ARCADIS Design & Consultancy for natural and built assets

RACER Trust

SEMI-ANNUAL DATA REPORT

First Half 2016

Former GM Delco Plant 5
Kokomo, Indiana

July 14, 2016

,

SEMI-ANNUAL DATA REPORT

First Half 2016

Former GM Delco Plant 5
Kokomo, Indiana

Sarah Jonker

Staff Environmental Scientist

Matthew Griles, L.P.G.

Project Geologist

Sarah Fisher

Senior Scientist

Prepared for:

Robert Hare

Cleanup Manager

RACER Trust

500 Woodward Avenue

Suite 2650

Detroit, MI 48226

Prepared by:

Arcadis

132 East Washington Street

Suite 600

Indianapolis, IN 46204

Our Ref.:

IN000884.2016.00007

Date:

July 14, 2016

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

CONTENTS

Introduction 2

1 Groundwater Trichloroethene Compound-Specific Isotope Analysis 2

2 Groundwater Gauging 4

3 Semi-Annual Groundwater Sampling Event 4

4 Summary and Conclusions 6

TABLES

Table 1. Groundwater Trichloroethene Compound-Specific Isotope Analytical Data Summary

Table 2. Groundwater Analytical Data Summary Screened against Drinking Water Criteria

Table 3. Monitoring Well Groundwater Elevation Data

Table 4. Off-Site Groundwater Analytical Data Summary Screened against Groundwater Vapor Intrusion Criteria

FIGURES

Figure 1. TCE Groundwater Compound-Specific Isotope Analytical Results (March 9, 2016)

Figure 2. Potentiometric Surface –S1 Unit (March 10, 2016)

Figure 3. Groundwater Elevations –S2 Unit (March 10, 2016)

Figure 4. Groundwater Volatile Organic Compound Analytical Results Screened with MCLs

Figure 5. TCE Groundwater Concentration Contours –S1 Unit (March 9 and March 30, 2016)

APPENDIX

A Groundwater Analytical Reports and Data Validation Reports (Provided on CD)

INTRODUCTION

Arcadis U.S. Inc. (Arcadis) has prepared this Semi-Annual Data Report on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust. This report summarizes the first half 2016 activities related to compound specific isotope analysis (CSIA) of trichloroethene (TCE) in groundwater, groundwater gauging, and groundwater sampling at the Former GM Delco Plant 5 in Kokomo, Indiana (the Site).

1 GROUNDWATER COMPOUND-SPECIFIC ISOTOPE ANALYSIS

On March 9, 2016, Arcadis collected groundwater samples for TCE CSIA at nine groundwater monitoring wells. CSIA was conducted primarily to provide a line of evidence to help determine if variability in the chemical composition of TCE and its degradation products observed during routine groundwater monitoring data at the Site was linked to unidentified TCE source areas. A secondary objective was to compare the degree of TCE degradation between sampling locations to assess if variability in attenuation processes may be contributing to anomalies in constituent compositions and temporal trends. Variability in TCE concentration trends between the western lobe, central zone, and eastern lobe of the plume area suggests the potential for contribution of different source areas to TCE impacts in groundwater, and/or different degrees of TCE degradation in different areas of the site (Arcadis 2015). An evaluation of the stable isotope composition of TCE is a direct way to assess if TCE concentrations across the site are related to potentially unidentified source areas and/or if TCE in different areas of the site has undergone more or less degradation.

At each monitoring well location, groundwater was purged at a low-flow rate until values of field parameters stabilized. Then, groundwater samples for the analysis of volatile organic compound (VOC) concentrations and the stable isotope composition of TCE were collected into appropriately preserved sampling containers. All containers were immediately sealed, labeled, placed in ice-packed coolers. Samples for analysis of VOC concentrations were transported to Pace Analytical Services (Pace), located in Indianapolis, Indiana, and samples for CSIA were shipped to the University of Oklahoma (OU) stable isotope laboratory following appropriate chain-of-custody procedures. A duplicate set of samples was collected at monitoring well MW-0517-S1. Low-flow sampling was used to collect VOC concentration samples at monitoring wells where CSIA was conducted because the typical sampling method used during semi-annual events, passive diffusion bags (PDBs), would not have yielded the volume of water required for determination of VOC concentrations and for CSIA.

Groundwater samples were analyzed for VOCs in accordance with the USEPA SW-846, Method 8260 at Pace. OU analyzed the stable carbon isotope composition of TCE in groundwater using gas chromatography/mass spectrometry (GC/MS). Results are reported in delta notation in parts per thousand (per mil, ‰), relative to the international standard Vienna Pee Dee Belemnite (VPDB). TCE carbon isotope analytical results for groundwater samples collected during the event are presented in Table 1 and on Figure 1. VOC analytical results for groundwater samples collected during the sampling event are

presented in Table 2. The laboratory analytical reports, along with the validation summaries, are provided in Appendix A.

The stable carbon isotope composition of TCE is generally expected to be a negative number as a result of the convention of comparing stable carbon isotope compositions against a global standard with a set carbon isotope ratio. Manufactured TCE is expected to have a stable carbon isotope composition in the range of approximately -33.6 to -25.5 ‰ (van Warmerdam et al. 1995). Where TCE is present as a residual separate phase in the subsurface, its composition is expected to be close to the manufactured range. As TCE dissolves into groundwater, it may start to degrade, resulting in a shift in the isotopic composition. For biodegradation, this shift in isotopic composition occurs because microorganisms preferentially degrade molecules of a compound that are relatively isotopically light (more-negative), as biodegradation occurs the TCE remaining in groundwater will gradually shift toward being more isotopically heavy (less-negative) than the source material. With distance downgradient:

- If biodegradation is limited, then the stable carbon isotope composition of TCE is expected to remain constant,
- If biodegradation is active, then the stable carbon isotope composition of TCE is expected to shift towards less-negative values.
- If there is a contribution from a separate TCE source, then the stable carbon isotope composition of TCE is expected to shift towards a more-negative value than that observed upgradient of the input.

During the March 2016 sampling event, TCE stable carbon isotope compositions in groundwater at the site were between -29.5 and -19.7 ‰ (Figure 1, Table 1). Groundwater samples for CSIA were collected at two monitoring wells located adjacent to known soil source areas; monitoring well MW-0622-S1 and MW-0101-S1U, as it is expected that these locations will most closely resemble the isotopic signature of TCE in site source areas. TCE stable carbon isotope compositions at these monitoring wells are within the range of manufactured TCE, at -26.7 ‰ (MW-0622.S1) and -29.5 ‰ (MW-0101-S1U). Less-negative stable carbon isotope compositions at monitoring wells MW-0102-S1U (-24.0 ‰), MW-0704-S1 (-19.7 ‰), and MW-0517-S1 (-21.4 ‰) indicate biodegradation of TCE. However, more-negative compositions at downgradient monitoring wells MW-0504-S1 (-25.9 ‰), MW-0606-S1 (-25.7 ‰), and MW-0612-S1 (-29.3 ‰) may indicate that:

- There are inputs of less-degraded TCE from unidentified source areas between upgradient monitoring wells with less-negative stable carbon isotope compositions and the monitoring locations where more-negative compositions were measured, and/or
- There are unidentified flow pathways through which TCE is transported from known source areas to these downgradient locations with less biodegradation than observed at monitoring locations with less-negative stable carbon isotope compositions

Overall, the results of the CSIA investigation suggest complex processes are driving the distribution of TCE in groundwater, and that these processes are not yet well understood. Additional investigation is recommended to develop a more robust conceptual site model (CSM) which can then be used to distinguish between the two possibilities for variability in the CSIA results.

2 GROUNDWATER GAUGING

On March 10, 2016, Arcadis measured the depth to groundwater at 60 monitoring wells located in the upper two sand and gravel units (S1 Unit and S2 Unit) at the Site. The groundwater gauging data presented in Table 3 were used to calculate groundwater elevations at each of the monitoring wells. The groundwater elevation contours in the S1 Unit are provided as Figure 2. Groundwater elevation contours are not provided for the S2 Unit due to the minimal gradient across the Site. The groundwater elevations in the S2 Unit are provided as Figure 3.

Potentiometric Data for S1 and S2 Units – March 2016		
Sand and Gravel Unit	**Potentiometric Surface Elevation (ft amsl)**	**General Gradient Direction**
S1	816.65 to 812.23	southeast
S2 (shallow gradient)	813.64 to 813.29	southwest

ft amsl = feet above mean sea level

Groundwater in both the S1 Unit and S2 Unit is confined by overlying clay till units. Groundwater flow directions within the S1 Unit and S2 Unit are consistent with previously observed groundwater contours and with those used in groundwater modeling previously performed by Arcadis. Arcadis will continue to evaluate the groundwater potentiometric surfaces and monitor flow directions for both the S1 Unit and S2 Unit through future gauging events.

3 SEMI-ANNUAL GROUNDWATER SAMPLING EVENT

On March 10, 2016, Arcadis deployed PDBs in 24 monitoring wells on and off site. Prior to deploying the PDBs, the depth to groundwater and a total depth of the monitoring wells were measured. Each PDB is connected to dedicated rope within the monitoring well to ensure placement in the center of the screen in the water column.. The PDBs were allowed to equilibrate inside each monitoring well for a 3-week period. On March 30, 2016, the PDBs were removed from the monitoring wells, and groundwater samples were collected through a dedicated straw directly into laboratory-supplied containers. All containers were immediately sealed, labeled, placed in an ice-packed cooler, and transported to Pace Analytical Services, located in Indianapolis, Indiana. The groundwater samples were analyzed for VOCs in accordance with the USEPA SW-846, Method 8260.

Monitoring well MW-0611-S1 was considered lost beneath gravel and debris since 2008. On April 15, 2016, Arcadis was able to locate and re-developed MW-0611-S1. On April 29, 2016, Arcadis collected a groundwater and duplicate sample at monitoring well MW-0611-S1 using low-flow methodologies. All containers were immediately sealed, labeled, placed in an ice-packed cooler, and transported to Pace Analytical Services, located in Indianapolis, Indiana. The groundwater samples were analyzed for VOCs in accordance with the USEPA SW-846, Method 8260.

VOC analytical results for groundwater samples collected during the reporting period are presented in Table 2. Only analytes that have been detected at concentrations higher than the laboratory reporting limits during one or more monitoring events are presented in Table 2 and include:

- 1,1,1-trichloroethane (1,1,1-TCA)
- 1,1-dichloroethane (1,1-DCA)
- 1,1-dichloroethene (1,1-DCE)
- Benzene
- Chloroform
- cis-1,2-dichloroethene (DCE)
- Cyclohexane
- Methylene chloride
- Tetrachloroethene (PCE)
- Toluene
- trans-1,2-dichloroethene (trans-1,2-DCE)
- TCE
- Vinyl chloride

The analytical results were compared to Drinking Water Screening Criteria (Maximum Contaminant Levels [MCLs] or the Indiana Department of Environmental Management [IDEM] Remediation Closure Guide [RCG] Tap Water Criteria, where MCLs are not established). The analytical results are presented on Figure 4. Only analytes that have been detected at concentrations higher than the laboratory reporting limits during one or more monitoring events are presented in the databoxes on Figure 4.

Based on the groundwater data collected during the first half 2016, 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; TCE; and vinyl chloride were detected at concentrations higher than their respective Drinking Water Screening Criteria in one or more groundwater samples. TCE was detected in groundwater at concentrations higher than the Drinking Water Screening Criteria (5 micrograms per liter [µg/L]) in the following monitoring wells: MW-0101-S1U, MW-0102-S1U, MW-0103-S1U, MW-0504-S1, MW-0507-S1, MW-0517-S1, MW-0604-S1, MW-0605-S1, MW-0606-S1, MW-0609-S1, MW-0612-S1, MW-0620-S1, MW-0621-S1, MW-0622-S1, MW-0704-S1, and MW-0705-S1. Figure 5 presents isoconcentration contours for TCE in the S1 Unit. The laboratory analytical reports, along with the validation summaries, are provided in Appendix A.

Off-site groundwater analytical results were compared to site-specific Groundwater Vapor Intrusion Screening Criteria, as presented in Table 4. These criteria have been established for two conditions off site:

- Off-site Residential
- Off-site Commercial/Industrial

TCE concentrations in groundwater exceeded both the site-specific Groundwater Vapor Intrusion Screening Criteria for Off-site Residential and Off-site Commercial/Industrial (1,540 µg/L and 2,150 µg/L) at monitoring well MW-0612-S1, and the site-specific Vapor Intrusion Screening Criteria for Off-site Residential at monitoring well MW-0606-S1. No other constituents exceeded the Groundwater Vapor Intrusion Screening Criteria.

4 SUMMARY AND CONCLUSIONS

During the first half of 2016, a sampling event was conducted to assess the stable carbon isotope composition of TCE in groundwater. Results from this event indicate that TCE biodegradation is occurring, but the patterns observed indicate that complexity in the groundwater system that is not fully explained by the current CSM. CSIA results suggest a number of possibilities for variability in TCE concentrations, including the presence of unidentified TCE sources contributing to the downgradient plume or unidentified flow pathways in which less biodegradation of TCE occurs. Additional investigation may be warranted to develop a more robust CSM and gain a better understand TCE sources, and VOC fate and transport.

During the March 2016 groundwater sampling event, concentrations of site-specific constituents of concern were higher than the Drinking Water Screening Criteria in 17 of the 33 groundwater monitoring wells sampled. The TCE concentration detected in groundwater from monitoring well MW-0612-S1 exceeded both the site-specific Groundwater Vapor Intrusion Screening Criteria for Off-site Residential and Off-site Commercial/Industrial. The TCE concentration detected in groundwater from monitoring well MW-0606-S1 exceeded the site-specific Vapor Intrusion Screening Criteria for Off-site Residential. These screening criteria were calculated following an approach described in the IDEM 2013 Remediation Closure Guide (RCG) and detailed in the Risk Assessment Addendum to CMP Amendment (Arcadis 2014).

A semi-annual groundwater sampling event will be conducted during the second half of 2016 to evaluate existing conditions. RACER Trust will continue to evaluate Site conditions to refine the CSM and determine a path to closure.

5 REFERENCES

Arcadis. 2014. Risk Assessment Addendum to CMP Amendment. Former GM Delco Plant 5, Kokomo, Indiana. June, 2014

Arcadis. 2015. Natural Attenuation Evaluation Memorandum. Former GM Delco Plant 5, Kokomo, Indiana. January, 2015

van Warmerdam, E., Frape, S., Aravena, R., Drimmie, R., Flatt, H., and Cherry, J. 1995. Stable Chlorine and Carbon Isotope Measurements of Selected Chlorinated Organic Solvents. Applied Geochemistry. 10:547-552.

TABLES

Table 1
Trichloroethene Stable Carbon Isotope Composition
Former GM Delco Plant 5
Kokomo, Indiana

Well ID	TCE[1]	δ13C-TCE
	µg/L	‰
MW-0101-S1U	6560	-29.5
MW-0102-S1U	2360	-24
MW-0504-S1	1820	-25.9
MW-0517-S1[2]	3645	-21.4
MW-0606-S1	1960	-25.7
MW-0612-S1	2380	-29.3
MW-0621-S1	3030	-28.5
MW-0622-S1	9610	-26.7
MW-0704-S1	1370	-19.7

Abbreviations:

TCE= trichloroethene

µg/L = micrograms per liter

‰ = parts per thousand (per mil)

Notes:

1. Concentration samples collected concurrently with isotope samples on March 9, 2016 and analyzed by EPA Method 8260 between March 17-21, 2016.

2. Concentration is the average of parent sample and field duplicate results. Isotope result of parent and duplicate are equivalent.

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0101-S1U	6/22/2001	MW-1M~06/22/2001~N~LB	Low-Flow	< 50 U	< 50 U	< 50 U	--	< 200 U	800	--	< 100 U	< 50 U	--	< 50 U	3,100	67
MW-0101-S1U	11/15/2004	MW-1M (111504)~RE	Low-Flow	< 5.0 U	< 5.0 U	14	< 5.0 U	< 5.0 U	1,300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	73	11,000	150
MW-0101-S1U	11/15/2004	FD-1 (111504)~RE	Low-Flow	< 5.0 U	< 5.0 U	13	< 5.0 U	< 5.0 U	1,600	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	69	13,000	140
MW-0101-S1U	3/24/2006	MW-0101-S1U (032406)	Low-Flow	< 5.0 U	14	7.0	2.4 J	< 5.0 U	1,200	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	68	9,400	67
MW-0101-S1U	11/10/2006	MW-0101-S1U (111006)	Low-Flow	< 5.0 U	12	9.4	2.3 J	< 5.0 U	1,100	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	73	7,700	100
MW-0101-S1U	11/10/2006	FD-1 (111006)-BDS	Low-Flow	< 5.0 U	12	9.3	2.3 J	< 5.0 U	1,100	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	72	7,500	100
MW-0101-S1U	4/19/2012	MW-0101-S1U (041912)-PDB	PDB	< 5.0 U	< 5.0 U	20.4	< 5.0 U	< 5.0 U	688 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	56.6	13,500 D	66.3
MW-0101-S1U	4/19/2012	MW-0101-S1U (041912)-LF	Low-Flow	< 5.0 U	< 5.0 U	8.5	< 5.0 U	< 5.0 U	673 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	62.0	5,390 D	77.1
MW-0101-S1U	4/19/2012	FD-2 (041912)-BC	Low-Flow	< 5.0 U	< 5.0 U	8.1	< 5.0 U	< 5.0 U	712 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	63.4	4,550 D	83.0
MW-0101-S1U	4/19/2012	FD-1 (041912)-TP	PDB	< 5.0 U	< 5.0 U	20.3	< 5.0 U	< 5.0 U	748 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	57.7	13,500 D	69.0
MW-0101-S1U	10/31/2012	MW-0101-S1U(103112)PDB	PDB	< 5.0 U	2.8 J	11.4	2.1 J	< 5.0 U	847 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	67.5	8,500 D	86.7
MW-0101-S1U	10/31/2012	MW-0101-S1U(103112)LF	Low-Flow	< 5.0 U	3.4 J	6.2	1.9 J	< 5.0 U	819 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	70.8	3,430 D	88.7
MW-0101-S1U	4/2/2013	MW-0101-S1U (040213)PDB	PDB	< 5.0 U	4.9 J	15.8 J	1.4 J	< 5.0 U	1,180 EJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	70.6 J	10,600 EJ	52.4
MW-0101-S1U	10/16/2013	MW-0101-S1U(101613)	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	2,990 D	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	66.1	6,920 D	55.8
MW-0101-S1U	5/13/2014	MW-0101-S1U(051314)	PDB	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	1,240	< 1,000 U	< 50.0 U	< 50.0 U	< 50.0 U	49.0 J	11,200 D	50.0
MW-0101-S1U	9/25/2014	MW-0101-S1U(092514)PDB	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	1,030	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	53.6	18,100 DJ	31.9
MW-0101-S1U	3/31/2015	MW-0101-S1U(033115)-PDB	PDB	< 25.0 U	4.2 J	8.0 J	< 25.0 UB	< 25.0 U	1,060	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	56.1	17,900 D	32.8
MW-0101-S1U	9/30/2015	MW-0101-S1U(093015)PDB	PDB	< 5.0 U	2.7 J	19.8	2.9 J	< 5.0 U	3,160 D	< 100 U	< 5.0 U	< 5.0 U	0.44 J	114	5,200 D	75.6
MW-0101-S1U	3/9/2016	MW-0101-S1U(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	1,020	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	62.0	6,560 D	59.3
MW-0102-S1U	6/22/2001	MW-2~06/22/2001~N~LB	Low-Flow	< 50 U	< 50 U	< 50 U	--	< 200 U	340	--	< 100 U	< 50 U	--	< 50 U	370	< 20 U
MW-0102-S1U	6/22/2001	MW-2 DUP~06/22/2001~N~LB	Low-Flow	< 50 U	< 50 U	< 50 U	--	< 200 U	360	--	< 100 U	< 50 U	--	< 50 U	410	< 20 U
MW-0102-S1U	11/15/2004	MW-2 (111504)~RE	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	770	< 5.0 U	< 9.5 U	< 5.0 U	< 5.0 U	74	4,600	37
MW-0102-S1U	10/20/2005	MW-2-IU (102005)	Low-Flow	< 5.0 U	< 5.0 U	5.1	< 5.0 U	< 5.0 U	770	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	68	3,800	21
MW-0102-S1U	3/22/2006	MW-0102-S1U (032206)	Low-Flow	< 5.0 U	< 5.0 U	4.5 J	< 5.0 U	< 5.0 U	1,000	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	88	4,800	21
MW-0102-S1U	4/19/2012	MW-0102-S1U (041912)-PDB	PDB	< 5.0 U	< 5.0 U	5.9	< 5.0 U	< 5.0 U	948 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	108	3,970 D	35.1
MW-0102-S1U	4/19/2012	MW-0102-S1U (041912)-LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	563 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	85.9	2,380 D	21.2
MW-0102-S1U	10/31/2012	MW-0102-S1U(103112)PDB	PDB	< 5.0 U	< 5.0 U	3.9 J	< 5.0 U	< 5.0 U	916 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	114	3,770 D	35.3
MW-0102-S1U	4/2/2013	MW-0102-S1U (040213)PDB	PDB	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	847 EJ	< 100 U	3.9 J	< 5.0 U	< 5.0 U	103	3,370 EJ	21.5
MW-0102-S1U	10/16/2013	MW-0102-S1U(101613)	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	988	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	105	3,870 D	6.5 J
MW-0102-S1U	5/13/2014	MW-0102-S1U (051314)	PDB	< 5.0 U	< 5.0 U	4.9 J	< 5.0 U	< 5.0 U	826 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	103	2,910 D	21.8
MW-0102-S1U	9/25/2014	MW-0102-S1U(092514)PDB	PDB	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	907 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	75.2	2,950 D	17.4
MW-0102-S1U	3/31/2015	MW-0102-S1U(033115)-PDB	PDB	< 25.0 U	< 25.0 U	2.8 J	< 25.0 U	< 25.0 U	867	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	82.8	2,470 D	12.9
MW-0102-S1U	9/30/2015	MW-0102-S1U(093015)PDB	PDB	< 5.0 U	4.4 J	6.5	< 5.0 U	< 5.0 U	1,280 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	125	4,440 D	28.6
MW-0102-S1U	3/9/2016	MW-0102-S1U(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	1,010	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	114	2,360 D	17.0
MW-0103-S1U	6/22/2001	MW-3~06/22/2001~N~LB	Low-Flow	< 5.0 U	< 5.0 U	17	--	< 20 U	71	--	< 10 U	< 5.0 U	--	18	12	2.2
MW-0103-S1U	11/15/2004	MW-3 (111504)~RE	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	110	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	25	< 5.0 U	< 2.0 U
MW-0103-S1U	3/22/2006	MW-0103-S1U (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	150	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	37	13	< 2.0 U
MW-0103-S1U	6/24/2009	MW-0103-S1U (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	264	< 100 U	< 5 U	< 5 U	< 5 U	34.8	< 5 U	3.9
MW-0103-S1U	10/31/2012	MW-0103-S1U(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 2.0 U
MW-0103-S1U	4/2/2013	MW-0103-S1U (040213)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.1 J	< 100 U	2.9 J	< 5.0 U	< 5.0 U	< 5.0 U	40.4 J	< 2.0 U
MW-0103-S1U	10/16/2013	MW-0103-S1U(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	14.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.0	< 2.0 U
MW-0103-S1U	5/13/2014	MW-0103-S1U (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.6 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.8	< 2.0 U
MW-0103-S1U	9/25/2014	MW-0103-S1U(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	11.5	< 2.0 U
MW-0103-S1U	3/31/2015	MW-0103-S1U(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	0.39 J	< 5.0 U	< 5.0 U	< 5.0 U	0.31 J	6.7	< 2.0 U
MW-0103-S1U	9/30/2015	MW-0103-S1U(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	293	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	22.4	1.8 J	1.4 J
MW-0103-S1U	3/30/2016	MW-0103-S1U(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.6	< 100 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	5.3	< 2.0 UJ
MW-0501-P1	10/18/2005	MW-0501-1L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.0	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-P1	3/22/2006	MW-0501-P1 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.3 J	6.8
MW-0501-S1	3/22/2006	MW-0501-S1 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.4 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	11/7/2006	MW-0501-S1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	6/25/2009	MW-0501-S1-LF (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0501-S1	6/25/2009	MW-0501-S1 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0501-S1	5/5/2010	MW-0501-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0501-S1	10/28/2010	MW-0501-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	5/13/2011	MW-0501-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.8	0.66 J	< 1.0 U	< 1.0 U	< 1.0 U	0.20 J	< 1.0 U	< 1.0 U
MW-0501-S1	10/18/2011	MW-0501-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	10/31/2012	MW-0501-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	4/2/2013	MW-0501-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.7 J	< 2.0 U
MW-0501-S1	10/16/2013	MW-0501-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.8 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	5/13/2014	MW-0501-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.0 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	9/25/2014	MW-0501-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.5 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.4	< 2.0 U
MW-0501-S1	3/31/2015	MW-0501-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.36 J	< 2.0 U
MW-0501-S1	9/30/2015	MW-0501-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.6 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S1	3/30/2016	MW-0501-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 UJ
MW-0501-S2	10/18/2005	MW-0501-2L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S2	3/21/2006	MW-0501-S2 (032106)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	26	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.2 J	< 2.0 U
MW-0501-S2	6/24/2009	MW-0501-S2 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0501-S2	5/5/2010	MW-0501-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0501-S2	10/28/2010	MW-0501-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0501-S2	5/13/2011	MW-0501-S2(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.67 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0501-S2	10/18/2011	MW-0501-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S3U	10/20/2005	MW-0501-3L (102005)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.9	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S3U	3/21/2006	MW-0501-S3U (032106)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	73	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0501-S3U	6/24/2009	MW-0501-S3U (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0502-S1	10/19/2005	MW-0502-1L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	9.9	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	84	< 2.0 U
MW-0502-S1	3/24/2006	MW-0502-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	15	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	4.8 J	190	< 2.0 U
MW-0502-S1	11/10/2006	MW-0502-S1 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	18	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.7	180	< 2.0 U
MW-0502-S1	10/31/2012	MW-0502-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 2.0 U
MW-0502-S1	10/16/2013	MW-0502-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0502-S1	5/13/2014	MW-0502-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0502-S1	9/25/2014	MW-0502-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0502-S1	3/31/2015	MW-0502-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	0.36 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	< 2.0 U
MW-0502-S1	9/30/2015	MW-0502-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0502-S1	3/30/2016	MW-0502-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/14/2008	MW-0503-B1A (140-150)(111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	10.8 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/17/2008	MW-0503-B1A (132-142)(111708)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/18/2008	MW-0503-B1A (92-102)(111808)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	29.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/18/2008	MW-0503-B1A (122-132)(111808)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/18/2008	MW-0503-B1A (112-122)(111808)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/18/2008	MW-0503-B1A (102-112)(111808)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-B1a	11/19/2008	MW-0503-B1A (85-95)(111908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	30.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	10/18/2005	MW-0503-1L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	3/24/2006	MW-0503-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	6/25/2009	MW-0503-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0503-S1	10/31/2012	MW-0503-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	4/2/2013	MW-0503-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	2.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	10/16/2013	MW-0503-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	5/13/2014	MW-0503-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	9/25/2014	MW-0503-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	3/31/2015	MW-0503-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.63 J	< 2.0 U
MW-0503-S1	9/30/2015	MW-0503-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S1	3/30/2016	MW-0503-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S2	10/18/2005	MW-0503-2L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.6	9.9	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0503-S2	3/24/2006	MW-0503-S2 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.8	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	1.3 J	< 2.0 U
MW-0503-S2	6/24/2009	MW-0503-S2 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	8.4	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0504-I2	10/18/2005	MW-0504-2L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	15	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	17	< 2.0 U
MW-0504-I2	3/27/2006	MW-0504-I2 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	26	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	6.0	< 2.0 U
MW-0504-S1	10/18/2005	MW-0504-1L (101805)	Low-Flow	< 5.0 U	13	5.8	< 5.0 U	< 5.0 U	660	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	62	1,500	16
MW-0504-S1	3/27/2006	MW-0504-S1 (032706)	Low-Flow	< 5.0 U	15	4.2 J	< 5.0 U	< 5.0 U	1,200	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	90	1,400	23
MW-0504-S1	11/20/2006	MW-0504-S1 (112006)	Direct Fill	< 5.0 U	10	4.0 J	< 5.0 U	< 5.0 U	700	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	91	1,400	17
MW-0504-S1	10/31/2012	MW-0504-S1(103112)PDB	PDB	< 5.0 U	7.6	4.7 J	< 5.0 U	< 5.0 U	1,030 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	132	3,040 D	20.9
MW-0504-S1	4/2/2013	MW-0504-S1 (040213) PDB	PDB	< 5.0 U	9.9	6.4	1.1 J	< 5.0 U	1,120 EJ	< 100 U	6.5	< 5.0 U	< 5.0 U	188 EJ	3,370 EJ	25.2
MW-0504-S1	10/16/2013	MW-0504-S1(101613)	PDB	< 5.0 U	10.4	6.3	< 5.0 U	< 5.0 U	1,020 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	175	3,240 D	22.9
MW-0504-S1	5/13/2014	MW-0504-S1 (051314)	PDB	< 5.0 U	7.8	6.4	< 5.0 U	< 5.0 U	826 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	154	2,740 D	24.4
MW-0504-S1	9/25/2014	MW-0504-S1(092514)PDB	PDB	< 5.0 U	4.8 J	3.2 J	< 5.0 U	< 5.0 U	749 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	109	2,540 D	14.7
MW-0504-S1	3/31/2015	MW-0504-S1(033115)-PDB	PDB	< 5.0 U	8.9	5.2	< 5.0 UB	< 5.0 U	909 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	183	3,010 D	24.1
MW-0504-S1	9/30/2015	MW-0504-S1(093015)PDB	PDB	< 5.0 U	9.5	5.9	0.91 J	< 5.0 U	923 D	0.52 J	< 5.0 U	< 5.0 U	0.13 J	179	3,000 D	19.4
MW-0504-S1	3/9/2016	MW-0504-S1(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	571	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	92.2	1,820 D	8.9 J
MW-0504-S2	3/27/2006	MW-0504-S2 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	49	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	1.2 J	< 5.0 U	1.5 J	< 2.0 U
MW-0504-S2	11/7/2006	MW-0504-S2 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20	100	< 2.0 U
MW-0505-B1	11/13/2006	MW-0505-B1 (111306)	Direct push	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-B1	11/13/2008	MW-0505-B1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-B1	5/5/2010	MW-0505-B1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0505-B1	10/28/2010	MW-0505-B1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-B1	5/13/2011	MW-0505-B1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.6	0.59 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0505-B1	10/18/2011	MW-0505-B1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-S1	10/19/2005	MW-0505-1L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	25	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	31	< 2.0 U
MW-0505-S1	10/19/2005	FD-3 (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	24	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	29	< 2.0 U
MW-0505-S1	3/23/2006	MW-0505-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	19	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	6.0	< 2.0 U
MW-0505-S1	6/24/2009	MW-0505-S1 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	7.9	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0505-S1	10/31/2012	MW-0505-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 2.0 U
MW-0505-S1	9/25/2014	MW-0505-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-S1	3/31/2015	MW-0505-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.75 J	< 2.0 U
MW-0505-S1	9/30/2015	MW-0505-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.33 J	< 2.0 U

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0505-S1	3/30/2016	MW-0505-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-S2	10/19/2005	MW-0505-2L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-S2	3/23/2006	MW-0505-S2 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0505-S2	6/24/2009	MW-0505-S2 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0506-I2	10/19/2005	MW-0506-2L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-I2	3/27/2006	MW-0506-I2 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.6 J	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	4.3 J	< 2.0 U
MW-0506-S1	10/19/2005	MW-0506-1L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	1/3/2006	MW-0506-1L (01/03/06)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	3/27/2006	MW-0506-S1 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	3/27/2006	FD-1 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	1.6 J	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	6/24/2009	MW-0506-S1 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	13.9	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	7.2	< 2 U
MW-0506-S1	10/31/2012	MW-0506-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.4	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	10/31/2012	FD-3(103112)LF-WK	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	646 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	72.8	453 D	< 2.0 U
MW-0506-S1	10/31/2012	FD-1(103112)PDB-JG	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.6 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	4/2/2013	MW-0506-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	13.3 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	36.3 J	< 2.0 U
MW-0506-S1	10/16/2013	MW-0506-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.4 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	5/13/2014	MW-0506-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	9/25/2014	MW-0506-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	3/31/2015	MW-0506-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.5 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.37 J	< 2.0 U
MW-0506-S1	9/30/2015	MW-0506-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.2 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S1	3/30/2016	MW-0506-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0506-S2	10/19/2005	MW-0506-3L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	470	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	44	630	< 2.0 U
MW-0506-S2	1/3/2006	MW-0506-2L (01/03/06)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	540	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	48	650	< 2.0 U
MW-0506-S2	3/27/2006	MW-0506-S2 (032706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	620	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	50	670	< 2.0 U
MW-0506-S2	6/24/2009	MW-0506-S2 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	634	< 100 U	< 5 U	< 5 U	< 5 U	80.5	445	3.1
MW-0506-S2	4/19/2012	MW-0506-S2 (041912)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	520 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	67.1	583 D	< 2.0 U
MW-0506-S2	4/19/2012	MW-0506-S2 (041912)-LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	565 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	68.5	585 D	< 2.0 U
MW-0506-S2	10/31/2012	MW-0506-S2(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	636 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	34.7	233	< 2.0 U
MW-0506-S2	10/31/2012	MW-0506-S2(103112)LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	635 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	69.7	433 D	< 2.0 U
MW-0507-S1	10/19/2005	MW-0507-1L (101905)	Low-Flow	9.0	39	< 5.0 U	< 5.0 U	< 5.0 U	83	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	16	< 2.0 U
MW-0507-S1	3/27/2006	MW-0507-S1 (032706)	Low-Flow	21	190	< 5.0 U	< 5.0 U	< 5.0 U	310	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	6.0	52	< 2.0 U
MW-0507-S1	10/31/2012	MW-0507-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.7 J	< 2.0 U
MW-0507-S1	4/2/2013	MW-0507-S1 (040213) PDB	PDB	4.1 J	8.3	< 5.0 U	< 5.0 U	< 5.0 U	27.6	< 100 U	4.2 J	< 5.0 U	< 5.0 U	< 5.0 U	10.1 J	< 2.0 U
MW-0507-S1	10/16/2013	MW-0507-S1(101613)	PDB	4.5 J	6.6	< 5.0 U	< 5.0 U	< 5.0 U	19.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.9 J	< 2.0 U
MW-0507-S1	5/13/2014	MW-0507-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.2 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0507-S1	9/25/2014	MW-0507-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.8 J	< 2.0 U
MW-0507-S1	3/31/2015	MW-0507-S1(033115)-PDB	PDB	6.8	15.3	< 5.0 U	< 5.0 U	< 5.0 U	60.0	< 100 U	< 5.0 U	1.4 J	< 5.0 U	1.1 J	5.6	< 2.0 U
MW-0507-S1	9/30/2015	MW-0507-S1(093015)PDB	PDB	17.7	27.7	< 5.0 U	< 5.0 U	< 5.0 U	83.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	1.8 J	3.7 J	< 2.0 U
MW-0507-S1	3/30/2016	MW-0507-S1(033016)PDB	PDB	14.7	24.4	< 5.0 U	< 5.0 U	< 5.0 U	75.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.1	< 2.0 U
MW-0509-I2	10/19/2005	MW-0509-2L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-I2	10/19/2005	FD-1 (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-I2	3/23/2006	MW-0509-I2 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	10/19/2005	MW-0509-1L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	3/23/2006	MW-0509-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	6/24/2009	MW-0509-S1 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0509-S1	10/31/2012	MW-0509-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	4/2/2013	MW-0509-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	< 2.0 U
MW-0509-S1	10/16/2013	MW-0509-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	5/13/2014	MW-0509-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	9/25/2014	MW-0509-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0509-S1	3/31/2015	MW-0509-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.56 J	< 2.0 U
MW-0509-S1	9/30/2015	MW-0509-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.53 J	< 2.0 U
MW-0509-S1	3/30/2016	MW-0509-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	10/19/2005	MW-0516-2L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/23/2006	MW-0516-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	6/25/2009	MW-0516-S1 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	6/25/2009	MW-0516-S1 (062509)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	5/5/2010	MW-0516-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	5/6/2010	MW-0516-S1 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	10/28/2010	MW-0516-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	5/13/2011	MW-0516-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.65 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0516-S1	10/18/2011	MW-0516-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	10/31/2012	MW-0516-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	4/2/2013	MW-0516-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	10/16/2013	MW-0516-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	5/13/2014	MW-0516-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	9/25/2014	MW-0516-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0516-S1	3/31/2015	MW-0516-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.56 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.26 J	< 2.0 U
MW-0516-S1	9/30/2015	MW-0516-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/30/2016	MW-0516-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/30/2016	FD-1(033016)-LM	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S2	10/20/2005	MW-0516-3L (102005)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S2	3/23/2006	MW-0516-S2 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S2	6/25/2009	MW-0516-S2 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0517-I2	10/18/2005	MW-0517-2L (101805)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.4	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0517-I2	3/22/2006	MW-0517-I2 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0517-S1	10/18/2005	MW-0517-1L (101805)	Low-Flow	< 5.0 UJ	8.4 J	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	370 J	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	42 J	690 J	15 J
MW-0517-S1	3/22/2006	MW-0517-S1 (032206)	Low-Flow	< 5.0 U	10	2.7 J	1.7 J	< 5.0 U	900	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	65	1,800	30
MW-0517-S1	10/31/2012	MW-0517-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	37.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	18.8	103	< 2.0 U
MW-0517-S1	4/2/2013	MW-0517-S1 (040213) PDB	PDB	< 5.0 U	6.1	3.0 J	1.8 J	< 5.0 U	572 EJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	80.4	6,270 EJ	1.9 J
MW-0517-S1	4/2/2013	FD-1 (040213) JG	PDB	< 5.0 U	6.1	2.8 J	1.7 J	< 5.0 U	593 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	77.4	6,440 D	1.6 J
MW-0517-S1	10/16/2013	MW-0517-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	270 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	65.1	2,010 D	3.0
MW-0517-S1	10/16/2013	FD-1(101613)-WK	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	322 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	68.7	2,570 D	3.1
MW-0517-S1	5/13/2014	MW-0517-S1(051314)	PDB	< 5.0 U	4.3 J	< 5.0 U	1.1 J	< 5.0 U	582 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	84.5	2,830 D	2.7
MW-0517-S1	5/13/2014	FD-1(051314)	PDB	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	505	< 1,000 U	< 50.0 U	< 50.0 U	< 50.0 U	58.6	4,240 D	< 20.0 U
MW-0517-S1	9/25/2014	MW-0517-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	303 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	62.3	2,200 D	2.4
MW-0517-S1	3/31/2015	MW-0517-S1(033115)-PDB	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 UB	< 25.0 U	512	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	70.9	2,940 D	4.7 J
MW-0517-S1	3/31/2015	FD-1(033115)-AO-PDB	PDB	< 25.0 U	2.0 J	< 25.0 U	< 25.0 U	< 25.0 U	478	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	67.7	2,550 D	3.9 J
MW-0517-S1	9/30/2015	MW-0517-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	78.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	44.8	346 D	< 2.0 U
MW-0517-S1	9/30/2015	FD-1(093015)-CK	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	80.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	44.5	312 D	< 2.0 U
MW-0517-S1	3/9/2016	MW-0517-S1(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	600	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	74.3	3,570 D	< 10.0 U
MW-0517-S1	3/9/2016	FD-01(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	601	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	72.0	3,720 D	< 10.0 U
MW-0602-B1	3/24/2006	MW-0602-B1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	300	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	24	< 5.0 U	< 2.0 U
MW-0602-B1	11/7/2006	MW-0602-B1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	300	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	29	< 5.0 U	1.6 J
MW-0602-B1	6/26/2009	MW-0602-B1 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	13.1	83.7	< 100 U	< 5 U	< 5 U	< 5 U	6.9	< 5 U	< 2 U
MW-0602-S1	3/24/2006	MW-0602-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	11/7/2006	MW-0602-S1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	10/31/2012	MW-0602-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	10/16/2013	MW-0602-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	5/13/2014	MW-0602-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	9/25/2014	MW-0602-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	3/30/2016	MW-0602-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-B1	3/24/2006	MW-0603-B1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	730	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	44	20	< 2.0 U
MW-0603-B1	11/8/2006	MW-0603-B1 (110806)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	620	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	39	< 5.0 U	2.0
MW-0603-B1	6/25/2009	MW-0603-B1 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	557	< 100 U	< 5 U	< 5 U	< 5 U	77.4	< 5 U	3.6
MW-0603-B1	6/25/2009	MW-0603-B1 (062509)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	545	< 100 U	< 5 U	< 5 U	< 5 U	79.2	< 5 U	< 2 U
MW-0603-S1	3/24/2006	MW-0603-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	11/8/2006	MW-0603-S1 (110806)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	6/25/2009	MW-0603-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S1	5/5/2010	MW-0603-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S1	10/28/2010	MW-0603-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	5/13/2011	MW-0603-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0603-S1	10/18/2011	MW-0603-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	10/31/2012	MW-0603-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	10/16/2013	MW-0603-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	5/13/2014	MW-0603-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	9/25/2014	MW-0603-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	3/31/2015	MW-0603-S1(033115)-AO-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.36 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	9/30/2015	MW-0603-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.27 J	< 2.0 U
MW-0603-S1	3/30/2016	MW-0603-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S2	3/24/2006	MW-0603-S2 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	270	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	8.6	< 5.0 U	< 2.0 U
MW-0603-S2	11/8/2006	MW-0603-S2 (110806)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	270	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.7	< 5.0 U	2.0
MW-0603-S2	6/25/2009	MW-0603-S2 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	293	< 100 U	< 5 U	< 5 U	< 5 U	11.5	< 5 U	< 2 U
MW-0603-S2	5/5/2010	MW-0603-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	65.7	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S2	5/5/2010	FD-1 (050510)-TP	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	68.7	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S2	5/6/2010	MW-0603-S2 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	291	< 100 U	< 5 U	< 5 U	< 5 U	10.6	< 5 U	< 2 U
MW-0603-S2	10/28/2010	MW-0603-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	74.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S2	5/13/2011	MW-0603-S2(051311)	PDB	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	69	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.2	< 1.7 U	0.79 J
MW-0603-S2	5/13/2011	FD-(051311)-EG	PDB	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	64	< 1.7 U	< 1.7 U	< 1.7 U	< 1.7 U	2.2	< 1.7 U	< 1.7 U
MW-0603-S2	10/18/2011	MW-0603-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	61.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S2	10/18/2011	FD-1(101811)-EG	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	60.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0604-S1	3/22/2006	MW-0604-S1 (032206)	Low-Flow	< 5.0 U	11	7.9	< 5.0 U	< 5.0 U	1,400	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	120	4,900	43
MW-0604-S1	11/8/2006	MW-0604-S1 (110806)	Low-Flow	< 5.0 U	6.5	5.4	< 5.0 U	< 5.0 U	600	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	76	2,700	31

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0604-S1	10/31/2012	MW-0604(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	59.5	< 2.0 U
MW-0604-S1	4/2/2013	MW-0604-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	2.8 J	< 5.0 U	< 5.0 U	698 EJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	76.4 J	2,720 EJ	36.2 J
MW-0604-S1	10/16/2013	MW-0604-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	368 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	43.1	1,100 D	19.4
MW-0604-S1	5/13/2014	MW-0604-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	271	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	27.2	747 D	16.2
MW-0604-S1	9/25/2014	MW-0604-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	414 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	51.5	1,410 D	24.8
MW-0604-S1	9/25/2014	FD-1(092514)-AO	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	489 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	39.7	1,480 D	20.3
MW-0604-S1	3/31/2015	MW-0604-S1(033115)-PDB	PDB	< 5.0 U	2.6 J	3.5 J	< 5.0 UB	< 5.0 U	878 D	0.65 J	< 5.0 U	< 5.0 U	< 5.0 U	112	2,690 D	57.6
MW-0604-S1	9/30/2015	MW-0604-S1(093015)PDB	PDB	< 5.0 U	0.98 J	1.5 J	< 5.0 U	< 5.0 U	353 D	0.37 J	< 5.0 U	< 5.0 U	< 5.0 U	52.7	1,240 D	12.5
MW-0604-S1	3/30/2016	MW-0604-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1,030 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	97.2	3,340 D	37.7
MW-0604-S2	3/22/2006	MW-0604-S2 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	39	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20	100	< 2.0 U
MW-0604-S2	11/9/2006	MW-0604-S2 (110906)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	60	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	10	27	< 2.0 U
MW-0604-S2	6/24/2009	MW-0604-S2 (062409)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	94.6	< 100 U	< 5 U	< 5 U	< 5 U	8.9	< 5 U	< 2 U
MW-0605-B1	3/22/2006	MW-0605-B1 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	11	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0605-B1	11/9/2006	MW-0605-B1 (110906)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0605-S1	3/22/2006	MW-0605-S1 (032206)	Low-Flow	< 5.0 U	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	19	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	920	< 2.0 U
MW-0605-S1	11/9/2006	MW-0605-S1 (110906)	Low-Flow	< 5.0 U	3.2 J	< 5.0 U	< 5.0 U	< 5.0 U	26	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1,400	< 2.0 U
MW-0605-S1	10/31/2012	MW-0605(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	15.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1,480 D	< 2.0 U
MW-0605-S1	4/2/2013	MW-0605-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	16.9 J	< 100 U	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	1,180 EJ	< 2.0 U
MW-0605-S1	10/16/2013	MW-0605-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	17.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1,580 D	< 2.0 U
MW-0605-S1	5/13/2014	MW-0605-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	14.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2,630 D	< 2.0 U
MW-0605-S1	12/1/2014	MW-0605-S1(120114)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	12.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	629 D	< 2.0 U
MW-0605-S1	3/31/2015	MW-0605-S1(033115)-PDB	PDB	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	< 5.0 U	12.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	1.0 J	983 D	< 2.0 U
MW-0605-S1	9/30/2015	MW-0605-S1(093015)PDB	PDB	< 5.0 U	2.8 J	< 5.0 U	< 5.0 U	< 5.0 U	16.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	1.4 J	1,210 D	< 2.0 U
MW-0605-S1	3/30/2016	MW-0605-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	14.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	742 D	< 2.0 U
MW-0605-S2	3/22/2006	MW-0605-S2 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	49	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.1	21	< 2.0 U
MW-0605-S2	3/22/2006	FD-1 (032206)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	50	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	7.4	27	< 2.0 U
MW-0605-S2	11/9/2006	MW-0605-S2 (110906)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	100	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.8	< 5.0 U	< 2.0 U
MW-0606-S1	3/23/2006	MW-0606-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	230	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	42	970	< 2.0 U
MW-0606-S1	11/6/2006	MW-0606-S1 (110606)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	210	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	43	770	1.0 J
MW-0606-S1	10/31/2012	MW-0606-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	281 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	78.8	2,380 D	1.2 J
MW-0606-S1	10/31/2012	MW-0606-S1(103112)LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	288 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	76.5	2,410 D	< 2.0 U
MW-0606-S1	4/2/2013	MW-0606-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	394 EJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	105	4,490 EJ	2.0
MW-0606-S1	10/16/2013	MW-0606-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	314 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	92.8	2,650 D	1.3 J
MW-0606-S1	5/13/2014	MW-0606-S1(051314)	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	365	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	75.9	3,280 D	< 10.0 U
MW-0606-S1	9/25/2014	MW-0606-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	448 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	81.0	2,580 DJ	1.2 J
MW-0606-S1	3/31/2015	MW-0606-S1(033115)-PDB	PDB	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	428	< 1,000 U	< 50.0 U	< 50.0 U	< 50.0 U	94.6	3,030 D	< 20.0 U
MW-0606-S1	9/30/2015	MW-0606-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	0.42 J	< 5.0 U	< 5.0 U	285	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	45.6	1,260 D	0.43 J
MW-0606-S1	3/9/2016	MW-0606-S1(030916)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	329 D	< 100 U	< 5.0 UJ	< 5.0 U	< 5.0 U	62.6	1,960 D	< 2.0 U
MW-0606-S2	3/23/2006	MW-0606-S2 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	2.8 J	< 2.0 U
MW-0606-S2	11/6/2006	MW-0606-S2 (110606)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 7.2 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.3 J	< 2.0 U
MW-0606-S2	6/26/2009	MW-0606-S2 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	245	< 100 U	< 5 U	< 5 U	< 5 U	50.9	390	< 2 U
MW-0606-S2	4/19/2012	MW-0606-S2 (041912)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	194	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	47.5	729 D	< 2.0 U
MW-0606-S2	10/31/2012	MW-0606-S2(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	192	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	43.6	532 D	< 2.0 U
MW-0607-B1	11/12/2008	MW-0607-B1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-B1	6/25/2009	MW-0607-B1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-B1	5/5/2010	MW-0607-B1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-B1	10/28/2010	MW-0607-B1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-B1	5/13/2011	MW-0607-B1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.44 J	< 1.0 U	< 1.0 U
MW-0607-B1	10/18/2011	MW-0607-B1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	3/24/2006	MW-0607-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	11/6/2006	MW-0607-S1 (110606)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	6/25/2009	MW-0607-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	5/5/2010	MW-0607-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	5/6/2010	MW-0607-S1 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	10/28/2010	MW-0607-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	5/13/2011	MW-0607-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.63 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0607-S1	10/18/2011	MW-0607-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	10/31/2012	MW-0607-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0607-S1	4/2/2013	MW-0607-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.9 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	36.9 J	< 2.0 U
MW-0607-S1	10/16/2013	MW-0607-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	5/13/2014	MW-0607-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	9/25/2014	MW-0607-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.0 J	< 2.0 U
MW-0607-S1	3/31/2015	MW-0607-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.23 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	9/30/2015	MW-0607-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.24 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	3/30/2016	MW-0607-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S2	3/7/2007	MW-0607-S2 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0607-S2	11/12/2008	MW-0607-S2 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S2	5/5/2010	MW-0607-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	5.5	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S2	5/6/2010	MW-0607-S2 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S2	10/28/2010	MW-0607-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S2	5/13/2011	MW-0607-S2(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.80 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.66 J
MW-0607-S2	10/18/2011	MW-0607-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0608-B1	3/23/2006	MW-0608-B1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	8.4	150	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	87	2.3 J	< 2.0 U
MW-0608-B1	11/7/2006	MW-0608-B1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	180	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	150	< 5.0 U	1.3 J
MW-0608-B1	6/25/2009	MW-0608-B1 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	169	< 100 U	< 5 U	< 5 U	< 5 U	188	6.6	3.2
MW-0608-B1	6/25/2009	MW-0608-B1 (062509)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	6.0	125	< 100 U	< 5 U	< 5 U	< 5 U	123	< 5 U	< 2 U
MW-0608-S1	3/23/2006	MW-0608-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.9 J	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	2.0 J	< 2.0 U
MW-0608-S1	11/7/2006	MW-0608-S1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	35	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J	1.7 J	< 2.0 U
MW-0608-S1	6/26/2009	MW-0608-S1 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	24.5	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	4.9
MW-0608-S1	10/31/2012	MW-0608-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0608-S1	4/2/2013	MW-0608-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	30.9	< 100 U	2.5 J	< 5.0 U	< 5.0 U	< 5.0 U	5.2 J	1.7 J
MW-0608-S1	10/16/2013	MW-0608-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0608-S1	5/13/2014	MW-0608-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	148	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	11.7	3.5 J	5.4
MW-0608-S1	9/25/2014	MW-0608-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 2.0 U
MW-0608-S1	3/31/2015	MW-0608-S1(033115)-PDB	PDB	< 5.0 U	1.4 J	0.33 J	< 5.0 U	< 5.0 U	144	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	13.1	< 5.0 U	4.0
MW-0608-S1	9/30/2015	MW-0608-S1(093015)PDB	PDB	< 5.0 U	3.9 J	0.54 J	< 5.0 U	< 5.0 U	243 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	35.3	< 5.0 U	5.8
MW-0608-S1	3/30/2016	MW-0608-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	97.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	9.3	< 5.0 U	2.6
MW-0608-S2	3/23/2006	MW-0608-S2 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	900	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	100	100	< 2.0 U
MW-0608-S2	11/7/2006	MW-0608-S2 (110706)	Low-Flow	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 UJ	630	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	88 J	63	< 2.0 U
MW-0608-S2	6/26/2009	MW-0608-S2 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	605	< 100 U	< 5 U	< 5 U	< 5 U	113	12.2	2.6
MW-0608-S2	6/26/2009	FD-2-PS (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	635	< 100 U	< 5 U	< 5 U	< 5 U	109	12.4	2.5
MW-0609-S1	3/23/2006	MW-0609-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	61	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	9.7	260	< 2.0 U
MW-0609-S1	11/9/2006	MW-0609-S1 (110906)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	55	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	9.0	220	< 2.0 U
MW-0609-S1	6/26/2009	MW-0609-S1 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	226	< 100 U	< 5 U	< 5 U	< 5 U	26.1	69.9	3.6
MW-0609-S1	6/26/2009	FD-1-PS (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	225	< 100 U	< 5 U	< 5 U	< 5 U	25.4	69.4	3.7
MW-0609-S1	10/31/2012	MW-0609-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.8 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0609-S1	4/2/2013	MW-0609-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	18.9	< 100 U	2.9 J	< 5.0 U	< 5.0 U	< 5.0 U	8.2 J	< 2.0 U
MW-0609-S1	10/16/2013	MW-0609-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	489 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	40.1	5.9	7.8
MW-0609-S1	5/13/2014	MW-0609-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	198 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	16.2	40.1	5.4
MW-0609-S1	9/25/2014	MW-0609-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	26.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	2.7 J	< 5.0 U	6.2
MW-0609-S1	9/30/2015	MW-0609-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	347 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	53.1	248	3.2
MW-0609-S1	3/30/2016	MW-0609-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	18.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.9	< 2.0 U
MW-0609-S2	11/10/2006	MW-0609-S2 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	73	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	10	< 5.0 U	4.1
MW-0609-S2	11/12/2008	MW-0609-S2 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	22.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0609-S2	5/5/2010	MW-0609-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	127	< 100 U	< 5 U	< 5 U	< 5 U	17.0	< 5 U	4.1
MW-0609-S2	5/6/2010	MW-0609-S2 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	102	< 100 U	< 5 U	< 5 U	< 5 U	13.0	< 5 U	3.5
MW-0609-S2	10/28/2010	MW-0609-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0609-S2	5/13/2011	MW-0609-S2(051311)	PDB	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	130	< 4.0 U	< 4.0 UB	< 4.0 U	< 4.0 U	17	< 4.0 U	4.8
MW-0609-S2	10/18/2011	MW-0609-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	24.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0609-S2	4/20/2012	MW-0609-S2_20120420	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	175	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	21.1	< 5.0 U	3.2
MW-0609-S2	10/31/2012	MW-0609-S2(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	21.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	11/10/2006	MW-0610-S1 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	40	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.2 J	< 5.0 U	1.9 J
MW-0610-S1	11/12/2008	MW-0610-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	19.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/5/2010	MW-0610-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0610-S1	10/28/2010	MW-0610-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/13/2011	MW-0610-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.67 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0610-S1	10/18/2011	MW-0610-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	10/31/2012	MW-0610-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	10/16/2013	MW-0610-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/13/2014	MW-0610-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	9/25/2014	MW-0610-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	< 2.0 U
MW-0610-S1	3/31/2015	MW-0610-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.43 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	9/30/2015	MW-0610-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.1 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	3/30/2016	MW-0610-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0611-S1	11/13/2006	MW-0611-S1 (111306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0611-S1	11/13/2008	MW-0611-S1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0611-S1	4/29/2016	MW-0611-S1 (042916)(Low Flow)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0611-S1	4/29/2016	WC-1-LF (042916)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0612-S1	11/9/2006	MW-0612-S1 (110906)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	130	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	43	3,300	2.4
MW-0612-S1	3/7/2007	MW-0612-S1 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	161	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	38.9	3,950	< 2.0 U
MW-0612-S1	3/7/2007	FD-1-MG (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	132	< 100 U	< 5.0 UJ	< 5.0 U	< 5.0 U	38.6	3,760	3.1
MW-0612-S1	6/25/2009	MW-0612-S1 (062509)	Low-Flow	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	207	< 1,000 U	< 50 U	< 50 U	< 50 U	< 50 U	4,370	< 20 U
MW-0612-S1	4/19/2012	MW-0612-S1 (041912)-PDB	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	223	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	44.9	4,750 D	15.1

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0612-S1	10/31/2012	MW-0612-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	275	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	48.5	5,440 D	24.5
MW-0612-S1	10/31/2012	MW-0612-S1(103112)LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	185	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	45.8	2,490 D	11.8
MW-0612-S1	10/31/2012	FD-2(103112)PDB-WK	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	850 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	141	675 D	< 2.0 U
MW-0612-S1	4/2/2013	MW-0612-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	191	< 100 U	3.5 J	< 5.0 U	< 5.0 U	41.0	3,720 EJ	9.3
MW-0612-S1	10/16/2013	MW-0612-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	242	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	49.1	3,220 D	12.4
MW-0612-S1	5/13/2014	MW-0612-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	248 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	46.2	3,400 D	13.2
MW-0612-S1	9/25/2014	MW-0612-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	251	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	43.2	3,190 DJ	13.7
MW-0612-S1	3/31/2015	MW-0612-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	0.65 J	< 5.0 U	< 5.0 U	292	0.32 J	< 5.0 U	< 5.0 U	< 5.0 U	49.6	3,870 D	11.6
MW-0612-S1	9/30/2015	MW-0612-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	0.43 J	< 5.0 U	< 5.0 U	268 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	62.5	4,420 D	7.6
MW-0612-S1	3/9/2016	MW-0612-S1(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	193	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	47.2	2,380 D	< 10.0 U
MW-0612-S2	11/10/2006	MW-0612-S2 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	360	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	130	1,400	< 2.0 U
MW-0612-S2	3/7/2007	MW-0612-S2 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	827	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	160	1,320	< 2.0 U
MW-0612-S2	6/25/2009	MW-0612-S2 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	1,360	< 100 U	< 5 U	< 5 U	< 5 U	183	268	< 2 U
MW-0612-S2	6/25/2009	MW-0612-S2 (062509)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	1,440	< 100 U	< 5 U	< 5 U	< 5 U	199	353	< 2 U
MW-0612-S2	4/19/2012	MW-0612-S2 (041912)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	678 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	140	625 D	< 2.0 U
MW-0612-S2	4/19/2012	MW-0612-S2 (041912)-LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	663 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	148	747 D	< 2.0 U
MW-0612-S2	10/31/2012	MW-0612-S2(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	868 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	127	647 D	< 2.0 U
MW-0612-S2	10/31/2012	MW-0612-S2(103112)LF	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	871 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	150	857 D	< 2.0 U
MW-0613-S1	11/10/2006	MW-0613-S1 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	11/12/2008	MW-0613-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/5/2010	MW-0613-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0613-S1	10/28/2010	MW-0613-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/13/2011	MW-0613-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.65 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0613-S1	10/18/2011	MW-0613-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	10/31/2012	MW-0613-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.2 UB	< 2.0 U
MW-0613-S1	4/2/2013	MW-0613-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	24.0 J	< 2.0 U
MW-0613-S1	10/16/2013	MW-0613-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/13/2014	MW-0613-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	9/25/2014	MW-0613-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.9 J	< 2.0 U
MW-0613-S1	3/31/2015	MW-0613-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	9/30/2015	MW-0613-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.55 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	3/30/2016	MW-0613-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-B1	11/16/2006	MW-0614-B1 (111606)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.9 J	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-B1	11/12/2008	MW-0614-B1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	17.5	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-S2	11/16/2006	MW-0614-S2 (111606)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-S2	11/12/2008	MW-0614-S2 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-S2	5/5/2010	MW-0614-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0614-S2	10/28/2010	MW-0614-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0614-S2	5/13/2011	MW-0614-S2(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.6	0.63 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0614-S2	10/18/2011	MW-0614-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1	11/20/2006	MW-0615-B1 (112006)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.6 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.8 J	< 2.0 U
MW-0615-B1	11/20/2006	FD-2-MG (112006)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1	11/14/2008	MW-0615-B1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1	5/5/2010	MW-0615-B1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0615-B1	10/28/2010	MW-0615-B1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1	5/13/2011	MW-0615-B1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.8	0.16 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0615-B1	10/18/2011	MW-0615-B1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1a	11/13/2008	MW-0615-B1A (93-103)(111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	5.2	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1a	11/13/2008	MW-0615-B1A (137-145.2)(111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1a	11/13/2008	MW-0615-B1A (103-113)(111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	5.4	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1a	11/13/2008	FD-1-MG (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	5.1	< 5.0 U	< 5.0 U	< 2.0 U
MW-0615-B1a	11/14/2008	MW-0615-B1A (80-90)(111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	10.0	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1	11/27/2006	MW-0616-B1 (112706)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	14	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1	11/13/2008	MW-0616-B1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	10.8	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1a	11/19/2008	MW-0616-B1A (137-145.6)(111908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1a	11/19/2008	MW-0616-B1A (127-137)(111908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	13.7	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1a	11/19/2008	MW-0616-B1A (117-127)(111908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-B1a	11/20/2008	MW-0616-B1A (107-117)(112008)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	7.7	< 5.0 U	< 5.0 U	< 2.0 U
MW-0616-S1	11/13/2006	MW-0616-S1 (111306)	Low-Flow	< 5.0 U	< 5.0 U	2.1 J	< 5.0 U	< 5.0 U	880	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	54	5.7	3.7
MW-0616-S1	11/14/2008	MW-0616-S1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	226	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	18.6	< 5.0 U	10.3
MW-0616-S1	10/31/2012	MW-0616(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	111	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	3.3 J	< 5.0 U	11.1
MW-0617-B1	3/7/2007	MW-0617-B1 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	105	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	15.7	< 5.0 U	< 2.0 U
MW-0617-B1	11/12/2008	MW-0617-B1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	122	< 100 U	< 5.0 U	289	< 5.0 U	25.8	301	< 2.0 U
MW-0617-B1	12/29/2008	MW-0617-B1 (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	162	< 100 U	< 5.0 U	561	< 5.0 U	35.8	405	< 2.0 U

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0617-S1	3/7/2007	MW-0617-S1 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 UJ	48.1	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	11/12/2008	MW-0617-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	18.3	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	12/29/2008	MW-0617-S1 (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	10/31/2012	MW-0617-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	10/16/2013	MW-0617-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	5/13/2014	MW-0617-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	9/25/2014	MW-0617-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	3/31/2015	MW-0617-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.29 J	< 2.0 U
MW-0617-S1	9/30/2015	MW-0617-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	3/30/2016	MW-0617-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S2	3/7/2007	MW-0617-S2 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	518	< 100 U	< 5.0 U	9.0	< 5.0 U	74.5	386	< 2.0 U
MW-0617-S2	11/14/2008	MW-0617-S2 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	342	< 100 U	< 5.0 U	5.8	< 5.0 U	34.4	209	< 2.0 U
MW-0617-S2	12/29/2008	MW-0617-S2 (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	586	< 100 U	< 5.0 U	8.4	< 5.0 U	62.4	227	< 2.0 U
MW-0617-S2	12/29/2008	FD-1-MAH (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	668	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	60.2	221	< 2.0 U
MW-0618-S1	11/13/2006	MW-0618-S1 (111306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	11/12/2008	MW-0618-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	10/31/2012	MW-0618-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0618-S1	4/2/2013	MW-0618-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.2 J	< 2.0 U
MW-0618-S1	10/16/2013	MW-0618-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	5/13/2014	MW-0618-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	3/31/2015	MW-0618-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.49 J	< 5.0 U	< 5.0 U	< 5.0 U	0.29 J	< 5.0 U	< 2.0 U
MW-0618-S1	9/30/2015	MW-0618-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.91 J	0.36 J	< 5.0 U	< 5.0 U	< 5.0 U	0.74 J	0.28 J	< 2.0 U
MW-0618-S1	3/30/2016	MW-0618-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0619-S1	11/20/2006	MW-0619-S1 (112006)	Direct Fill	< 5.0 U	< 5.0 U	1.8 J	< 5.0 U	< 5.0 U	390	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	26	1,900	1.8 J
MW-0619-S1	11/14/2008	MW-0619-S1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	345	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	33.8	3,200	4.9
MW-0619-S1	11/14/2008	FD-2-TK (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	347	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	31.8	3,140	5.0
MW-0619-S1	10/31/2012	MW-0619-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	143	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	6.7	963 D	< 2.0 U
MW-0619-S1	4/2/2013	MW-0619-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	18.4 J	< 100 U	4.0 J	< 5.0 U	< 5.0 U	< 5.0 U	4.7 J	< 2.0 U
MW-0619-S1	10/16/2013	MW-0619-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	165	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	8.4	929 D	< 2.0 U
MW-0619-S1	5/13/2014	MW-0619-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	19.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.3 J	< 2.0 U
MW-0619-S1	9/25/2014	MW-0619-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	17.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20.1	< 2.0 U
MW-0619-S1	3/31/2015	MW-0619-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	25.1	0.38 J	< 5.0 U	< 5.0 U	< 5.0 U	0.94 J	3.0 J	1.8 J
MW-0619-S1	9/30/2015	MW-0619-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	0.89 J	< 5.0 U	< 5.0 U	195	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	13.0	1,310 D	1.5 J
MW-0619-S1	3/30/2016	MW-0619-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	23.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0620-S1	11/21/2006	MW-0620-S1 (112106)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	110	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	11	5,900	< 2.0 U
MW-0620-S1	11/14/2008	MW-0620-S1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	75.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	10.4	5,940	< 2.0 U
MW-0620-S1	4/19/2012	MW-0620-S1 (041912)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.1	86.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4,830 D	< 2.0 U
MW-0620-S1	10/31/2012	MW-0620-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.1 J	213	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	10	5,660 D	< 2.0 U
MW-0620-S1	4/2/2013	MW-0620-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	12.3 J	17.8 J	< 100 U	3.1 J	< 5.0 U	< 5.0 U	< 5.0 U	12,400 EJ	< 2.0 U
MW-0620-S1	10/16/2013	MW-0620-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1,820 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	5.0	1,780 D	< 2.0 U
MW-0620-S1	5/13/2014	MW-0620-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	7.7	167 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5,770 D	< 2.0 U
MW-0620-S1	9/25/2014	MW-0620-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.4	9.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4,830 D	< 2.0 U
MW-0620-S1	3/31/2015	MW-0620-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.3	19.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3,000 D	1.1 J
MW-0620-S1	9/30/2015	MW-0620-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	2.3 J	< 5.0 U	1.5 J	1,100 D	0.35 J	< 5.0 U	< 5.0 U	< 5.0 U	11.3	1,150 D	6.4
MW-0620-S1	3/30/2016	MW-0620-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	6.0	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4,690 D	< 2.0 U
MW-0620-S1	3/30/2016	FD-2(033016)-LM	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4,410 D	< 2.0 U
MW-0621-S1	11/20/2006	MW-0621-S1 (112006)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	80	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	19	6,400	< 2.0 U
MW-0621-S1	11/20/2006	FD-3-MG (112006)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	82	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20	3,500 J	< 2.0 U
MW-0621-S1	11/14/2008	MW-0621-S1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	119	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	19.4	3,110	< 2.0 U
MW-0621-S1	10/31/2012	MW-0621-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	72.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	25.6	1,790 D	< 2.0 U
MW-0621-S1	4/2/2013	MW-0621-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	70.0 J	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	24.8 J	1,640 EJ	< 2.0 U
MW-0621-S1	10/16/2013	MW-0621-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	109	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	30.6	3,220 D	< 2.0 U
MW-0621-S1	5/13/2014	MW-0621-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	71.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	28.5	1,070 D	< 2.0 U
MW-0621-S1	9/25/2014	MW-0621-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	118	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	36.1	3,300 DJ	2.0 J
MW-0621-S1	3/31/2015	MW-0621-S1(033115)-PDB	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	80.4	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	27.6	2,110 D	< 10.0 U
MW-0621-S1	3/31/2015	FD-2(033115)-AO-PDB	PDB	< 125 U	< 125 U	< 125 U	< 125 U	< 125 U	1,840	< 2,500 U	< 125 U	< 125 U	< 125 U	42.3 J	16,300 D	< 50.0 U
MW-0621-S1	9/30/2015	MW-0621-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	95.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	32.1	2,760 D	1.4 J
MW-0621-S1	3/9/2016	MW-0621-S1(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	124	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	38.1	3,030 D	< 10.0 U
MW-0622-S1	11/21/2006	MW-0622-S1 (112106)	Direct Fill	< 5.0 U	4.0 J	3.9 J	< 5.0 U	< 5.0 U	520	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	18	6,000	2.1
MW-0622-S1	11/14/2008	MW-0622-S1 (111408)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	248	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	7.9	2,510	< 2.0 U
MW-0622-S1	10/31/2012	MW-0622-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	11.5	< 5.0 U	< 5.0 U	2,100 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	40.1	20,800 D	3.3
MW-0622-S1	4/2/2013	MW-0622-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	13.7 J	< 5.0 U	< 5.0 U	2,670 EJ	< 100 U	6.5 J	< 5.0 U	< 5.0 U	83.3 J	20,100 EJ	4.6 J
MW-0622-S1	4/2/2013	FD-2 (040213) JG	PDB	< 5.0 U	< 5.0 U	8.9	< 5.0 U	< 5.0 U	2,330 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	84.8	26,800 D	3.2
MW-0622-S1	10/16/2013	MW-0622-S1(101613)	PDB	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	1,700	< 2,000 U	< 100 U	< 100 U	< 100 U	79.9 J	18,800 D	< 40.0 U
MW-0622-S1	10/16/2013	FD-2(101613)-WK	PDB	< 5.0 U	2.8 J	5.9	< 5.0 U	< 5.0 U	1,800 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	30.5 J	15,700 D	< 2.0 U
MW-0622-S1	5/13/2014	MW-0622-S1(051314)	PDB	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	2,650	< 1,000 U	< 50.0 U	< 50.0 U	< 50.0 U	29.8 J	18,400 D	< 20.0 U
MW-0622-S1	5/13/2014	FD-2(051314)	PDB	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	< 50.0 U	2,660	< 1,000 U	< 50.0 U	< 50.0 U	< 50.0 U	28.8 J	22,700 D	< 20.0 U
MW-0622-S1	9/25/2014	MW-0622-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	7.3	< 5.0 U	< 5.0 U	1,960 DJ	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	27.1	16,000 D	1.9 J

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0622-S1	9/25/2014	FD-2(092514)-AO	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 UJ	< 25.0 U	1,660 DJ	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	29.0	10,400 DJ	< 10.0 U
MW-0622-S1	3/31/2015	MW-0622-S1(033115)-PDB	PDB	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	1,790	< 2,000 U	< 100 U	< 100 U	< 100 U	35.8 J	21,800 D	< 40.0 U
MW-0622-S1	9/30/2015	MW-0622-S1(093015)PDB	PDB	< 5.0 U	3.5 J	7.6	< 5.0 U	< 5.0 U	1,520 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	32.9	14,700 D	1.8 J
MW-0622-S1	9/30/2015	FD-2(093015)-CK	PDB	< 5.0 U	3.4 J	7.2	< 5.0 U	< 5.0 U	1,550 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	33.4	11,900 D	1.8 J
MW-0622-S1	3/9/2016	MW-0622-S1(030916)	Low-Flow	< 100 U	< 100 U	< 100 U	< 100 U	< 100 U	946	< 2,000 U	< 100 UJ	< 100 U	< 100 U	< 100 U	9,610 D	< 40.0 U
MW-0622-S2	11/21/2006	MW-0622-S2 (112106)	Direct Fill	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.1 J	1.7 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0622-S2	11/13/2008	MW-0622-S2 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0622-S2	5/5/2010	MW-0622-S2 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0622-S2	10/28/2010	MW-0622-S2(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0622-S2	5/13/2011	MW-0622-S2(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.75 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0622-S2	10/18/2011	MW-0622-S2(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0622-S2	4/19/2012	MW-0622-S2 (041912)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0622-S2	10/31/2012	MW-0622-S2(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	3/7/2007	MW-0623-S1 (030707)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	11/12/2008	MW-0623-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20.3 J	< 2.0 U
MW-0623-S1	11/12/2008	FD-3-MAH (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 2.0 U
MW-0623-S1	12/29/2008	MW-0623-S1 (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	5/5/2010	MW-0623-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0623-S1	10/28/2010	MW-0623-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	5/13/2011	MW-0623-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.67 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0623-S1	10/18/2011	MW-0623-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	10/31/2012	MW-0623-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	4/2/2013	MW-0623-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	20.7	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	228	< 2.0 U
MW-0623-S1	10/16/2013	MW-0623-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	3.1 J	< 2.0 U
MW-0623-S1	5/13/2014	MW-0623-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	9/25/2014	MW-0623-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	3/31/2015	MW-0623-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.46 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0623-S1	9/30/2015	MW-0623-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.82 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.47 J	< 2.0 U
MW-0623-S1	3/30/2016	MW-0623-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0701-B1a	11/12/2008	MW-0701-B1A (98-108)(111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	5.8	< 5.0 U	< 5.0 U	< 2.0 U
MW-0701-B1a	11/12/2008	MW-0701-B1A (88-98)(111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 100 U	< 5.0 U	< 5.0 U	12.8	< 5.0 U	< 5.0 U	< 2.0 U
MW-0702-B1	11/13/2008	MW-0702-B1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0702-B1	6/26/2009	MW-0702-B1 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0703-B1	11/12/2008	MW-0703-B1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0703-B1	6/26/2009	MW-0703-B1 (062609)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0703-B1	5/5/2010	MW-0703-B1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 100 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0703-B1	10/28/2010	MW-0703-B1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0703-B1	5/13/2011	MW-0703-B1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.62 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0703-B1	10/18/2011	MW-0703-B1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0704-S1	11/13/2008	MW-0704-S1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	408	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	71.8	1,370	< 2.0 U
MW-0704-S1	6/25/2009	MW-0704-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	571	< 100 U	< 5 U	< 5 U	< 5 U	103	1,200	5.6
MW-0704-S1	10/31/2012	MW-0704-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	635 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	81.3	1,640 D	2.9
MW-0704-S1	4/2/2013	MW-0704-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	714 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	96.1	2,000 D	2.6
MW-0704-S1	10/16/2013	MW-0704-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	628 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	99.5	1,830 D	4.5
MW-0704-S1	5/13/2014	MW-0704-S1(051314)	PDB	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	606	< 500 U	< 25.0 U	< 25.0 U	< 25.0 U	77.4	2,080 D	< 10.0 U
MW-0704-S1	9/25/2014	MW-0704-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	3.1 J	< 5.0 U	< 5.0 U	704 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	109	3,240 DJ	5.1
MW-0704-S1	3/31/2015	MW-0704-S1(033115)-PDB	PDB	< 25.0 U	< 25.0 U	2.8 J	< 25.0 U	< 25.0 U	740	< 500 U	3.3 J	< 25.0 U	< 25.0 U	101	2,640 D	3.7 J
MW-0704-S1	9/30/2015	MW-0704-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	1.1 J	< 5.0 U	< 5.0 U	620 D	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	94.9	1,880 D	4.8
MW-0704-S1	3/9/2016	MW-0704-S1(030916)	Low-Flow	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	< 25.0 U	660	< 500 U	< 25.0 UJ	< 25.0 U	< 25.0 U	89.5	1,370 D	< 10.0 U
MW-0705-S1	11/13/2008	MW-0705-S1 (111308)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	37.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	9.4	187	< 2.0 U
MW-0705-S1	6/26/2009	MW-0705-S1 (062609)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	34.0	< 100 U	< 5 U	< 5 U	< 5 U	9.0	86.3	4.8
MW-0705-S1	6/26/2009	MW-0705-S1 (062609)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	50.0	< 100 U	< 5 U	< 5 U	< 5 U	14.9	178	5.1
MW-0705-S1	10/31/2012	MW-0705-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	39.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	9.4	146	4.2
MW-0705-S1	4/2/2013	MW-0705-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	46.8	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	13.7	177	4.1
MW-0705-S1	10/16/2013	MW-0705-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	50.3	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	11.9	185	3.9
MW-0705-S1	5/13/2014	MW-0705-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	42.1	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	10.7	131	4.2
MW-0705-S1	9/25/2014	MW-0705-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	40.6	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	9.3	115	3.1
MW-0705-S1	3/31/2015	MW-0705-S1(033115)-PDB	PDB	< 5.0 U	0.80 J	< 5.0 U	< 5.0 U	< 5.0 U	47.9	0.25 J	< 5.0 U	< 5.0 U	< 5.0 U	12.1	148	3.6
MW-0705-S1	9/30/2015	MW-0705-S1(093015)PDB	PDB	< 5.0 U	0.71 J	< 5.0 U	< 5.0 U	< 5.0 U	59.5	0.56 J	< 5.0 U	< 5.0 U	< 5.0 U	18.5	176	3.2
MW-0705-S1	3/30/2016	MW-0705-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	46.5	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	11.6	135	3.4
MW-1501-S1	9/2/2015	MW-1501-S1(090215)	Low-Flow	< 5.0 U	< 5.0 U	0.87 J	< 5.0 U	0.30 J	85.5	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	34.1	1,540 D	4.9
MW-1502-S1	9/2/2015	MW-1502-S1(090215)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	148	< 100 U	< 5.0 U	< 5.0 U	0.15 J	1.2 J	42.4	45.0
MW-1503-S1	9/2/2015	MW-1503-S1(090215)	Low-Flow	< 5.0 U	< 5.0 U	16.1	< 5.0 U	0.48 J	1,980 D	< 100 U	< 5.0 U	< 5.0 U	0.22 J	25.7	2,820 D	50.5
MW-1504-S1	9/2/2015	MW-1504-S1(090215)	Low-Flow	< 5.0 U	< 5.0 U	4.0 J	< 5.0 U	0.27 J	315 D	< 100 U	< 5.0 U	< 5.0 U	0.34 J	13.2	4,680 D	7.0

Table 2
Groundwater Analytical Data Summary Screened Against Drinking Water Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)												
				1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	Benzene	Chloroform (Trichloromethane)	cis-1,2-Dichloroethene	Cyclohexane	Methylene chloride	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-1505-S1	9/3/2015	MW-1505-S1(090315)	Low-Flow	< 5.0 U	< 5.0 U	0.80 J	< 5.0 U	0.17 J	132	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	5.8	832 D	1.7 J
MW-1506-S1	9/3/2015	MW-1506-S1(090315)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.3 J	10.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	579 D	< 2.0 U
MW-1507-S1	9/3/2015	MW-1507-S1(090315)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.58 J	14.2	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	2.2 J	271 D	< 2.0 U
MW-1508-S1	9/3/2015	MW-1508-S1(090315)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.51 J	10	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	0.35 J	105	< 2.0 U
MW-1508-S1	9/3/2015	DUP-01(090315)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.36 J	9.9	< 100 U	< 5.0 U	< 5.0 U	< 5.0 U	0.33 J	102	< 2.0 U
Maximum Contaminant Level				200	24	7	5	80	70	13,000	5	5	1,000	100	5	2

Notes:
The data are screened against United States Environmental Protection Agency (USEPA) Drinking Water Screening Criteria (Maximum Contaminant Levels [MCLs]).
*- No MCL is established for 1,1-dichloroethane or cyclohexane; as such, the Indiana Deprtment of Environmental Management Remediation Closure Guide (RCG) Tap Water Criteria were used for screening purposes
Concentrations highlighted gray exceed the screening criteria
µg/L - micrograms per liter
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit
D - Concentration is based on a diluted sample analysis
J - The compound was positively identified; however, the associated numerical value is an estimated concentration only
UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation
UB - Compound considered non-detect at the listed value due to associated blank contamination
E - The compound was quantitated above the calibration range.
PDB - Passive diffusion bag

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0101-P1	11/15/2004	8.13	9.85	826.36	818.23
MW-0101-P1	10/25/2005	9.51	9.98	826.36	816.85
MW-0101-P1	3/24/2006	Abandoned			
MW-0101-S1U	11/15/2004	11.15	17.50	826.36	815.21
MW-0101-S1U	10/25/2005	12.02	17.51	826.36	814.34
MW-0101-S1U	3/24/2006	10.52	17.23	826.36	815.84
MW-0101-S1U	3/31/2006	9.75	17.23	826.36	816.61
MW-0101-S1U	4/28/2006	10.42	NM	826.36	815.94
MW-0101-S1U	12/5/2006	9.13	17.51	826.36	817.23
MW-0101-S1U	3/8/2007	10.21	17.51	826.36	816.15
MW-0101-S1U	1/16/2008	10.69	17.61	826.36	815.67
MW-0101-S1U	11/11/2008	14.31	17.46	826.36	812.05
MW-0101-S1U	2/17/2009	12.66	NM	826.36	813.70
MW-0101-S1U	6/12/2009	11.18	NM	826.36	815.18
MW-0101-S1U	3/29/2012	11.23	17.70	826.36	815.13
MW-0101-S1U	10/9/2012	13.76	17.50	826.36	812.60
MW-0101-S1U	3/12/2013	11.73	17.50	826.36	814.63
MW-0101-S1U	9/24/2013	12.70	17.76	826.36	813.66
MW-0101-S1U	4/22/2014	11.46	17.66	826.36	814.90
MW-0101-S1U	9/3/2014	13.09	17.64	826.36	813.27
MW-0101-S1U	3/10/2015	12.03	16.64	826.36	814.33
MW-0101-S1U	9/8/2015	12.10	17.45	826.36	814.26
MW-0101-S1U	3/10/2016	11.68	17.77	826.36	814.68
MW-0102-S1U	11/15/2004	11.10	26.00	826.36	815.26
MW-0102-S1U	9/20/2005	12.28	26.14	826.36	814.08
MW-0102-S1U	10/20/2005	12.12	26.28	826.36	814.24
MW-0102-S1U	10/25/2005	12.03	26.28	826.36	814.33
MW-0102-S1U	3/22/2006	10.50	25.90	826.36	815.86
MW-0102-S1U	3/31/2006	9.73	25.90	826.36	816.63
MW-0102-S1U	4/28/2006	10.47	NM	826.36	815.89
MW-0102-S1U	12/5/2006	9.33	NM	826.36	817.03
MW-0102-S1U	3/8/2007	10.32	26.28	826.36	816.04
MW-0102-S1U	1/16/2008	11.00	26.40	826.36	815.36
MW-0102-S1U	11/11/2008	14.33	26.26	826.36	812.03
MW-0102-S1U	2/17/2009	12.51	NM	826.36	813.85
MW-0102-S1U	6/12/2009	11.18	NM	826.36	815.18
MW-0102-S1U	3/29/2012	11.25	26.43	826.36	815.11
MW-0102-S1U	10/9/2012	13.76	26.25	826.36	812.60
MW-0102-S1U	3/12/2013	11.91	26.15	826.36	814.45
MW-0102-S1U	9/24/2013	12.74	26.41	826.36	813.62
MW-0102-S1U	4/22/2014	11.45	26.37	826.36	814.91

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0102-S1U	9/3/2014	13.06	26.40	826.36	813.30
MW-0102-S1U	3/10/2015	12.02	26.38	826.36	814.34
MW-0102-S1U	9/8/2015	12.15	26.21	826.36	814.21
MW-0102-S1U	3/10/2016	11.63	27.46	826.36	814.73
MW-0103-S1U	10/25/2005	13.47	NM	828.15	814.68
MW-0103-S1U	11/15/2005	12.60	20.00	828.15	815.55
MW-0103-S1U	3/22/2006	12.03	19.76	828.15	816.12
MW-0103-S1U	3/31/2006	11.26	19.76	828.15	816.89
MW-0103-S1U	4/28/2006	11.91	NM	828.15	816.24
MW-0103-S1U	12/5/2006	10.70	19.77	828.15	817.45
MW-0103-S1U	3/8/2007	11.71	19.76	828.15	816.44
MW-0103-S1U	1/16/2008	12.46	19.89	828.15	815.69
MW-0103-S1U	11/11/2008	15.87	19.81	828.15	812.28
MW-0103-S1U	2/17/2009	14.06	NM	828.15	814.09
MW-0103-S1U	6/12/2009	12.63	NM	828.15	815.52
MW-0103-S1U	10/9/2012	15.30	19.66	828.15	812.85
MW-0103-S1U	3/12/2013	13.47	19.66	828.15	814.68
MW-0103-S1U	9/24/2013	14.29	19.75	828.15	813.86
MW-0103-S1U	4/22/2014	12.94	19.74	828.15	815.21
MW-0103-S1U	9/3/2014	14.59	19.62	828.15	813.56
MW-0103-S1U	3/10/2015	13.55	19.65	828.15	814.60
MW-0103-S1U	9/8/2015	13.57	19.64	828.15	814.58
MW-0103-S1U	3/10/2016	13.08	19.73	828.15	815.07
MW-0501-P1	9/20/2005	12.09	18.85	828.62	816.53
MW-0501-P1	10/18/2005	13.22	18.95	828.62	815.40
MW-0501-P1	10/25/2005	12.97	18.95	828.62	815.65
MW-0501-P1	3/22/2006	12.67	18.95	828.62	815.95
MW-0501-P1	3/31/2006	11.84	18.95	828.62	816.78
MW-0501-P1	4/28/2006	11.29	NM	828.62	817.33
MW-0501-P1	12/5/2006	10.46	18.69	828.62	818.16
MW-0501-P1	3/8/2007	10.79	18.71	828.62	817.83
MW-0501-P1	1/16/2008	11.82	18.80	828.62	816.80
MW-0501-P1	11/11/2008	14.48	18.71	828.62	814.14
MW-0501-P1	2/17/2009	11.93	NM	828.62	816.69
MW-0501-S1	3/22/2006	12.18	34.39	828.65	816.47
MW-0501-S1	3/31/2006	11.41	34.39	828.65	817.24
MW-0501-S1	4/28/2006	12.07	NM	828.65	816.58
MW-0501-S1	12/5/2006	10.84	33.95	828.65	817.81
MW-0501-S1	3/8/2007	11.90	33.74	828.65	816.75
MW-0501-S1	1/16/2008	12.67	33.95	828.65	815.98
MW-0501-S1	11/11/2008	16.10	33.60	828.65	812.55
MW-0501-S1	2/17/2009	14.44	NM	828.65	814.21
MW-0501-S1	6/12/2009	12.77	NM	828.65	815.88

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0501-S1	4/13/2010	12.52	33.33	828.65	816.13
MW-0501-S1	9/5/2010	15.30	33.00	828.65	813.35
MW-0501-S1	4/20/2011	12.12	32.98	828.65	816.53
MW-0501-S1	9/27/2011	13.26	33.14	828.65	815.39
MW-0501-S1	3/29/2012	12.89	33.11	828.65	815.76
MW-0501-S1	10/9/2012	15.59	32.95	828.65	813.06
MW-0501-S1	3/12/2013	13.73	32.95	828.65	814.92
MW-0501-S1	9/24/2013	14.48	33.00	828.65	814.17
MW-0501-S1	4/22/2014	13.08	32.99	828.65	815.57
MW-0501-S1	9/3/2014	14.82	32.94	828.65	813.83
MW-0501-S1	3/10/2015	13.78	32.86	828.65	814.87
MW-0501-S1	9/8/2015	13.92	32.60	828.65	814.73
MW-0501-S1	3/10/2016	13.34	32.84	828.65	815.31
MW-0501-S2	10/18/2005	14.87	76.30	828.75	813.88
MW-0501-S2	10/25/2005	15.02	76.30	828.75	813.73
MW-0501-S2	3/21/2006	12.83	76.30	828.75	815.92
MW-0501-S2	3/31/2006	11.98	76.30	828.75	816.77
MW-0501-S2	4/28/2006	12.00	NM	828.75	816.75
MW-0501-S2	12/5/2006	9.83	76.13	828.75	818.92
MW-0501-S2	3/8/2007	11.79	76.09	828.75	816.96
MW-0501-S2	1/16/2008	14.80	76.20	828.75	813.95
MW-0501-S2	11/11/2008	21.21	76.12	828.75	807.54
MW-0501-S2	2/17/2009	17.60	NM	828.75	811.15
MW-0501-S2	6/12/2009	15.49	NM	828.75	813.26
MW-0501-S2	4/13/2010	14.37	76.12	828.75	814.38
MW-0501-S2	9/5/2010	19.74	76.11	828.75	809.01
MW-0501-S2	4/20/2011	15.01	76.00	828.75	813.74
MW-0501-S2	9/27/2011	17.44	75.24	828.75	811.31
MW-0501-S2	3/29/2012	14.62	76.21	828.75	814.13
MW-0501-S2	10/9/2012	20.48	76.15	828.75	808.27
MW-0501-S2	3/12/2013	15.08	76.15	828.75	813.67
MW-0501-S2	9/24/2013	17.93	76.20	828.75	810.82
MW-0501-S2	4/22/2014	15.80	77.48	828.75	812.95
MW-0501-S2	9/3/2014	19.70	77.62	828.75	809.05
MW-0501-S2	3/10/2015	17.08	NM	828.75	811.67
MW-0501-S2	9/8/2015	15.21	74.02	828.75	813.54
MW-0501-S2	3/10/2016	15.33	76.24	828.75	813.42
MW-0501-S3	10/20/2005	15.00	94.98	828.78	813.78
MW-0501-S3	10/25/2005	15.04	94.98	828.78	813.74
MW-0501-S3	3/21/2006	12.81	94.98	828.78	815.97
MW-0501-S3	3/31/2006	12.06	94.98	828.78	816.72
MW-0501-S3	4/28/2006	12.02	NM	828.78	816.76
MW-0501-S3	12/5/2006	10.48	94.75	828.78	818.30
MW-0501-S3	3/8/2007	11.86	94.64	828.78	816.92

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0501-S3	1/16/2008	14.86	94.80	828.78	813.92
MW-0501-S3	11/11/2008	21.27	94.85	828.78	807.51
MW-0501-S3	2/17/2009	17.68	NM	828.78	811.10
MW-0501-S3	6/12/2009	15.58	NM	828.78	813.20
MW-0501-S3	4/13/2010	14.42	94.73	828.78	814.36
MW-0501-S3	9/5/2010	19.82	96.05	828.78	808.96
MW-0501-S3	4/20/2011	15.11	94.60	828.78	813.67
MW-0501-S3	9/27/2011	17.44	94.90	828.78	811.34
MW-0501-S3	10/9/2012	14.20	31.91	828.78	814.58
MW-0502-S1	9/20/2005	12.20	32.59	826.34	814.14
MW-0502-S1	10/19/2005	11.91	32.78	826.34	814.43
MW-0502-S1	10/25/2005	11.91	32.78	826.34	814.43
MW-0502-S1	3/24/2006	10.41	32.54	826.34	815.93
MW-0502-S1	3/31/2006	9.64	32.54	826.34	816.70
MW-0502-S1	4/28/2006	10.32	NM	826.34	816.02
MW-0502-S1	12/5/2006	9.25	NM	826.34	817.09
MW-0502-S1	3/8/2007	10.12	32.50	826.34	816.22
MW-0502-S1	1/16/2008	10.95	32.62	826.34	815.39
MW-0502-S1	11/11/2008	14.22	32.40	826.34	812.12
MW-0502-S1	2/17/2009	12.54	NM	826.34	813.80
MW-0502-S1	6/12/2009	11.04	NM	826.34	815.30
MW-0502-S1	4/13/2010	10.78	32.55	826.34	815.56
MW-0502-S1	9/5/2010	13.46	32.60	826.34	812.88
MW-0502-S1	4/20/2011	10.29	32.45	826.34	816.05
MW-0502-S1	9/27/2011	11.44	32.65	826.34	814.90
MW-0502-S1	3/29/2012	11.08	32.61	826.34	815.26
MW-0502-S1	10/9/2012	13.65	32.51	826.34	812.69
MW-0502-S1	3/12/2013	11.73	32.51	826.34	814.61
MW-0502-S1	9/24/2013	12.62	32.63	826.34	813.72
MW-0502-S1	4/22/2014	11.35	32.62	826.34	814.99
MW-0502-S1	9/3/2014	12.96	32.66	826.34	813.38
MW-0502-S1	3/10/2015	11.90	32.63	826.34	814.44
MW-0502-S1	9/8/2015	12.02	32.39	826.34	814.32
MW-0502-S1	3/10/2016	11.51	32.62	826.34	814.83
MW-0503-S1	10/18/2005	12.51	32.57	826.82	814.31
MW-0503-S1	10/25/2005	12.51	32.57	826.82	814.31
MW-0503-S1	3/24/2006	11.09	32.27	826.82	815.73
MW-0503-S1	3/31/2006	10.32	32.27	826.82	816.50
MW-0503-S1	4/28/2006	11.00	NM	826.82	815.82
MW-0503-S1	12/5/2006	9.84	NM	826.82	816.98
MW-0503-S1	3/8/2007	10.80	32.32	826.82	816.02
MW-0503-S1	1/16/2008	11.57	32.42	826.82	815.25
MW-0503-S1	11/11/2008	14.75	32.20	826.82	812.07
MW-0503-S1	2/17/2009	12.96	NM	826.82	813.86

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0503-S1	6/12/2009	11.68	NM	826.82	815.14
MW-0503-S1	4/13/2010	11.46	32.16	826.82	815.36
MW-0503-S1	9/5/2010	14.04	32.00	826.82	812.78
MW-0503-S1	4/20/2011	10.87	31.98	826.82	815.95
MW-0503-S1	9/27/2011	11.99	32.35	826.82	814.83
MW-0503-S1	3/29/2012	11.77	32.40	826.82	815.05
MW-0503-S1	10/9/2012	14.20	31.91	826.82	812.62
MW-0503-S1	3/12/2013	12.35	31.91	826.82	814.47
MW-0503-S1	9/24/2013	13.20	32.30	826.82	813.62
MW-0503-S1	4/22/2014	11.95	31.87	826.82	814.87
MW-0503-S1	9/3/2014	13.51	31.96	826.82	813.31
MW-0503-S1	3/10/2015	12.49	31.56	826.82	814.33
MW-0503-S1	9/8/2015	12.62	31.20	826.82	814.2
MW-0503-S1	3/10/2016	12.11	31.32	826.82	814.71
MW-0503-S2	10/18/2005	13.28	68.33	826.81	813.53
MW-0503-S2	10/25/2005	13.27	68.33	826.81	813.54
MW-0503-S2	3/24/2006	10.38	68.05	826.81	816.43
MW-0503-S2	3/31/2006	9.53	68.05	826.81	817.28
MW-0503-S2	4/28/2006	10.51	NM	826.81	816.30
MW-0503-S2	12/5/2006	9.06	NM	826.81	817.75
MW-0503-S2	3/8/2007	10.28	68.13	826.81	816.53
MW-0503-S2	1/16/2008	12.92	68.30	826.81	813.89
MW-0503-S2	11/11/2008	18.80	68.19	826.81	808.01
MW-0503-S2	2/17/2009	15.41	NM	826.81	811.40
MW-0503-S2	6/12/2009	13.57	NM	826.81	813.24
MW-0503-S2	3/10/2016	13.46	NM	826.81	813.35
MW-0504-I2	10/18/2005	19.66	39.87	826.51	806.85
MW-0504-I2	10/25/2005	13.03	39.87	826.51	813.48
MW-0504-I2	3/27/2006	11.53	39.61	826.51	814.98
MW-0504-I2	3/31/2006	10.71	39.61	826.51	815.80
MW-0504-I2	4/28/2006	11.19	NM	826.51	815.32
MW-0504-I2	12/5/2006	10.08	NM	826.51	816.43
MW-0504-I2	3/8/2007	11.60	39.65	826.51	814.91
MW-0504-I2	1/16/2008	11.67	39.80	826.51	814.84
MW-0504-I2	11/11/2008	14.84	39.71	826.51	811.67
MW-0504-I2	2/17/2009	12.99	NM	826.51	813.52
MW-0504-S1	9/20/2005	12.51	29.73	826.15	813.64
MW-0504-S1	10/18/2005	12.25	29.19	826.15	813.90
MW-0504-S1	10/25/2005	12.23	29.19	826.15	813.92
MW-0504-S1	3/27/2006	11.10	28.69	826.15	815.05
MW-0504-S1	3/31/2006	10.33	28.69	826.15	815.82
MW-0504-S1	4/28/2006	10.88	NM	826.15	815.27
MW-0504-S1	12/5/2006	10.78	NM	826.15	815.37

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0504-S1	3/8/2007	10.68	30.82	826.15	815.47
MW-0504-S1	1/16/2008	11.25	30.90	826.15	814.90
MW-0504-S1	11/11/2008	14.40	30.76	826.15	811.75
MW-0504-S1	2/17/2009	12.58	NM	826.15	813.57
MW-0504-S1	6/12/2009	11.51	NM	826.15	814.64
MW-0504-S1	10/9/2012	13.84	30.71	826.15	812.31
MW-0504-S1	3/12/2013	12.02	30.71	826.15	814.13
MW-0504-S1	9/24/2013	12.90	30.98	826.15	813.25
MW-0504-S1	4/22/2014	11.81	30.91	826.15	814.34
MW-0504-S1	9/3/2014	13.21	31.71	826.15	812.94
MW-0504-S1	3/10/2015	12.22	30.55	826.15	813.93
MW-0504-S1	9/8/2015	12.38	30.15	826.15	813.77
MW-0504-S1	3/10/2016	11.84	30.76	826.15	814.31
MW-0504-S2	3/27/2006	10.23	60.45	826.41	816.18
MW-0504-S2	3/31/2006	9.38	60.45	826.41	817.03
MW-0504-S2	4/28/2006	10.11	NM	826.41	816.30
MW-0504-S2	12/5/2006	8.70	NM	826.41	817.71
MW-0504-S2	3/8/2007	10.00	60.52	826.41	816.41
MW-0504-S2	1/16/2008	12.50	60.63	826.41	813.91
MW-0504-S2	11/11/2008	18.46	60.55	826.41	807.95
MW-0504-S2	2/17/2009	14.97	NM	826.41	811.44
MW-0504-S2	6/12/2009	13.14	NM	826.41	813.27
MW-0504-S2	3/10/2016	13.06	NM	826.41	813.35
MW-0505-B1	12/5/2006	8.69	NM	826.5	817.81
MW-0505-B1	3/8/2007	8.98	83.90	826.5	817.52
MW-0505-B1	1/16/2008	11.56	83.95	826.5	814.94
MW-0505-B1	11/11/2008	17.51	83.90	826.5	808.99
MW-0505-B1	2/17/2009	14.06	NM	826.5	812.44
MW-0505-B1	6/12/2009	12.18	NM	826.5	814.32
MW-0505-B1	4/13/2010	11.21	83.97	826.5	815.29
MW-0505-B1	9/5/2010	16.22	84.00	826.5	810.28
MW-0505-B1	4/20/2011	11.65	83.82	826.5	814.85
MW-0505-B1	9/27/2011	14.56	84.08	826.5	811.94
MW-0505-S1	9/20/2005	11.42	39.00	825.44	814.02
MW-0505-S1	10/19/2005	11.19	40.28	825.44	814.25
MW-0505-S1	10/25/2005	11.16	40.28	825.44	814.28
MW-0505-S1	3/23/2006	9.70	40.00	825.44	815.74
MW-0505-S1	3/31/2006	8.93	40.00	825.44	816.51
MW-0505-S1	4/28/2006	9.69	NM	825.44	815.75
MW-0505-S1	12/5/2006	8.52	NM	825.44	816.92
MW-0505-S1	3/8/2007	9.48	40.71	825.44	815.96
MW-0505-S1	1/16/2008	10.15	40.80	825.44	815.29
MW-0505-S1	11/11/2008	13.46	40.65	825.44	811.98

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0505-S1	2/17/2009	11.63	NM	825.44	813.81
MW-0505-S1	6/12/2009	10.34	NM	825.44	815.10
MW-0505-S1	10/9/2012	12.47	40.67	825.44	812.97
MW-0505-S1	3/12/2013	11.02	40.67	825.44	814.42
MW-0505-S1	9/24/2013	11.85	40.84	825.44	813.59
MW-0505-S1	4/22/2014	10.64	40.41	825.44	814.80
MW-0505-S1	9/3/2014	12.20	40.80	825.44	813.24
MW-0505-S1	3/10/2015	11.17	40.75	825.44	814.27
MW-0505-S1	9/8/2015	11.30	40.52	825.44	814.14
MW-0505-S1	3/10/2016	10.77	40.75	825.44	814.67
MW-0505-S2	10/19/2005	12.37	67.63	825.06	812.69
MW-0505-S2	10/25/2005	11.42	67.63	825.06	813.64
MW-0505-S2	3/23/2006	9.59	67.32	825.06	815.47
MW-0505-S2	3/31/2006	8.74	67.32	825.06	816.32
MW-0505-S2	4/28/2006	9.65	NM	825.06	815.41
MW-0505-S2	12/5/2006	7.27	NM	825.06	817.79
MW-0505-S2	3/8/2007	8.55	67.45	825.06	816.51
MW-0505-S2	1/16/2008	11.10	67.50	825.06	813.96
MW-0505-S2	11/11/2008	17.04	67.45	825.06	808.02
MW-0505-S2	2/17/2009	13.63	NM	825.06	811.43
MW-0505-S2	6/12/2009	11.76	NM	825.06	813.30
MW-0505-S2	4/13/2010	11.74	67.38	825.06	813.32
MW-0505-S2	9/5/2010	15.76	67.50	825.06	809.30
MW-0505-S2	4/20/2011	11.23	67.35	825.06	813.83
MW-0505-S2	9/27/2011	13.51	67.60	825.06	811.55
MW-0505-S2	3/29/2012	11.03	67.55	825.06	814.03
MW-0505-S2	10/9/2012	16.46	67.46	825.06	808.60
MW-0505-S2	3/12/2013	11.58	67.46	825.06	813.48
MW-0505-S2	9/24/2013	14.10	67.52	825.06	810.96
MW-0505-S2	4/22/2014	11.99	67.59	825.06	813.07
MW-0505-S2	9/3/2014	15.65	68.81	825.06	809.41
MW-0505-S2	3/10/2015	13.18	NM	825.06	811.88
MW-0505-S2	9/8/2015	13.60	67.43	825.06	811.46
MW-0505-S2	3/10/2016	11.63	NM	825.06	813.43
MW-0506-I2	10/19/2005	24.10	47.56	827.18	803.08
MW-0506-I2	10/25/2005	22.82	47.56	827.18	804.36
MW-0506-I2	3/27/2006	17.97	47.27	827.18	809.21
MW-0506-I2	3/31/2006	17.15	47.27	827.18	810.03
MW-0506-I2	4/28/2006	20.02	NM	827.18	807.16
MW-0506-I2	12/5/2006	19.82	NM	827.18	807.36
MW-0506-I2	3/8/2007	15.48	47.35	827.18	811.70
MW-0506-I2	1/16/2008	14.57	47.50	827.18	812.61
MW-0506-I2	11/11/2008	15.71	47.38	827.18	811.47
MW-0506-I2	2/17/2009	16.63	NM	827.18	810.55

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0506-S1	10/19/2005	13.11	34.84	826.88	813.77
MW-0506-S1	10/25/2005	13.11	34.84	826.88	813.77
MW-0506-S1	3/27/2006	11.96	34.55	826.88	814.92
MW-0506-S1	3/31/2006	11.19	34.55	826.88	815.69
MW-0506-S1	4/28/2006	11.76	NM	826.88	815.12
MW-0506-S1	12/5/2006	10.72	NM	826.88	816.16
MW-0506-S1	3/8/2007	11.54	34.62	826.88	815.34
MW-0506-S1	1/16/2008	12.21	34.35	826.88	814.67
MW-0506-S1	11/11/2008	15.21	34.65	826.88	811.67
MW-0506-S1	2/17/2009	13.40	NM	826.88	813.48
MW-0506-S1	6/12/2009	12.38	NM	826.88	814.50
MW-0506-S1	10/9/2012	14.65	34.69	826.88	812.23
MW-0506-S1	3/12/2013	12.85	34.69	826.88	814.03
MW-0506-S1	9/24/2013	13.74	34.78	826.88	813.14
MW-0506-S1	4/22/2014	12.67	34.71	826.88	814.21
MW-0506-S1	9/3/2014	14.02	34.75	826.88	812.86
MW-0506-S1	3/10/2015	13.06	34.76	826.88	813.82
MW-0506-S1	9/8/2015	13.24	34.50	826.88	813.64
MW-0506-S1	3/10/2016	12.68	34.86	826.88	814.2
MW-0506-S2	10/19/2005	13.58	72.52	827.1	813.52
MW-0506-S2	10/25/2005	13.58	72.52	827.1	813.52
MW-0506-S2	3/27/2006	11.95	72.24	827.1	815.15
MW-0506-S2	3/31/2006	11.10	72.24	827.1	816.00
MW-0506-S2	4/28/2006	10.84	NM	827.1	816.26
MW-0506-S2	12/5/2006	9.43	NM	827.1	817.67
MW-0506-S2	3/8/2007	11.72	72.26	827.1	815.38
MW-0506-S2	1/16/2008	13.20	72.40	827.1	813.90
MW-0506-S2	11/11/2008	19.11	72.35	827.1	807.99
MW-0506-S2	2/17/2009	15.69	NM	827.1	811.41
MW-0506-S2	6/12/2009	13.87	NM	827.1	813.23
MW-0506-S2	3/29/2012	13.13	72.41	827.1	813.97
MW-0506-S2	10/9/2012	18.51	72.38	827.1	808.59
MW-0506-S2	3/12/2013	13.66	72.38	827.1	813.44
MW-0506-S2	9/24/2013	16.20	72.44	827.1	810.90
MW-0506-S2	4/22/2014	14.13	72.56	827.1	812.97
MW-0506-S2	9/3/2014	17.70	73.52	827.1	809.40
MW-0506-S2	3/10/2015	15.27	NM	827.1	811.83
MW-0506-S2	9/8/2015	13.74	72.14	827.1	813.36
MW-0506-S2	3/10/2016	13.67	NM	827.1	813.43
MW-0507-S1	10/19/2005	13.15	33.49	827.19	814.04
MW-0507-S1	10/25/2005	13.12	33.49	827.19	814.07
MW-0507-S1	3/27/2006	11.86	33.18	827.19	815.33
MW-0507-S1	3/31/2006	11.09	33.18	827.19	816.10
MW-0507-S1	4/28/2006	11.69	NM	827.19	815.50

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0507-S1	12/5/2006	10.58	NM	827.19	816.61
MW-0507-S1	3/8/2007	11.48	33.19	827.19	815.71
MW-0507-S1	1/16/2008	12.18	33.35	827.19	815.01
MW-0507-S1	11/11/2008	15.27	33.15	827.19	811.92
MW-0507-S1	2/17/2009	13.50	NM	827.19	813.69
MW-0507-S1	6/12/2009	12.33	NM	827.19	814.86
MW-0507-S1	4/13/2010	12.13	33.27	827.19	815.06
MW-0507-S1	9/5/2010	14.61	33.20	827.19	812.58
MW-0507-S1	4/20/2011	11.54	33.16	827.19	815.65
MW-0507-S1	9/27/2011	12.60	33.35	827.19	814.59
MW-0507-S1	3/29/2012	12.41	33.32	827.19	814.78
MW-0507-S1	10/9/2012	14.74	33.11	827.19	812.45
MW-0507-S1	3/12/2013	12.92	33.11	827.19	814.27
MW-0507-S1	9/24/2013	13.78	33.32	827.19	813.41
MW-0507-S1	4/22/2014	12.63	33.37	827.19	814.56
MW-0507-S1	9/3/2014	14.08	33.29	827.19	813.11
MW-0507-S1	3/10/2015	13.08	32.88	827.19	814.11
MW-0507-S1	9/8/2015	13.23	32.40	827.19	813.96
MW-0507-S1	3/10/2016	12.71	32.39	827.19	814.48
MW-0509-I2	10/19/2005	12.58	55.96	826.32	813.74
MW-0509-I2	10/25/2005	12.66	55.96	826.32	813.66
MW-0509-I2	3/23/2006	9.87	55.65	826.32	816.45
MW-0509-I2	3/31/2006	9.05	55.65	826.32	817.27
MW-0509-I2	4/28/2006	9.81	NM	826.32	816.51
MW-0509-I2	12/5/2006	8.36	55.74	826.32	817.96
MW-0509-I2	3/8/2007	9.68	55.67	826.32	816.64
MW-0509-I2	1/16/2008	12.37	55.79	826.32	813.95
MW-0509-I2	11/11/2008	18.42	55.60	826.32	807.90
MW-0509-I2	2/17/2009	14.94	NM	826.32	811.38
MW-0509-S1	9/20/2005	12.18	38.00	826.33	814.15
MW-0509-S1	10/25/2005	11.92	38.11	826.33	814.41
MW-0509-S1	3/23/2006	10.43	37.82	826.33	815.90
MW-0509-S1	3/31/2006	9.66	37.82	826.33	816.67
MW-0509-S1	4/28/2006	10.35	NM	826.33	815.98
MW-0509-S1	12/5/2006	9.20	37.90	826.33	817.13
MW-0509-S1	3/8/2007	10.20	37.89	826.33	816.13
MW-0509-S1	1/16/2008	10.89	38.00	826.33	815.44
MW-0509-S1	11/11/2008	14.24	37.92	826.33	812.09
MW-0509-S1	2/17/2009	12.38	NM	826.33	813.95
MW-0509-S1	6/12/2009	11.04	NM	826.33	815.29
MW-0509-S1	4/13/2010	10.82	37.91	826.33	815.51
MW-0509-S1	9/5/2010	13.45	37.90	826.33	812.88
MW-0509-S1	4/20/2011	10.29	37.85	826.33	816.04
MW-0509-S1	9/27/2011	11.43	38.08	826.33	814.90

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0509-S1	3/29/2012	11.13	38.00	826.33	815.20
MW-0509-S1	10/9/2012	13.65	37.98	826.33	812.68
MW-0509-S1	3/12/2013	13.45	37.98	826.33	812.88
MW-0509-S1	9/24/2013	12.62	38.03	826.33	813.71
MW-0509-S1	4/22/2014	11.35	38.06	826.33	814.98
MW-0509-S1	9/3/2914	12.98	38.02	826.33	813.35
MW-0509-S1	3/10/2015	11.89	38.03	826.33	814.44
MW-0509-S1	9/8/2015	12.03	37.88	826.33	814.30
MW-0509-S1	3/10/2016	11.51	38.01	826.33	814.82
MW-0516-S1	10/19/2005	13.42	32.88	827.98	814.56
MW-0516-S1	10/25/2005	13.42	32.88	827.98	814.56
MW-0516-S1	3/23/2006	11.88	32.61	827.98	816.10
MW-0516-S1	3/31/2006	11.13	32.61	827.98	816.85
MW-0516-S1	4/28/2006	11.78	NM	827.98	816.20
MW-0516-S1	12/5/2006	10.11	NM	827.98	817.87
MW-0516-S1	3/8/2007	11.59	32.66	827.98	816.39
MW-0516-S1	1/16/2008	12.35	32.40	827.98	815.63
MW-0516-S1	11/11/2008	15.74	32.60	827.98	812.24
MW-0516-S1	2/17/2009	14.00	NM	827.98	813.98
MW-0516-S1	6/12/2009	12.52	NM	827.98	815.46
MW-0516-S1	4/13/2010	12.24	32.70	827.98	815.74
MW-0516-S1	9/5/2010	14.96	32.65	827.98	813.02
MW-0516-S1	4/20/2011	11.31	32.60	827.98	816.67
MW-0516-S1	9/27/2011	12.92	32.84	827.98	815.06
MW-0516-S1	3/29/2012	12.59	32.80	827.98	815.39
MW-0516-S1	10/9/2012	15.16	32.60	827.98	812.82
MW-0516-S1	3/12/2013	13.33	32.60	827.98	814.65
MW-0516-S1	9/24/2013	14.08	32.79	827.98	813.90
MW-0516-S1	4/22/2014	12.74	32.80	827.98	815.24
MW-0516-S1	9/3/2014	14.46	32.84	827.98	813.52
MW-0516-S1	3/10/2015	13.40	32.80	827.98	814.58
MW-0516-S1	9/8/2015	13.55	32.78	827.98	814.43
MW-0516-S1	3/10/2016	12.94	32.78	827.98	815.04
MW-0516-S2	10/20/2005	14.37	68.38	827.97	813.60
MW-0516-S2	10/25/2005	14.38	68.38	827.97	813.59
MW-0516-S2	3/23/2006	11.46	68.05	827.97	816.51
MW-0516-S2	3/31/2006	10.61	68.05	827.97	817.36
MW-0516-S2	4/28/2006	11.55	NM	827.97	816.42
MW-0516-S2	12/5/2006	10.55	NM	827.97	817.42
MW-0516-S2	3/8/2007	11.40	68.11	827.97	816.57
MW-0516-S2	1/16/2008	14.11	68.26	827.97	813.86
MW-0516-S2	11/11/2008	19.99	68.05	827.97	807.98
MW-0516-S2	2/17/2009	16.58	NM	827.97	811.39
MW-0516-S2	6/12/2009	14.71	NM	827.97	813.26

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0516-S2	4/13/2010	13.72	68.18	827.97	814.25
MW-0516-S2	4/20/2011	14.02	68.10	827.97	813.95
MW-0516-S2	3/12/2013	14.38	68.10	827.97	813.59
MW-0516-S2	9/24/2013	17.03	68.26	827.97	810.94
MW-0516-S2	4/22/2014	14.92	69.09	827.97	813.05
MW-0516-S2	9/3/2014	18.61	69.48	827.97	809.36
MW-0516-S2	3/10/2015	16.16	NM	827.97	811.81
MW-0516-S2	9/8/2015	14.52	69.38	827.97	813.45
MW-0516-S2	3/10/2016	14.58	68.79	827.97	813.39
MW-0517-I2	10/18/2005	13.02	40.13	826.56	813.54
MW-0517-I2	10/25/2005	12.45	40.13	826.56	814.11
MW-0517-I2	3/22/2006	10.25	39.89	826.56	816.31
MW-0517-I2	3/31/2006	9.45	39.89	826.56	817.11
MW-0517-I2	4/28/2006	10.73	NM	826.56	815.83
MW-0517-I2	12/5/2006	10.10	NM	826.56	816.46
MW-0517-I2	3/8/2007	10.61	39.90	826.56	815.95
MW-0517-I2	1/16/2008	12.55	40.05	826.56	814.01
MW-0517-I2	11/11/2008	15.14	39.96	826.56	811.42
MW-0517-I2	2/17/2009	13.32	NM	826.56	813.24
MW-0517-S1	9/20/2005	12.44	30.72	826.47	814.03
MW-0517-S1	10/18/2005	12.17	30.85	826.47	814.30
MW-0517-S1	10/25/2005	12.17	30.85	826.47	814.30
MW-0517-S1	3/22/2006	10.70	30.63	826.47	815.77
MW-0517-S1	3/31/2006	9.91	30.63	826.47	816.56
MW-0517-S1	4/28/2006	10.64	NM	826.47	815.83
MW-0517-S1	12/5/2006	9.48	NM	826.47	816.99
MW-0517-S1	3/8/2007	10.42	30.51	826.47	816.05
MW-0517-S1	1/16/2008	11.23	30.70	826.47	815.24
MW-0517-S1	11/11/2008	14.47	30.60	826.47	812.00
MW-0517-S1	2/17/2009	12.65	NM	826.47	813.82
MW-0517-S1	6/12/2009	11.34	NM	826.47	815.13
MW-0517-S1	10/9/2012	13.88	30.62	826.47	812.59
MW-0517-S1	3/12/2013	11.98	30.62	826.47	814.49
MW-0517-S1	9/24/2013	12.87	30.75	826.47	813.60
MW-0517-S1	4/22/2014	11.65	30.76	826.47	814.82
MW-0517-S1	9/3/2014	13.20	30.32	826.47	813.27
MW-0517-S1	3/10/2015	12.17	30.07	826.47	814.30
MW-0517-S1	9/8/2015	12.27	29.78	826.47	814.20
MW-0517-S1	3/10/2016	11.77	29.86	826.47	814.70
MW-0602-B1	3/24/2006	9.12	86.17	825.36	816.24
MW-0602-B1	3/31/2006	8.32	86.17	825.36	817.04
MW-0602-B1	4/28/2006	9.16	NM	825.36	816.20
MW-0602-B1	12/5/2006	7.78	NM	825.36	817.58

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0602-B1	3/8/2007	9.03	86.21	825.36	816.33
MW-0602-B1	1/16/2008	11.55	86.25	825.36	813.81
MW-0602-B1	11/11/2008	17.37	86.27	825.36	807.99
MW-0602-B1	2/17/2009	13.94	NM	825.36	811.42
MW-0602-B1	6/12/2009	12.16	NM	825.36	813.20
MW-0602-B1	4/13/2010	11.04	86.31	825.36	814.32
MW-0602-B1	9/5/2010	16.11	86.90	825.36	809.25
MW-0602-B1	4/20/2011	11.61	86.19	825.36	813.75
MW-0602-B1	9/27/2011	13.80	86.45	825.36	811.56
MW-0602-S1	3/24/2006	11.70	28.31	825.3	813.60
MW-0602-S1	3/31/2006	10.93	28.31	825.3	814.37
MW-0602-S1	4/28/2006	10.90	NM	825.3	814.40
MW-0602-S1	12/5/2006	9.94	NM	825.3	815.36
MW-0602-S1	3/8/2007	10.68	27.20	825.3	814.62
MW-0602-S1	1/16/2008	11.10	27.41	825.3	814.20
MW-0602-S1	11/11/2008	13.93	27.11	825.3	811.37
MW-0602-S1	2/17/2009	12.20	NM	825.3	813.10
MW-0602-S1	6/12/2009	11.71	NM	825.3	813.59
MW-0602-S1	4/13/2010	11.36	27.31	825.3	813.94
MW-0602-S1	9/5/2010	12.79	27.24	825.3	812.51
MW-0602-S1	4/20/2011	11.01	27.07	825.3	814.29
MW-0602-S1	9/27/2011	11.65	27.39	825.3	813.65
MW-0602-S1	3/29/2012	11.30	27.20	825.3	814.00
MW-0602-S1	10/9/2012	12.64	27.00	825.3	812.66
MW-0602-S1	3/12/2013	11.62	27.00	825.3	813.68
MW-0602-S1	9/24/2013	12.64	27.20	825.3	812.66
MW-0602-S1	4/22/2014	11.52	24.09	825.3	813.78
MW-0602-S1	9/3/2014	12.79	27.06	825.3	812.51
MW-0602-S1	3/10/2015	12.04	26.96	825.3	813.26
MW-0602-S1	9/8/2015	NM	NM	825.3	NM
MW-0602-S1	3/10/2016	12.01	27.03	825.3	813.29
MW-0603-B1	3/24/2006	9.70	83.40	826.2	816.50
MW-0603-B1	3/31/2006	8.92	83.40	826.2	817.28
MW-0603-B1	4/28/2006	9.76	NM	826.2	816.44
MW-0603-B1	12/5/2006	8.35	NM	826.2	817.85
MW-0603-B1	3/8/2007	9.64	83.32	826.2	816.56
MW-0603-B1	1/16/2008	12.13	83.48	826.2	814.07
MW-0603-B1	11/11/2008	18.04	83.24	826.2	808.16
MW-0603-B1	2/17/2009	14.69	NM	826.2	811.51
MW-0603-B1	6/12/2009	12.86	NM	826.2	813.34
MW-0603-B1	4/13/2010	11.82	83.38	826.2	814.38
MW-0603-B1	9/5/2010	16.78	83.35	826.2	809.42
MW-0603-B1	4/20/2011	12.27	83.22	826.2	813.93
MW-0603-B1	9/27/2011	14.47	83.55	826.2	811.73

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0603-B1	3/10/2016	12.70	83.37	826.2	813.50
MW-0603-S1	3/24/2006	10.79	24.38	826.09	815.30
MW-0603-S1	3/31/2006	10.02	24.38	826.09	816.07
MW-0603-S1	4/28/2006	10.71	NM	826.09	815.38
MW-0603-S1	12/5/2006	9.59	NM	826.09	816.50
MW-0603-S1	3/8/2007	10.46	24.12	826.09	815.63
MW-0603-S1	1/16/2008	11.06	24.33	826.09	815.03
MW-0603-S1	11/11/2008	14.15	24.15	826.09	811.94
MW-0603-S1	2/17/2009	12.35	NM	826.09	813.74
MW-0603-S1	6/12/2009	11.25	NM	826.09	814.84
MW-0603-S1	4/13/2010	11.06	24.31	826.09	815.03
MW-0603-S1	9/5/2010	13.46	24.20	826.09	812.63
MW-0603-S1	4/20/2011	10.44	24.10	826.09	815.65
MW-0603-S1	9/27/2011	11.53	24.22	826.09	814.56
MW-0603-S1	3/29/2012	11.33	24.15	826.09	814.76
MW-0603-S1	10/9/2012	13.55	24.00	826.09	812.54
MW-0603-S1	3/12/2013	11.85	24.00	826.09	814.24
MW-0603-S1	9/24/2013	12.65	24.18	826.09	813.44
MW-0603-S1	4/22/2014	11.52	24.09	826.09	814.57
MW-0603-S1	9/3/2014	12.91	24.78	826.09	813.18
MW-0603-S1	3/10/2015	11.96	24.05	826.09	814.13
MW-0603-S1	9/8/2015	12.14	24.07	826.09	813.95
MW-0603-S1	3/10/2016	11.64	24.04	826.09	814.45
MW-0603-S2	3/24/2006	10.82	69.25	826.1	815.28
MW-0603-S2	3/31/2006	9.97	69.25	826.1	816.13
MW-0603-S2	4/28/2006	9.89	NM	826.1	816.21
MW-0603-S2	12/5/2006	8.46	NM	826.1	817.64
MW-0603-S2	3/8/2007	9.78	69.27	826.1	816.32
MW-0603-S2	1/16/2008	12.35	69.41	826.1	813.75
MW-0603-S2	11/11/2008	18.17	69.21	826.1	807.93
MW-0603-S2	2/17/2009	14.83	NM	826.1	811.27
MW-0603-S2	6/12/2009	12.98	NM	826.1	813.12
MW-0603-S2	4/13/2010	11.96	69.35	826.1	814.14
MW-0603-S2	9/5/2010	16.72	69.25	826.1	809.38
MW-0603-S2	4/20/2011	12.19	69.04	826.1	813.91
MW-0603-S2	9/27/2011	14.39	69.35	826.1	811.71
MW-0603-S2	3/29/2012	12.07	69.28	826.1	814.03
MW-0603-S2	10/9/2012	17.45	69.15	826.1	808.65
MW-0603-S2	3/12/2013	12.45	69.15	826.1	813.65
MW-0603-S2	9/24/2013	15.09	69.29	826.1	811.01
MW-0603-S2	4/22/2014	13.02	70.65	826.1	813.08
MW-0603-S2	9/3/2014	16.67	83.45	826.1	809.43
MW-0603-S2	3/10/2015	11.96	84.05	826.1	814.14
MW-0603-S2	9/8/2015	12.83	84.50	826.1	813.27

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0604-S1	3/22/2006	10.65	29.41	826.28	815.63
MW-0604-S1	3/31/2006	9.87	29.41	826.28	816.41
MW-0604-S1	4/28/2006	10.59	NM	826.28	815.69
MW-0604-S1	12/5/2006	9.45	NM	826.28	816.83
MW-0604-S1	3/8/2007	10.37	28.81	826.28	815.91
MW-0604-S1	1/16/2008	11.15	28.95	826.28	815.13
MW-0604-S1	11/11/2008	14.27	28.73	826.28	812.01
MW-0604-S1	2/17/2009	12.51	NM	826.28	813.77
MW-0604-S1	6/12/2009	11.26	NM	826.28	815.02
MW-0604-S1	10/9/2012	13.73	28.78	826.28	812.55
MW-0604-S1	3/12/2013	11.87	28.78	826.28	814.41
MW-0604-S1	9/24/2013	12.74	28.91	826.28	813.54
MW-0604-S1	4/22/2014	11.59	28.98	826.28	814.69
MW-0604-S1	9/3/2014	13.09	28.41	826.28	813.19
MW-0604-S1	3/10/2015	12.06	28.58	826.28	814.22
MW-0604-S1	9/8/2015	12.13	27.94	826.28	814.15
MW-0604-S1	3/10/2016	11.66	28.18	826.28	814.62
MW-0604-S2	3/22/2006	10.02	61.06	826.44	816.42
MW-0604-S2	3/31/2006	9.27	61.06	826.44	817.17
MW-0604-S2	4/28/2006	10.13	NM	826.44	816.31
MW-0604-S2	12/5/2006	8.70	NM	826.44	817.74
MW-0604-S2	3/8/2007	9.93	61.12	826.44	816.51
MW-0604-S2	1/16/2008	12.51	61.21	826.44	813.93
MW-0604-S2	11/11/2008	18.45	61.05	826.44	807.99
MW-0604-S2	2/17/2009	15.02	NM	826.44	811.42
MW-0604-S2	6/12/2009	13.17	NM	826.44	813.27
MW-0604-S2	4/13/2010	12.17	61.10	826.44	814.27
MW-0604-S2	9/5/2010	17.17	61.55	826.44	809.27
MW-0604-S2	4/20/2011	12.63	61.00	826.44	813.81
MW-0604-S2	9/27/2011	14.89	61.32	826.44	811.55
MW-0604-S2	3/29/2012	12.41	61.23	826.44	814.03
MW-0604-S2	10/9/2012	17.88	61.14	826.44	808.56
MW-0604-S2	3/12/2013	13.01	61.14	826.44	813.43
MW-0604-S2	9/24/2013	15.49	61.22	826.44	810.95
MW-0604-S2	4/22/2014	13.49	61.26	826.44	812.95
MW-0604-S2	9/3/2014	17.02	61.20	826.44	809.42
MW-0604-S2	3/10/2015	14.59	NM	826.44	811.85
MW-0604-S2	9/8/2015	12.97	61.11	826.44	813.47
MW-0604-S2	3/10/2016	12.98	NM	826.44	813.46
MW-0605-B1	3/22/2006	10.79	89.55	827.44	816.65
MW-0605-B1	3/31/2006	9.99	89.55	827.44	817.45
MW-0605-B1	4/28/2006	10.95	NM	827.44	816.49
MW-0605-B1	12/5/2006	9.49	NM	827.44	817.95
MW-0605-B1	3/8/2007	10.77	89.53	827.44	816.67

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0605-B1	1/16/2008	13.45	89.65	827.44	813.99
MW-0605-B1	11/11/2008	19.44	89.60	827.44	808.00
MW-0605-B1	2/17/2009	16.04	NM	827.44	811.40
MW-0605-B1	6/12/2009	14.11	NM	827.44	813.33
MW-0605-B1	4/13/2010	13.10	89.85	827.44	814.34
MW-0605-B1	9/5/2010	18.20	89.60	827.44	809.24
MW-0605-B1	4/20/2011	13.61	89.50	827.44	813.83
MW-0605-B1	9/27/2011	15.86	89.75	827.44	811.58
MW-0605-S1	3/22/2006	11.23	29.83	827.38	816.15
MW-0605-S1	3/31/2006	10.46	29.83	827.38	816.92
MW-0605-S1	4/28/2006	11.19	NM	827.38	816.19
MW-0605-S1	12/5/2006	9.97	NM	827.38	817.41
MW-0605-S1	3/8/2007	10.98	29.64	827.38	816.40
MW-0605-S1	1/16/2008	11.79	29.71	827.38	815.59
MW-0605-S1	11/11/2008	15.14	29.65	827.38	812.24
MW-0605-S1	2/17/2009	13.42	NM	827.38	813.96
MW-0605-S1	6/12/2009	11.91	NM	827.38	815.47
MW-0605-S1	4/13/2010	11.64	29.65	827.38	815.74
MW-0605-S1	9/5/2010	14.37	29.64	827.38	813.01
MW-0605-S1	4/20/2011	11.20	29.50	827.38	816.18
MW-0605-S1	9/27/2011	12.35	29.82	827.38	815.03
MW-0605-S1	3/29/2012	11.90	29.75	827.38	815.48
MW-0605-S1	10/9/2012	14.59	29.50	827.38	812.79
MW-0605-S1	3/12/2013	12.70	29.50	827.38	814.68
MW-0605-S1	9/24/2013	13.55	29.74	827.38	813.83
MW-0605-S1	4/22/2014	12.23	29.71	827.38	815.15
MW-0605-S1	9/3/2014	13.90	30.62	827.38	813.48
MW-0605-S1	3/10/2015	12.83	29.07	827.38	814.55
MW-0605-S1	9/8/2015	12.93	29.00	827.38	814.45
MW-0605-S1	3/10/2016	12.41	29.15	827.38	814.97
MW-0605-S2	3/22/2006	10.87	61.15	827.38	816.51
MW-0605-S2	3/31/2006	10.02	61.15	827.38	817.36
MW-0605-S2	4/28/2006	10.91	NM	827.38	816.47
MW-0605-S2	12/5/2006	9.44	NM	827.38	817.94
MW-0605-S2	3/8/2007	10.72	61.13	827.38	816.66
MW-0605-S2	1/16/2008	13.36	61.26	827.38	814.02
MW-0605-S2	11/11/2008	19.36	61.12	827.38	808.02
MW-0605-S2	2/17/2009	15.97	NM	827.38	811.41
MW-0605-S2	6/12/2009	14.06	NM	827.38	813.32
MW-0605-S2	4/13/2010	13.05	61.18	827.38	814.33
MW-0605-S2	9/5/2010	18.12	61.20	827.38	809.26
MW-0605-S2	4/20/2011	13.55	61.11	827.38	813.83
MW-0605-S2	9/27/2011	15.82	61.35	827.38	811.56
MW-0605-S2	3/29/2012	13.25	61.28	827.38	814.13

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0605-S2	10/9/2012	18.86	61.21	827.38	808.52
MW-0605-S2	3/12/2013	14.06	61.21	827.38	813.32
MW-0605-S2	9/24/2013	16.42	61.25	827.38	810.96
MW-0605-S2	4/22/2014	14.38	62.10	827.38	813.00
MW-0605-S2	9/3/2014	18.09	62.32	827.38	809.29
MW-0605-S2	3/10/2015	NM	NM	827.38	NM
MW-0605-S2	9/8/2015	14.02	61.18	827.38	813.36
MW-0605-S2	3/10/2016	13.91	NM	827.38	813.47
MW-0606-S1	3/23/2006	8.80	31.65	824.1	815.30
MW-0606-S1	3/31/2006	8.03	31.65	824.1	816.07
MW-0606-S1	4/28/2006	8.71	NM	824.1	815.39
MW-0606-S1	12/5/2006	7.67	NM	824.1	816.43
MW-0606-S1	3/8/2007	8.54	31.52	824.1	815.56
MW-0606-S1	11/11/2008	12.36	31.40	824.1	811.74
MW-0606-S1	2/17/2009	10.43	NM	824.1	813.67
MW-0606-S1	6/12/2009	8.38	NM	824.1	815.72
MW-0606-S1	4/13/2010	9.20	31.42	824.1	814.90
MW-0606-S1	10/9/2012	11.72	31.26	824.1	812.38
MW-0606-S1	3/12/2013	9.89	31.26	824.1	814.21
MW-0606-S1	9/24/2013	10.51	31.34	824.1	813.59
MW-0606-S1	4/22/2014	9.71	31.27	824.1	814.39
MW-0606-S1	9/3/2014	11.11	31.25	824.1	812.99
MW-0606-S1	3/10/2015	10.08	30.91	824.1	814.02
MW-0606-S1	9/8/2015	10.27	29.81	824.1	813.83
MW-0606-S1	3/10/2016	9.69	30.82	824.1	814.41
MW-0606-S2	3/23/2006	7.68	58.83	823.97	816.29
MW-0606-S2	3/31/2006	6.93	58.83	823.97	817.04
MW-0606-S2	4/28/2006	8.72	NM	823.97	815.25
MW-0606-S2	12/5/2006	6.35	NM	823.97	817.62
MW-0606-S2	3/8/2007	7.61	58.67	823.97	816.36
MW-0606-S2	11/11/2008	15.92	58.70	823.97	808.05
MW-0606-S2	2/17/2009	12.51	NM	823.97	811.46
MW-0606-S2	6/12/2009	10.68	NM	823.97	813.29
MW-0606-S2	9/5/2010	14.62	59.00	823.97	809.35
MW-0606-S2	4/20/2011	10.15	58.63	823.97	813.82
MW-0606-S2	9/27/2011	12.38	58.90	823.97	811.59
MW-0606-S2	3/29/2012	10.00	58.80	823.97	813.97
MW-0606-S2	10/9/2012	15.34	58.69	823.97	808.63
MW-0606-S2	3/12/013	10.47	58.69	823.97	813.50
MW-0606-S2	9/24/2013	13.00	58.85	823.97	810.97
MW-0606-S2	4/22/2014	11.06	58.84	823.97	812.91
MW-0606-S2	9/3/2014	14.46	58.82	823.97	809.51
MW-0606-S2	3/10/2015	12.10	NM	823.97	811.87
MW-0606-S2	9/8/2015	10.65	59.35	823.97	813.32

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0606-S2	3/10/2016	10.53	58.83	823.97	813.44
MW-0607-B1	1/16/2008	8.40	77.51	822.768	814.37
MW-0607-B1	11/11/2008	13.99	77.42	822.768	808.78
MW-0607-B1	2/17/2009	10.63	NM	822.768	812.14
MW-0607-B1	6/12/2009	8.95	NM	822.768	813.82
MW-0607-B1	4/13/2010	8.02	77.46	822.768	814.75
MW-0607-B1	9/5/2010	12.50	78.00	822.768	810.27
MW-0607-B1	4/20/2011	8.41	77.44	822.768	814.36
MW-0607-B1	9/27/2011	10.60	77.62	822.768	812.17
MW-0607-S1	3/24/2006	8.55	26.85	822.65	814.10
MW-0607-S1	3/31/2006	7.78	26.85	822.65	814.87
MW-0607-S1	4/28/2006	8.52	NM	822.65	814.13
MW-0607-S1	12/5/2006	7.68	NM	822.65	814.97
MW-0607-S1	3/8/2007	8.33	26.55	822.65	814.32
MW-0607-S1	1/16/2008	8.88	26.68	822.65	813.77
MW-0607-S1	11/11/2008	11.61	26.50	822.65	811.04
MW-0607-S1	2/17/2009	9.72	NM	822.65	812.93
MW-0607-S1	6/12/2009	9.12	NM	822.65	813.53
MW-0607-S1	4/13/2010	9.00	26.50	822.65	813.65
MW-0607-S1	9/5/2010	10.98	26.50	822.65	811.67
MW-0607-S1	4/20/2011	8.49	26.42	822.65	814.16
MW-0607-S1	9/27/2011	9.31	26.40	822.65	813.34
MW-0607-S1	3/29/2012	9.26	26.27	822.65	813.39
MW-0607-S1	10/9/2012	11.05	26.00	822.65	811.60
MW-0607-S1	3/12/2013	9.40	26.00	822.65	813.25
MW-0607-S1	9/24/2013	10.30	26.25	822.65	812.35
MW-0607-S1	4/22/2014	9.53	26.16	822.65	813.12
MW-0607-S1	9/3/2014	10.53	26.23	822.65	812.12
MW-0607-S1	3/10/2015	9.69	26.27	822.65	812.96
MW-0607-S1	9/8/2015	9.82	26.17	822.65	812.83
MW-0607-S1	3/10/2016	9.29	29.14	822.65	813.36
MW-0607-S2	3/8/2007	7.00	50.51	823.06	816.06
MW-0607-S2	1/16/2008	9.27	50.65	823.06	813.79
MW-0607-S2	11/11/2008	14.91	50.57	823.06	808.15
MW-0607-S2	2/17/2009	11.53	NM	823.06	811.53
MW-0607-S2	6/12/2009	9.83	NM	823.06	813.23
MW-0607-S2	4/13/2010	8.78	50.58	823.06	814.28
MW-0607-S2	9/5/2010	13.63	57.05	823.06	809.43
MW-0607-S2	4/20/2011	9.15	50.47	823.06	813.91
MW-0607-S2	9/27/2011	11.47	50.72	823.06	811.59
MW-0607-S2	3/29/2012	9.21	50.68	823.06	813.85
MW-0607-S2	10/9/2012	14.27	50.66	823.06	808.79
MW-0607-S2	3/12/2013	9.56	50.66	823.06	813.50

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0607-S2	9/24/2013	12.10	50.74	823.06	810.96
MW-0607-S2	4/22/2014	10.16	50.68	823.06	812.90
MW-0607-S2	9/3/2014	13.42	50.66	823.06	809.64
MW-0607-S2	3/10/2015	11.22	NM	823.06	811.84
MW-0607-S2	9/8/2015	9.91	46.85	823.06	813.15
MW-0607-S2	3/10/2016	9.77	50.69	823.06	813.29
MW-0608-B1	3/23/2006	9.84	91.07	825.97	816.13
MW-0608-B1	3/31/2006	9.05	91.07	825.97	816.92
MW-0608-B1	4/28/2006	9.79	NM	825.97	816.18
MW-0608-B1	12/5/2006	8.51	NM	825.97	817.46
MW-0608-B1	3/8/2007	9.72	89.59	825.97	816.25
MW-0608-B1	1/16/2008	12.18	89.67	825.97	813.79
MW-0608-B1	11/11/2008	17.90	89.65	825.97	808.07
MW-0608-B1	2/17/2009	14.49	NM	825.97	811.48
MW-0608-B1	6/12/2009	12.72	NM	825.97	813.25
MW-0608-B1	4/13/2010	11.69	83.99	825.97	814.28
MW-0608-B1	9/5/2010	16.58	90.08	825.97	809.39
MW-0608-B1	4/20/2011	12.25	89.52	825.97	813.72
MW-0608-B1	9/27/2011	14.36	89.75	825.97	811.61
MW-0608-S1	3/23/2006	11.74	30.81	825.97	814.23
MW-0608-S1	3/31/2006	10.97	30.81	825.97	815.00
MW-0608-S1	4/28/2006	11.66	NM	825.97	814.31
MW-0608-S1	12/5/2006	10.73	NM	825.97	815.24
MW-0608-S1	3/8/2007	11.43	30.38	825.97	814.54
MW-0608-S1	1/16/2008	11.94	30.45	825.97	814.03
MW-0608-S1	11/11/2008	14.67	30.20	825.97	811.30
MW-0608-S1	2/17/2009	12.93	NM	825.97	813.04
MW-0608-S1	6/12/2009	12.27	NM	825.97	813.70
MW-0608-S1	4/13/2010	12.13	30.11	825.97	813.84
MW-0608-S1	9/5/2010	14.08	29.96	825.97	811.89
MW-0608-S1	4/20/2011	11.50	29.90	825.97	814.47
MW-0608-S1	9/27/2011	12.38	30.00	825.97	813.59
MW-0608-S1	3/29/2012	12.19	30.02	825.97	813.78
MW-0608-S1	10/9/2012	14.10	29.60	825.97	811.87
MW-0608-S1	3/12/2013	12.42	29.60	825.97	813.55
MW-0608-S1	9/24/2013	13.35	29.40	825.97	812.62
MW-0608-S1	4/22/2014	12.47	29.26	825.97	813.50
MW-0608-S1	9/3/2014	13.58	28.94	825.97	812.39
MW-0608-S1	3/10/2015	12.70	28.73	825.97	813.27
MW-0608-S1	9/8/2015	12.93	28.58	825.97	813.04
MW-0608-S1	3/10/2016	12.38	28.62	825.97	813.59
MW-0608-S2	3/23/2006	9.71	67.75	825.97	816.26
MW-0608-S2	3/31/2006	8.86	67.75	825.97	817.11

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0608-S2	4/28/2006	9.76	NM	825.97	816.21
MW-0608-S2	12/5/2006	8.43	NM	825.97	817.54
MW-0608-S2	3/8/2007	9.70	67.76	825.97	816.27
MW-0608-S2	1/16/2008	12.10	68.91	825.97	813.87
MW-0608-S2	11/11/2008	17.84	67.80	825.97	808.13
MW-0608-S2	2/17/2009	14.45	NM	825.97	811.52
MW-0608-S2	6/12/2009	12.68	NM	825.97	813.29
MW-0608-S2	4/13/2010	11.59	67.85	825.97	814.38
MW-0608-S2	9/5/2010	16.55	68.25	825.97	809.42
MW-0608-S2	4/20/2011	12.12	67.70	825.97	813.85
MW-0608-S2	9/27/2011	14.31	67.99	825.97	811.66
MW-0608-S2	3/29/2012	11.90	67.90	825.97	814.07
MW-0608-S2	10/9/2012	17.22	67.75	825.97	808.75
MW-0608-S2	3/21/2013	12.43	67.75	825.97	813.54
MW-0608-S2	9/24/2013	14.96	67.04	825.97	811.01
MW-0608-S2	4/22/2014	13.02	68.94	825.97	812.95
MW-0608-S2	9/3/2014	16.41	67.81	825.97	809.56
MW-0608-S2	3/10/2015	14.10	NM	825.97	811.87
MW-0608-S2	9/8/2015	12.80	68.73	825.97	813.17
MW-0608-S2	3/10/2016	12.48	67.96	825.97	813.49
MW-0609-S1	3/23/2006	9.49	28.45	822.75	813.26
MW-0609-S1	3/31/2006	9.17	28.45	822.75	813.58
MW-0609-S1	4/28/2006	9.47	NM	822.75	813.28
MW-0609-S1	12/5/2006	8.62	NM	822.75	814.13
MW-0609-S1	3/9/2007	9.15	27.05	822.75	813.60
MW-0609-S1	1/16/2008	9.45	27.40	822.75	813.30
MW-0609-S1	11/11/2008	11.81	27.05	822.75	810.94
MW-0609-S1	2/17/2009	10.22	NM	822.75	812.53
MW-0609-S1	6/12/2009	9.73	NM	822.75	813.02
MW-0609-S1	4/13/2010	9.84	26.99	822.75	812.91
MW-0609-S1	9/5/2010	11.35	27.05	822.75	811.40
MW-0609-S1	4/20/2011	9.13	27.00	822.75	813.62
MW-0609-S1	9/27/2011	9.85	27.04	822.75	812.90
MW-0609-S1	3/29/2012	9.76	27.11	822.75	812.99
MW-0609-S1	10/9/2012	11.31	26.80	822.75	811.44
MW-0609-S1	3/12/2013	18.78	26.80	822.75	803.97
MW-0609-S1	9/24/2013	10.64	27.00	822.75	812.11
MW-0609-S1	4/22/2014	10.00	26.93	822.75	812.75
MW-0609-S1	9/3/2014	10.84	26.83	822.75	811.91
MW-0609-S1	9/8/2015	10.32	26.87	822.75	812.43
MW-0609-S1	3/10/2016	9.86	26.77	822.75	812.89
MW-0609-S2	12/5/2006	5.68	NM	823.09	817.41
MW-0609-S2	3/8/2007	6.93	61.32	823.09	816.16
MW-0609-S2	1/16/2008	9.24	61.44	823.09	813.85

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0609-S2	11/11/2008	14.97	61.30	823.09	808.12
MW-0609-S2	2/17/2009	11.60	NM	823.09	811.49
MW-0609-S2	6/12/2009	9.86	NM	823.09	813.23
MW-0609-S2	4/13/2010	8.77	62.43	823.09	814.32
MW-0609-S2	9/5/2010	13.69	61.45	823.09	809.40
MW-0609-S2	4/20/2011	9.22	61.30	823.09	813.87
MW-0609-S2	9/27/2011	11.52	61.59	823.09	811.57
MW-0609-S2	3/29/2012	9.15	61.52	823.09	813.94
MW-0609-S2	10/9/2012	14.36	26.80	823.09	808.73
MW-0609-S2	3/12/2013	9.62	26.80	823.09	813.47
MW-0609-S2	9/24/2013	12.15	61.54	823.09	810.94
MW-0609-S2	4/22/2014	10.21	61.49	823.09	812.88
MW-0609-S2	9/3/2014	13.53	61.51	823.09	809.56
MW-0609-S2	3/10/2015	11.23	NM	823.09	811.86
MW-0609-S2	9/8/2015	10.10	62.50	823.09	812.99
MW-0609-S2	3/10/2016	9.65	61.53	823.09	813.44
MW-0610-S1	12/5/2006	8.87	NM	822.55	813.68
MW-0610-S1	3/8/2007	9.42	31.55	822.55	813.13
MW-0610-S1	1/16/2008	9.97	31.59	822.55	812.58
MW-0610-S1	11/11/2008	11.85	31.46	822.55	810.70
MW-0610-S1	2/17/2009	10.39	NM	822.55	812.16
MW-0610-S1	6/12/2009	10.07	NM	822.55	812.48
MW-0610-S1	4/13/2010	10.28	31.49	822.55	812.27
MW-0610-S1	9/5/2010	11.55	31.65	822.55	811.00
MW-0610-S1	4/20/2011	9.55	31.42	822.55	813.00
MW-0610-S1	9/27/2011	11.18	31.68	822.55	811.37
MW-0610-S1	3/29/2012	10.13	31.64	822.55	812.42
MW-0610-S1	10/9/2012	11.39	31.44	822.55	811.16
MW-0610-S1	3/12/2013	10.16	31.44	822.55	812.39
MW-0610-S1	9/24/2013	10.85	31.63	822.55	811.70
MW-0610-S1	4/22/2014	9.45	31.65	822.55	813.10
MW-0610-S1	9/3/2014	11.06	31.59	822.55	811.49
MW-0610-S1	3/10/2015	10.41	31.64	822.55	812.14
MW-0610-S1	9/8/2015	10.59	31.67	822.55	811.96
MW-0610-S1	3/10/2016	10.11	31.65	822.55	812.44
MW-0611-S1	12/5/2006	4.97	NM	821.77	816.80
MW-0611-S1	3/8/2007	7.45	17.60	821.77	814.32
MW-0611-S1	1/16/2008	8.06	17.70	821.77	813.71
MW-0611-S1	2/17/2009	11.15	NM	821.77	810.62
MW-0611-S1	6/12/2009	10.00	NM	821.77	811.77
MW-0611-S1	4/13/2010	8.85	17.60	821.77	812.92
MW-0611-S1	9/5/2010	12.67	17.65	821.77	809.10
MW-0611-S1	10/9/2012	NM	NM	821.77	Could not Locate
MW-0612-S1	12/5/2006	9.13	NM	823.85	814.72

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0612-S1	3/8/2007	8.90	27.12	823.85	814.95
MW-0612-S1	1/16/2008	9.50	27.25	823.85	814.35
MW-0612-S1	11/11/2008	12.44	27.15	823.85	811.41
MW-0612-S1	2/17/2009	10.59	NM	823.85	813.26
MW-0612-S1	6/12/2009	9.71	NM	823.85	814.14
MW-0612-S1	3/29/2012	9.79	27.30	823.85	814.06
MW-0612-S1	10/9/2012	11.84	27.10	823.85	812.01
MW-0612-S1	3/12/2013	10.10	27.10	823.85	813.75
MW-0612-S1	9/24/2013	10.49	27.32	823.85	813.36
MW-0612-S1	4/22/2014	10.03	27.30	823.85	813.82
MW-0612-S1	9/3/2014	11.29	27.31	823.85	812.56
MW-0612-S1	3/10/2015	10.30	27.30	823.85	813.55
MW-0612-S1	9/8/2015	10.52	27.33	823.85	813.33
MW-0612-S1	3/10/2016	9.95	27.33	823.85	813.9
MW-0612-S2	12/5/2006	6.34	NM	823.84	817.50
MW-0612-S2	3/8/2007	7.59	54.94	823.84	816.25
MW-0612-S2	1/16/2008	10.00	55.10	823.84	813.84
MW-0612-S2	11/11/2008	15.74	55.00	823.84	808.10
MW-0612-S2	2/17/2009	12.34	NM	823.84	811.50
MW-0612-S2	6/12/2009	10.57	NM	823.84	813.27
MW-0612-S2	3/29/2012	9.78	55.14	823.84	814.06
MW-0612-S2	10/9/2012	15.14	54.90	823.84	808.70
MW-0612-S2	3/12/2013	10.35	54.90	823.84	813.49
MW-0612-S2	9/24/2013	12.57	55.15	823.84	811.27
MW-0612-S2	4/22/2014	10.91	55.11	823.84	812.93
MW-0612-S2	9/3/2014	14.28	55.07	823.84	809.56
MW-0612-S2	3/10/2015	11.96	NM	823.84	811.88
MW-0612-S2	9/8/2015	10.60	54.65	823.84	813.24
MW-0612-S2	3/10/2016	10.38	55.98	823.84	813.46
MW-0613-S1	12/5/2006	5.87	NM	822.03	816.16
MW-0613-S1	3/8/2007	6.72	25.36	822.03	815.31
MW-0613-S1	1/16/2008	7.40	25.50	822.03	814.63
MW-0613-S1	11/11/2008	10.57	25.39	822.03	811.46
MW-0613-S1	2/17/2009	8.53	NM	822.03	813.50
MW-0613-S1	6/12/2009	7.61	NM	822.03	814.42
MW-0613-S1	4/13/2010	7.40	25.40	822.03	814.63
MW-0613-S1	9/5/2010	9.85	25.40	822.03	812.18
MW-0613-S1	4/20/2011	6.79	25.58	822.03	815.24
MW-0613-S1	9/27/2011	7.84	25.58	822.03	814.19
MW-0613-S1	3/29/2012	7.53	25.34	822.03	814.50
MW-0613-S1	10/9/2012	9.96	25.37	822.03	812.07
MW-0613-S1	3/12/2013	8.01	25.37	822.03	814.02
MW-0613-S1	9/24/2013	9.03	25.55	822.03	813.00
MW-0613-S1	4/22/2014	7.97	25.55	822.03	814.06

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0613-S1	9/3/2014	9.34	25.55	822.03	812.69
MW-0613-S1	3/10/2015	8.32	24.81	822.03	813.71
MW-0613-S1	9/8/2015	8.49	25.61	822.03	813.54
MW-0613-S1	3/10/2016	7.86	25.78	822.03	814.17
MW-0614-B1	12/5/2006	9.13	NM	826.94	817.81
MW-0614-B1	3/8/2007	10.41	89.69	826.94	816.53
MW-0614-B1	1/16/2008	13.06	89.75	826.94	813.88
MW-0614-B1	11/11/2008	18.92	89.62	826.94	808.02
MW-0614-B1	2/17/2009	15.55	NM	826.94	811.39
MW-0614-B1	6/12/2009	13.69	NM	826.94	813.25
MW-0614-B1	4/13/2010	12.68	89.75	826.94	814.26
MW-0614-B1	9/5/2010	17.66	90.20	826.94	809.28
MW-0614-B1	4/20/2011	13.10	89.60	826.94	813.84
MW-0614-B1	9/27/2011	15.31	89.90	826.94	811.63
MW-0614-S2	12/5/2006	9.05	NM	826.81	817.76
MW-0614-S2	3/8/2007	10.33	57.68	826.81	816.48
MW-0614-S2	1/16/2008	13.00	57.80	826.81	813.81
MW-0614-S2	11/11/2008	18.81	57.55	826.81	808.00
MW-0614-S2	2/17/2009	15.45	NM	826.81	811.36
MW-0614-S2	6/12/2009	13.58	NM	826.81	813.23
MW-0614-S2	4/13/2010	12.58	57.80	826.81	814.23
MW-0614-S2	9/5/2010	17.57	58.05	826.81	809.24
MW-0614-S2	4/20/2011	12.97	57.65	826.81	813.84
MW-0614-S2	9/27/2011	15.21	57.90	826.81	811.60
MW-0614-S2	3/29/2012	12.84	57.85	826.81	813.97
MW-0614-S2	10/9/2012	18.27	57.70	826.81	808.54
MW-0614-S2	3/12/2013	13.25	57.70	826.81	813.56
MW-0614-S2	9/24/2013	15.91	57.91	826.81	810.90
MW-0614-S2	4/22/2014	13.78	57.87	826.81	813.03
MW-0614-S2	9/3/2014	16.43	57.85	826.81	810.38
MW-0614-S2	3/10/2015	15.13	NM	826.81	811.68
MW-0614-S2	9/8/2015	13.36	57.95	826.81	813.45
MW-0614-S2	3/10/2016	13.41	57.88	826.81	813.4
MW-0615-B1	12/5/2006	12.12	NM	824.74	812.62
MW-0615-B1	3/8/2007	13.37	78.28	824.74	811.37
MW-0615-B1	1/16/2008	13.84	78.45	824.74	810.90
MW-0615-B1	11/11/2008	18.16	78.19	824.74	806.58
MW-0615-B1	2/17/2009	14.75	NM	824.74	809.99
MW-0615-B1	6/12/2009	14.12	NM	824.74	810.62
MW-0615-B1	4/13/2010	13.53	78.36	824.74	811.21
MW-0615-B1	9/5/2010	17.05	78.35	824.74	807.69
MW-0615-B1	4/20/2011	14.05	78.26	824.74	810.69
MW-0615-B1	9/27/2011	15.19	78.45	824.74	809.55

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0616-B1	12/5/2006	4.58	110.55	822.3	817.72
MW-0616-B1	3/8/2007	5.88	110.55	822.3	816.42
MW-0616-B1	1/16/2008	8.60	110.55	822.3	813.70
MW-0616-B1	11/11/2008	14.52	110.51	822.3	807.78
MW-0616-B1	2/17/2009	11.02	NM	822.3	811.28
MW-0616-B1	6/12/2009	9.18	NM	822.3	813.12
MW-0616-B1	4/13/2010	8.23	NM	822.3	814.07
MW-0616-B1	9/5/2010	13.10	NM	822.3	809.20
MW-0616-B1	4/20/2011	8.51	--	822.3	813.79
MW-0616-B1	9/27/2011	10.76	110.80	822.3	811.54
MW-0616-S1	12/5/2006	6.58	NM	822.06	815.48
MW-0616-S1	3/8/2007	7.11	24.36	822.06	814.95
MW-0616-S1	1/16/2008	7.47	24.50	822.06	814.59
MW-0616-S1	11/11/2008	9.84	24.25	822.06	812.22
MW-0616-S1	2/17/2009	8.31	NM	822.06	813.75
MW-0616-S1	6/12/2009	7.53	NM	822.06	814.53
MW-0616-S1	4/13/2010	7.49	24.30	822.06	814.57
MW-0616-S1	9/5/2010	9.28	24.25	822.06	812.78
MW-0616-S1	4/20/2011	6.39	24.22	822.06	815.67
MW-0616-S1	9/27/2011	7.53	24.40	822.06	814.53
MW-0616-S1	3/29/2012	7.68	24.53	822.06	814.38
MW-0616-S1	10/9/2012	9.32	24.19	822.06	812.74
MW-0616-S1	3/12/2013	8.09	24.19	822.06	813.97
MW-0616-S1	9/24/2013	8.59	24.24	822.06	813.47
MW-0616-S1	4/22/2014	7.83	24.24	822.06	814.23
MW-0616-S1	9/3/2014	8.70	24.21	822.06	813.36
MW-0616-S1	3/10/2015	7.97	22.50	822.06	814.09
MW-0616-S1	9/8/2015	8.29	24.21	822.06	813.77
MW-0616-S1	3/10/2016	7.79	24.17	822.06	814.27
MW-0617-B1	3/8/2007	10.02	NM	826.63	816.61
MW-0617-B1	1/16/2008	12.58	NM	826.63	814.05
MW-0617-B1	11/11/2008	18.49	NM	826.63	808.14
MW-0617-B1	2/17/2009	15.08	NM	826.63	811.55
MW-0617-B1	6/12/2009	13.25	NM	826.63	813.38
MW-0617-S1	3/8/2007	11.18	29.36	826.47	815.29
MW-0617-S1	1/16/2008	11.90	29.50	826.47	814.57
MW-0617-S1	11/11/2008	14.87	29.40	826.47	811.60
MW-0617-S1	2/17/2009	13.07	NM	826.47	813.40
MW-0617-S1	6/12/2009	12.03	NM	826.47	814.44
MW-0617-S1	10/9/2012	14.27	29.41	826.47	812.20
MW-0617-S1	3/12/2013	12.64	29.41	826.47	813.83
MW-0617-S1	9/24/2013	13.38	29.50	826.47	813.09
MW-0617-S1	4/22/2014	12.32	29.47	826.47	814.15

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0617-S1	9/3/2014	13.63	29.51	826.47	812.84
MW-0617-S1	3/10/2015	12.72	29.49	826.47	813.75
MW-0617-S1	9/8/2015	12.89	29.30	826.47	813.58
MW-0617-S1	3/10/2016	12.37	29.58	826.47	814.1
MW-0617-S2	3/8/2007	10.21	63.37	826.66	816.45
MW-0617-S2	1/16/2008	12.80	63.15	826.66	813.86
MW-0617-S2	11/11/2008	18.68	63.20	826.66	807.98
MW-0617-S2	2/17/2009	15.33	NM	826.66	811.33
MW-0617-S2	6/12/2009	13.44	NM	826.66	813.22
MW-0617-S2	6/12/2009	13.44	NM	826.66	813.22
MW-0617-S2	3/10/2016	13.02	NM	826.66	813.64
MW-0618-S1	12/5/2006	8.13	NM	824.84	816.71
MW-0618-S1	3/8/2007	9.08	27.00	824.84	815.76
MW-0618-S1	1/16/2008	9.72	27.12	824.84	815.12
MW-0618-S1	11/11/2008	13.07	27.05	824.84	811.77
MW-0618-S1	2/17/2009	11.09	NM	824.84	813.75
MW-0618-S1	6/12/2009	9.94	NM	824.84	814.90
MW-0618-S1	4/13/2010	9.73	27.31	824.84	815.11
MW-0618-S1	9/5/2010	12.32	27.05	824.84	812.52
MW-0618-S1	4/20/2011	9.13	26.99	824.84	815.71
MW-0618-S1	9/27/2011	10.28	27.20	824.84	814.56
MW-0618-S1	3/29/2012	10.06	27.19	824.84	814.78
MW-0618-S1	10/9/2012	12.43	26.99	824.84	812.41
MW-0618-S1	3/12/2013	10.51	26.99	824.84	814.33
MW-0618-S1	9/24/2013	11.48	27.18	824.84	813.36
MW-0618-S1	4/22/2014	10.28	27.17	824.84	814.56
MW-0618-S1	9/3/2014	11.78	27.18	824.84	813.06
MW-0618-S1	3/10/2015	10.68	NM	824.84	814.16
MW-0618-S1	9/8/2015	10.93	27.19	824.84	813.91
MW-0618-S1	3/10/2016	10.25	27.18	824.84	814.59
MW-0619-S1	12/5/2006	10.13	NM	827.46	817.33
MW-0619-S1	3/8/2007	11.12	26.07	827.46	816.34
MW-0619-S1	1/16/2008	11.88	26.20	827.46	815.58
MW-0619-S1	11/11/2008	15.29	26.10	827.46	812.17
MW-0619-S1	2/17/2009	13.51	NM	827.46	813.95
MW-0619-S1	6/12/2009	12.03	NM	827.46	815.43
MW-0619-S1	10/9/2012	14.69	26.07	827.46	812.77
MW-0619-S1	3/12/2013	12.85	26.07	827.46	814.61
MW-0619-S1	9/24/2013	13.65	26.25	827.46	813.81
MW-0619-S1	4/22/2014	12.34	26.24	827.46	815.12
MW-0619-S1	9/3/2014	14.02	26.26	827.46	813.44
MW-0619-S1	3/10/2015	12.93	26.24	827.46	814.53
MW-0619-S1	9/8/2015	13.05	26.26	827.46	814.41

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0619-S1	3/10/2016	12.55	26.33	827.46	814.91
MW-0620-S1	12/5/2006	9.94	NM	827.39	817.45
MW-0620-S1	3/8/2007	10.97	18.36	827.39	816.42
MW-0620-S1	1/16/2008	11.78	18.46	827.39	815.61
MW-0620-S1	11/11/2008	15.15	18.45	827.39	812.24
MW-0620-S1	2/17/2009	13.41	NM	827.39	813.98
MW-0620-S1	6/12/2009	11.89	NM	827.39	815.50
MW-0620-S1	4/13/2010	11.60	18.39	827.39	815.79
MW-0620-S1	9/5/2010	13.85	18.40	827.39	813.54
MW-0620-S1	4/20/2011	11.07	18.34	827.39	816.32
MW-0620-S1	9/27/2011	12.19	18.55	827.39	815.20
MW-0620-S1	3/29/2012	11.95	18.50	827.39	815.44
MW-0620-S1	10/9/2012	14.60	19.38	827.39	812.79
MW-0620-S1	3/12/2013	12.82	19.38	827.39	814.57
MW-0620-S1	9/24/2013	13.55	18.54	827.39	813.84
MW-0620-S1	4/22/2014	12.19	18.52	827.39	815.20
MW-0620-S1	9/3/2014	13.15	18.52	827.39	814.24
MW-0620-S1	3/10/2015	13.17	18.53	827.39	814.22
MW-0620-S1	9/8/2015	12.97	18.32	827.39	814.42
MW-0620-S1	3/10/2016	12.31	18.62	827.39	815.08
MW-0621-S1	12/5/2006	9.53	NM	826.72	817.19
MW-0621-S1	3/8/2007	10.49	24.55	826.72	816.23
MW-0621-S1	1/16/2008	11.19	24.66	826.72	815.53
MW-0621-S1	11/11/2008	14.62	24.58	826.72	812.10
MW-0621-S1	2/17/2009	12.84	NM	826.72	813.88
MW-0621-S1	6/12/2009	11.39	NM	826.72	815.33
MW-0621-S1	4/13/2010	11.15	24.63	826.72	815.57
MW-0621-S1	9/5/2010	13.86	24.62	826.72	812.86
MW-0621-S1	4/20/2011	10.68	24.54	826.72	816.04
MW-0621-S1	9/27/2011	11.81	24.78	826.72	814.91
MW-0621-S1	3/29/2012	11.47	24.71	826.72	815.25
MW-0621-S1	10/9/2012	14.05	24.61	826.72	812.67
MW-0621-S1	3/12/2013	12.19	24.61	826.72	814.53
MW-0621-S1	9/24/2013	13.00	24.73	826.72	813.72
MW-0621-S1	4/22/2014	11.71	24.72	826.72	815.01
MW-0621-S1	9/3/2014	13.31	24.74	826.72	813.41
MW-0621-S1	3/10/2015	12.28	24.73	826.72	814.44
MW-0621-S1	9/8/2015	12.38	24.53	826.72	814.34
MW-0621-S1	3/10/2016	11.90	24.85	826.72	814.82
MW-0622-S1	12/5/2006	11.03	NM	828.57	817.54
MW-0622-S1	3/8/2007	12.07	23.78	828.57	816.50
MW-0622-S1	1/16/2008	12.90	23.85	828.57	815.67
MW-0622-S1	11/11/2008	16.27	23.82	828.57	812.30

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0622-S1	2/17/2009	14.59	NM	828.57	813.98
MW-0622-S1	6/12/2009	12.98	NM	828.57	815.59
MW-0622-S1	10/9/2012	15.71	23.75	828.57	812.86
MW-0622-S1	3/12/2013	13.89	23.75	828.57	814.68
MW-0622-S1	9/24/2013	14.66	23.92	828.57	813.91
MW-0622-S1	4/22/2014	13.24	23.94	828.57	815.33
MW-0622-S1	9/3/2014	15.02	23.89	828.57	813.55
MW-0622-S1	3/10/2015	13.95	23.98	828.57	814.62
MW-0622-S1	9/8/2015	14.02	23.96	828.57	814.55
MW-0622-S1	3/10/2016	13.55	24.02	828.57	815.02
MW-0622-S2	12/5/2006	10.54	NM	828.66	818.12
MW-0622-S2	3/8/2007	11.81	65.94	828.66	816.85
MW-0622-S2	1/16/2008	14.01	66.05	828.66	814.65
MW-0622-S2	11/11/2008	20.76	65.95	828.66	807.90
MW-0622-S2	2/17/2009	17.31	NM	828.66	811.35
MW-0622-S2	6/12/2009	15.32	NM	828.66	813.34
MW-0622-S2	4/13/2010	14.28	66.00	828.66	814.38
MW-0622-S2	9/5/2010	19.50	66.05	828.66	809.16
MW-0622-S2	4/20/2011	14.82	65.89	828.66	813.84
MW-0622-S2	9/27/2011	17.13	66.15	828.66	811.53
MW-0622-S2	3/29/2012	14.40	66.09	828.66	814.26
MW-0622-S2	10/9/2012	20.24	65.95	828.66	808.42
MW-0622-S2	3/12/2013	15.10	65.95	828.66	813.56
MW-0622-S2	9/24/2013	17.70	66.10	828.66	810.96
MW-0622-S2	4/22/2014	15.61	67.07	828.66	813.05
MW-0622-S2	9/3/2014	19.32	66.98	828.66	809.34
MW-0622-S2	3/10/2015	16.82	NM	828.66	811.84
MW-0622-S2	9/8/2015	15.13	66.50	828.66	813.53
MW-0622-S2	3/10/2016	15.21	NM	828.66	813.45
MW-0623-S1	3/8/2007	12.37	25.04	829.09	816.72
MW-0623-S1	1/16/2008	13.17	25.17	829.09	815.92
MW-0623-S1	11/11/2008	16.58	25.18	829.09	812.51
MW-0623-S1	2/17/2009	14.96	NM	829.09	814.13
MW-0623-S1	6/12/2009	13.37	NM	829.09	815.72
MW-0623-S1	4/13/2010	13.00	25.10	829.09	816.09
MW-0623-S1	9/5/2010	15.79	25.10	829.09	813.30
MW-0623-S1	4/20/2011	12.62	25.00	829.09	816.47
MW-0623-S1	9/27/2011	13.80	25.26	829.09	815.29
MW-0623-S1	3/29/2012	13.32	25.20	829.09	815.77
MW-0623-S1	10/9/2012	16.04	25.05	829.09	813.05
MW-0623-S1	3/12/2013	14.23	25.05	829.09	814.86
MW-0623-S1	9/24/2013	14.94	25.22	829.09	814.15
MW-0623-S1	4/22/2014	13.53	25.21	829.09	815.56
MW-0623-S1	9/3/2014	15.31	25.23	829.09	813.78

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0623-S1	3/10/2015	14.27	25.25	829.09	814.82
MW-0623-S1	9/8/2015	14.83	23.43	829.09	814.26
MW-0623-S1	3/10/2016	14.86	25.34	829.09	814.23
MW-0702-B1	1/16/2008	10.65	72.70	825.03	814.38
MW-0702-B1	11/11/2008	16.57	72.46	825.03	808.46
MW-0702-B1	2/17/2009	13.19	NM	825.03	811.84
MW-0702-B1	6/12/2009	11.30	NM	825.03	813.73
MW-0702-B1	4/13/2010	10.29	72.60	825.03	814.74
MW-0702-B1	9/5/2010	15.27	72.60	825.03	809.76
MW-0702-B1	4/20/2011	10.72	72.47	825.03	814.31
MW-0702-B1	9/27/2011	12.89	72.73	825.03	812.14
MW-0703-B1	1/16/2008	13.30	111.32	823.61	810.31
MW-0703-B1	11/11/2008	17.01	111.32	823.61	806.60
MW-0703-B1	2/17/2009	13.66	NM	823.61	809.95
MW-0703-B1	6/12/2009	13.21	NM	823.61	810.40
MW-0703-B1	4/13/2010	12.45	NM	823.61	811.16
MW-0703-B1	9/5/2010	16.10	NM	823.61	807.51
MW-0703-B1	4/20/2011	12.73	--	823.61	810.88
MW-0703-B1	9/27/2011	14.12	111.75	823.61	809.49
MW-0704-S1	1/16/2008	9.84	29.31	825.38	815.54
MW-0704-S1	11/11/2008	13.15	29.20	825.38	812.22
MW-0704-S1	2/17/2009	11.27	NM	825.38	814.11
MW-0704-S1	6/12/2009	10.04	NM	825.38	815.34
MW-0704-S1	4/13/2010	9.83	29.23	825.38	815.55
MW-0704-S1	9/5/2010	12.38	29.20	825.38	813.00
MW-0704-S1	4/20/2011	9.26	29.17	825.38	816.12
MW-0704-S1	9/27/2011	10.39	29.39	825.38	814.99
MW-0704-S1	3/29/2012	10.14	29.35	825.38	815.24
MW-0704-S1	10/9/2012	12.52	29.16	825.38	812.86
MW-0704-S1	3/12/2013	10.67	29.16	825.38	814.71
MW-0704-S1	9/24/2013	11.55	29.36	825.38	813.83
MW-0704-S1	4/22/2014	10.38	29.36	825.38	815.00
MW-0704-S1	9/3/2014	11.86	29.33	825.38	813.51
MW-0704-S1	3/10/2015	10.80	29.28	825.38	814.58
MW-0704-S1	9/8/2015	11.01	29.39	825.38	814.37
MW-0704-S1	3/10/2016	10.41	29.38	825.38	814.97
MW-0705-S1	1/16/2008	11.20	25.78	826.16	814.96
MW-0705-S1	11/11/2008	13.71	25.68	826.16	812.45
MW-0705-S1	2/17/2009	11.86	NM	826.16	814.30
MW-0705-S1	6/12/2009	10.79	NM	826.16	815.37
MW-0705-S1	10/9/2012	13.10	25.65	826.16	813.06
MW-0705-S1	3/12/2013	11.31	25.65	826.16	814.85

Table 3
Monitoring Well Groundwater Elevation Date
Former GM Delco Plant 5
Kokomo, Indiana

ARCADIS Design & Consultancy for natural and built assets

Well ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-0705-S1	9/24/2013	12.20	25.85	826.16	813.96
MW-0705-S1	4/22/2014	11.09	25.82	826.16	815.07
MW-0705-S1	9/3/2014	12.50	25.82	826.16	813.66
MW-0705-S1	3/10/2015	11.91	25.80	826.16	814.25
MW-0705-S1	9/8/2015	11.67	25.87	826.16	814.49
MW-0705-S1	3/10/2016	11.08	25.85	826.16	815.08
PM-1301	3/10/2016	12.42	24.23	828.92	816.50
MW-1501-S1	3/10/2016	11.67	19.04	828.32	816.65
MW-1502-S1	3/10/2016	12.79	28.07	828.45	815.66
MW-1503-S1	3/10/2016	12.98	28.68	828.24	815.26
MW-1504-S1	3/10/2016	12.98	27.62	828.24	815.26
MW-1505-S1	3/10/2016	13.02	32.17	828.19	815.17
MW-1506-S1	3/10/2016	13.32	34.17	827.89	814.57
MW-1507-S1	3/10/2016	13.42	33.67	827.77	814.35
MW-1508-S1	3/10/2016	14.46	35.21	826.69	812.23

Notes:
AMSL - Above mean sea level
NM - Reading not collected

Table 4
Groundwater Analytical Data Summary Screened against Groundwater Vapor Intrusion Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)					
				1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0516-S1	10/19/2005	MW-0516-2L (101905)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/23/2006	MW-0516-S1 (032306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	6/25/2009	MW-0516-S1 (062509)-LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	6/25/2009	MW-0516-S1 (062509)-PDB	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	5/5/2010	MW-0516-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	5/6/2010	MW-0516-S1 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0516-S1	10/28/2010	MW-0516-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	5/13/2011	MW-0516-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0516-S1	10/18/2011	MW-0516-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	10/31/2012	MW-0516-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	4/2/2013	MW-0516-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	10/16/2013	MW-0516-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	5/13/2014	MW-0516-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	9/25/2014	MW-0516-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/31/2015	MW-0516-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.26 J	< 2.0 U
MW-0516-S1	9/30/2015	MW-0516-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/30/2016	MW-0516-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0516-S1	3/30/2016	FD-1(033016)-LM	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	3/24/2006	MW-0602-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	11/7/2006	MW-0602-S1 (110706)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	10/31/2012	MW-0602-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	10/16/2013	MW-0602-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	5/13/2014	MW-0602-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	9/25/2014	MW-0602-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0602-S1	3/30/2016	MW-0602-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	3/24/2006	MW-0603-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	11/8/2006	MW-0603-S1 (110806)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	6/25/2009	MW-0603-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S1	5/5/2010	MW-0603-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0603-S1	10/28/2010	MW-0603-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	5/13/2011	MW-0603-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0603-S1	10/18/2011	MW-0603-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	10/31/2012	MW-0603-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	10/16/2013	MW-0603-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	5/13/2014	MW-0603-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	9/25/2014	MW-0603-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	3/31/2015	MW-0603-S1(033115)-AO-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0603-S1	9/30/2015	MW-0603-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.27 J	< 2.0 U
MW-0603-S1	3/30/2016	MW-0603-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0606-S1	3/23/2006	MW-0606-S1 (032306)	Low-Flow	< 5.0 U	230	< 5.0 UJ	42	970	< 2.0 U
MW-0606-S1	11/6/2006	MW-0606-S1 (110606)	Low-Flow	< 5.0 U	210	< 5.0 U	43	770	1.0 J
MW-0606-S1	10/31/2012	MW-0606-S1(103112)LF	Low-Flow	< 5.0 U	288 D	< 5.0 U	76.5	**2,410 D**	< 2.0 U
MW-0606-S1	10/31/2012	MW-0606-S1(103112)PDB	PDB	< 5.0 U	281 D	< 5.0 U	78.8	**2,380 D**	1.2 J
MW-0606-S1	4/2/2013	MW-0606-S1 (040213) PDB	PDB	< 5.0 U	394 EJ	< 5.0 U	105	**4,490 EJ**	2.0
MW-0606-S1	10/16/2013	MW-0606-S1(101613)	PDB	< 5.0 U	314 D	< 5.0 U	92.8	**2,650 D**	1.3 J
MW-0606-S1	5/13/2014	MW-0606-S1(051314)	PDB	< 25.0 U	365	< 25.0 U	75.9	**3,280 D**	< 10.0 U
MW-0606-S1	9/25/2014	MW-0606-S1(092514)PDB	PDB	< 5.0 U	448 D	< 5.0 U	81.0	**2,580 DJ**	1.2 J
MW-0606-S1	3/31/2015	MW-0606-S1(033115)-PDB	PDB	< 50.0 U	428	< 50.0 U	94.6	**3,030 D**	< 20.0 U
MW-0606-S1	9/30/2015	MW-0606-S1(093015)PDB	PDB	0.42 J	285	< 5.0 U	45.6	1,260	0.43 J
MW-0606-S1	3/9/2016	MW-0606-S1(030916)	Low-Flow	< 5.0 U	329 D	< 5.0 U	62.6	**1,960 D**	< 2.0 U

Table 4
Groundwater Analytical Data Summary Screened against Groundwater Vapor Intrusion Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)					
				1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0607-S1	3/24/2006	MW-0607-S1 (032406)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	11/6/2006	MW-0607-S1 (110606)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	6/25/2009	MW-0607-S1 (062509)	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	5/5/2010	MW-0607-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	5/6/2010	MW-0607-S1 (050610)LF	Low-Flow	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0607-S1	10/28/2010	MW-0607-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	5/13/2011	MW-0607-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0607-S1	10/18/2011	MW-0607-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	10/31/2012	MW-0607-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0607-S1	4/2/2013	MW-0607-S1 (040213) PDB	PDB	< 5.0 U	2.9 J	< 5.0 U	< 5.0 U	36.9 J	< 2.0 U
MW-0607-S1	10/16/2013	MW-0607-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	5/13/2014	MW-0607-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	9/25/2014	MW-0607-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	4.0 J	< 2.0 U
MW-0607-S1	3/31/2015	MW-0607-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	9/30/2015	MW-0607-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0607-S1	3/30/2016	MW-0607-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0608-S1	3/23/2006	MW-0608-S1 (032306)	Low-Flow	< 5.0 U	2.9 J	< 5.0 UJ	< 5.0 U	2.0 J	< 2.0 U
MW-0608-S1	11/7/2006	MW-0608-S1 (110706)	Low-Flow	< 5.0 U	35	< 5.0 U	3.3 J	1.7 J	< 2.0 U
MW-0608-S1	6/26/2009	MW-0608-S1 (062609)	Low-Flow	< 5 U	24.5	< 5 U	< 5 U	< 5 U	4.9
MW-0608-S1	10/31/2012	MW-0608-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0608-S1	4/2/2013	MW-0608-S1 (040213) PDB	PDB	< 5.0 U	30.9	< 5.0 U	< 5.0 U	5.2 J	1.7 J
MW-0608-S1	10/16/2013	MW-0608-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0608-S1	5/13/2014	MW-0608-S1(051314)	PDB	< 5.0 U	148	< 5.0 U	11.7	3.5 J	5.4
MW-0608-S1	9/25/2014	MW-0608-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.5 J	< 2.0 U
MW-0608-S1	3/31/2015	MW-0608-S1(033115)-PDB	PDB	0.33 J	144	< 5.0 U	13.1	< 5.0 U	4.0
MW-0608-S1	9/30/2015	MW-0608-S1(093015)PDB	PDB	0.54 J	243	< 5.0 U	35.3	< 5.0 U	5.8
MW-0608-S1	3/30/2016	MW-0608-S1(033016)PDB	PDB	< 5.0 U	97.8	< 5.0 U	9.3	< 5.0 U	2.6
MW-0609-S1	3/23/2006	MW-0609-S1 (032306)	Low-Flow	< 5.0 U	61	< 5.0 UJ	9.7	260	< 2.0 U
MW-0609-S1	11/9/2006	MW-0609-S1 (110906)	Low-Flow	< 5.0 U	55	< 5.0 U	9.0	220	< 2.0 U
MW-0609-S1	6/26/2009	FD-1-PS (062609)	Low-Flow	< 5 U	225	< 5 U	25.4	69.4	3.7
MW-0609-S1	6/26/2009	MW-0609-S1 (062609)	Low-Flow	< 5 U	226	< 5 U	26.1	69.9	3.6
MW-0609-S1	10/31/2012	MW-0609-S1(103112)PDB	PDB	< 5.0 U	3.8 J	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0609-S1	4/2/2013	MW-0609-S1 (040213) PDB	PDB	< 5.0 U	18.9	< 5.0 U	< 5.0 U	8.2 J	< 2.0 U
MW-0609-S1	10/16/2013	MW-0609-S1(101613)	PDB	< 5.0 U	489 D	< 5.0 U	40.1	5.9	7.8
MW-0609-S1	5/13/2014	MW-0609-S1(051314)	PDB	< 5.0 U	198 D	< 5.0 U	16.2	40.1	5.4
MW-0609-S1	9/25/2014	MW-0609-S1(092514)PDB	PDB	< 5.0 U	26.6	< 5.0 U	2.7 J	< 5.0 U	6.2
MW-0609-S1	9/30/2015	MW-0609-S1(093015)PDB	PDB	< 5.0 U	347	< 5.0 U	53.1	248	3.2
MW-0609-S1	3/30/2016	MW-0609-S1(033016)PDB	PDB	< 5.0 U	18.6	< 5.0 U	< 5.0 U	7.9	< 2.0 U
MW-0610-S1	11/10/2006	MW-0610-S1 (111006)	Low-Flow	< 5.0 U	40	< 5.0 U	4.2 J	< 5.0 U	1.9 J
MW-0610-S1	11/12/2008	MW-0610-S1 (111208)	Low-Flow	< 5.0 U	19.1	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/5/2010	MW-0610-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0610-S1	10/28/2010	MW-0610-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/13/2011	MW-0610-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0610-S1	10/18/2011	MW-0610-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	10/31/2012	MW-0610-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	10/16/2013	MW-0610-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	5/13/2014	MW-0610-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	9/25/2014	MW-0610-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.0 J	< 2.0 U
MW-0610-S1	3/31/2015	MW-0610-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	9/30/2015	MW-0610-S1(093015)PDB	PDB	< 5.0 U	2.1 J	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0610-S1	3/30/2016	MW-0610-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U

Table 4
Groundwater Analytical Data Summary Screened against Groundwater Vapor Intrusion Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)					
				1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0612-S1	11/9/2006	MW-0612-S1 (110906)	Low-Flow	< 5.0 U	130	< 5.0 U	43	**3,300**	2.4
MW-0612-S1	3/7/2007	FD-1-MG (030707)	Low-Flow	< 5.0 U	132	< 5.0 U	38.6	**3,760**	3.1
MW-0612-S1	3/7/2007	MW-0612-S1 (030707)	Low-Flow	< 5.0 U	161	< 5.0 U	38.9	**3,950**	< 2.0 U
MW-0612-S1	6/25/2009	MW-0612-S1 (062509)	Low-Flow	< 50 U	207	< 50 U	< 50 U	**4,370**	< 20 U
MW-0612-S1	4/19/2012	MW-0612-S1 (041912)-PDB	Low-Flow	< 5.0 U	223	< 5.0 U	44.9	**4,750 D**	15.1
MW-0612-S1	10/31/2012	FD-2(103112)PDB-WK	PDB	< 5.0 U	850 D	< 5.0 U	141	675 D	< 2.0 U
MW-0612-S1	10/31/2012	MW-0612-S1(103112)LF	Low-Flow	< 5.0 U	185	< 5.0 U	45.8	**2,490 D**	11.8
MW-0612-S1	10/31/2012	MW-0612-S1(103112)PDB	PDB	< 5.0 U	275	< 5.0 U	48.5	**5,440 D**	24.5
MW-0612-S1	4/2/2013	MW-0612-S1 (040213) PDB	PDB	< 5.0 U	191	< 5.0 U	41.0	**3,720 EJ**	9.3
MW-0612-S1	10/16/2013	MW-0612-S1(101613)	PDB	< 5.0 U	242	< 5.0 U	49.1	**3,220 D**	12.4
MW-0612-S1	5/13/2014	MW-0612-S1(051314)	PDB	< 5.0 U	248 D	< 5.0 U	46.2	**3,400 D**	13.2
MW-0612-S1	9/25/2014	MW-0612-S1(092514)PDB	PDB	< 5.0 U	251	< 5.0 U	43.2	**3,190 DJ**	13.7
MW-0612-S1	3/31/2015	MW-0612-S1(033115)-PDB	PDB	0.65 J	292	< 5.0 U	49.6	**3,870 D**	11.6
MW-0612-S1	9/30/2015	MW-0612-S1(093015)PDB	PDB	0.43 J	268	< 5.0 U	62.5	**4,420**	7.6
MW-0612-S1	3/9/2016	MW-0612-S1(030916)	Low-Flow	< 25.0 U	193	< 25.0 U	47.2	**2,380 D**	< 10.0 U
MW-0613-S1	11/10/2006	MW-0613-S1 (111006)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	11/12/2008	MW-0613-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/5/2010	MW-0613-S1 (050510)	PDB	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 2 U
MW-0613-S1	10/28/2010	MW-0613-S1(102810)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/13/2011	MW-0613-S1(051311)	PDB	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
MW-0613-S1	10/18/2011	MW-0613-S1(101811)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	10/31/2012	MW-0613-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.2 UB	< 2.0 U
MW-0613-S1	4/2/2013	MW-0613-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	24.0 J	< 2.0 U
MW-0613-S1	10/16/2013	MW-0613-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	5/13/2014	MW-0613-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	9/25/2014	MW-0613-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.9 J	< 2.0 U
MW-0613-S1	3/31/2015	MW-0613-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	9/30/2015	MW-0613-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0613-S1	3/30/2016	MW-0613-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	3/7/2007	MW-0617-S1 (030707)	Low-Flow	< 5.0 U	< 5.0 U	48.1	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	11/12/2008	MW-0617-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	18.3	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	12/29/2008	MW-0617-S1 (122908)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	10/31/2012	MW-0617-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	10/16/2013	MW-0617-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	5/13/2014	MW-0617-S1 (051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	9/25/2014	MW-0617-S1(092514)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	3/31/2015	MW-0617-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	0.29 J	< 2.0 U
MW-0617-S1	9/30/2015	MW-0617-S1(093015)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0617-S1	3/30/2016	MW-0617-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	11/13/2006	MW-0618-S1 (111306)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	11/12/2008	MW-0618-S1 (111208)	Low-Flow	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	10/31/2012	MW-0618-S1(103112)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UB	< 2.0 U
MW-0618-S1	4/2/2013	MW-0618-S1 (040213) PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	5.2 J	< 2.0 U
MW-0618-S1	10/16/2013	MW-0618-S1(101613)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	5/13/2014	MW-0618-S1(051314)	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0618-S1	3/31/2015	MW-0618-S1(033115)-PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	0.29 J	< 5.0 U	< 2.0 U
MW-0618-S1	9/30/2015	MW-0618-S1(093015)PDB	PDB	< 5.0 U	0.91 J	< 5.0 U	0.74 J	0.28 J	< 2.0 U
MW-0618-S1	3/30/2016	MW-0618-S1(033016)PDB	PDB	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 2.0 U
MW-0704-S1	11/13/2008	MW-0704-S1 (111308)	Low-Flow	< 5.0 U	408	< 5.0 U	71.8	1,370	< 2.0 U

Table 4
Groundwater Analytical Data Summary Screened against Groundwater Vapor Intrusion Criteria
Former GM Delco Plant 5
Kokomo, Indiana

Location	Date	Sample ID	Sampling Method	Concentration (µg/L)					
				1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
MW-0704-S1	6/25/2009	MW-0704-S1 (062509)	Low-Flow	< 5 U	571	< 5 U	103	1,200	5.6
MW-0704-S1	10/31/2012	MW-0704-S1(103112)PDB	PDB	< 5.0 U	635 D	< 5.0 U	81.3	**1,640 D**	2.9
MW-0704-S1	4/2/2013	MW-0704-S1 (040213) PDB	PDB	< 5.0 U	714 D	< 5.0 U	96.1	**2,000 D**	2.6
MW-0704-S1	10/16/2013	MW-0704-S1(101613)	PDB	< 5.0 U	628 D	< 5.0 U	99.5	**1,830 D**	4.5
MW-0704-S1	5/13/2014	MW-0704-S1(051314)	PDB	< 25.0 U	606	< 25.0 U	77.4	**2,080 D**	< 10.0 U
MW-0704-S1	9/25/2014	MW-0704-S1(092514)PDB	PDB	3.1 J	704 D	< 5.0 U	109	**3,240 DJ**	5.1
MW-0704-S1	3/31/2015	MW-0704-S1(033115)-PDB	PDB	2.8 J	740	< 25.0 U	101	**2,640 D**	3.7 J
MW-0704-S1	9/30/2015	MW-0704-S1(093015)PDB	PDB	1.1 J	620	< 5.0 U	94.9	**1,880**	4.8
MW-0704-S1	3/9/2016	MW-0704-S1(030916)	Low-Flow	< 25.0 U	660	< 25.0 U	89.5	1,370 D	< 10.0 U
MW-0705-S1	11/13/2008	MW-0705-S1 (111308)	Low-Flow	< 5.0 U	37.2	< 5.0 U	9.4	187	< 2.0 U
MW-0705-S1	6/26/2009	MW-0705-S1 (062609)-LF	Low-Flow	< 5 U	50.0	< 5 U	14.9	178	5.1
MW-0705-S1	6/26/2009	MW-0705-S1 (062609)-PDB	PDB	< 5 U	34.0	< 5 U	9.0	86.3	4.8
MW-0705-S1	10/31/2012	MW-0705-S1(103112)PDB	PDB	< 5.0 U	39.8	< 5.0 U	9.4	146	4.2
MW-0705-S1	4/2/2013	MW-0705-S1 (040213) PDB	PDB	< 5.0 U	46.8	< 5.0 U	13.7	177	4.1
MW-0705-S1	10/16/2013	MW-0705-S1(101613)	PDB	< 5.0 U	50.3	< 5.0 U	11.9	185	3.9
MW-0705-S1	5/13/2014	MW-0705-S1(051314)	PDB	< 5.0 U	42.1	< 5.0 U	10.7	131	4.2
MW-0705-S1	9/25/2014	MW-0705-S1(092514)PDB	PDB	< 5.0 U	40.6	< 5.0 U	9.3	115	3.1
MW-0705-S1	3/31/2015	MW-0705-S1(033115)-PDB	PDB	< 5.0 U	47.9	< 5.0 U	12.1	148	3.6
MW-0705-S1	9/30/2015	MW-0705-S1(093015)PDB	PDB	< 5.0 U	59.5	< 5.0 U	18.5	176	3.2
MW-0705-S1	3/30/2016	MW-0705-S1(033016)PDB	PDB	< 5.0 U	46.5	< 5.0 U	11.6	135	3.4
Residential				**55,120**	**41,260**	**44,270**	**23,430**	**1,540**	**540**
Commercial/Industrial				**77,160**	**57,760**	**61,980**	**32,800**	**2,150**	**1,810**

Notes:

Results are reported in micrograms per liter (µg/L)

The data are screened against site-specific Groundwater Vapor Intrusion Screening Criteria for residential and commercial/industrial values

Results exceeding the residential standards are bold

Results exceeding the comercial/industrial standards are bold and shaded gray

LF - Low Flow Sampling Technique

PDB - Passive Diffusion Bag Sampling Technique

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit

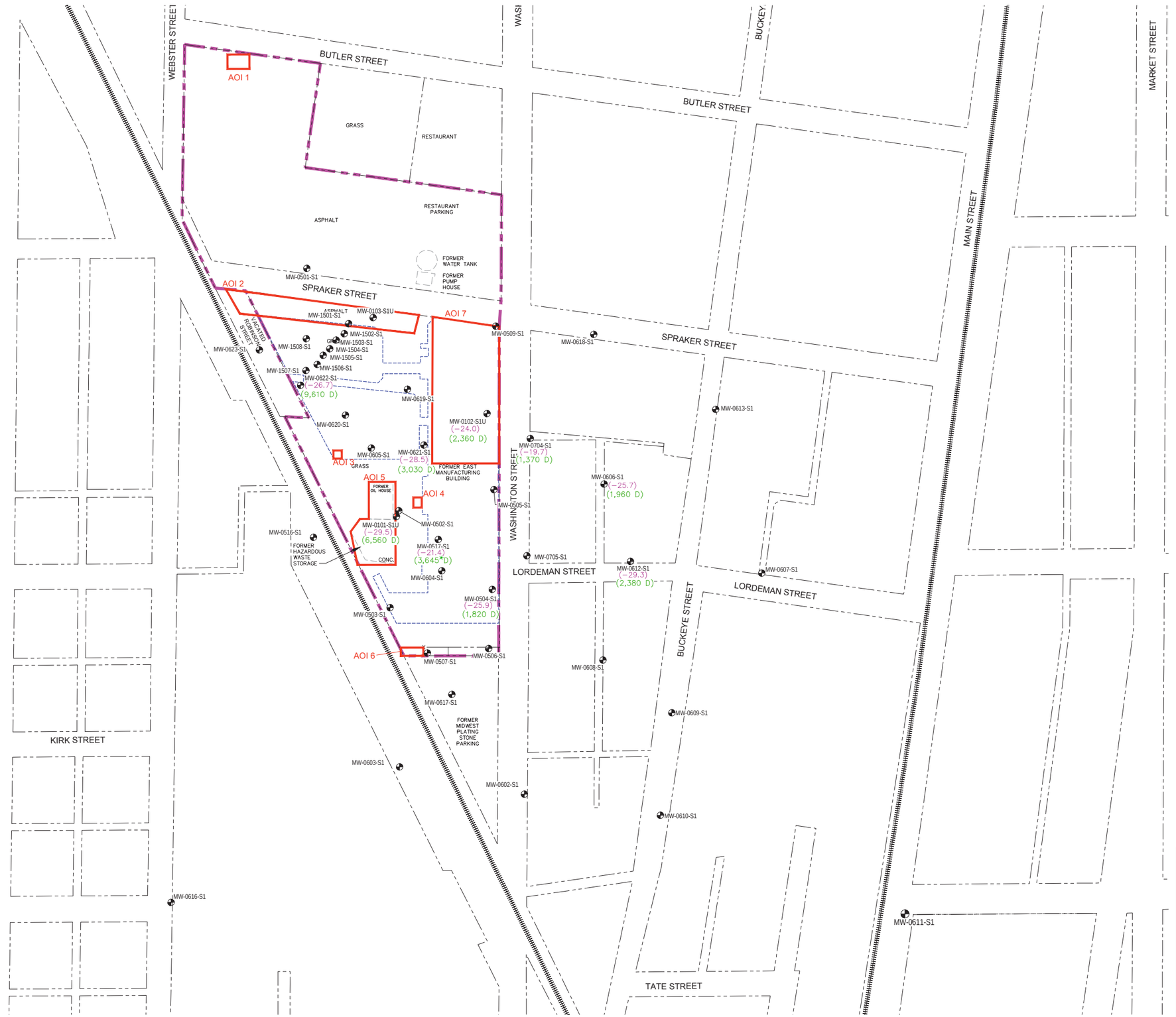
D - Concentration is based on a diluted sample analysis

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only

UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation

UB - Compound considered non-detect at the listed value due to associated blank contamination

FIGURES



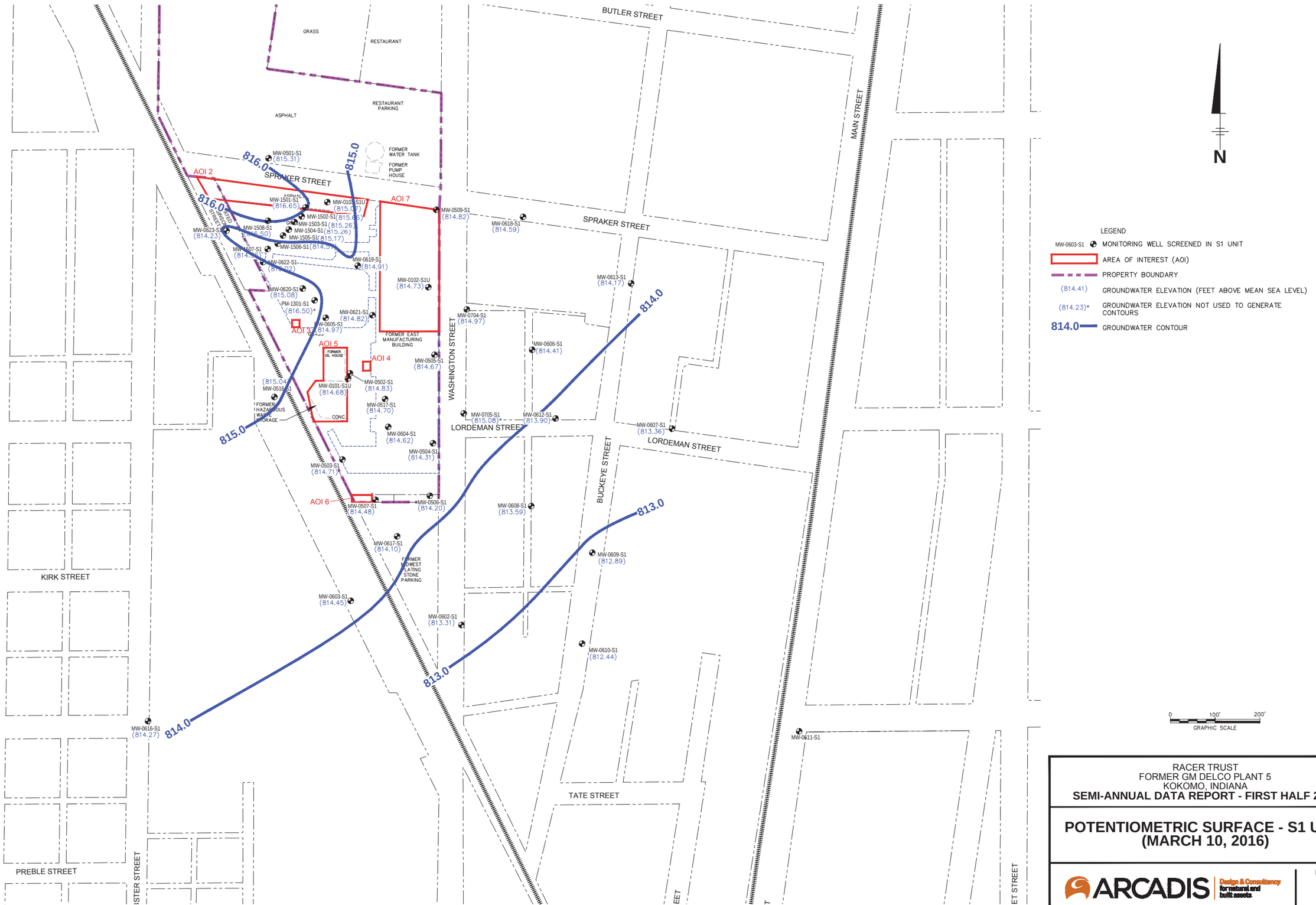
RACER TRUST
FORMER GM DELCO PLANT 5
KOKOMO, INDIANA
SEMI-ANNUAL DATA REPORT - FIRST HALF 2016

TCE GROUNDWATER COMPOUND-SPECIFIC ISOTOPE ANALYTICAL RESULTS - MARCH 9, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY:Syracuse DIVGROUP:Env-141 DB:A.Schilling LD:A.Schilling PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVITY\00884\2016\000007\DWG\SADR000884C05.dwg LAYOUT:1 SAVED: 7/5/2016 2:49 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/5/2016 2:49 PM BY: SCHILLING, ADAM
XREFS:
00743X01
00884XLD
IMAGES:
PROJECTNAME: ---



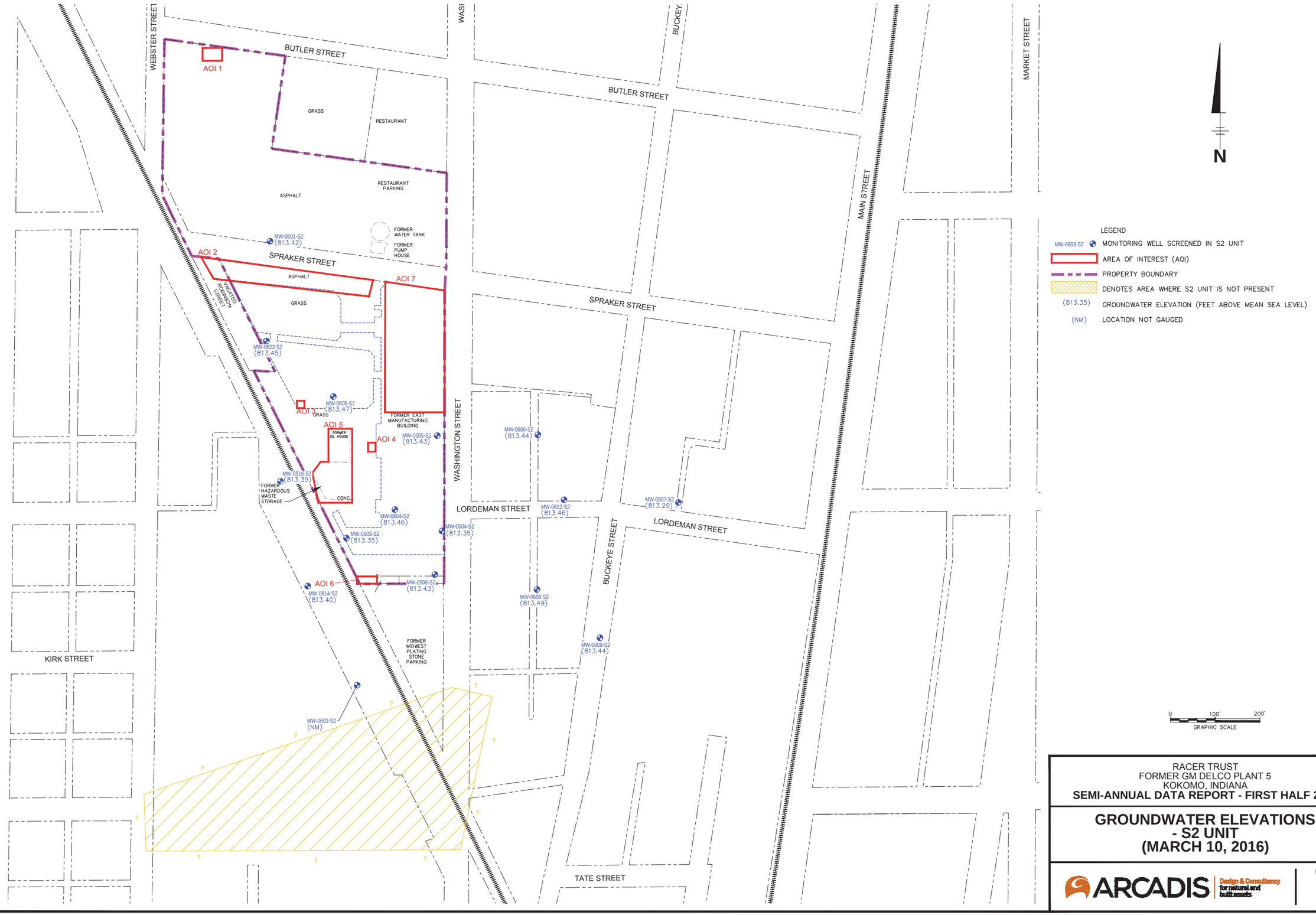
RACER TRUST
FORMER GM DELCO PLANT 5
KOKOMO, INDIANA
SEMI-ANNUAL DATA REPORT - FIRST HALF 2016

POTENTIOMETRIC SURFACE - S1 UNIT (MARCH 10, 2016)

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY:Syracuse DIV/GROUP:Env-141 DB:A.Schilling LD:A.Schilling PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00088420160000\7DWG\SADR00088420160000\7DWG\SADR00088420160000\7DWG\SADR



RACER TRUST
FORMER GM DELCO PLANT 5
KOKOMO, INDIANA
SEMI-ANNUAL DATA REPORT - FIRST HALF 2016

GROUNDWATER ELEVATIONS - S2 UNIT (MARCH 10, 2016)

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY:Syracuse DIV/GROUP:Env-141 DB:A.Schilling LD:A.Schilling PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\IN000884\2016\000007\DWG\SADR\000884W02.dwg LAYOUT: 3 SAVED: 7/5/2016 2:50 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/5/2016 2:50 PM BY: SCHILLING, ADAM
XREFS: IMAGES: PROJECTNAME: ----
007743X01
008894XLD

PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 7/5/2016 3:31 PM BY: SCHILLING, ADAM
SAVED: 7/5/2016 2:52 PM ACADVER: 19.1S (LMS TECH)
LAYOUT: 4 LYR:ON=*;OFF=*REF
PM: DLAY DB: G.STOWELL
G:\ENVCAD\SYRACUSE\ACTIN\00088420160000\7\DWG\SADR\00088420160000701.dwg
XREFS: 00884XLD 00743X01
IMAGES:
PROJECTNAME: ----
CITY: SYRACUSE DIV/GROUP: 141

MW-0501-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	4.5 J	4.1 J	2.6 J	< 5.0 U
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	5.4	0.36 J	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0623-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	< 100 U	0.46 J	0.82 J	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	< 5.0 U	0.47 J	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0622-S1	9/25/2014	3/31/2015	9/30/2015	3/9/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	Low-Flow
1,1,1-Trichloroethane	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
1,1-Dichloroethane	< 5.0 U [< 25.0 U]	< 100 U	3.5 J [3.4 J]	< 100 U
1,1-Dichloroethene	**7.3 [< 25.0 U]**	< 100 U	**7.6 [7.2]**	< 100 U
Benzene	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
Chloroform (Trichloromethane)	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
cis-1,2-Dichloroethene	**1960 DJ [1660 DJ]**	**1750**	**1520 D [1550 D]**	**946**
Cyclohexane	< 100 U [< 500 U]	< 2000 U	< 100 U [< 100 U]	< 2000 U
Methylene chloride	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
Tetrachloroethene	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
Toluene	< 5.0 U [< 25.0 U]	< 100 U	< 5.0 U [< 5.0 U]	< 100 U
trans-1,2-Dichloroethene	27.1 [29.0]	35.8 J	32.9 [33.4]	< 100 U
Trichloroethene	**16000 D [10400 DJ]**	**21800 D**	**14700 D [11900 D]**	**9610 D**
Vinyl chloride	1.9 J [< 10.0 U]	< 40.0 U	1.8 J [1.8 J]	< 40.0 U

MW-0620-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
1,1-Dichloroethene	< 5.0 U	< 5.0 U	2.3 J	< 5.0 U [< 5.0 U]
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Chloroform (Trichloromethane)	6.4	6.3	1.5 J	< 5.0 U [< 5.0 U]
cis-1,2-Dichloroethene	9.2	19.6	**1100 D**	5.9 [5.0]
Cyclohexane	< 100 U	< 100 U	0.35 J	< 100 U [< 100 U]
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	11.3	< 5.0 U [< 5.0 U]
Trichloroethene	**4830 D**	**3000 D**	**1150 D**	**4410 D [4690 D]**
Vinyl chloride	< 2.0 U	1.1 J	**6.4**	< 2.0 U [< 2.0 U]

MW-0605-S1	12/1/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	1.8 J	2.8 J	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	12.7	12.0	16.0	14.7
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	1.0 J	1.4 J	< 5.0 U
Trichloroethene	**628 D**	**943 D**	**1210 D**	**742 D**
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0502-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	1.2 J	< 5.0 U	< 5.0 U
Cyclohexane	< 100 U	0.36 J	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	1.0 J	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0503-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	0.63 J	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0100-S1UU	9/25/2014	3/31/2015	9/30/2015	3/9/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	Low-Flow
1,1,1-Trichloroethane	< 25.0 U	< 25.0 U	< 5.0 U	< 25.0 U
1,1-Dichloroethane	< 25.0 U	4.2 J	2.7 J	< 25.0 U
1,1-Dichloroethene	< 25.0 U	**8.0 J**	**19.8**	< 25.0 U
Benzene	< 25.0 U	< 25.0 UB	2.9 J	< 25.0 U
Chloroform (Trichloromethane)	< 25.0 U	< 25.0 U	< 5.0 U	< 25.0 U
cis-1,2-Dichloroethene	**1030**	**1060**	**3160 D**	**1020**
Cyclohexane	< 500 U	< 500 U	< 100 U	< 500 U
Methylene chloride	< 25.0 U	< 25.0 U	< 5.0 U	< 25.0 U
Tetrachloroethene	< 25.0 U	< 25.0 U	< 5.0 U	< 25.0 U
Toluene	< 25.0 U	< 25.0 U	0.44 J	< 25.0 U
trans-1,2-Dichloroethene	53.6	56.1	114	62.0
Trichloroethene	**18100 DJ**	**17900 D**	**5200 D**	**6560 D**
Vinyl chloride	**31.9**	**32.8**	**79.6**	**59.3**

MW-0517-S1	9/25/2014	3/31/2015	9/30/2015	3/9/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	Low-Flow
1,1,1-Trichloroethane	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
1,1-Dichloroethane	< 5.0 U	< 25.0 U [2.0 J]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
1,1-Dichloroethene	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
Benzene	< 5.0 U	< 25.0 U [< 25.0 UB]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
Chloroform (Trichloromethane)	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
cis-1,2-Dichloroethene	**303 D**	**478 [512]**	**78.0 [80.7]**	**600 [601]**
Cyclohexane	< 100 U	< 500 U [< 500 U]	< 100 U [< 100 U]	< 500 U [< 500 U]
Methylene chloride	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
Tetrachloroethene	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
Toluene	< 5.0 U	< 25.0 U [< 25.0 U]	< 5.0 U [< 5.0 U]	< 25.0 U [< 25.0 U]
trans-1,2-Dichloroethene	62.3	67.7 [70.9]	44.8 [44.5]	72.0 [74.3]
Trichloroethene	**2290 D**	**2550 D [2940 D]**	**346 D [312 D]**	**3570 D [3720 D]**
Vinyl chloride	**2.4**	**3.9 J [4.7 J]**	< 2.0 U [< 2.0 U]	< 10.0 U [< 10.0 U]

MW-0604-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U [< 5.0 U]	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U [< 5.0 U]	2.6 J	0.98 J	< 5.0 U
1,1-Dichloroethene	< 5.0 U [< 5.0 U]	3.5 J	1.5 J	< 5.0 U
Benzene	< 5.0 U [< 5.0 U]	< 5.0 UB	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U [< 5.0 U]	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	**414 D [469 D]**	**370 D**	**353 D**	**1030 D**
Cyclohexane	< 100 U [< 100 U]	0.65 J	0.37 J	< 100 U
Methylene chloride	< 5.0 U [< 5.0 U]	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U [< 5.0 U]	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U [< 5.0 U]	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	51.5 [39.7]	112	52.7	97.2
Trichloroethene	**1410 D [1480 D]**	**2690 D**	**1240 D**	**3340 D**
Vinyl chloride	**24.8 [20.3]**	**57.6**	**12.5**	**37.7**

MW-0507-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	6.8	17.7	14.7
1,1-Dichloroethane	< 5.0 U	15.3	**27.7**	24.4
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	60.0	**83.8**	**75.8**
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	1.4 J	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	1.1 J	1.8 J	< 5.0 U
Trichloroethene	2.8 J	**5.6**	3.7 J	**5.1**
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0506-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	2.7 J	2.5 J	1.2 J	< 5.0 U
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	0.37 J	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0603-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 100 U	0.36 J	< 100 U	< 100 U
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	0.27 J	< 5.0 U
Trichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0504-S1	9/25/2014	3/31/2015	9/30/2015	3/9/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	Low-Flow
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
1,1-Dichloroethane	4.8 J	8.9	9.5	< 25.0 U
1,1-Dichloroethene	3.2 J	5.2	5.9	< 25.0 U
Benzene	< 5.0 U	< 5.0 UB	0.91 J	< 25.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
cis-1,2-Dichloroethene	**749 D**	**909 D**	**923 D**	**571**
Cyclohexane	< 100 U	< 100 U	0.52 J	< 500 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
Toluene	< 5.0 U	< 5.0 U	0.13 J	< 25.0 U
trans-1,2-Dichloroethene	109	**153**	**179**	92.2
Trichloroethene	**2540 D**	**3010 D**	**3000 D**	**1820 D**
Vinyl chloride	**14.7**	**24.1**	**19.4**	**8.9 J**

MW-0602-S1	10/16/2013	5/13/2014	9/25/2014	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0608-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	1.4 J	3.9 J	< 5.0 U
1,1-Dichloroethene	< 5.0 U	0.33 J	0.54 J	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	**144**	**243 D**	**97.8**
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	13.1	35.3	9.3
Trichloroethene	1.5 J	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	**4.9**	**5.8**	**2.6**

MW-0610-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	< 5.0 U	0.43 J	< 5.0 U	< 5.0 U
Cyclohexane	< 100 U	< 100 U	2.1 J	< 5.0 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	2.0 J	< 5.0 U	< 5.0 U	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0609-S1	5/13/2014	9/25/2014	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	**198 D**	26.6	**347 D**	18.6
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	18.2	2.7 J	53.1	< 5.0 U
Trichloroethene	**40.1**	< 5.0 U	**248**	**7.9**
Vinyl chloride	**5.4**	**6.2**	**3.2**	< 2.0 U

MW-0705-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	0.80 J	271 J	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	40.6	47.9	59.5	46.5
Cyclohexane	< 100 U	0.25 J	0.56 J	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	9.3	12.1	18.5	11.6
Trichloroethene	**115**	**148**	**176**	**135**
Vinyl chloride	**3.1**	**3.6**	**3.2**	**3.4**

MW-0505-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	6.6	8.3	8.3	6.8
Cyclohexane	< 100 U	< 100 U	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Trichloroethene	< 5.0 U	0.75 J	0.33 J	< 5.0 U
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U

MW-0612-S1	9/25/2014	3/31/2015	9/30/2015	3/9/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	Low-Flow
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
1,1-Dichloroethene	< 5.0 U	0.65 J	0.43 J	< 25.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
cis-1,2-Dichloroethene	**251**	**292**	**268 D**	**193**
Cyclohexane	< 100 U	0.32 J	< 100 U	< 500 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 25.0 U
trans-1,2-Dichloroethene	43.2	49.6	62.5	47.2
Trichloroethene	**3190 DJ**	**3870 D**	**4420 D**	**2380 D**
Vinyl chloride	**13.7**	**11.6**	**7.6**	< 10.0 U

MW-0516-S1	11/13/2006	11/13/2008	3/30/2016
	ug/L	ug/L	ug/L
	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
1,1-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Benzene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
cis-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Cyclohexane	< 100 U	< 100 U	< 100 U [< 100 U]
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Toluene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
trans-1,2-Dichloroethene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Trichloroethene	< 5.0 U	< 5.0 U	< 5.0 U [< 5.0 U]
Vinyl chloride	< 2.0 U	< 2.0 U	< 2.0 U [< 2.0 U]

MW-0619-S1	9/25/2014	3/31/2015	9/30/2015	3/30/2016
	ug/L	ug/L	ug/L	ug/L
	PDB	PDB	PDB	PDB
1,1,1-Trichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethane	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
1,1-Dichloroethene	< 5.0 U	< 5.0 U	0.89 J	< 5.0 U
Benzene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Chloroform (Trichloromethane)	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
cis-1,2-Dichloroethene	17.8	25.1	**195**	23.7
Cyclohexane	< 100 U	0.38 J	< 100 U	< 100 U
Methylene chloride	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Tetrachloroethene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Toluene	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
trans-1,2-

LEGEND

- MW-0603-S1 — MONITORING WELL SCREENED IN S1 UNIT
- AREA OF INTEREST (AOI)
- PROPERTY BOUNDARY
- FORMER BUILDING
- (135) — TRICHLOROETHYLENE (TCE) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 5 — ISOCONCENTRATION CONTOUR IN µg/L
- * — MW-0502-S1 WAS NOT USED FOR ISOCONCENTRATION CONTOUR GENERATION

NOTES

1. U – THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
2. D – CONCENTRATION IS BASED ON A DILUTED SAMPLE ANALYSIS.

RACER TRUST
FORMER GM DELCO PLANT 5
KOKOMO, INDIANA
SEMI-ANNUAL DATA REPORT - FIRST HALF 2016

TCE GROUNDWATER CONCENTRATION CONTOURS - S1 UNIT (MARCH 9 & MARCH 30, 2016)

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5

CITY:Syracuse DIV/GROUP:Env-141 DB:A.Schilling LD:A.Schilling PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACTIVE\00088420160000\DWG\SADR00088420f2.dwg LAYOUT:5 SAVED: 7/5/2016 11:33 AM ACADVER: 19.1S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE:PLTFULL.CTB PLOTTED: 7/5/2016 11:33 AM BY: SCHILLING, ADAM
XREFS:
00743X01
00884XLD
IMAGES:
PROJECTNAME:----

APPENDIX A

Soil Analytical Report, Groundwater Analytical Reports, and Data Validation Report (Provided on CD)

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50140212

Table Of Contents

Project Overview

Final Report with COC/SCUR 1

Organic

GC-MS Volatiles

Surrogate Recovery Summary (Form 2) 49

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) 53

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) 57

Method Blank Association Summary (Form 4) 61

Instrument Performance Check (Form 5) 65

Internal Standard Area & Retention Time Summary (Form8) 73

Analytical Results with Raw Data (Form 1) 78

Initial Calibration (Form 6) 376

Raw Data for Initial Calibration Standards 388

Continuing Calibration (Form 7) 546

Raw Data for Continuing Calibration Standards 556

Raw Data QC 783

Instrument Run Log 1034

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 25, 2016

Mr. Matt Griles
Arcadis U.S., Inc.
132 E. Washington
Suite 600
Indianapolis, IN 46204

RE: Project: Racer Kokomo
Pace Project No.: 50140212

Dear Mr. Griles:
Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report; Sample ID corrected from MW-622-S1(030916) to MW-0622-S1(030916).

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Racer Kokomo
Pace Project No.: 50140212

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Racer Kokomo
Pace Project No.: 50140212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50140212001	**TB-01(030916)**	Water	03/09/16 08:00	03/10/16 12:15
50140212002	**MW-0101-S1U(030916)**	Water	03/09/16 16:40	03/10/16 12:15
50140212003	**MW-0102-S1U(030916)**	Water	03/09/16 10:41	03/10/16 12:15
50140212004	**MW-0504-S1(030916)**	Water	03/09/16 12:35	03/10/16 12:15
50140212005	**MW-0517-S1(030916)**	Water	03/09/16 15:45	03/10/16 12:15
50140212006	**MW-0621-S1(030916)**	Water	03/09/16 14:09	03/10/16 12:15
50140212007	**FD-01(030916)**	Water	03/09/16 08:00	03/10/16 12:15
50140212008	**EB-01(030916)**	Water	03/09/16 12:50	03/10/16 12:15
50140212009	**MW-0704-S1(030916)**	Water	03/09/16 10:40	03/10/16 12:15
50140212010	**MW-0612-S1(030916)**	Water	03/09/16 13:45	03/10/16 12:15
50140212011	**MW-0606-S1(030916)**	Water	03/09/16 12:40	03/10/16 12:15
50140212012	**MW-0622-S1(030916)**	Water	03/09/16 15:50	03/10/16 12:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Racer Kokomo
Pace Project No.: 50140212

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50140212001	**TB-01(030916)**	EPA 8260	GRM	51
50140212002	**MW-0101-S1U(030916)**	EPA 8260	GRM	51
50140212003	**MW-0102-S1U(030916)**	EPA 8260	GRM	51
50140212004	**MW-0504-S1(030916)**	EPA 8260	GRM	51
50140212005	**MW-0517-S1(030916)**	EPA 8260	GRM	51
50140212006	**MW-0621-S1(030916)**	EPA 8260	GRM	51
50140212007	**FD-01(030916)**	EPA 8260	GRM	51
50140212008	**EB-01(030916)**	EPA 8260	GRM	51
50140212009	**MW-0704-S1(030916)**	EPA 8260	GRM	51
50140212010	**MW-0612-S1(030916)**	EPA 8260	GRM	51
50140212011	**MW-0606-S1(030916)**	EPA 8260	GRM	51
50140212012	**MW-0622-S1(030916)**	EPA 8260	GRM	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Racer Kokomo
Pace Project No.: 50140212

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50140212002	**MW-0101-S1U(030916)**					
EPA 8260	cis-1,2-Dichloroethene	1020	ug/L	25.0	03/18/16 02:55	
EPA 8260	trans-1,2-Dichloroethene	62.0	ug/L	25.0	03/18/16 02:55	
EPA 8260	Trichloroethene	6560	ug/L	250	03/21/16 01:18	
EPA 8260	Vinyl chloride	59.3	ug/L	10.0	03/18/16 02:55	
50140212003	**MW-0102-S1U(030916)**					
EPA 8260	cis-1,2-Dichloroethene	1010	ug/L	25.0	03/17/16 21:38	
EPA 8260	trans-1,2-Dichloroethene	114	ug/L	25.0	03/17/16 21:38	
EPA 8260	Trichloroethene	2360	ug/L	250	03/17/16 22:13	
EPA 8260	Vinyl chloride	17.0	ug/L	10.0	03/17/16 21:38	
50140212004	**MW-0504-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	571	ug/L	25.0	03/17/16 22:48	
EPA 8260	trans-1,2-Dichloroethene	92.2	ug/L	25.0	03/17/16 22:48	
EPA 8260	Trichloroethene	1820	ug/L	125	03/17/16 23:23	
EPA 8260	Vinyl chloride	8.9J	ug/L	10.0	03/17/16 22:48	
50140212005	**MW-0517-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	600	ug/L	25.0	03/18/16 03:30	
EPA 8260	trans-1,2-Dichloroethene	74.3	ug/L	25.0	03/18/16 03:30	
EPA 8260	Trichloroethene	3570	ug/L	100	03/18/16 04:05	
50140212006	**MW-0621-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	124	ug/L	25.0	03/18/16 04:41	
EPA 8260	trans-1,2-Dichloroethene	38.1	ug/L	25.0	03/18/16 04:41	
EPA 8260	Trichloroethene	3030	ug/L	250	03/18/16 06:26	
50140212007	**FD-01(030916)**					
EPA 8260	cis-1,2-Dichloroethene	601	ug/L	25.0	03/18/16 07:02	
EPA 8260	trans-1,2-Dichloroethene	72.0	ug/L	25.0	03/18/16 07:02	
EPA 8260	Trichloroethene	3720	ug/L	250	03/18/16 07:37	
50140212008	**EB-01(030916)**					
EPA 8260	Trichloroethene	16.3	ug/L	5.0	03/18/16 08:12	C0
50140212009	**MW-0704-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	660	ug/L	25.0	03/18/16 08:47	
EPA 8260	trans-1,2-Dichloroethene	89.5	ug/L	25.0	03/18/16 08:47	
EPA 8260	Trichloroethene	1370	ug/L	250	03/18/16 09:22	
50140212010	**MW-0612-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	193	ug/L	25.0	03/18/16 09:58	
EPA 8260	trans-1,2-Dichloroethene	47.2	ug/L	25.0	03/18/16 09:58	
EPA 8260	Trichloroethene	2380	ug/L	125	03/18/16 10:33	
50140212011	**MW-0606-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	329	ug/L	50.0	03/18/16 11:08	
EPA 8260	trans-1,2-Dichloroethene	62.6	ug/L	5.0	03/21/16 01:36	
EPA 8260	Trichloroethene	1960	ug/L	50.0	03/18/16 11:08	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Racer Kokomo
Pace Project No.: 50140212

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50140212012	**MW-0622-S1(030916)**					
EPA 8260	cis-1,2-Dichloroethene	946	ug/L	100	03/18/16 14:53	
EPA 8260	Trichloroethene	9610	ug/L	2500	03/18/16 15:28	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: TB-01(030916) **Lab ID: 50140212001** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/18/16 02:20	67-64-1	
Benzene	ND	ug/L	5.0	1		03/18/16 02:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/18/16 02:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/18/16 02:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/18/16 02:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/18/16 02:20	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/18/16 02:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/16 02:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/18/16 02:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/18/16 02:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/18/16 02:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/18/16 02:20	74-87-3	
Cyclohexane	ND	ug/L	100	1		03/18/16 02:20	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		03/18/16 02:20	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/18/16 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/18/16 02:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 02:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 02:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 02:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/18/16 02:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/18/16 02:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/18/16 02:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/16 02:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/16 02:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/16 02:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/18/16 02:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/18/16 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/18/16 02:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/18/16 02:20	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		03/18/16 02:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/18/16 02:20	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		03/18/16 02:20	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		03/18/16 02:20	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		03/18/16 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/18/16 02:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/18/16 02:20	1634-04-4	
Styrene	ND	ug/L	5.0	1		03/18/16 02:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/18/16 02:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/16 02:20	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/16 02:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/18/16 02:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/16 02:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/18/16 02:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/18/16 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/18/16 02:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/18/16 02:20	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		03/18/16 02:20	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: TB-01(030916) **Lab ID: 50140212001** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/18/16 02:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		03/18/16 02:20	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		03/18/16 02:20	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		03/18/16 02:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0101-S1U(030916) **Lab ID: 50140212002** Collected: 03/09/16 16:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 02:55	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 02:55	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 02:55	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 02:55	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 02:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 02:55	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 02:55	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 02:55	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 02:55	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 02:55	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 02:55	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 02:55	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 02:55	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 02:55	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 02:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 02:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 02:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 02:55	75-35-4	
cis-1,2-Dichloroethene	**1020**	ug/L	25.0	5		03/18/16 02:55	156-59-2	
trans-1,2-Dichloroethene	**62.0**	ug/L	25.0	5		03/18/16 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 02:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 02:55	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 02:55	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 02:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 02:55	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 02:55	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 02:55	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 02:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 02:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 02:55	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 02:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 02:55	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 02:55	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 02:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 02:55	79-00-5	
Trichloroethene	**6560**	ug/L	250	50		03/21/16 01:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 02:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 02:55	76-13-1	
Vinyl chloride	**59.3**	ug/L	10.0	5		03/18/16 02:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0101-S1U(030916) **Lab ID: 50140212002** Collected: 03/09/16 16:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 02:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	5		03/18/16 02:55	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	5		03/18/16 02:55	460-00-4	
Toluene-d8 (S)	98	%.	86-110	5		03/18/16 02:55	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0102-S1U(030916) **Lab ID: 50140212003** Collected: 03/09/16 10:41 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/17/16 21:38	67-64-1	
Benzene	ND	ug/L	25.0	5		03/17/16 21:38	71-43-2	1d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/17/16 21:38	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/17/16 21:38	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/17/16 21:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/17/16 21:38	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/17/16 21:38	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/17/16 21:38	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/17/16 21:38	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/17/16 21:38	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/17/16 21:38	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/17/16 21:38	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/17/16 21:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/17/16 21:38	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/17/16 21:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/17/16 21:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 21:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 21:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 21:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/17/16 21:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/17/16 21:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/17/16 21:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/17/16 21:38	75-35-4	
cis-1,2-Dichloroethene	**1010**	ug/L	25.0	5		03/17/16 21:38	156-59-2	
trans-1,2-Dichloroethene	**114**	ug/L	25.0	5		03/17/16 21:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/17/16 21:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/17/16 21:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/17/16 21:38	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/17/16 21:38	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/17/16 21:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/17/16 21:38	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/17/16 21:38	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/17/16 21:38	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/17/16 21:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/17/16 21:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/17/16 21:38	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/17/16 21:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/17/16 21:38	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/17/16 21:38	127-18-4	
Toluene	ND	ug/L	25.0	5		03/17/16 21:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/17/16 21:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/17/16 21:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/17/16 21:38	79-00-5	
Trichloroethene	**2360**	ug/L	250	50		03/17/16 22:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/17/16 21:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/17/16 21:38	76-13-1	
Vinyl chloride	**17.0**	ug/L	10.0	5		03/17/16 21:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0102-S1U(030916) **Lab ID: 50140212003** Collected: 03/09/16 10:41 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/17/16 21:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/17/16 21:38	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	5		03/17/16 21:38	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/17/16 21:38	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0504-S1(030916) **Lab ID: 50140212004** Collected: 03/09/16 12:35 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/17/16 22:48	67-64-1	
Benzene	ND	ug/L	25.0	5		03/17/16 22:48	71-43-2	1d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/17/16 22:48	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/17/16 22:48	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/17/16 22:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/17/16 22:48	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/17/16 22:48	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/17/16 22:48	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/17/16 22:48	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/17/16 22:48	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/17/16 22:48	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/17/16 22:48	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/17/16 22:48	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/17/16 22:48	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/17/16 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/17/16 22:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 22:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 22:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/17/16 22:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/17/16 22:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/17/16 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/17/16 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/17/16 22:48	75-35-4	
cis-1,2-Dichloroethene	**571**	ug/L	25.0	5		03/17/16 22:48	156-59-2	
trans-1,2-Dichloroethene	**92.2**	ug/L	25.0	5		03/17/16 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/17/16 22:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/17/16 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/17/16 22:48	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/17/16 22:48	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/17/16 22:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/17/16 22:48	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/17/16 22:48	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/17/16 22:48	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/17/16 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/17/16 22:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/17/16 22:48	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/17/16 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/17/16 22:48	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/17/16 22:48	127-18-4	
Toluene	ND	ug/L	25.0	5		03/17/16 22:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/17/16 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/17/16 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/17/16 22:48	79-00-5	
Trichloroethene	**1820**	ug/L	125	25		03/17/16 23:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/17/16 22:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/17/16 22:48	76-13-1	
Vinyl chloride	**8.9J**	ug/L	10.0	5		03/17/16 22:48	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0504-S1(030916) **Lab ID: 50140212004** Collected: 03/09/16 12:35 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/17/16 22:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	84-118	5		03/17/16 22:48	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/17/16 22:48	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/17/16 22:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0517-S1(030916) **Lab ID: 50140212005** Collected: 03/09/16 15:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 03:30	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 03:30	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 03:30	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 03:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 03:30	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 03:30	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 03:30	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 03:30	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 03:30	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 03:30	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 03:30	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 03:30	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 03:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 03:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 03:30	75-35-4	
cis-1,2-Dichloroethene	**600**	ug/L	25.0	5		03/18/16 03:30	156-59-2	
trans-1,2-Dichloroethene	**74.3**	ug/L	25.0	5		03/18/16 03:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 03:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 03:30	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 03:30	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 03:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 03:30	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 03:30	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 03:30	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 03:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 03:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 03:30	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 03:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 03:30	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 03:30	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 03:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	79-00-5	
Trichloroethene	**3570**	ug/L	100	20		03/18/16 04:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 03:30	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 03:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0517-S1(030916) **Lab ID: 50140212005** Collected: 03/09/16 15:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 03:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	5		03/18/16 03:30	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/18/16 03:30	460-00-4	
Toluene-d8 (S)	100	%.	86-110	5		03/18/16 03:30	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0621-S1(030916) **Lab ID: 50140212006** Collected: 03/09/16 14:09 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 04:41	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 04:41	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 04:41	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 04:41	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 04:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 04:41	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 04:41	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 04:41	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 04:41	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 04:41	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 04:41	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 04:41	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 04:41	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 04:41	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 04:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 04:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 04:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 04:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 04:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 04:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 04:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 04:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 04:41	75-35-4	
cis-1,2-Dichloroethene	**124**	ug/L	25.0	5		03/18/16 04:41	156-59-2	
trans-1,2-Dichloroethene	**38.1**	ug/L	25.0	5		03/18/16 04:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 04:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 04:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 04:41	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 04:41	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 04:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 04:41	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 04:41	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 04:41	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 04:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 04:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 04:41	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 04:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 04:41	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 04:41	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 04:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 04:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 04:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 04:41	79-00-5	
Trichloroethene	**3030**	ug/L	250	50		03/18/16 06:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 04:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 04:41	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 04:41	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0621-S1(030916) **Lab ID: 50140212006** Collected: 03/09/16 14:09 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 04:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 04:41	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	5		03/18/16 04:41	460-00-4	
Toluene-d8 (S)	99	%.	86-110	5		03/18/16 04:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: FD-01(030916) **Lab ID: 50140212007** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 07:02	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 07:02	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 07:02	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 07:02	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 07:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 07:02	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 07:02	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 07:02	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 07:02	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 07:02	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 07:02	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 07:02	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 07:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 07:02	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 07:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 07:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 07:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 07:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 07:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 07:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 07:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 07:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 07:02	75-35-4	
cis-1,2-Dichloroethene	**601**	ug/L	25.0	5		03/18/16 07:02	156-59-2	
trans-1,2-Dichloroethene	**72.0**	ug/L	25.0	5		03/18/16 07:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 07:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 07:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 07:02	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 07:02	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 07:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 07:02	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 07:02	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 07:02	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 07:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 07:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 07:02	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 07:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 07:02	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 07:02	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 07:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 07:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 07:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 07:02	79-00-5	
Trichloroethene	**3720**	ug/L	250	50		03/18/16 07:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 07:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 07:02	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 07:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: FD-01(030916) **Lab ID: 50140212007** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 07:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 07:02	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/18/16 07:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	5		03/18/16 07:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: EB-01(030916) **Lab ID: 50140212008** Collected: 03/09/16 12:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/18/16 08:12	67-64-1	
Benzene	ND	ug/L	5.0	1		03/18/16 08:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/18/16 08:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/18/16 08:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/18/16 08:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/18/16 08:12	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/18/16 08:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/18/16 08:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/18/16 08:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/18/16 08:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/18/16 08:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/18/16 08:12	74-87-3	
Cyclohexane	ND	ug/L	100	1		03/18/16 08:12	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		03/18/16 08:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/18/16 08:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/18/16 08:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 08:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 08:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/18/16 08:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/18/16 08:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/18/16 08:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/18/16 08:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/18/16 08:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/16 08:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/18/16 08:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/18/16 08:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/18/16 08:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/18/16 08:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/18/16 08:12	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		03/18/16 08:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/18/16 08:12	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		03/18/16 08:12	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		03/18/16 08:12	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		03/18/16 08:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/18/16 08:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/18/16 08:12	1634-04-4	
Styrene	ND	ug/L	5.0	1		03/18/16 08:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/18/16 08:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/18/16 08:12	127-18-4	
Toluene	ND	ug/L	5.0	1		03/18/16 08:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/18/16 08:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/18/16 08:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/18/16 08:12	79-00-5	
Trichloroethene	**16.3**	ug/L	5.0	1		03/18/16 08:12	79-01-6	C0
Trichlorofluoromethane	ND	ug/L	5.0	1		03/18/16 08:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/18/16 08:12	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		03/18/16 08:12	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: EB-01(030916) **Lab ID: 50140212008** Collected: 03/09/16 12:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/18/16 08:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	84-118	1		03/18/16 08:12	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		03/18/16 08:12	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		03/18/16 08:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0704-S1(030916) **Lab ID: 50140212009** Collected: 03/09/16 10:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 08:47	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 08:47	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 08:47	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 08:47	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 08:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 08:47	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 08:47	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 08:47	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 08:47	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 08:47	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 08:47	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 08:47	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 08:47	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 08:47	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 08:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 08:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 08:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 08:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 08:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 08:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 08:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 08:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 08:47	75-35-4	
cis-1,2-Dichloroethene	**660**	ug/L	25.0	5		03/18/16 08:47	156-59-2	
trans-1,2-Dichloroethene	**89.5**	ug/L	25.0	5		03/18/16 08:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 08:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 08:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 08:47	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 08:47	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 08:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 08:47	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 08:47	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 08:47	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 08:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 08:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 08:47	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 08:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 08:47	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 08:47	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 08:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 08:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 08:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 08:47	79-00-5	
Trichloroethene	**1370**	ug/L	250	50		03/18/16 09:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 08:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 08:47	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 08:47	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0704-S1(030916) **Lab ID: 50140212009** Collected: 03/09/16 10:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 08:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 08:47	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	5		03/18/16 08:47	460-00-4	
Toluene-d8 (S)	99	%.	86-110	5		03/18/16 08:47	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0612-S1(030916) **Lab ID: 50140212010** Collected: 03/09/16 13:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 09:58	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 09:58	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 09:58	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 09:58	75-25-2	
Bromomethane	ND	ug/L	25.0	5		03/18/16 09:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 09:58	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 09:58	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 09:58	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 09:58	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 09:58	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 09:58	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 09:58	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 09:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	5		03/18/16 09:58	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 09:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 09:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 09:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 09:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 09:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 09:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 09:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 09:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 09:58	75-35-4	
cis-1,2-Dichloroethene	**193**	ug/L	25.0	5		03/18/16 09:58	156-59-2	
trans-1,2-Dichloroethene	**47.2**	ug/L	25.0	5		03/18/16 09:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 09:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 09:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 09:58	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 09:58	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 09:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 09:58	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 09:58	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 09:58	108-87-2	N2
Methylene Chloride	ND	ug/L	25.0	5		03/18/16 09:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 09:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 09:58	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 09:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 09:58	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 09:58	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 09:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 09:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 09:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 09:58	79-00-5	
Trichloroethene	**2380**	ug/L	125	25		03/18/16 10:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 09:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 09:58	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 09:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0612-S1(030916) **Lab ID: 50140212010** Collected: 03/09/16 13:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 09:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	5		03/18/16 09:58	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	5		03/18/16 09:58	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/18/16 09:58	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0606-S1(030916) **Lab ID: 50140212011** Collected: 03/09/16 12:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		03/21/16 01:36	67-64-1	
Benzene	ND	ug/L	5.0	1		03/21/16 01:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/21/16 01:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/21/16 01:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/21/16 01:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		03/21/16 01:36	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/21/16 01:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/21/16 01:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/21/16 01:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/21/16 01:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/21/16 01:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/21/16 01:36	74-87-3	
Cyclohexane	ND	ug/L	100	1		03/21/16 01:36	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		03/21/16 01:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/21/16 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/21/16 01:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/21/16 01:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/21/16 01:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/21/16 01:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		03/21/16 01:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/21/16 01:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/21/16 01:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/21/16 01:36	75-35-4	
cis-1,2-Dichloroethene	**329**	ug/L	50.0	10		03/18/16 11:08	156-59-2	
trans-1,2-Dichloroethene	**62.6**	ug/L	5.0	1		03/21/16 01:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/21/16 01:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/21/16 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/21/16 01:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/21/16 01:36	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		03/21/16 01:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		03/21/16 01:36	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		03/21/16 01:36	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		03/21/16 01:36	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		03/21/16 01:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		03/21/16 01:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		03/21/16 01:36	1634-04-4	
Styrene	ND	ug/L	5.0	1		03/21/16 01:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/21/16 01:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/21/16 01:36	127-18-4	
Toluene	ND	ug/L	5.0	1		03/21/16 01:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		03/21/16 01:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/21/16 01:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/21/16 01:36	79-00-5	
Trichloroethene	**1960**	ug/L	50.0	10		03/18/16 11:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/21/16 01:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		03/21/16 01:36	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		03/21/16 01:36	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0606-S1(030916) **Lab ID: 50140212011** Collected: 03/09/16 12:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/21/16 01:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		03/21/16 01:36	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		03/21/16 01:36	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		03/21/16 01:36	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0622-S1(030916) **Lab ID: 50140212012** Collected: 03/09/16 15:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2000	20		03/18/16 14:53	67-64-1	
Benzene	ND	ug/L	100	20		03/18/16 14:53	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	100	20		03/18/16 14:53	75-27-4	
Bromoform	ND	ug/L	100	20		03/18/16 14:53	75-25-2	
Bromomethane	ND	ug/L	100	20		03/18/16 14:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	20		03/18/16 14:53	78-93-3	
Carbon disulfide	ND	ug/L	200	20		03/18/16 14:53	75-15-0	
Carbon tetrachloride	ND	ug/L	100	20		03/18/16 14:53	56-23-5	
Chlorobenzene	ND	ug/L	100	20		03/18/16 14:53	108-90-7	
Chloroethane	ND	ug/L	100	20		03/18/16 14:53	75-00-3	
Chloroform	ND	ug/L	100	20		03/18/16 14:53	67-66-3	
Chloromethane	ND	ug/L	100	20		03/18/16 14:53	74-87-3	
Cyclohexane	ND	ug/L	2000	20		03/18/16 14:53	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	200	20		03/18/16 14:53	96-12-8	
Dibromochloromethane	ND	ug/L	100	20		03/18/16 14:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	20		03/18/16 14:53	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	100	20		03/18/16 14:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	20		03/18/16 14:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	20		03/18/16 14:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	20		03/18/16 14:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	20		03/18/16 14:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	20		03/18/16 14:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		03/18/16 14:53	75-35-4	
cis-1,2-Dichloroethene	**946**	ug/L	100	20		03/18/16 14:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	20		03/18/16 14:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	20		03/18/16 14:53	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	100	20		03/18/16 14:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	20		03/18/16 14:53	10061-02-6	
Ethylbenzene	ND	ug/L	100	20		03/18/16 14:53	100-41-4	
2-Hexanone	ND	ug/L	500	20		03/18/16 14:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	100	20		03/18/16 14:53	98-82-8	
Methyl acetate	ND	ug/L	1000	20		03/18/16 14:53	79-20-9	N2
Methylcyclohexane	ND	ug/L	1000	20		03/18/16 14:53	108-87-2	N2
Methylene Chloride	ND	ug/L	100	20		03/18/16 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	20		03/18/16 14:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	80.0	20		03/18/16 14:53	1634-04-4	3d
Styrene	ND	ug/L	100	20		03/18/16 14:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	20		03/18/16 14:53	79-34-5	
Tetrachloroethene	ND	ug/L	100	20		03/18/16 14:53	127-18-4	
Toluene	ND	ug/L	100	20		03/18/16 14:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	100	20		03/18/16 14:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	20		03/18/16 14:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	20		03/18/16 14:53	79-00-5	
Trichloroethene	**9610**	ug/L	2500	500		03/18/16 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	20		03/18/16 14:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	100	20		03/18/16 14:53	76-13-1	
Vinyl chloride	ND	ug/L	40.0	20		03/18/16 14:53	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0622-S1(030916) **Lab ID: 50140212012** Collected: 03/09/16 15:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	200	20		03/18/16 14:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	20		03/18/16 14:53	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	20		03/18/16 14:53	460-00-4	
Toluene-d8 (S)	99	%.	86-110	20		03/18/16 14:53	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

QC Batch: MSV/88039 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50140212003, 50140212004

METHOD BLANK: 1500382 Matrix: Water
Associated Lab Samples: 50140212003, 50140212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/17/16 13:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/17/16 13:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/17/16 13:26	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	03/17/16 13:26	
1,1-Dichloroethane	ug/L	ND	5.0	03/17/16 13:26	
1,1-Dichloroethene	ug/L	ND	5.0	03/17/16 13:26	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/17/16 13:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	03/17/16 13:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/17/16 13:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/17/16 13:26	
1,2-Dichloroethane	ug/L	ND	5.0	03/17/16 13:26	
1,2-Dichloropropane	ug/L	ND	5.0	03/17/16 13:26	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/17/16 13:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/17/16 13:26	
2-Butanone (MEK)	ug/L	ND	25.0	03/17/16 13:26	
2-Hexanone	ug/L	ND	25.0	03/17/16 13:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/17/16 13:26	
Acetone	ug/L	ND	100	03/17/16 13:26	
Benzene	ug/L	ND	5.0	03/17/16 13:26	
Bromodichloromethane	ug/L	ND	5.0	03/17/16 13:26	
Bromoform	ug/L	ND	5.0	03/17/16 13:26	
Bromomethane	ug/L	ND	5.0	03/17/16 13:26	
Carbon disulfide	ug/L	ND	10.0	03/17/16 13:26	
Carbon tetrachloride	ug/L	ND	5.0	03/17/16 13:26	
Chlorobenzene	ug/L	ND	5.0	03/17/16 13:26	
Chloroethane	ug/L	ND	5.0	03/17/16 13:26	
Chloroform	ug/L	ND	5.0	03/17/16 13:26	
Chloromethane	ug/L	ND	5.0	03/17/16 13:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/17/16 13:26	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/17/16 13:26	
Cyclohexane	ug/L	ND	100	03/17/16 13:26	N2
Dibromochloromethane	ug/L	ND	5.0	03/17/16 13:26	
Dichlorodifluoromethane	ug/L	ND	5.0	03/17/16 13:26	
Ethylbenzene	ug/L	ND	5.0	03/17/16 13:26	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/17/16 13:26	
Methyl acetate	ug/L	ND	50.0	03/17/16 13:26	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	03/17/16 13:26	
Methylcyclohexane	ug/L	ND	50.0	03/17/16 13:26	N2
Methylene Chloride	ug/L	ND	5.0	03/17/16 13:26	
Styrene	ug/L	ND	5.0	03/17/16 13:26	
Tetrachloroethene	ug/L	ND	5.0	03/17/16 13:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

METHOD BLANK: 1500382 Matrix: Water
Associated Lab Samples: 50140212003, 50140212004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	03/17/16 13:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/17/16 13:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/17/16 13:26	
Trichloroethene	ug/L	ND	5.0	03/17/16 13:26	
Trichlorofluoromethane	ug/L	ND	5.0	03/17/16 13:26	
Vinyl chloride	ug/L	ND	2.0	03/17/16 13:26	
Xylene (Total)	ug/L	ND	10.0	03/17/16 13:26	
4-Bromofluorobenzene (S)	%.	105	79-116	03/17/16 13:26	
Dibromofluoromethane (S)	%.	107	84-118	03/17/16 13:26	
Toluene-d8 (S)	%.	100	86-110	03/17/16 13:26	

LABORATORY CONTROL SAMPLE: 1500383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	72-124	
1,1-Dichloroethene	ug/L	50	55.6	111	69-127	
1,2-Dichloropropane	ug/L	50	50.6	101	77-124	
Benzene	ug/L	50	53.4	107	76-122	
Chlorobenzene	ug/L	50	52.8	106	76-118	
Chloroform	ug/L	50	52.1	104	70-119	
cis-1,2-Dichloroethene	ug/L	50	53.7	107	74-120	
Ethylbenzene	ug/L	50	54.1	108	75-123	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	84-134	
Methyl-tert-butyl ether	ug/L	50	50.5	101	65-131	
Tetrachloroethene	ug/L	50	57.0	114	69-119	
Toluene	ug/L	50	52.7	105	74-122	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	72-122	
Trichloroethene	ug/L	50	56.3	113	75-123	
Vinyl chloride	ug/L	50	50.3	101	61-147	
Xylene (Total)	ug/L	150	163	109	75-127	
4-Bromofluorobenzene (S)	%.			107	79-116	
Dibromofluoromethane (S)	%.			96	84-118	
Toluene-d8 (S)	%.			103	86-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

QC Batch: MSV/88040 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50140212001, 50140212002, 50140212005, 50140212006, 50140212007, 50140212008, 50140212009, 50140212010

METHOD BLANK: 1500384 Matrix: Water
Associated Lab Samples: 50140212001, 50140212002, 50140212005, 50140212006, 50140212007, 50140212008, 50140212009, 50140212010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/18/16 01:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/18/16 01:44	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/18/16 01:44	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	03/18/16 01:44	
1,1-Dichloroethane	ug/L	ND	5.0	03/18/16 01:44	
1,1-Dichloroethene	ug/L	ND	5.0	03/18/16 01:44	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/18/16 01:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	03/18/16 01:44	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/18/16 01:44	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/18/16 01:44	
1,2-Dichloroethane	ug/L	ND	5.0	03/18/16 01:44	
1,2-Dichloropropane	ug/L	ND	5.0	03/18/16 01:44	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/18/16 01:44	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/18/16 01:44	
2-Butanone (MEK)	ug/L	ND	25.0	03/18/16 01:44	
2-Hexanone	ug/L	ND	25.0	03/18/16 01:44	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/18/16 01:44	
Acetone	ug/L	ND	100	03/18/16 01:44	
Benzene	ug/L	ND	5.0	03/18/16 01:44	
Bromodichloromethane	ug/L	ND	5.0	03/18/16 01:44	
Bromoform	ug/L	ND	5.0	03/18/16 01:44	
Bromomethane	ug/L	ND	5.0	03/18/16 01:44	
Carbon disulfide	ug/L	ND	10.0	03/18/16 01:44	
Carbon tetrachloride	ug/L	ND	5.0	03/18/16 01:44	
Chlorobenzene	ug/L	ND	5.0	03/18/16 01:44	
Chloroethane	ug/L	ND	5.0	03/18/16 01:44	
Chloroform	ug/L	ND	5.0	03/18/16 01:44	
Chloromethane	ug/L	ND	5.0	03/18/16 01:44	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/18/16 01:44	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/18/16 01:44	
Cyclohexane	ug/L	ND	100	03/18/16 01:44	N2
Dibromochloromethane	ug/L	ND	5.0	03/18/16 01:44	
Dichlorodifluoromethane	ug/L	ND	5.0	03/18/16 01:44	
Ethylbenzene	ug/L	ND	5.0	03/18/16 01:44	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/18/16 01:44	
Methyl acetate	ug/L	ND	50.0	03/18/16 01:44	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	03/18/16 01:44	
Methylcyclohexane	ug/L	ND	50.0	03/18/16 01:44	N2
Methylene Chloride	ug/L	ND	5.0	03/18/16 01:44	
Styrene	ug/L	ND	5.0	03/18/16 01:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

METHOD BLANK: 1500384 Matrix: Water

Associated Lab Samples: 50140212001, 50140212002, 50140212005, 50140212006, 50140212007, 50140212008, 50140212009, 50140212010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	03/18/16 01:44	
Toluene	ug/L	ND	5.0	03/18/16 01:44	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/18/16 01:44	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/18/16 01:44	
Trichloroethene	ug/L	ND	5.0	03/18/16 01:44	
Trichlorofluoromethane	ug/L	ND	5.0	03/18/16 01:44	
Vinyl chloride	ug/L	ND	2.0	03/18/16 01:44	
Xylene (Total)	ug/L	ND	10.0	03/18/16 01:44	
4-Bromofluorobenzene (S)	%.	107	79-116	03/18/16 01:44	
Dibromofluoromethane (S)	%.	107	84-118	03/18/16 01:44	
Toluene-d8 (S)	%.	99	86-110	03/18/16 01:44	

LABORATORY CONTROL SAMPLE: 1500385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.6	107	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	72-124	
1,1-Dichloroethene	ug/L	50	53.9	108	69-127	
1,2-Dichloropropane	ug/L	50	51.4	103	77-124	
Benzene	ug/L	50	54.0	108	76-122	
Chlorobenzene	ug/L	50	51.5	103	76-118	
Chloroform	ug/L	50	52.4	105	70-119	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	74-120	
Ethylbenzene	ug/L	50	52.4	105	75-123	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	84-134	
Methyl-tert-butyl ether	ug/L	50	51.8	104	65-131	
Tetrachloroethene	ug/L	50	55.7	111	69-119	
Toluene	ug/L	50	52.3	105	74-122	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	72-122	
Trichloroethene	ug/L	50	56.2	112	75-123	
Vinyl chloride	ug/L	50	52.5	105	61-147	
Xylene (Total)	ug/L	150	159	106	75-127	
4-Bromofluorobenzene (S)	%.			107	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			102	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500386 1500387

Parameter	Units	50140212006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	250	250	257	265	103	106	51-140	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	270	276	108	110	49-138	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1500386 1500387

Parameter	Units	50140212006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	250	250	270	280	108	112	51-144	4	20	
1,2-Dichloropropane	ug/L	ND	250	250	255	264	102	106	56-138	4	20	
Benzene	ug/L	ND	250	250	262	274	105	110	51-140	5	20	
Chlorobenzene	ug/L	ND	250	250	246	259	99	104	45-138	5	20	
Chloroform	ug/L	ND	250	250	256	268	102	107	50-135	5	20	
cis-1,2-Dichloroethene	ug/L	124	250	250	382	392	103	107	43-144	2	20	
Ethylbenzene	ug/L	ND	250	250	251	259	101	104	36-146	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	250	250	254	263	102	105	43-159	4	20	
Methyl-tert-butyl ether	ug/L	ND	250	250	260	272	104	109	43-146	4	20	
Tetrachloroethene	ug/L	ND	250	250	263	276	105	110	38-139	5	20	
Toluene	ug/L	ND	250	250	252	259	100	103	44-140	3	20	
trans-1,2-Dichloroethene	ug/L	38.1	250	250	295	299	103	105	50-139	2	20	
Trichloroethene	ug/L	3030	250	250	2890	2990	-59	-18	44-146	4	20	M0
Vinyl chloride	ug/L	ND	250	250	258	266	103	106	43-166	3	20	
Xylene (Total)	ug/L	ND	750	750	758	787	101	105	35-146	4	20	
4-Bromofluorobenzene (S)	%.						105	106	79-116			
Dibromofluoromethane (S)	%.						96	99	84-118			
Toluene-d8 (S)	%.						101	101	86-110			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

QC Batch: MSV/88079
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50140212012

METHOD BLANK: 1501284
Matrix: Water
Associated Lab Samples: 50140212012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/18/16 14:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/18/16 14:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/18/16 14:18	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	03/18/16 14:18	
1,1-Dichloroethane	ug/L	ND	5.0	03/18/16 14:18	
1,1-Dichloroethene	ug/L	ND	5.0	03/18/16 14:18	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/18/16 14:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	03/18/16 14:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/18/16 14:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/18/16 14:18	
1,2-Dichloroethane	ug/L	ND	5.0	03/18/16 14:18	
1,2-Dichloropropane	ug/L	ND	5.0	03/18/16 14:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/18/16 14:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/18/16 14:18	
2-Butanone (MEK)	ug/L	ND	25.0	03/18/16 14:18	
2-Hexanone	ug/L	ND	25.0	03/18/16 14:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/18/16 14:18	
Acetone	ug/L	ND	100	03/18/16 14:18	
Benzene	ug/L	ND	5.0	03/18/16 14:18	
Bromodichloromethane	ug/L	ND	5.0	03/18/16 14:18	
Bromoform	ug/L	ND	5.0	03/18/16 14:18	
Bromomethane	ug/L	ND	5.0	03/18/16 14:18	
Carbon disulfide	ug/L	ND	10.0	03/18/16 14:18	
Carbon tetrachloride	ug/L	ND	5.0	03/18/16 14:18	
Chlorobenzene	ug/L	ND	5.0	03/18/16 14:18	
Chloroethane	ug/L	ND	5.0	03/18/16 14:18	
Chloroform	ug/L	ND	5.0	03/18/16 14:18	
Chloromethane	ug/L	ND	5.0	03/18/16 14:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/18/16 14:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/18/16 14:18	
Cyclohexane	ug/L	ND	100	03/18/16 14:18	N2
Dibromochloromethane	ug/L	ND	5.0	03/18/16 14:18	
Dichlorodifluoromethane	ug/L	ND	5.0	03/18/16 14:18	
Ethylbenzene	ug/L	ND	5.0	03/18/16 14:18	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/18/16 14:18	
Methyl acetate	ug/L	ND	50.0	03/18/16 14:18	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	03/18/16 14:18	
Methylcyclohexane	ug/L	ND	50.0	03/18/16 14:18	N2
Methylene Chloride	ug/L	ND	5.0	03/18/16 14:18	
Styrene	ug/L	ND	5.0	03/18/16 14:18	
Tetrachloroethene	ug/L	ND	5.0	03/18/16 14:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

METHOD BLANK: 1501284 Matrix: Water
Associated Lab Samples: 50140212012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	03/18/16 14:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/18/16 14:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/18/16 14:18	
Trichloroethene	ug/L	ND	5.0	03/18/16 14:18	
Trichlorofluoromethane	ug/L	ND	5.0	03/18/16 14:18	
Vinyl chloride	ug/L	ND	2.0	03/18/16 14:18	
Xylene (Total)	ug/L	ND	10.0	03/18/16 14:18	
4-Bromofluorobenzene (S)	%.	106	79-116	03/18/16 14:18	
Dibromofluoromethane (S)	%.	104	84-118	03/18/16 14:18	
Toluene-d8 (S)	%.	99	86-110	03/18/16 14:18	

LABORATORY CONTROL SAMPLE: 1501285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	72-124	
1,1-Dichloroethene	ug/L	50	53.5	107	69-127	
1,2-Dichloropropane	ug/L	50	50.0	100	77-124	
Benzene	ug/L	50	52.2	104	76-122	
Chlorobenzene	ug/L	50	50.9	102	76-118	
Chloroform	ug/L	50	51.2	102	70-119	
cis-1,2-Dichloroethene	ug/L	50	53.1	106	74-120	
Ethylbenzene	ug/L	50	51.9	104	75-123	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	84-134	
Methyl-tert-butyl ether	ug/L	50	49.1	98	65-131	
Tetrachloroethene	ug/L	50	55.3	111	69-119	
Toluene	ug/L	50	52.1	104	74-122	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	72-122	
Trichloroethene	ug/L	50	54.0	108	75-123	
Vinyl chloride	ug/L	50	52.1	104	61-147	
Xylene (Total)	ug/L	150	157	105	75-127	
4-Bromofluorobenzene (S)	%.			108	79-116	
Dibromofluoromethane (S)	%.			96	84-118	
Toluene-d8 (S)	%.			104	86-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

QC Batch: MSV/88107
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50140212011

METHOD BLANK: 1501723
Matrix: Water
Associated Lab Samples: 50140212011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/20/16 15:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/20/16 15:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/20/16 15:38	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	03/20/16 15:38	
1,1-Dichloroethane	ug/L	ND	5.0	03/20/16 15:38	
1,1-Dichloroethene	ug/L	ND	5.0	03/20/16 15:38	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/20/16 15:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	03/20/16 15:38	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/20/16 15:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/20/16 15:38	
1,2-Dichloroethane	ug/L	ND	5.0	03/20/16 15:38	
1,2-Dichloropropane	ug/L	ND	5.0	03/20/16 15:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/20/16 15:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/20/16 15:38	
2-Butanone (MEK)	ug/L	ND	25.0	03/20/16 15:38	
2-Hexanone	ug/L	ND	25.0	03/20/16 15:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	03/20/16 15:38	
Acetone	ug/L	ND	100	03/20/16 15:38	
Benzene	ug/L	ND	5.0	03/20/16 15:38	
Bromodichloromethane	ug/L	ND	5.0	03/20/16 15:38	
Bromoform	ug/L	ND	5.0	03/20/16 15:38	
Bromomethane	ug/L	ND	5.0	03/20/16 15:38	
Carbon disulfide	ug/L	ND	10.0	03/20/16 15:38	
Carbon tetrachloride	ug/L	ND	5.0	03/20/16 15:38	
Chlorobenzene	ug/L	ND	5.0	03/20/16 15:38	
Chloroethane	ug/L	ND	5.0	03/20/16 15:38	
Chloroform	ug/L	ND	5.0	03/20/16 15:38	
Chloromethane	ug/L	ND	5.0	03/20/16 15:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/20/16 15:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/20/16 15:38	
Cyclohexane	ug/L	ND	100	03/20/16 15:38	N2
Dibromochloromethane	ug/L	ND	5.0	03/20/16 15:38	
Dichlorodifluoromethane	ug/L	ND	5.0	03/20/16 15:38	
Ethylbenzene	ug/L	ND	5.0	03/20/16 15:38	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	03/20/16 15:38	
Methyl acetate	ug/L	ND	50.0	03/20/16 15:38	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	03/20/16 15:38	
Methylcyclohexane	ug/L	ND	50.0	03/20/16 15:38	N2
Methylene Chloride	ug/L	ND	5.0	03/20/16 15:38	
Styrene	ug/L	ND	5.0	03/20/16 15:38	
Tetrachloroethene	ug/L	ND	5.0	03/20/16 15:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

METHOD BLANK: 1501723 Matrix: Water
Associated Lab Samples: 50140212011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	03/20/16 15:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/20/16 15:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/20/16 15:38	
Trichloroethene	ug/L	ND	5.0	03/20/16 15:38	
Trichlorofluoromethane	ug/L	ND	5.0	03/20/16 15:38	
Vinyl chloride	ug/L	ND	2.0	03/20/16 15:38	
Xylene (Total)	ug/L	ND	10.0	03/20/16 15:38	
4-Bromofluorobenzene (S)	%.	103	79-116	03/20/16 15:38	
Dibromofluoromethane (S)	%.	105	84-118	03/20/16 15:38	
Toluene-d8 (S)	%.	99	86-110	03/20/16 15:38	

LABORATORY CONTROL SAMPLE: 1501724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.5	107	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	55.6	111	72-124	
1,1-Dichloroethene	ug/L	50	55.4	111	69-127	
1,2-Dichloropropane	ug/L	50	52.0	104	77-124	
Benzene	ug/L	50	53.1	106	76-122	
Chlorobenzene	ug/L	50	51.3	103	76-118	
Chloroform	ug/L	50	51.9	104	70-119	
cis-1,2-Dichloroethene	ug/L	50	53.1	106	74-120	
Ethylbenzene	ug/L	50	53.0	106	75-123	
Isopropylbenzene (Cumene)	ug/L	50	54.0	108	84-134	
Methyl-tert-butyl ether	ug/L	50	50.5	101	65-131	
Tetrachloroethene	ug/L	50	56.8	114	69-119	
Toluene	ug/L	50	52.2	104	74-122	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	72-122	
Trichloroethene	ug/L	50	56.1	112	75-123	
Vinyl chloride	ug/L	50	53.3	107	61-147	
Xylene (Total)	ug/L	150	161	107	75-127	
4-Bromofluorobenzene (S)	%.			104	79-116	
Dibromofluoromethane (S)	%.			97	84-118	
Toluene-d8 (S)	%.			102	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501728 1501729

Parameter	Units	50140379038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	60.1	56.3	117	110	51-140	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.4	56.2	111	112	49-138	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	59.4	56.3	118	112	51-144	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Kokomo
Pace Project No.: 50140212

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1501728 1501729

Parameter	Units	50140379038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	ND	50	50	58.0	54.7	116	109	56-138	6	20	
Benzene	ug/L	ND	50	50	58.3	56.1	115	111	51-140	4	20	
Chlorobenzene	ug/L	ND	50	50	55.3	53.6	109	106	45-138	3	20	
Chloroform	ug/L	ND	50	50	56.6	54.1	113	108	50-135	5	20	
cis-1,2-Dichloroethene	ug/L	10.1	50	50	68.9	66.2	118	112	43-144	4	20	
Ethylbenzene	ug/L	5.6	50	50	62.1	60.0	113	109	36-146	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	57.3	54.7	113	108	43-159	5	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	57.3	55.2	114	109	43-146	4	20	
Tetrachloroethene	ug/L	ND	50	50	59.7	57.4	119	115	38-139	4	20	
Toluene	ug/L	6.5	50	50	61.6	59.3	110	105	44-140	4	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	61.1	57.9	115	109	50-139	5	20	
Trichloroethene	ug/L	ND	50	50	62.0	58.7	123	117	44-146	5	20	
Vinyl chloride	ug/L	7.4	50	50	61.2	57.9	108	101	43-166	6	20	
Xylene (Total)	ug/L	14.1	150	150	182	173	112	106	35-146	5	20	
4-Bromofluorobenzene (S)	%.						107	107	79-116			
Dibromofluoromethane (S)	%.						101	98	84-118			
Toluene-d8 (S)	%.						103	101	86-110			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Racer Kokomo
Pace Project No.: 50140212

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-18-16
2d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-20-16
3d	MtBE ND at an estimated RL of 40 ug/L based on the MDL. grm 3-20-16
C0	Result confirmed by second analysis.
D4	Sample was diluted due to the presence of high levels of target analytes.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Racer Kokomo
Pace Project No.: 50140212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50140212001	**TB-01(030916)**	EPA 8260	MSV/88040		
50140212002	**MW-0101-S1U(030916)**	EPA 8260	MSV/88040		
50140212003	**MW-0102-S1U(030916)**	EPA 8260	MSV/88039		
50140212004	**MW-0504-S1(030916)**	EPA 8260	MSV/88039		
50140212005	**MW-0517-S1(030916)**	EPA 8260	MSV/88040		
50140212006	**MW-0621-S1(030916)**	EPA 8260	MSV/88040		
50140212007	**FD-01(030916)**	EPA 8260	MSV/88040		
50140212008	**EB-01(030916)**	EPA 8260	MSV/88040		
50140212009	**MW-0704-S1(030916)**	EPA 8260	MSV/88040		
50140212010	**MW-0612-S1(030916)**	EPA 8260	MSV/88040		
50140212011	**MW-0606-S1(030916)**	EPA 8260	MSV/88107		
50140212012	**MW-0622-S1(030916)**	EPA 8260	MSV/88079		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1927531

Section A Required Client Information:

Company: ARCADIS
Address: 132 E Washington St Indianapolis, IN 46204
Email To: Sarah.Jonker
Phone: 317.231.6500 Fax:
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Monica Heintz, Matt Griles
Purchase Order No.: IN000884.2016
Project Name: Race Trust - Kokomo
Project Number: IN000884.2016

Section C Invoice Information:

Attention: Accts. Payable
Company Name:
Address: Highlands Ranch, CO.
Pace Quote Reference:
Pace Project Manager: Donna Snyder
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes — MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01 (030916)	WT	G	—	—	3-9-16	0800		3				X						X		50140212 KJ
2	MW-0101-SLU (030916)			—	—		1640		3				X						X		001
3	MW-0102-SLU (030916)			—	—		1041		3				X						X		002
4	MW-0504-SL (030916)			—	—		1235		3				X						X		003
5	MW-0517-SL (030916)			—	—		1545		3				X						X		004
6	MW-0621-SL (030916)			—	—		1409		9				X						X		005
7	FD-01 (030916)			—	—		—		3				X						X		MS/MSD 006
8	EB-01 (030916)			—	—		1250		3				X						X		007
9																					008
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / ARCADIS	3/10/16	0800	Sarah Jonker / ARCADIS	3/10/16	0800				
	Sarah Jonker / ARCADIS	3/10/16	1215	[signature]	3/10/16	1215	1-5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/9/16

Temp In °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1927532

Section A Required Client Information:

Company: ARCADIS
Address: 132 E. WASHINGTON
Email To: saran.jonker@arcadis.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: SARAH JONKER
Copy To: MATT GRILES
MONICA HEINTZ
Purchase Order No.:
Project Name: RACER TRUST
Project Number: IN000884.2016

Section C Invoice Information:

Attention: ACCOUNTS PAY
Company Name:
Address: HIGHLANDS RANCH, CO
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260D VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TRIP BLANK	WT	G			3.9.16	0900		3	X								X		30140212 KJ
2	MW-0704-S1(030916)	WT	G				1040		3				X					X		009
3	MW-0612-S1(030916)	WT	G				1345		3				X					X		010
4	MW-0606-S1(030916)	WT	G				1240		3				X					X		011
5	MW-622-S1(030916)	WT	G				1550		3				X					X		012
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / ARCADIS	3/9/16	1700	[signature] ARCADIS	3/9/16	1700				
	[signature] / ARCADIS	3/10/16	0800	Sarah Jonker ARCADIS	3/10/16	0800				
	Sarah Jonker / ARCADIS	3/10/16	1215	[signature]	3/10/16	1215	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LAUREN FRE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 03/09/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: ARCADIS Project # 50140212

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other FOAMS

Thermometer 1 (2) 3 4 5 6 A B C D E F Type of Ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.5/1.5 Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 3/10/16 JRF

Are samples from West Virginia? Document any containers out of temp.	☐Yes	☒No	1.
Chain of Custody Present:	☒Yes	☐No ☐N/A	2.
Chain of Custody Filled Out:	☒Yes	☐No ☐N/A	3.
Chain of Custody Relinquished:	☒Yes	☐No ☐N/A	4.
Sampler Name & Signature on COC:	☒Yes	☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No ☐N/A	7.
Containers Intact:	☒Yes	☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes	☒No ☐N/A	9. NO DATE/TIME ON SAMPLE LABELS
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes	☐No ☒N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)			12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☒No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes	☐No	14
Trip Blank Present:	☒Yes	☐No ☐N/A	15 one set of trip blanks rec'd
Trip Blank Custody Seals Present	☒Yes	☐No ☐N/A	w/ both projects JRS 3/10/16
Project Manager Review			
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	15.
Sufficient Volume:	☑Yes	☐No ☐N/A	16.
Correct Containers Used:	☑Yes	☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 3/10/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Condition Upon Receipt

Pace Analytical

Client Name: ARCADIS

Project # 50140212

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other FOAM

Thermometer 1 (2) 3 4 5 6 A B C D E F Type of ice: (Wet) Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.5/1.5 Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: 3/10/16 JKF

Are samples from West Virginia? Document any containers out of temp.	☐Yes ☒No	1.
Chain of Custody Present:	☒Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Containers Intact:	☒Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☒No ☐N/A	9. NO 'TRIP BLANK' PROVIDED. SAMPLER BROUGHT 2 PROJECTS IN 1 COOLER W/ ONLY 1 TRIP BLANK
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☐Yes ☐No ☒N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15 one set of trip blanks
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	rec'd for both projects DBS 3/10/16
Project Manager Review		
Samples Arrived within Hold Time:	☐Yes ☐No ☐N/A	15.
Sufficient Volume:	☐Yes ☐No ☐N/A	16.
Correct Containers Used:	☐Yes ☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 9 CONT'D: NO DATE TIME ON SAMPLE LABELS.

Project Manager Review: _____ Date: 3/10/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: ARCADIS

COC PAGE 1 of 2 DB 3/10/16

COC ID# 1927531

Project # 50140212

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1	3																				
2	↓																				
3																					
4																					
5	↓																				
6	9																				
7	3																				
8	↓																				
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: ARCADIS

COC PAGE 2 of 2 DB 3/10/16

COC ID# 1927532

Project # 50140212

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1																					
2	3																				
3	↓																				
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1500382	1500382BLANK	105	107	100
1500383	1500383LCS	107	96	103
50140212003	MW-0102-S1U(030916)	105	106	97
50140212004	MW-0504-S1(030916)	106	110	97

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-2
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1500384	1500384BLANK	107	107	99
1500385	1500385LCS	107	98	102
1500386	1500386MS	105	96	101
1500387	1500387MSD	106	99	101
50140212001	TB-01(030916)	103	106	97
50140212002	MW-0101-S1U(030916)	103	104	98
50140212005	MW-0517-S1(030916)	106	103	100
50140212006	MW-0621-S1(030916)	104	106	99
50140212007	FD-01(030916)	106	106	98
50140212008	EB-01(030916)	105	108	100
50140212009	MW-0704-S1(030916)	105	106	99
50140212010	MW-0612-S1(030916)	104	104	97

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-3
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1501284	1501284BLANK	106	104	99
1501285	1501285LCS	108	96	104
50140212012	MW-0622-S1(030916)	105	106	99

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-4
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1501723	1501723BLANK	103	105	99
1501724	1501724LCS	104	97	102
50140212011	MW-0606-S1(030916)	105	101	100

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1500383LCS
Date Extracted: 03/17/2016
Date Analyzed (1): 03/17/2016
Instrument: 50MV1B
LCS Lot No: 117024
Lab File ID: B031716.B\B02LCSWX.D
SDG No.: 50140212

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	53.4	107	76-122
Chlorobenzene	50.0	52.8	106	76-118
Chloroform	50.0	52.1	104	70-119
1,1-Dichloroethene	50.0	55.6	111	69-127
cis-1,2-Dichloroethene	50.0	53.7	107	74-120
trans-1,2-Dichloroethene	50.0	53.6	107	72-122
1,2-Dichloropropane	50.0	50.6	101	77-124
Ethylbenzene	50.0	54.1	108	75-123
Isopropylbenzene (Cumene)	50.0	54.9	110	84-134
Methyl-tert-butyl ether	50.0	50.5	101	65-131
1,1,2,2-Tetrachloroethane	50.0	50.9	102	72-124
Tetrachloroethene	50.0	57.0	114	69-119
Toluene	50.0	52.7	105	74-122
1,1,1-Trichloroethane	50.0	52.9	106	72-123
Trichloroethene	50.0	56.3	113	75-123
Vinyl chloride	50.0	50.3	101	61-147
Xylene (Total)	150	163	109	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1500385LCS
Date Extracted: 03/18/2016
Date Analyzed (1): 03/18/2016
Instrument: 50MV1B
LCS Lot No: 117024
Lab File ID: B031716.B\D02LCSW.D
SDG No.: 50140212

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	54.0	108	76-122
Chlorobenzene	50.0	51.5	103	76-118
Chloroform	50.0	52.4	105	70-119
1,1-Dichloroethene	50.0	53.9	108	69-127
cis-1,2-Dichloroethene	50.0	53.9	108	74-120
trans-1,2-Dichloroethene	50.0	53.9	108	72-122
1,2-Dichloropropane	50.0	51.4	103	77-124
Ethylbenzene	50.0	52.4	105	75-123
Isopropylbenzene (Cumene)	50.0	53.9	108	84-134
Methyl-tert-butyl ether	50.0	51.8	104	65-131
1,1,2,2-Tetrachloroethane	50.0	51.6	103	72-124
Tetrachloroethene	50.0	55.7	111	69-119
Toluene	50.0	52.3	105	74-122
1,1,1-Trichloroethane	50.0	53.6	107	72-123
Trichloroethene	50.0	56.2	112	75-123
Vinyl chloride	50.0	52.5	105	61-147
Xylene (Total)	150	159	106	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1501724LCS
Date Extracted: 03/20/2016
Date Analyzed (1): 03/20/2016
Instrument: 50MV1B
LCS Lot No: 117024
Lab File ID: B032016.B\B02LCSW.D
SDG No.: 50140212

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	53.1	106	76-122
Chlorobenzene	50.0	51.3	103	76-118
Chloroform	50.0	51.9	104	70-119
1,1-Dichloroethene	50.0	55.4	111	69-127
cis-1,2-Dichloroethene	50.0	53.1	106	74-120
trans-1,2-Dichloroethene	50.0	53.2	106	72-122
1,2-Dichloropropane	50.0	52.0	104	77-124
Ethylbenzene	50.0	53.0	106	75-123
Isopropylbenzene (Cumene)	50.0	54.0	108	84-134
Methyl-tert-butyl ether	50.0	50.5	101	65-131
1,1,2,2-Tetrachloroethane	50.0	55.6	111	72-124
Tetrachloroethene	50.0	56.8	114	69-119
Toluene	50.0	52.2	104	74-122
1,1,1-Trichloroethane	50.0	53.5	107	72-123
Trichloroethene	50.0	56.1	112	75-123
Vinyl chloride	50.0	53.3	107	61-147
Xylene (Total)	150	161	107	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1501285LCS
Date Extracted: 03/18/2016
Date Analyzed (1): 03/18/2016
Instrument: 50MV1B
LCS Lot No: 117024
Lab File ID: B031816.B\B02LCSW.D
SDG No.: 50140212

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	52.2	104	76-122
Chlorobenzene	50.0	50.9	102	76-118
Chloroform	50.0	51.2	102	70-119
1,1-Dichloroethene	50.0	53.5	107	69-127
cis-1,2-Dichloroethene	50.0	53.1	106	74-120
trans-1,2-Dichloroethene	50.0	51.5	103	72-122
1,2-Dichloropropane	50.0	50.0	100	77-124
Ethylbenzene	50.0	51.9	104	75-123
Isopropylbenzene (Cumene)	50.0	53.0	106	84-134
Methyl-tert-butyl ether	50.0	49.1	98	65-131
1,1,2,2-Tetrachloroethane	50.0	51.2	102	72-124
Tetrachloroethene	50.0	55.3	111	69-119
Toluene	50.0	52.1	104	74-122
1,1,1-Trichloroethane	50.0	52.1	104	72-123
Trichloroethene	50.0	54.0	108	75-123
Vinyl chloride	50.0	52.1	104	61-147
Xylene (Total)	150	157	105	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 1500386MS
Date Extracted: 03/18/2016
Date Analyzed (1): 03/18/2016
Instrument: 50MV1B
Lab File ID: B031716.B\D09.D
Parent Sample ID: MW-0621-S1(030916)
SDG No.: 50140212

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	250	ND	257	103	51-140
1,1,2,2-Tetrachloroethane	250	ND	270	108	49-138
1,1-Dichloroethene	250	ND	270	108	51-144
1,2-Dichloropropane	250	ND	255	102	56-138
Benzene	250	ND	262	105	51-140
Chlorobenzene	250	ND	246	99	45-138
Chloroform	250	ND	256	102	50-135
Ethylbenzene	250	ND	251	101	36-146
Isopropylbenzene (Cumene)	250	ND	254	102	43-159
Methyl-tert-butyl ether	250	ND	260	104	43-146
Tetrachloroethene	250	ND	263	105	38-139
Toluene	250	ND	252	100	44-140
Trichloroethene	250	3030	2890	-59	44-146
Vinyl chloride	250	ND	258	103	43-166
Xylene (Total)	750	ND	758	101	35-146
cis-1,2-Dichloroethene	250	124	382	103	43-144
trans-1,2-Dichloroethene	250	38.1	295	103	50-139

Spike Recovery: 1 out of 17 outside limits.

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV1B Matrix Spike Duplicate - Sample No: 1500387MSD

Lab File ID (2): B031716.B\D10.D Date Analyzed (2): 03/18/2016

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	250	265	106	3	0-20	51-140
1,1,2,2-Tetrachloroethane	250	276	110	2	0-20	49-138
1,1-Dichloroethene	250	280	112	4	0-20	51-144
1,2-Dichloropropane	250	264	106	4	0-20	56-138
Benzene	250	274	110	5	0-20	51-140
Chlorobenzene	250	259	104	5	0-20	45-138
Chloroform	250	268	107	5	0-20	50-135
Ethylbenzene	250	259	104	3	0-20	36-146
Isopropylbenzene (Cumene)	250	263	105	4	0-20	43-159
Methyl-tert-butyl ether	250	272	109	4	0-20	43-146
Tetrachloroethene	250	276	110	5	0-20	38-139
Toluene	250	259	103	3	0-20	44-140
Trichloroethene	250	2990	-18	4	0-20	44-146
Vinyl chloride	250	266	106	3	0-20	43-166
Xylene (Total)	750	787	105	4	0-20	35-146
cis-1,2-Dichloroethene	250	392	107	2	0-20	43-144
trans-1,2-Dichloroethene	250	299	105	2	0-20	50-139

RPD: 0 out of 17 outside limits.

Spike Recovery: 1 out of 17 outside limits.

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 1501728MS
Date Extracted: 03/20/2016
Date Analyzed (1): 03/20/2016
Instrument: 50MV1B
Lab File ID: B032016.B\B10.D
Parent Sample ID: 50140379038
SDG No.: 50140212

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	50.0	ND	60.1	117	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	55.4	111	49-138
1,1-Dichloroethene	50.0	ND	59.4	118	51-144
1,2-Dichloropropane	50.0	ND	58.0	116	56-138
Benzene	50.0	ND	58.3	115	51-140
Chlorobenzene	50.0	ND	55.3	109	45-138
Chloroform	50.0	ND	56.6	113	50-135
Ethylbenzene	50.0	5.6	62.1	113	36-146
Isopropylbenzene (Cumene)	50.0	ND	57.3	113	43-159
Methyl-tert-butyl ether	50.0	ND	57.3	114	43-146
Tetrachloroethene	50.0	ND	59.7	119	38-139
Toluene	50.0	6.5	61.6	110	44-140
Trichloroethene	50.0	ND	62.0	123	44-146
Vinyl chloride	50.0	7.4	61.2	108	43-166
Xylene (Total)	150	14.1	182	112	35-146
cis-1,2-Dichloroethene	50.0	10.1	68.9	118	43-144
trans-1,2-Dichloroethene	50.0	ND	61.1	115	50-139

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV1B Matrix Spike Duplicate - Sample No: 1501729MSD

Lab File ID (2): B032016.B\B11.D Date Analyzed (2): 03/20/2016

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	50.0	56.3	110	7	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	56.2	112	1	0-20	49-138
1,1-Dichloroethene	50.0	56.3	112	5	0-20	51-144
1,2-Dichloropropane	50.0	54.7	109	6	0-20	56-138
Benzene	50.0	56.1	111	4	0-20	51-140
Chlorobenzene	50.0	53.6	106	3	0-20	45-138
Chloroform	50.0	54.1	108	5	0-20	50-135
Ethylbenzene	50.0	60.0	109	3	0-20	36-146
Isopropylbenzene (Cumene)	50.0	54.7	108	5	0-20	43-159
Methyl-tert-butyl ether	50.0	55.2	109	4	0-20	43-146
Tetrachloroethene	50.0	57.4	115	4	0-20	38-139
Toluene	50.0	59.3	105	4	0-20	44-140
Trichloroethene	50.0	58.7	117	5	0-20	44-146
Vinyl chloride	50.0	57.9	101	6	0-20	43-166
Xylene (Total)	150	173	106	5	0-20	35-146
cis-1,2-Dichloroethene	50.0	66.2	112	4	0-20	43-144
trans-1,2-Dichloroethene	50.0	57.9	109	5	0-20	50-139

RPD: 0 out of 17 outside limits.

Spike Recovery: 0 out of 17 outside limits.

SAMPLE NO.

1500382BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B Matrix: Water Lab Sample ID: 1500382

Lab File ID: B031716.B\B03MBWX.D Date Analyzed: 03/17/2016 Time: 13:26

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1500383LCS	1500383	B031716.B\B02LCSWX.D	03/17/2016 12:51
MW-0102-S1U(030916)	50140212003	B031716.B\B17.D	03/17/2016 21:38
MW-0102-S1U(030916)	50140212003	B031716.B\B18.D	03/17/2016 22:13
MW-0504-S1(030916)	50140212004	B031716.B\B19.D	03/17/2016 22:48
MW-0504-S1(030916)	50140212004	B031716.B\B20.D	03/17/2016 23:23

SAMPLE NO.

1500384BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B Matrix: Water Lab Sample ID: 1500384

Lab File ID: B031716.B\D03MBW.D Date Analyzed: 03/18/2016 Time: 01:44

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1500385LCS	1500385	B031716.B\D02LCSW.D	03/18/2016 01:09
TB-01(030916)	50140212001	B031716.B\D04.D	03/18/2016 02:20
MW-0101-S1U(030916)	50140212002	B031716.B\D05.D	03/18/2016 02:55
MW-0517-S1(030916)	50140212005	B031716.B\D06.D	03/18/2016 03:30
MW-0517-S1(030916)	50140212005	B031716.B\D07.D	03/18/2016 04:05
MW-0621-S1(030916)	50140212006	B031716.B\D08.D	03/18/2016 04:41
1500386MS	1500386	B031716.B\D09.D	03/18/2016 05:16
1500387MSD	1500387	B031716.B\D10.D	03/18/2016 05:51
MW-0621-S1(030916)	50140212006	B031716.B\D11.D	03/18/2016 06:26
FD-01(030916)	50140212007	B031716.B\D12.D	03/18/2016 07:02
FD-01(030916)	50140212007	B031716.B\D13.D	03/18/2016 07:37
EB-01(030916)	50140212008	B031716.B\D14.D	03/18/2016 08:12
MW-0704-S1(030916)	50140212009	B031716.B\D15.D	03/18/2016 08:47
MW-0704-S1(030916)	50140212009	B031716.B\D16.D	03/18/2016 09:22
MW-0612-S1(030916)	50140212010	B031716.B\D17.D	03/18/2016 09:58
MW-0612-S1(030916)	50140212010	B031716.B\D18.D	03/18/2016 10:33

SAMPLE NO.

1501284BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B Matrix: Water Lab Sample ID: 1501284

Lab File ID: B031816.B\B03MBW.D Date Analyzed: 03/18/2016 Time: 14:18

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1501285LCS	1501285	B031816.B\B02LCSW.D	03/18/2016 13:43
MW-0622-S1(030916)	50140212012	B031816.B\B04.D	03/18/2016 14:53
MW-0622-S1(030916)	50140212012	B031816.B\B05.D	03/18/2016 15:28

SAMPLE NO.

1501723BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Instrument ID: 50MV1B Matrix: Water Lab Sample ID: 1501723

Lab File ID: B032016.B\B03MBW.D Date Analyzed: 03/20/2016 Time: 15:38

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
MW-0606-S1(030916)	50140212011	B031716.B\D19.D	03/18/2016 11:08
1501724LCS	1501724	B032016.B\B02LCSW.D	03/20/2016 15:02
MW-0606-S1(030916)	50140212011	B032016.B\B20.D	03/21/2016 01:36

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: A031516CAL.B\A00BFB.D BFB Injection Date: 03/15/2016

Instrument ID: 50MV1A BFB Injection Time: 17:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	22.57	
75	30.00 - 60.00% of mass 95	51.56	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.66	
173	Less than 2.00% of mass 174	0.74	(0.83)[1]
174	50.00 - 100.00% of mass 95	89.10	
175	5.00 - 9.00% of mass 174	6.74	(7.57)[1]
176	95.00 - 101.00% of mass 174	89.27	(100.19)[1]
177	5.00 - 9.00% of mass 176	5.88	(6.59)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9437883CAL1	9437883CAL1	A031516CAL.B\A01CAL.D	03/15/2016	17:44
9437878CAL2	9437878CAL2	A031516CAL.B\A02CAL.D	03/15/2016	18:19
9437880CAL3	9437880CAL3	A031516CAL.B\A03CAL.D	03/15/2016	18:54
9437886CAL4	9437886CAL4	A031516CAL.B\A04CAL.D	03/15/2016	19:29
9437877CAL5	9437877CAL5	A031516CAL.B\A05CAL.D	03/15/2016	20:04
9437884CAL6	9437884CAL6	A031516CAL.B\A06CAL.D	03/15/2016	20:39
9437882CAL7	9437882CAL7	A031516CAL.B\A07CAL.D	03/15/2016	21:14
9437879CAL8	9437879CAL8	A031516CAL.B\A08CAL.D	03/15/2016	21:49

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo
Lab File ID: A031516CAL.B\C00BFB.D BFB Injection Date: 03/15/2016
Instrument ID: 50MV1A BFB Injection Time: 23:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	20.93	
75	30.00 - 60.00% of mass 95	49.49	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.47	
173	Less than 2.00% of mass 174	0.27	(0.27)[1]
174	50.00 - 100.00% of mass 95	98.33	
175	5.00 - 9.00% of mass 174	7.75	(7.88)[1]
176	95.00 - 101.00% of mass 174	94.52	(96.13)[1]
177	5.00 - 9.00% of mass 176	6.40	(6.77)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9437881ICV	9437881ICV	A031516CAL.B\C02ICV.D	03/16/2016	00:44

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: A032016.B\A00BFB.D BFB Injection Date: 03/20/2016

Instrument ID: 50MV1A BFB Injection Time: 13:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	21.81	
75	30.00 - 60.00% of mass 95	49.25	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.79	
173	Less than 2.00% of mass 174	0.96	(1.02)[1]
174	50.00 - 100.00% of mass 95	93.54	
175	5.00 - 9.00% of mass 174	6.69	(7.15)[1]
176	95.00 - 101.00% of mass 174	90.48	(96.73)[1]
177	5.00 - 9.00% of mass 176	5.95	(6.58)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9458733CCV	9458733CCV	A032016.B\A01CCV.D	03/20/2016	14:09
MW-0101-S1U(030916)	50140212002	A032016.B\A20.D	03/21/2016	01:18

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: B031516CAL.B\B00BFB.D BFB Injection Date: 03/15/2016

Instrument ID: 50MV1B BFB Injection Time: 17:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	21.15	
75	30.00 - 60.00% of mass 95	50.59	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.28	
173	Less than 2.00% of mass 174	0.71	(0.80)[1]
174	50.00 - 100.00% of mass 95	88.56	
175	5.00 - 9.00% of mass 174	6.48	(7.32)[1]
176	95.00 - 101.00% of mass 174	86.97	(98.21)[1]
177	5.00 - 9.00% of mass 176	5.57	(6.40)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9438511CAL1	9438511CAL1	B031516CAL.B\B01CAL.D	03/15/2016	18:01
9438510CAL2	9438510CAL2	B031516CAL.B\B02CAL.D	03/15/2016	18:36
9438515CAL3	9438515CAL3	B031516CAL.B\B03CAL.D	03/15/2016	19:11
9438512CAL4	9438512CAL4	B031516CAL.B\B04CAL.D	03/15/2016	19:46
9438514CAL5	9438514CAL5	B031516CAL.B\B05CAL.D	03/15/2016	20:21
9438517CAL6	9438517CAL6	B031516CAL.B\B06CAL.D	03/15/2016	20:56
9438518CAL7	9438518CAL7	B031516CAL.B\B07CAL.D	03/15/2016	21:31
9438516CAL8	9438516CAL8	B031516CAL.B\B08CAL.D	03/15/2016	22:06
9438513ICV	9438513ICV	B031516CAL.B\B10ICV.D	03/15/2016	23:17

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: B031716.B\B00BFB.D BFB Injection Date: 03/17/2016

Instrument ID: 50MV1B BFB Injection Time: 11:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	20.84	
75	30.00 - 60.00% of mass 95	51.30	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.66	
173	Less than 2.00% of mass 174	0.93	(0.96)[1]
174	50.00 - 100.00% of mass 95	97.27	
175	5.00 - 9.00% of mass 174	7.51	(7.72)[1]
176	95.00 - 101.00% of mass 174	93.20	(95.82)[1]
177	5.00 - 9.00% of mass 176	6.18	(6.63)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9454494CCV	9454494CCV	B031716.B\B01CCV.D	03/17/2016	12:15
1500383LCS	1500383LCS	B031716.B\B02LCSWX.D	03/17/2016	12:51
1500382BLANK	1500382BLANK	B031716.B\B03MBWX.D	03/17/2016	13:26
MW-0102-S1U(030916)	50140212003	B031716.B\B17.D	03/17/2016	21:38
MW-0102-S1U(030916)	50140212003	B031716.B\B18.D	03/17/2016	22:13
MW-0504-S1(030916)	50140212004	B031716.B\B19.D	03/17/2016	22:48
MW-0504-S1(030916)	50140212004	B031716.B\B20.D	03/17/2016	23:23

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo
Lab File ID: B031716.B\D00BFB.D BFB Injection Date: 03/17/2016
Instrument ID: 50MV1B BFB Injection Time: 23:58

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	20.91	
75	30.00 - 60.00% of mass 95	49.06	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.50	
173	Less than 2.00% of mass 174	0.31	(0.32)[1]
174	50.00 - 100.00% of mass 95	98.53	
175	5.00 - 9.00% of mass 174	6.97	(7.07)[1]
176	95.00 - 101.00% of mass 174	95.17	(96.59)[1]
177	5.00 - 9.00% of mass 176	6.31	(6.63)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9457513CCV	9457513CCV	B031716.B\D01CCV.D	03/18/2016	00:34
1500385LCS	1500385LCS	B031716.B\D02LCSW.D	03/18/2016	01:09
1500384BLANK	1500384BLANK	B031716.B\D03MBW.D	03/18/2016	01:44
TB-01(030916)	50140212001	B031716.B\D04.D	03/18/2016	02:20
MW-0101-S1U(030916)	50140212002	B031716.B\D05.D	03/18/2016	02:55
MW-0517-S1(030916)	50140212005	B031716.B\D06.D	03/18/2016	03:30
MW-0517-S1(030916)	50140212005	B031716.B\D07.D	03/18/2016	04:05
MW-0621-S1(030916)	50140212006	B031716.B\D08.D	03/18/2016	04:41
1500386MS	1500386MS	B031716.B\D09.D	03/18/2016	05:16
1500387MSD	1500387MSD	B031716.B\D10.D	03/18/2016	05:51
MW-0621-S1(030916)	50140212006	B031716.B\D11.D	03/18/2016	06:26
FD-01(030916)	50140212007	B031716.B\D12.D	03/18/2016	07:02
FD-01(030916)	50140212007	B031716.B\D13.D	03/18/2016	07:37
EB-01(030916)	50140212008	B031716.B\D14.D	03/18/2016	08:12
MW-0704-S1(030916)	50140212009	B031716.B\D15.D	03/18/2016	08:47
MW-0704-S1(030916)	50140212009	B031716.B\D16.D	03/18/2016	09:22
MW-0612-S1(030916)	50140212010	B031716.B\D17.D	03/18/2016	09:58
MW-0612-S1(030916)	50140212010	B031716.B\D18.D	03/18/2016	10:33
MW-0606-S1(030916)	50140212011	B031716.B\D19.D	03/18/2016	11:08

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: B031816.B\B00BFB.D BFB Injection Date: 03/18/2016

Instrument ID: 50MV1B BFB Injection Time: 12:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	21.71	
75	30.00 - 60.00% of mass 95	51.38	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.78	
173	Less than 2.00% of mass 174	0.92	(0.99)[1]
174	50.00 - 100.00% of mass 95	93.46	
175	5.00 - 9.00% of mass 174	6.88	(7.36)[1]
176	95.00 - 101.00% of mass 174	90.96	(97.33)[1]
177	5.00 - 9.00% of mass 176	6.15	(6.76)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9457676CCV	9457676CCV	B031816.B\B01CCV.D	03/18/2016	13:08
1501285LCS	1501285LCS	B031816.B\B02LCSW.D	03/18/2016	13:43
1501284BLANK	1501284BLANK	B031816.B\B03MBW.D	03/18/2016	14:18
MW-0622-S1(030916)	50140212012	B031816.B\B04.D	03/18/2016	14:53
MW-0622-S1(030916)	50140212012	B031816.B\B05.D	03/18/2016	15:28

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Lab File ID: B032016.B\B00BFB.D BFB Injection Date: 03/20/2016

Instrument ID: 50MV1B BFB Injection Time: 13:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	23.22	
75	30.00 - 60.00% of mass 95	52.45	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	7.06	
173	Less than 2.00% of mass 174	0.24	(0.26)[1]
174	50.00 - 100.00% of mass 95	92.23	
175	5.00 - 9.00% of mass 174	6.93	(7.51)[1]
176	95.00 - 101.00% of mass 174	90.05	(97.64)[1]
177	5.00 - 9.00% of mass 176	5.70	(6.33)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9458855CCV	9458855CCV	B032016.B\B01CCV.D	03/20/2016	14:27
1501724LCS	1501724LCS	B032016.B\B02LCSW.D	03/20/2016	15:02
1501723BLANK	1501723BLANK	B032016.B\B03MBW.D	03/20/2016	15:38
MW-0606-S1(030916)	50140212011	B032016.B\B20.D	03/21/2016	01:36

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Sample ID : 9458733CCV Init. Calib. Date: 03/15/2016 Time: 03/15/2016

Instrument ID: 50MV1A GC Column: Col 1 Date Analyzed: 03/20/2016

Lab File ID: A032016.B\A01CCV.D Time Analyzed: 14:09

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		279057	7.39	149973	8.886	392625	4.216
UPPER LIMIT		558114	7.89	299946	9.386	785250	4.716
LOWER LIMIT		139528.5	6.89	74986.5	8.386	196312.5	3.716
LAB SAMPLE ID	SAMPLE NO.						
50140212002	MW-0101-S1U(030916)	290656	7.392	147396	8.883	377471	4.217

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Sample ID : 9454494CCV Init. Calib. Date: 03/15/2016 Time: 03/15/2016

Instrument ID: 50MV1B GC Column: Col 1 Date Analyzed: 03/17/2016

Lab File ID: B031716.B\B01CCV.D Time Analyzed: 12:15

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		227590	7.391	126736	8.887	325479	4.232
UPPER LIMIT		455180	7.891	253472	9.387	650958	4.732
LOWER LIMIT		113795	6.891	63368	8.387	162739.5	3.732
LAB SAMPLE ID	SAMPLE NO.						
1500382	1500382BLANK	218873	7.394	116111	8.885	286387	4.23
1500383	1500383LCS	230129	7.392	128639	8.888	334260	4.233
50140212003	MW-0102-S1U(030916)	226973	7.392	121243	8.887	297224	4.233
50140212003 DL 50	MW-0102-S1U(030916)	224876	7.393	118038	8.884	275874	4.234
50140212004	MW-0504-S1(030916)	206415	7.395	109017	8.885	270141	4.23
50140212004 DL 25	MW-0504-S1(030916)	216759	7.392	113072	8.883	278902	4.233

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Sample ID : 9457513CCV Init. Calib. Date: 03/15/2016 Time: 03/15/2016

Instrument ID: 50MV1B GC Column: Col 1 Date Analyzed: 03/18/2016

Lab File ID: B031716.B\D01CCV.D Time Analyzed: 00:34

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		226513	7.391	126426	8.882	333322	4.232
UPPER LIMIT		453026	7.891	252852	9.382	666644	4.732
LOWER LIMIT		113256.5	6.891	63213	8.382	166661	3.732
LAB SAMPLE ID	SAMPLE NO.						
1500384	1500384BLANK	216975	7.392	114182	8.887	286321	4.233
1500385	1500385LCS	230632	7.391	128567	8.887	332031	4.232
1500386	1500386MS	228187	7.392	126395	8.883	327095	4.233
1500387	1500387MSD	233083	7.391	129369	8.887	330432	4.232
50140212001	TB-01(030916)	217355	7.391	114201	8.887	284635	4.232
50140212002	MW-0101-S1U(030916)	220784	7.391	115236	8.887	300787	4.232
50140212005	MW-0517-S1(030916)	217944	7.394	117812	8.885	300868	4.235
50140212005 DL 20	MW-0517-S1(030916)	219551	7.391	116427	8.886	291386	4.232
50140212006	MW-0621-S1(030916)	208847	7.392	110683	8.888	282500	4.233
50140212006 DL 50	MW-0621-S1(030916)	212554	7.391	113722	8.887	281182	4.232
50140212007	FD-01(030916)	216981	7.394	115723	8.885	293261	4.235
50140212007 DL 50	FD-01(030916)	215337	7.391	115768	8.887	287294	4.232
50140212008	EB-01(030916)	204670	7.391	112243	8.887	272648	4.232
50140212009	MW-0704-S1(030916)	217729	7.392	114168	8.888	294380	4.233
50140212009 DL 50	MW-0704-S1(030916)	214251	7.394	114734	8.884	286348	4.23
50140212010	MW-0612-S1(030916)	212430	7.392	111908	8.888	285898	4.233
50140212010 DL 25	MW-0612-S1(030916)	216572	7.392	113059	8.888	288773	4.233
50140212011	MW-0606-S1(030916)	207699	7.391	112735	8.886	281423	4.232

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Sample ID : 9457676CCV Init. Calib. Date: 03/15/2016 Time: 03/15/2016

Instrument ID: 50MV1B GC Column: Col 1 Date Analyzed: 03/18/2016

Lab File ID: B031816.B\B01CCV.D Time Analyzed: 13:08

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		219206	7.389	122428	8.885	317297	4.23
UPPER LIMIT		438412	7.889	244856	9.385	634594	4.73
LOWER LIMIT		109603	6.889	61214	8.385	158648.5	3.73
LAB SAMPLE ID	SAMPLE NO.						
1501284	1501284BLANK	212340	7.392	113850	8.887	287557	4.233
1501285	1501285LCS	226849	7.392	126221	8.888	333423	4.233
50140212012	MW-0622-S1(030916)	204467	7.394	107997	8.885	283508	4.23
50140212012 DL	MW-0622-S1(030916)	206697	7.39	111857	8.886	277452	4.231

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT
* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50140212 Contract: Racer Kokomo

Sample ID : 9458855CCV Init. Calib. Date: 03/15/2016 Time: 03/15/2016

Instrument ID: 50MV1B GC Column: Col 1 Date Analyzed: 03/20/2016

Lab File ID: B032016.B\B01CCV.D Time Analyzed: 14:27

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		235995	7.394	131078	8.884	344521	4.235
UPPER LIMIT		471990	7.894	262156	9.384	689042	4.735
LOWER LIMIT		117997.5	6.894	65539	8.384	172260.5	3.735
LAB SAMPLE ID	SAMPLE NO.						
1501723	1501723BLANK	228213	7.393	119534	8.884	304322	4.234
1501724	1501724LCS	241053	7.391	131974	8.887	351230	4.232
50140212011	MW-0606-S1(030916)	222141	7.392	117401	8.887	306969	4.233

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-01(030916)

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 02:20 Lab Sample ID: 50140212001

Date Analyzed: 03/18/2016 02:20 Lab File ID: B031716.B\D04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-01(030916)

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 02:20 Lab Sample ID: 50140212001

Date Analyzed: 03/18/2016 02:20 Lab File ID: B031716.B\D04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d
Lab Smp Id: 50140212001 Client Smp ID: TB-01(030916)
Inj Date : 18-MAR-2016 02:20
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212001
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 77
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.020	1.015	(0.241)	1861	0.54739	0.547	
	18 Methylene Chloride	84	1.904	1.904	(0.450)	2010	1.23680	1.24	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	78509	53.1158	53.1	
*	46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	284635	50.0000		
$	57 Toluene-d8	98	6.078	6.073	(0.822)	274239	48.5920	48.6	
	58 Toluene	91	6.151	6.146	(0.832)	3435	0.49623	0.496	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	217355	50.0000		
$	76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	101946	51.6678	51.7	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	114201	50.0000		
	92 1,4-Dichlorobenzene	146	8.897	8.897	(1.001)	265	0.06718	0.0672(Q)	
	100 2,methyl-naphthalene	142	10.706	10.702	(1.205)	1280	0.32712	0.327	

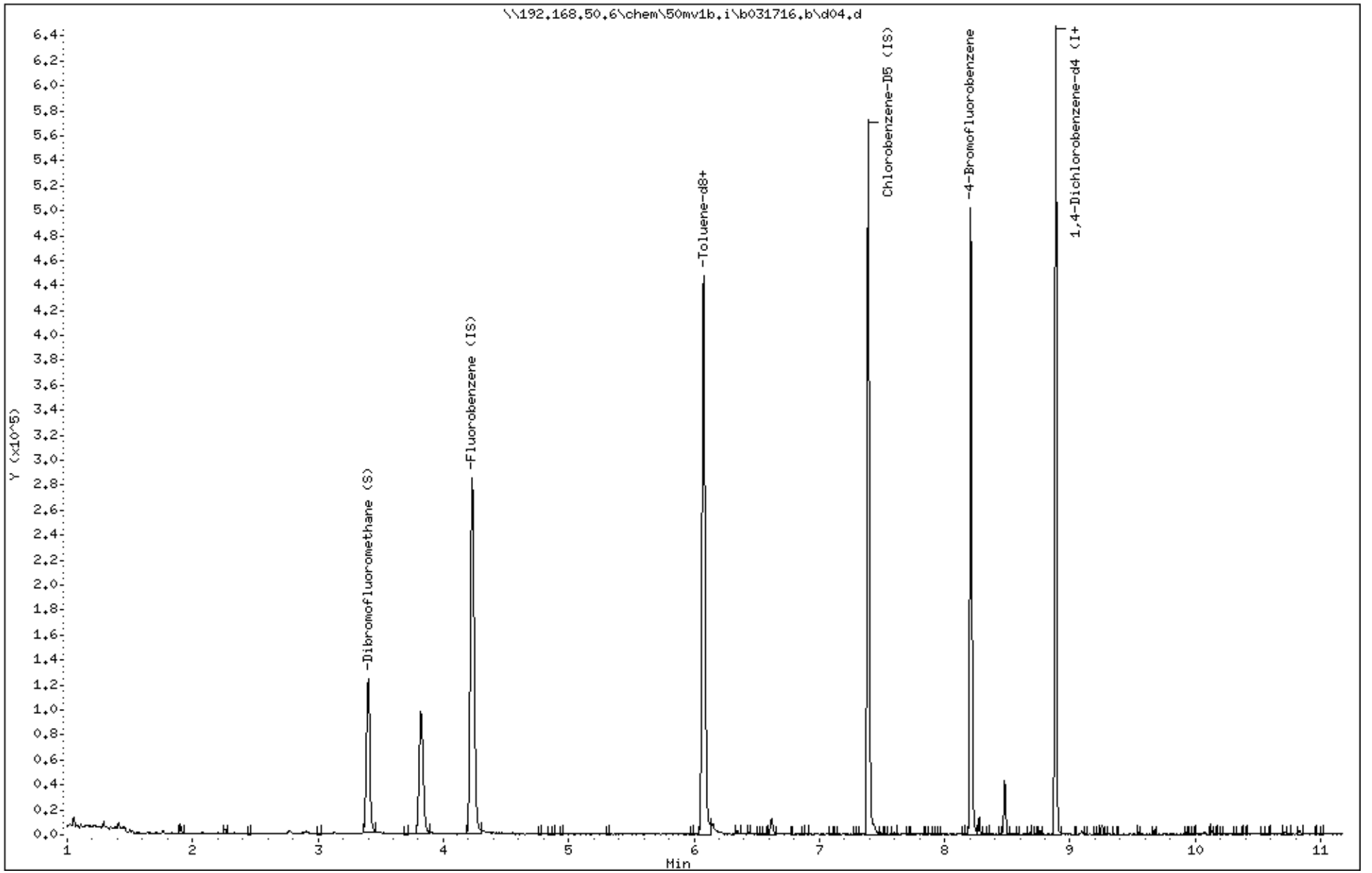
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d
Date : 18-MAR-2016 02:20
Client ID: TB-01(030916)
Instrument: 50mv1b.i
Sample Info: 50140212001
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d

Date : 18-MAR-2016 02:20

Client ID: TB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212001

Purge Volume: 5.0

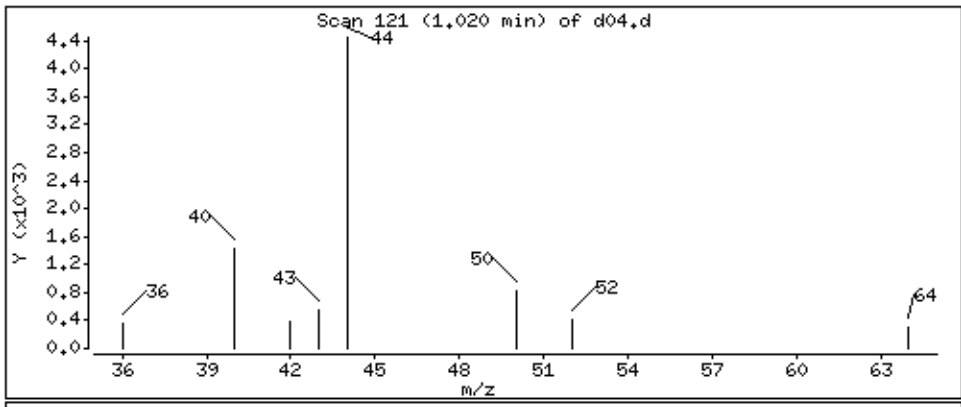
Operator: grm

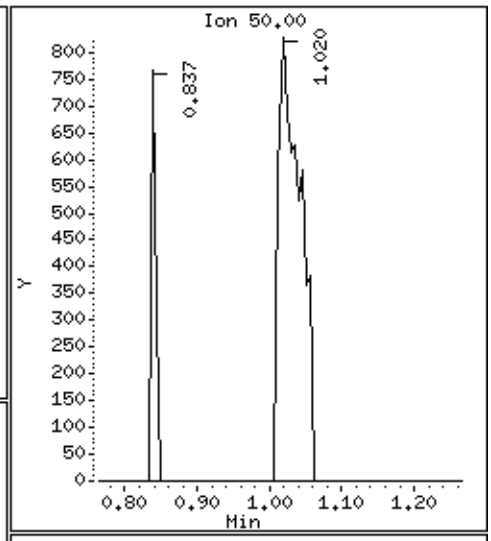
Column phase: DB-624

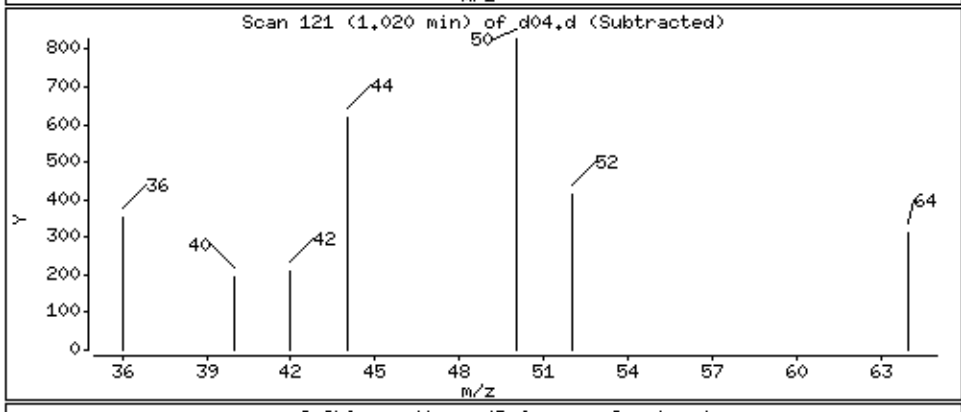
Column diameter: 0.18

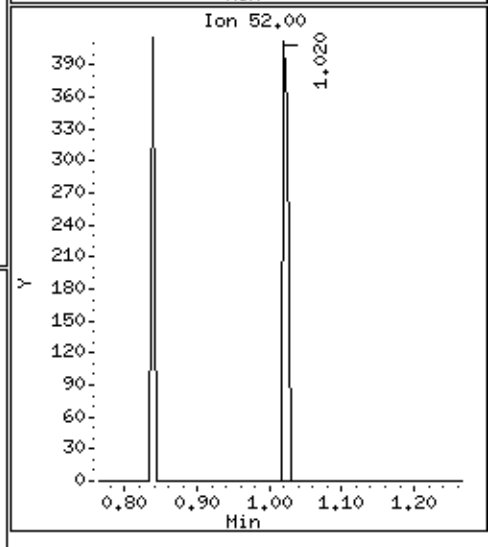
2 Chloromethane

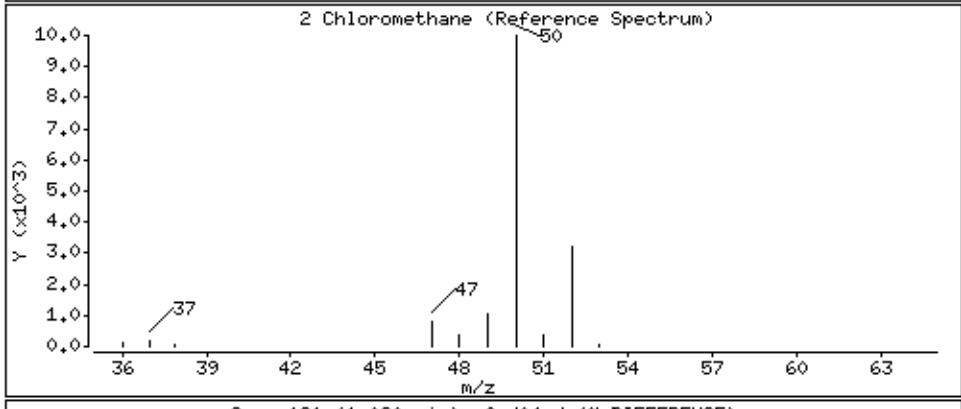
Concentration: 0.547 ppb

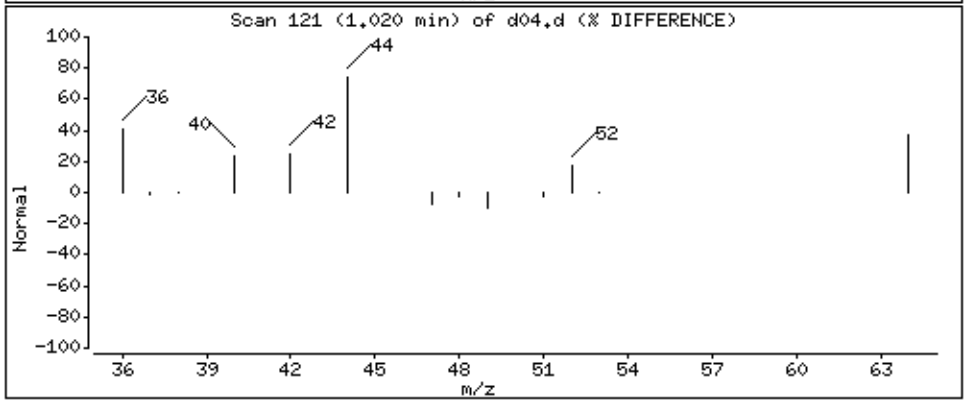












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d

Date : 18-MAR-2016 02:20

Client ID: TB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212001

Purge Volume: 5.0

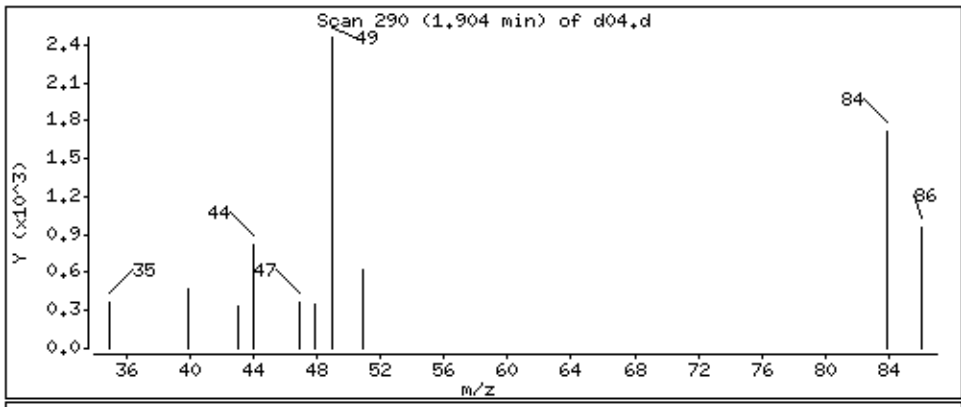
Operator: grm

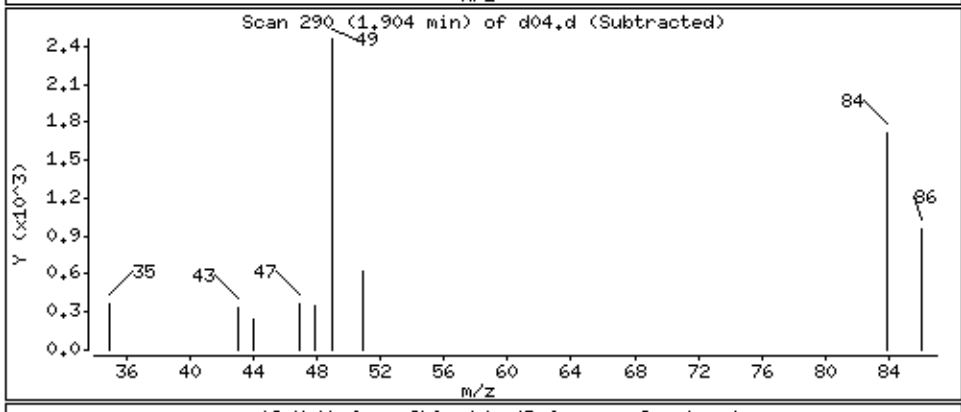
Column phase: DB-624

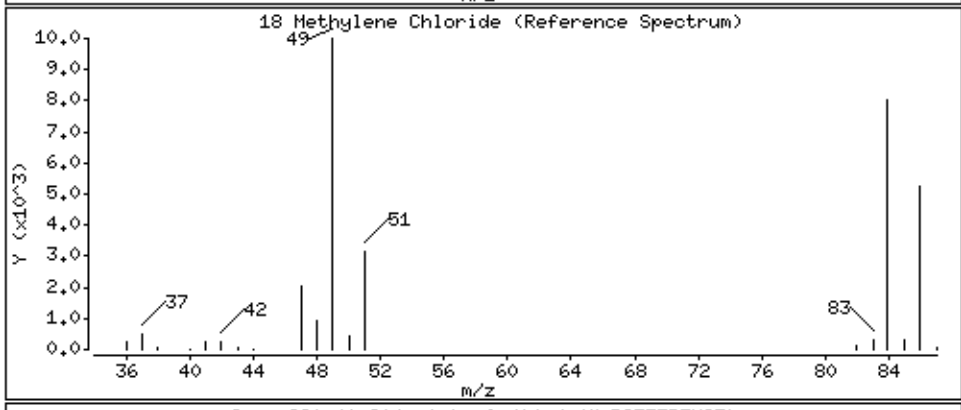
Column diameter: 0.18

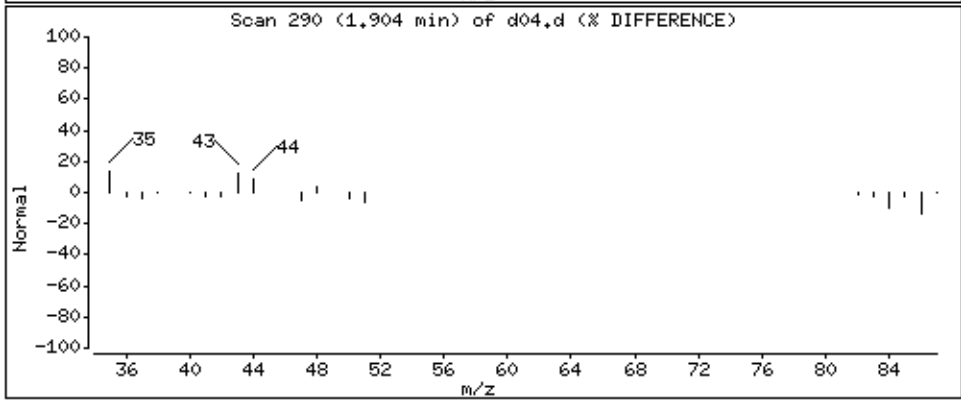
18 Methylene Chloride

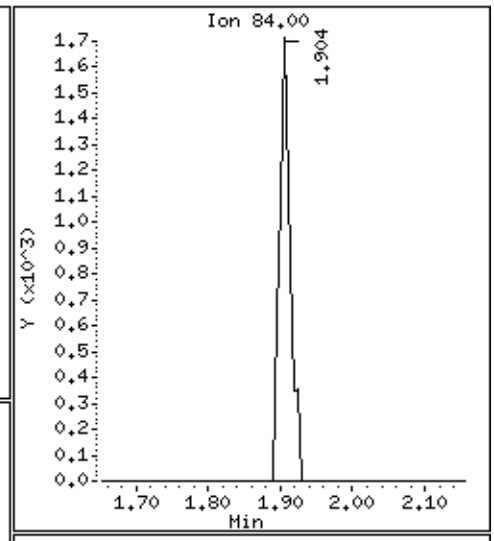
Concentration: 1.24 ppb

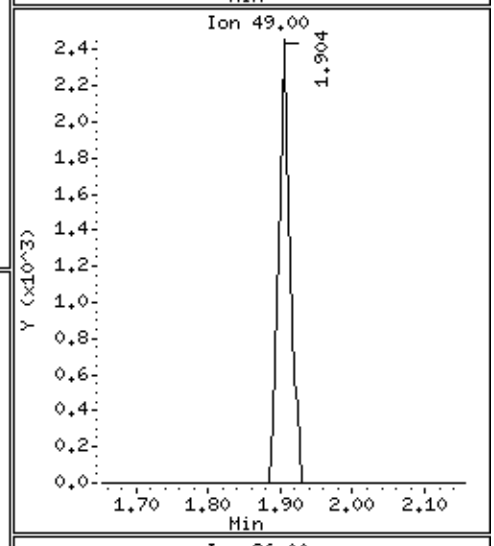


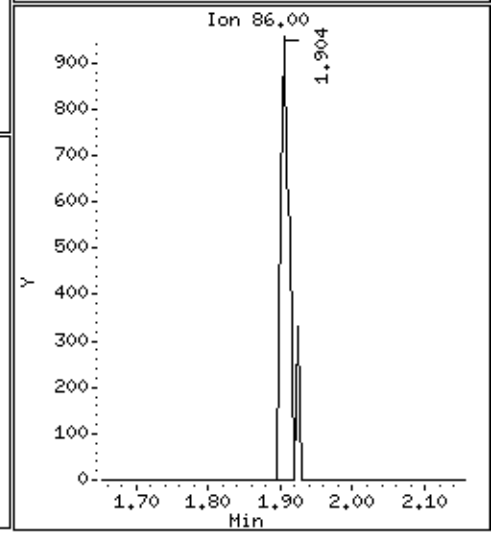












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d

Date : 18-MAR-2016 02:20

Client ID: TB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212001

Purge Volume: 5.0

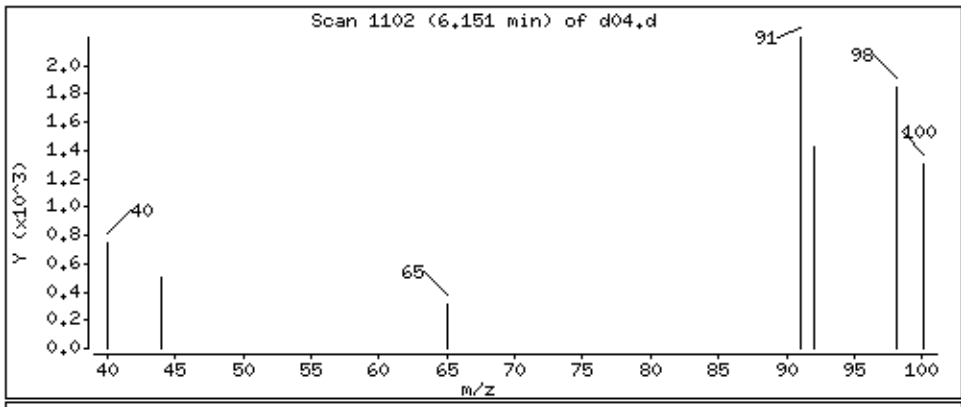
Operator: grm

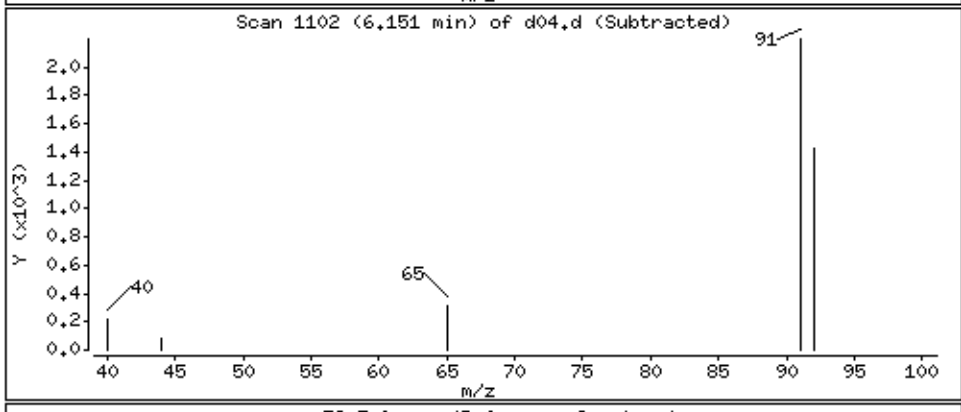
Column phase: DB-624

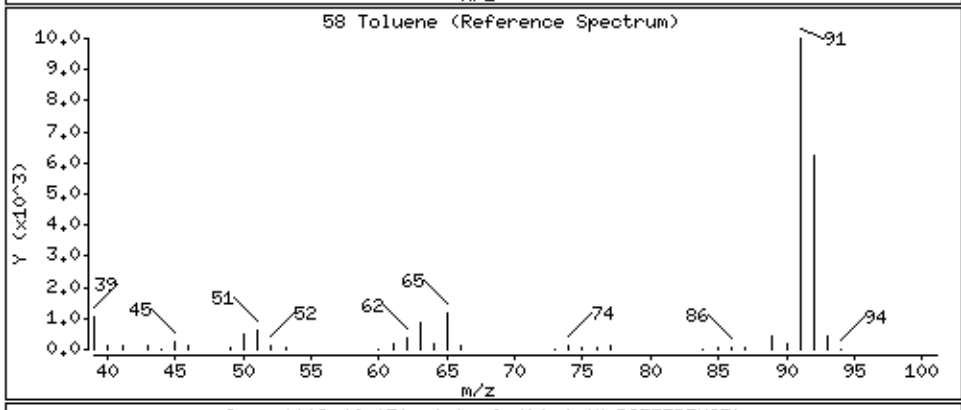
Column diameter: 0.18

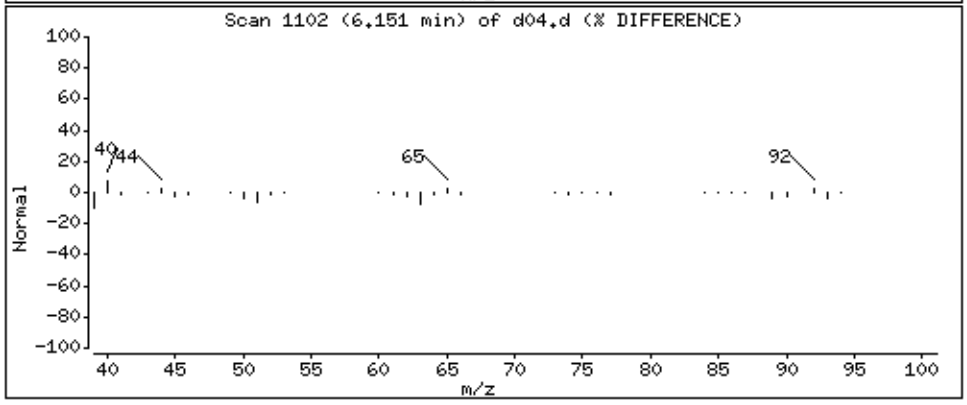
58 Toluene

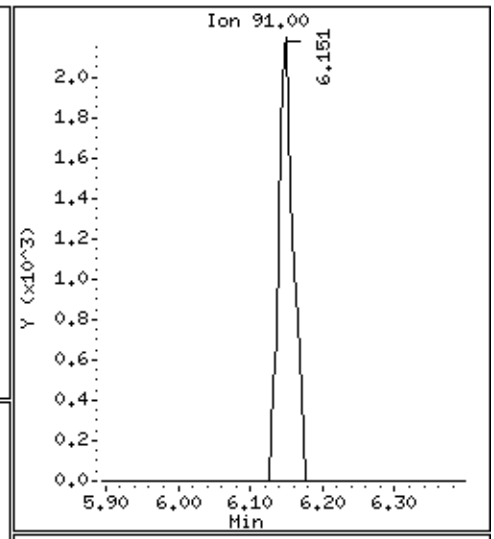
Concentration: 0.496 ppb

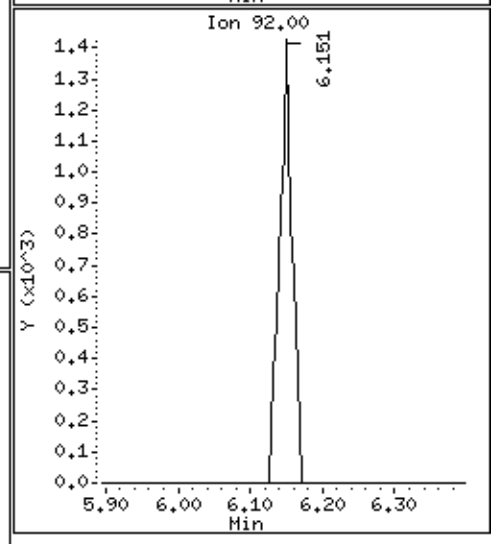












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d

Date : 18-MAR-2016 02:20

Client ID: TB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212001

Purge Volume: 5.0

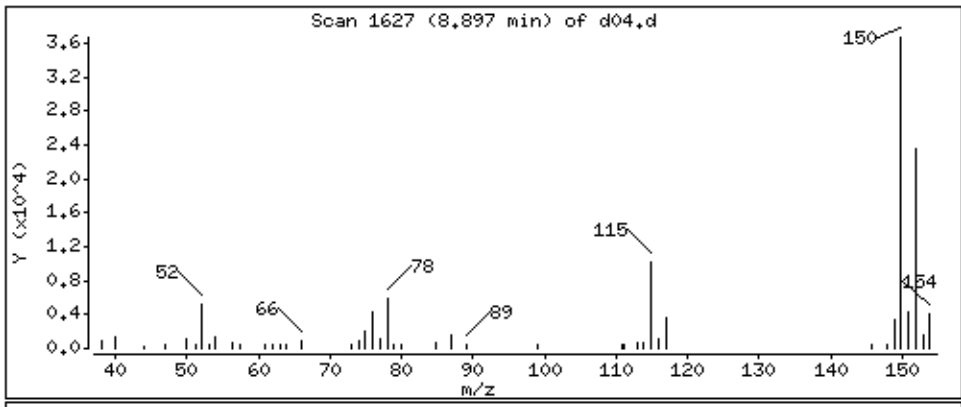
Operator: grm

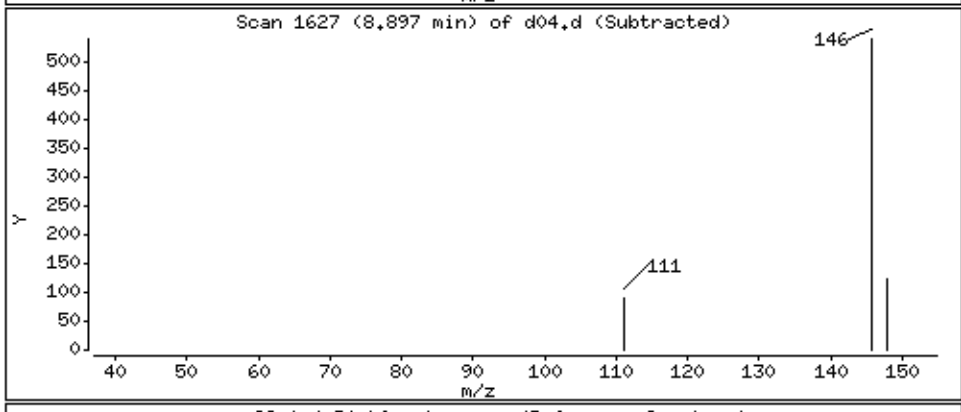
Column phase: DB-624

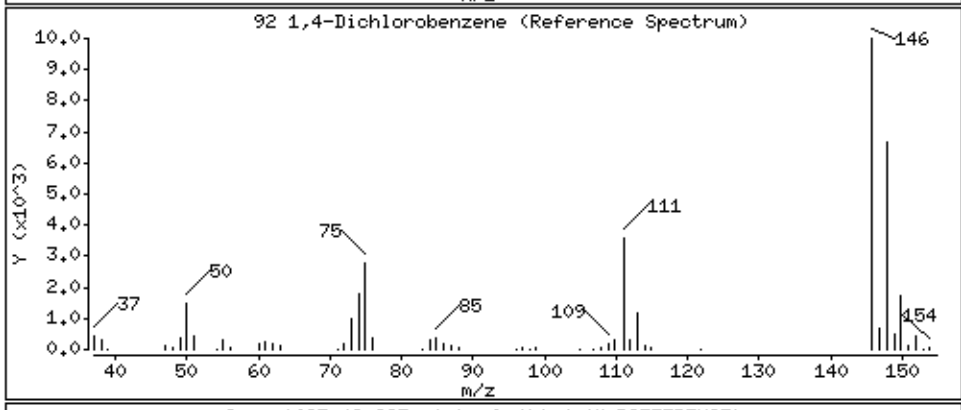
Column diameter: 0.18

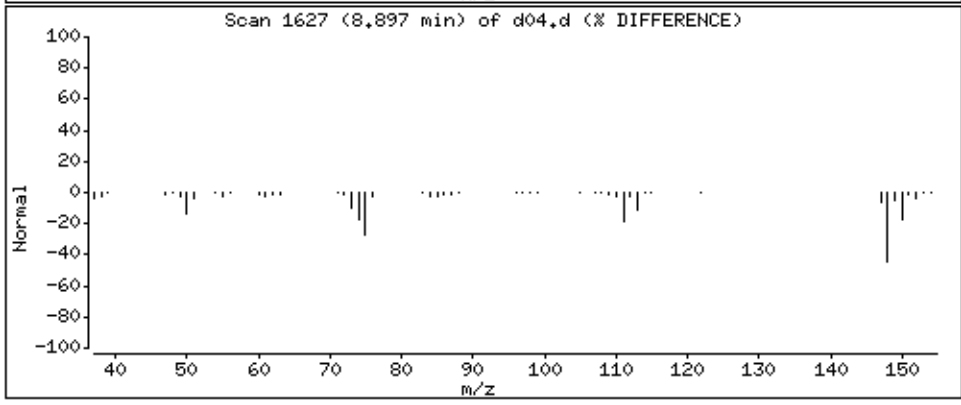
92 1,4-Dichlorobenzene

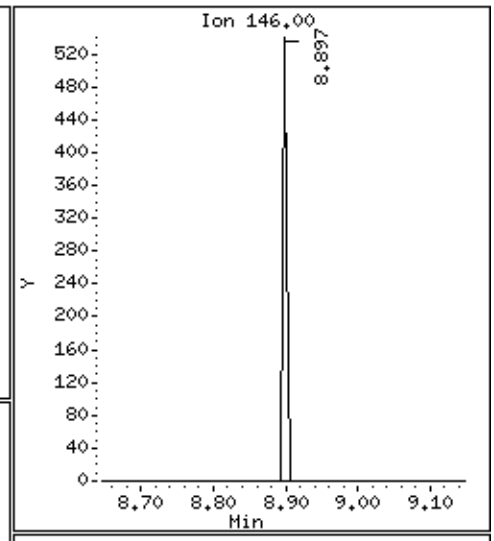
Concentration: 0.0672 ppb

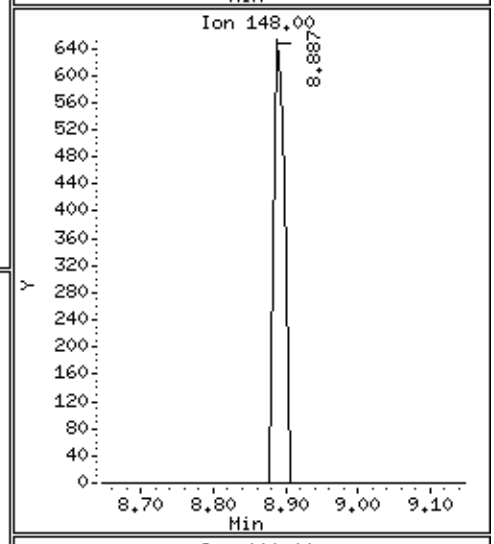


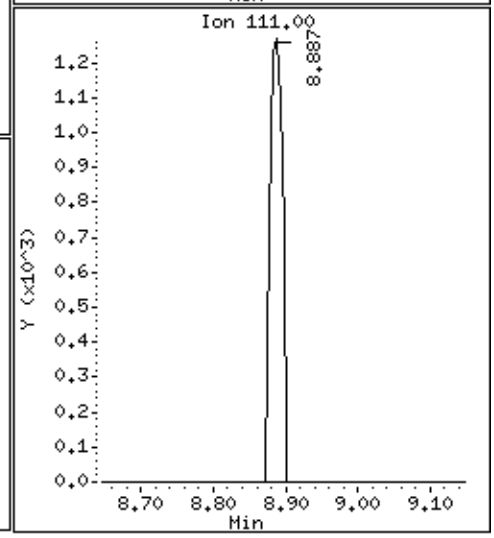












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d04.d

Date : 18-MAR-2016 02:20

Client ID: TB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212001

Purge Volume: 5.0

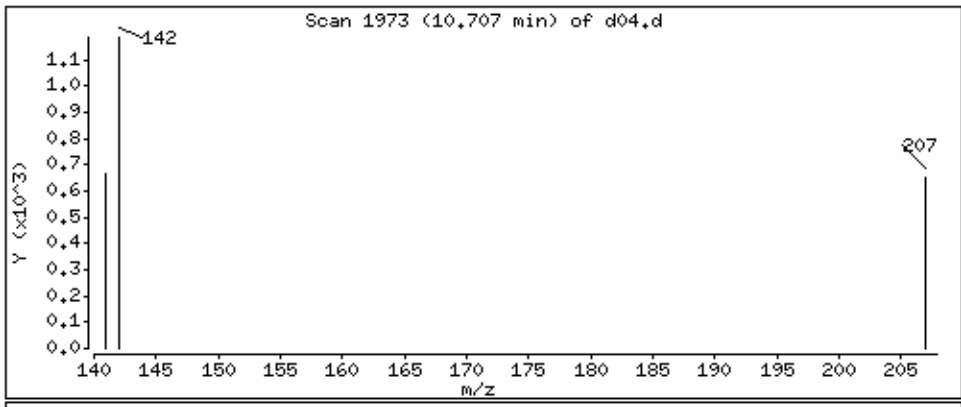
Operator: grm

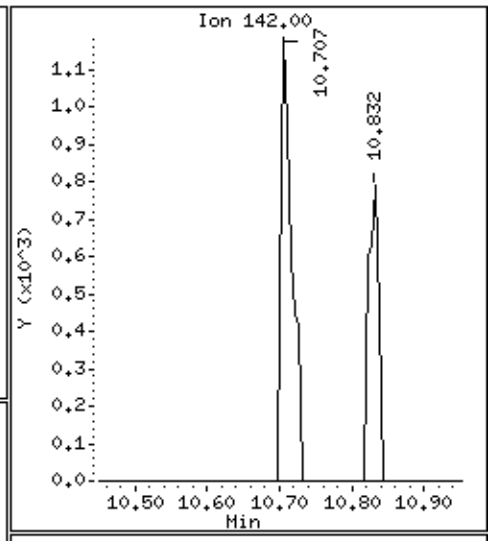
Column phase: DB-624

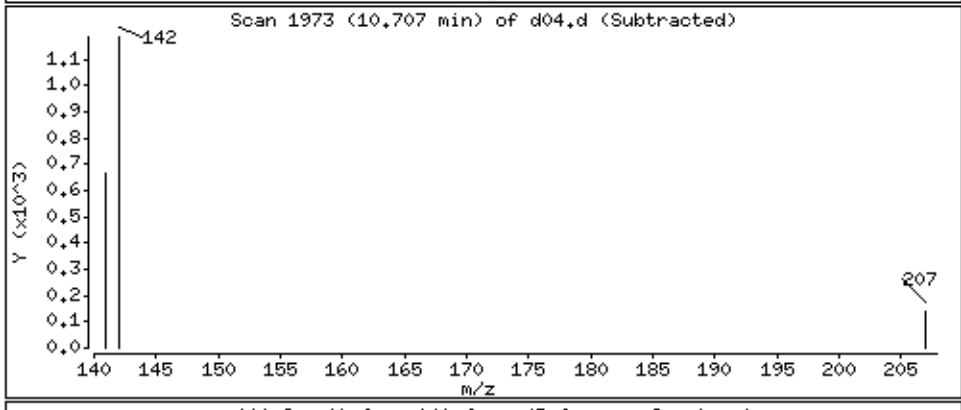
Column diameter: 0.18

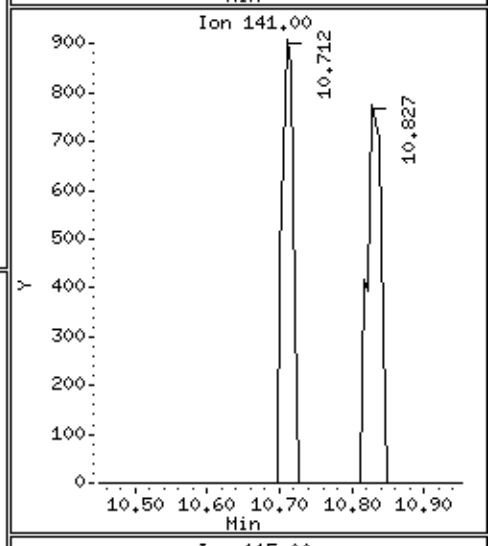
100 2,methyl-naphthalene

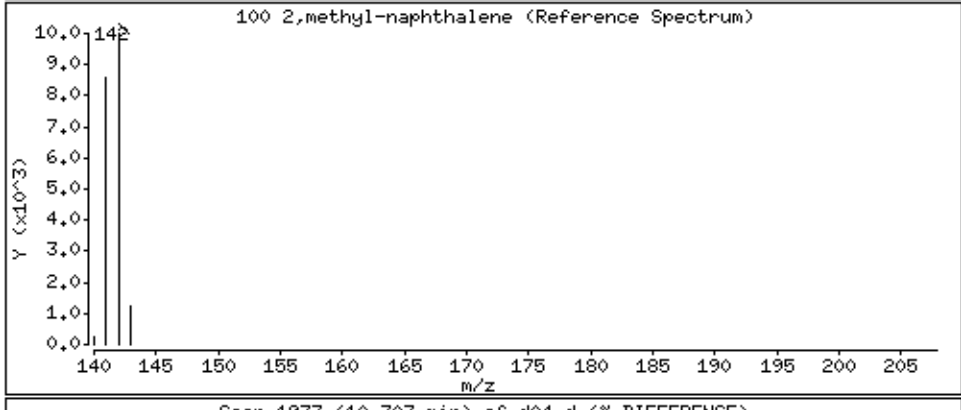
Concentration: 0.327 ppb

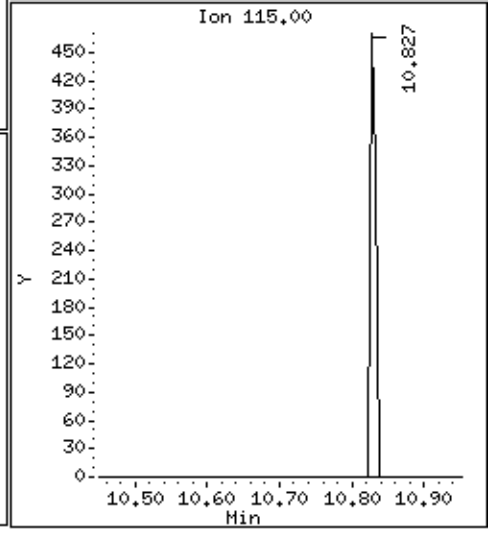


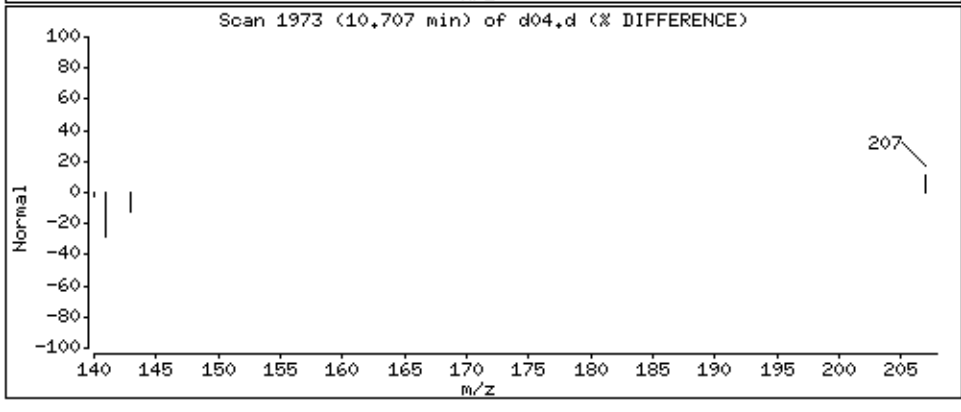












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d04.d
Injection Date: 18-MAR-2016 02:20
Instrument: 50mv1b.i
Lab Sample ID: 50140212001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0101-S1U(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/21/2016 01:18 Lab Sample ID: 50140212002

Date Analyzed: 03/21/2016 01:18 Lab File ID: A032016.B\A20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV1A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	6560	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d
Lab Smp Id: 50140212002 Client Smp ID: MW-0101-S1U(030916)
Inj Date : 21-MAR-2016 01:18
Operator : grm Inst ID: 50mv1a.i
Smp Info : 50140212002x50
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1a.i\a032016.b\a8260_a_c.m
Meth Date : 21-Mar-2016 11:05 50mv1a.i Quant Type: ISTD
Cal Date : 15-MAR-2016 21:49 Cal File: a08cal.d
Als bottle: 21
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	0.995	0.993	(0.236)	3960	1.24206	62.1	
	3 Vinyl Chloride	62	1.042	1.046	(0.247)	3443	1.24755	62.4(Q)	
	4 Bromomethane	94	1.199	1.187	(0.284)	1033	1.25750	62.9(Q)	
	18 Methylene Chloride	84	1.890	1.888	(0.448)	584	0.33651	16.8	
	19 tert-Butyl Alcohol	59	1.926	1.924	(0.457)	253	1.64086	82.0(Q)	
	22 1,2-Dichloroethene (trans)	96	2.062	2.060	(0.489)	2429	1.43391	71.7	
	23 n-Hexane	57	2.240	2.243	(0.531)	2835	0.88326	44.2	
	29 1,2-Dichloroethene (cis)	96	2.852	2.850	(0.676)	39288	21.0565	1050	
$	38 Dibromofluoromethane (S)	113	3.380	3.378	(0.802)	98710	51.9863	52.0	
*	46 Fluorobenzene (IS)	96	4.217	4.215	(1.000)	377471	50.0000		
	47 Trichloroethene	95	4.667	4.665	(1.107)	247311	131.183	6560	
$	57 Toluene-d8	98	6.068	6.067	(0.821)	372988	49.0157	49.0	
	58 Toluene	91	6.142	6.140	(0.831)	4527	0.53787	26.9	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.390	(1.000)	290656	50.0000		
$	76 4-Bromofluorobenzene	95	8.208	8.206	(1.110)	133112	49.7063	49.7	
	89 1,3-Dichlorobenzene	146	8.846	8.839	(0.996)	261	0.05831	2.92(Q)	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.886	(1.000)	147396	50.0000		
	92 1,4-Dichlorobenzene	146	8.898	8.896	(1.002)	458	0.09926	4.96(Q)	
	100 2,methyl-naphthalene	142	10.702	10.695	(1.205)	1697	0.45334	22.7	

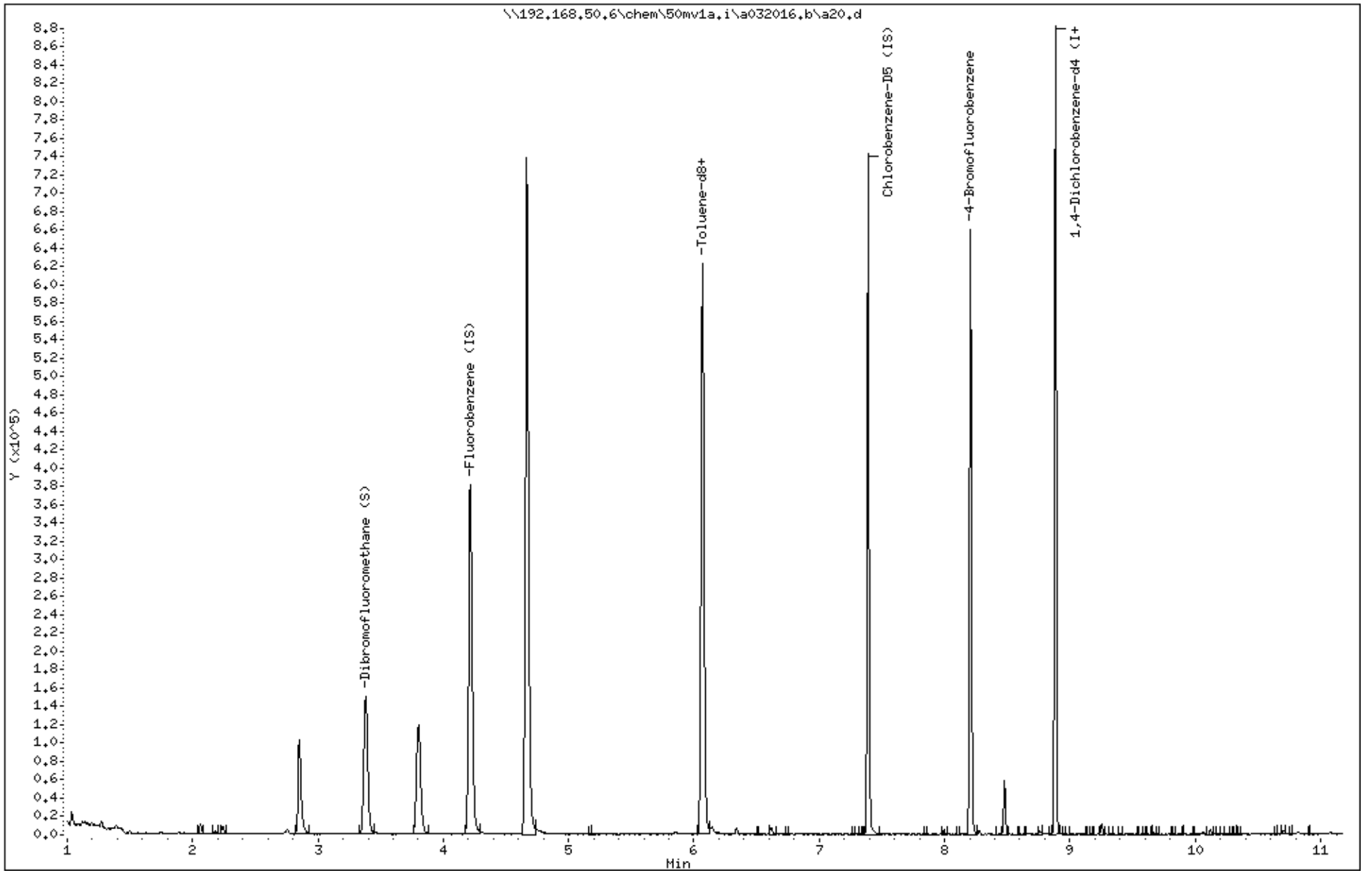
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d
Date : 21-MAR-2016 01:18
Client ID: MW-0101-S1U(030916)
Instrument: 50mv1a.i
Sample Info: 50140212002x50
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

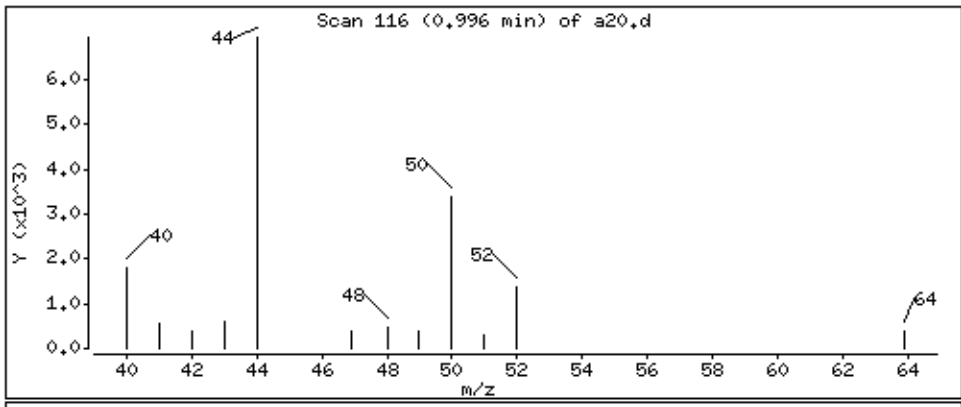
Operator: grm

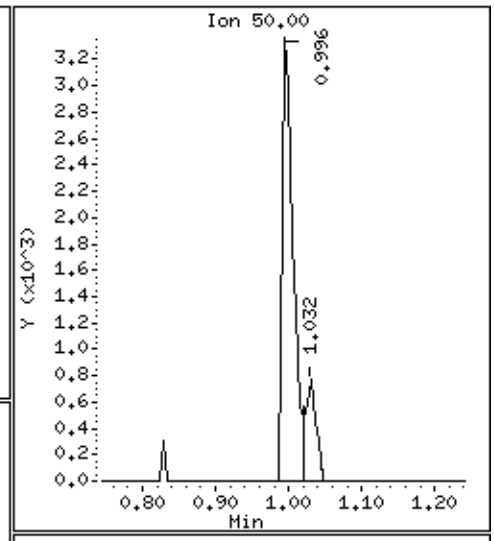
Column phase: DB-624

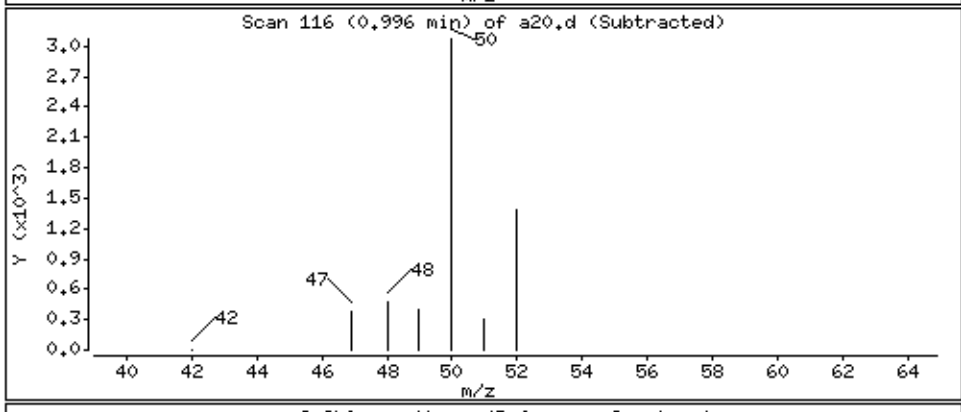
Column diameter: 0.18

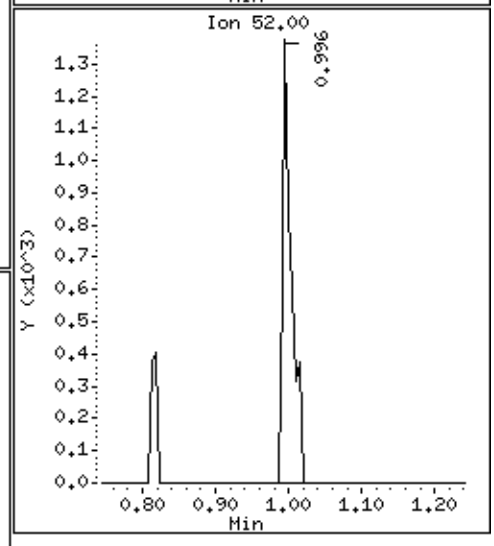
2 Chloromethane

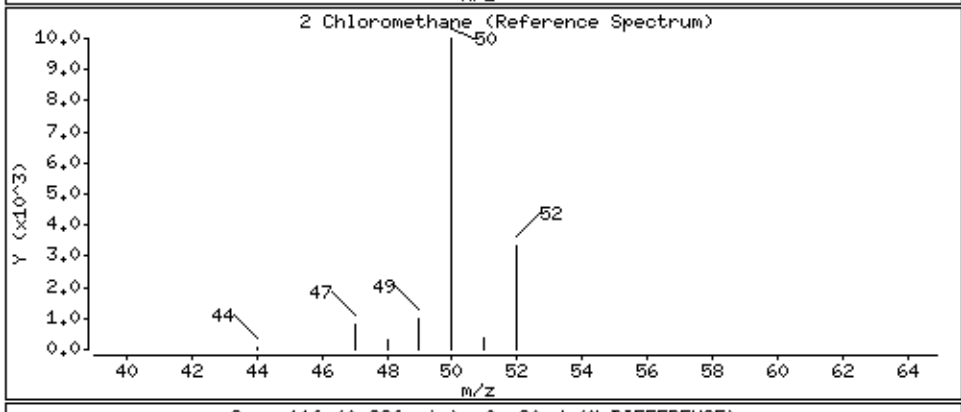
Concentration: 62.1 ppb

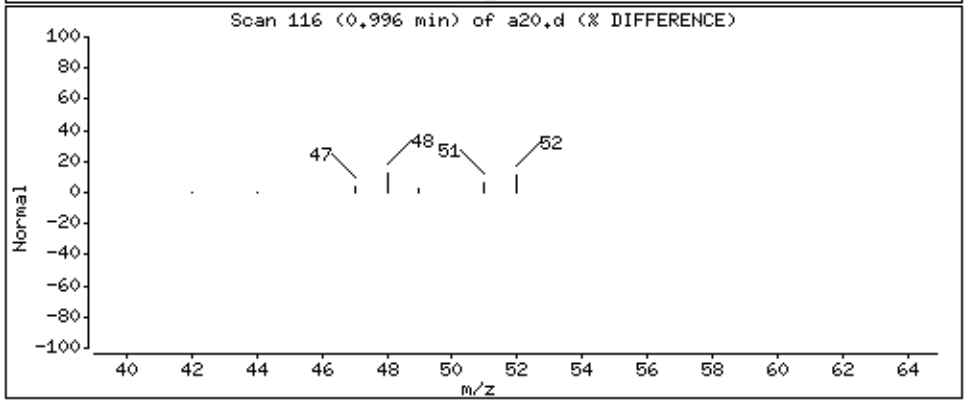












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

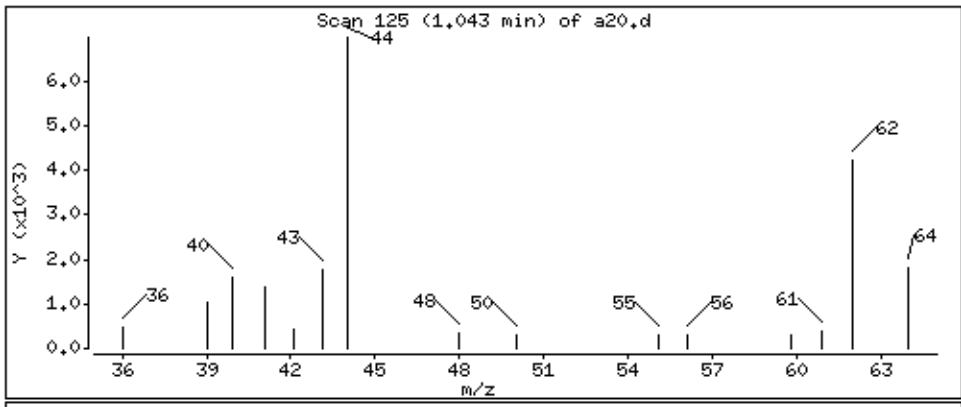
Operator: grm

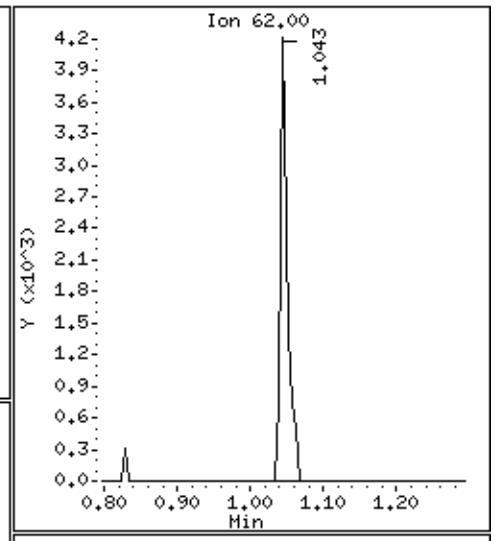
Column phase: DB-624

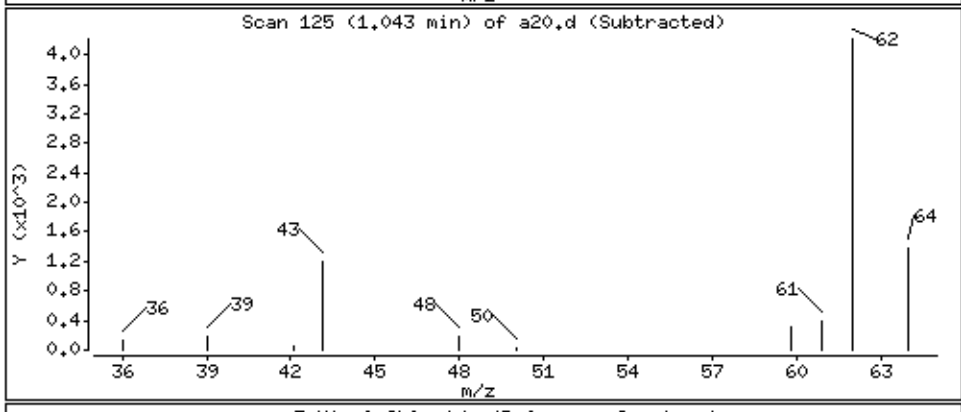
Column diameter: 0.18

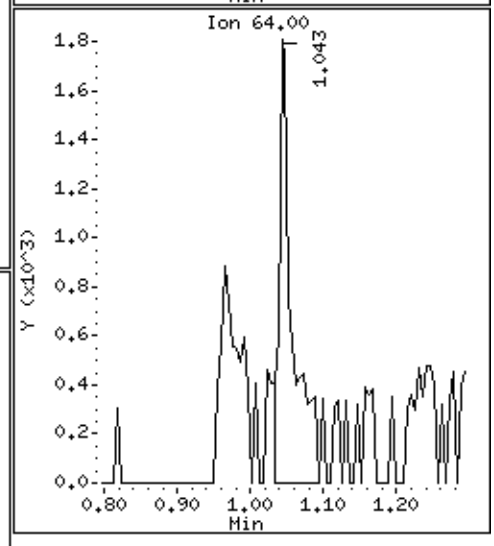
3 Vinyl Chloride

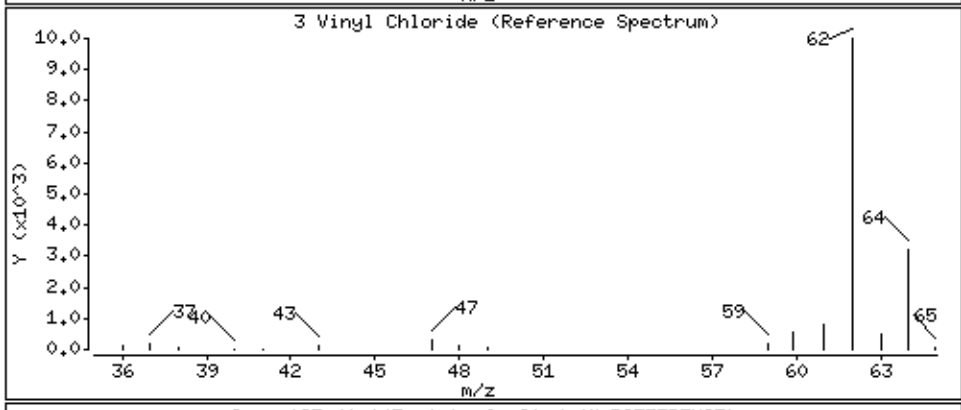
Concentration: 62.4 ppb

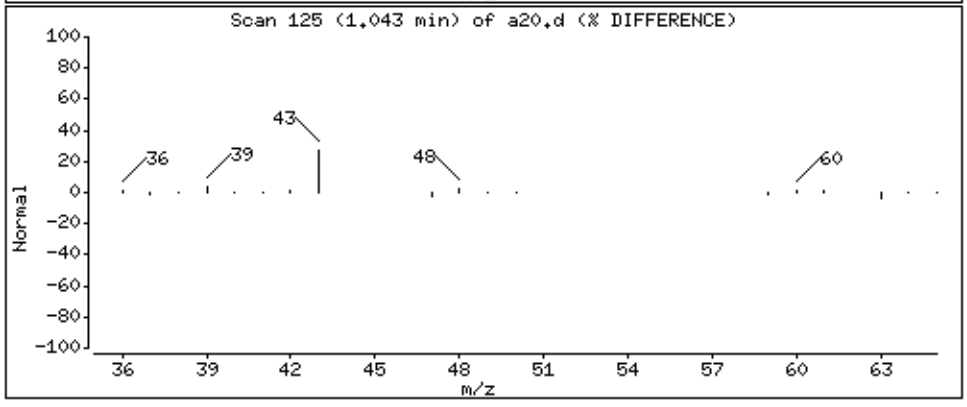












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

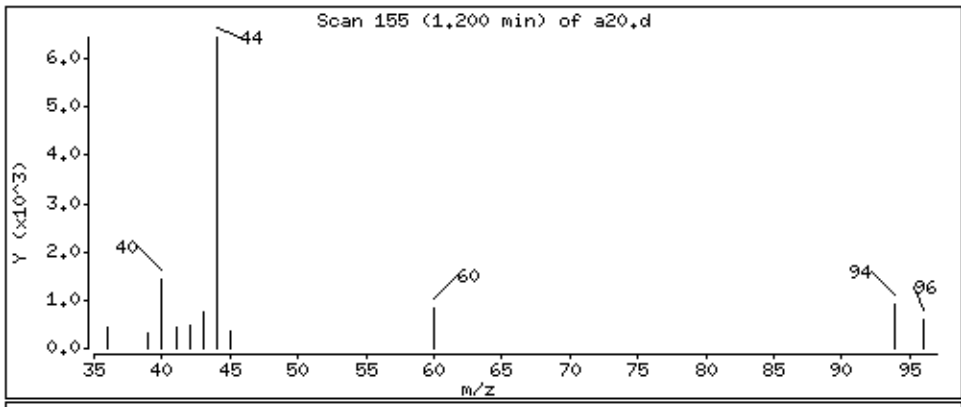
Operator: grm

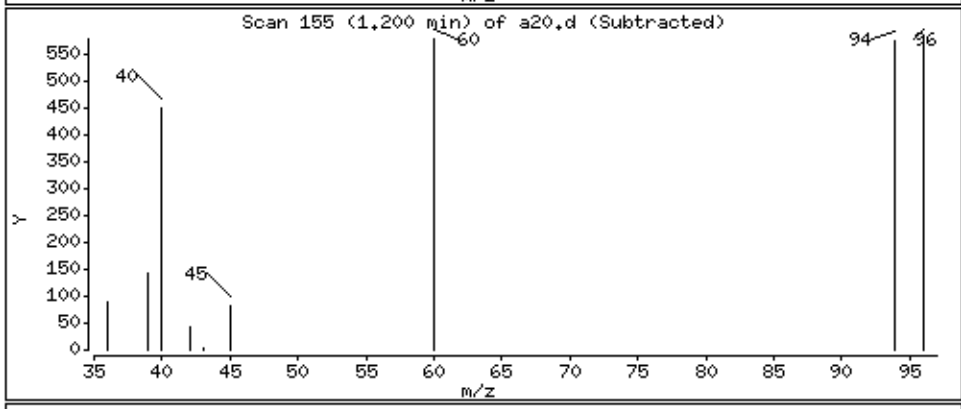
Column phase: DB-624

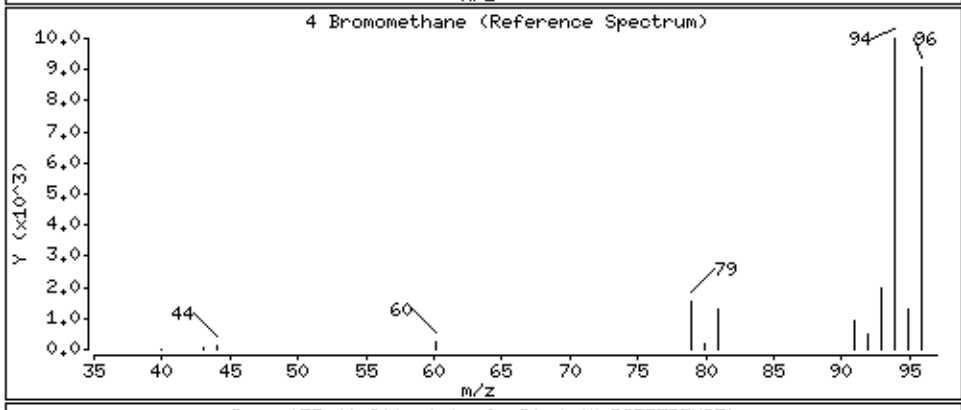
Column diameter: 0.18

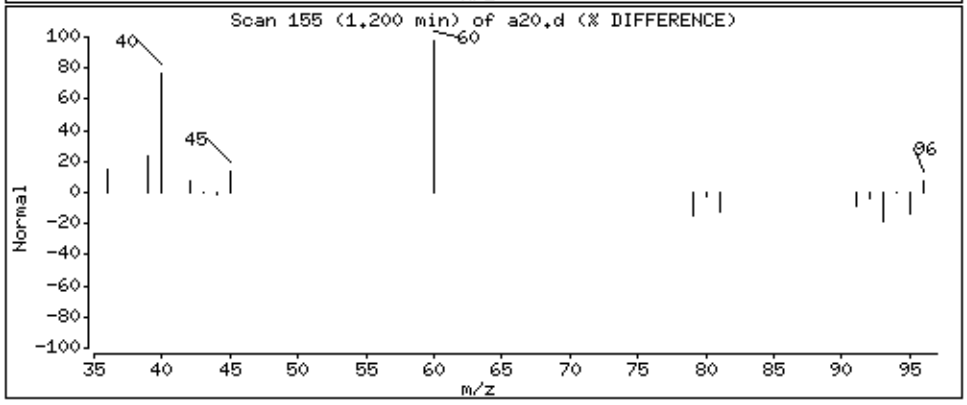
4 Bromomethane

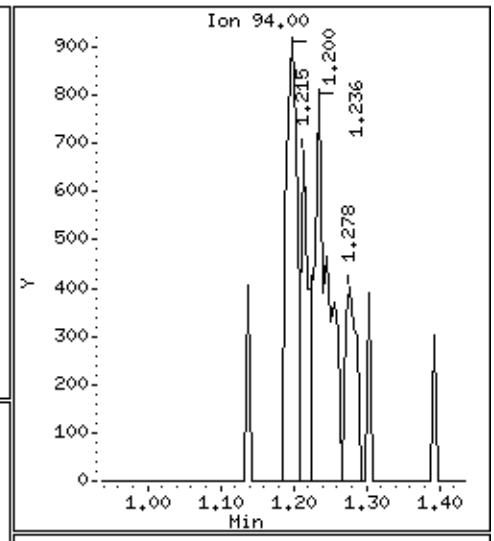
Concentration: 62.9 ppb

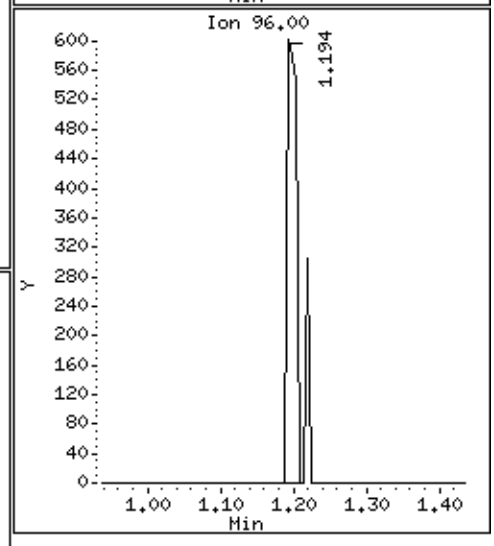












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

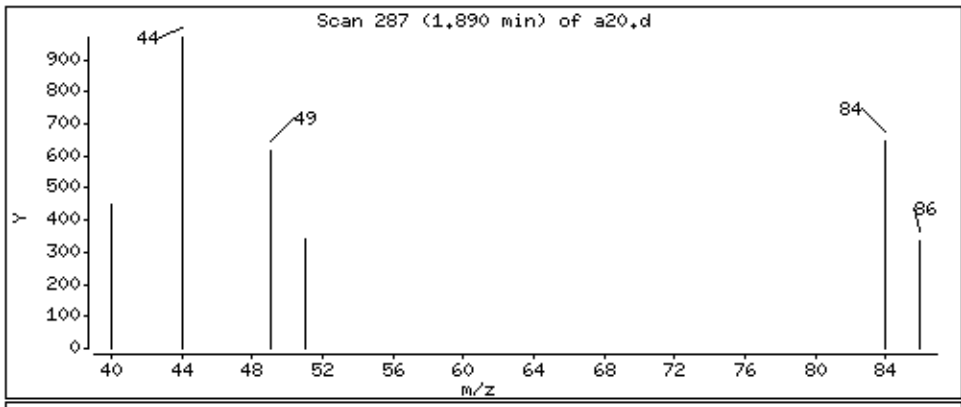
Operator: grm

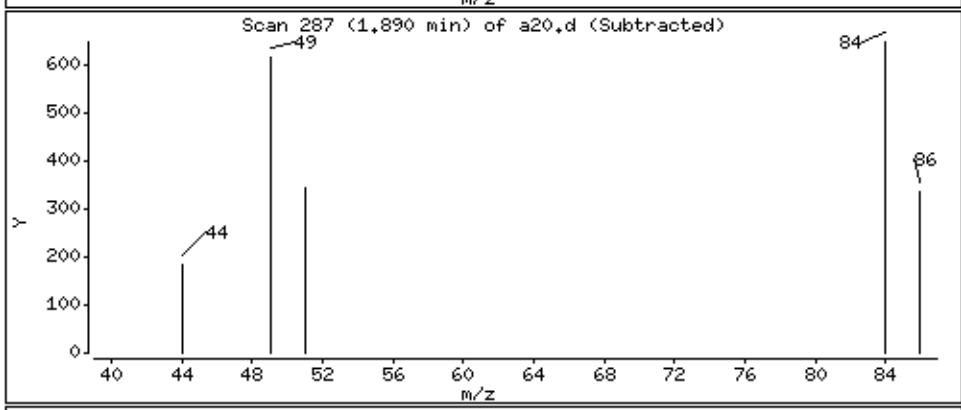
Column phase: DB-624

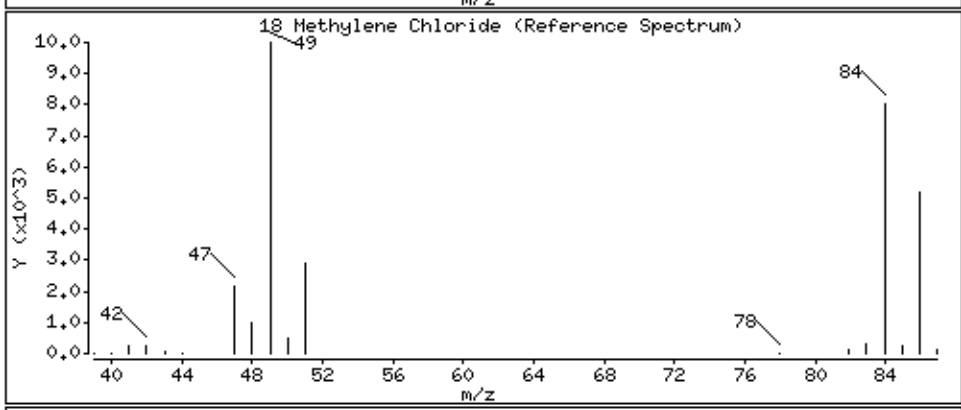
Column diameter: 0.18

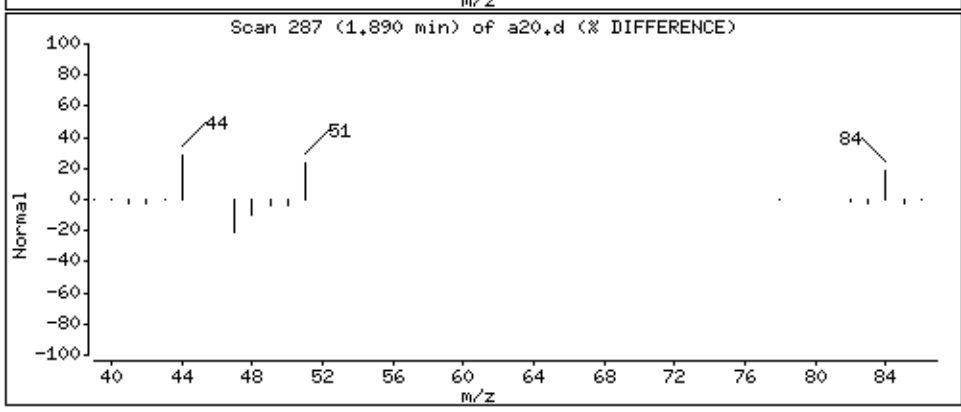
18 Methylene Chloride

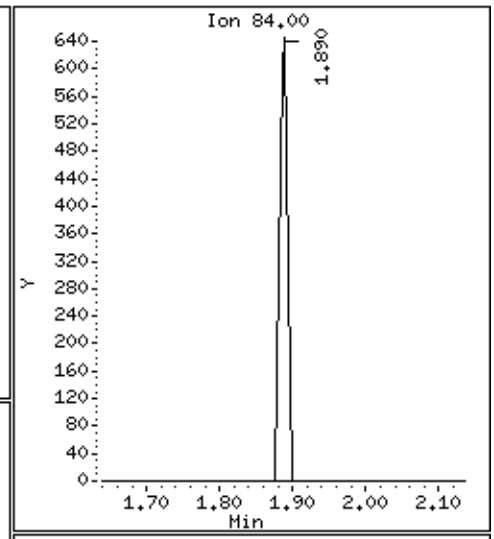
Concentration: 16.8 ppb

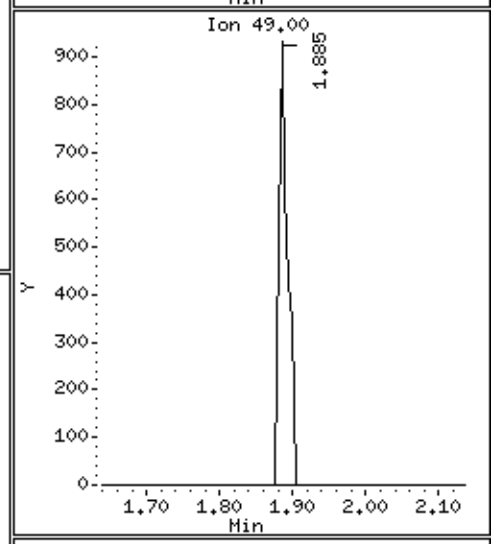


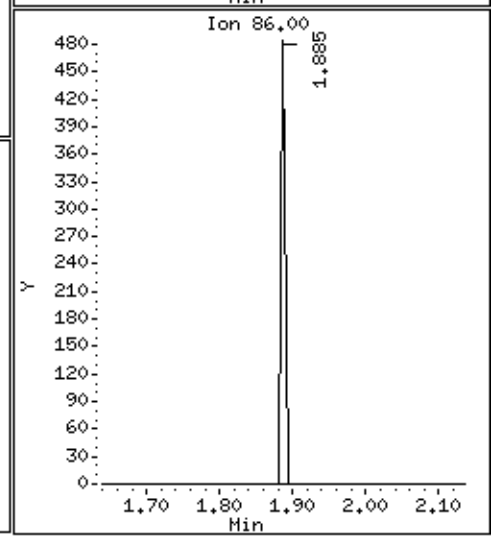












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

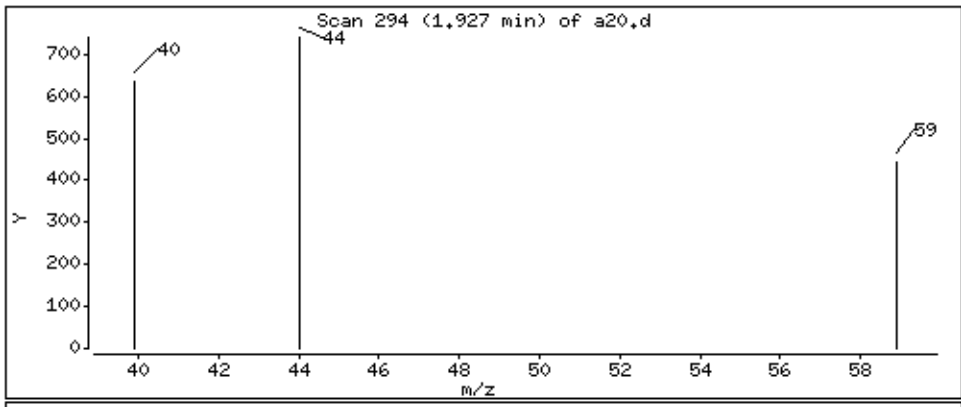
Operator: grm

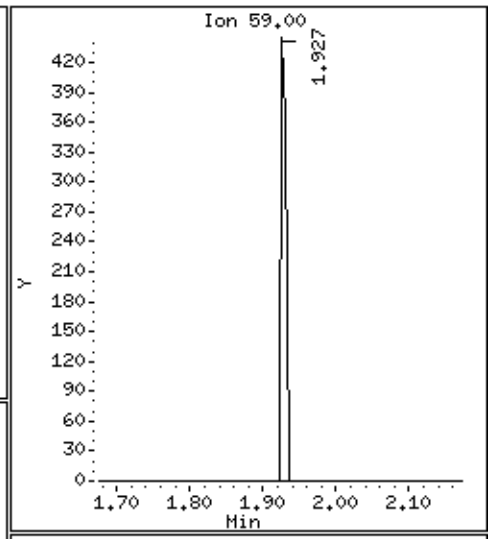
Column phase: DB-624

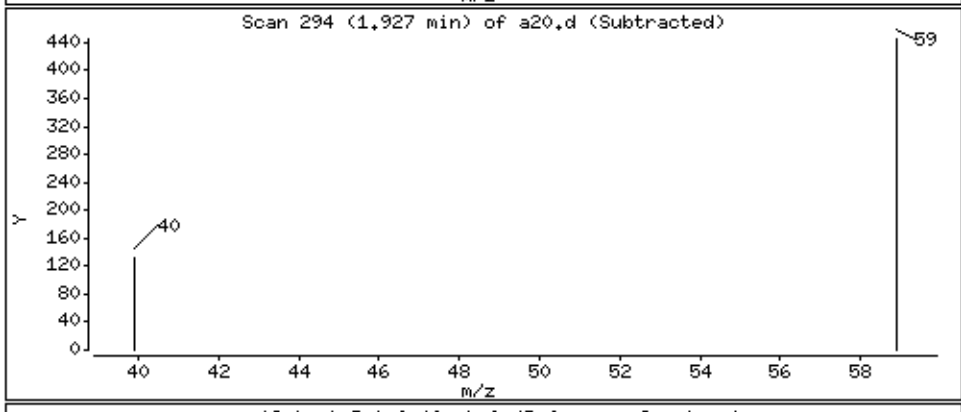
Column diameter: 0.18

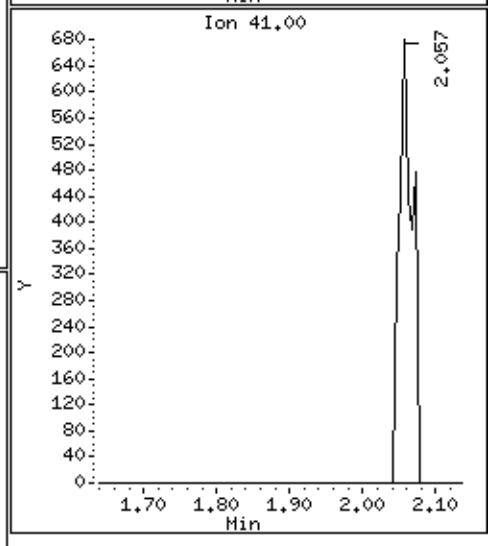
19 tert-Butyl Alcohol

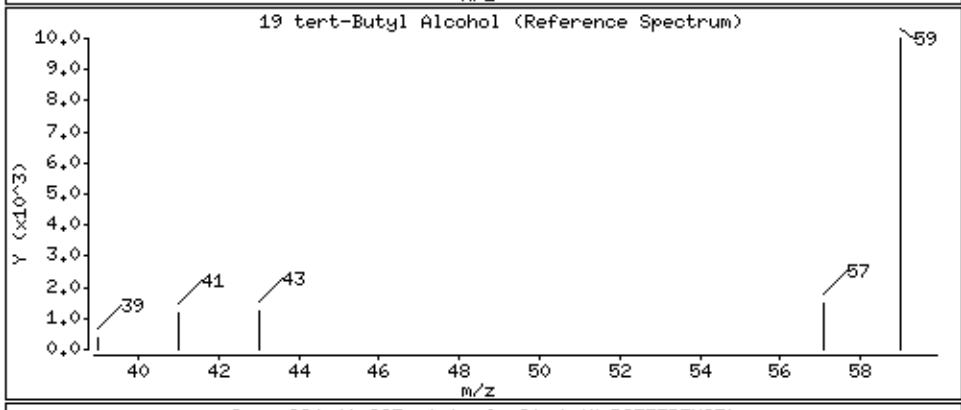
Concentration: 82.0 ppb

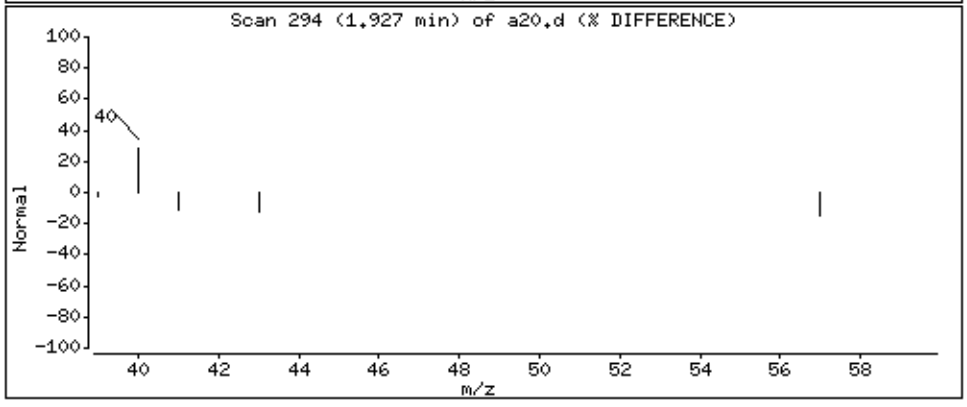












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

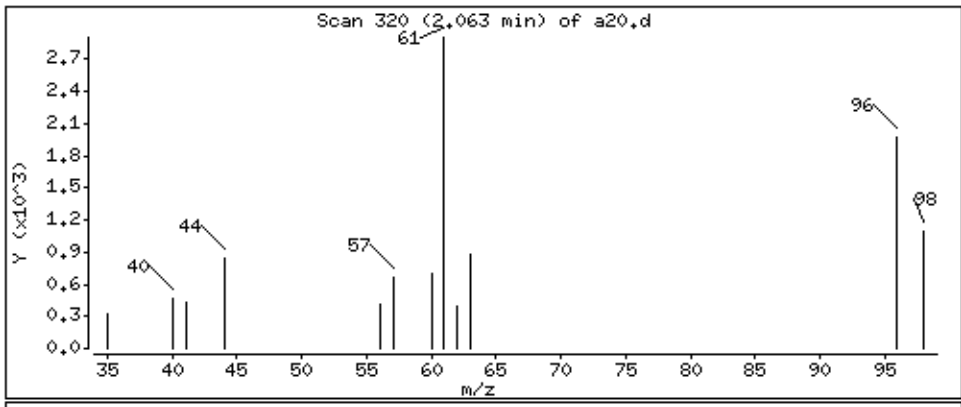
Operator: grm

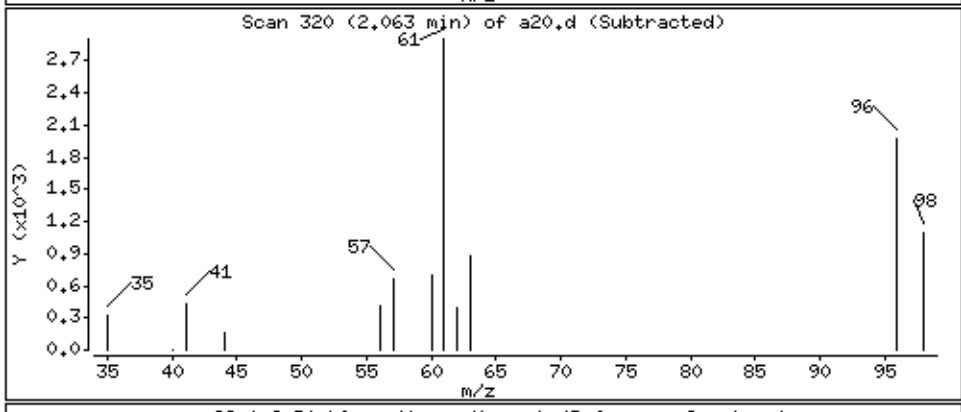
Column phase: DB-624

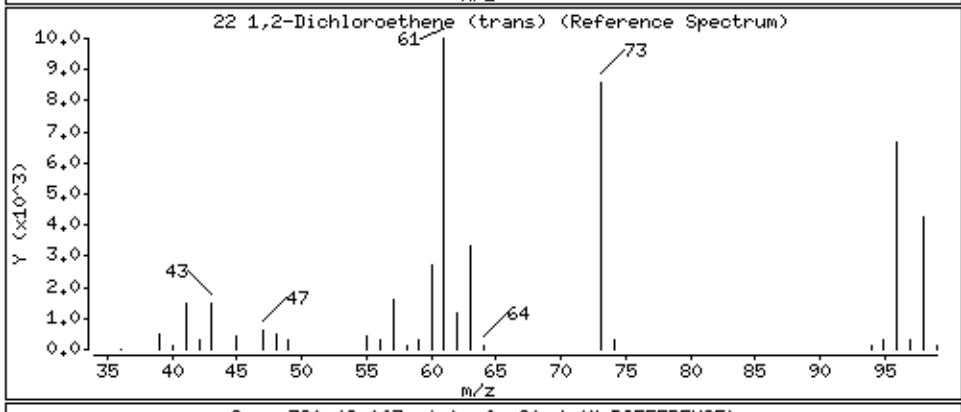
Column diameter: 0.18

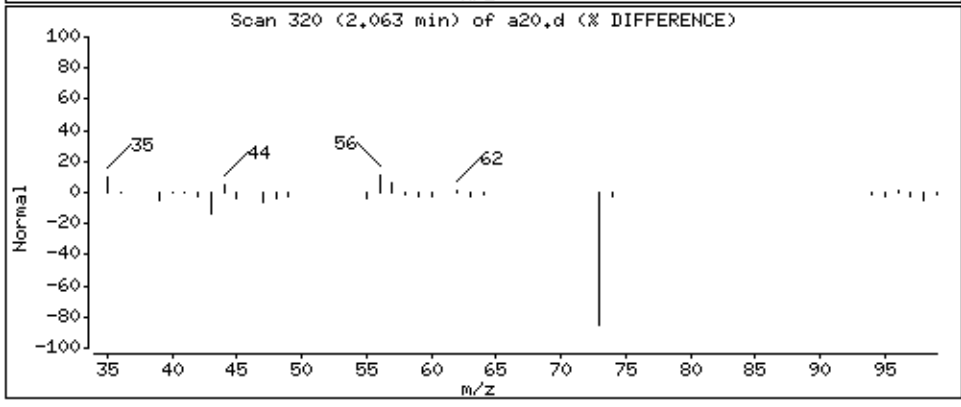
22 1,2-Dichloroethene (trans)

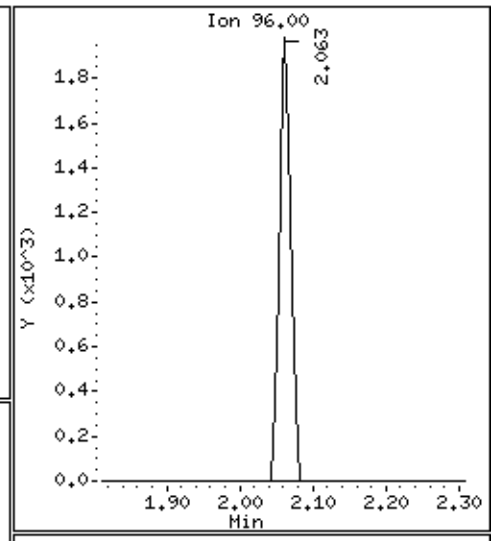
Concentration: 71.7 ppb

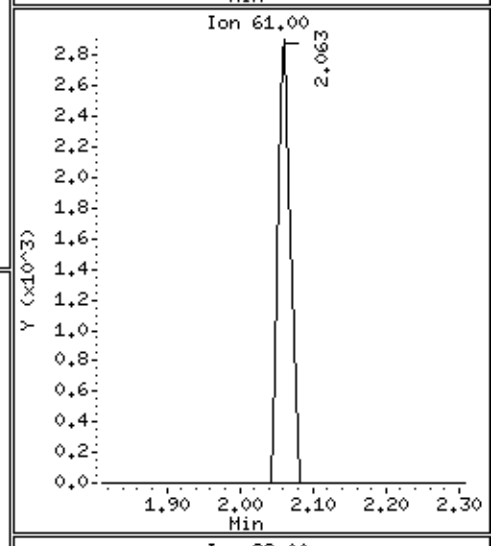


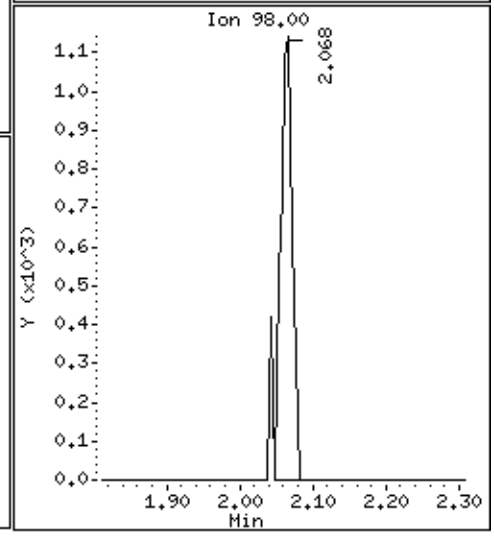












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

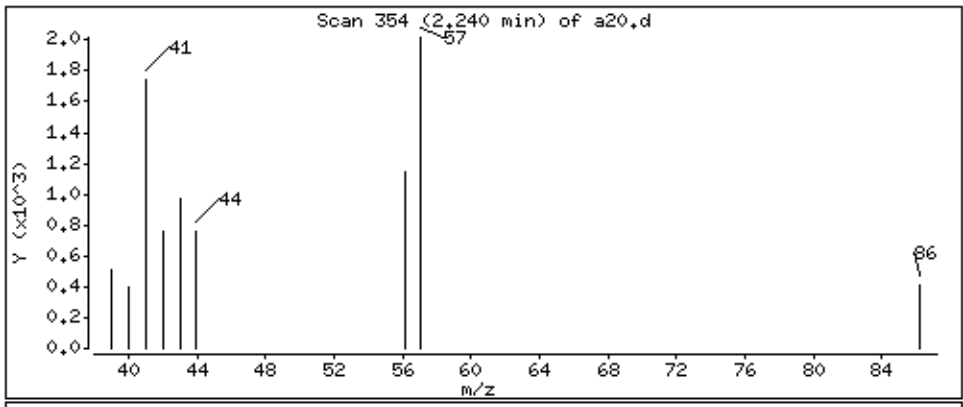
Operator: grm

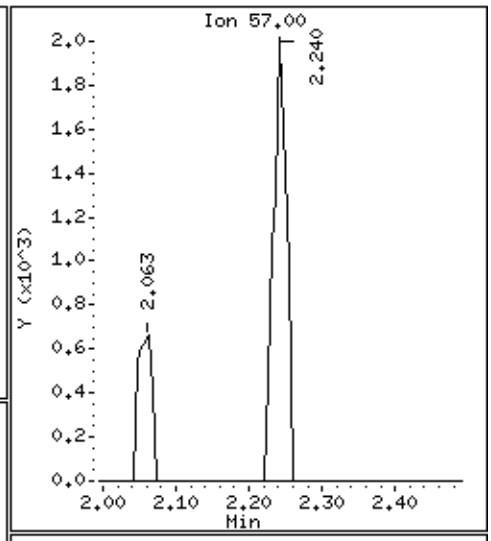
Column phase: DB-624

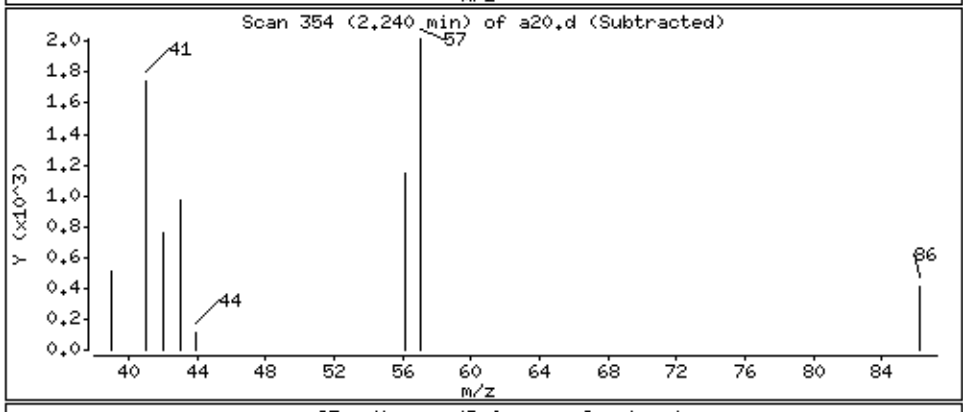
Column diameter: 0.18

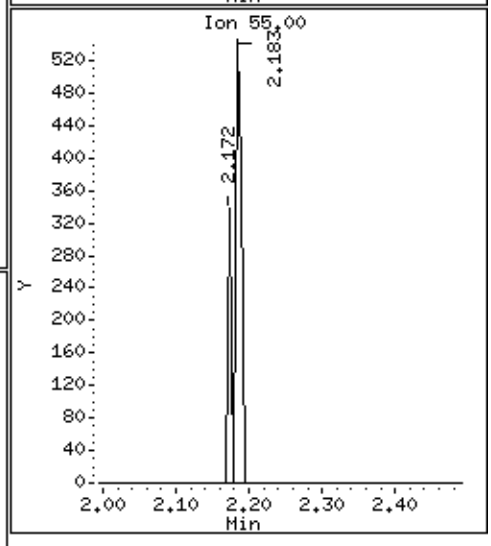
23 n-Hexane

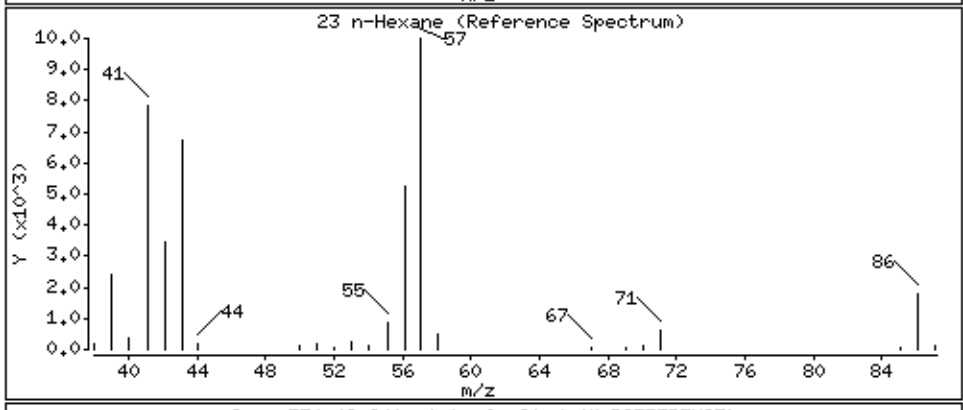
Concentration: 44.2 ppb

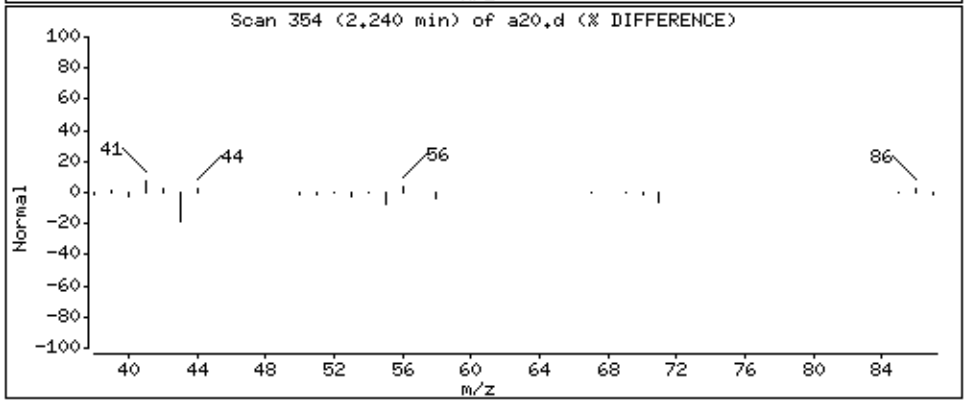












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

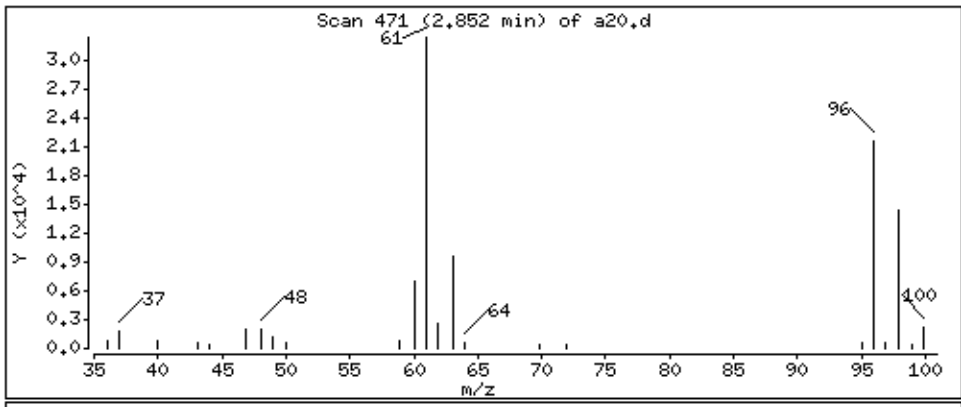
Operator: grm

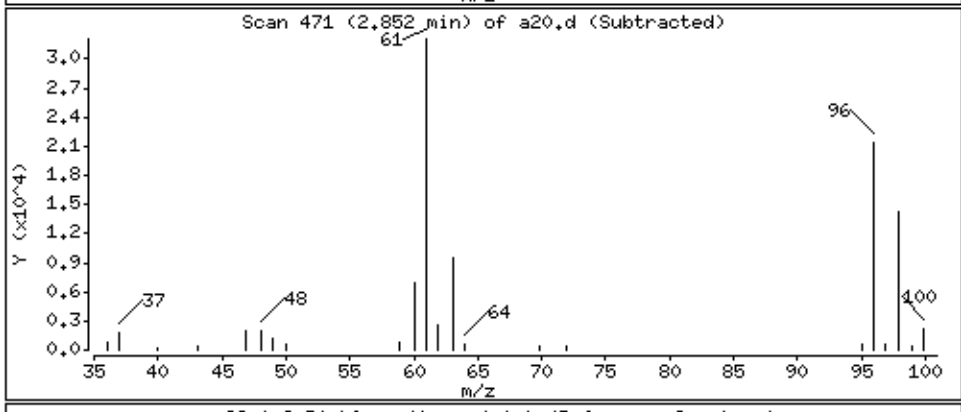
Column phase: DB-624

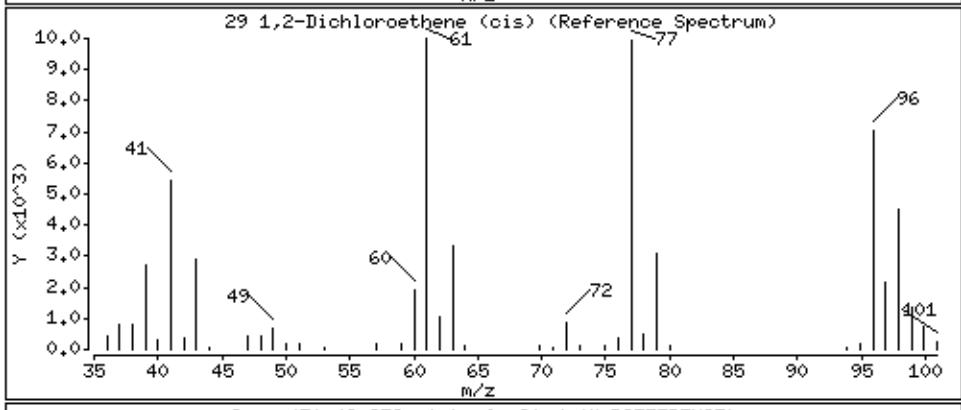
Column diameter: 0.18

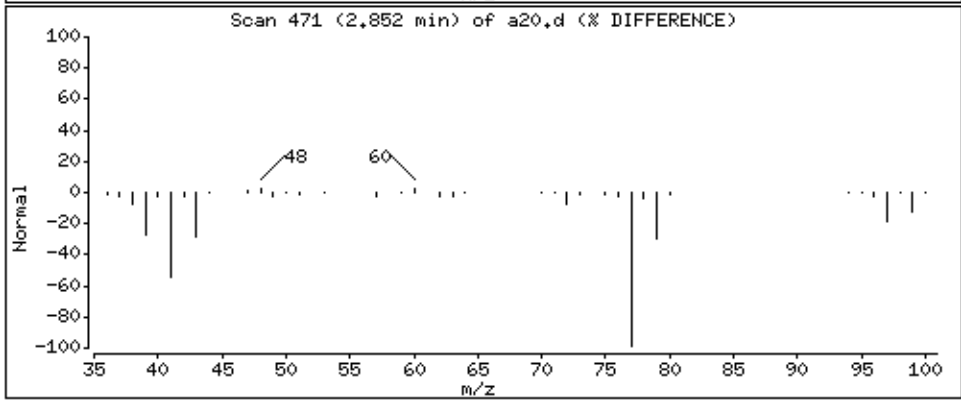
29 1,2-Dichloroethene (cis)

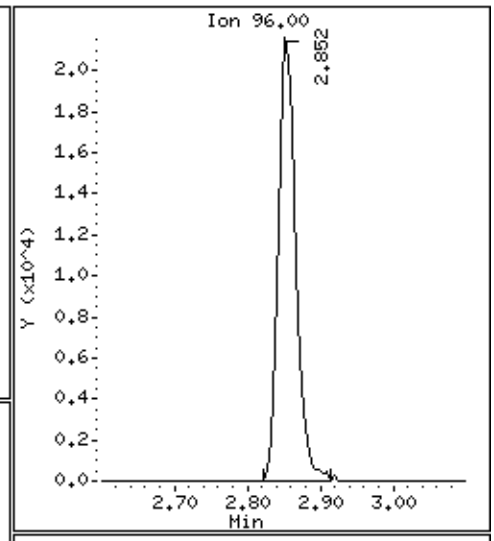
Concentration: 1050 ppb

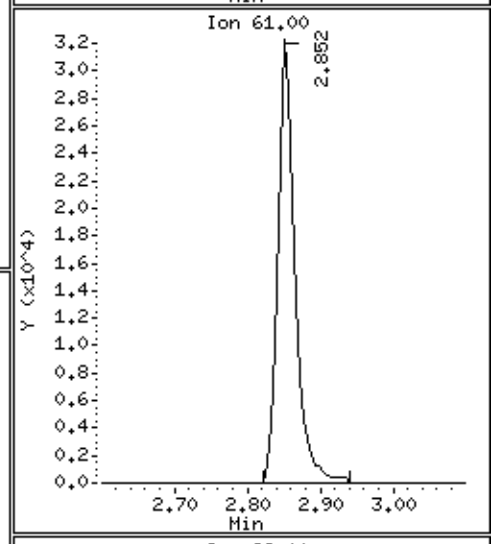


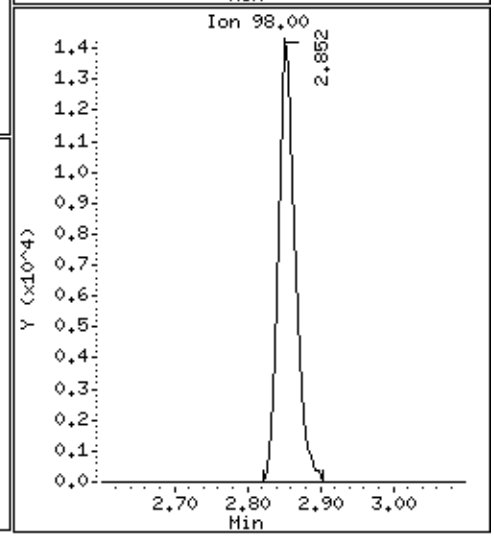












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

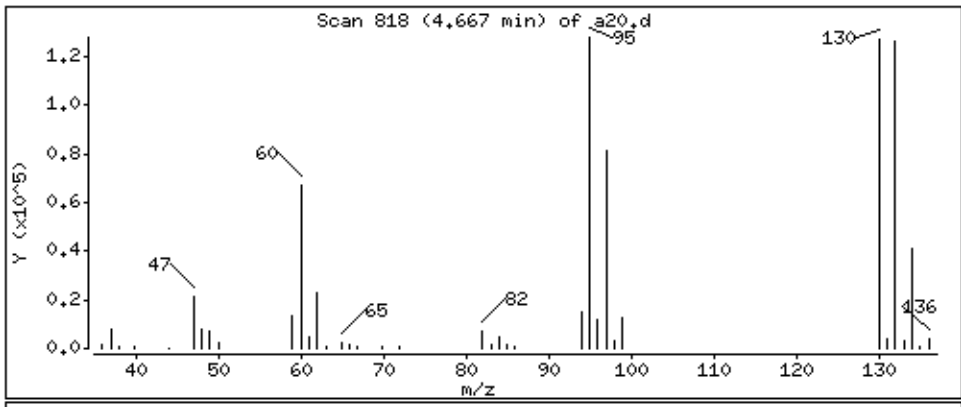
Operator: grm

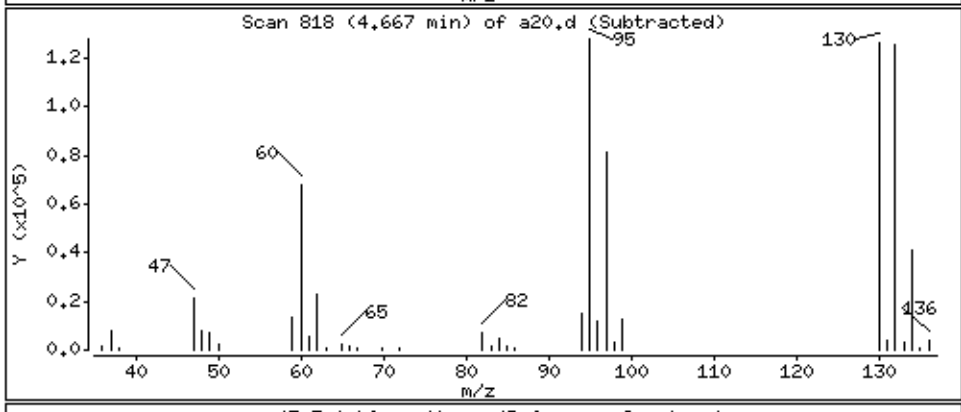
Column phase: DB-624

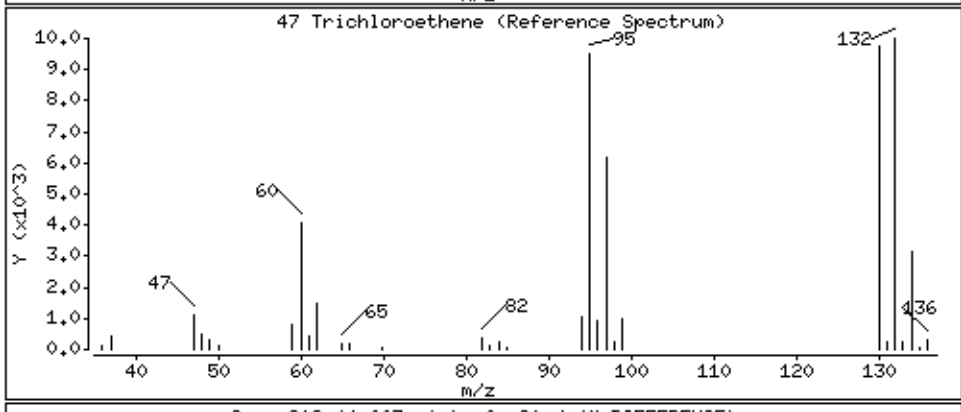
Column diameter: 0.18

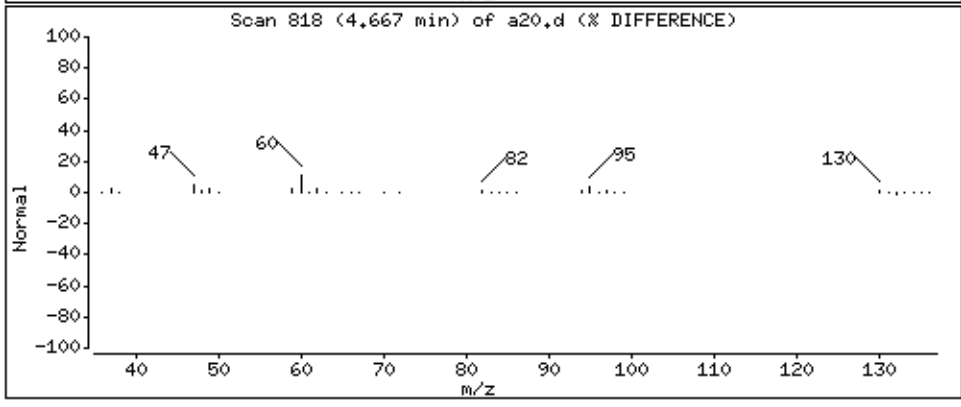
47 Trichloroethene

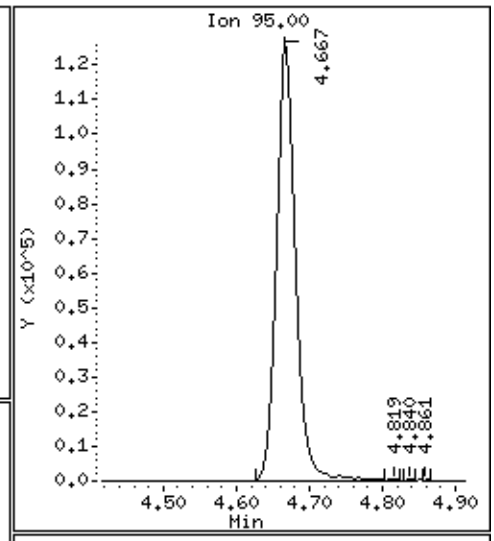
Concentration: 6560 ppb

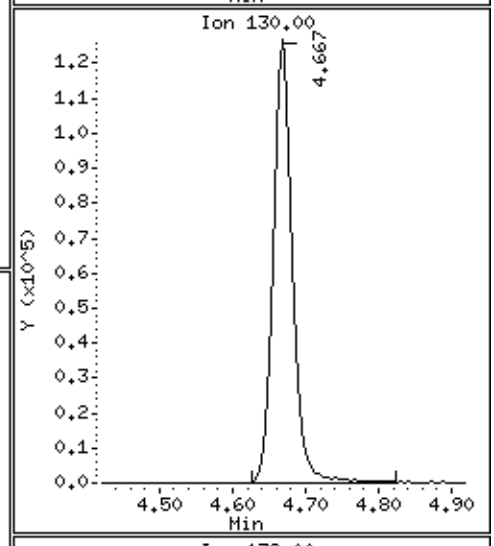


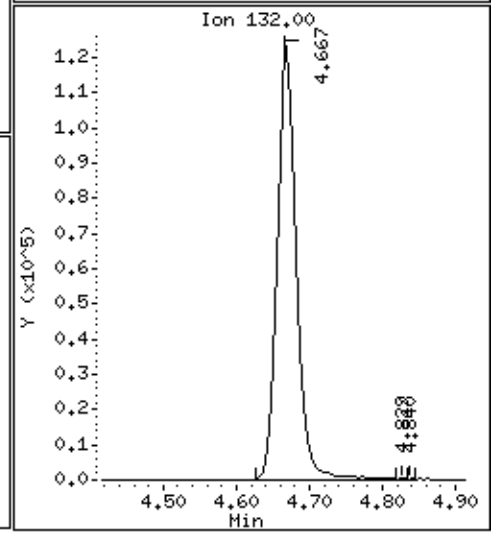












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

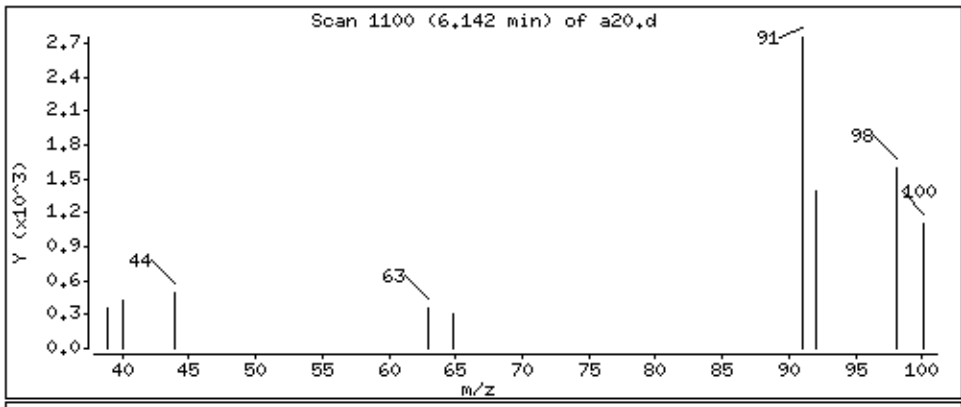
Operator: grm

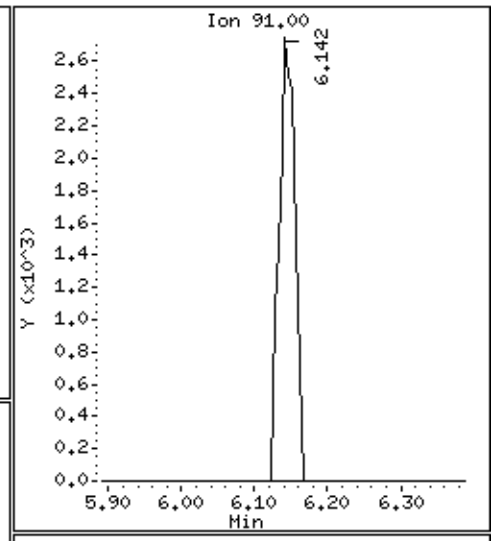
Column phase: DB-624

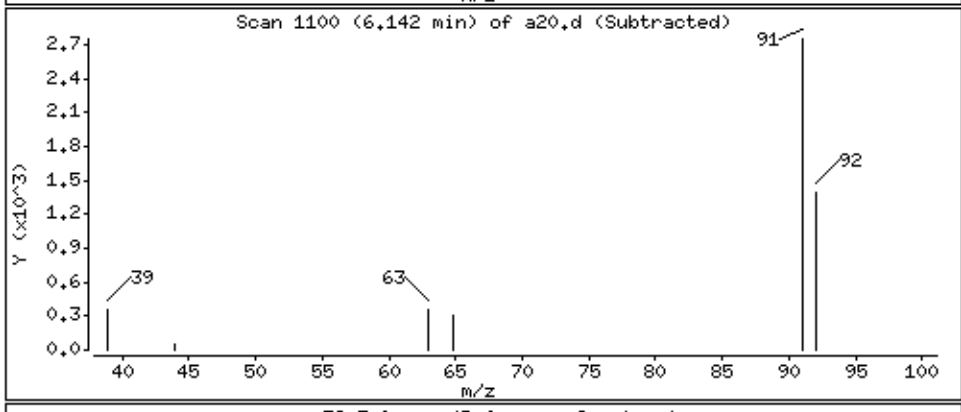
Column diameter: 0.18

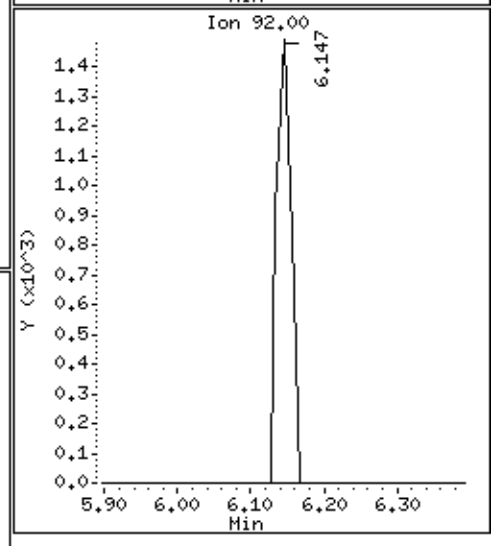
58 Toluene

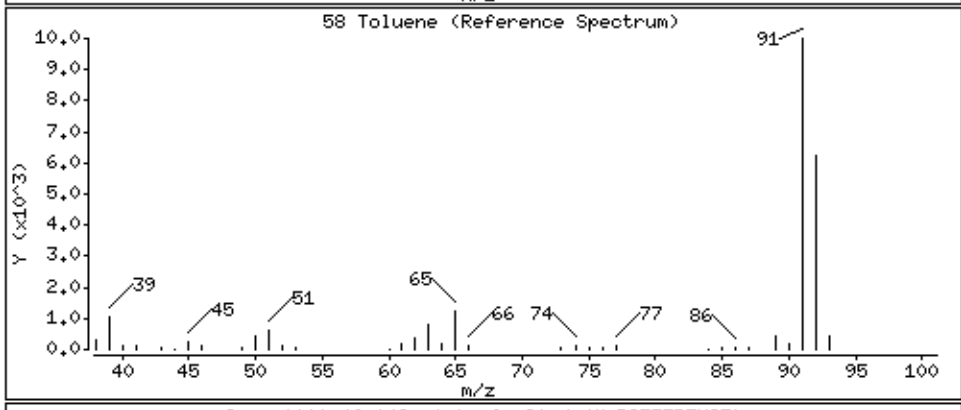
Concentration: 26.9 ppb

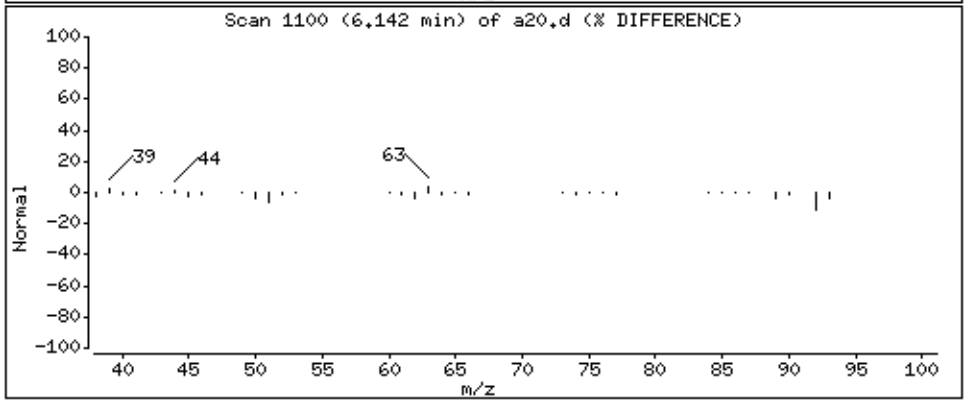












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

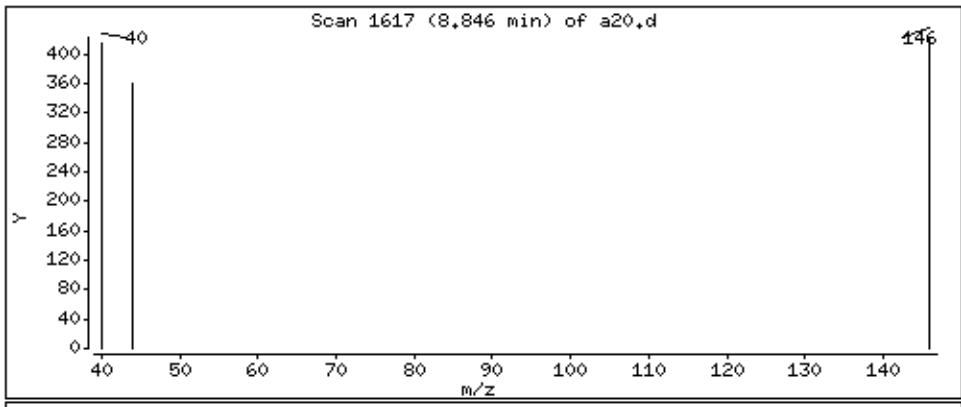
Operator: grm

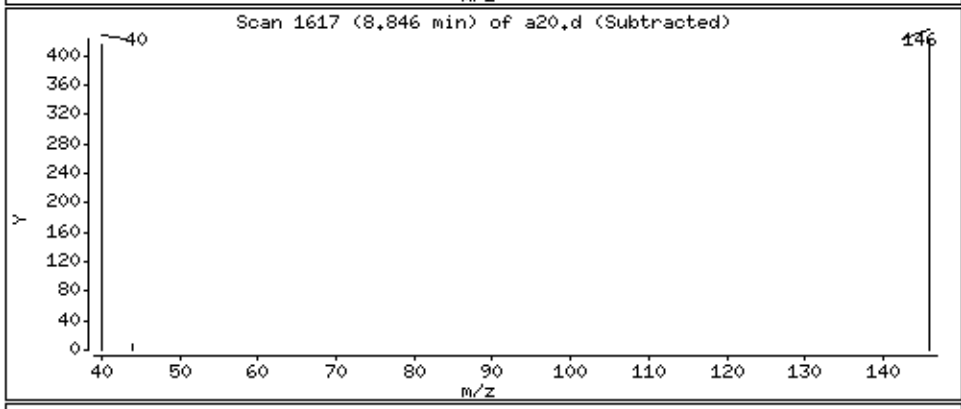
Column phase: DB-624

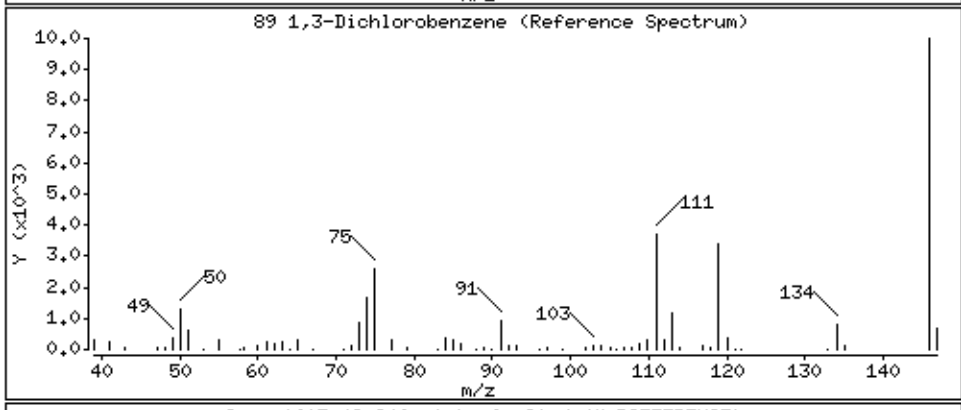
Column diameter: 0.18

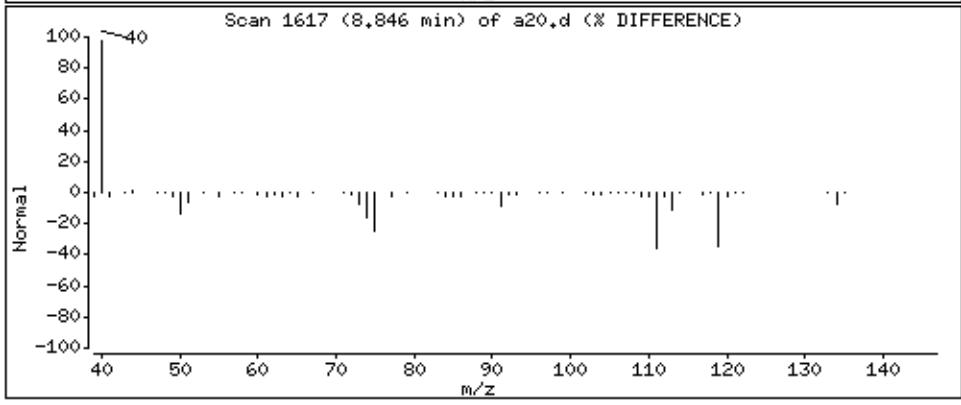
89 1,3-Dichlorobenzene

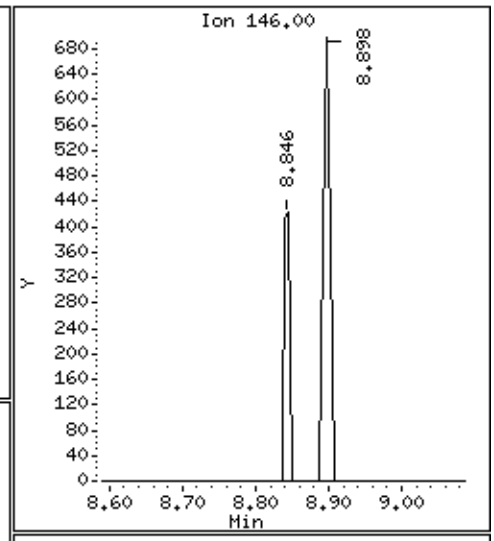
Concentration: 2.92 ppb

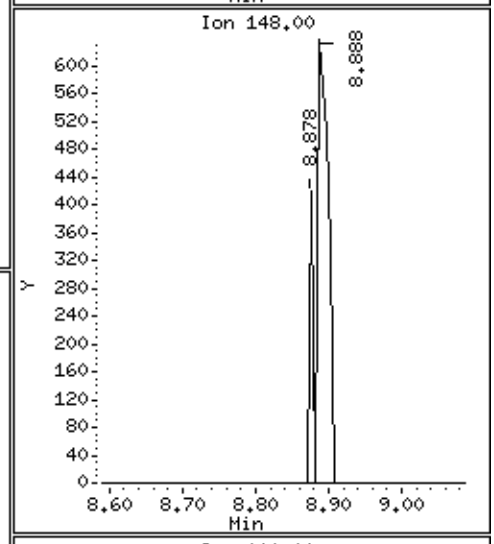


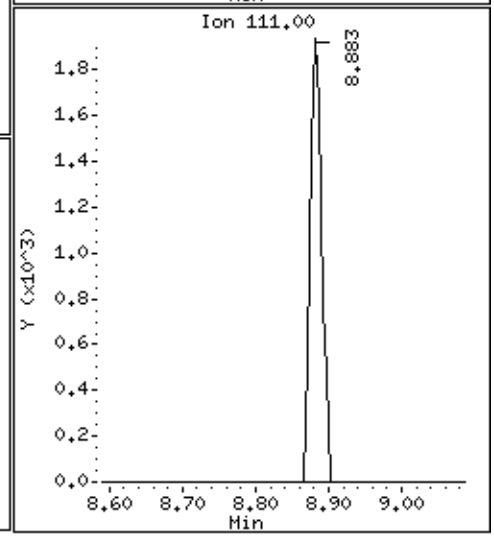












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

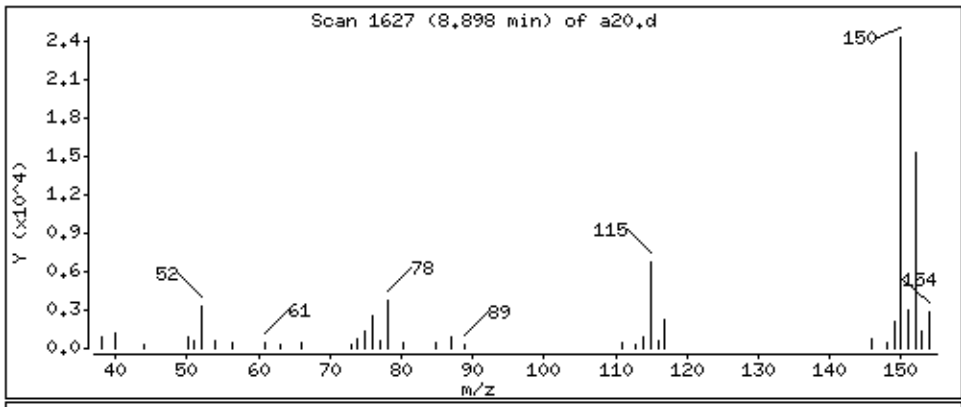
Operator: grm

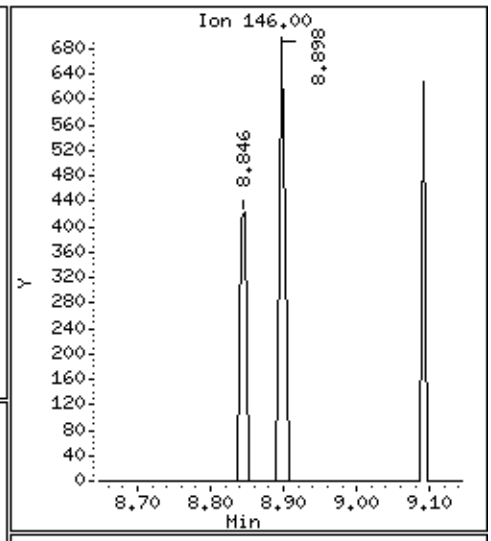
Column phase: DB-624

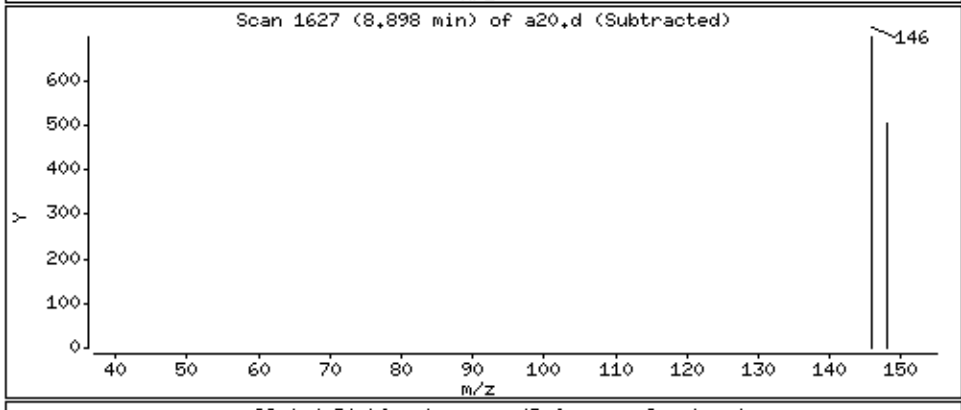
Column diameter: 0.18

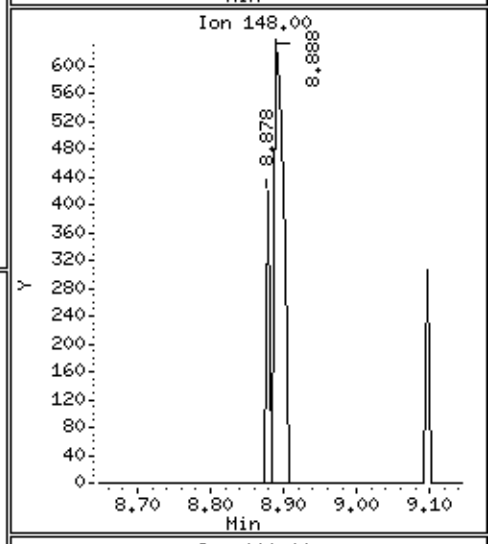
92 1,4-Dichlorobenzene

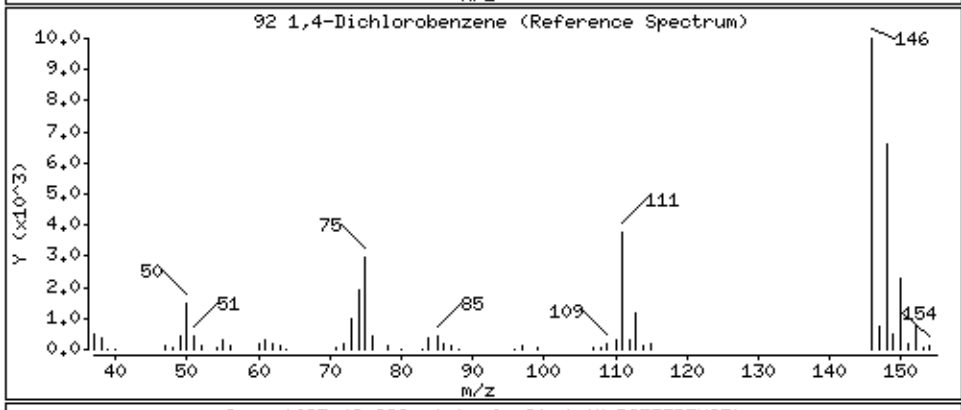
Concentration: 4.96 ppb

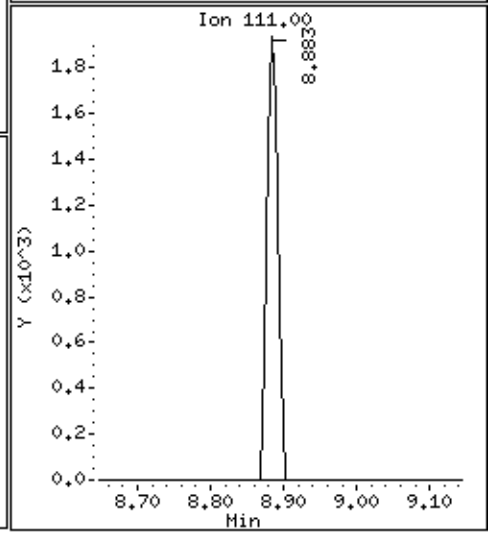


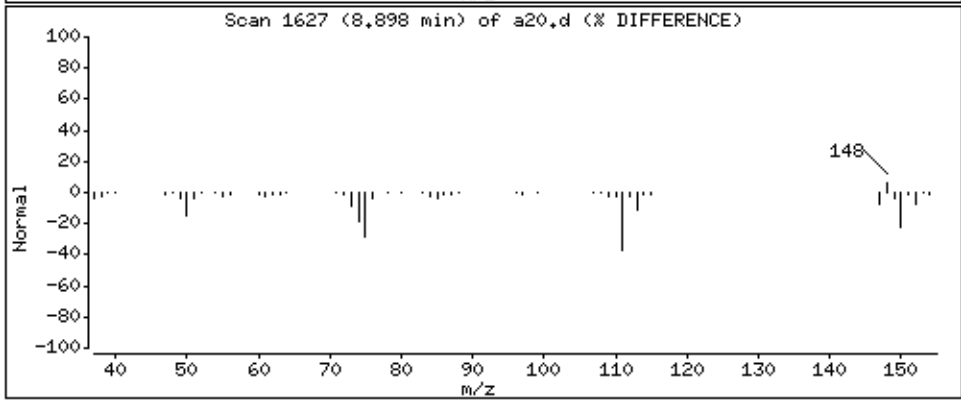












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a20.d

Date : 21-MAR-2016 01:18

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1a.i

Sample Info: 50140212002x50

Purge Volume: 5.0

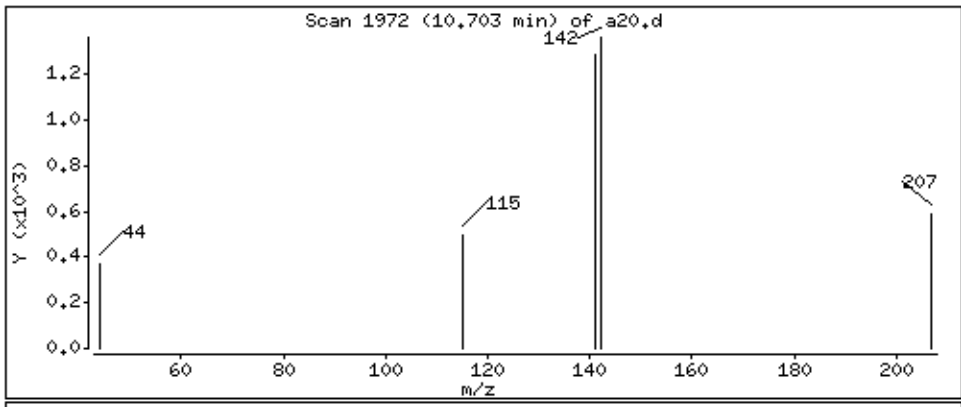
Operator: grm

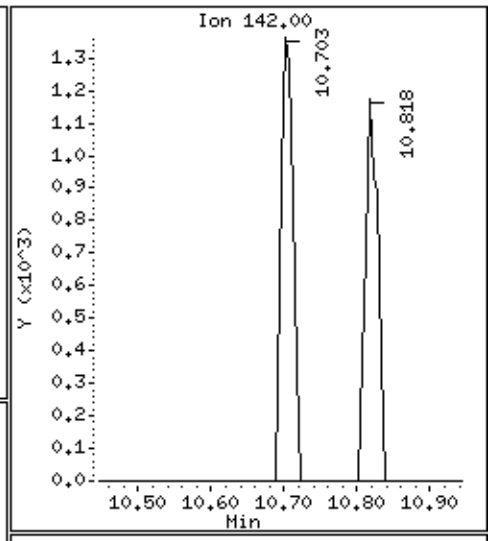
Column phase: DB-624

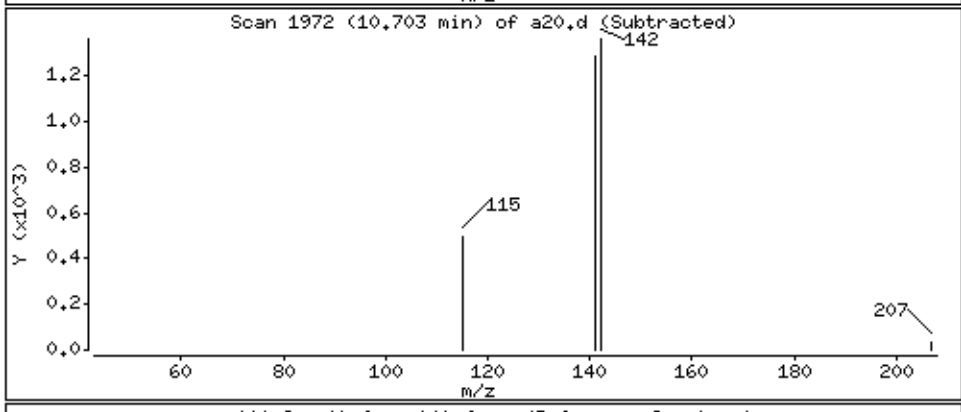
Column diameter: 0.18

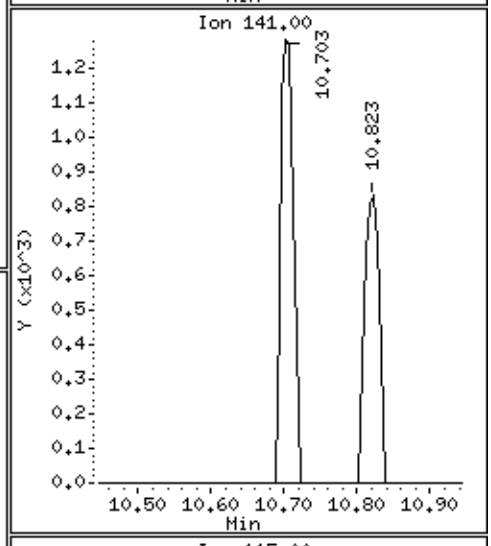
100 2,methyl-naphthalene

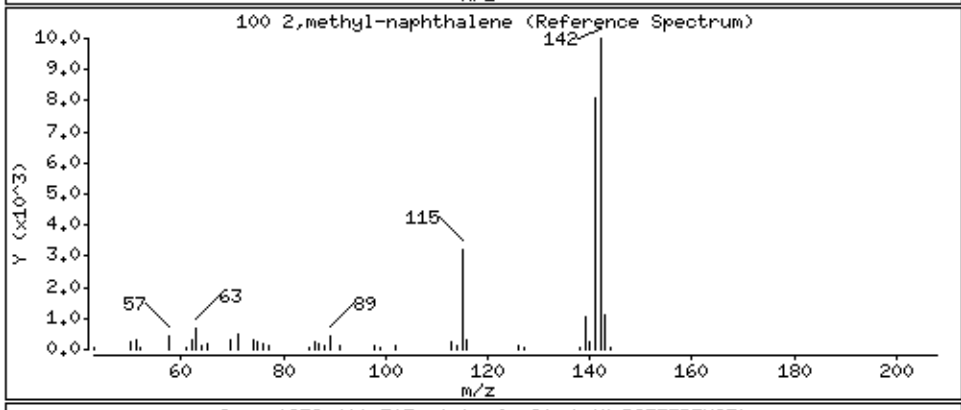
Concentration: 22.7 ppb

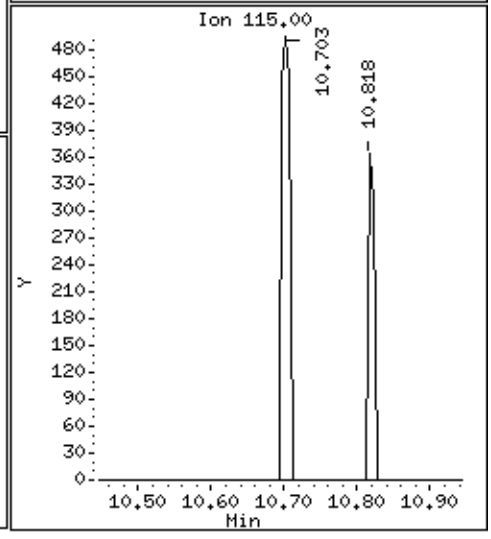


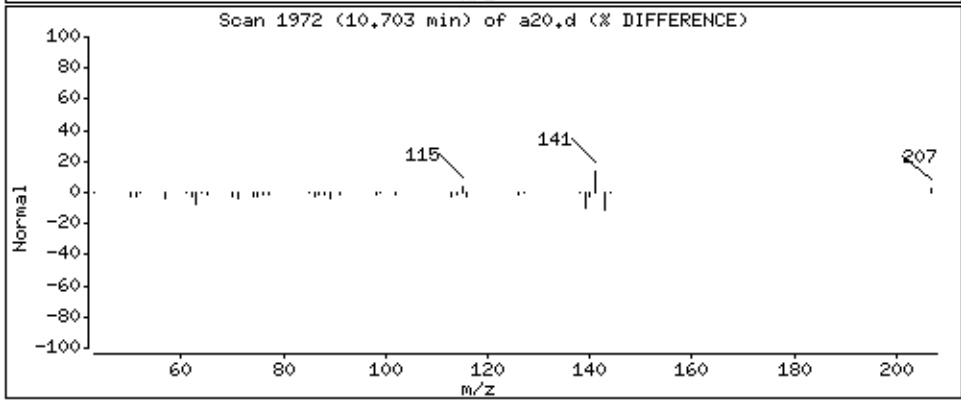












Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b/a20.d
Injection Date: 21-MAR-2016 01:18
Instrument: 50mv1a.i
Lab Sample ID: 50140212002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0101-S1U(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 02:55 Lab Sample ID: 50140212002

Date Analyzed: 03/18/2016 02:55 Lab File ID: B031716.B\D05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	1020	
156-60-5	trans-1,2-Dichloroethene	62.0	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0101-S1U(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 02:55 Lab Sample ID: 50140212002

Date Analyzed: 03/18/2016 02:55 Lab File ID: B031716.B\D05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	59.3	
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d
Lab Smp Id: 50140212002 Client Smp ID: MW-0101-S1U(030916)
Inj Date : 18-MAR-2016 02:55
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212002x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 78
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.062	1.062	(0.251)	32701	11.8531	59.3	
	7 Diethyl ether	74	1.501	1.496	(0.355)	1067	1.48169	7.41	
	11 1,1-Dichloroethene	96	1.627	1.627	(0.385)	1858	1.33448	6.67	
	18 Methylene Chloride	84	1.904	1.904	(0.450)	742	0.43205	2.16	
	22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	19685	12.3977	62.0	
	29 1,2-Dichloroethene (cis)	96	2.871	2.872	(0.679)	338814	204.918	1020	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	81009	51.8641	51.9	
	42 Benzene	78	3.834	3.834	(0.906)	2204	0.36061	1.80	
*	46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	300787	50.0000		
	47 Trichloroethene	95	4.681	4.682	(1.106)	2188962	1361.66	6810	
$	57 Toluene-d8	98	6.078	6.073	(0.822)	280934	49.0051	49.0	
	58 Toluene	91	6.151	6.146	(0.832)	2961	0.42111	2.10	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	220784	50.0000		
	70 Ethylbenzene	106	7.495	7.495	(1.014)	320	0.12880	0.644(Q)	
$	76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	103264	51.5229	51.5	
	84 1,3,5-Trimethylbenzene	105	8.463	8.463	(0.952)	434	0.06786	0.339	
	87 1,2,4-Trimethylbenzene	105	8.682	8.677	(0.977)	883	0.13268	0.663	
	89 1,3-Dichlorobenzene	146	8.844	8.840	(0.995)	192	0.04841	0.242(Q)	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	115236	50.0000		
	92 1,4-Dichlorobenzene	146	8.902	8.897	(1.002)	356	0.08944	0.447(Q)	
	100 2,methyl-naphthalene	142	10.711	10.702	(1.205)	1485	0.37610	1.88	

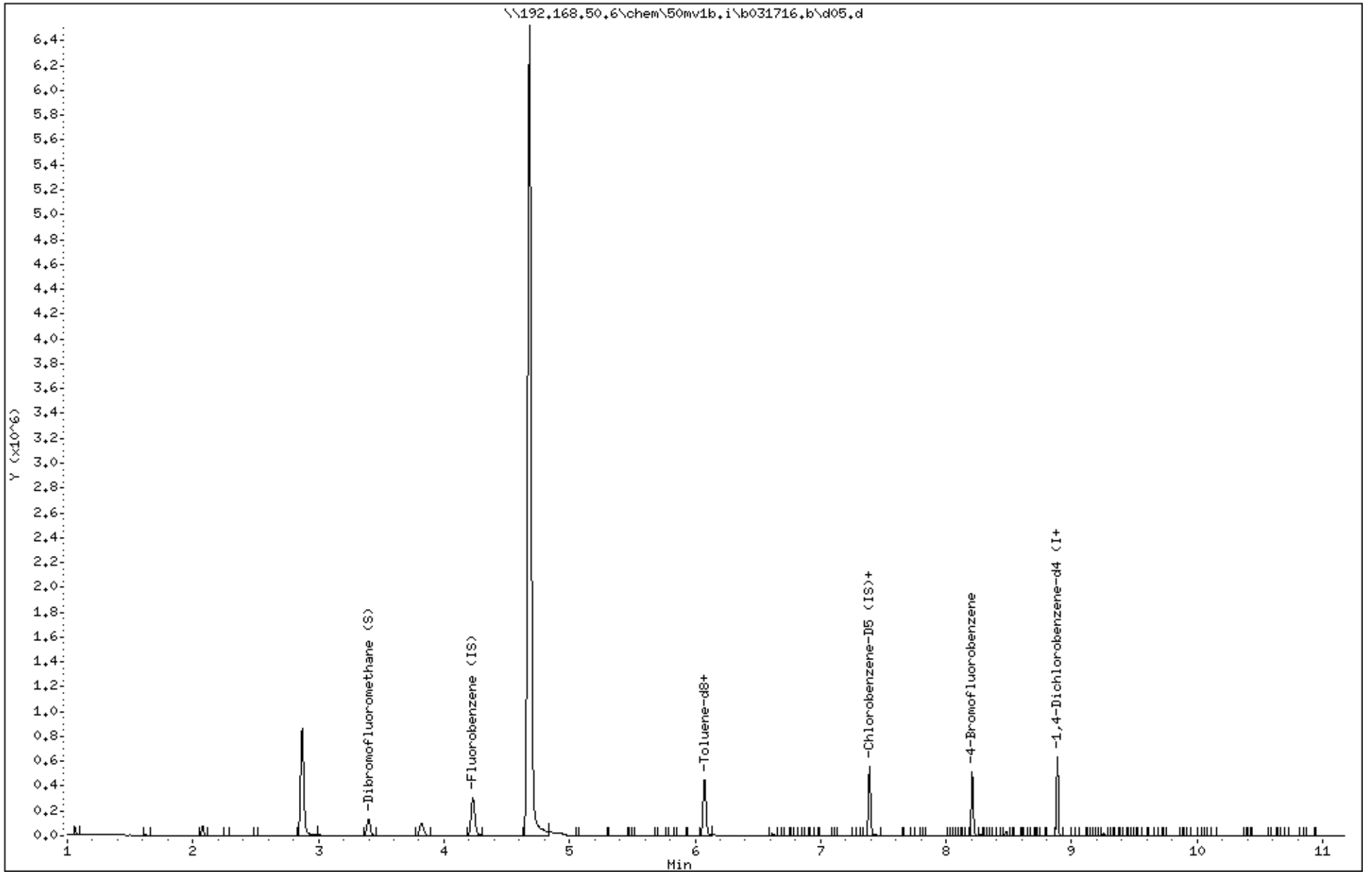
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d
Date : 18-MAR-2016 02:55
Client ID: MW-0101-S1U(030916)
Instrument: 50mv1b.i
Sample Info: 50140212002x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

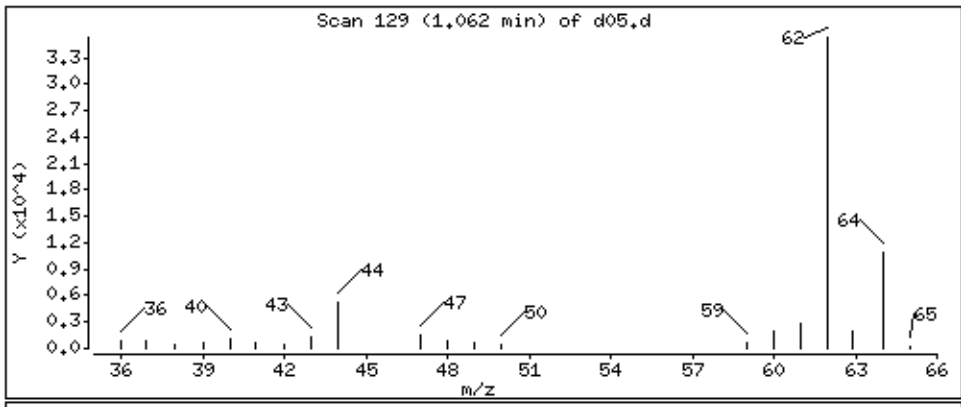
Operator: grm

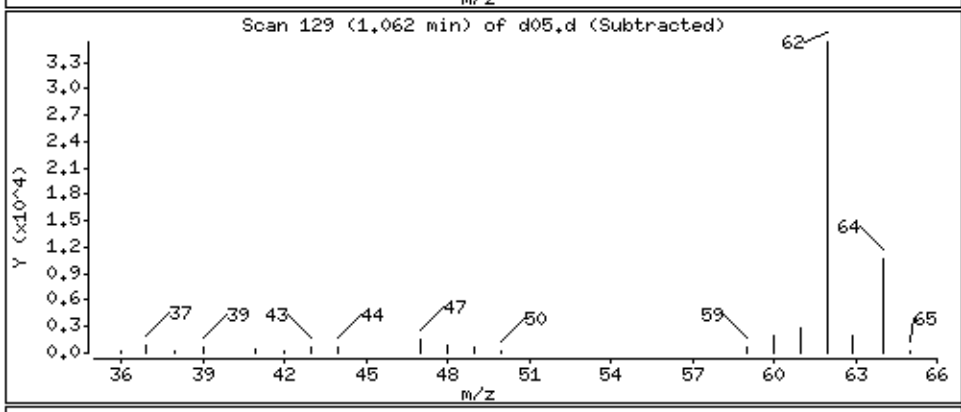
Column phase: DB-624

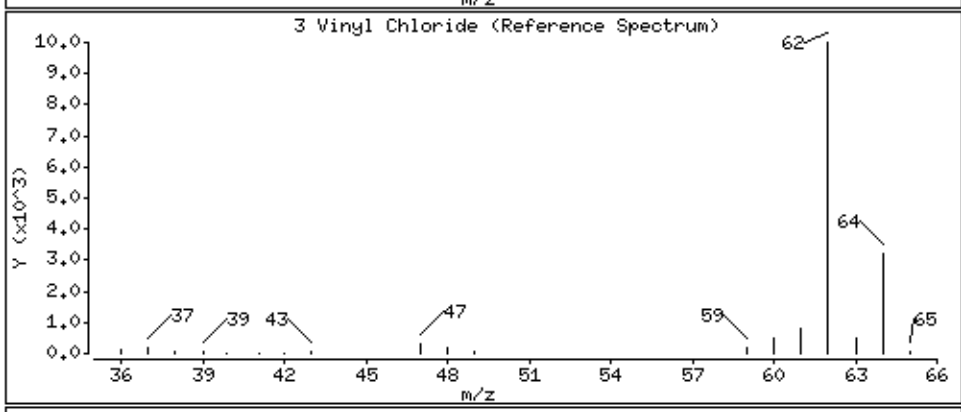
Column diameter: 0.18

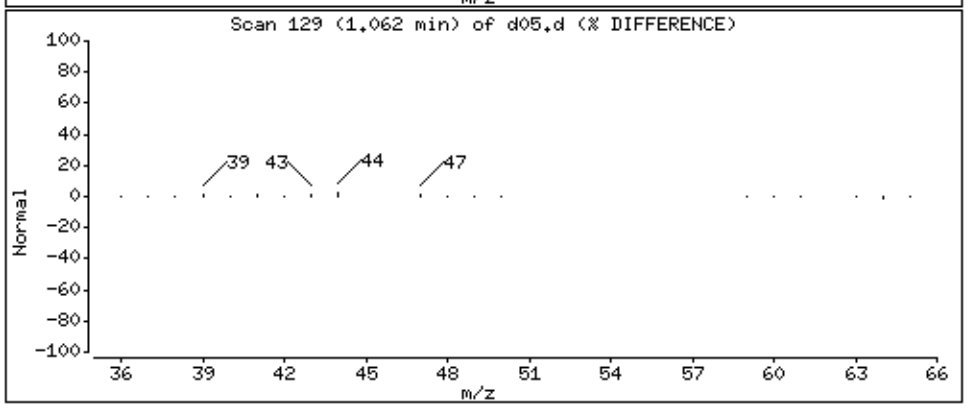
3 Vinyl Chloride

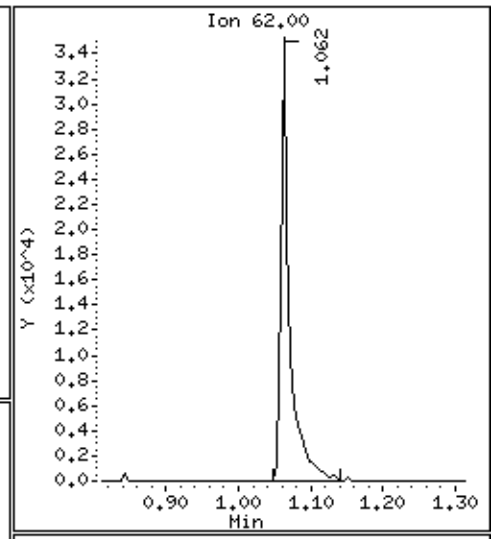
Concentration: 59.3 ppb

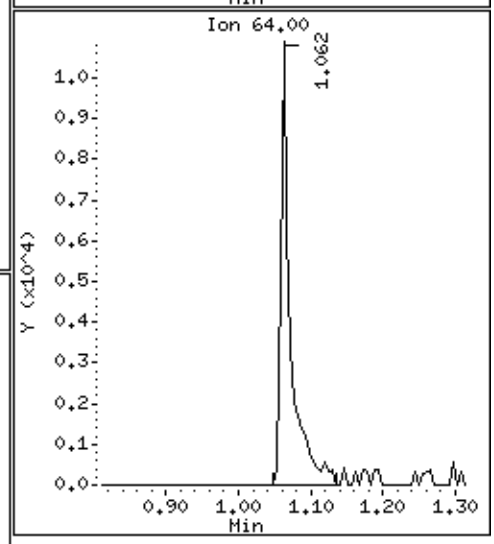












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

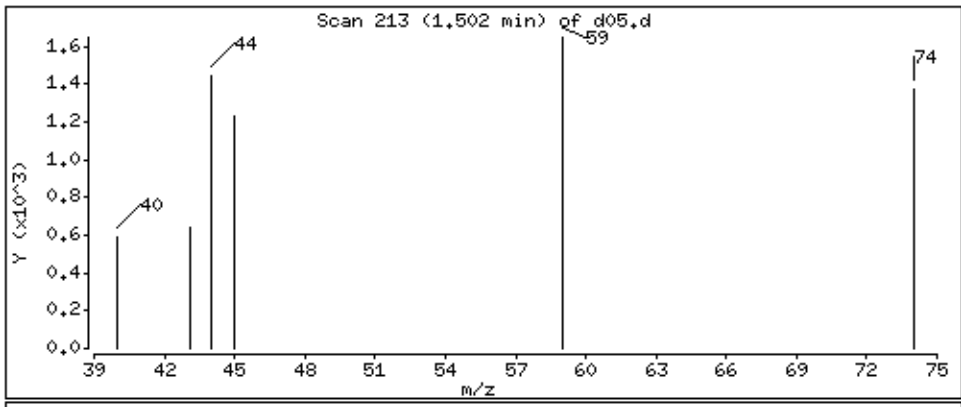
Operator: grm

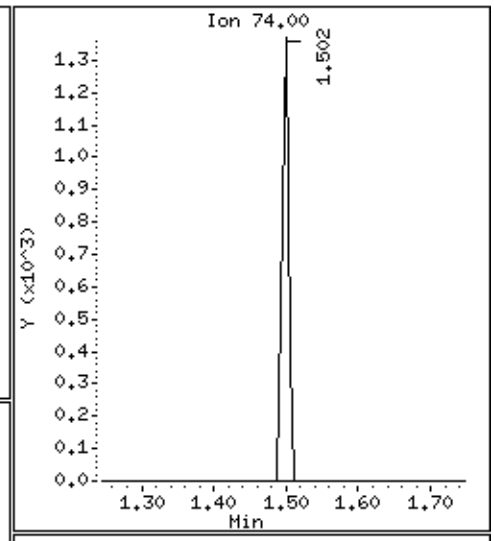
Column phase: DB-624

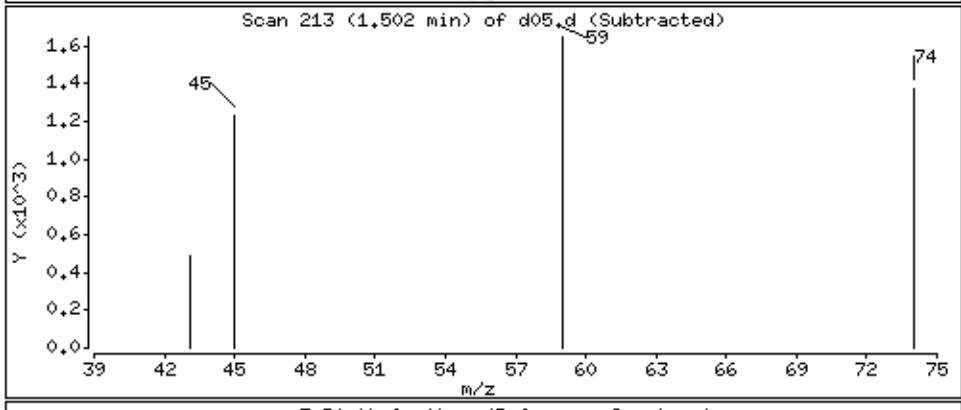
Column diameter: 0.18

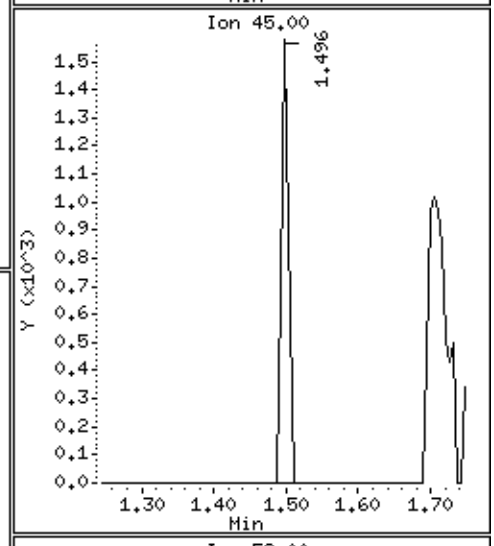
7 Diethyl ether

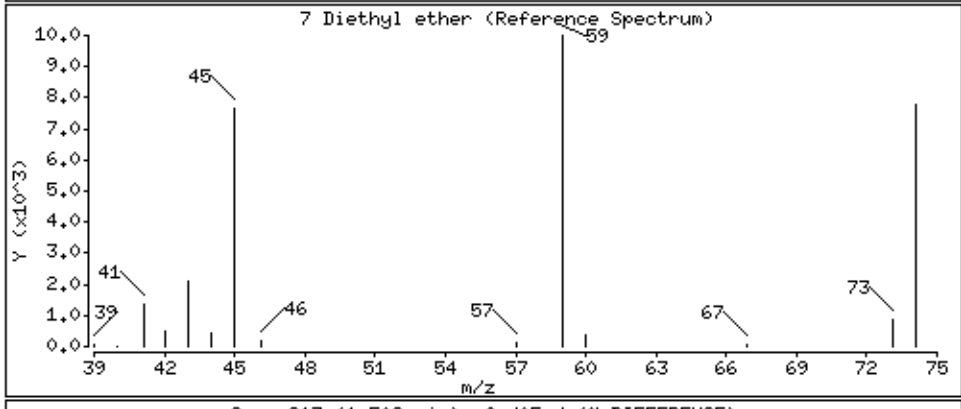
Concentration: 7.41 ppb

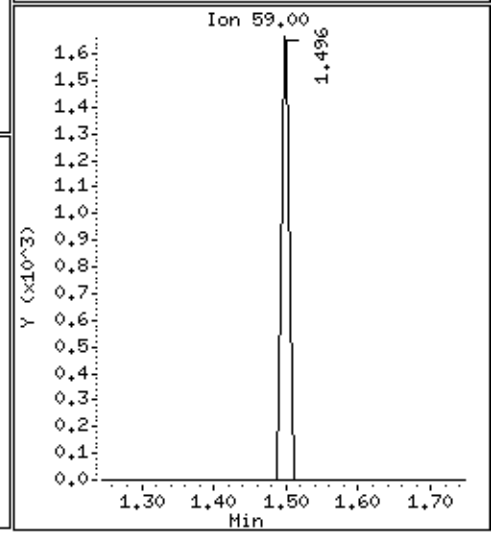


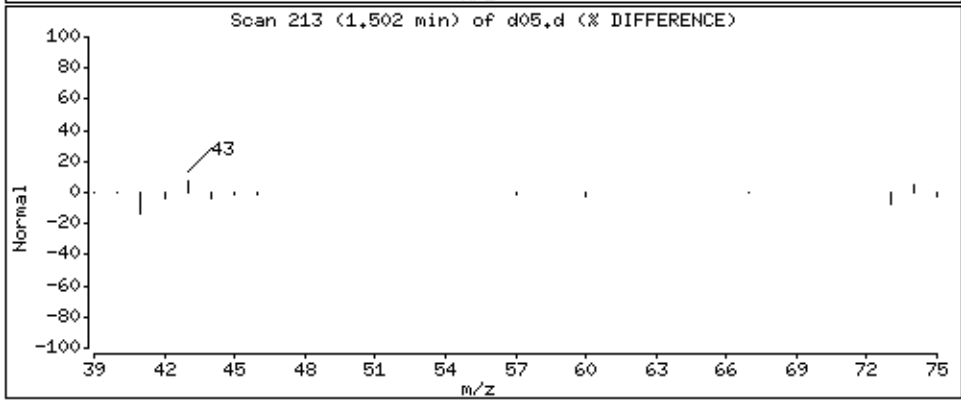












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

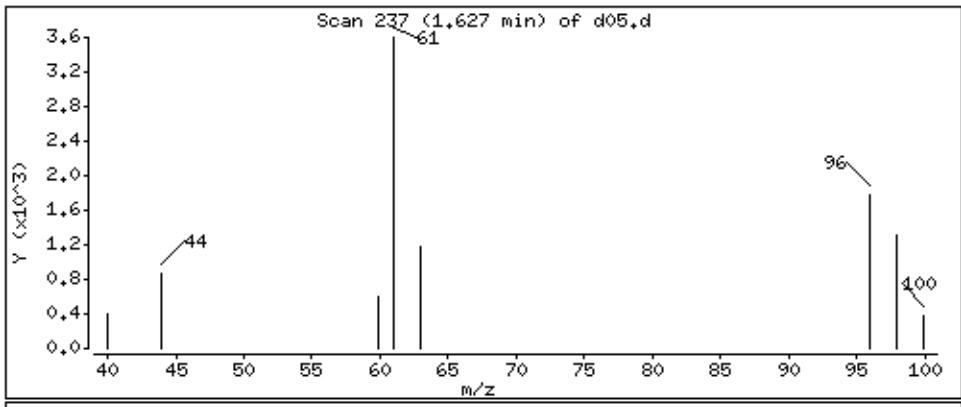
Operator: grm

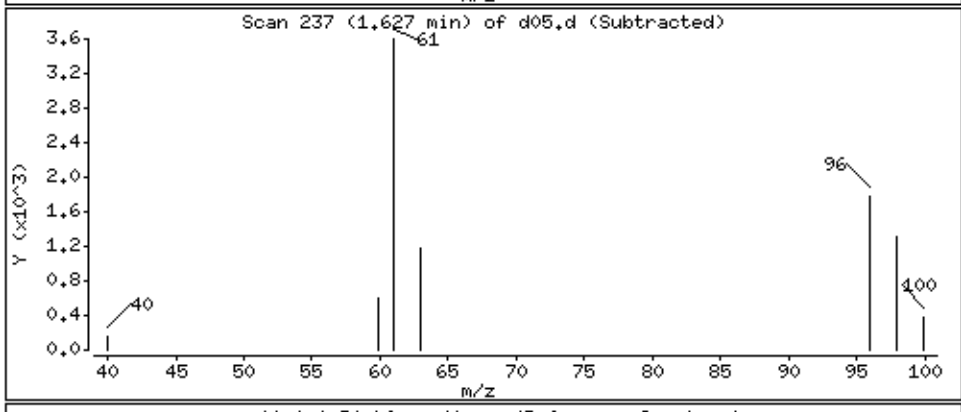
Column phase: DB-624

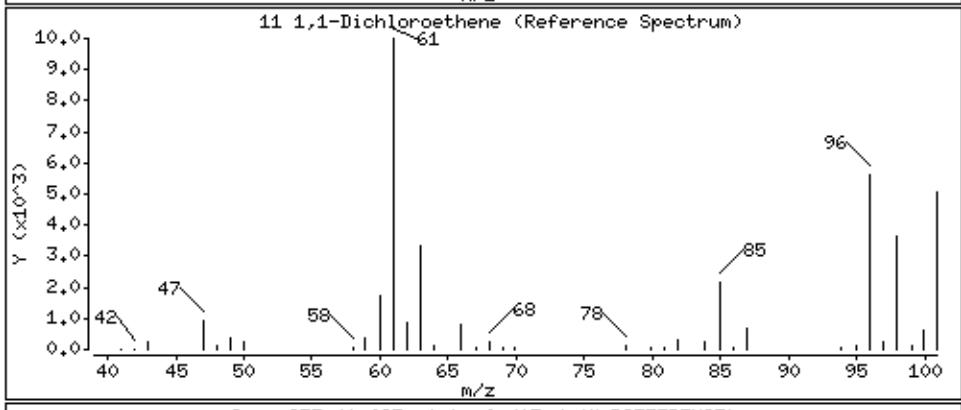
Column diameter: 0.18

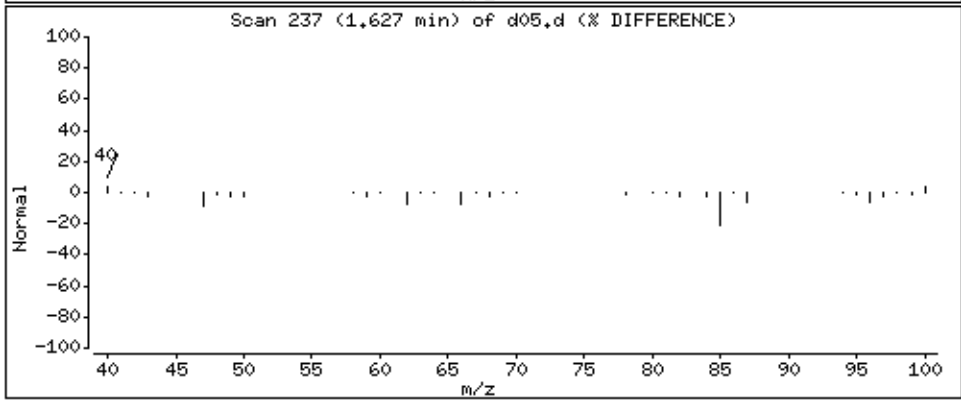
11 1,1-Dichloroethene

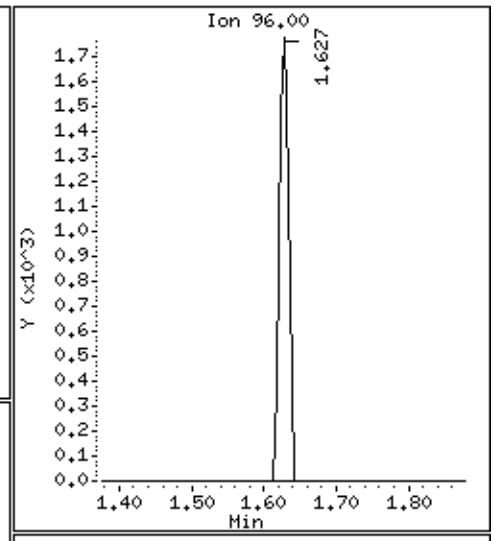
Concentration: 6.67 ppb

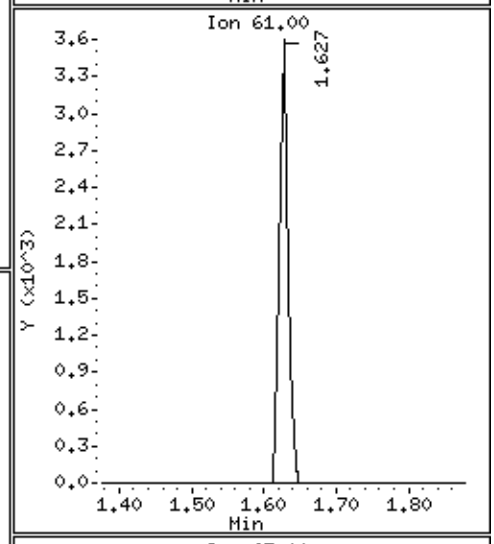


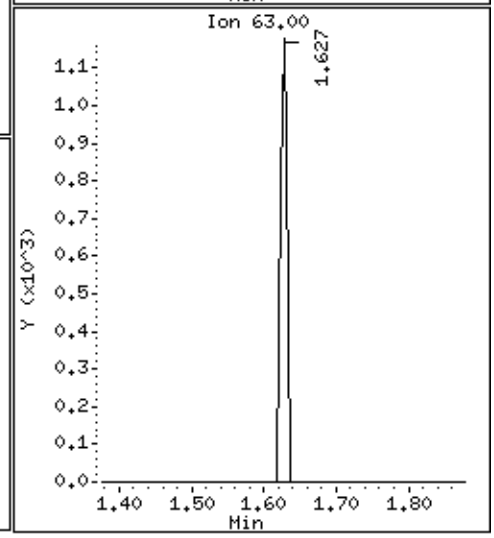












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

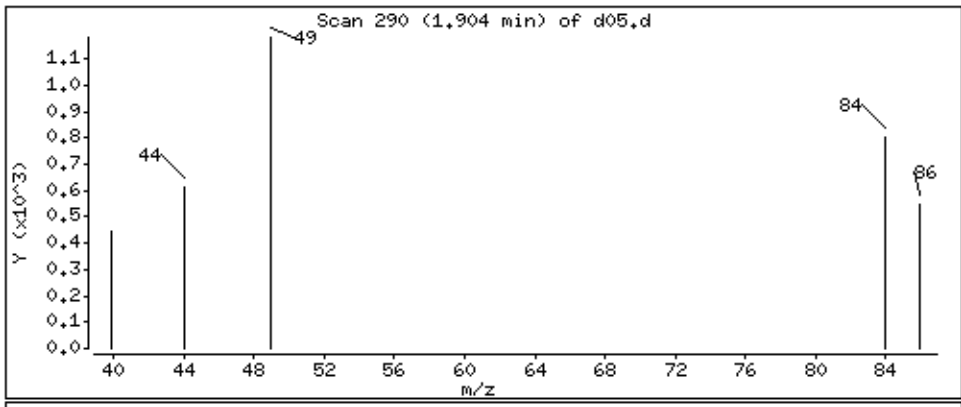
Operator: grm

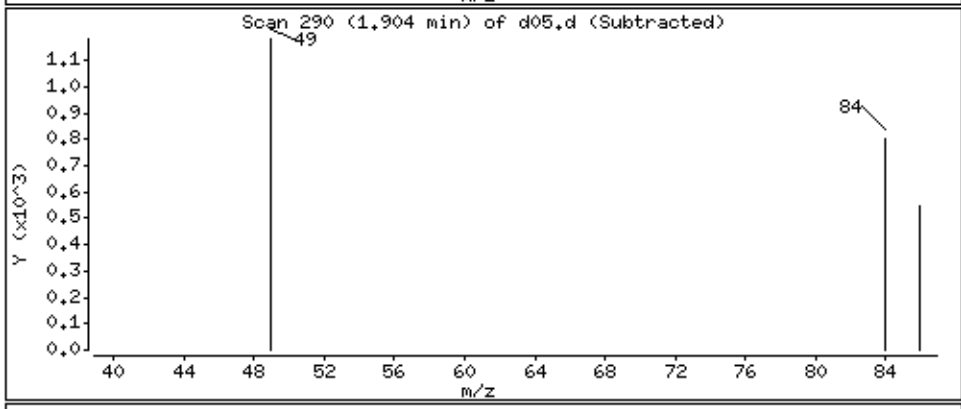
Column phase: DB-624

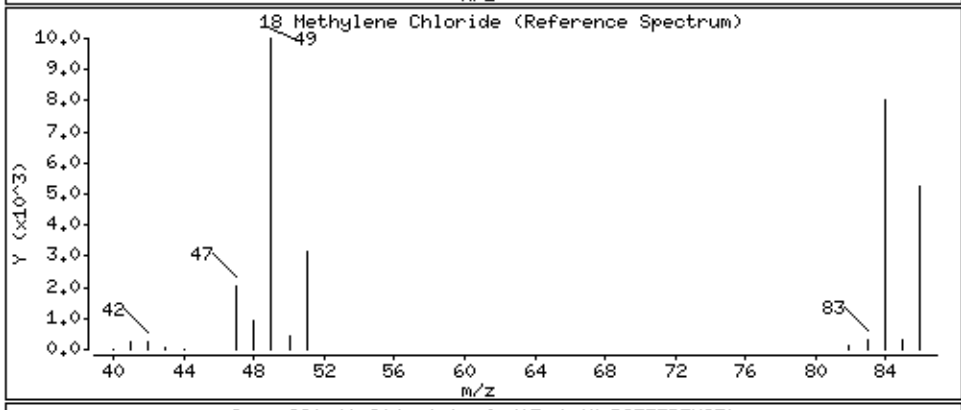
Column diameter: 0.18

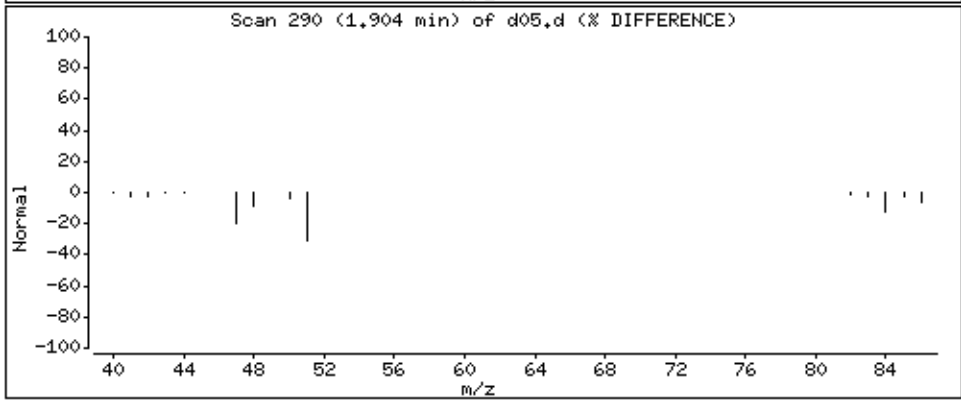
18 Methylene Chloride

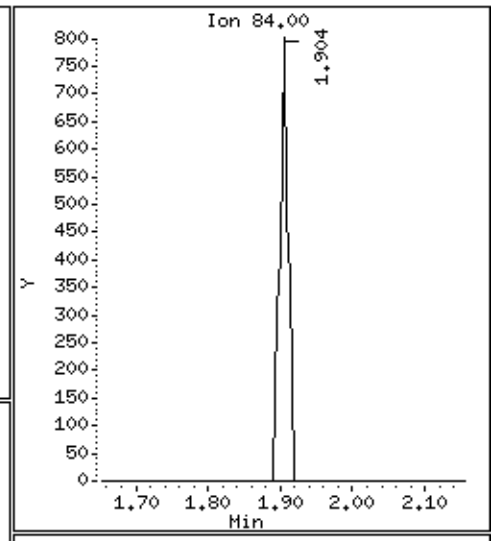
Concentration: 2.16 ppb

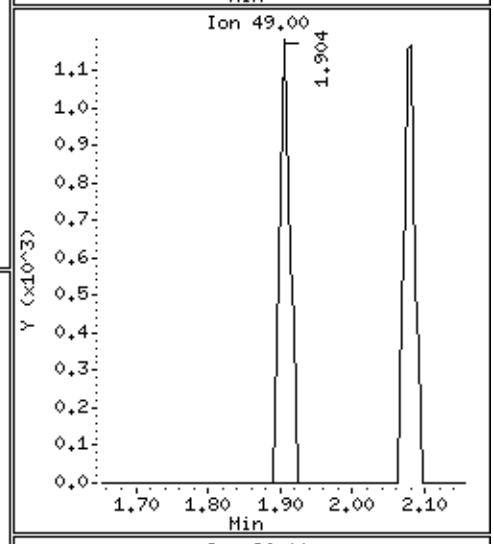


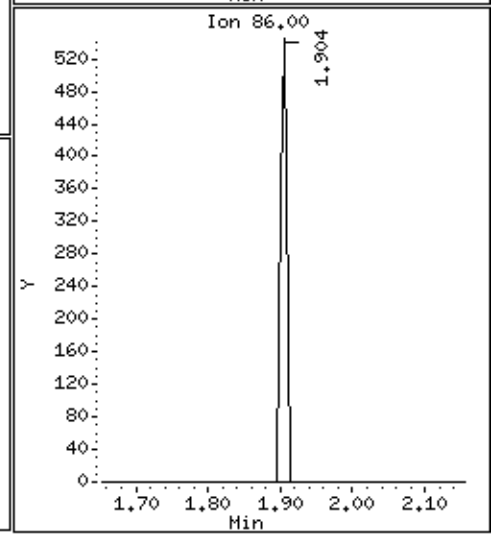












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

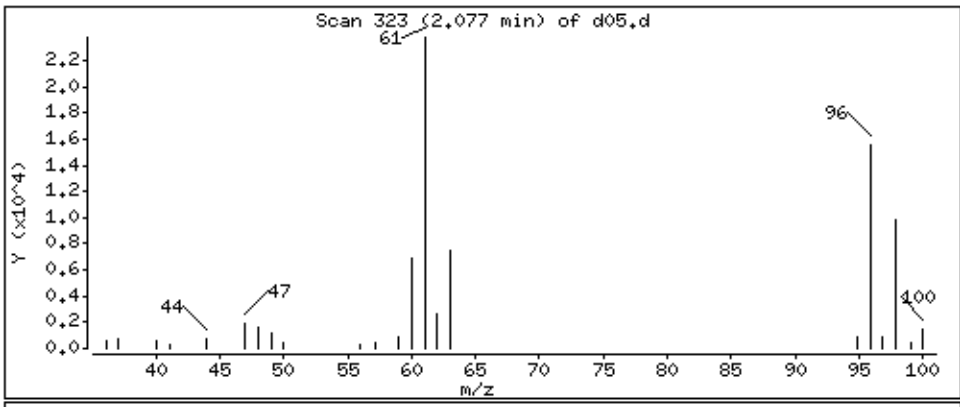
Operator: grm

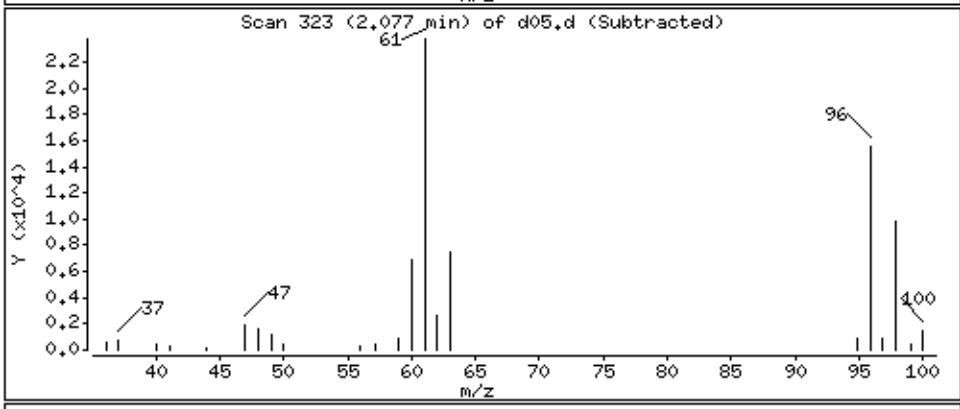
Column phase: DB-624

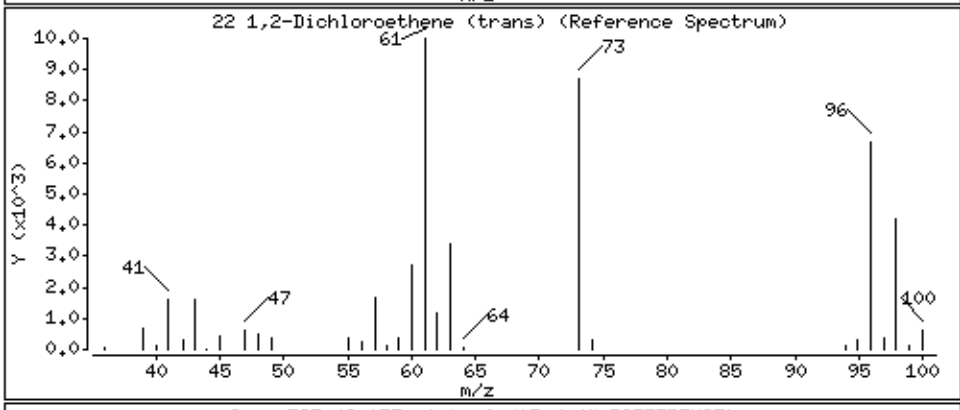
Column diameter: 0.18

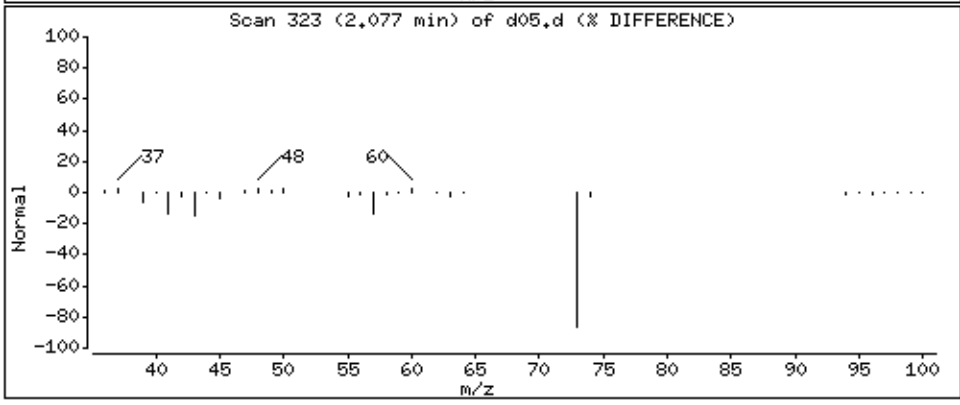
22 1,2-Dichloroethene (trans)

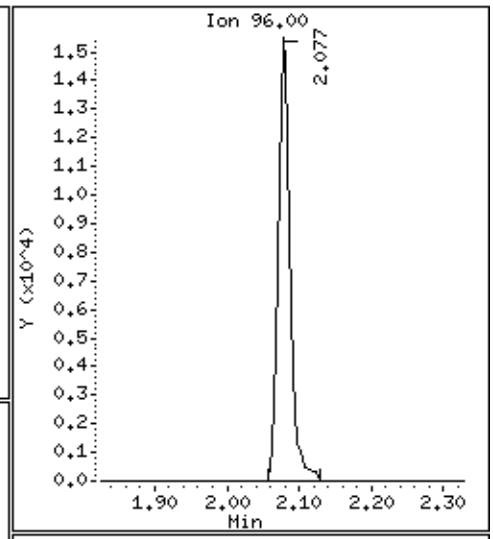
Concentration: 62.0 ppb

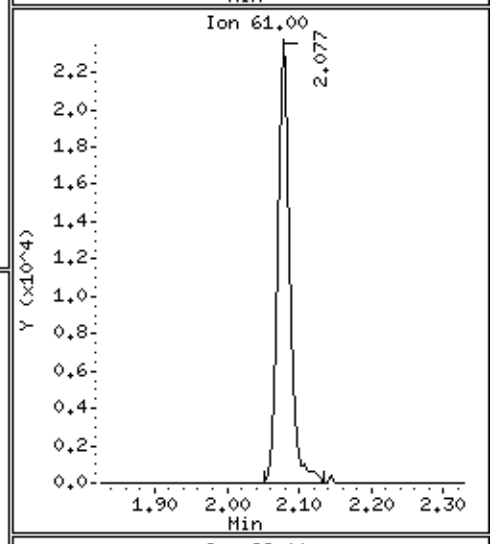


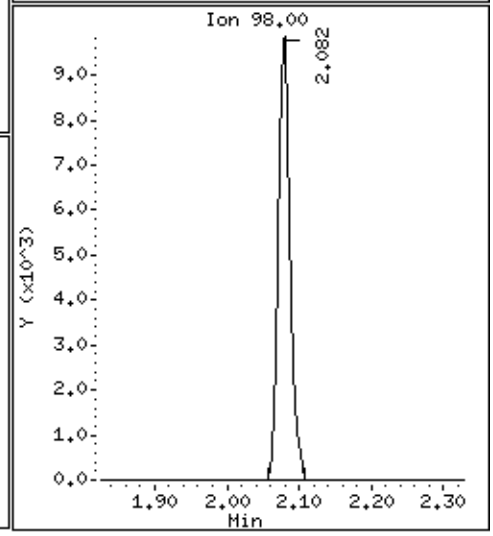












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

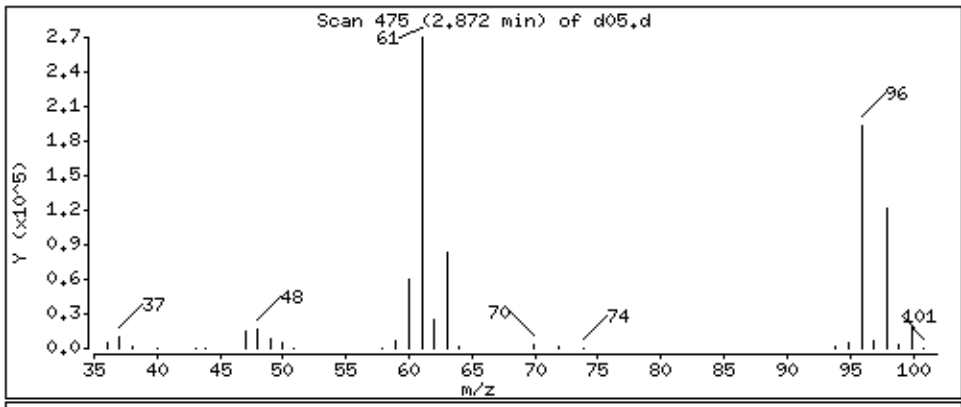
Operator: grm

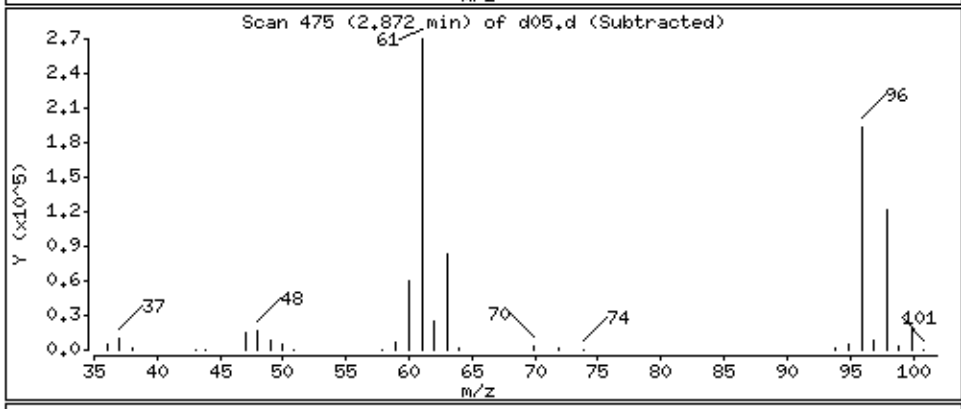
Column phase: DB-624

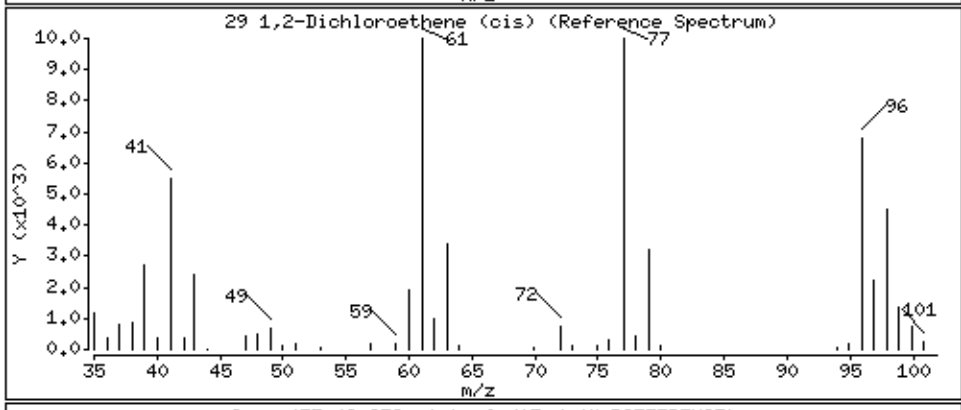
Column diameter: 0.18

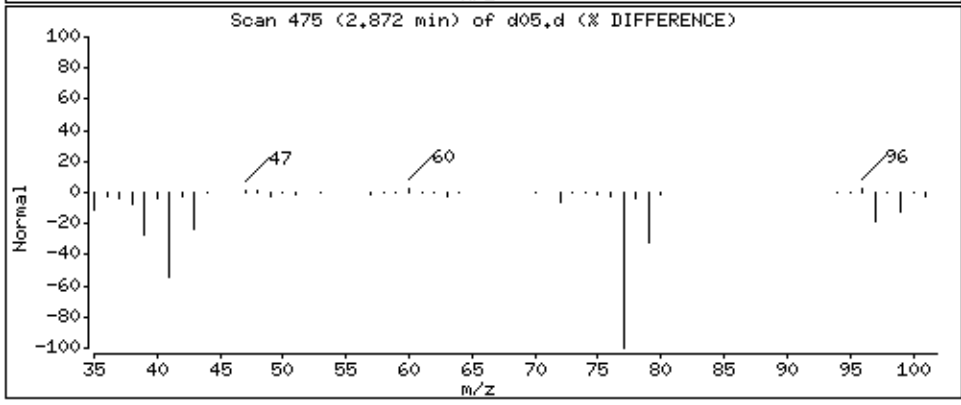
29 1,2-Dichloroethene (cis)

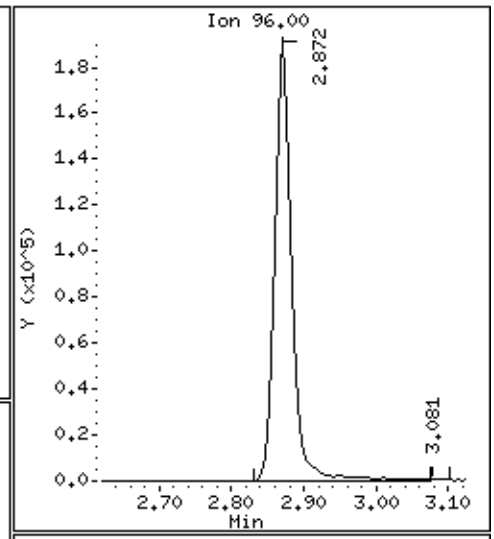
Concentration: 1020 ppb

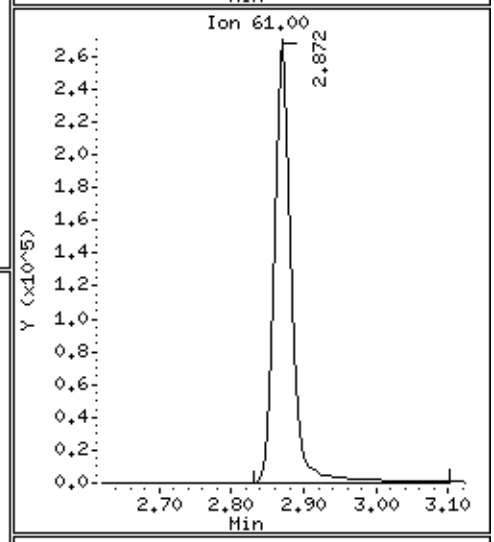


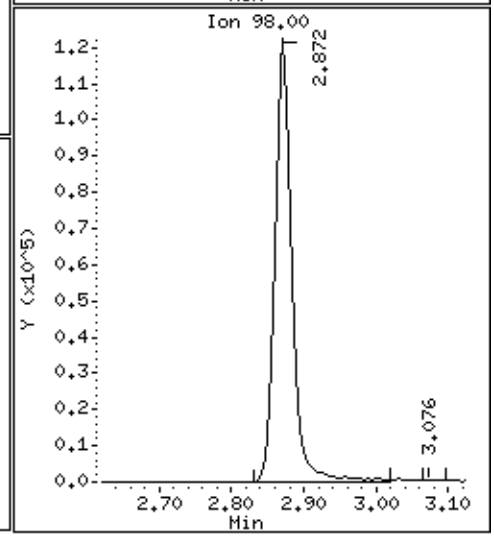












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

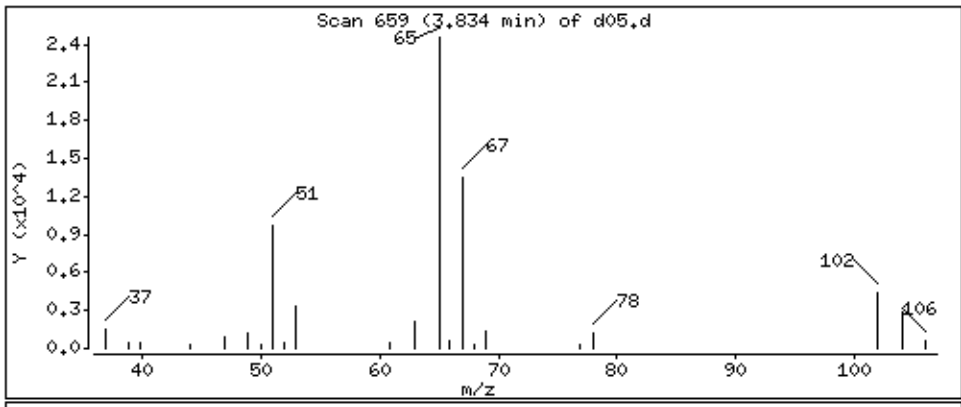
Operator: grm

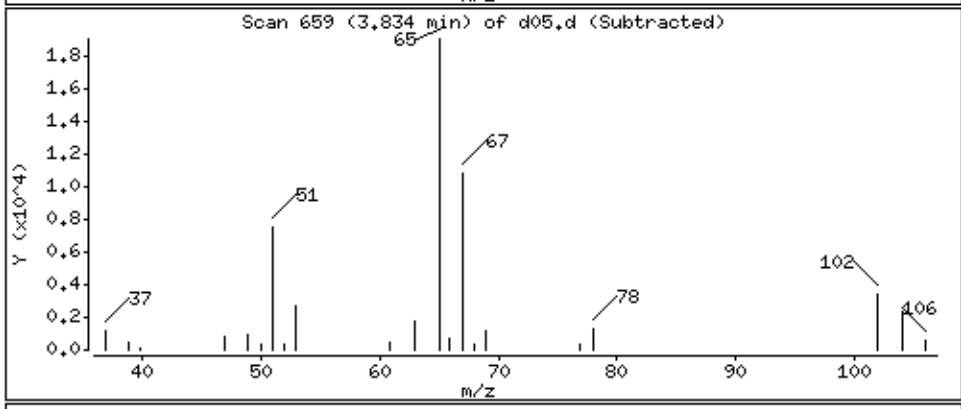
Column phase: DB-624

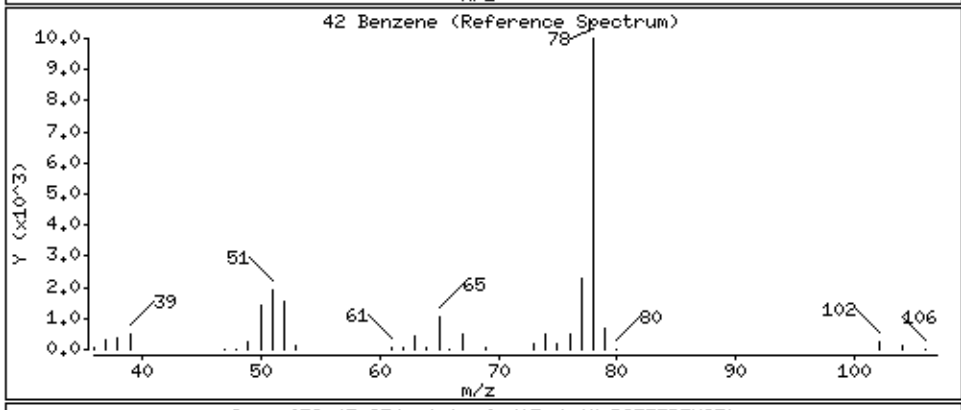
Column diameter: 0.18

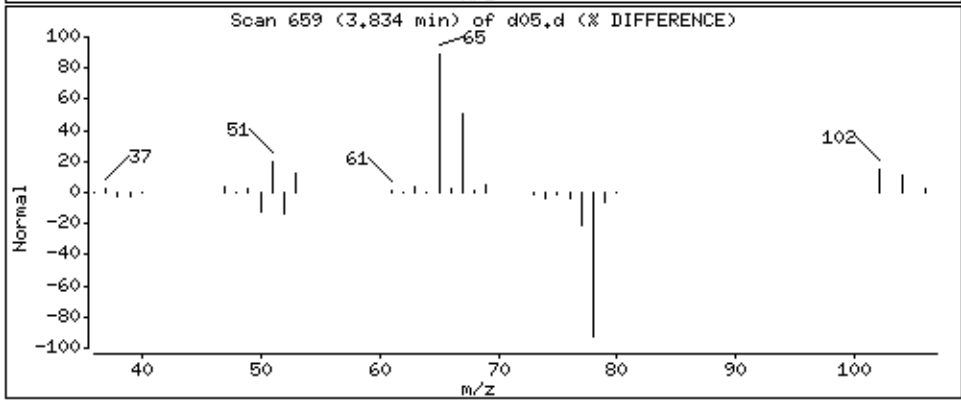
42 Benzene

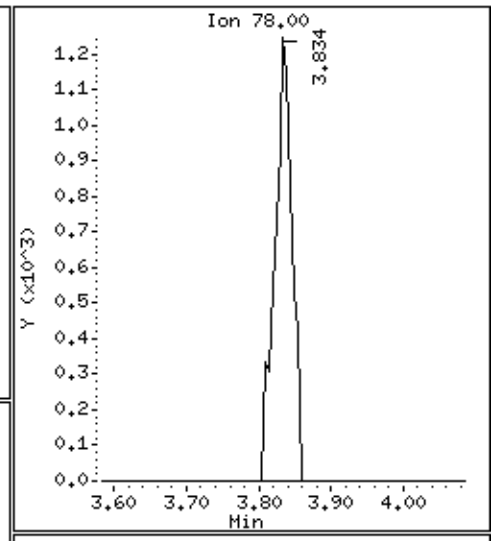
Concentration: 1.80 ppb

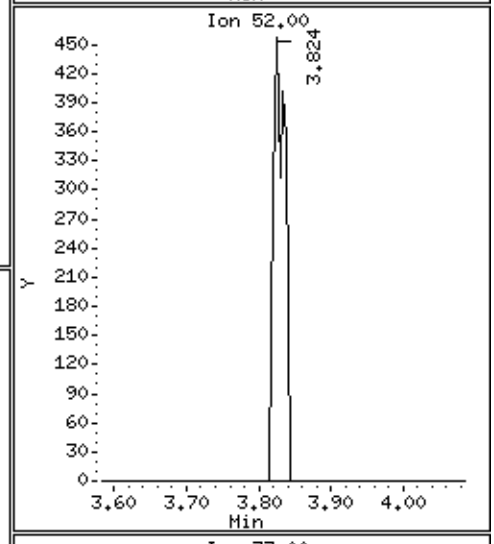


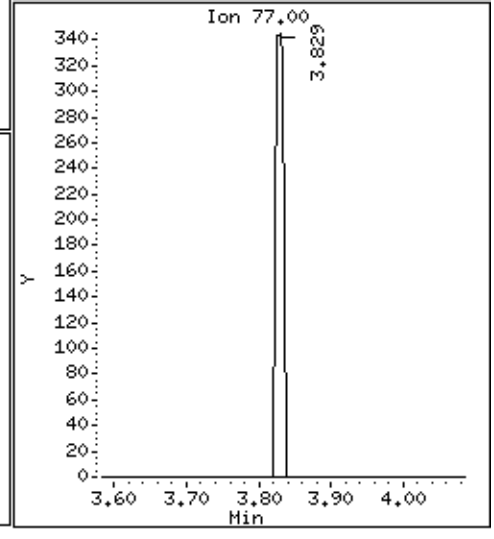












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

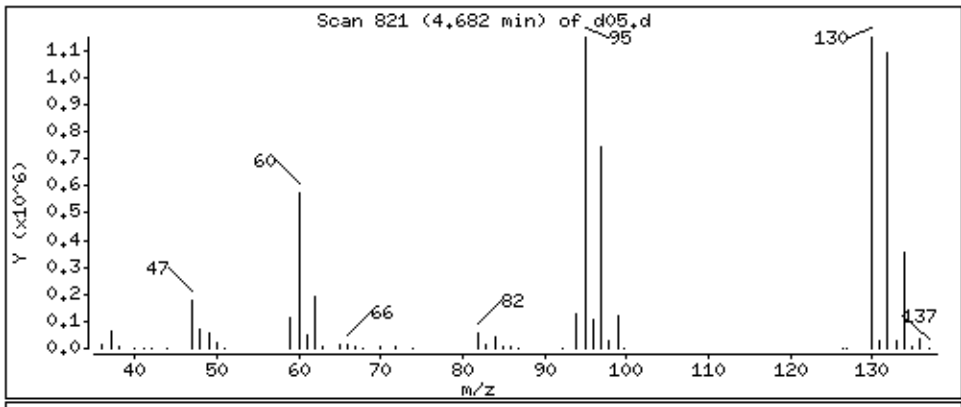
Operator: grm

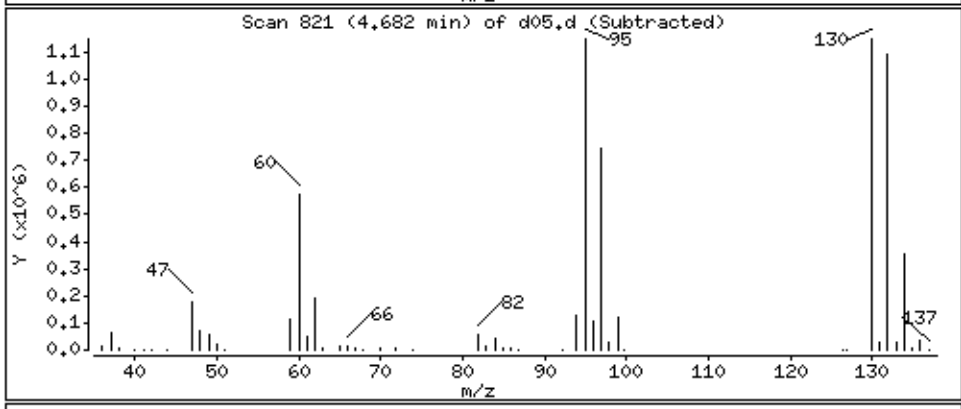
Column phase: DB-624

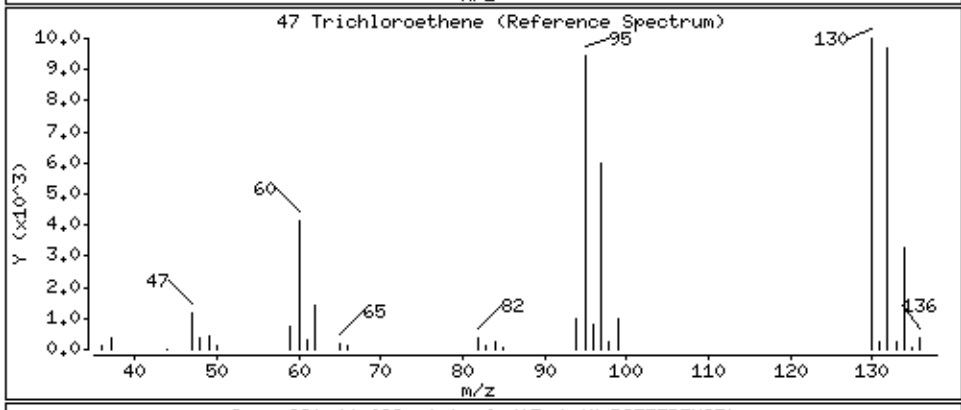
Column diameter: 0.18

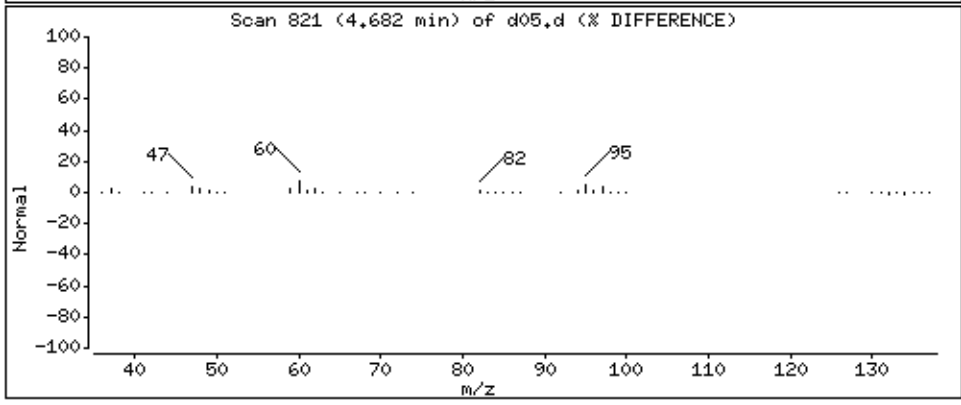
47 Trichloroethene

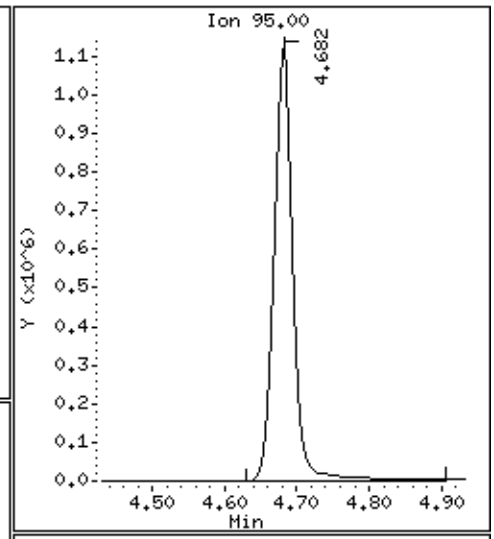
Concentration: 6810 ppb

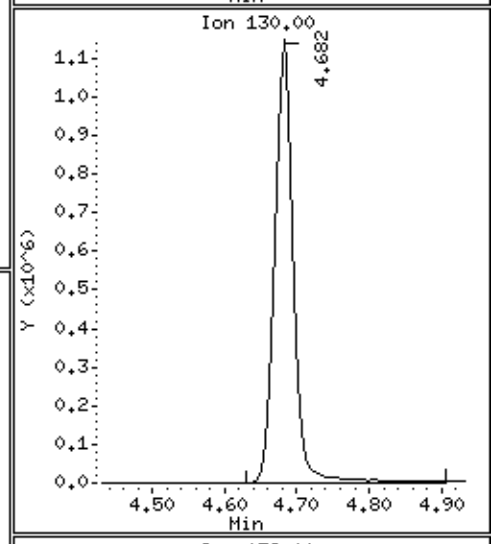


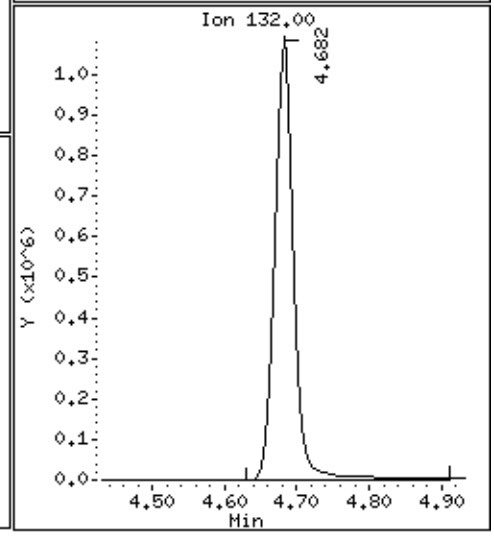












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

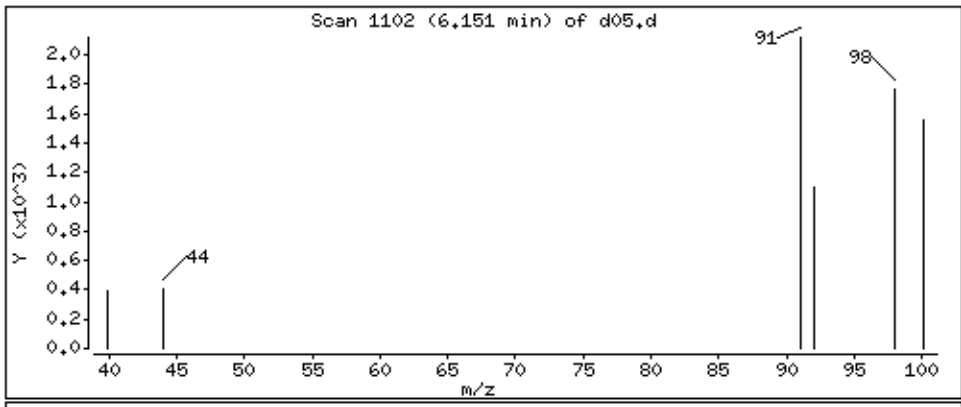
Operator: grm

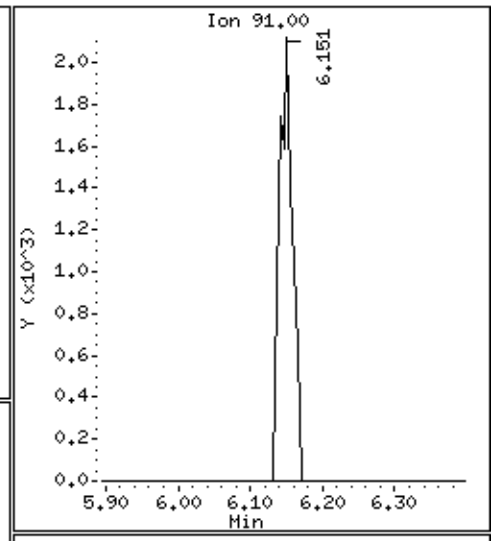
Column phase: DB-624

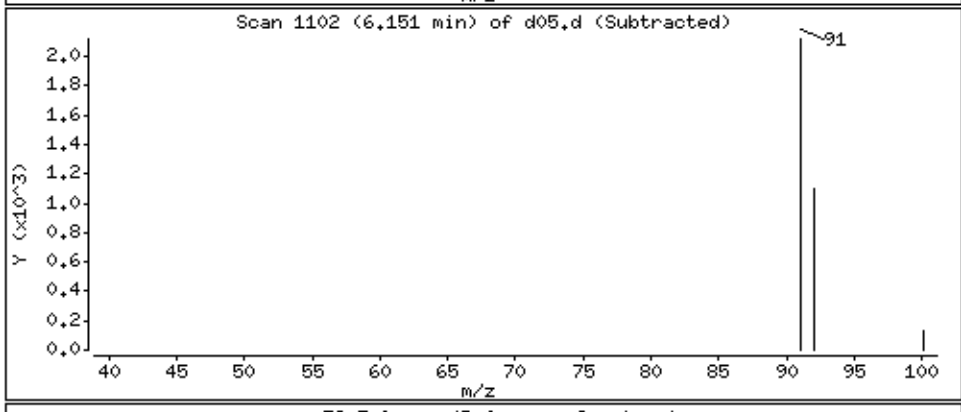
Column diameter: 0.18

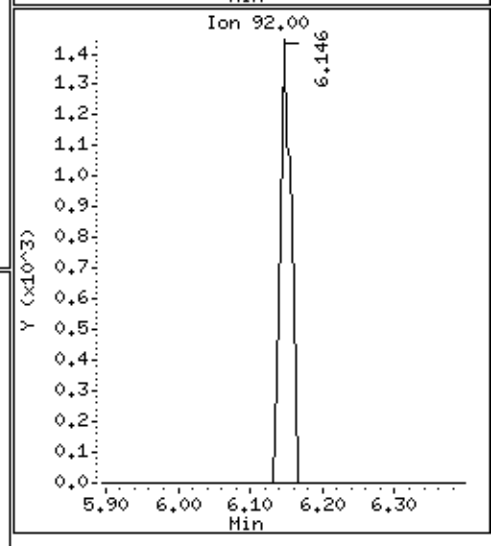
58 Toluene

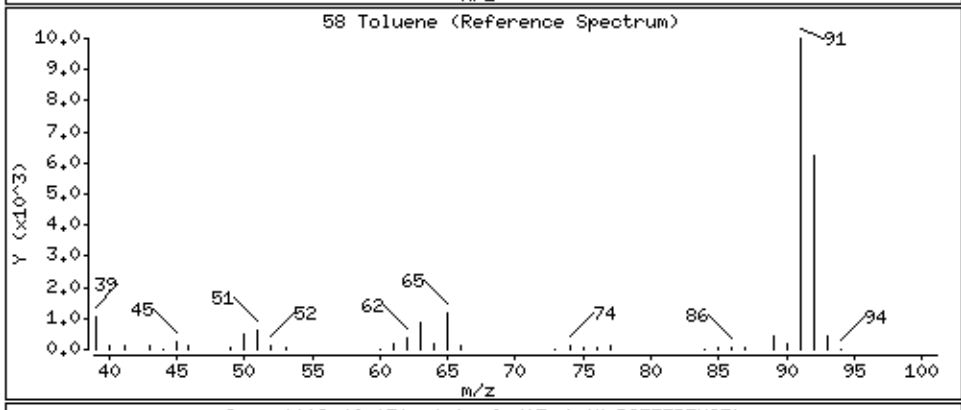
Concentration: 2.10 ppb

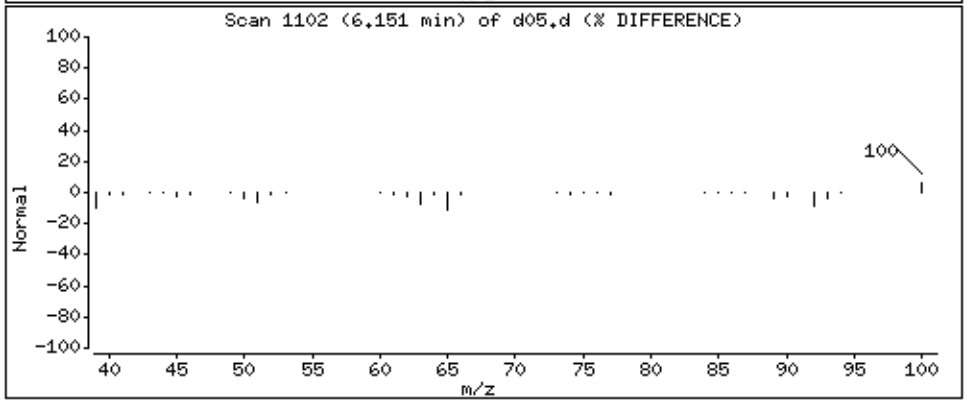












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

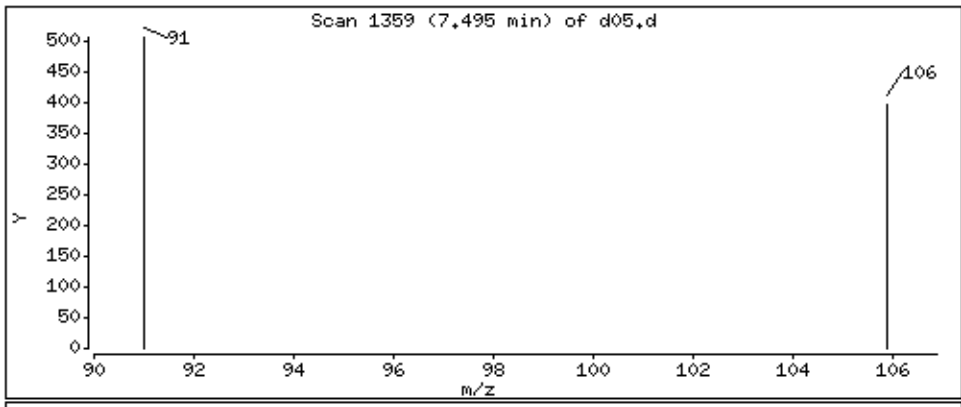
Operator: grm

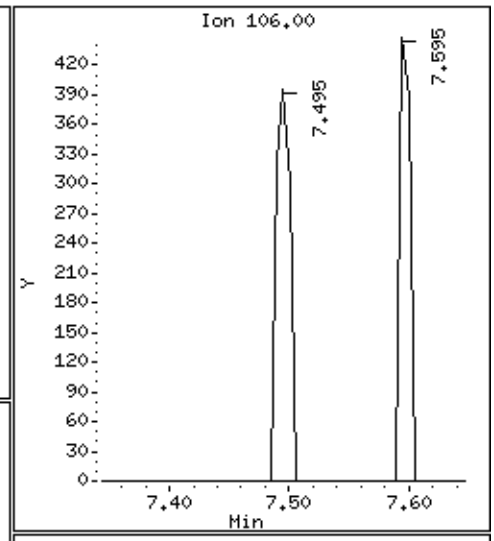
Column phase: DB-624

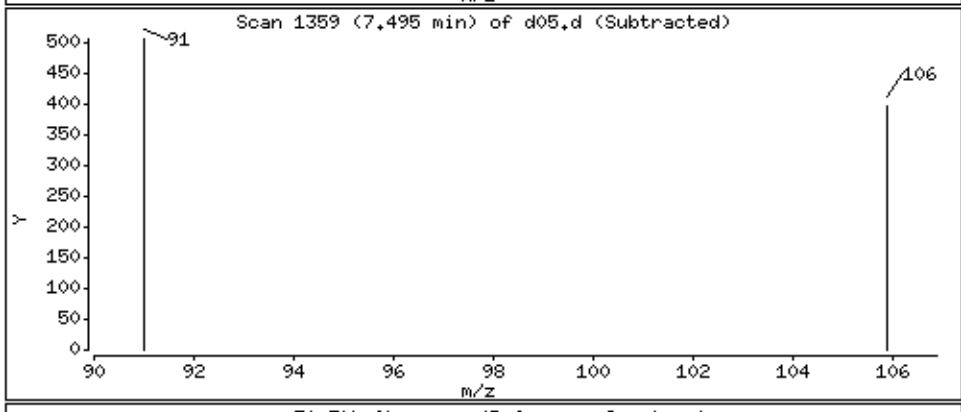
Column diameter: 0.18

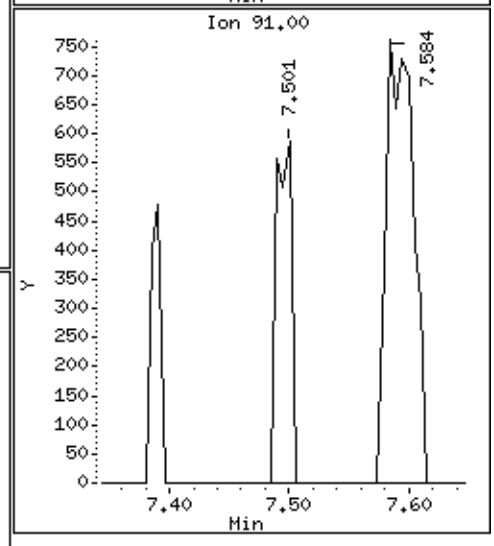
70 Ethylbenzene

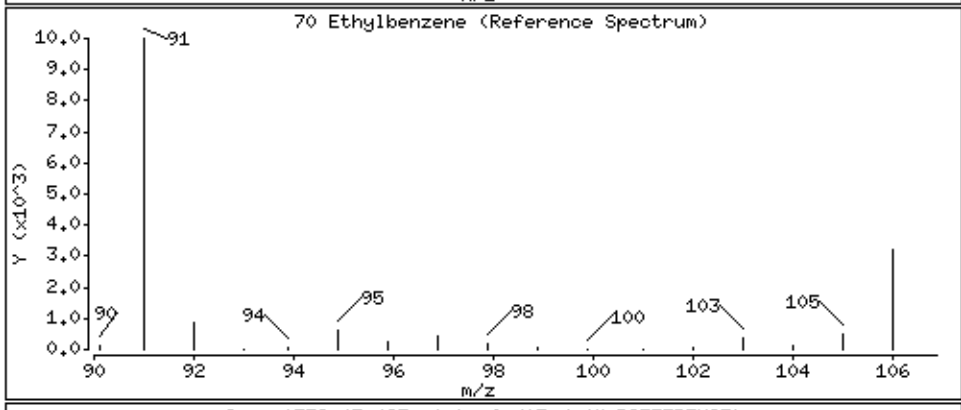
Concentration: 0.644 ppb

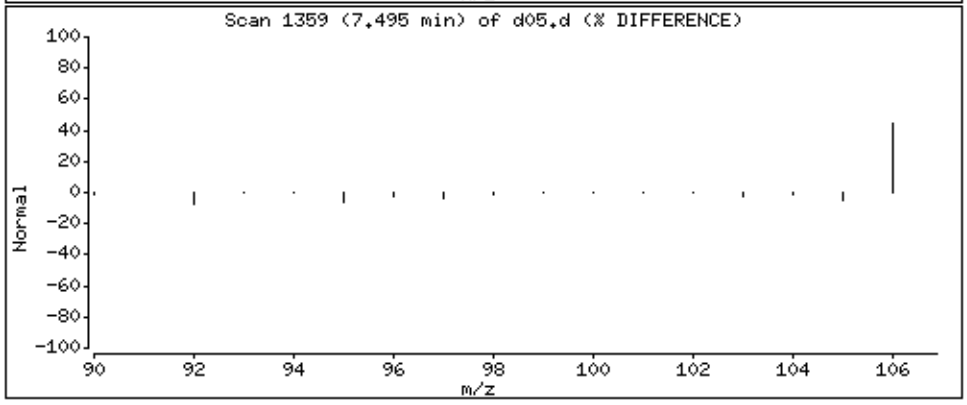












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

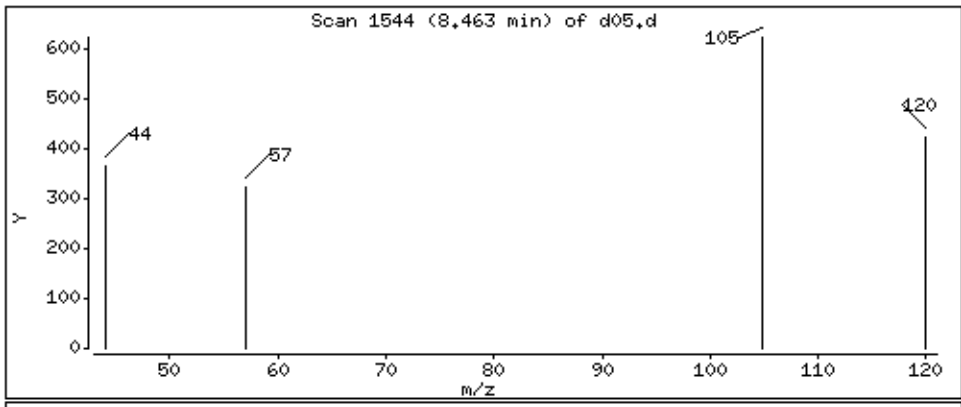
Operator: grm

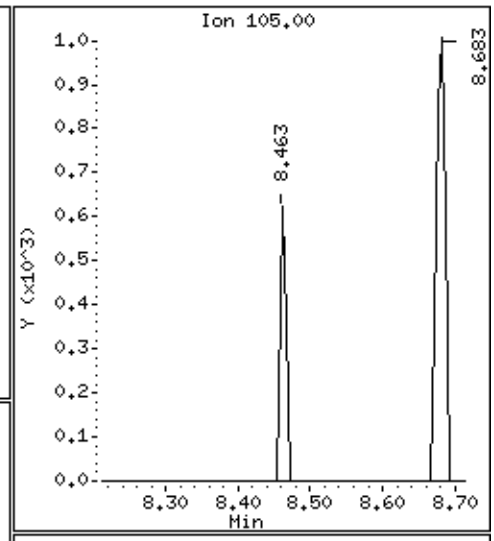
Column phase: DB-624

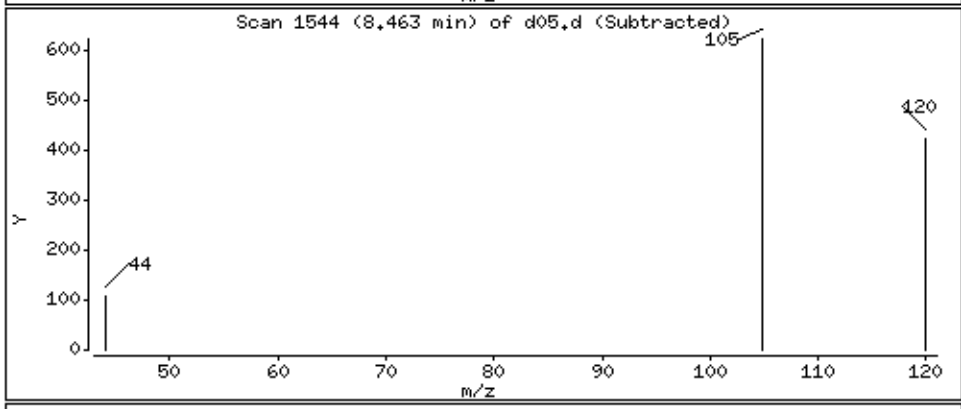
Column diameter: 0.18

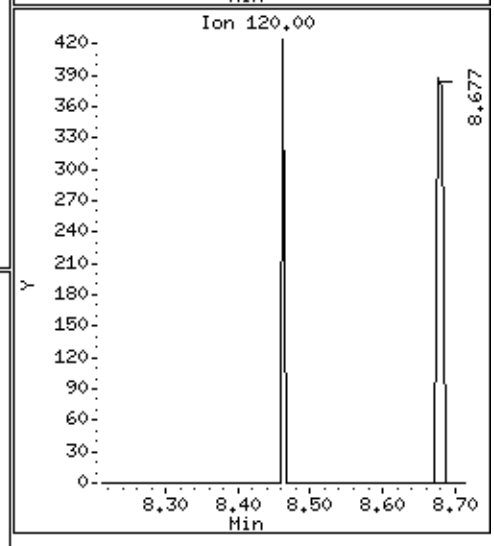
84 1,3,5-Trimethylbenzene

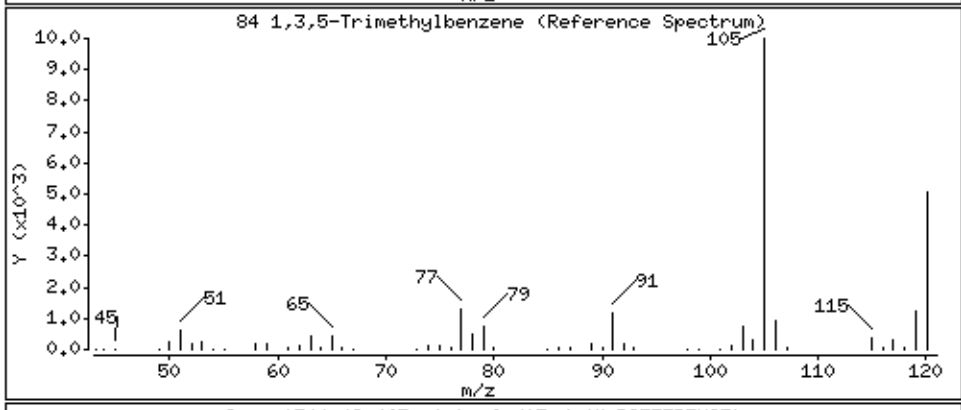
Concentration: 0.339 ppb

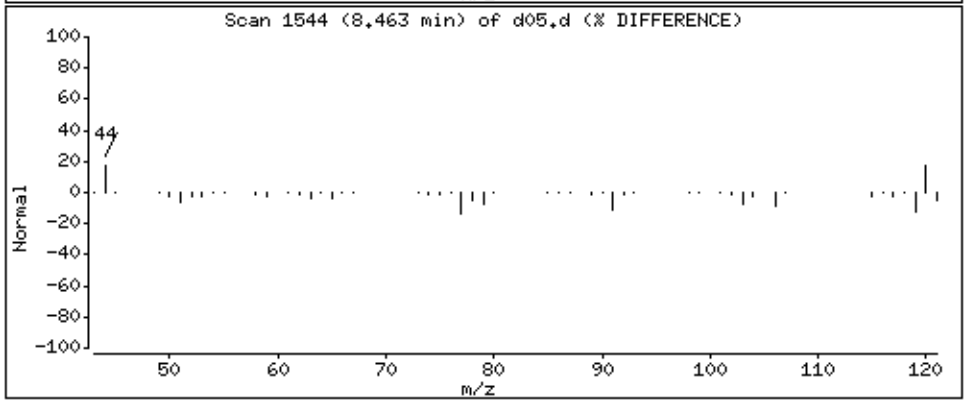












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

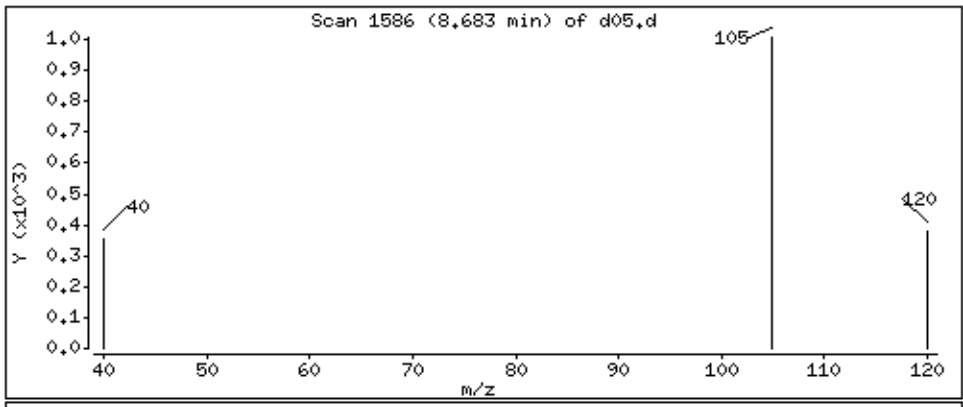
Operator: grm

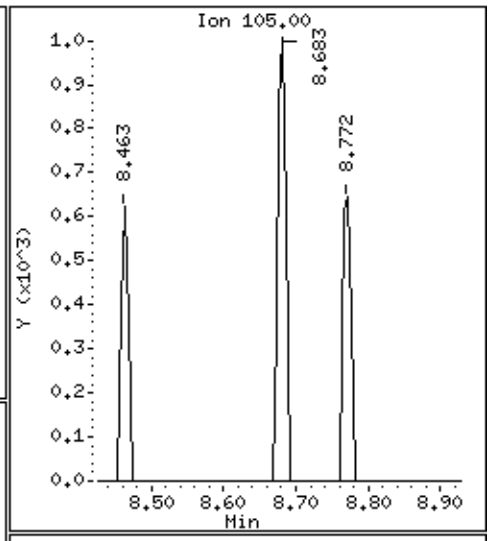
Column phase: DB-624

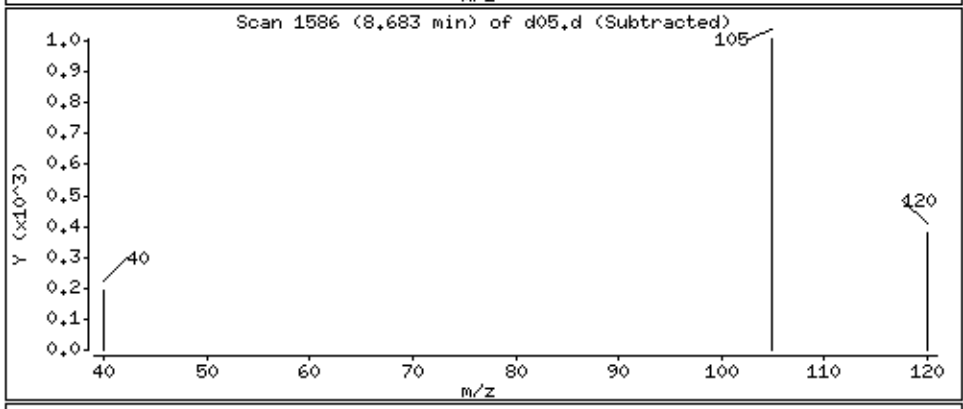
Column diameter: 0.18

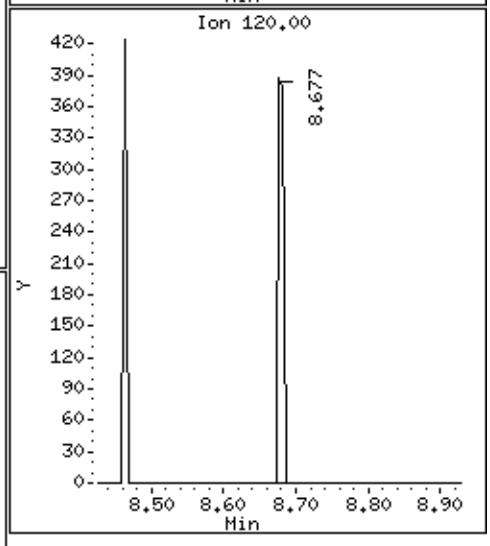
87 1,2,4-Trimethylbenzene

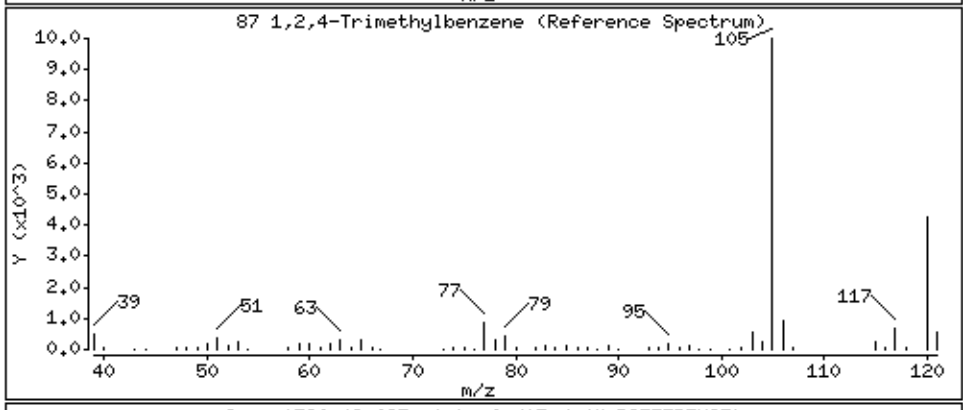
Concentration: 0.663 ppb

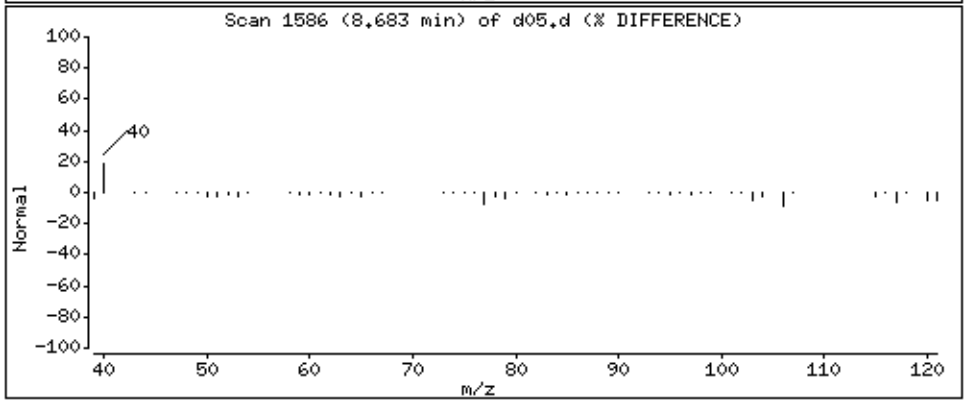












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

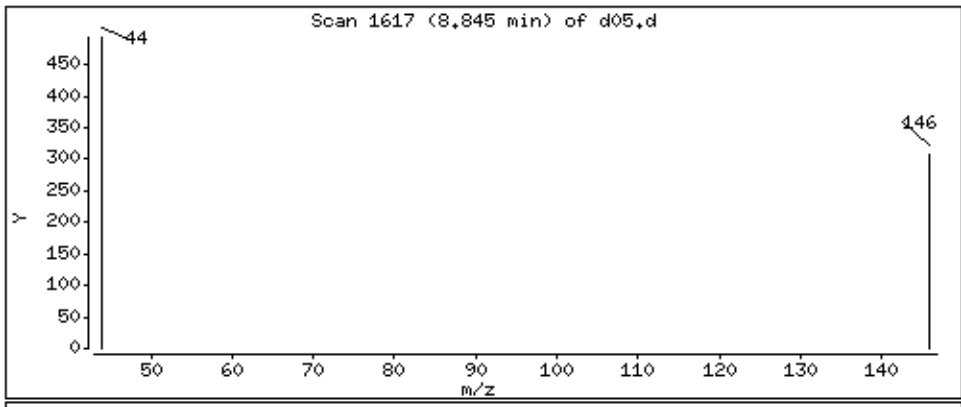
Operator: grm

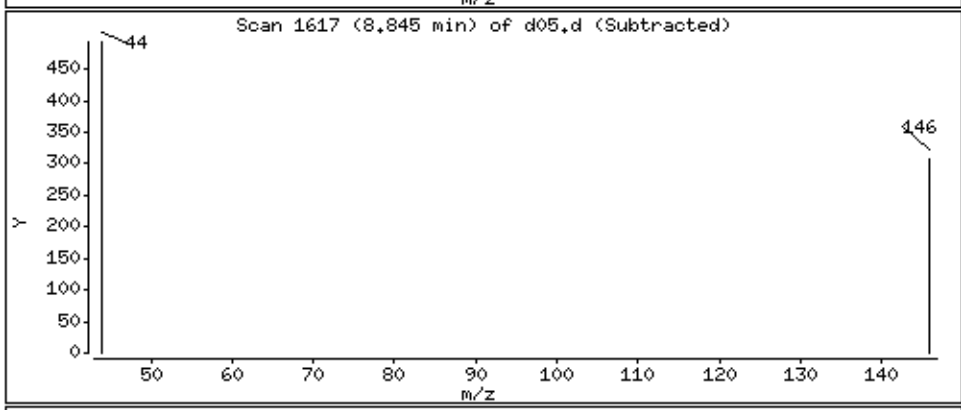
Column phase: DB-624

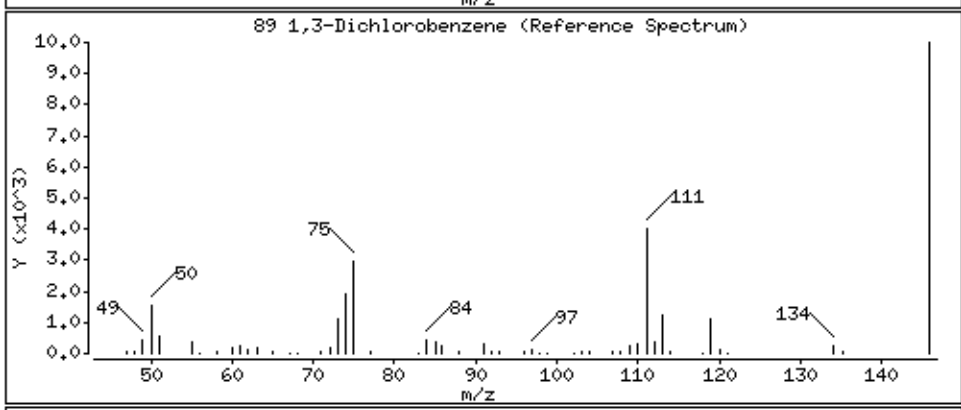
Column diameter: 0.18

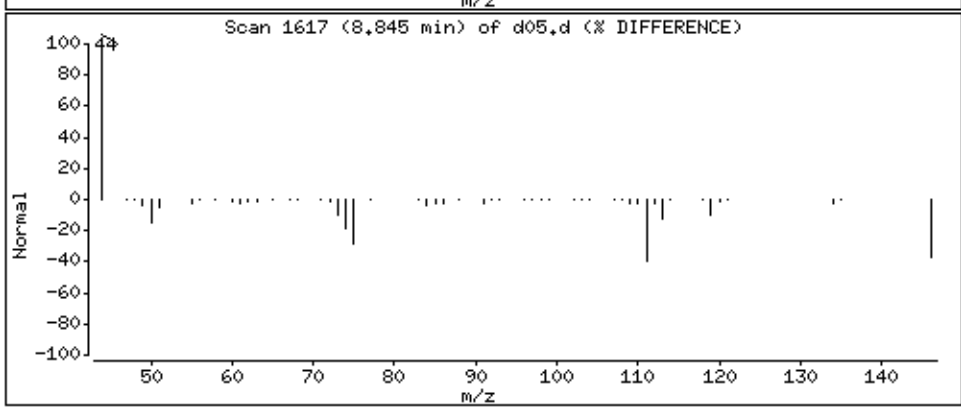
89 1,3-Dichlorobenzene

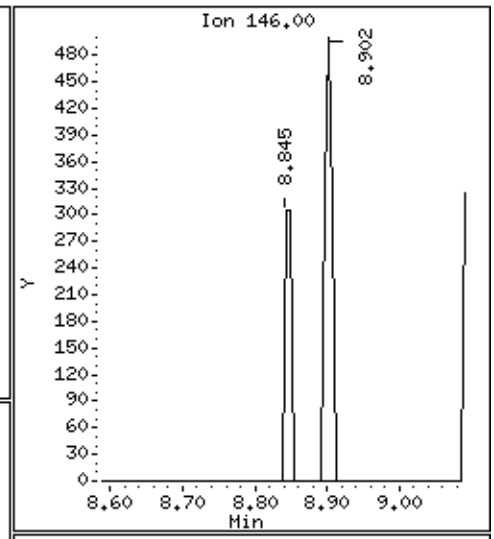
Concentration: 0.242 ppb

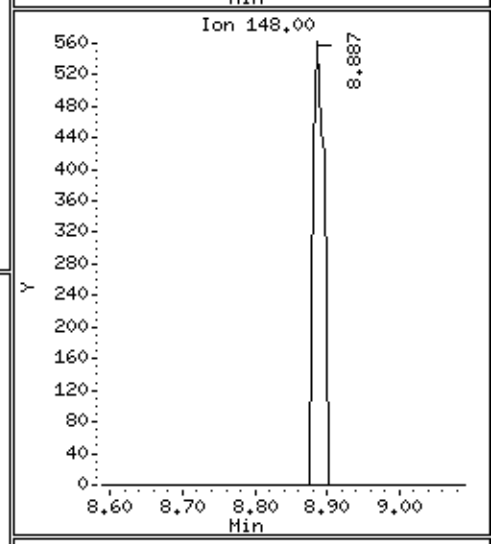


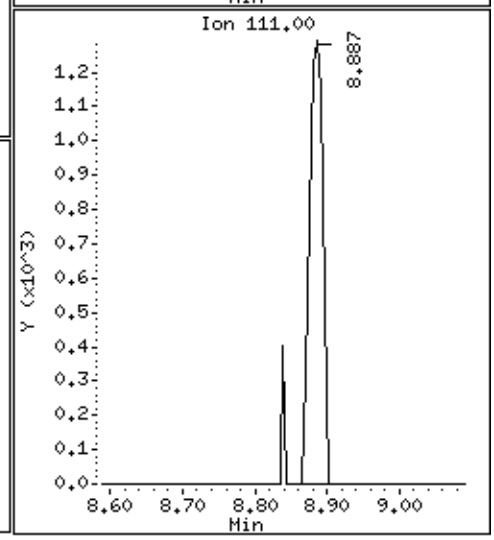












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

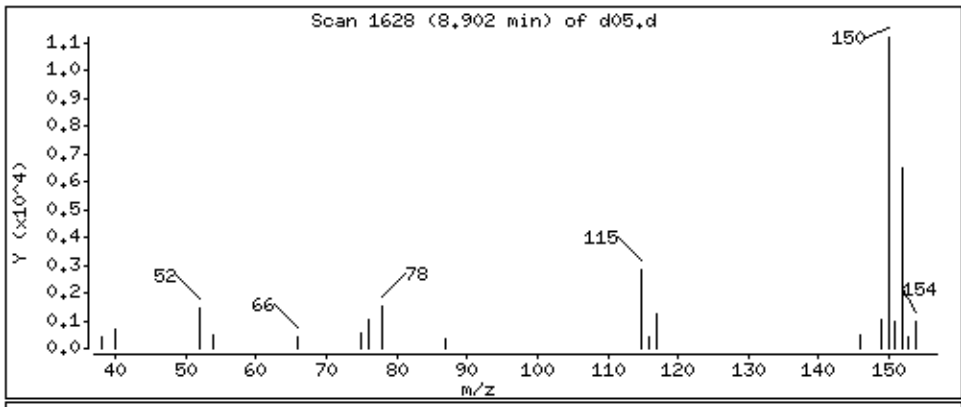
Operator: grm

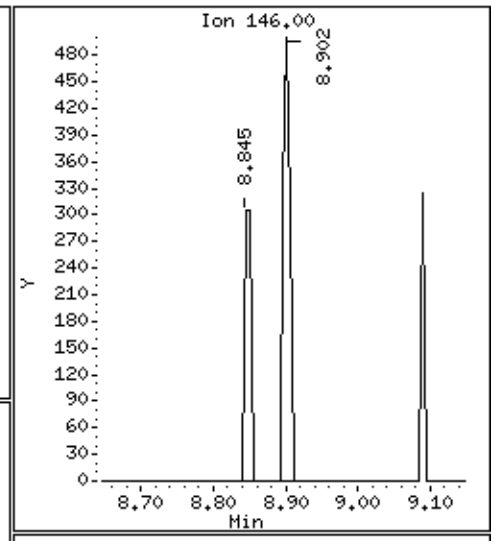
Column phase: DB-624

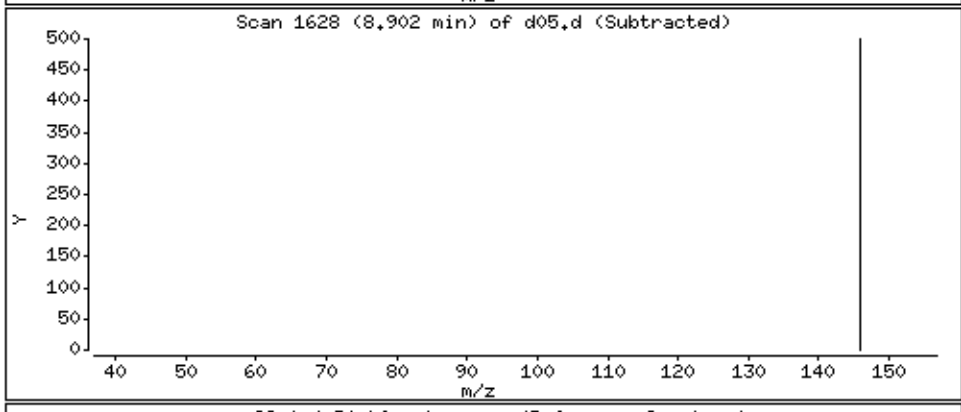
Column diameter: 0.18

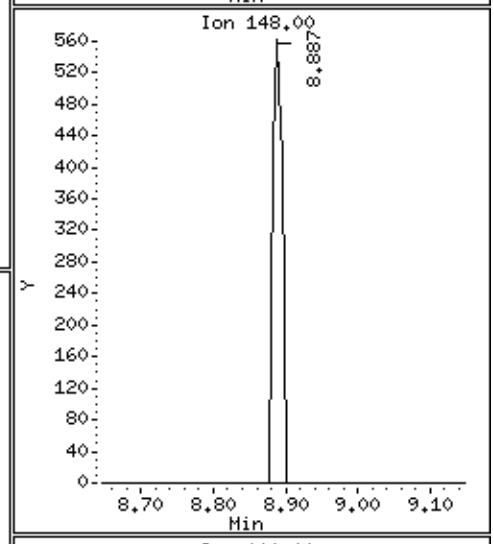
92 1,4-Dichlorobenzene

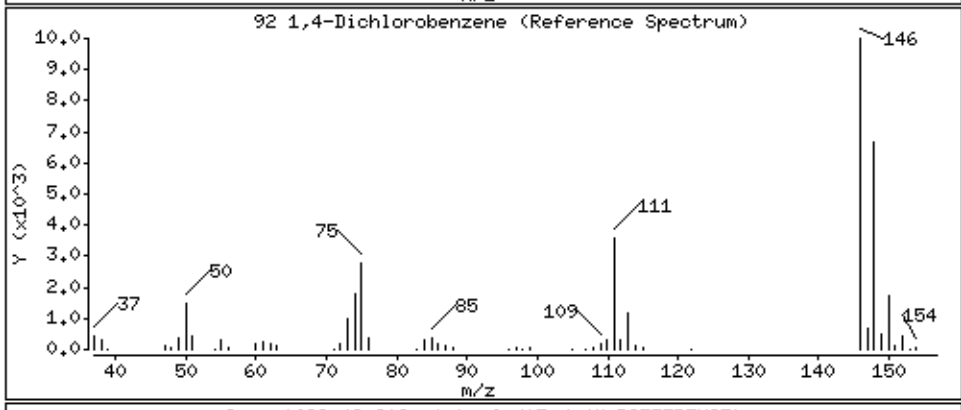
Concentration: 0.447 ppb

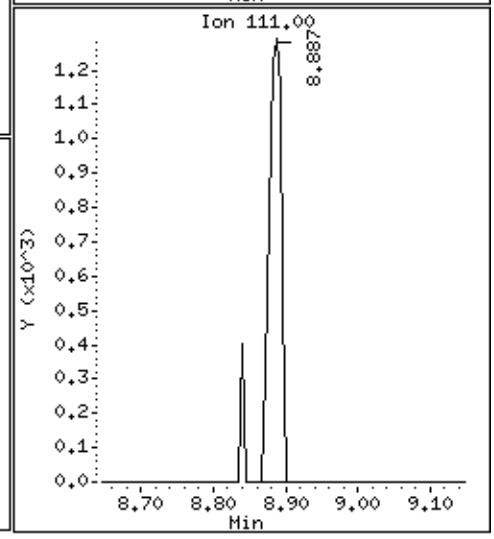


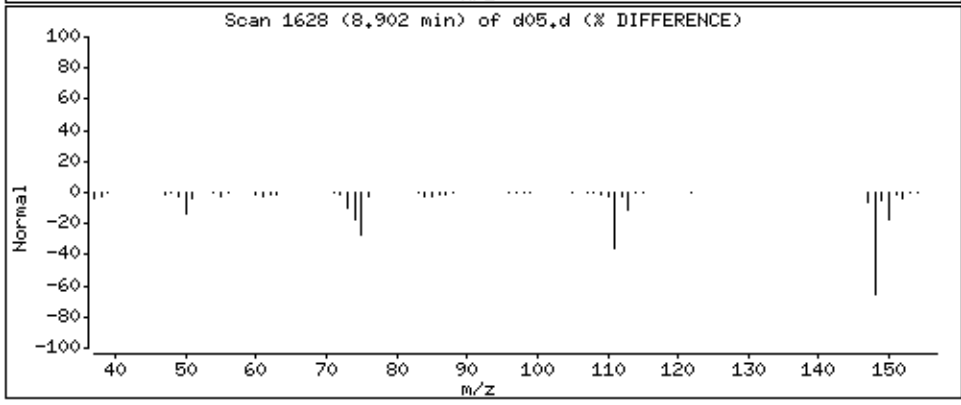












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d05.d

Date : 18-MAR-2016 02:55

Client ID: MW-0101-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212002x5

Purge Volume: 5.0

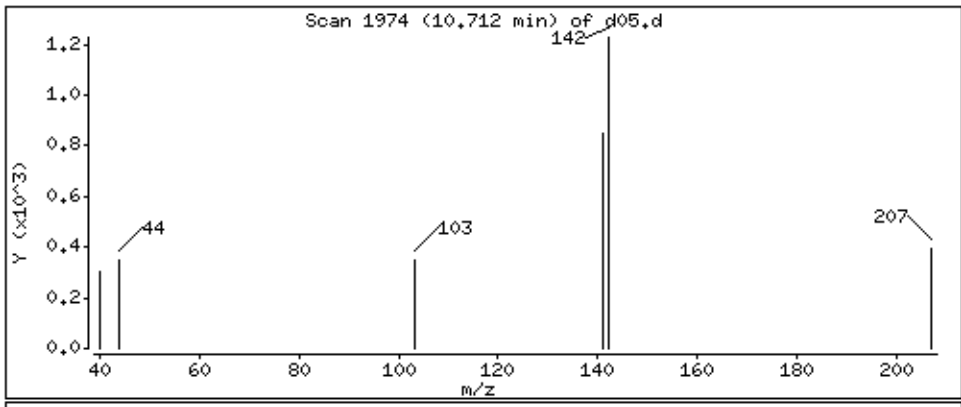
Operator: grm

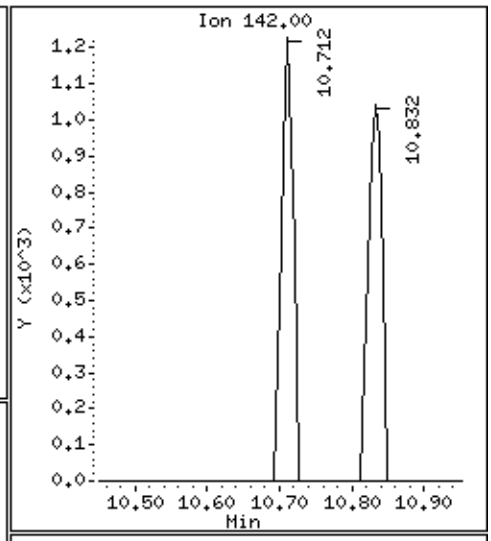
Column phase: DB-624

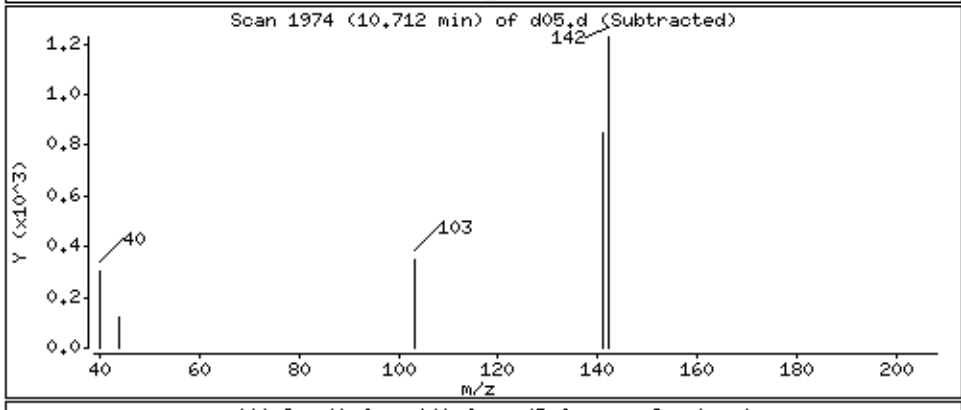
Column diameter: 0.18

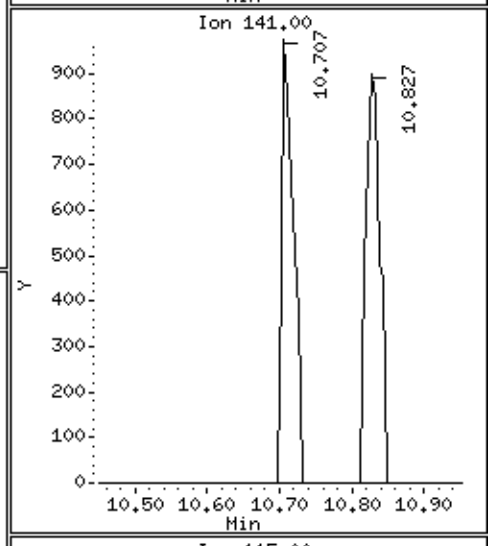
100 2,methyl-naphthalene

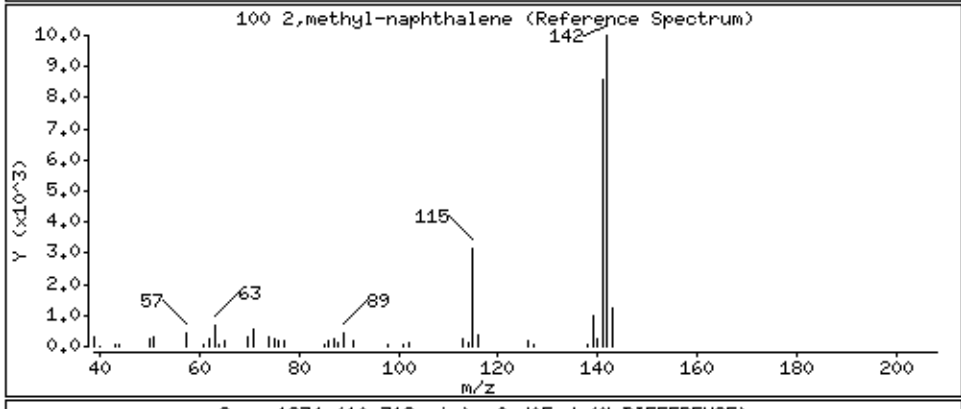
Concentration: 1.88 ppb

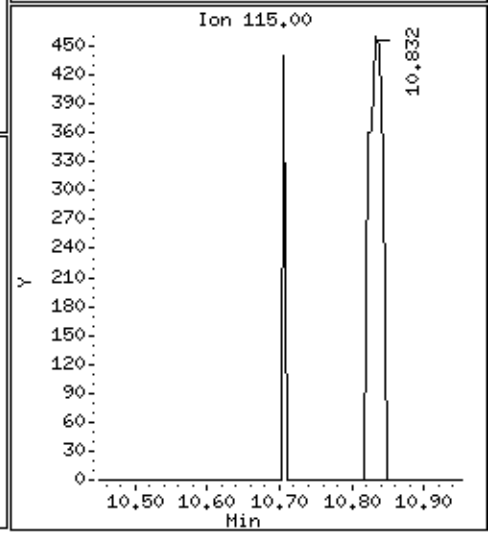


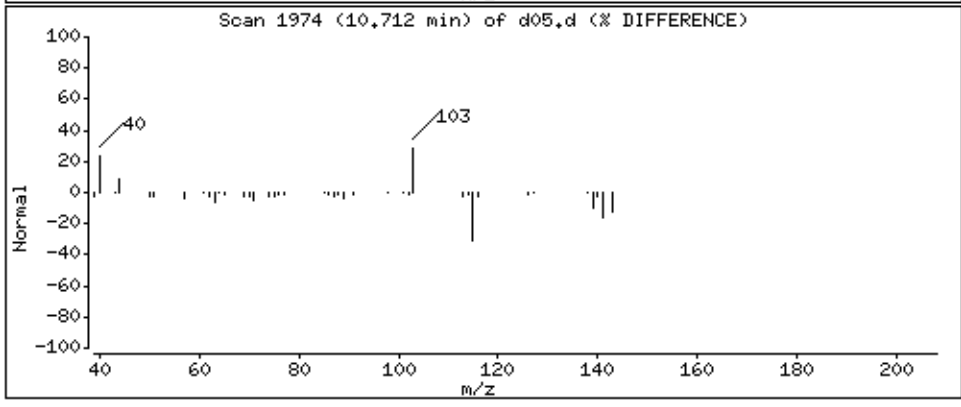












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d05.d
Injection Date: 18-MAR-2016 02:55
Instrument: 50mv1b.i
Lab Sample ID: 50140212002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0102-S1U(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 21:38 Lab Sample ID: 50140212003

Date Analyzed: 03/17/2016 21:38 Lab File ID: B031716.B\B17.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	1010	
156-60-5	trans-1,2-Dichloroethene	114	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0102-S1U(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 21:38 Lab Sample ID: 50140212003

Date Analyzed: 03/17/2016 21:38 Lab File ID: B031716.B\B17.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	17.0	
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d
Lab Smp Id: 50140212003 Client Smp ID: MW-0102-S1U(030916)
Inj Date : 17-MAR-2016 21:38
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212003x5
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 68
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	9259	3.39632	17.0	
	7 Diethyl ether	74	1.497	1.496	(0.354)	496	0.69703	3.48	
	11 1,1-Dichloroethene	96	1.627	1.627	(0.385)	949	0.68977	3.45	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	1363	0.80316	4.02(Q)	
	22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	35675	22.7376	114	
	24 n-Hexane	57	2.260	2.260	(0.534)	3667	1.32892	6.64	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	329934	201.940	1010	
$	38 Dibromofluoromethane (S)	113	3.400	3.395	(0.804)	81857	53.0353	53.0	
*	46 Fluorobenzene (IS)	96	4.232	4.231	(1.000)	297224	50.0000		
	47 Trichloroethene	95	4.682	4.681	(1.106)	802873	505.421	2530	
$	57 Toluene-d8	98	6.073	6.072	(0.822)	285489	48.4418	48.4	
	58 Toluene	91	6.152	6.146	(0.832)	3551	0.49125	2.46	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	226973	50.0000		
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	107860	52.3487	52.3	
	87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	1079	0.15409	0.770	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.886	(1.000)	121243	50.0000		
	100 2,methyl-naphthalene	142	10.712	10.712	(1.205)	2037	0.49035	2.45	

QC Flag Legend

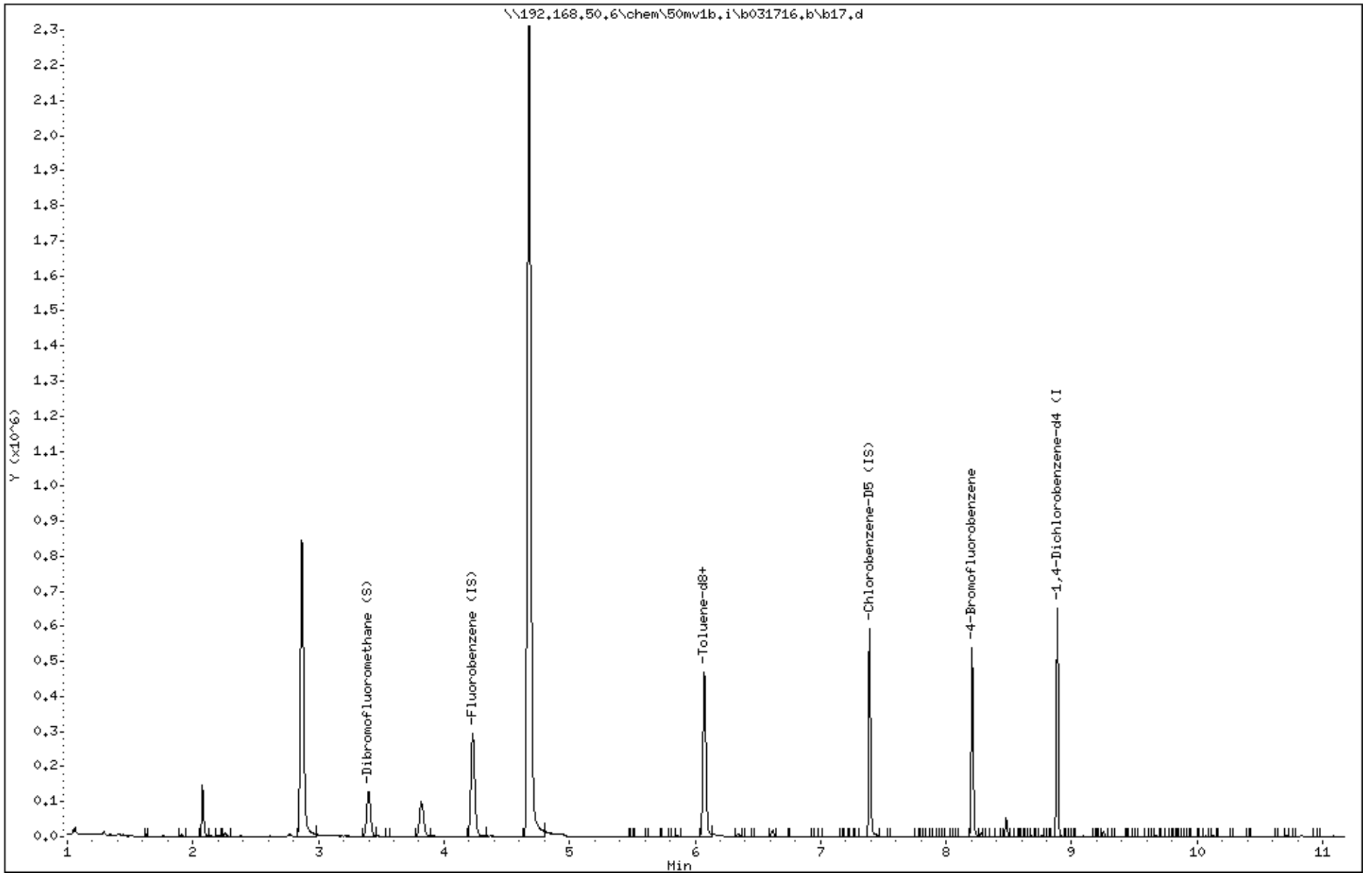
Q - Qualifier signal failed the ratio test.

QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d
Date : 17-MAR-2016 21:38
Client ID: MW-0102-S1U(030916)
Instrument: 50mv1b.i
Sample Info: 50140212003x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

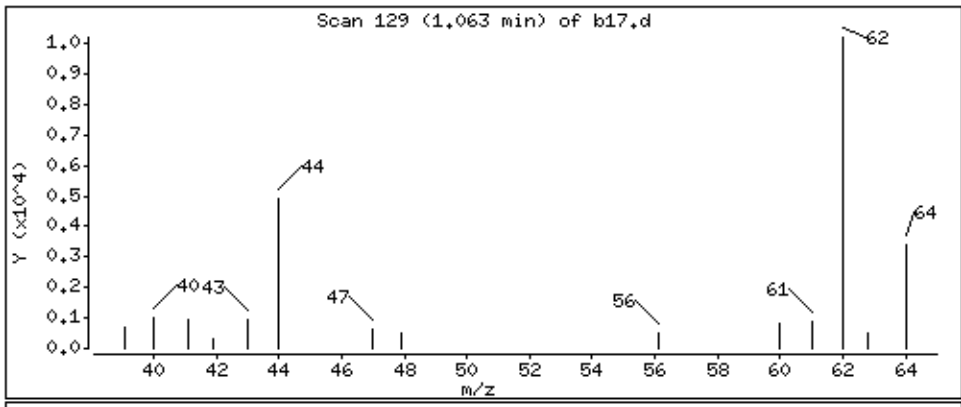
Operator: grm

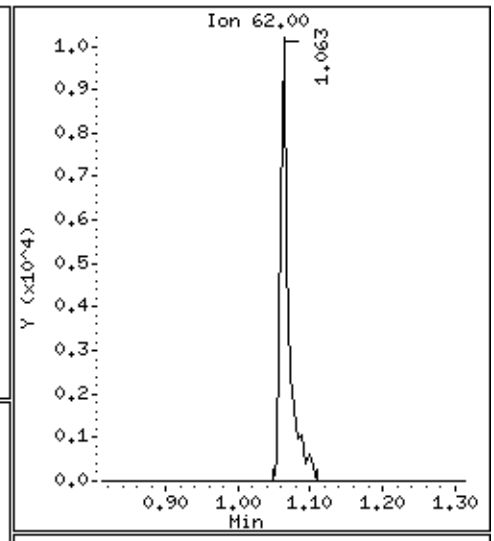
Column phase: DB-624

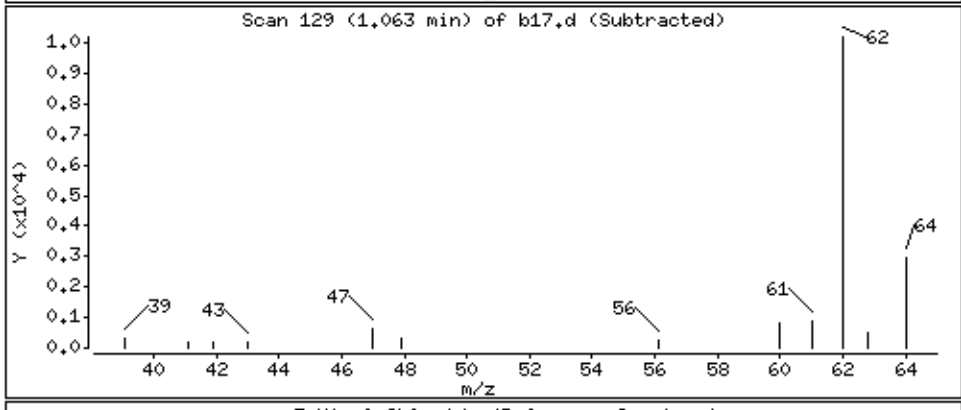
Column diameter: 0.18

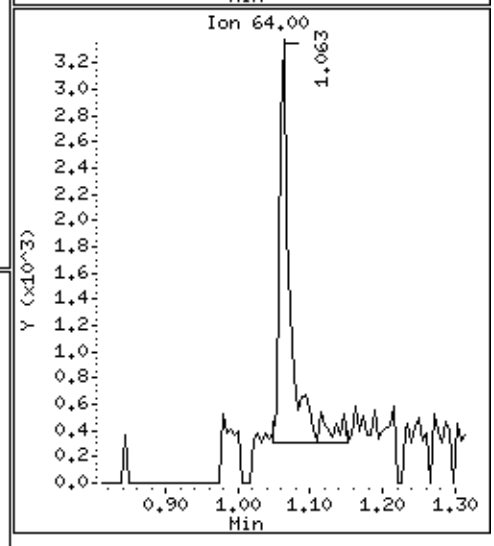
3 Vinyl Chloride

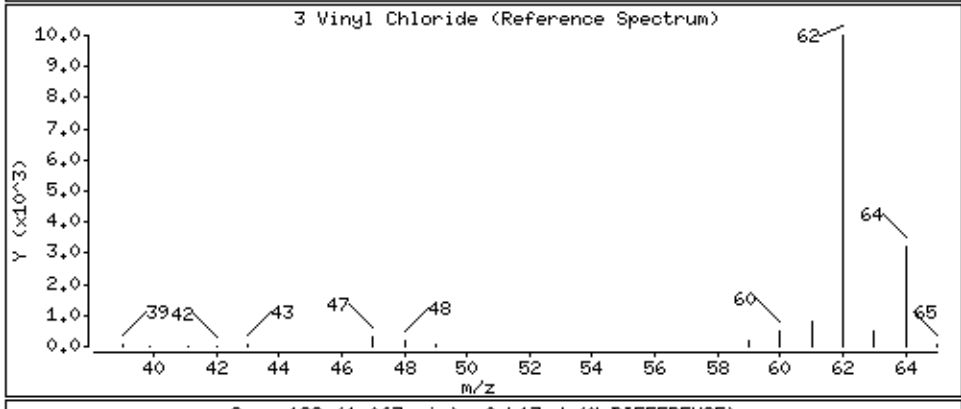
Concentration: 17.0 ppb

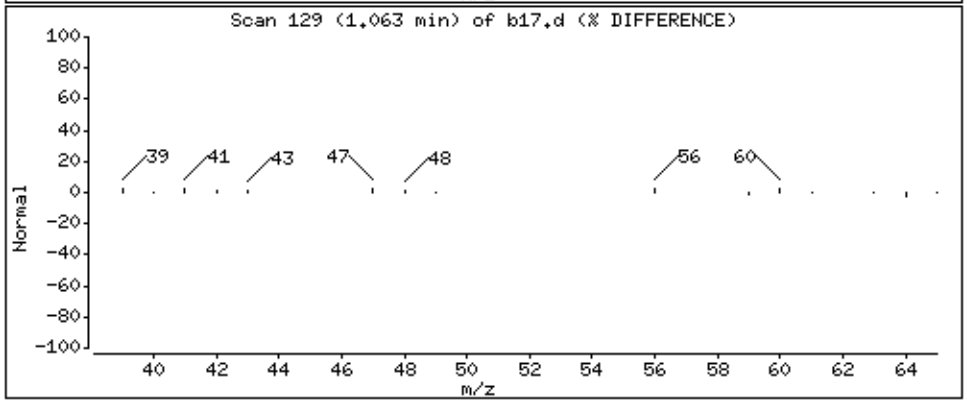












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

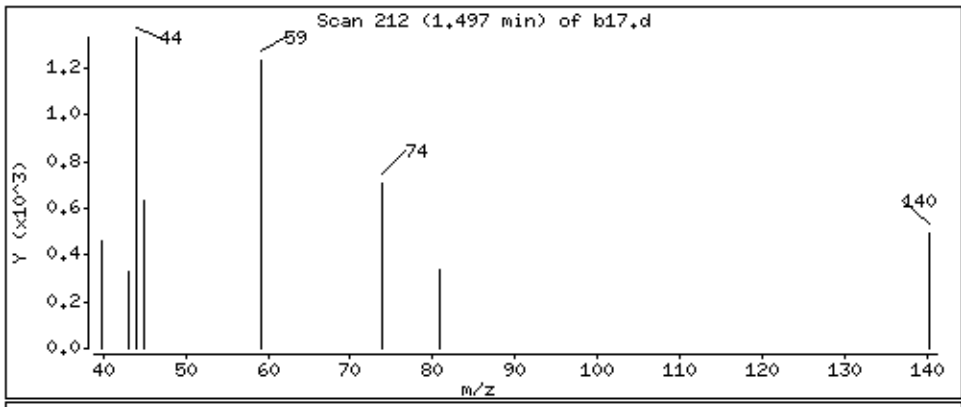
Operator: grm

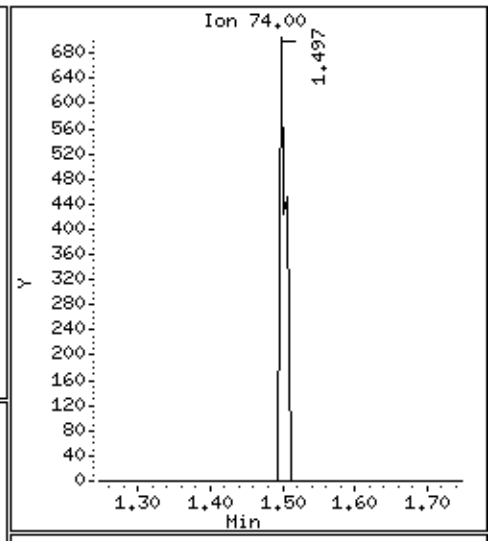
Column phase: DB-624

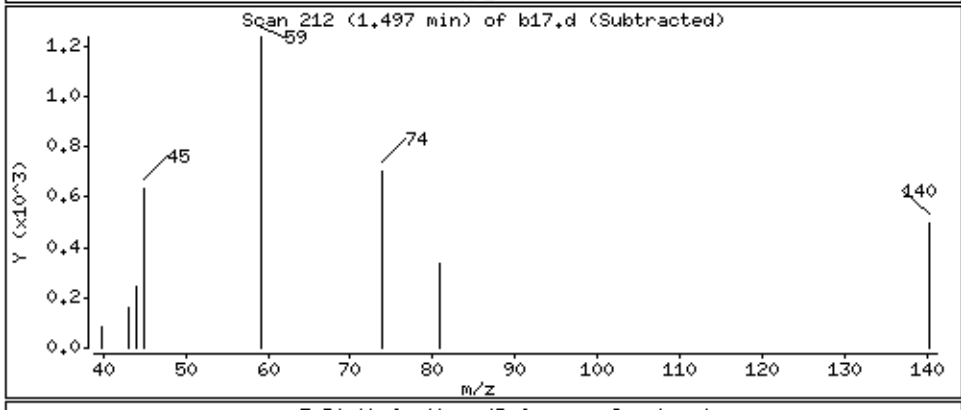
Column diameter: 0.18

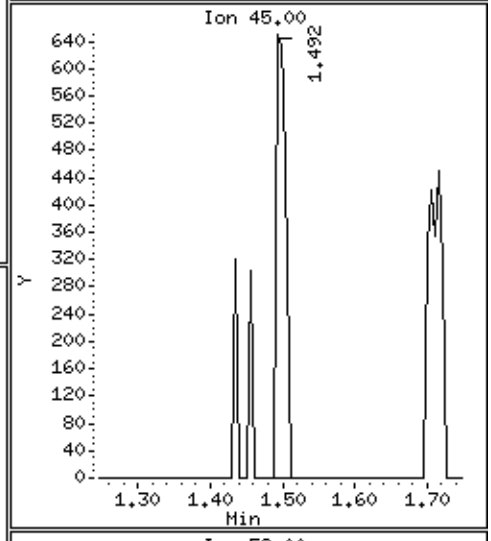
7 Diethyl ether

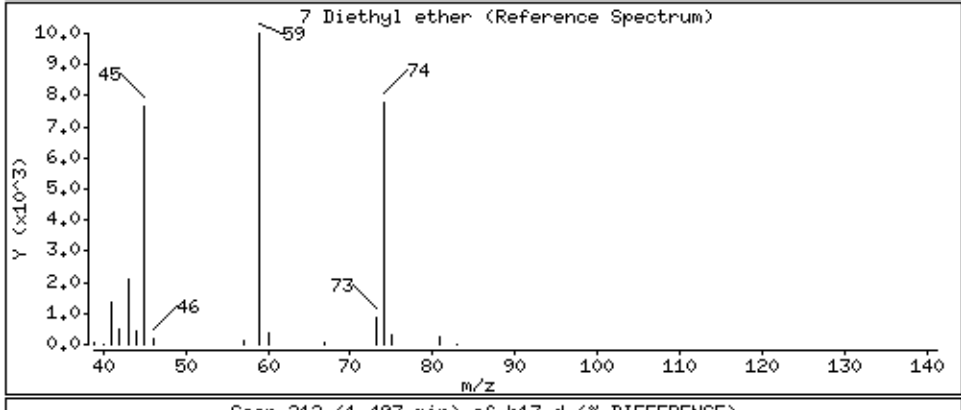
Concentration: 3.48 ppb

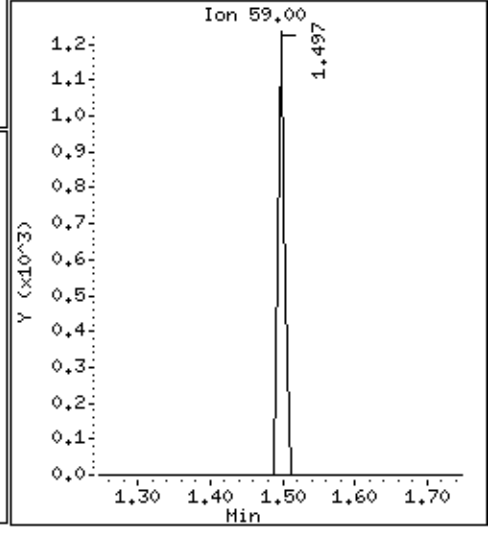


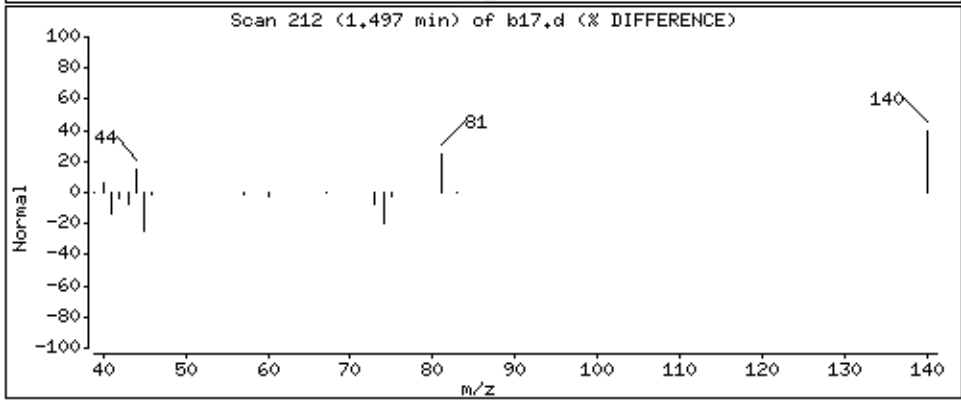












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

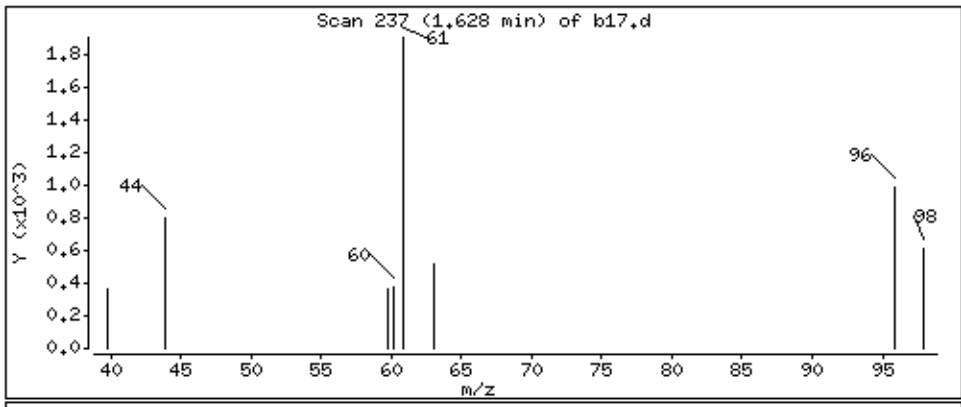
Operator: grm

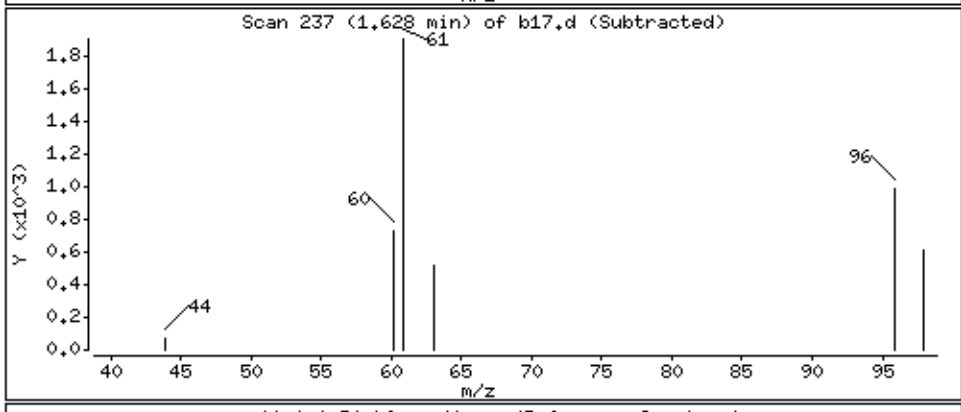
Column phase: DB-624

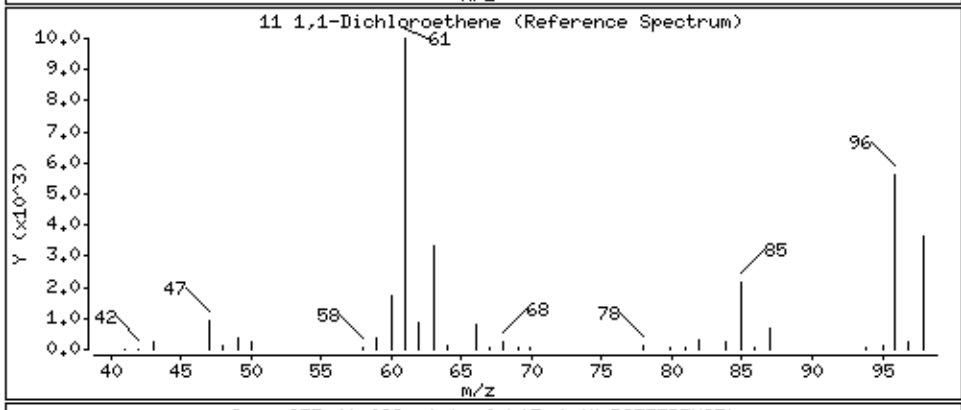
Column diameter: 0.18

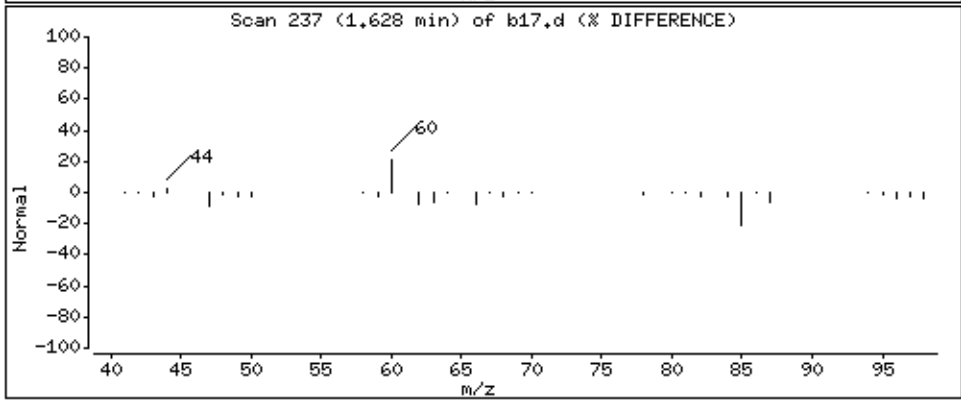
11 1,1-Dichloroethene

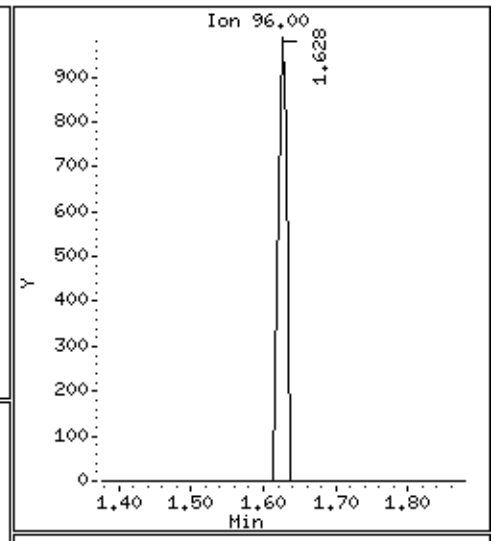
Concentration: 3.45 ppb

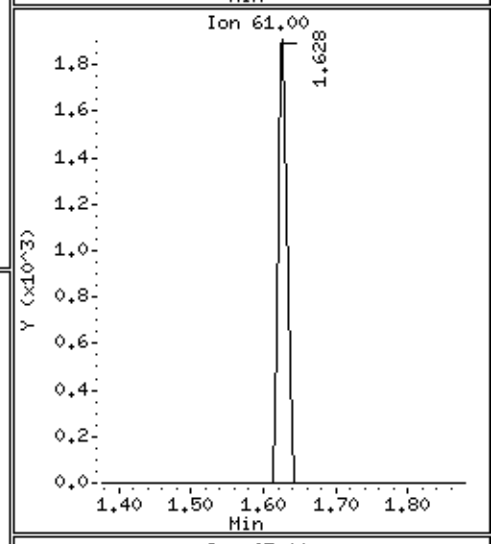


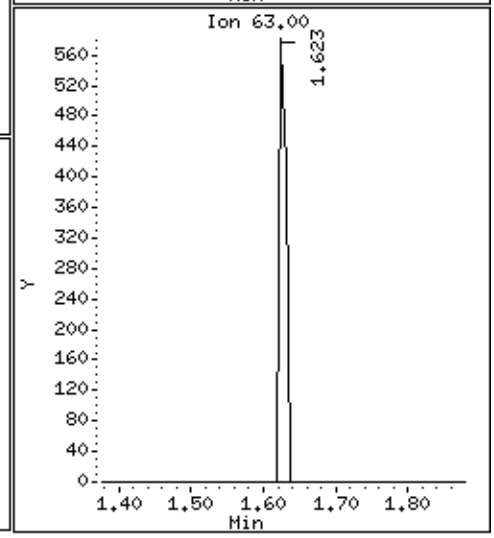












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

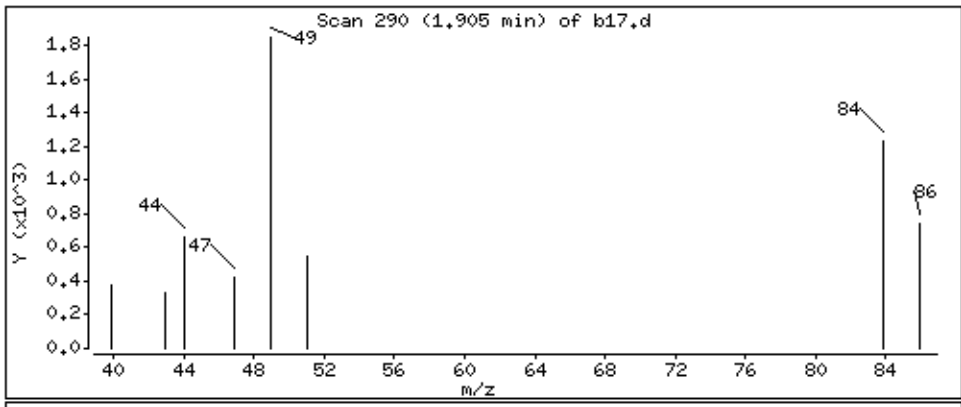
Operator: grm

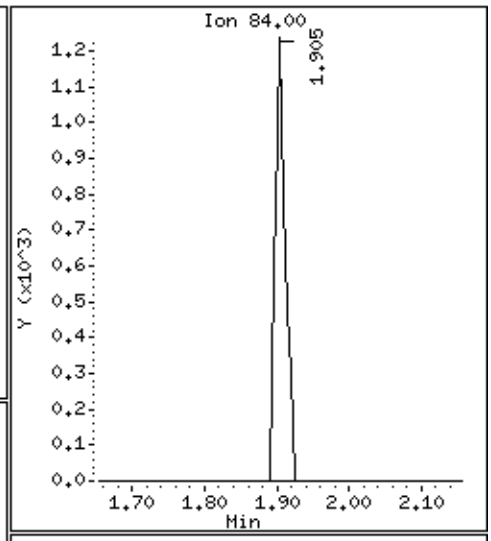
Column phase: DB-624

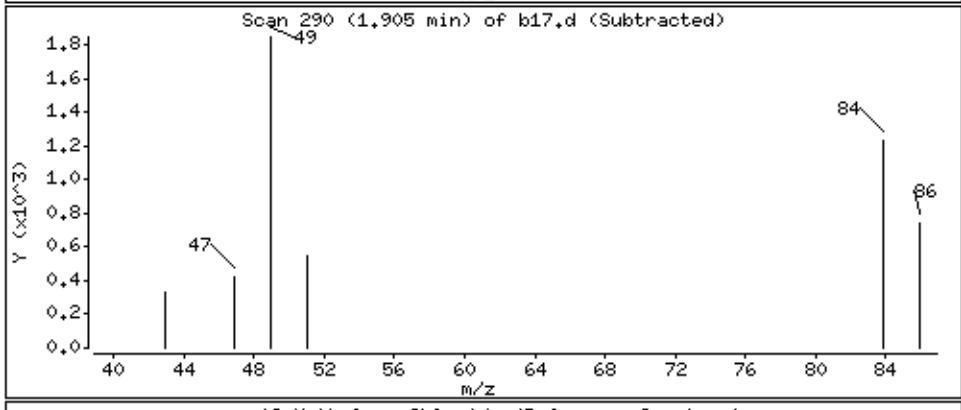
Column diameter: 0.18

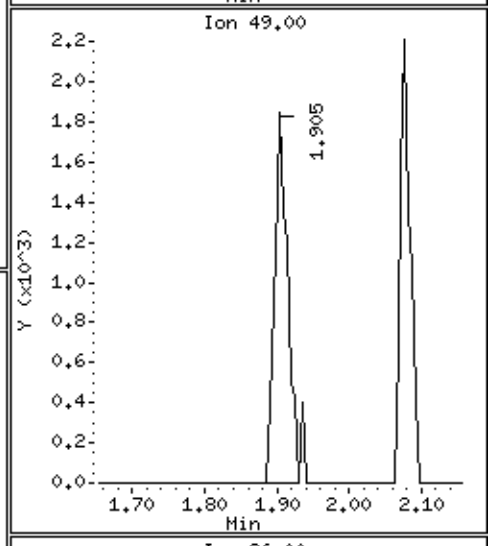
18 Methylene Chloride

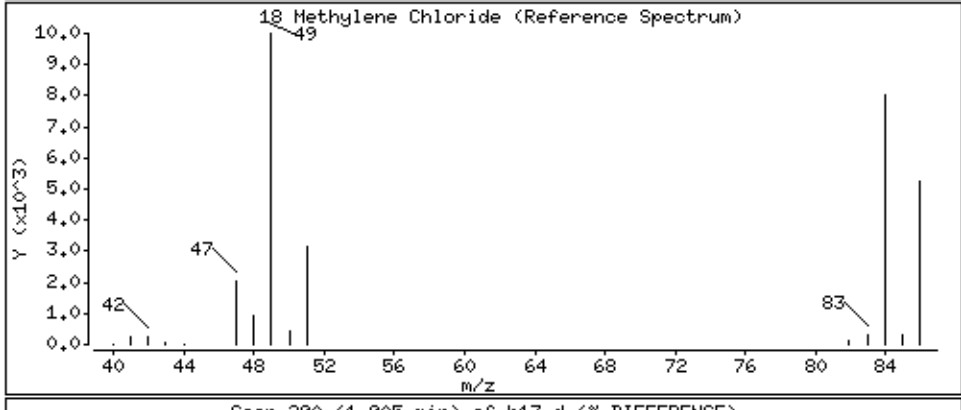
Concentration: 4.02 ppb

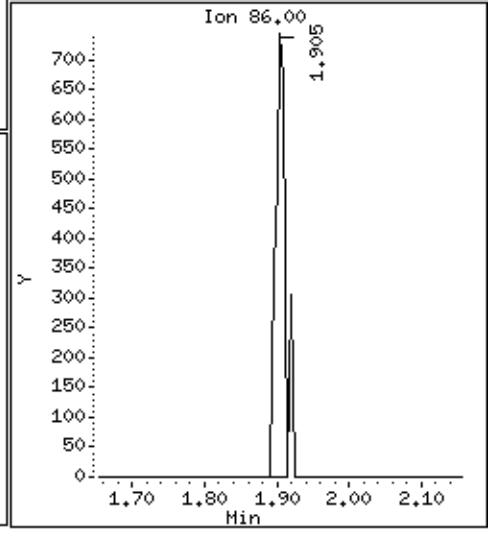


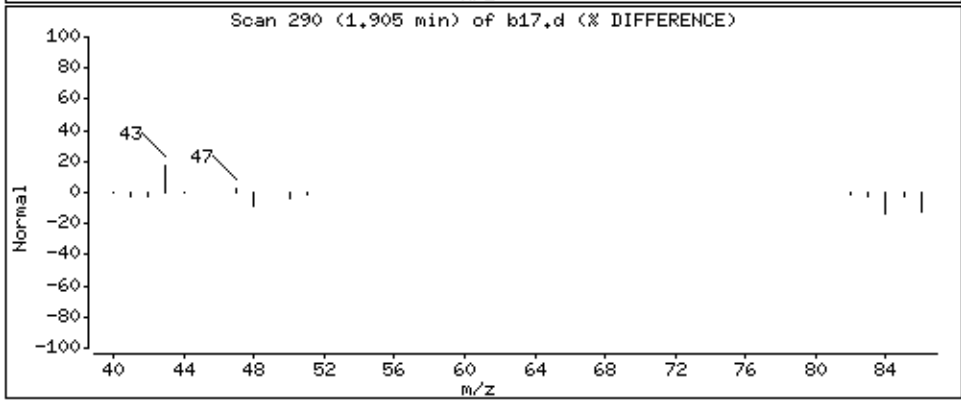












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

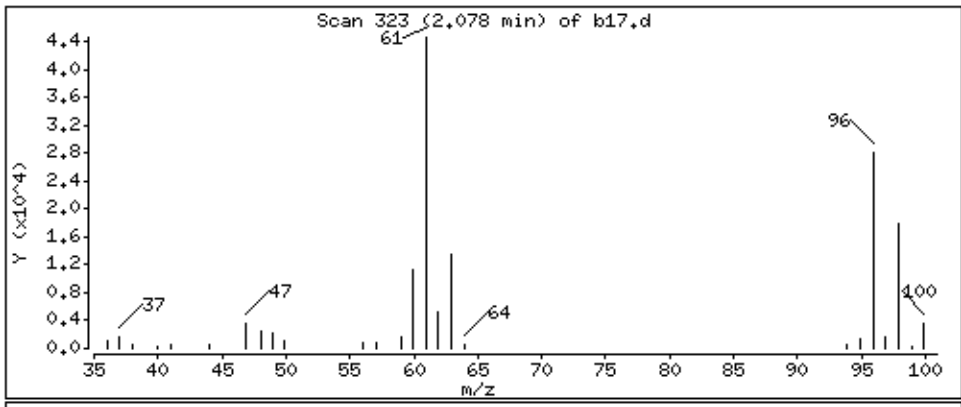
Operator: grm

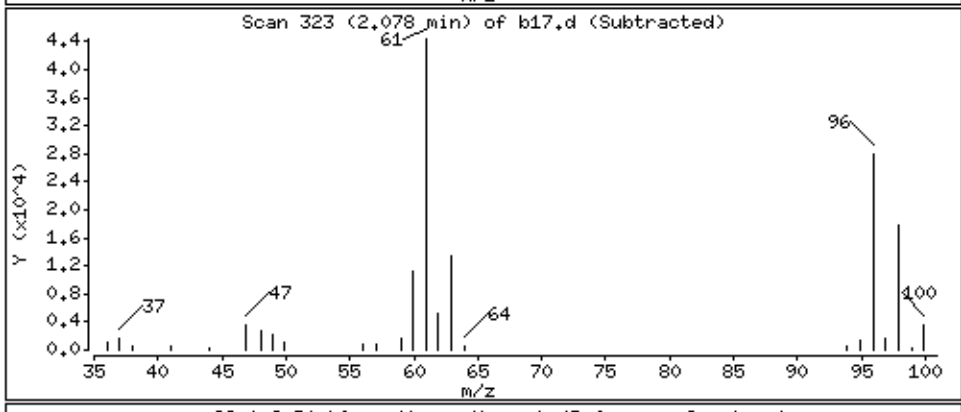
Column phase: DB-624

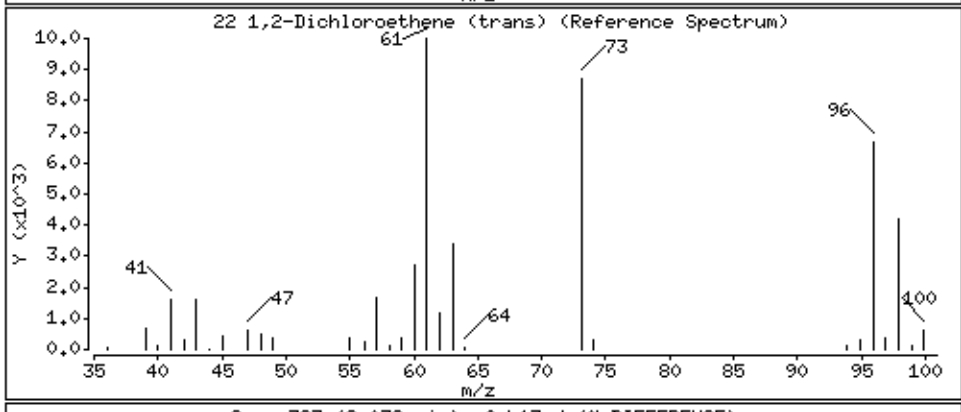
Column diameter: 0.18

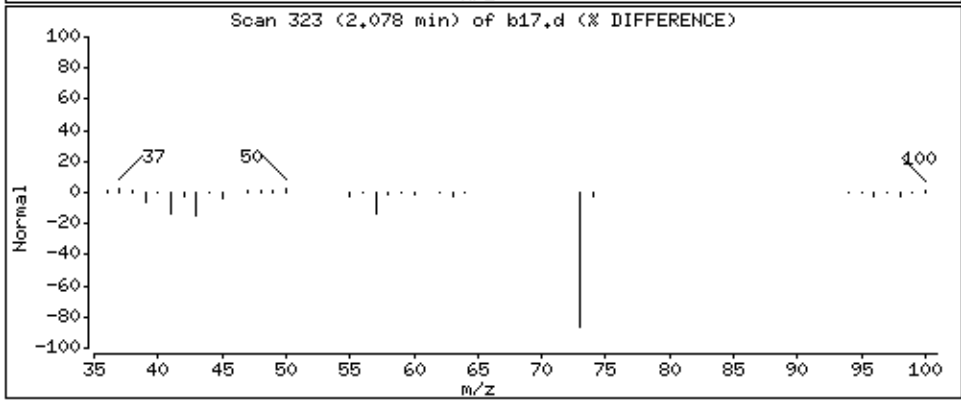
22 1,2-Dichloroethene (trans)

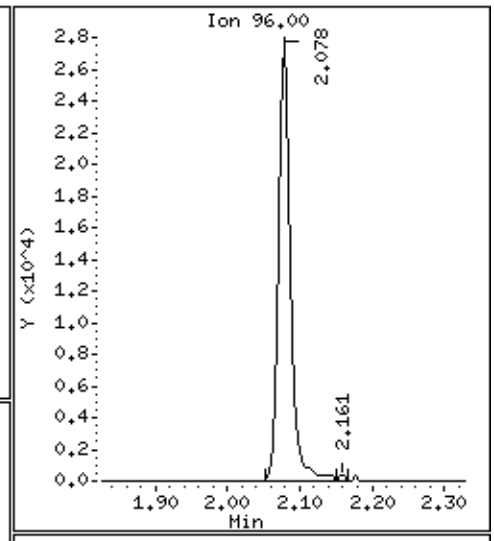
Concentration: 114 ppb

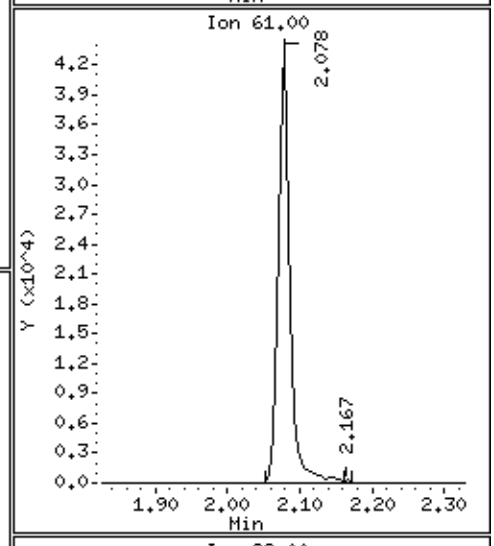


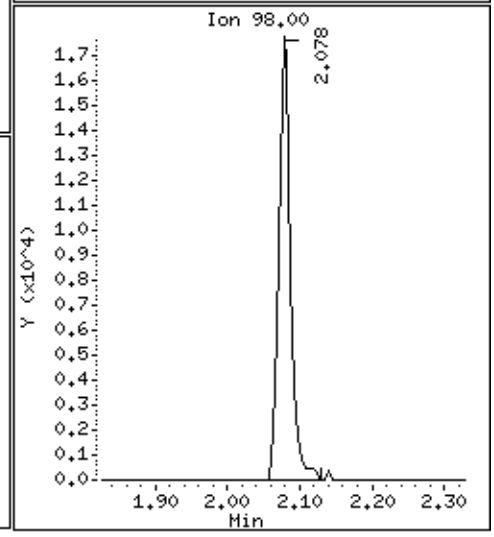












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

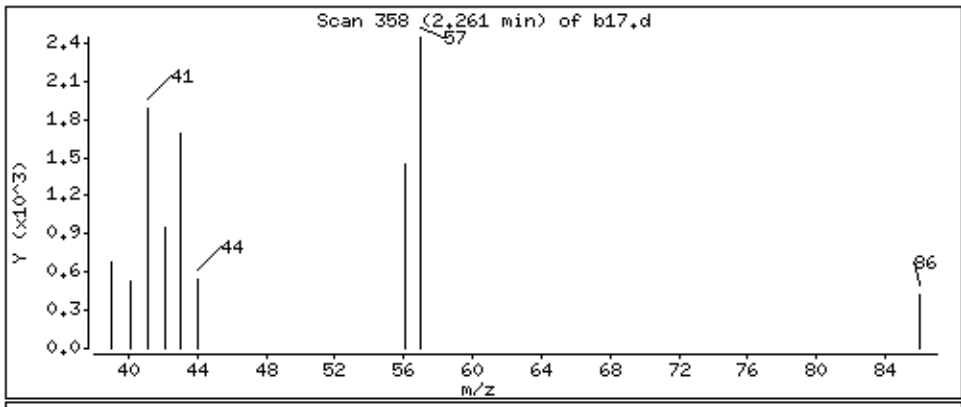
Operator: grm

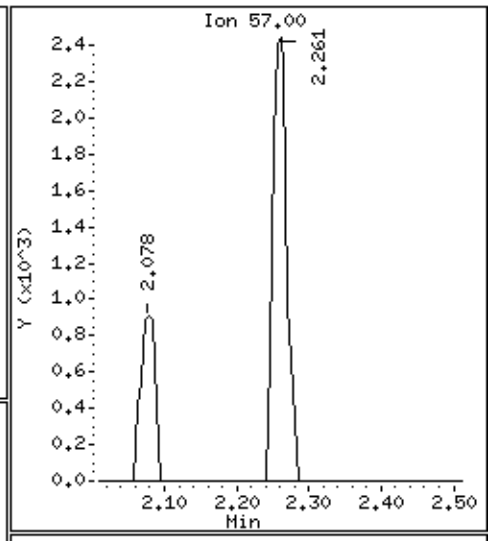
Column phase: DB-624

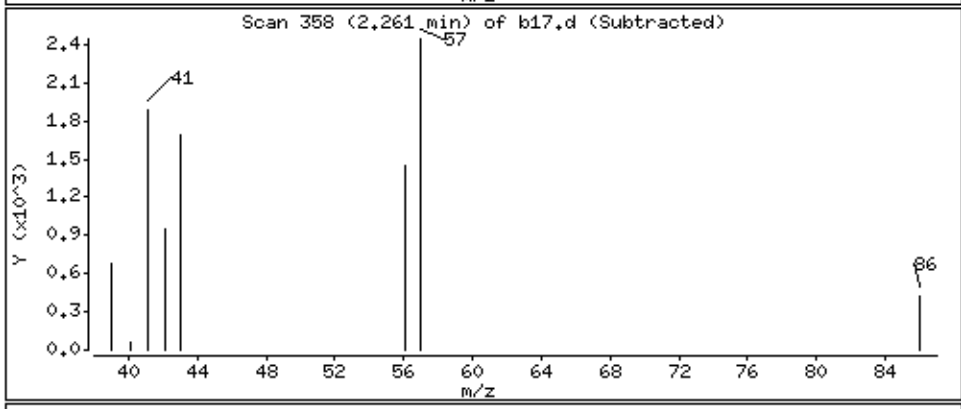
Column diameter: 0.18

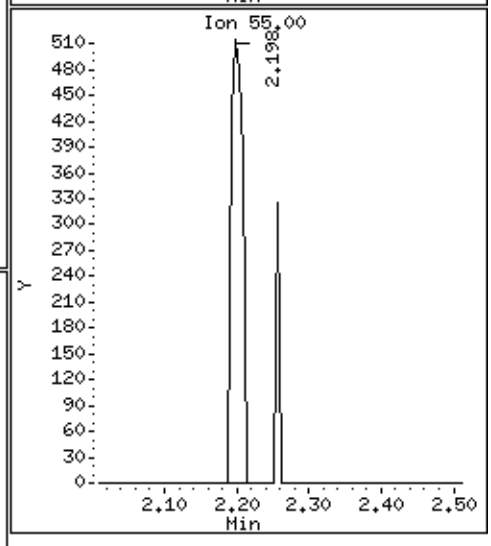
24 n-Hexane

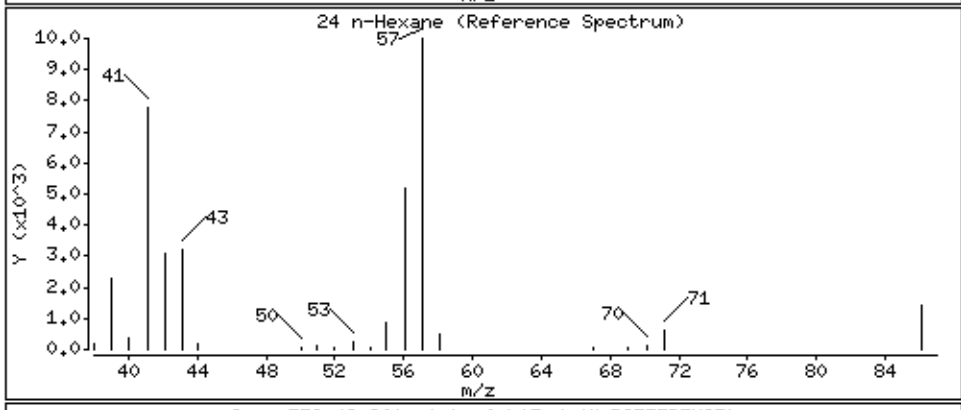
Concentration: 6.64 ppb

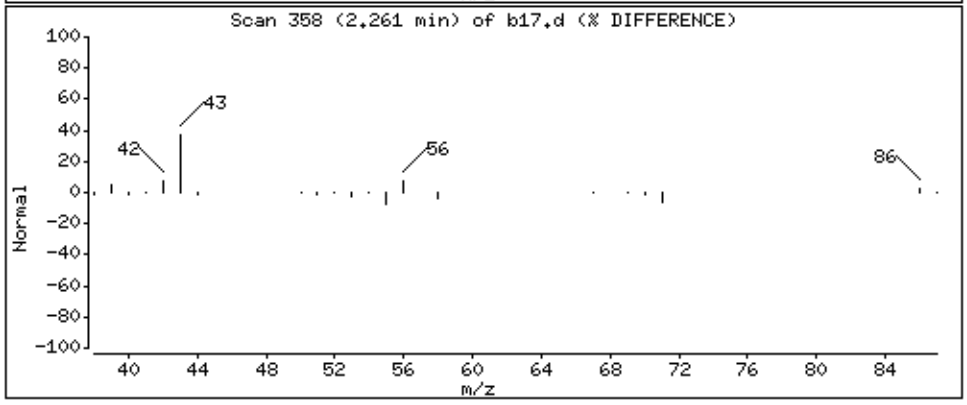












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

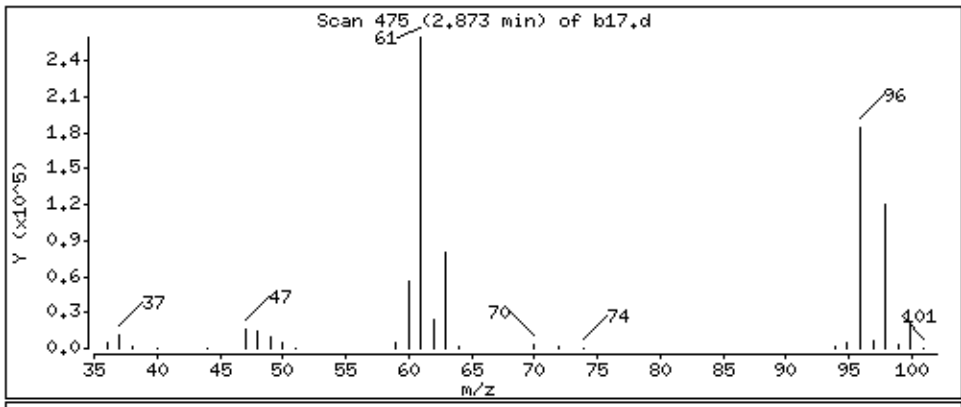
Operator: grm

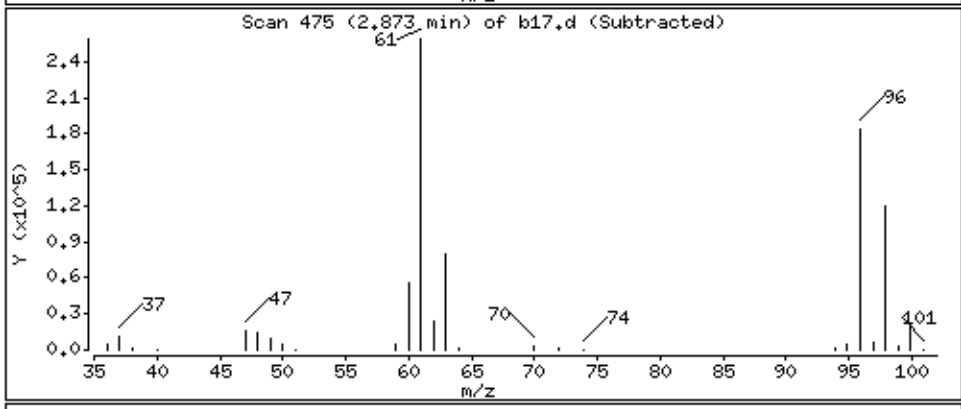
Column phase: DB-624

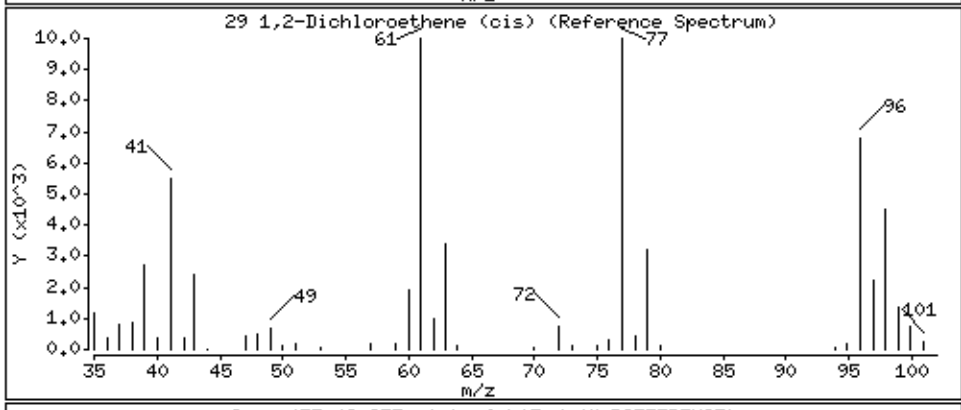
Column diameter: 0.18

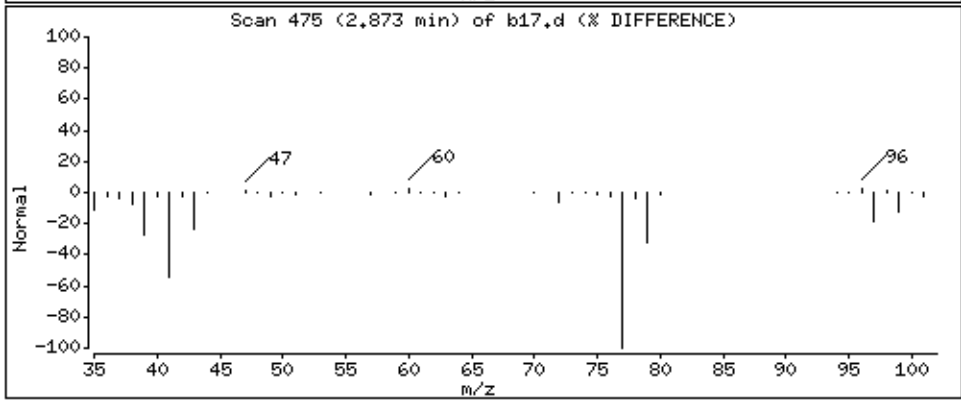
29 1,2-Dichloroethene (cis)

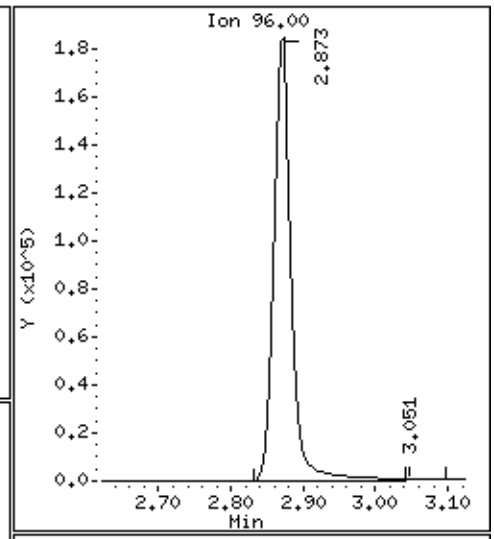
Concentration: 1010 ppb

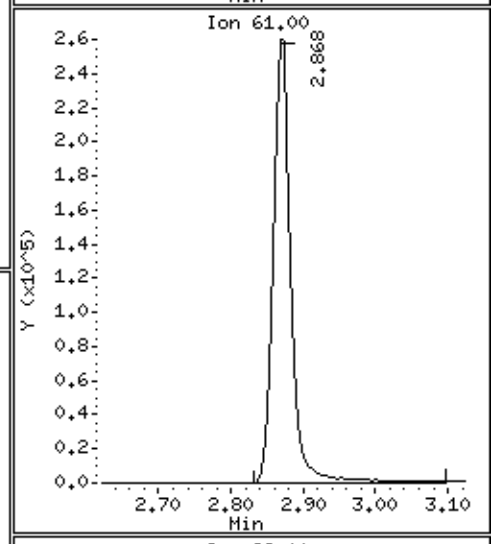


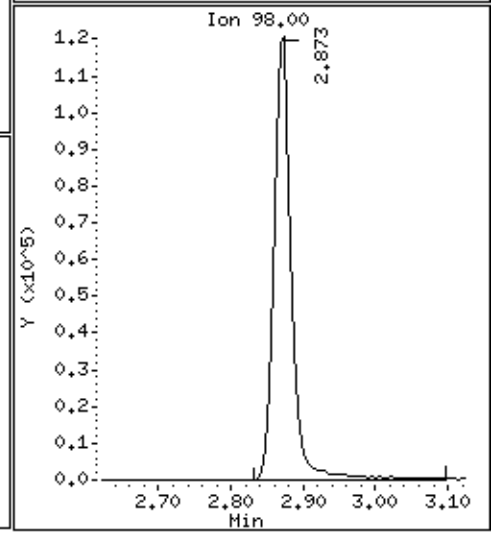












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

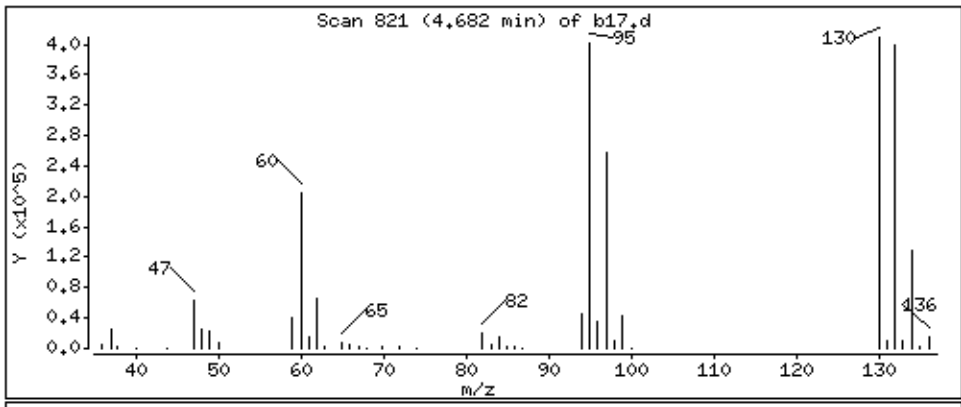
Operator: grm

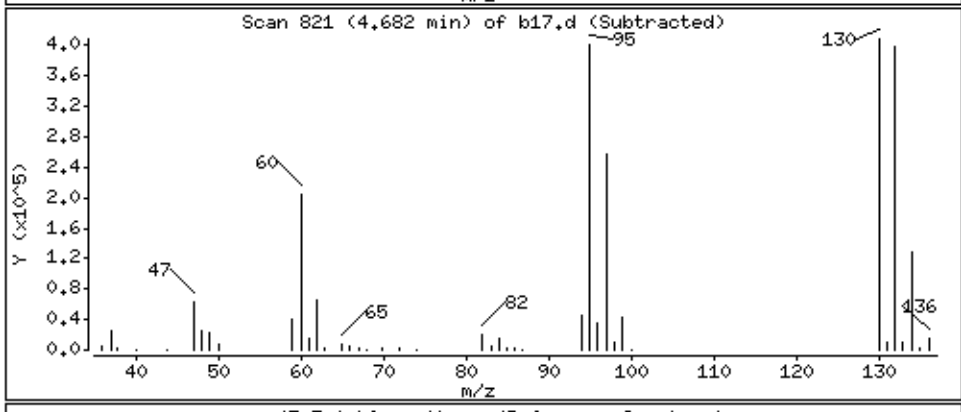
Column phase: DB-624

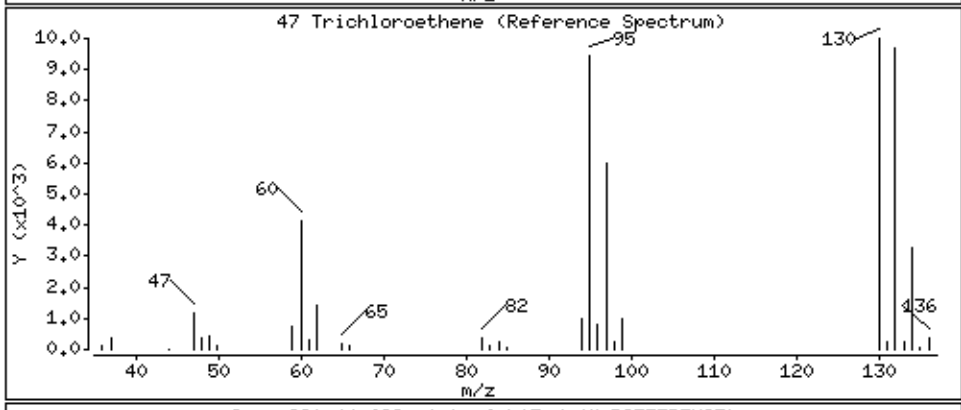
Column diameter: 0.18

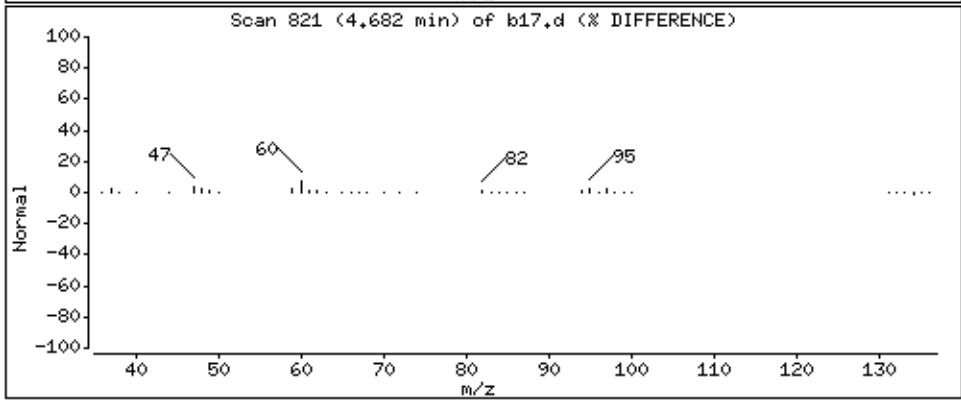
47 Trichloroethene

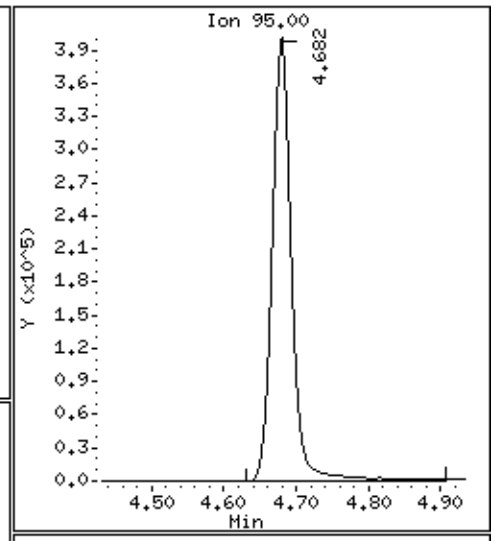
Concentration: 2530 ppb

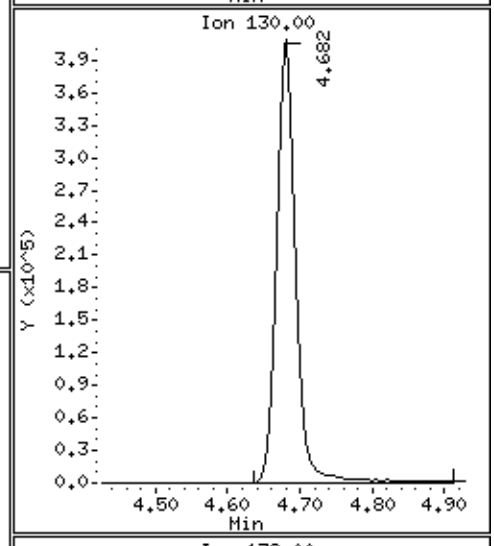


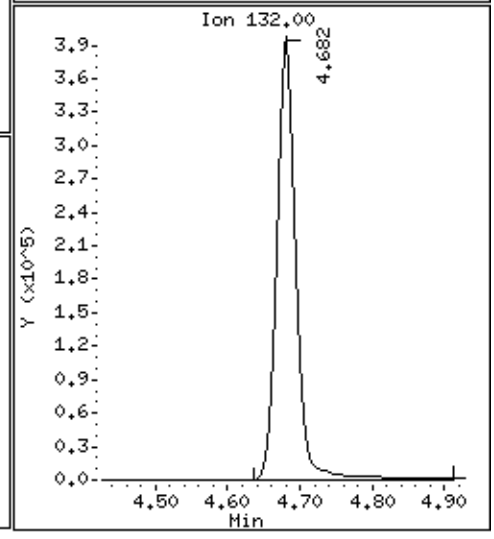












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

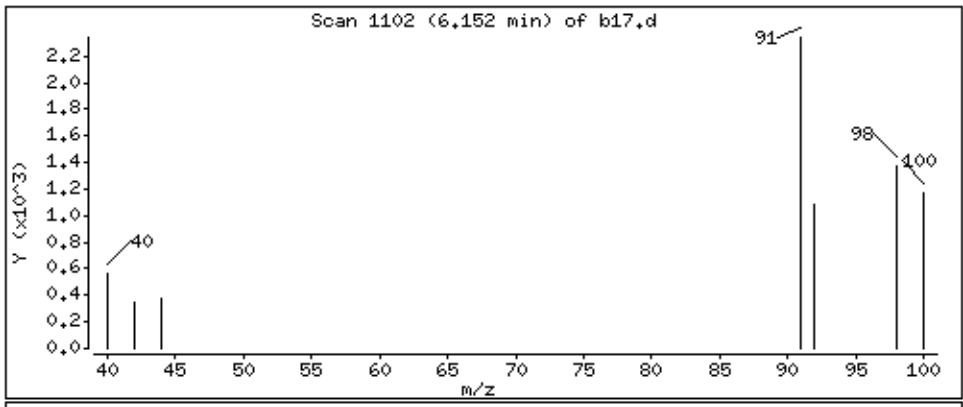
Operator: grm

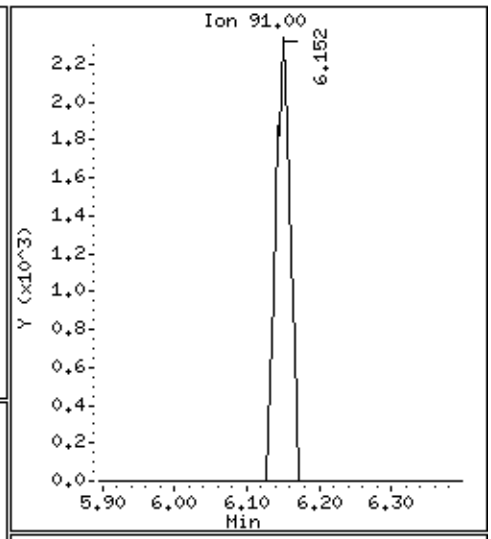
Column phase: DB-624

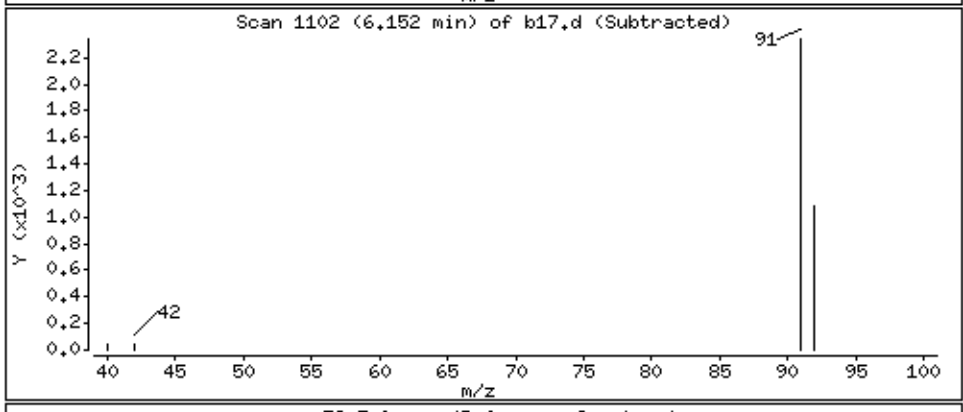
Column diameter: 0.18

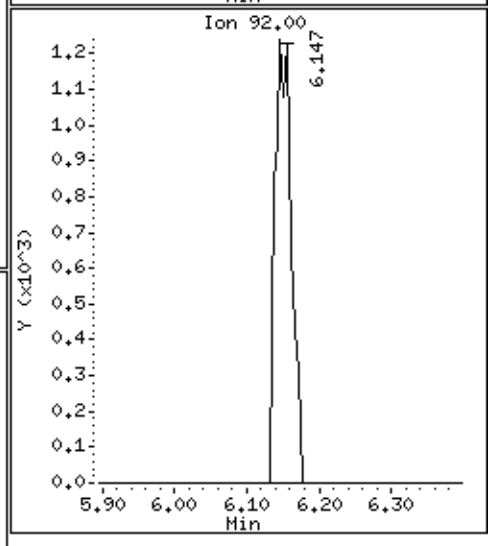
58 Toluene

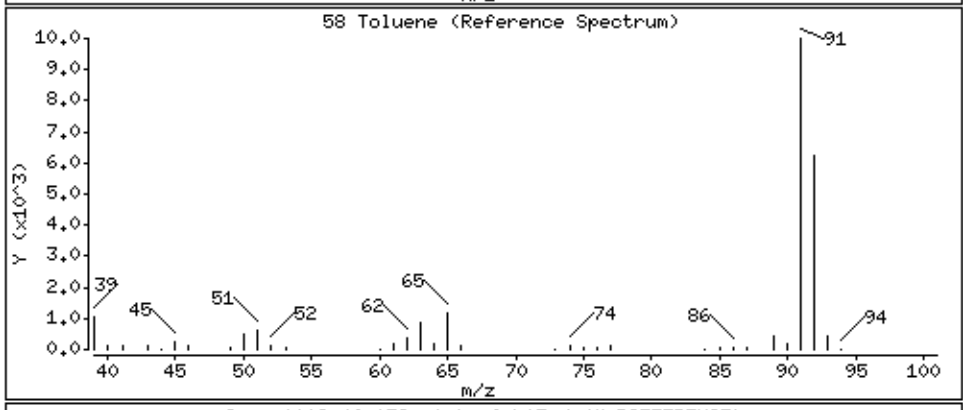
Concentration: 2.46 ppb

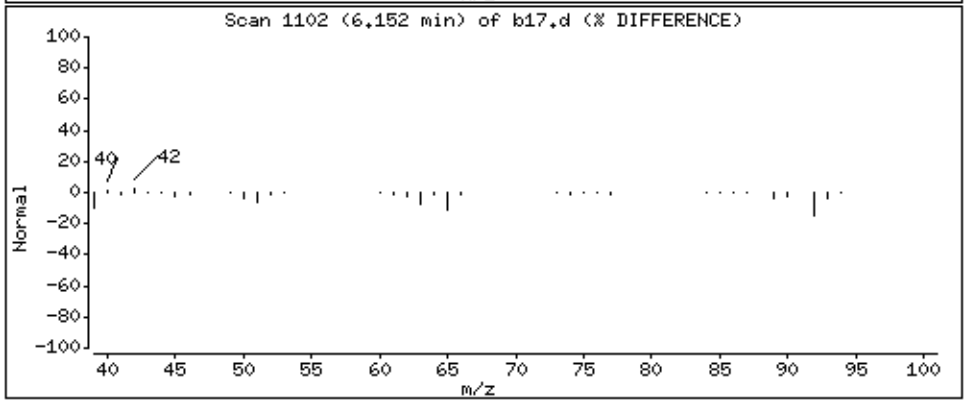












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

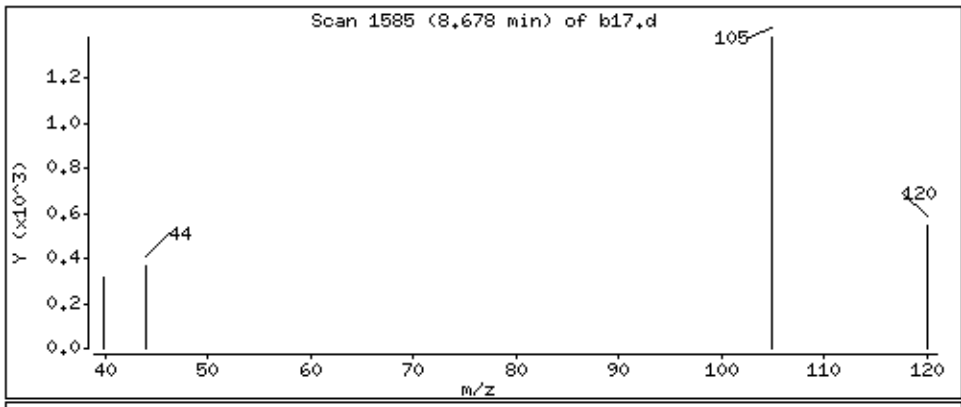
Operator: grm

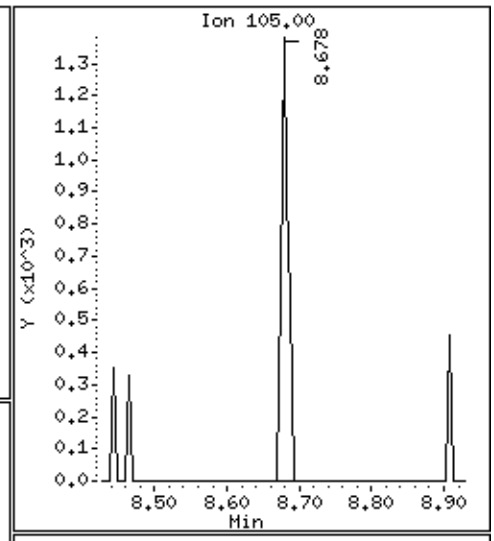
Column phase: DB-624

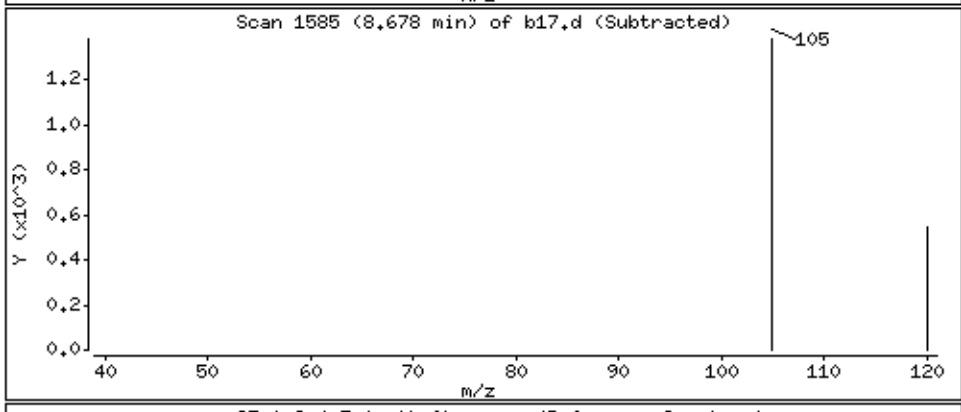
Column diameter: 0.18

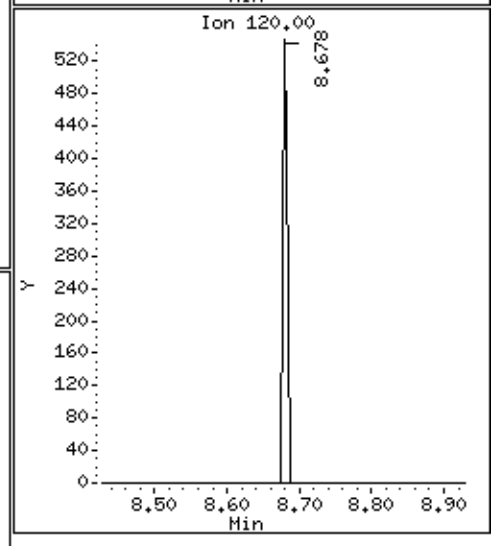
87 1,2,4-Trimethylbenzene

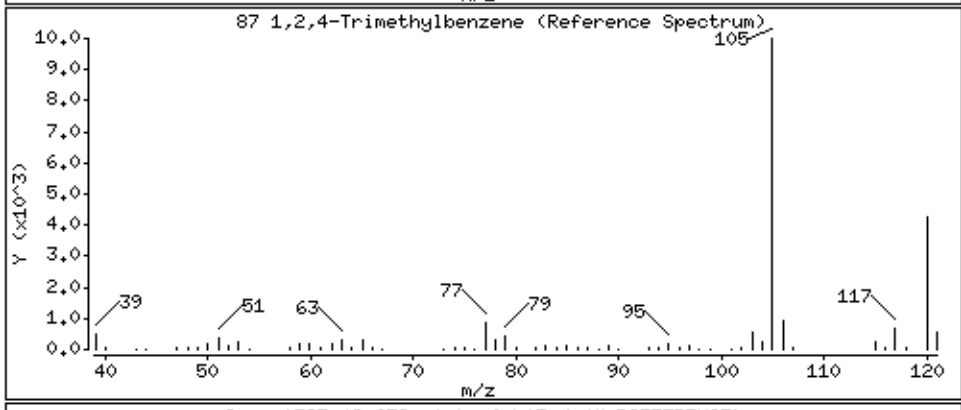
Concentration: 0.770 ppb

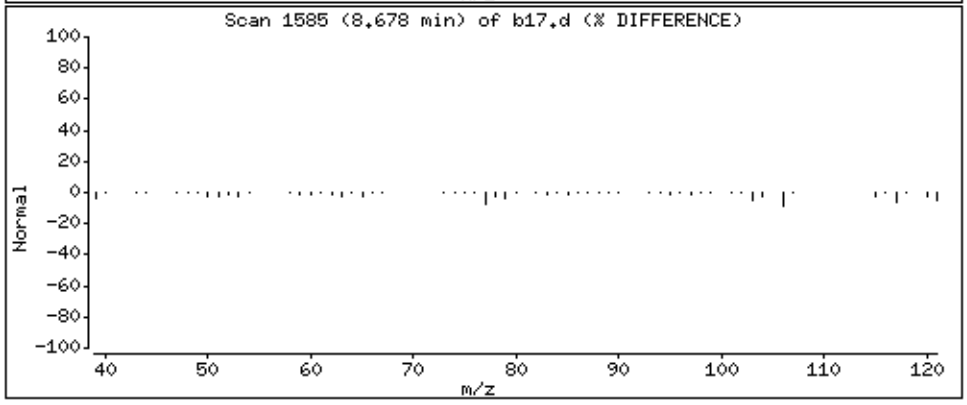












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b17.d

Date : 17-MAR-2016 21:38

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x5

Purge Volume: 5.0

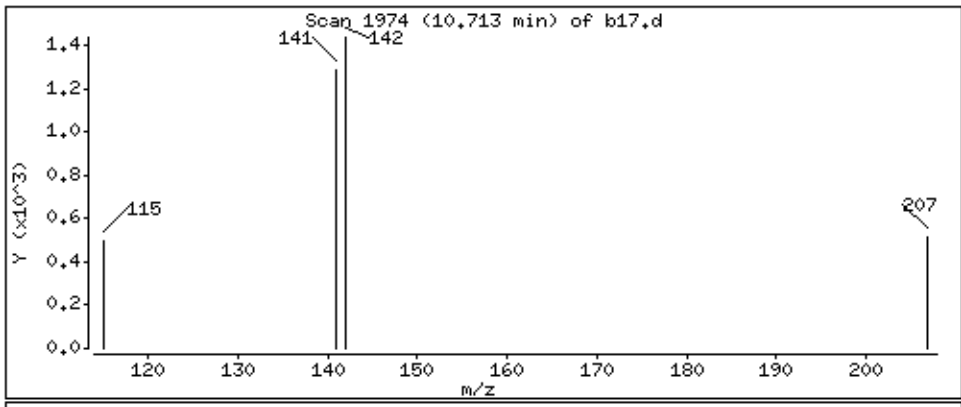
Operator: grm

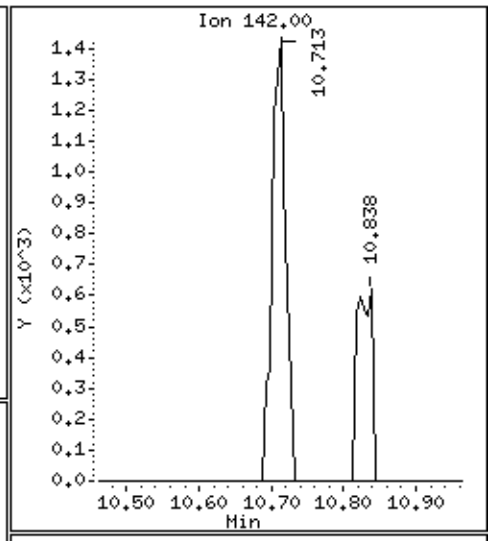
Column phase: DB-624

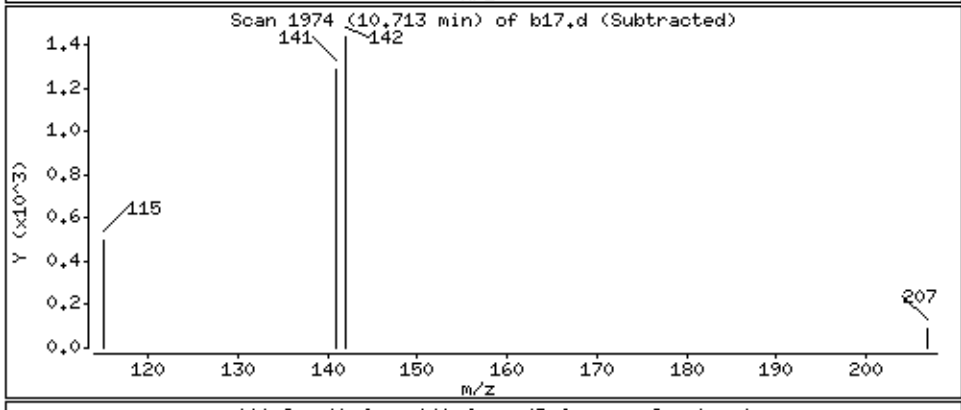
Column diameter: 0.18

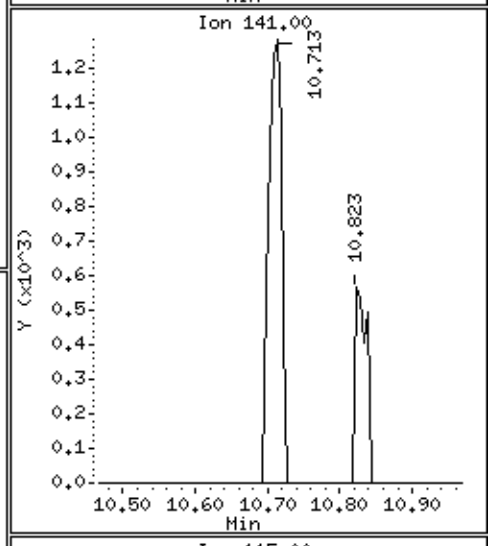
100 2,methyl-naphthalene

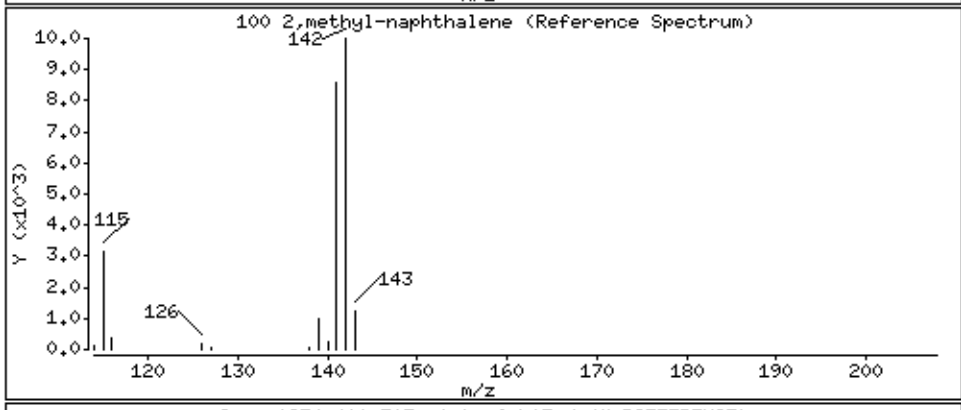
Concentration: 2.45 ppb

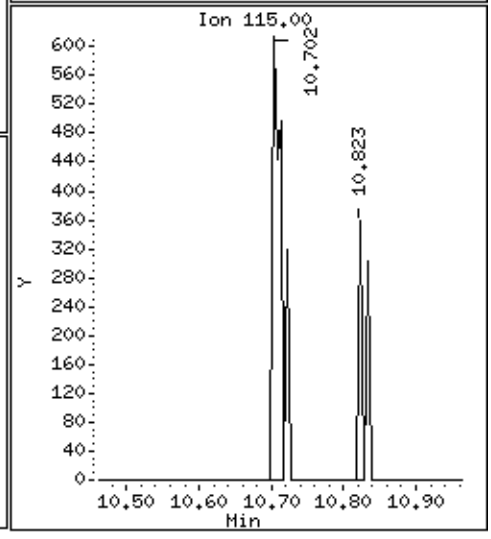


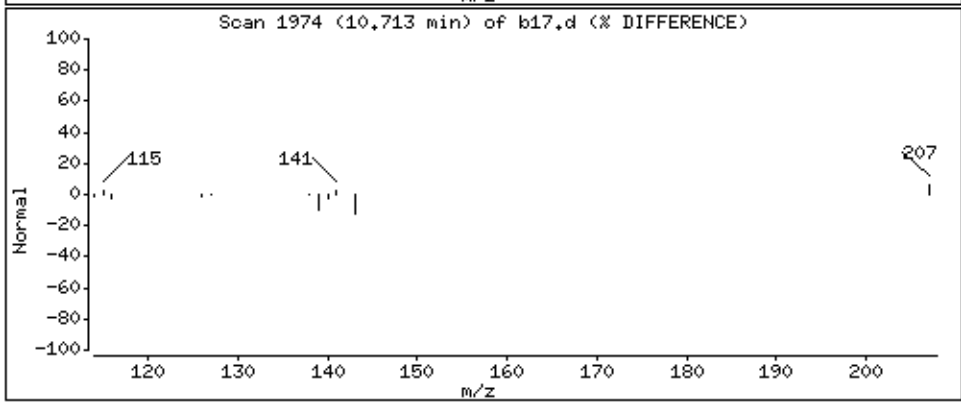












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b17.d
Injection Date: 17-MAR-2016 21:38
Instrument: 50mv1b.i
Lab Sample ID: 50140212003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0102-S1U(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 22:13 Lab Sample ID: 50140212003

Date Analyzed: 03/17/2016 22:13 Lab File ID: B031716.B\B18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	2360	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d
Lab Smp Id: 50140212003 Client Smp ID: MW-0102-S1U(030916)
Inj Date : 17-MAR-2016 22:13
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212003x50
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 69
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

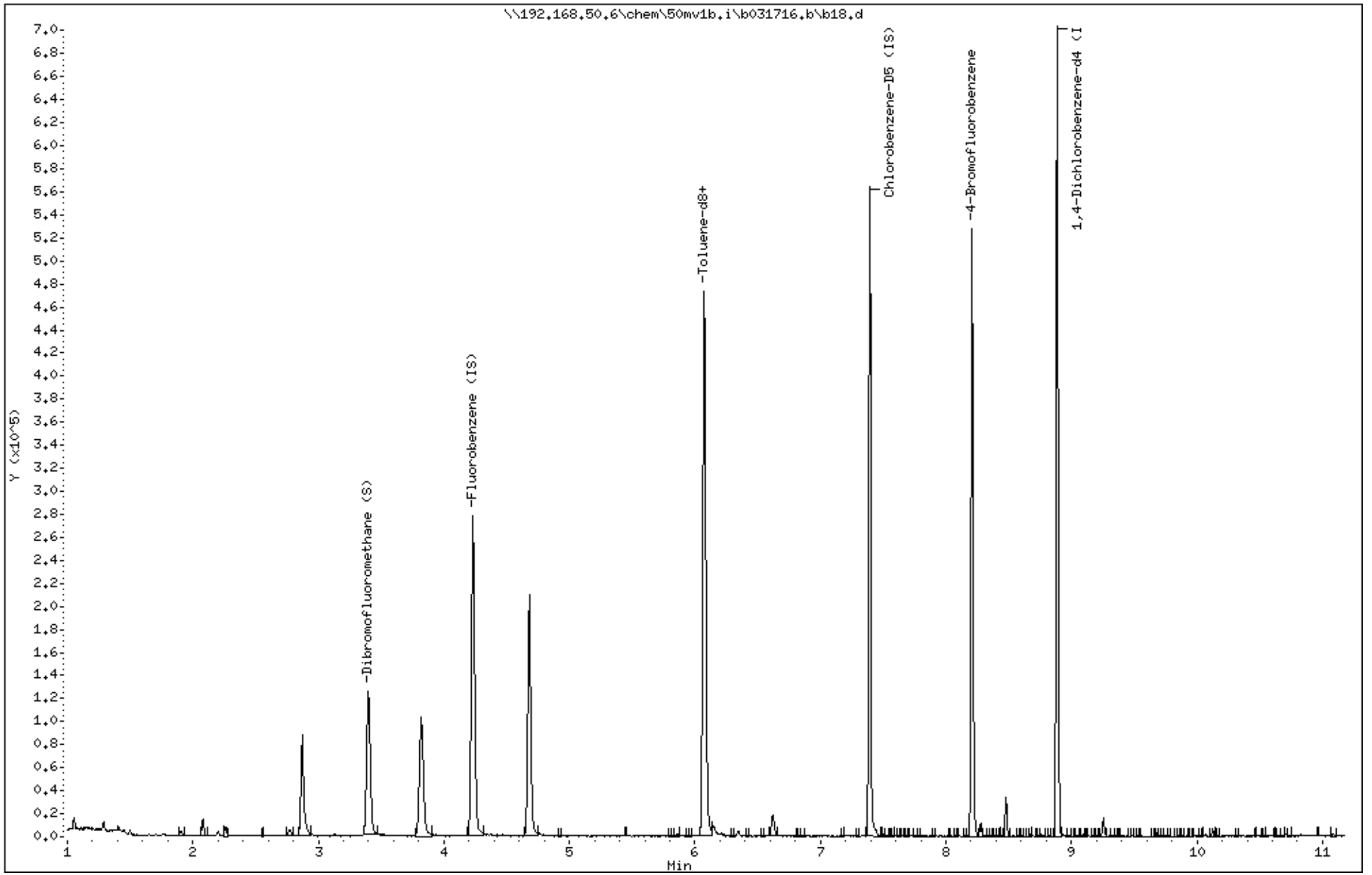
Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.059	1.062	(0.250)	922	0.36438	18.2	
	7 Diethyl ether	74	1.498	1.496	(0.354)	439	0.66467	33.2	
	18 Methylene Chloride	84	1.901	1.904	(0.449)	1202	0.76310	38.2	
	22 1,2-Dichloroethene (trans)	96	2.079	2.077	(0.491)	3223	2.21317	111	
	24 n-Hexane	57	2.262	2.260	(0.534)	2819	1.10067	55.0	
	29 1,2-Dichloroethene (cis)	96	2.869	2.872	(0.678)	32402	21.3668	1070	
$	38 Dibromofluoromethane (S)	113	3.397	3.395	(0.802)	77284	53.9475	53.9	
*	46 Fluorobenzene (IS)	96	4.234	4.231	(1.000)	275874	50.0000		
	47 Trichloroethene	95	4.678	4.681	(1.105)	69630	47.2254	2360	
$	57 Toluene-d8	98	6.075	6.072	(0.822)	284131	48.6609	48.7	
	58 Toluene	91	6.153	6.146	(0.832)	3305	0.46148	23.1	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.390	(1.000)	224876	50.0000		
$	76 4-Bromofluorobenzene	95	8.209	8.206	(1.110)	105177	51.5225	51.5	
	87 1,2,4-Trimethylbenzene	105	8.679	8.677	(0.977)	873	0.12806	6.40	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.883	8.886	(1.000)	118038	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d
Date : 17-MAR-2016 22:13
Client ID: MW-0102-S1U(030916)
Instrument: 50mv1b.i
Sample Info: 50140212003x50
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

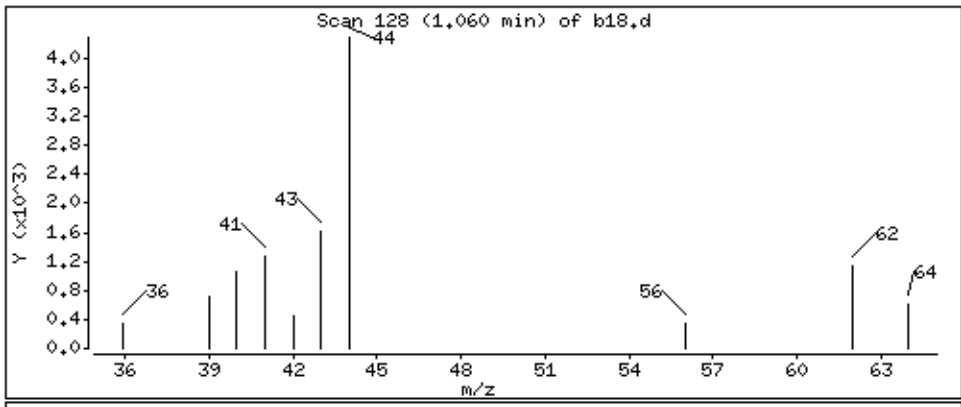
Operator: grm

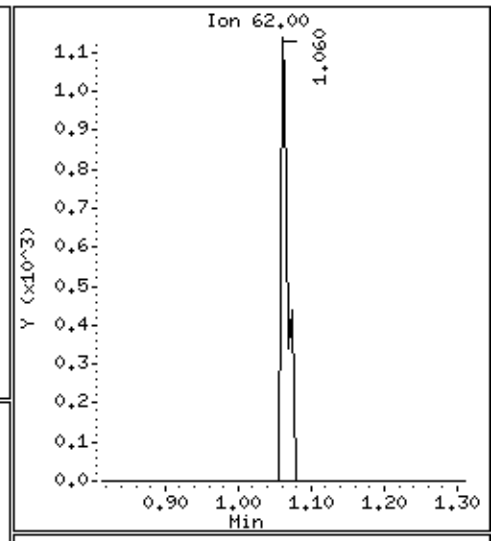
Column phase: DB-624

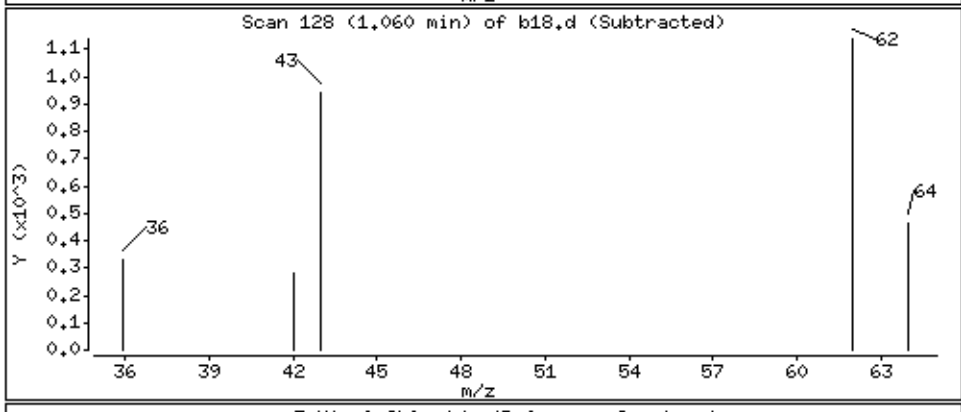
Column diameter: 0.18

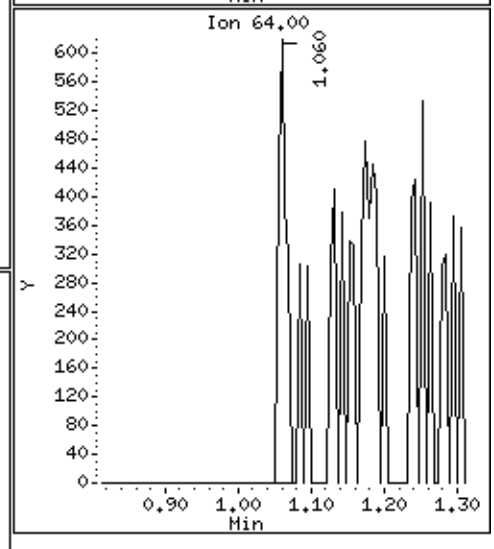
3 Vinyl Chloride

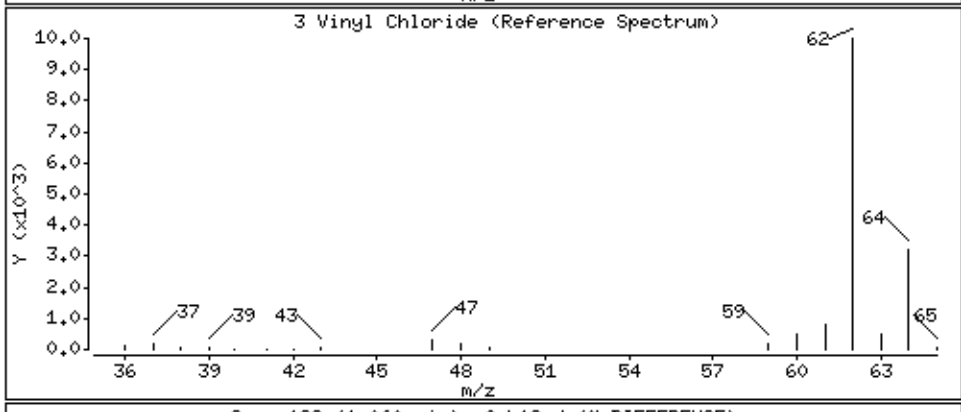
Concentration: 18.2 ppb

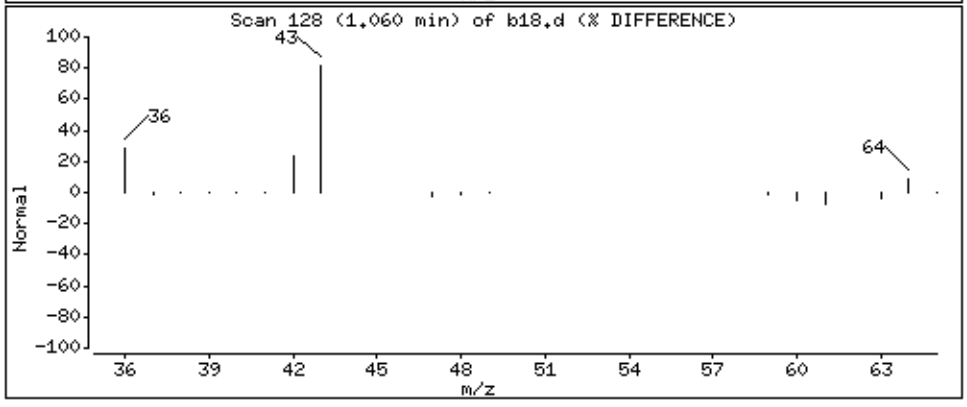












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

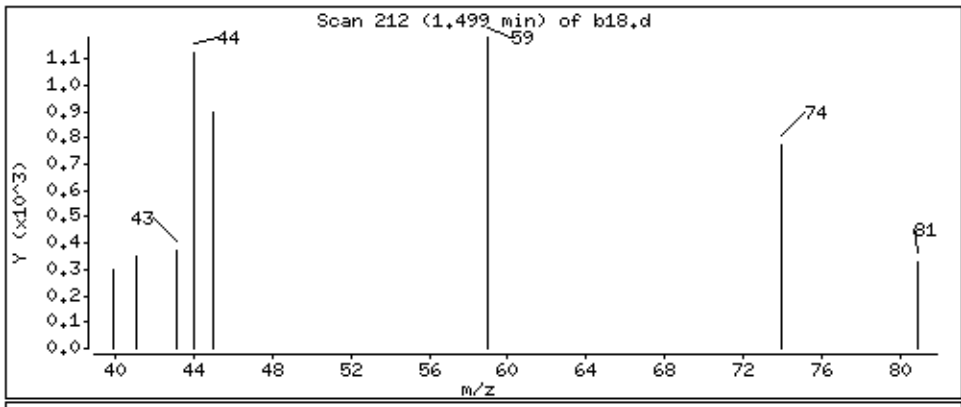
Operator: grm

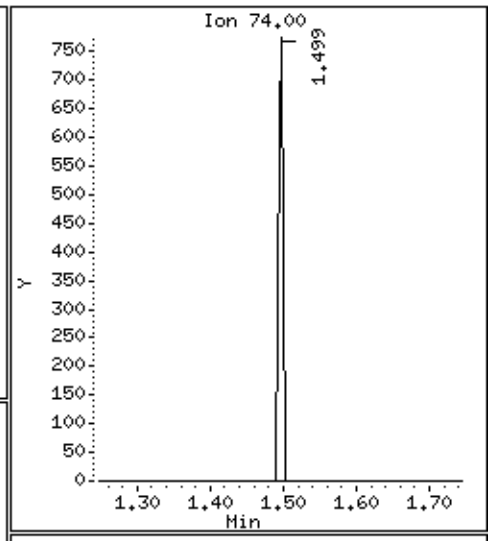
Column phase: DB-624

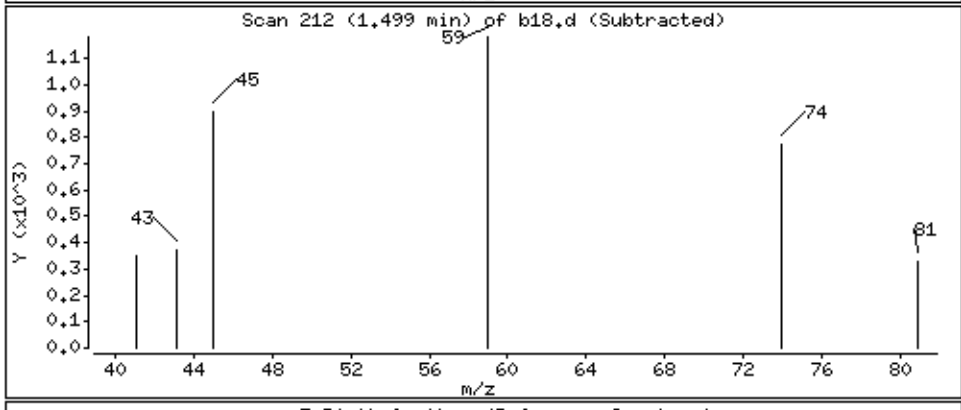
Column diameter: 0.18

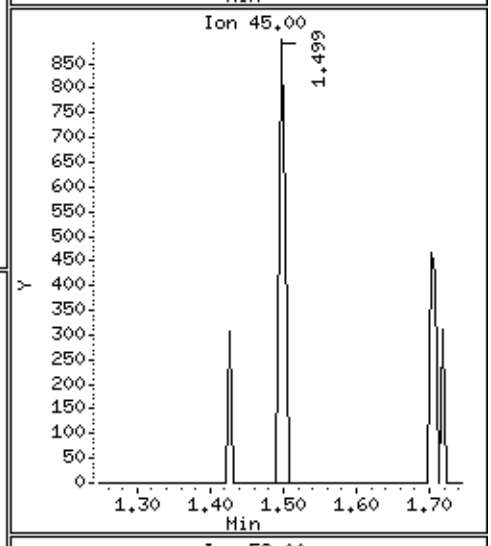
7 Diethyl ether

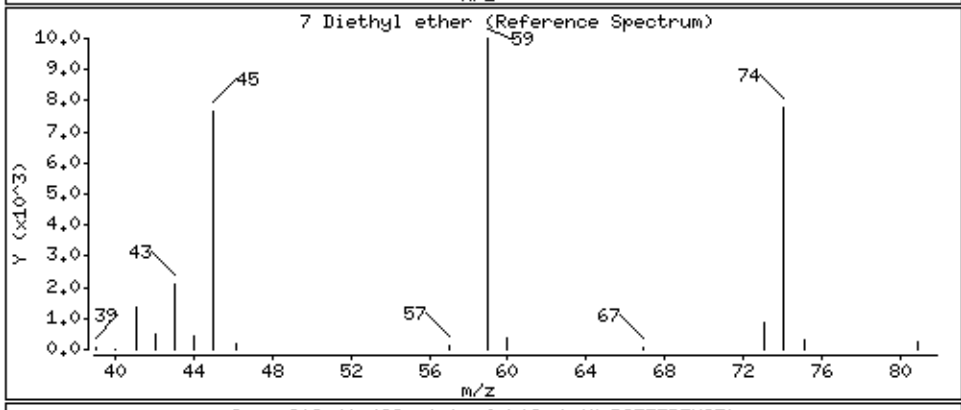
Concentration: 33.2 ppb

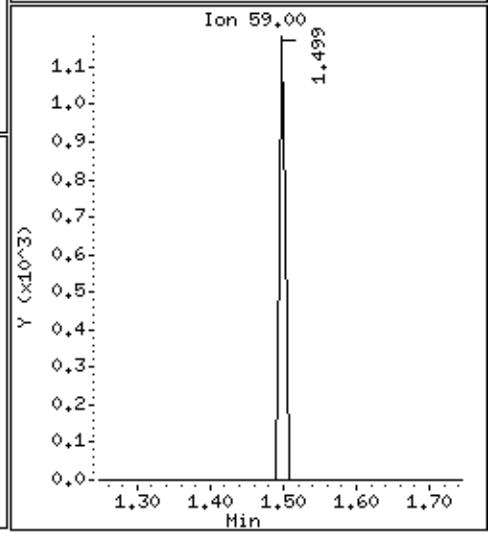


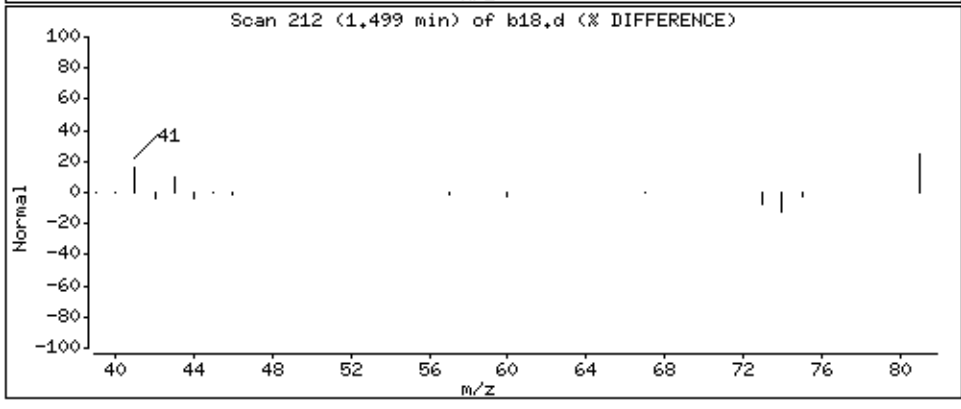












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

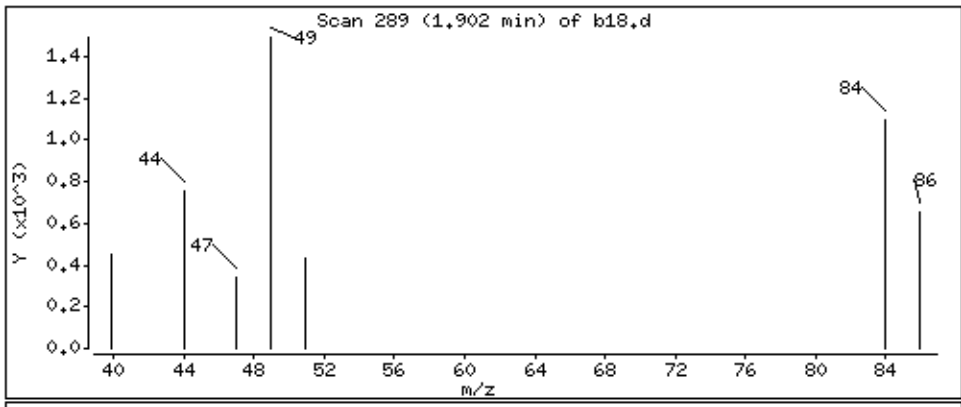
Operator: grm

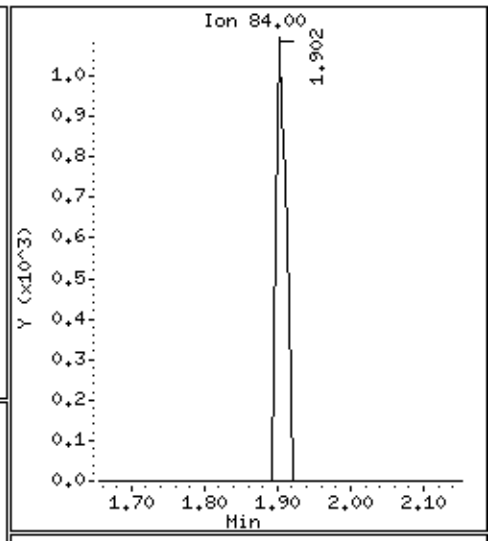
Column phase: DB-624

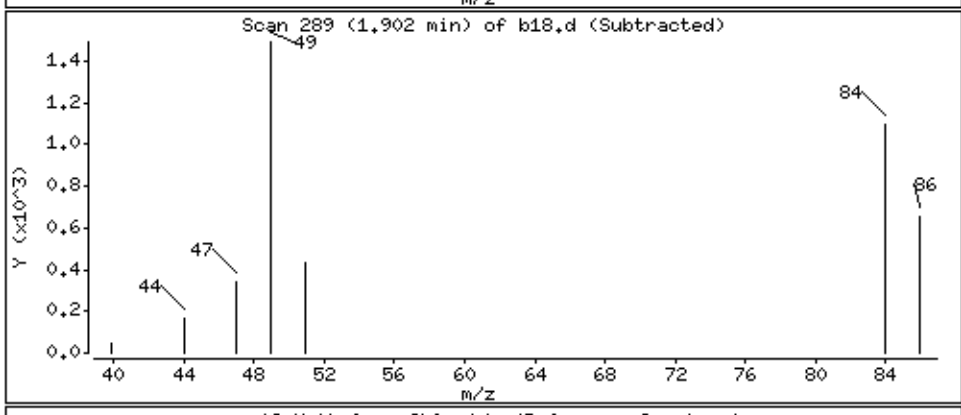
Column diameter: 0.18

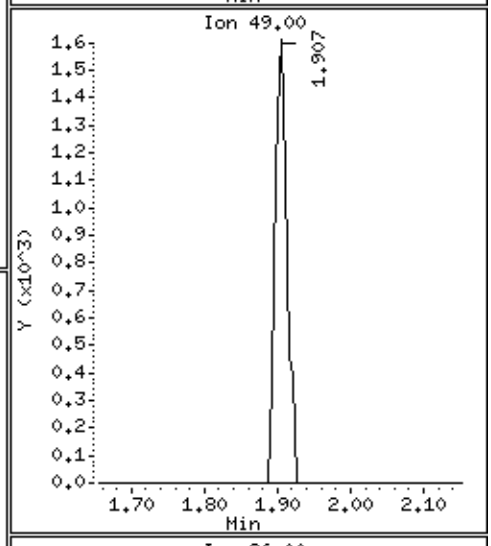
18 Methylene Chloride

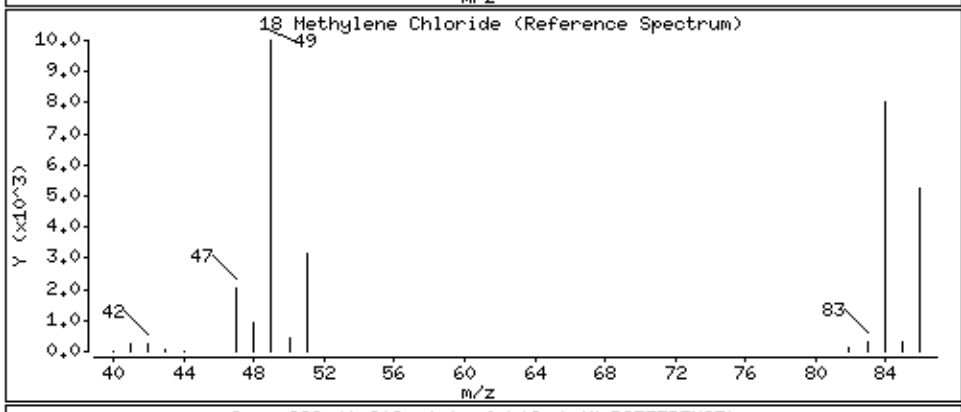
Concentration: 38.2 ppb

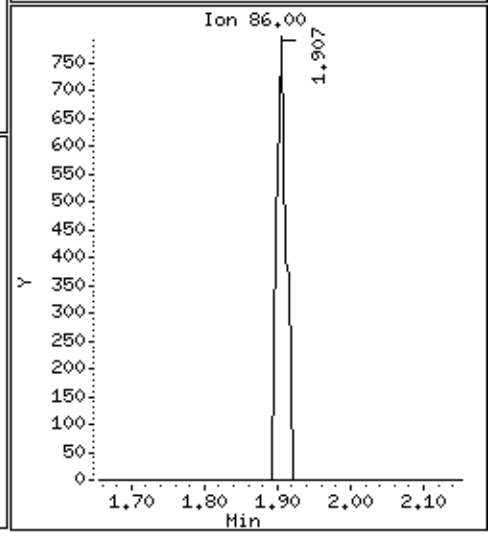


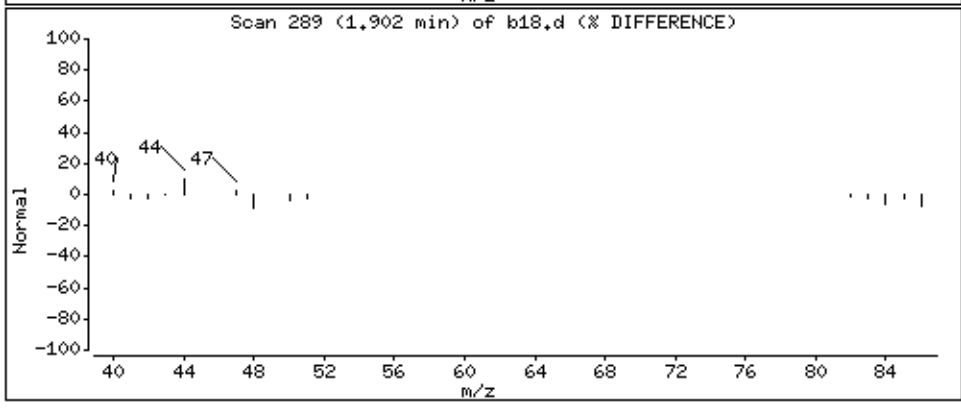












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

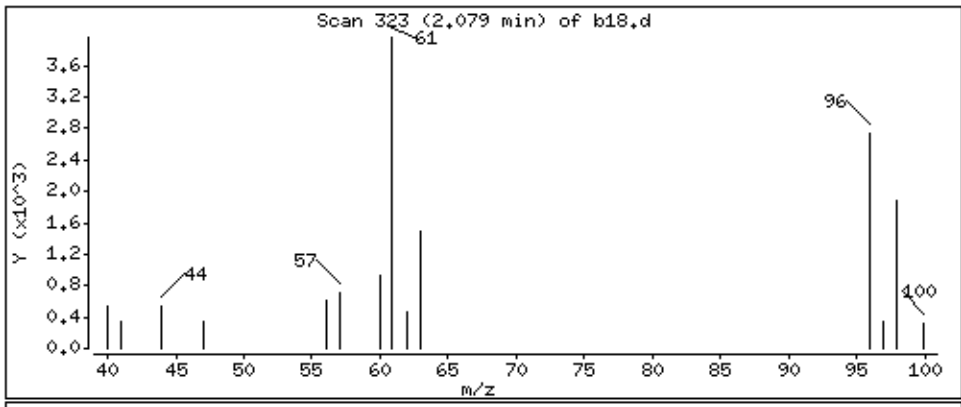
Operator: grm

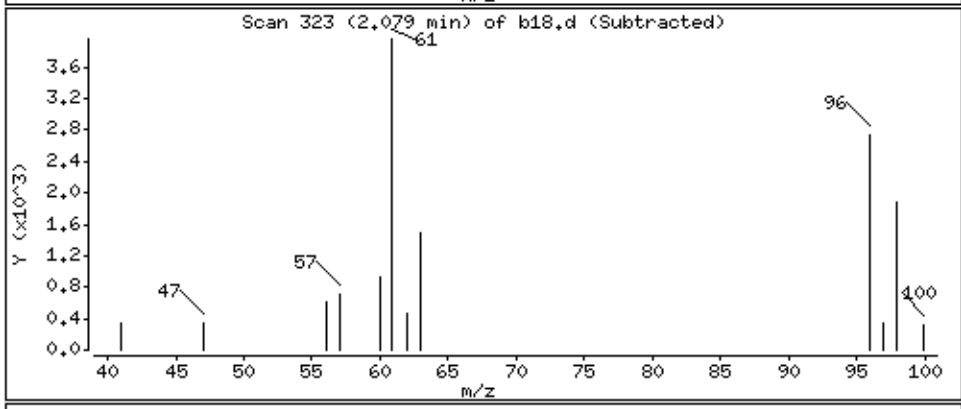
Column phase: DB-624

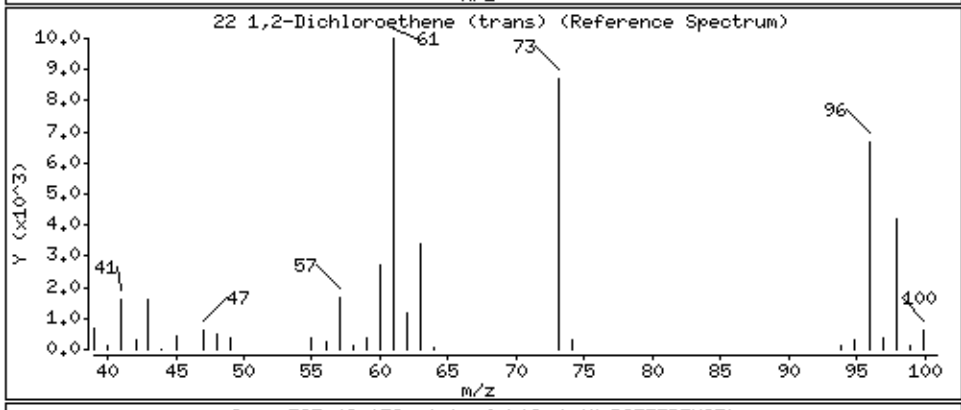
Column diameter: 0.18

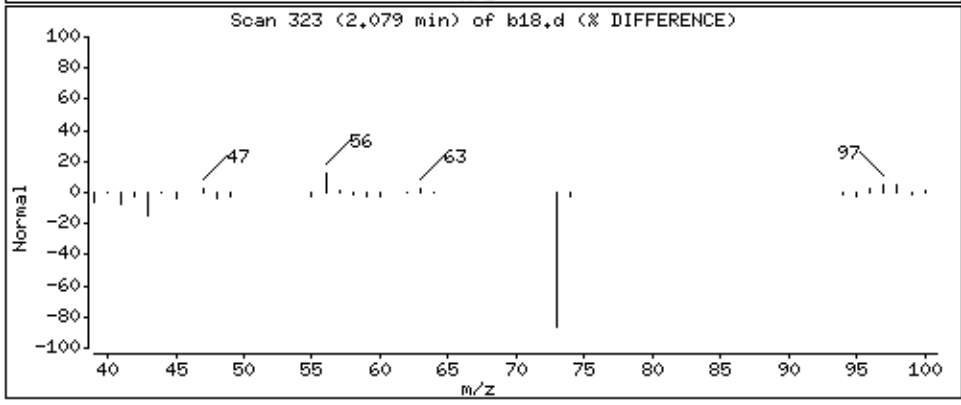
22 1,2-Dichloroethene (trans)

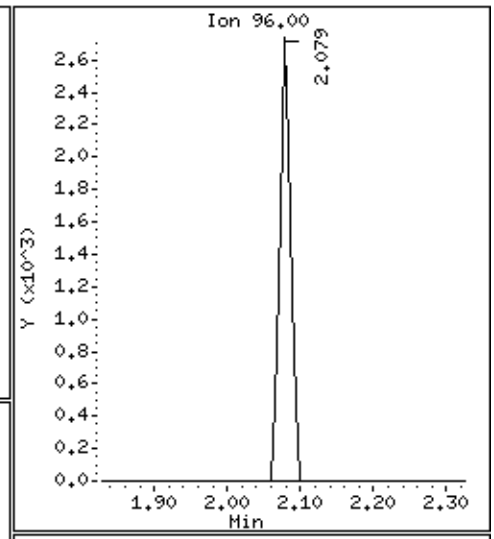
Concentration: 111 ppb

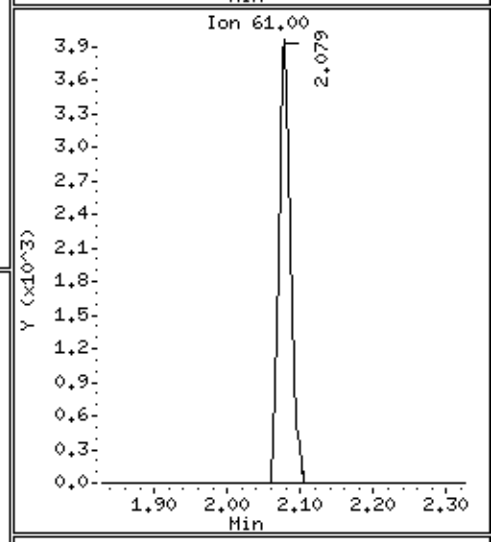


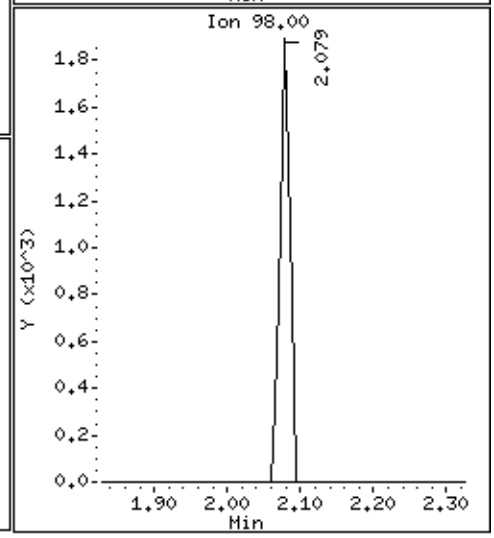












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

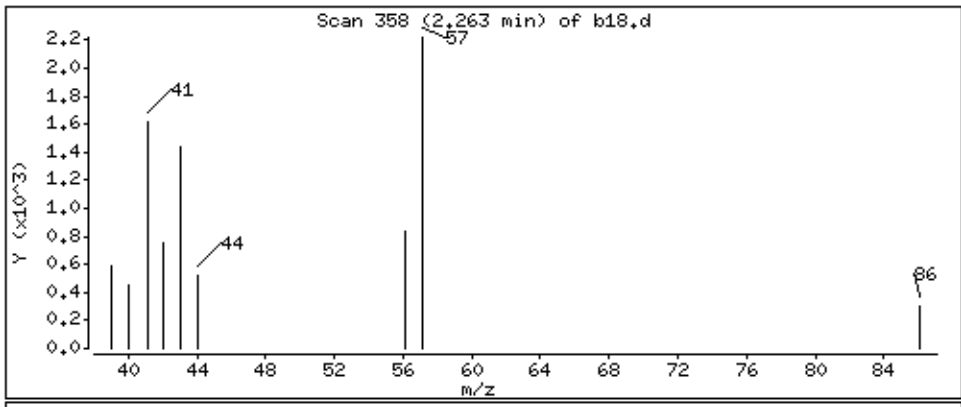
Operator: grm

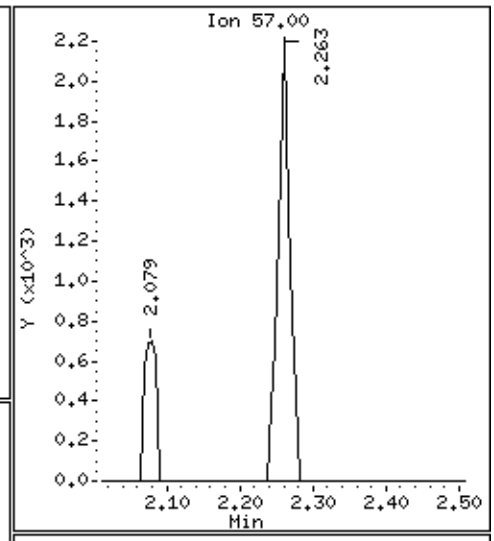
Column phase: DB-624

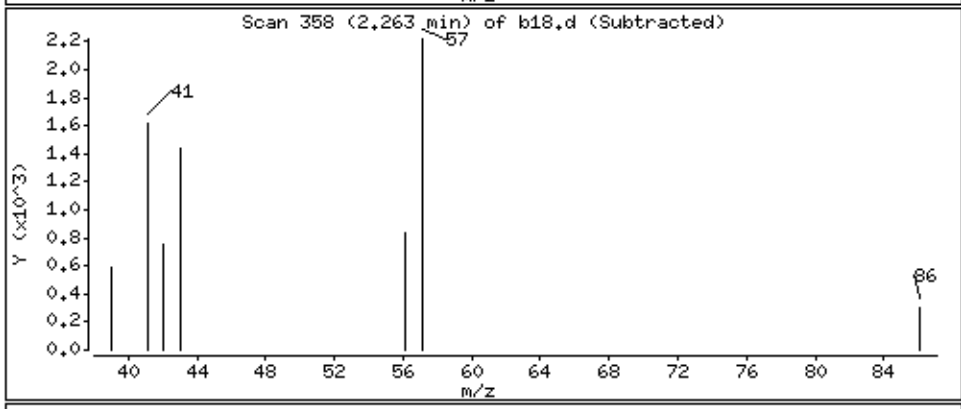
Column diameter: 0.18

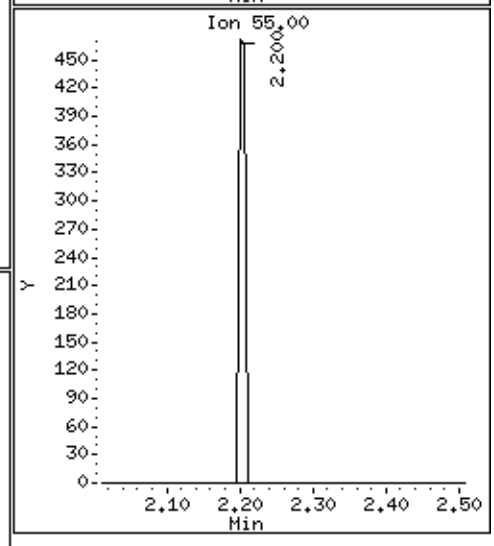
24 n-Hexane

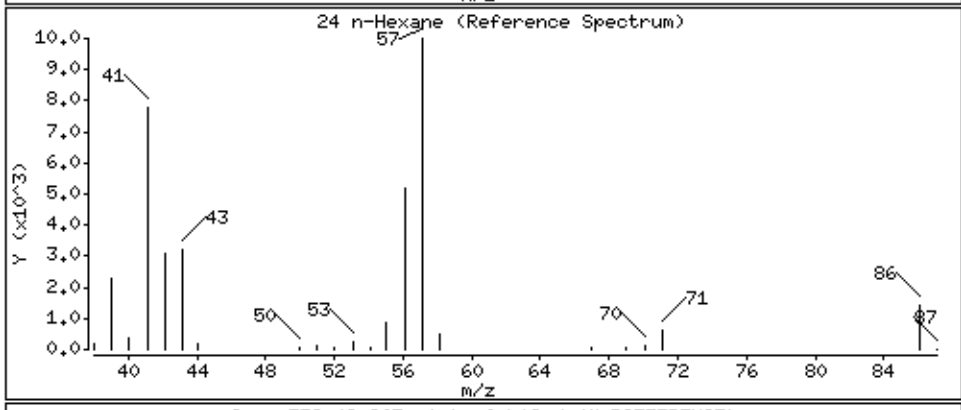
Concentration: 55.0 ppb

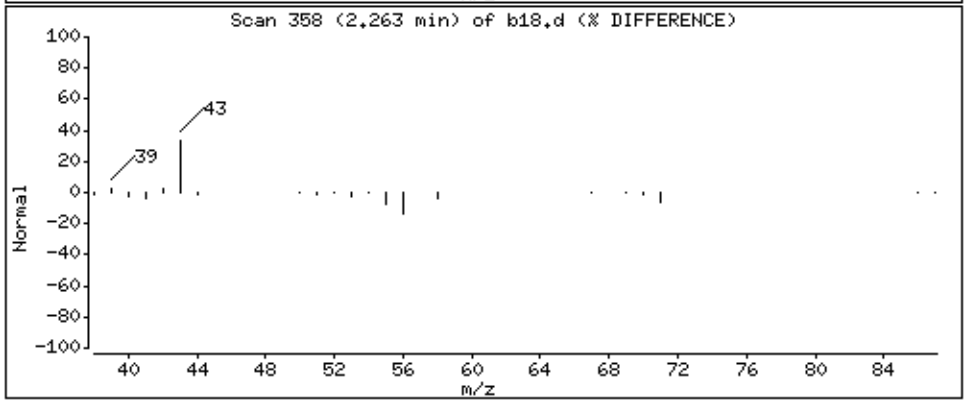












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

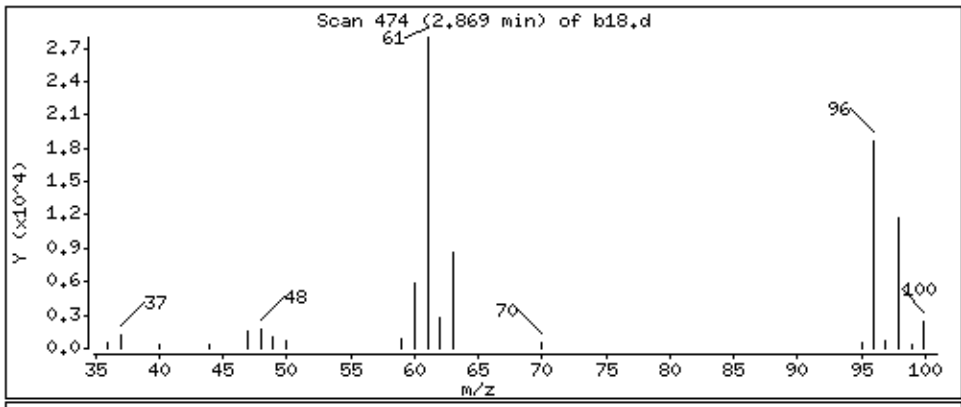
Operator: grm

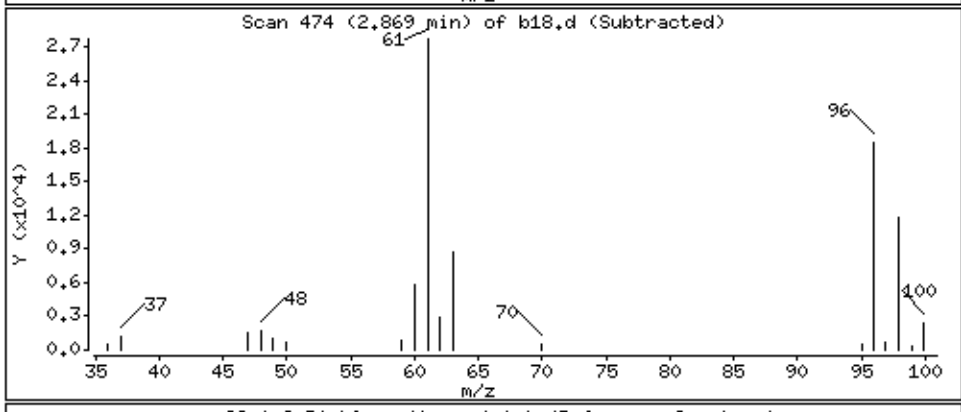
Column phase: DB-624

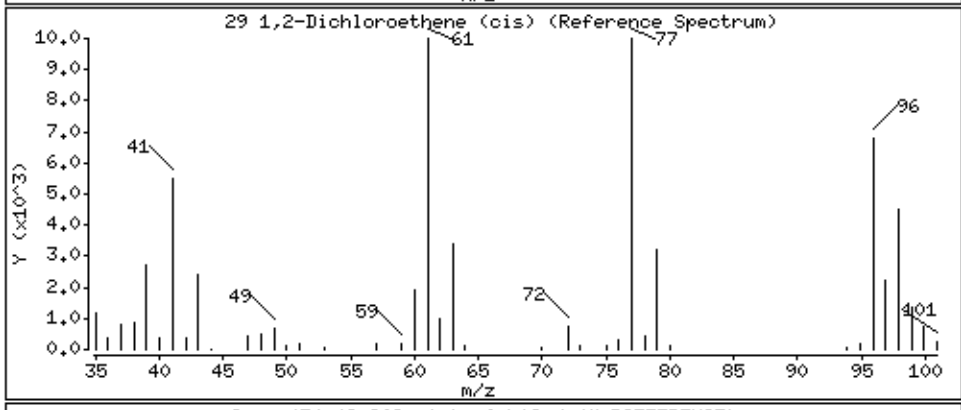
Column diameter: 0.18

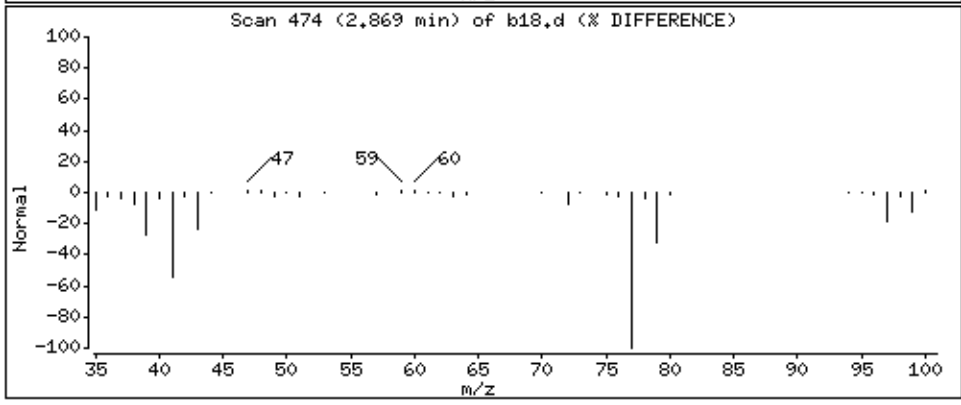
29 1,2-Dichloroethene (cis)

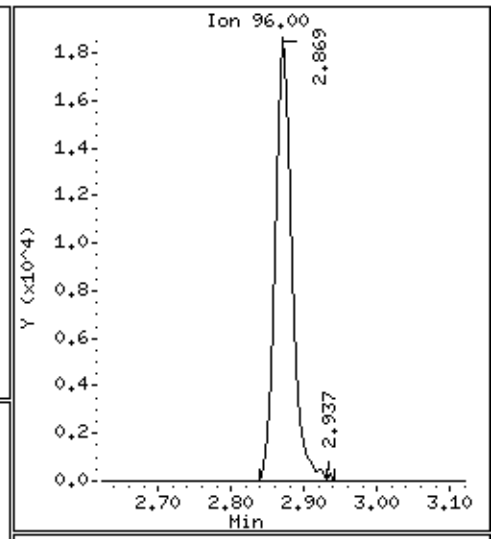
Concentration: 1070 ppb

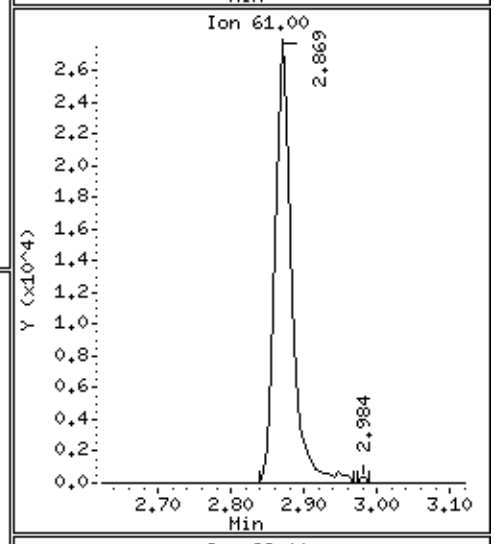


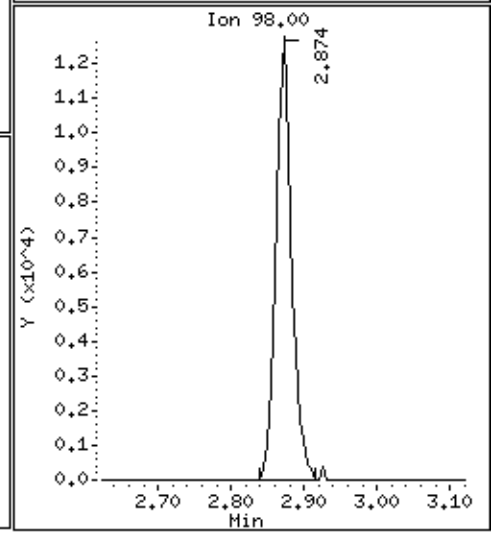












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

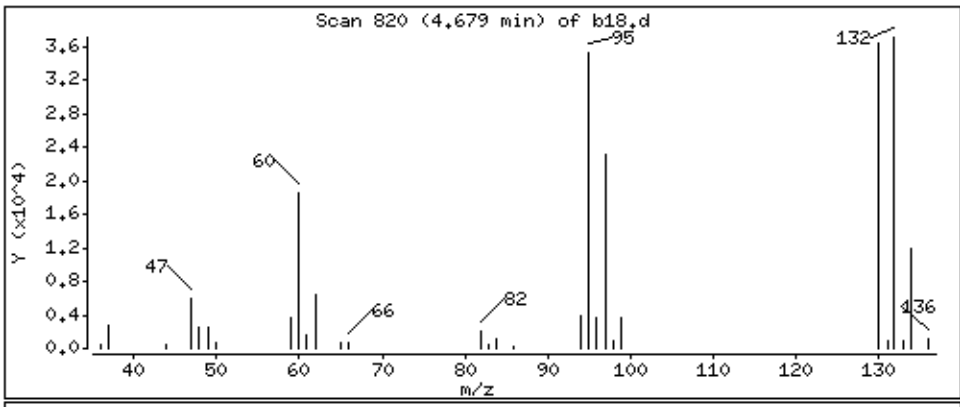
Operator: grm

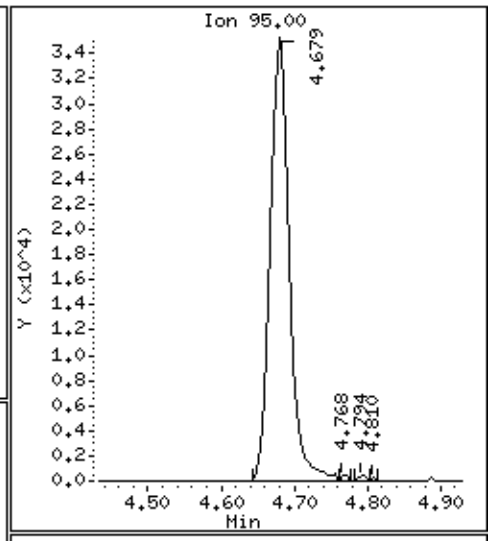
Column phase: DB-624

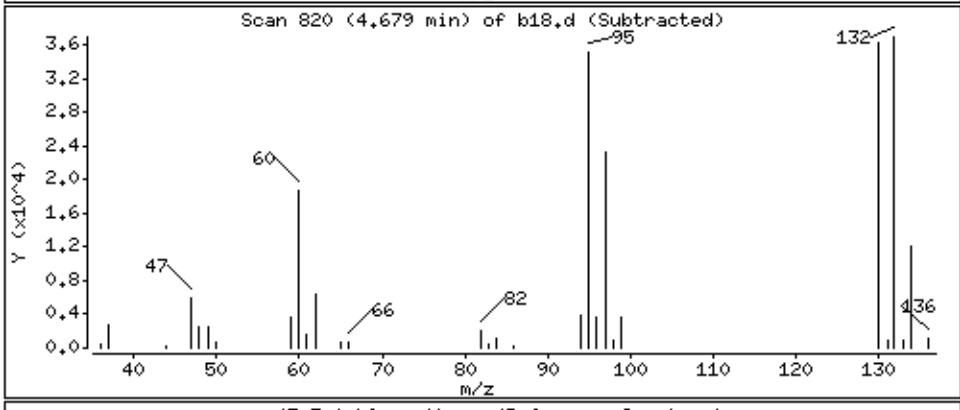
Column diameter: 0.18

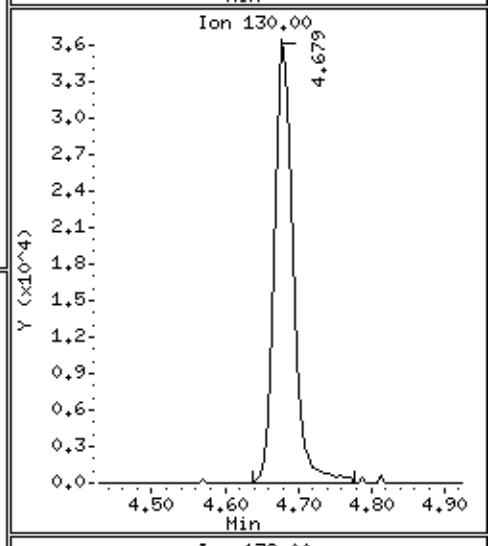
47 Trichloroethene

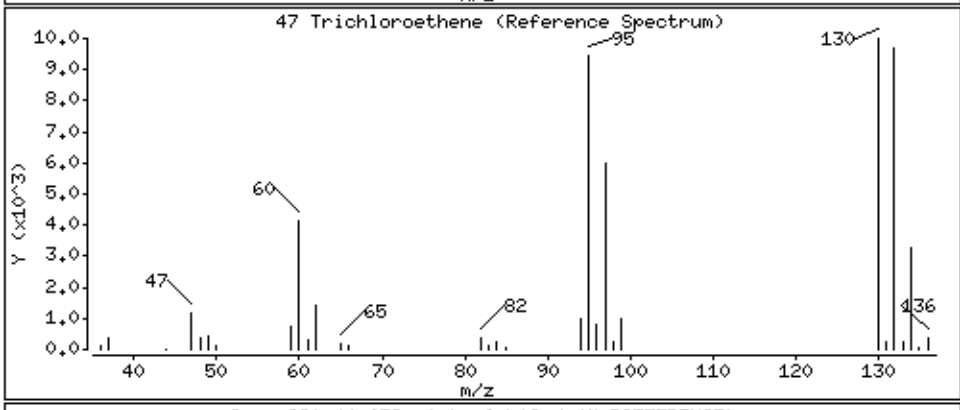
Concentration: 2360 ppb

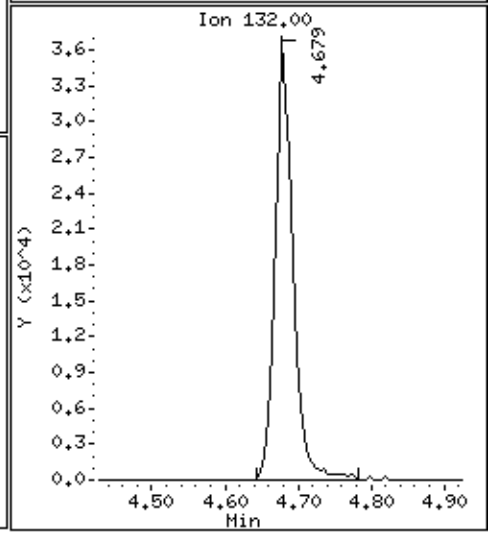


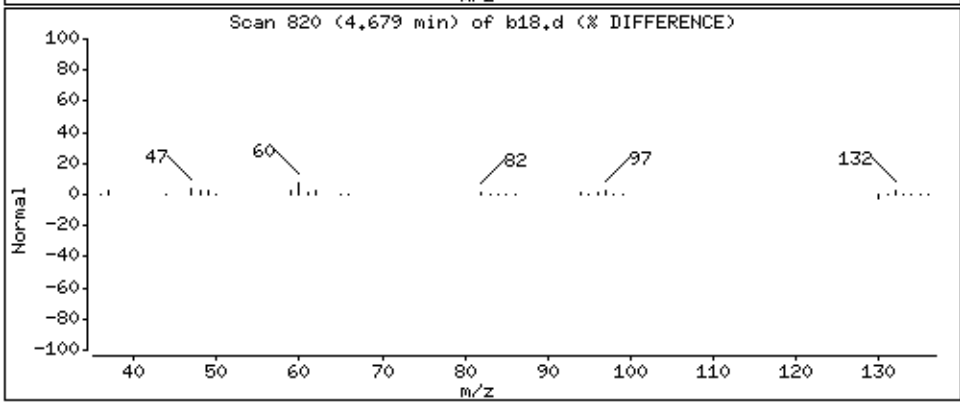












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

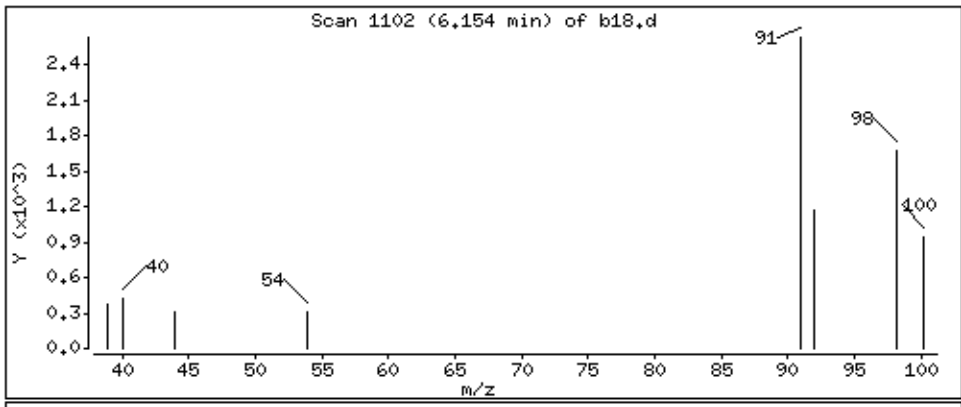
Operator: grm

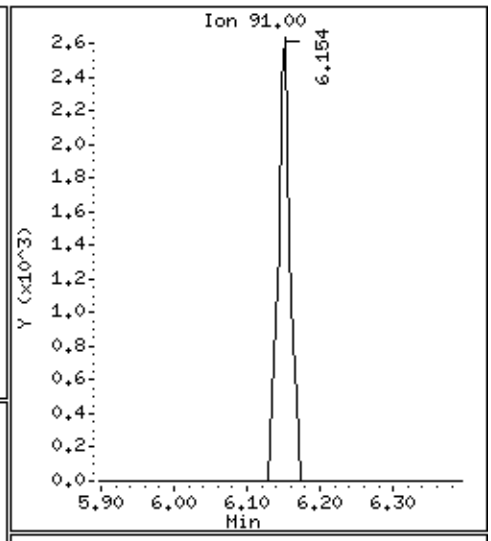
Column phase: DB-624

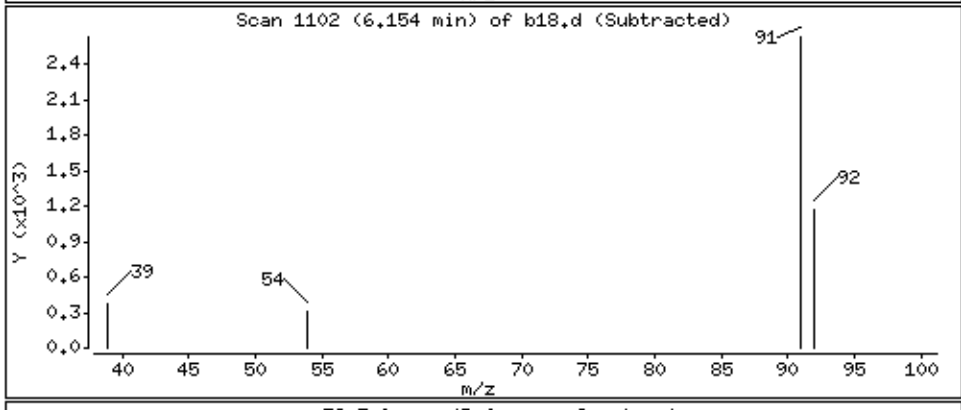
Column diameter: 0.18

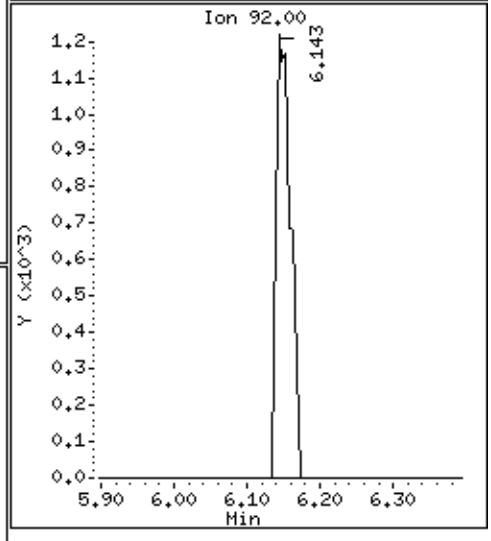
58 Toluene

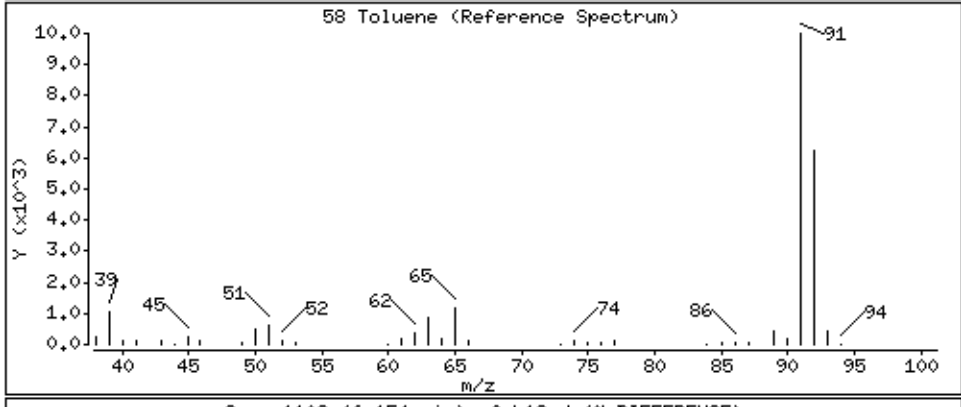
Concentration: 23.1 ppb

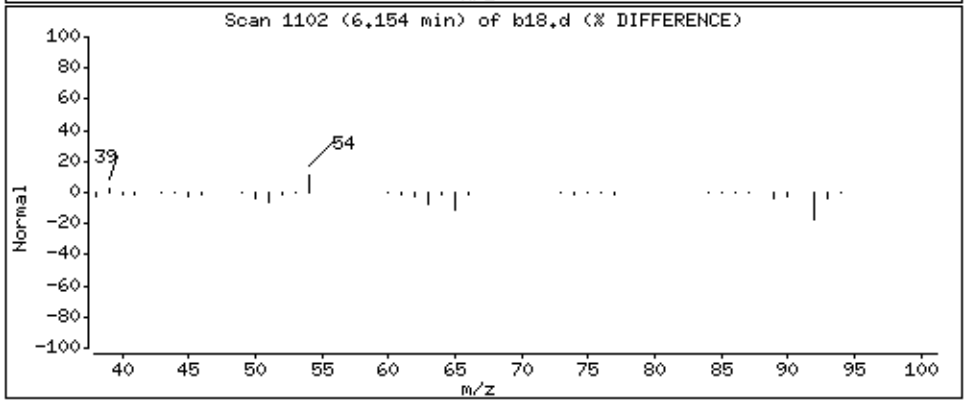












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b18.d

Date : 17-MAR-2016 22:13

Client ID: MW-0102-S1U(030916)

Instrument: 50mv1b.i

Sample Info: 50140212003x50

Purge Volume: 5.0

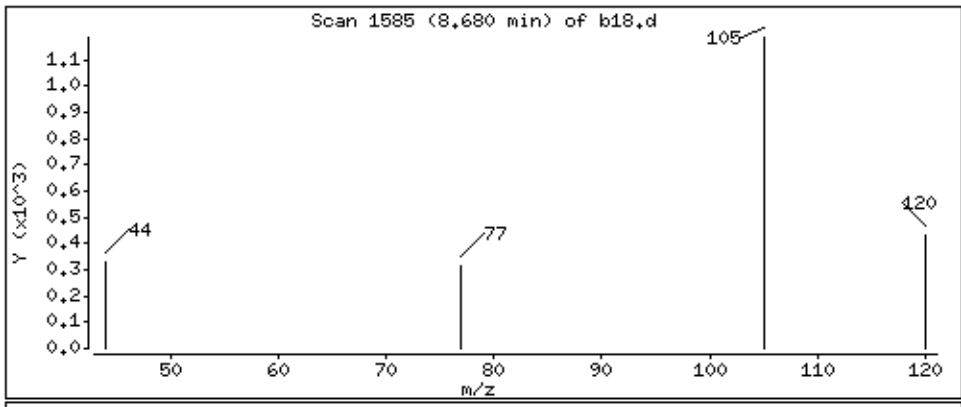
Operator: grm

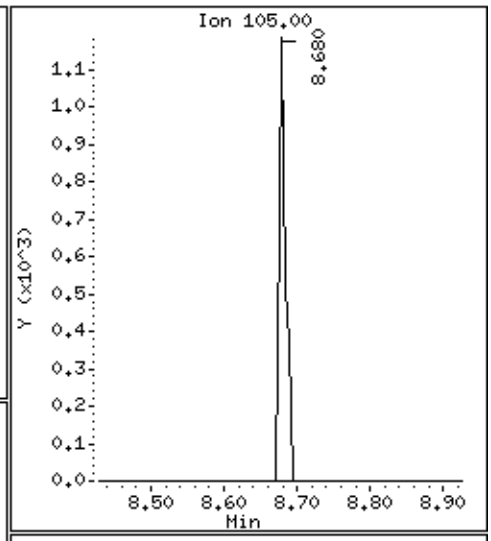
Column phase: DB-624

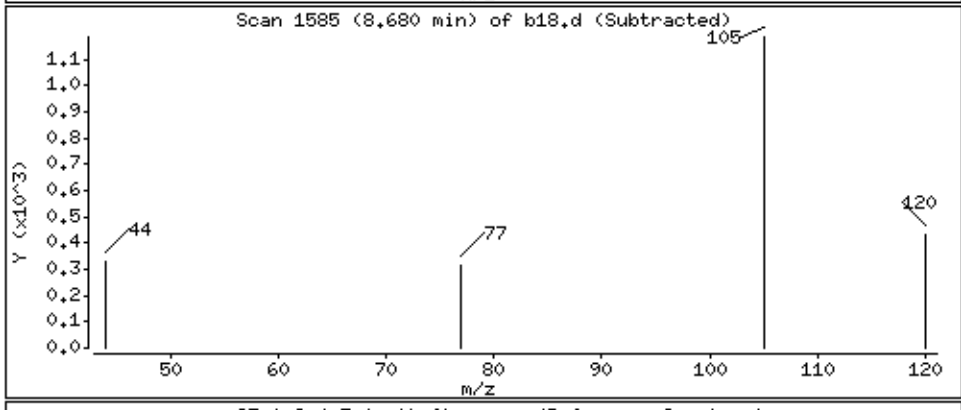
Column diameter: 0.18

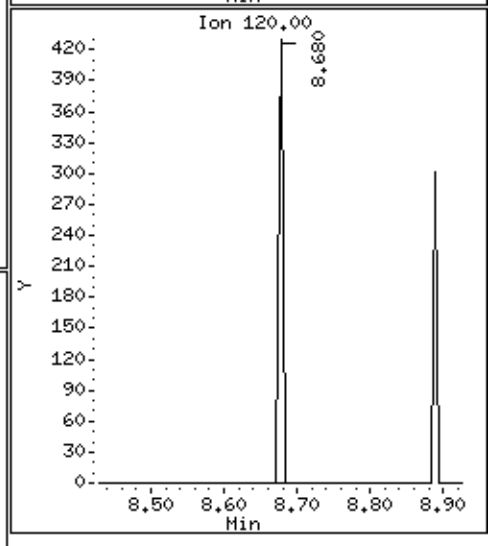
87 1,2,4-Trimethylbenzene

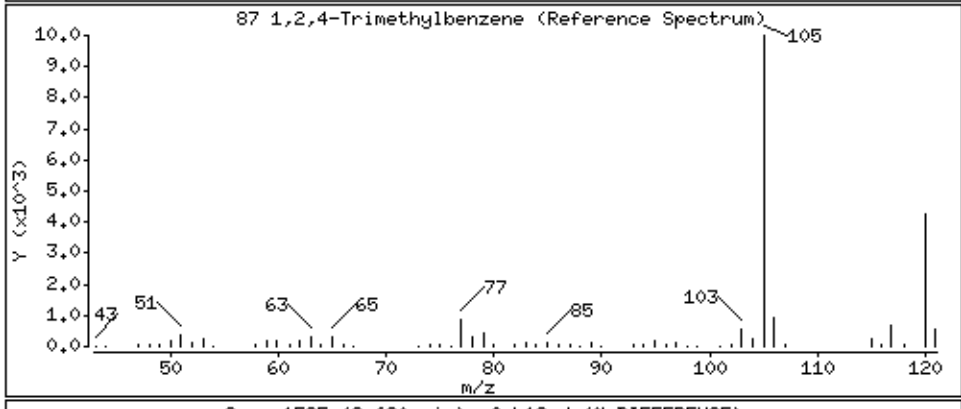
Concentration: 6.40 ppb

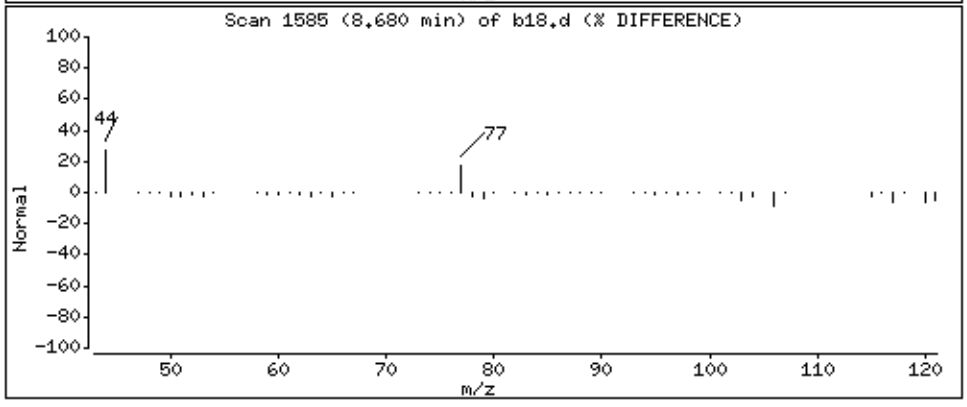












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b18.d
Injection Date: 17-MAR-2016 22:13
Instrument: 50mv1b.i
Lab Sample ID: 50140212003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0504-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 22:48 Lab Sample ID: 50140212004

Date Analyzed: 03/17/2016 22:48 Lab File ID: B031716.B\B19.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	571	
156-60-5	trans-1,2-Dichloroethene	92.2	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0504-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 22:48 Lab Sample ID: 50140212004

Date Analyzed: 03/17/2016 22:48 Lab File ID: B031716.B\B19.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	8.9	J
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d
Lab Smp Id: 50140212004 Client Smp ID: MW-0504-S1(030916)
Inj Date : 17-MAR-2016 22:48
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212004x5
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 70
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.060	1.062	(0.251)	4393	1.77296	8.86	
	7 Diethyl ether	74	1.500	1.496	(0.355)	502	0.77619	3.88	
	11 1,1-Dichloroethene	96	1.631	1.627	(0.386)	664	0.53101	2.66(Q)	
	18 Methylene Chloride	84	1.908	1.904	(0.451)	1462	0.94787	4.74	
	22 1,2-Dichloroethene (trans)	96	2.080	2.077	(0.492)	26304	18.4458	92.2	
	24 n-Hexane	57	2.263	2.260	(0.535)	3663	1.46056	7.30	
	29 1,2-Dichloroethene (cis)	96	2.870	2.872	(0.679)	169581	114.200	571	
$	38 Dibromofluoromethane (S)	113	3.398	3.395	(0.803)	76968	54.8672	54.9	
*	46 Fluorobenzene (IS)	96	4.230	4.231	(1.000)	270141	50.0000		
	47 Trichloroethene	95	4.680	4.681	(1.106)	568048	393.446	1970	
$	57 Toluene-d8	98	6.076	6.072	(0.822)	260127	48.5343	48.5	
	58 Toluene	91	6.155	6.146	(0.832)	3177	0.48328	2.42	
*	67 Chlorobenzene-D5 (IS)	117	7.394	7.390	(1.000)	206415	50.0000		
$	76 4-Bromofluorobenzene	95	8.205	8.206	(1.110)	99364	53.0282	53.0	
	87 1,2,4-Trimethylbenzene	105	8.675	8.677	(0.976)	791	0.12563	0.628	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.885	8.886	(1.000)	109017	50.0000		

QC Flag Legend

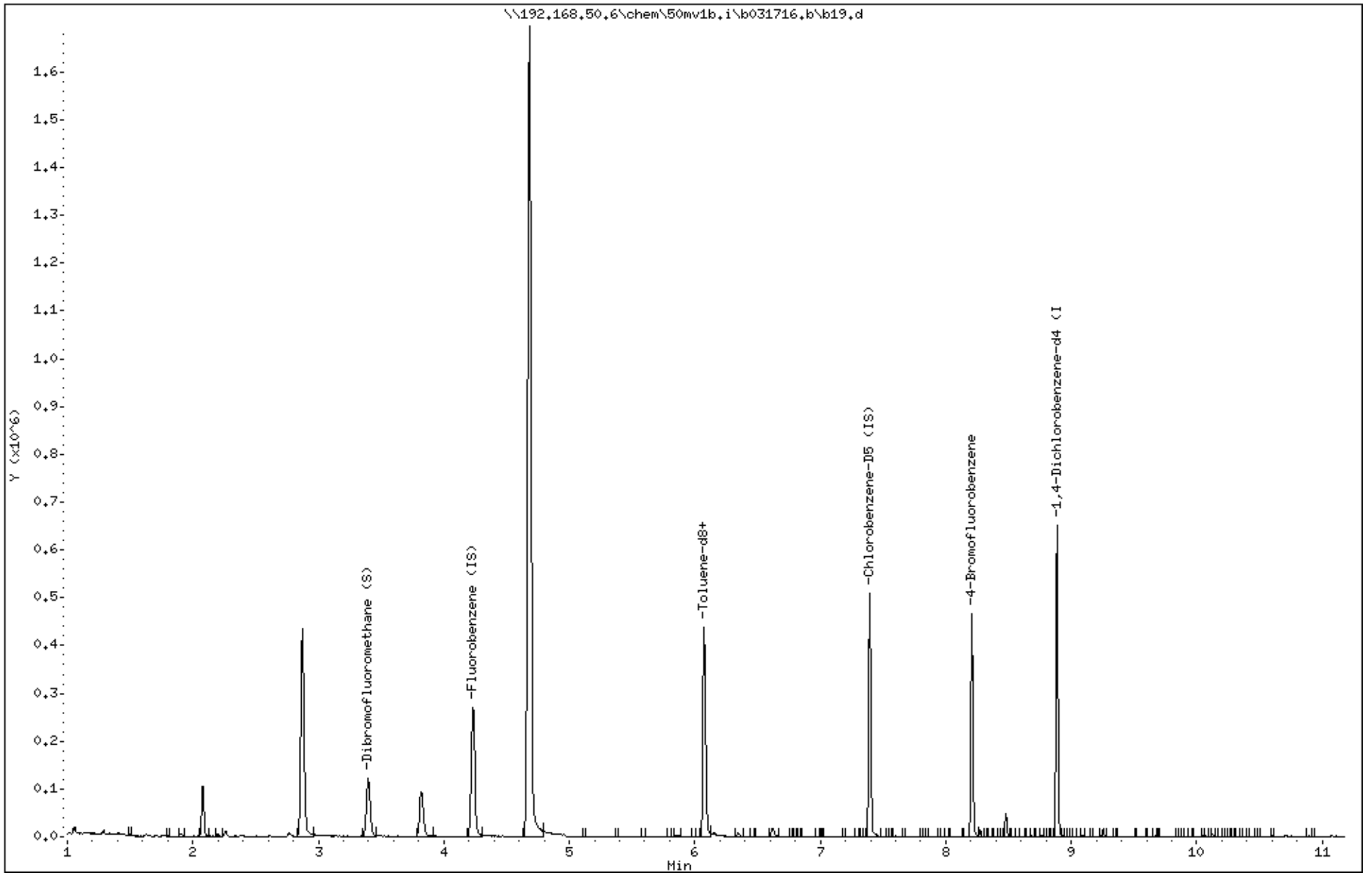
Q - Qualifier signal failed the ratio test.

QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d
Date : 17-MAR-2016 22:48
Client ID: MW-0504-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212004x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

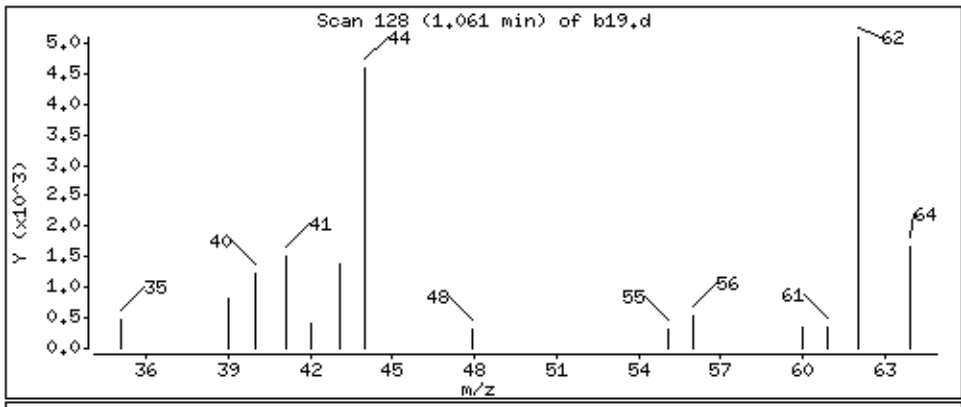
Operator: grm

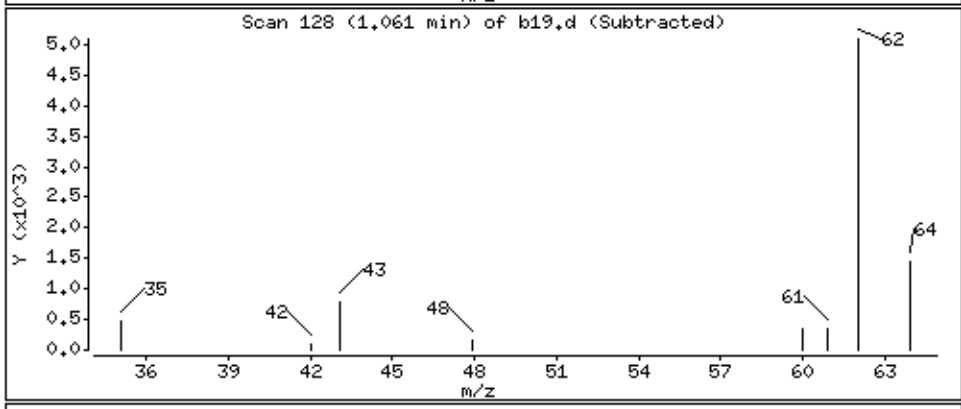
Column phase: DB-624

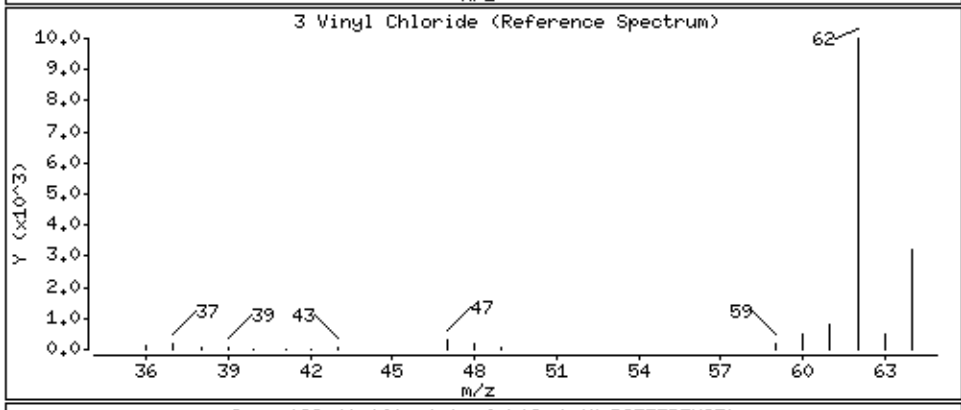
Column diameter: 0.18

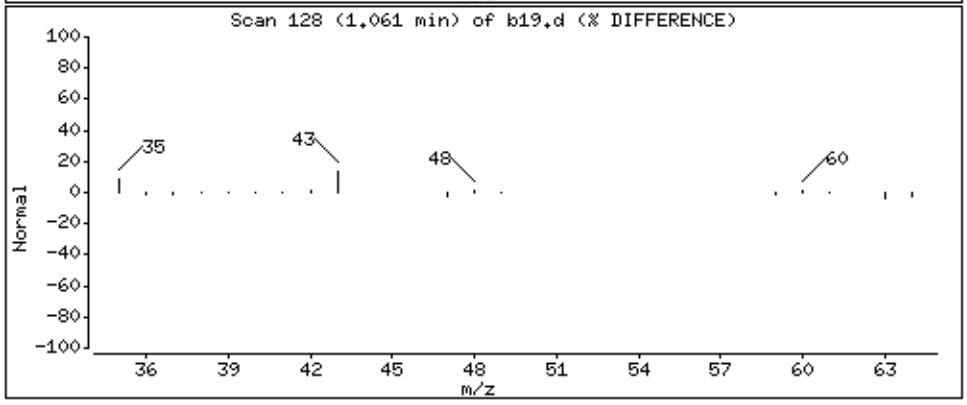
3 Vinyl Chloride

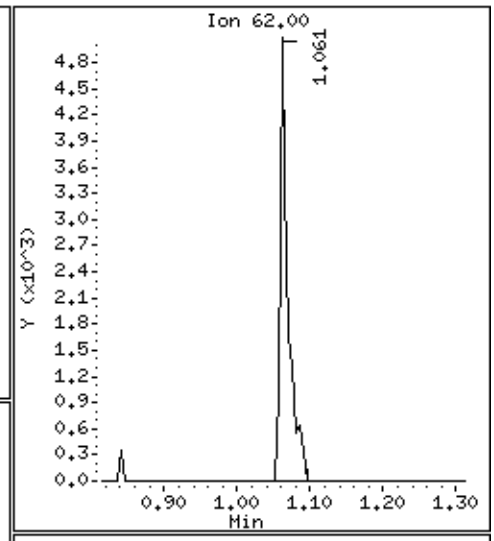
Concentration: 8.86 ppb

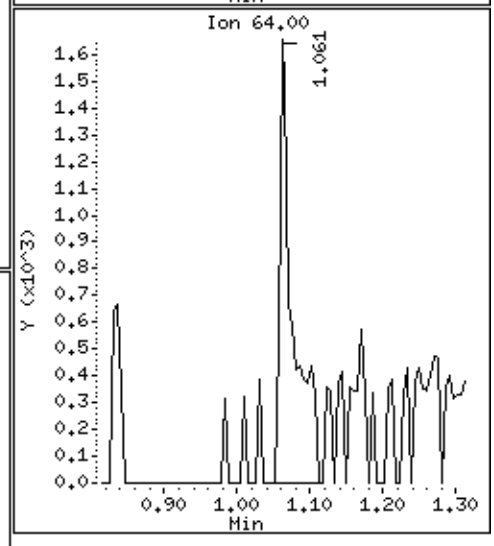












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

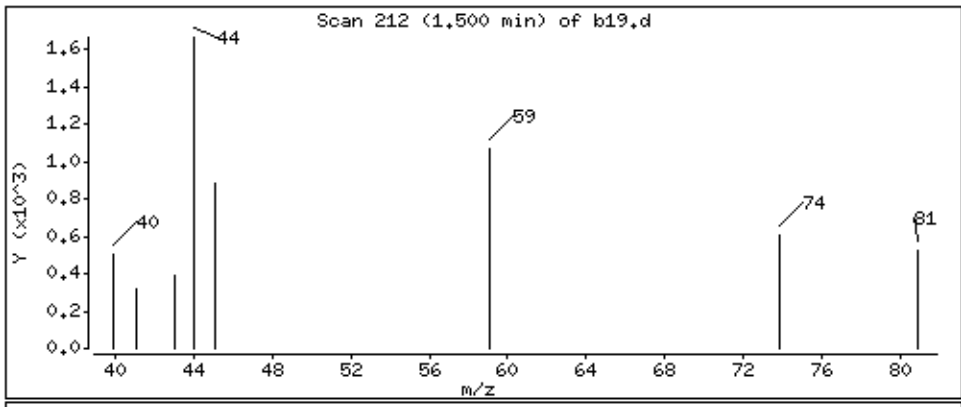
Operator: grm

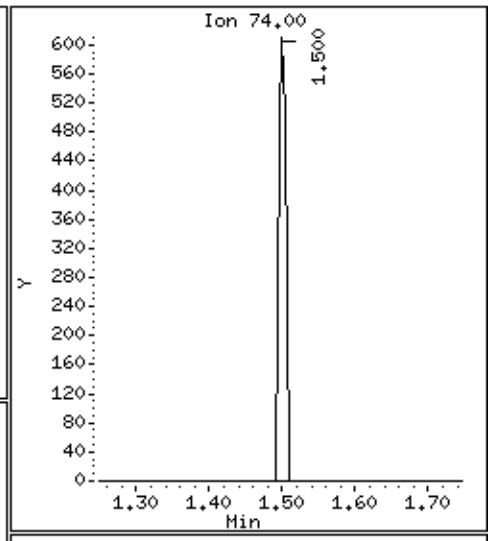
Column phase: DB-624

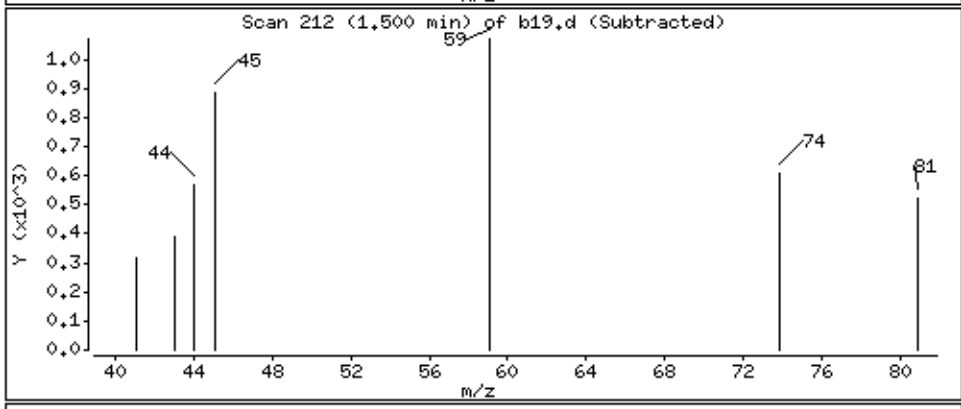
Column diameter: 0.18

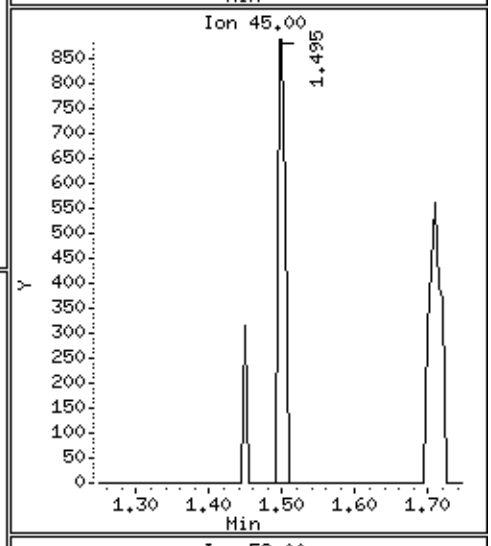
7 Diethyl ether

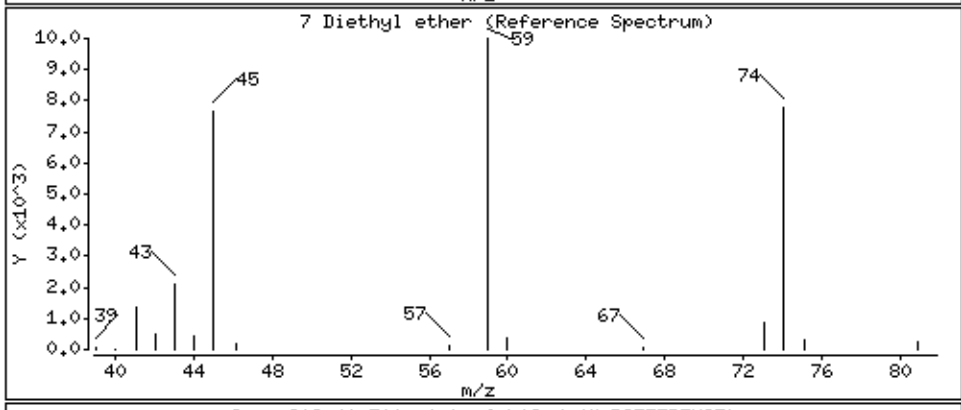
Concentration: 3.88 ppb

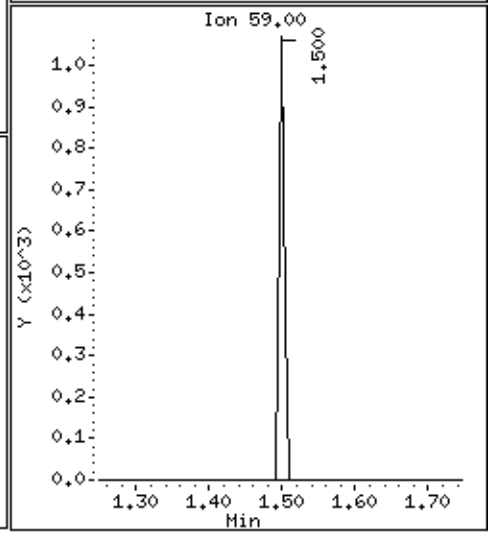


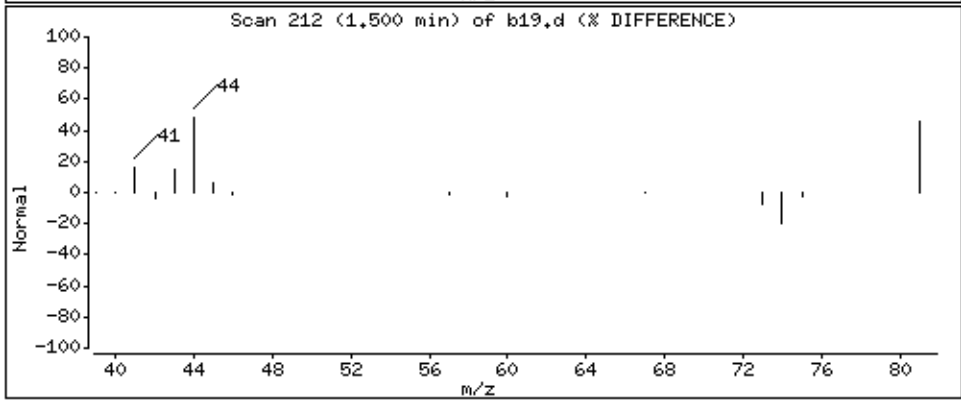












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

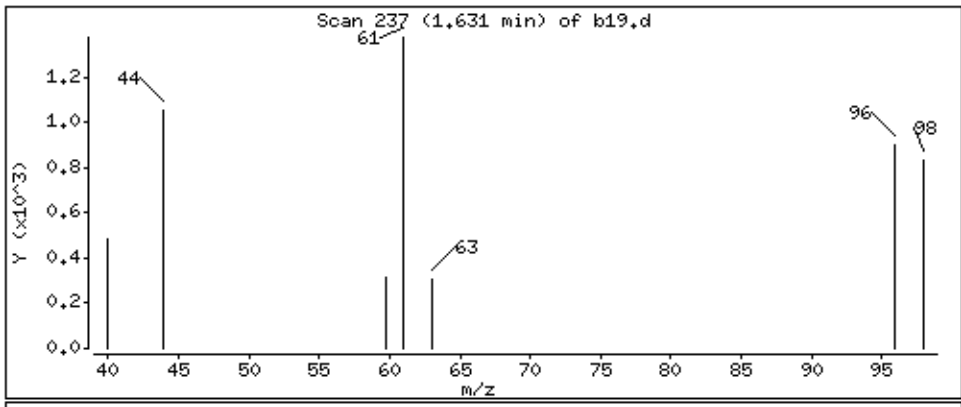
Operator: grm

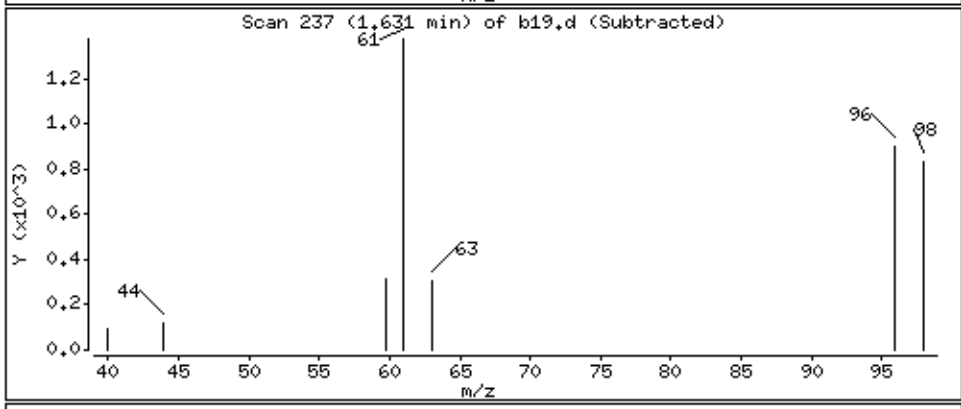
Column phase: DB-624

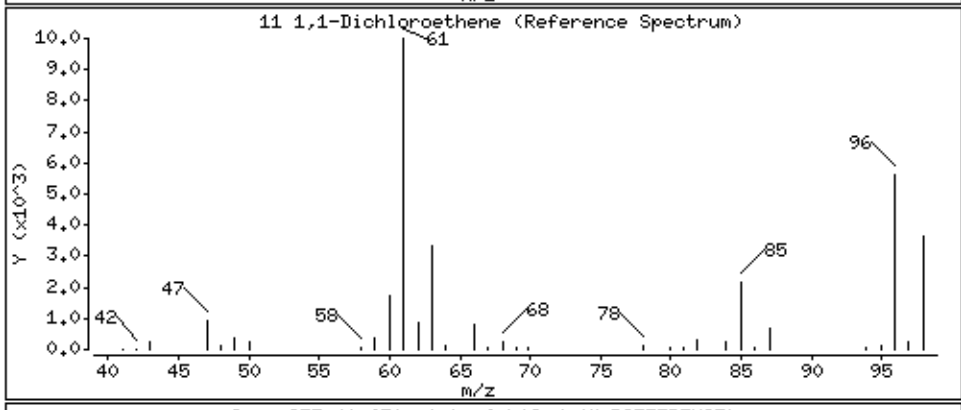
Column diameter: 0.18

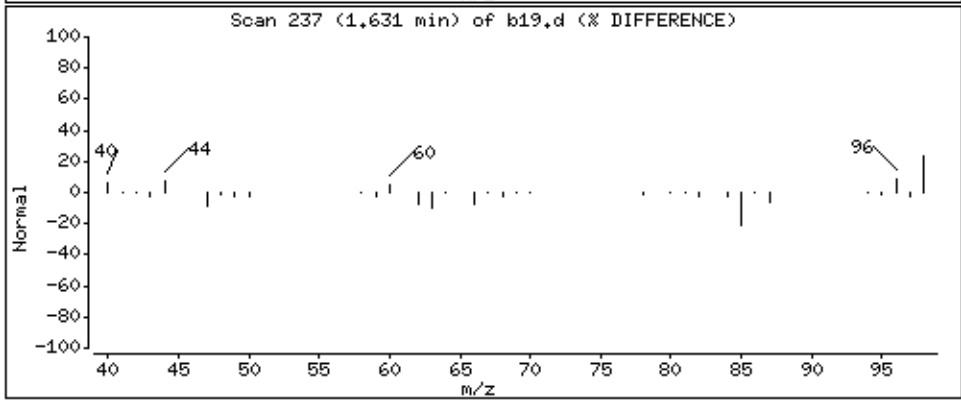
11 1,1-Dichloroethene

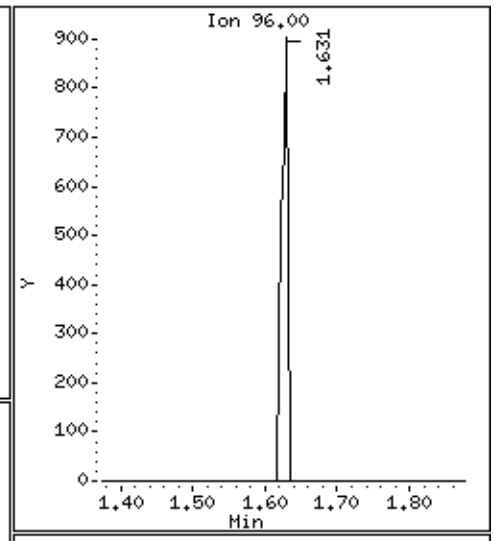
Concentration: 2.66 ppb

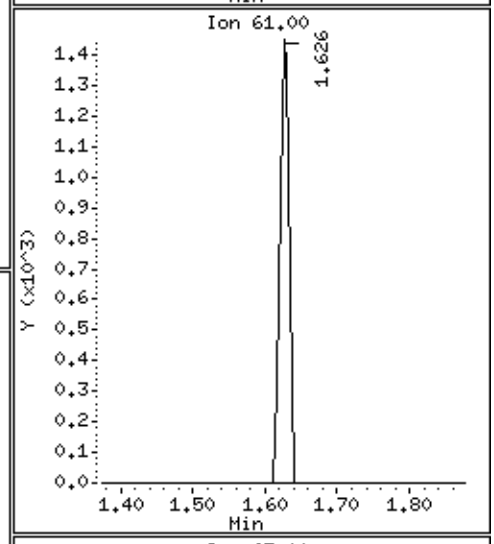


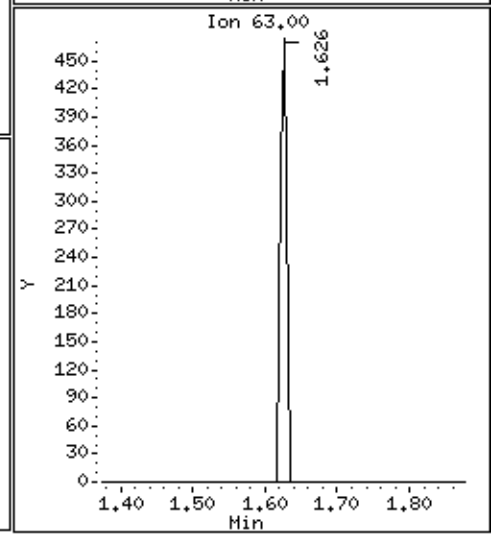












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

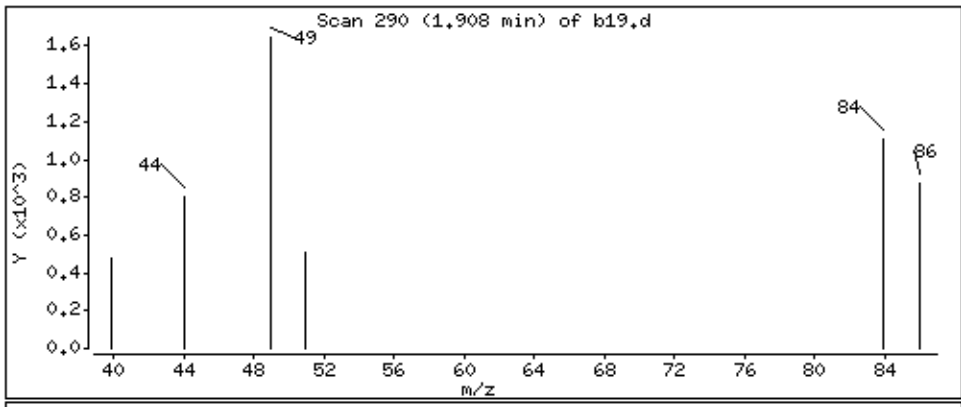
Operator: grm

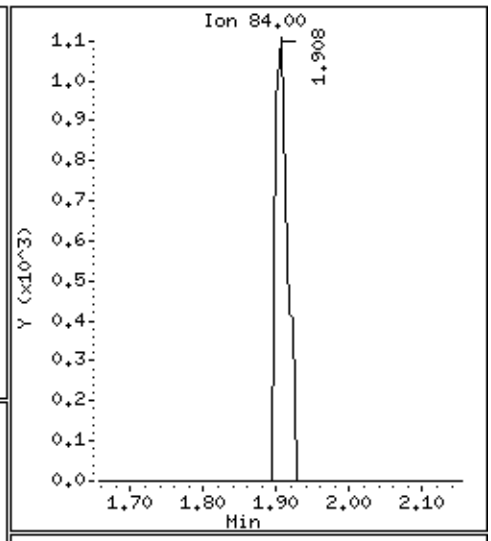
Column phase: DB-624

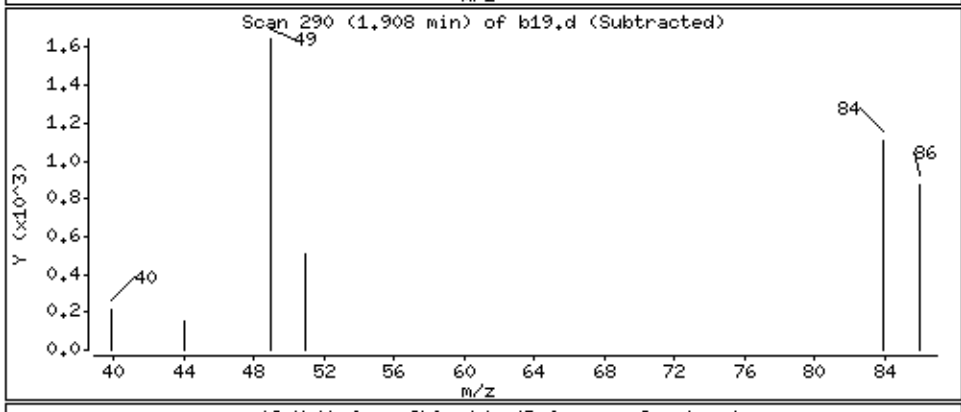
Column diameter: 0.18

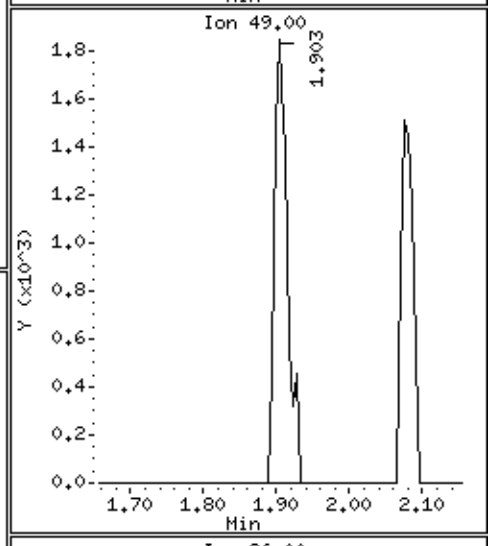
18 Methylene Chloride

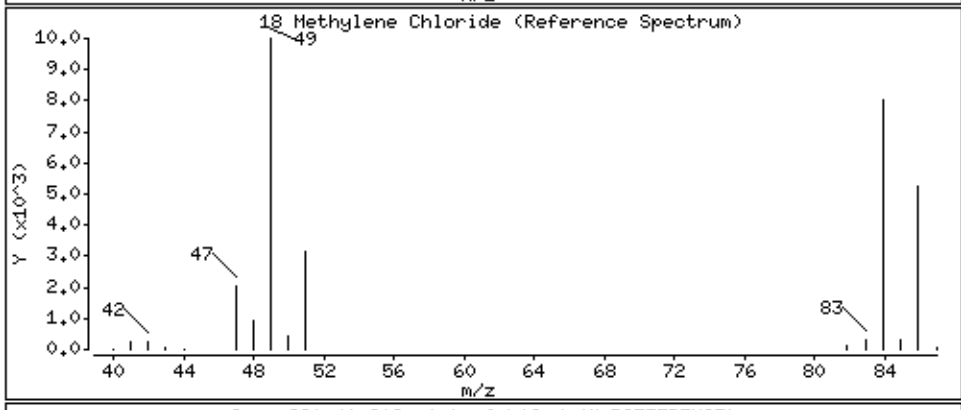
Concentration: 4.74 ppb

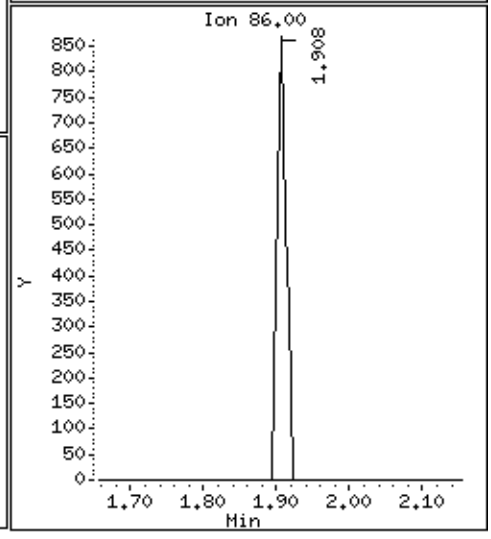


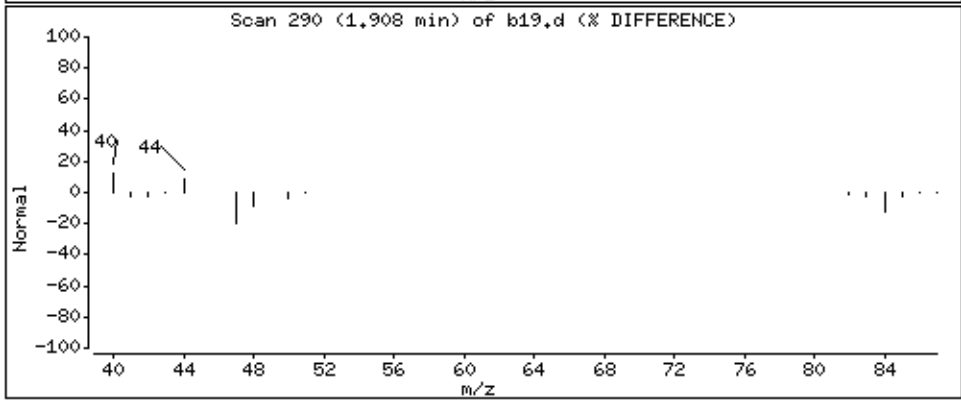












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

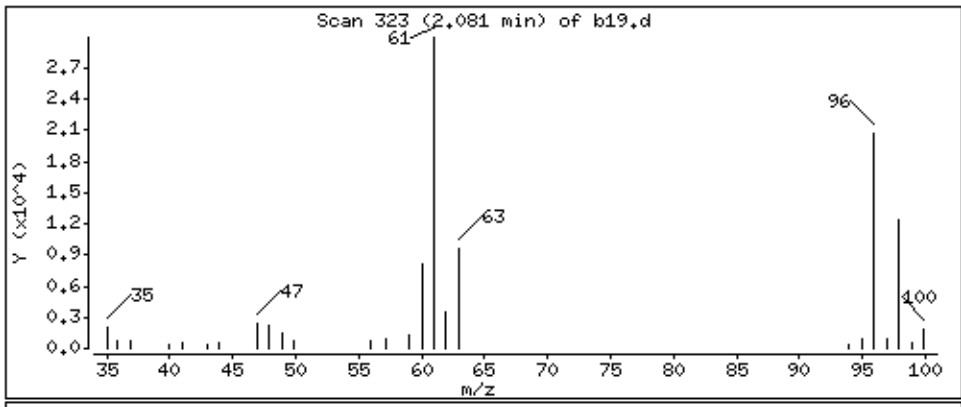
Operator: grm

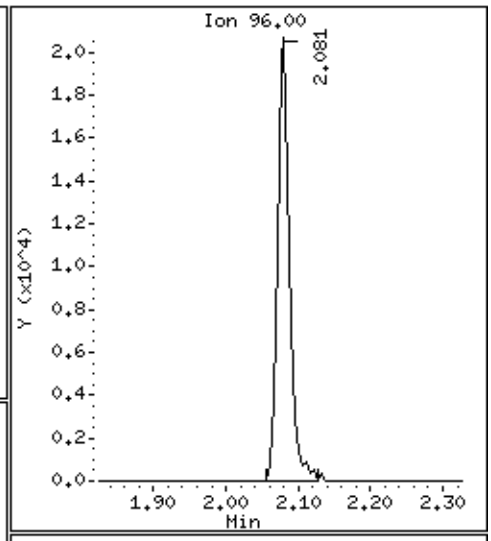
Column phase: DB-624

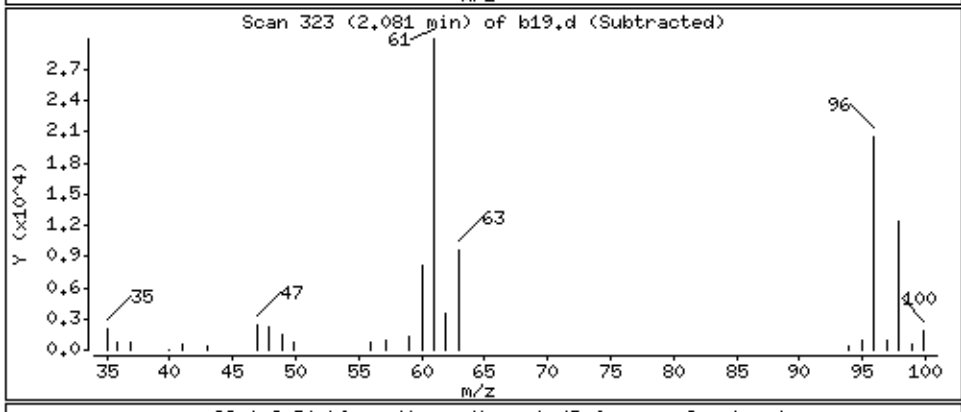
Column diameter: 0.18

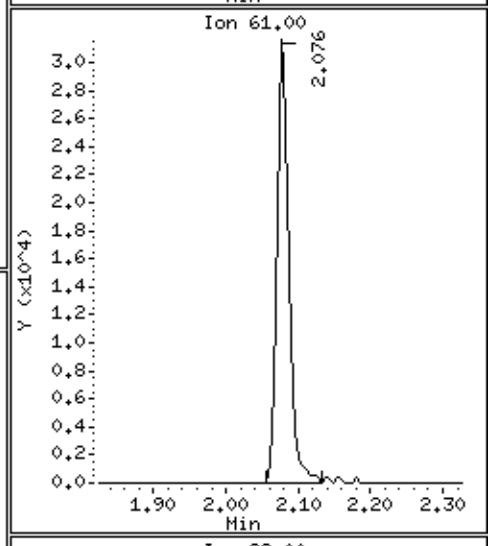
22 1,2-Dichloroethene (trans)

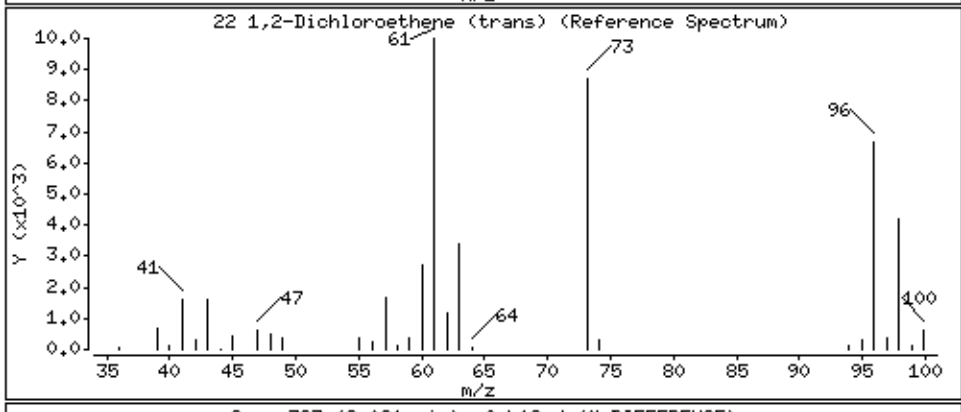
Concentration: 92.2 ppb

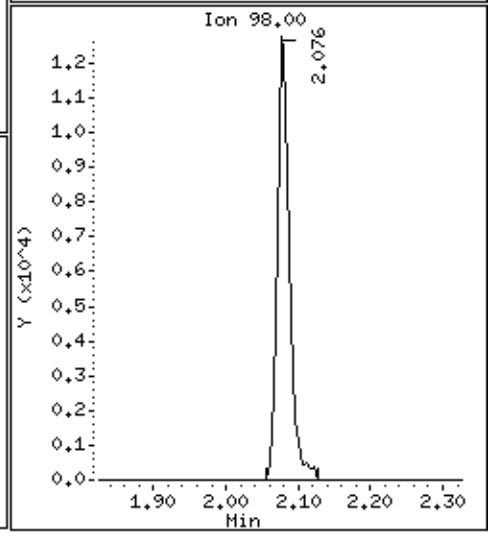


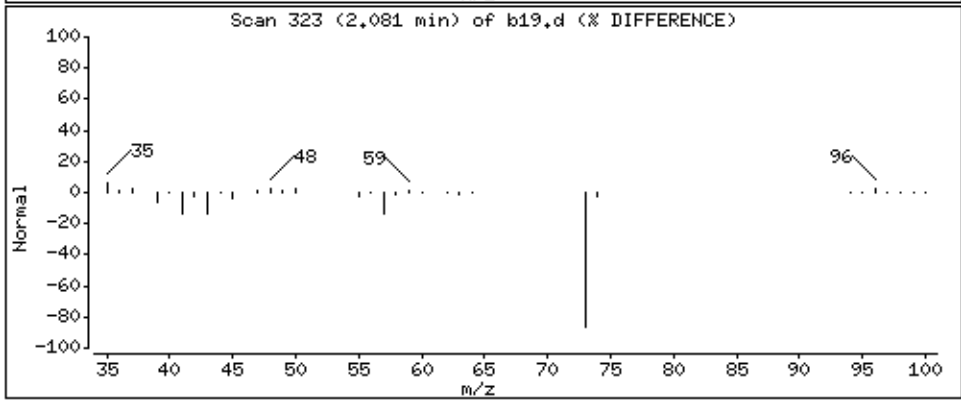












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

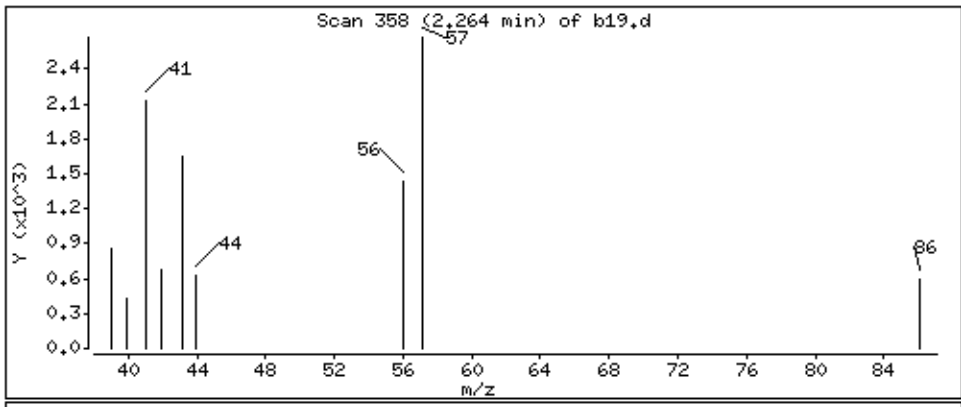
Operator: grm

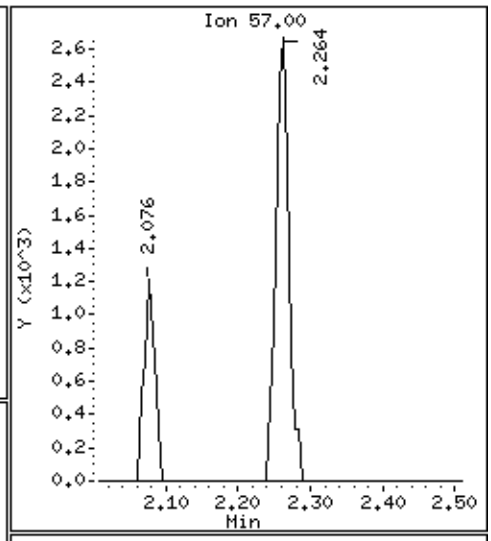
Column phase: DB-624

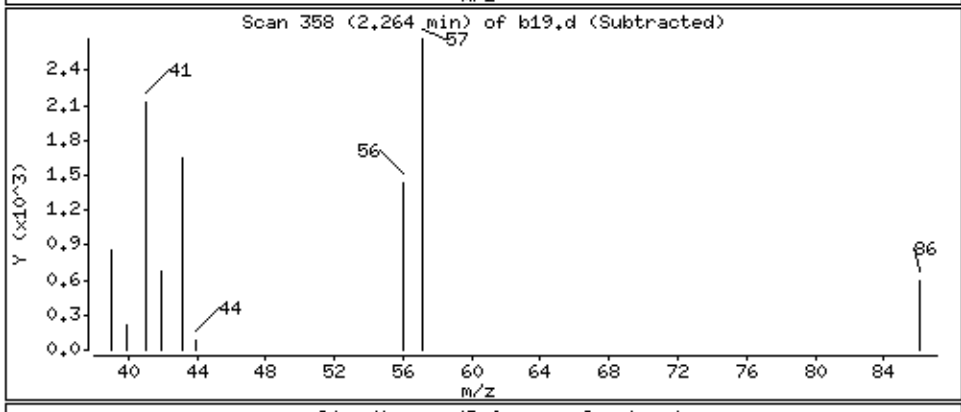
Column diameter: 0.18

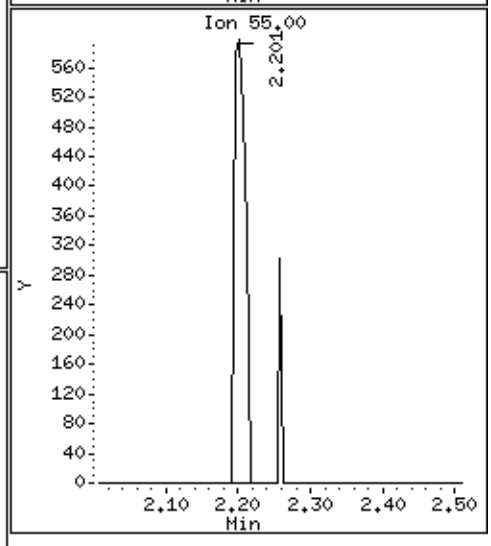
24 n-Hexane

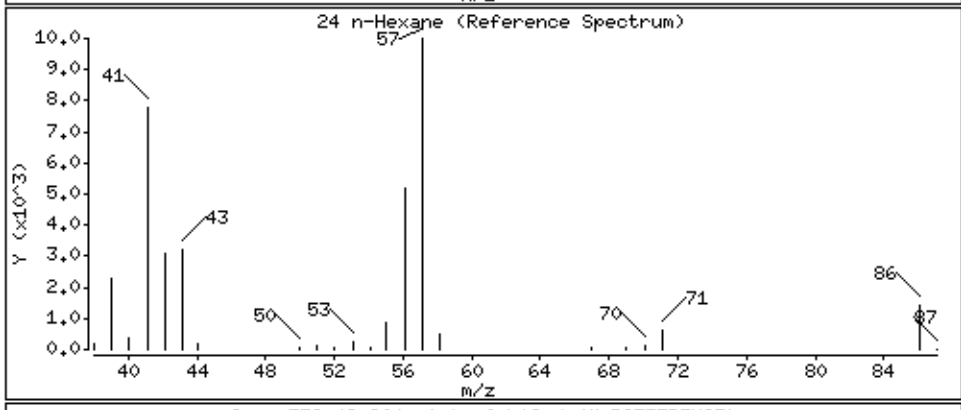
Concentration: 7.30 ppb

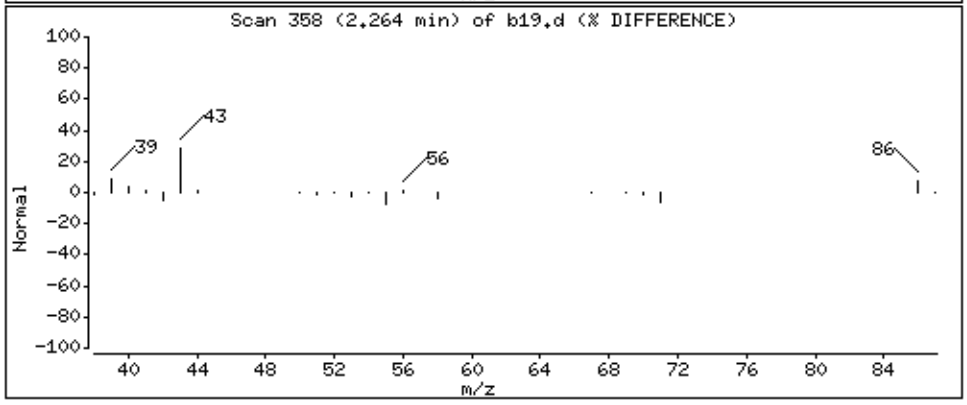












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

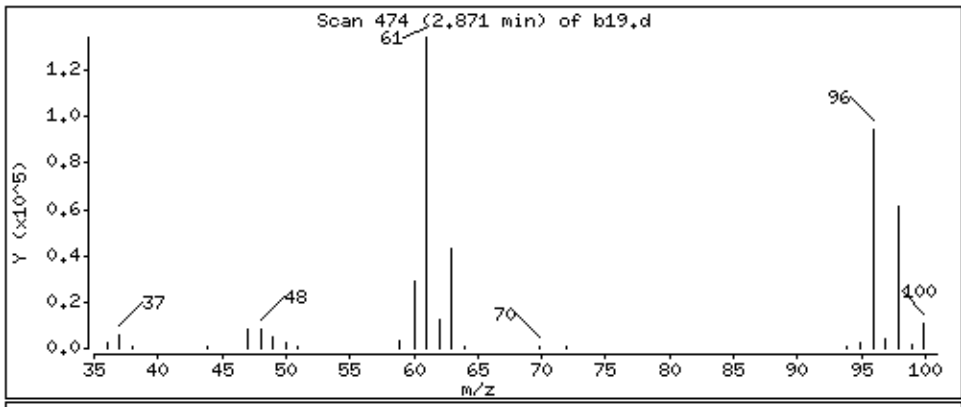
Operator: grm

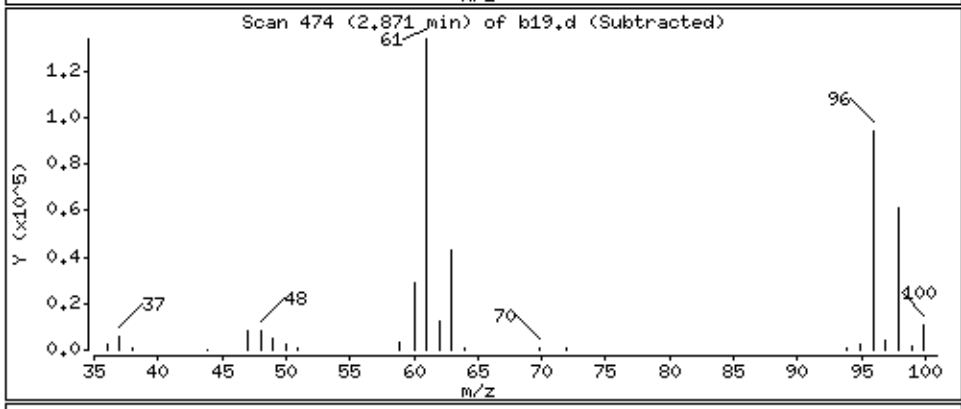
Column phase: DB-624

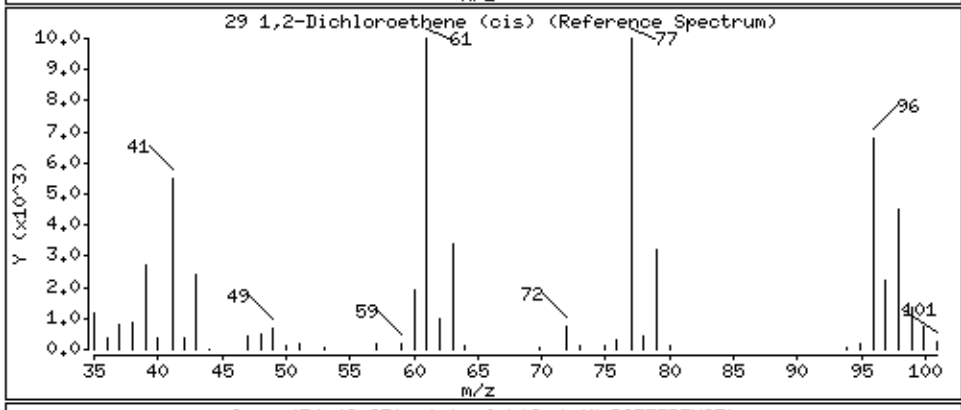
Column diameter: 0.18

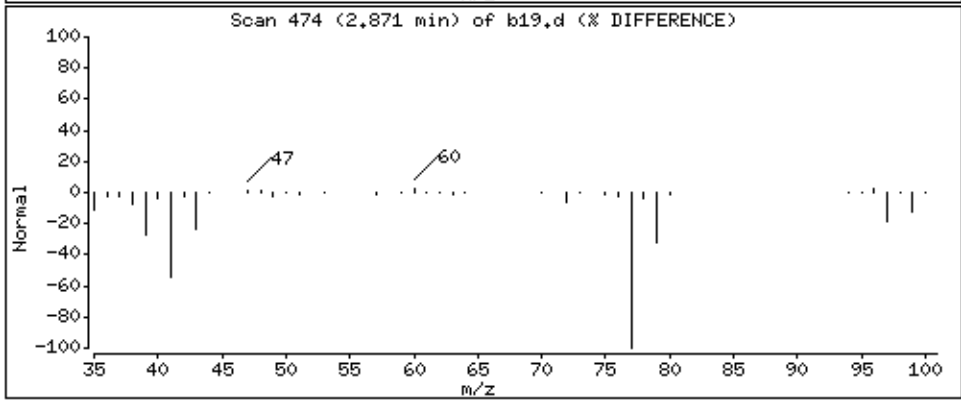
29 1,2-Dichloroethene (cis)

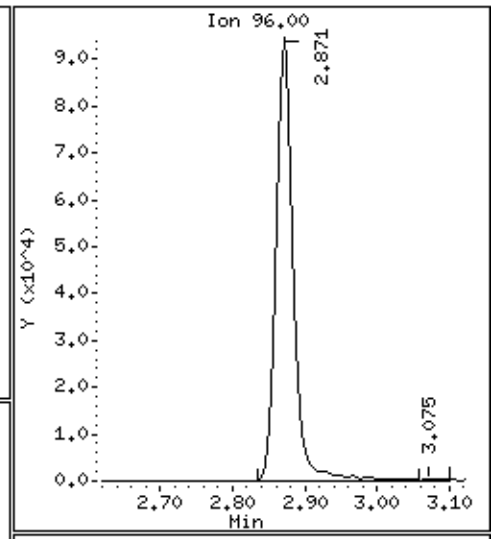
Concentration: 571 ppb

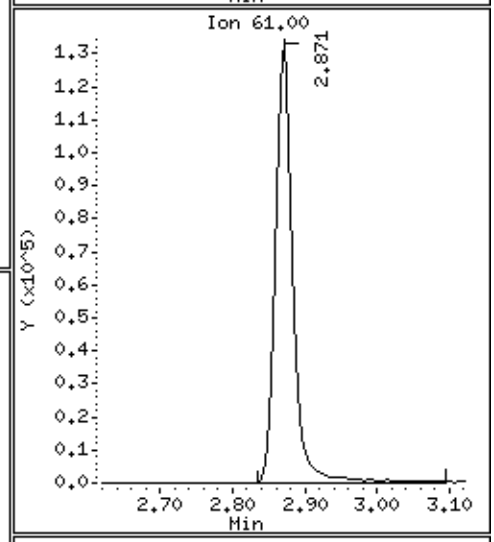


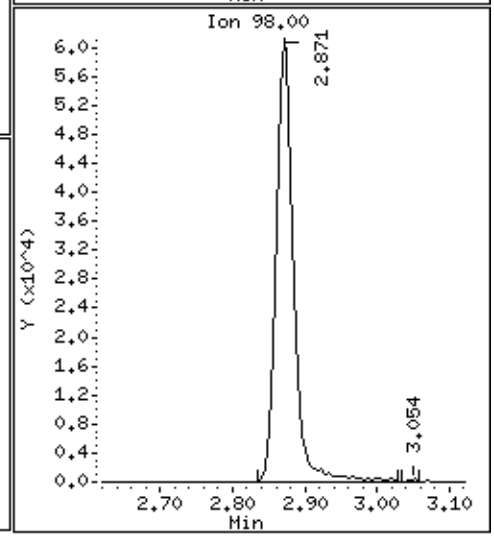












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

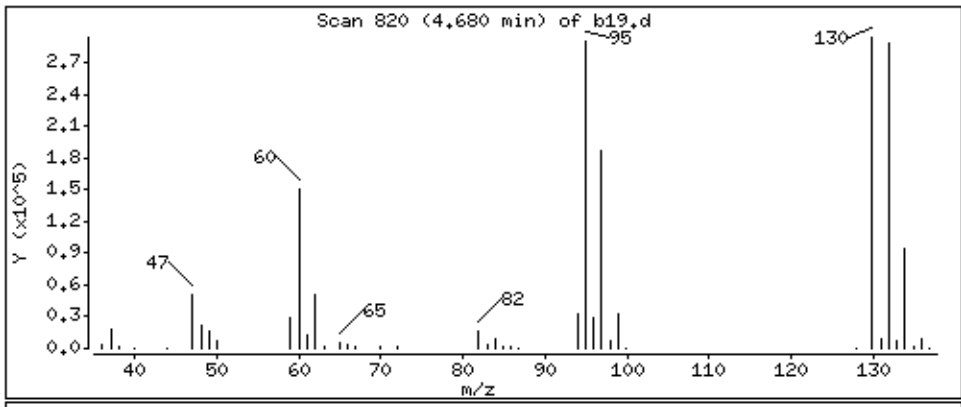
Operator: grm

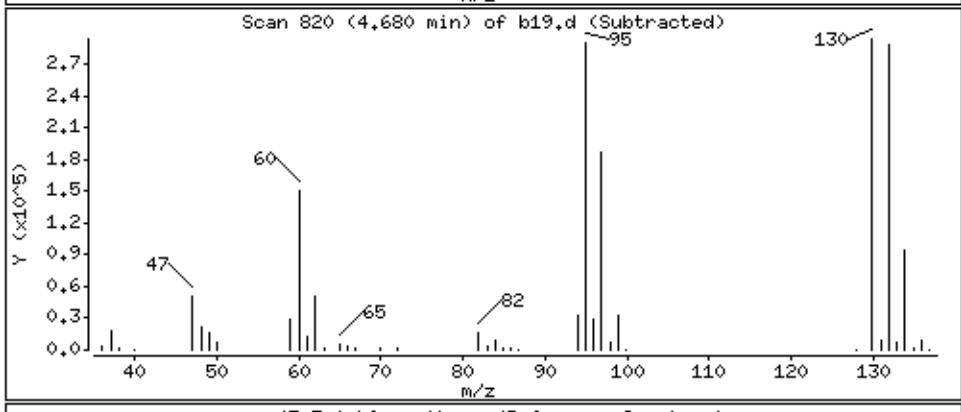
Column phase: DB-624

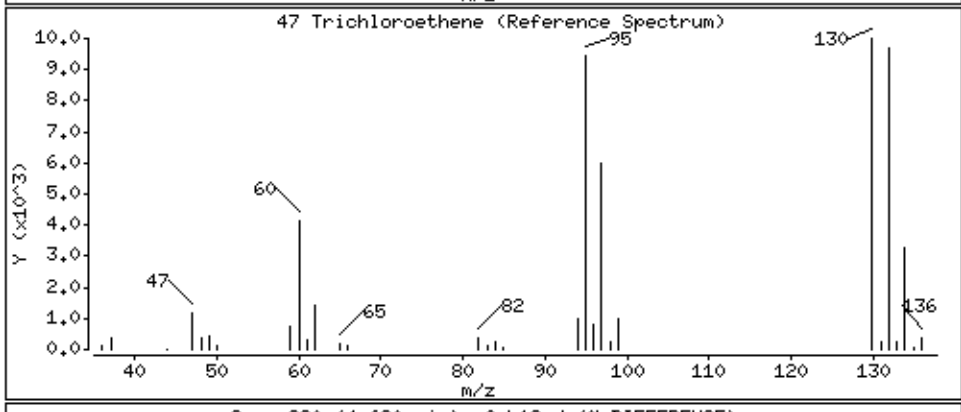
Column diameter: 0.18

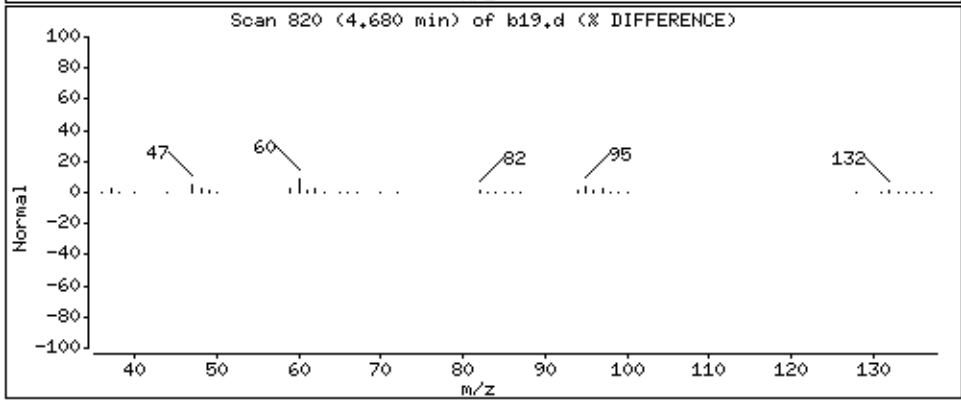
47 Trichloroethene

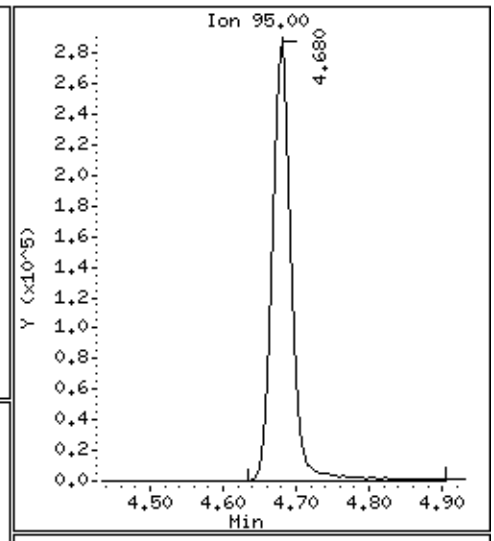
Concentration: 1970 ppb

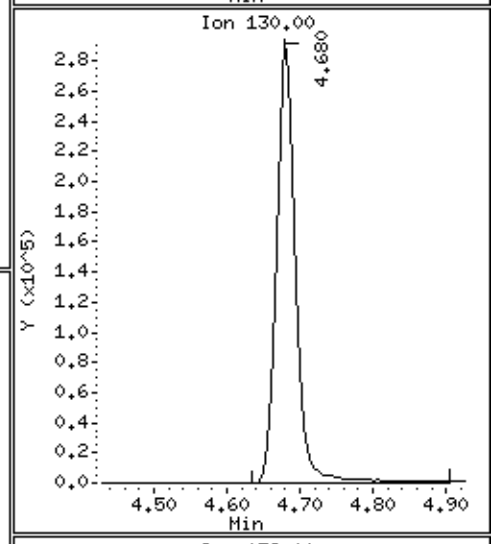


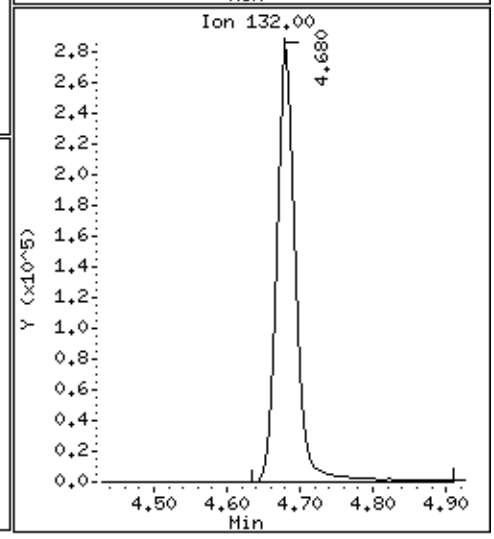












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

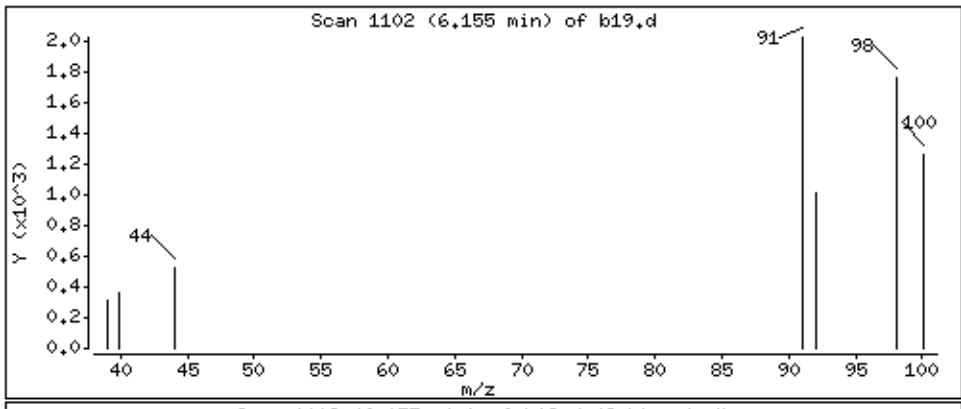
Operator: grm

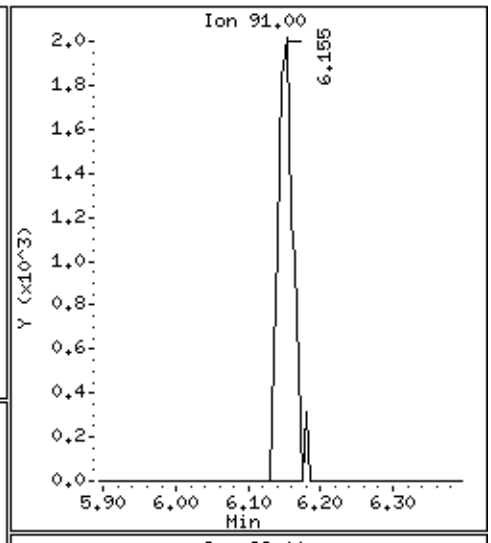
Column phase: DB-624

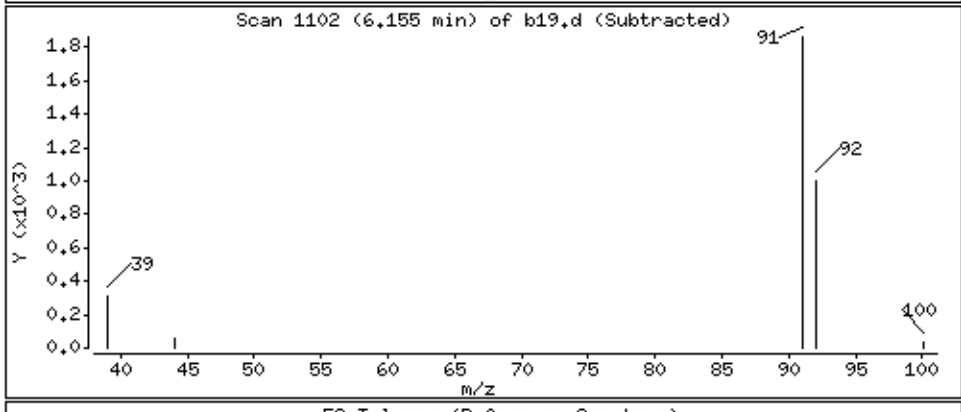
Column diameter: 0.18

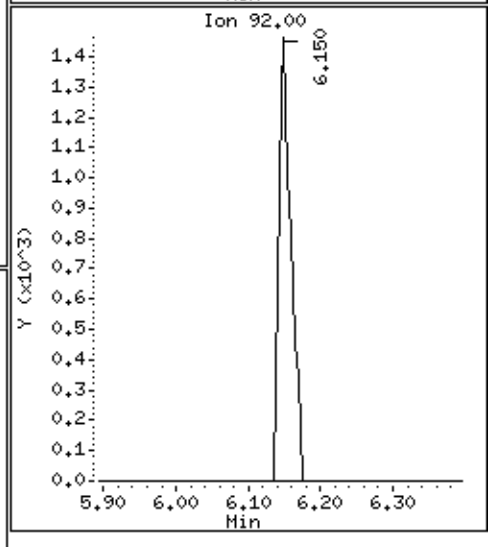
58 Toluene

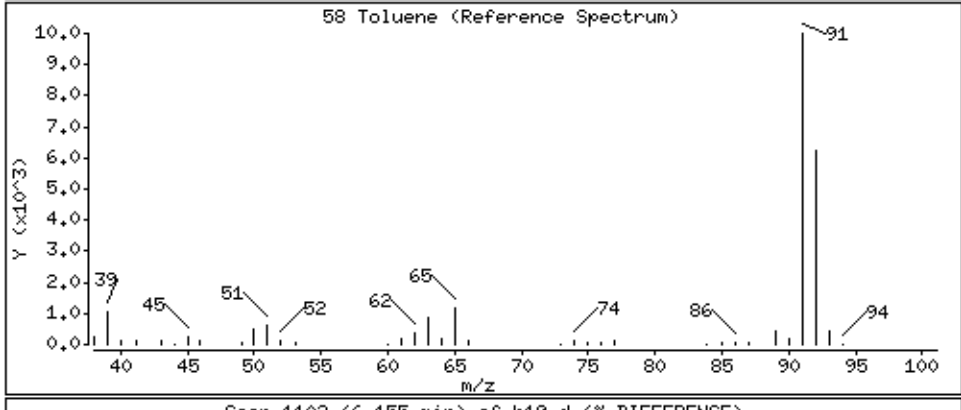
Concentration: 2.42 ppb

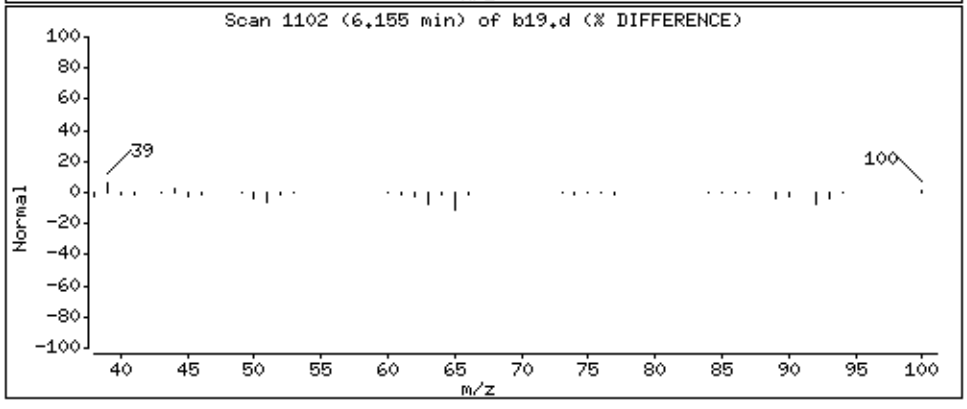












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b19.d

Date : 17-MAR-2016 22:48

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x5

Purge Volume: 5.0

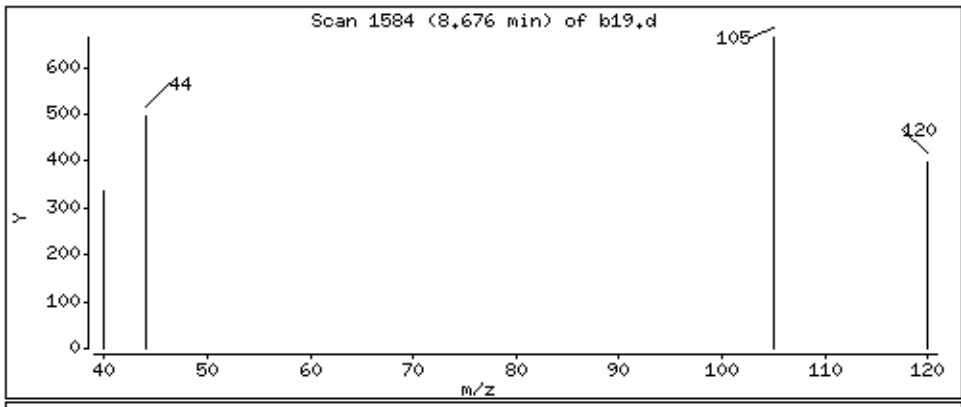
Operator: grm

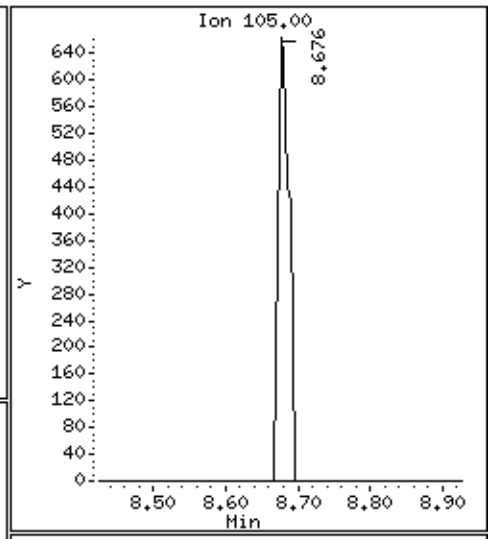
Column phase: DB-624

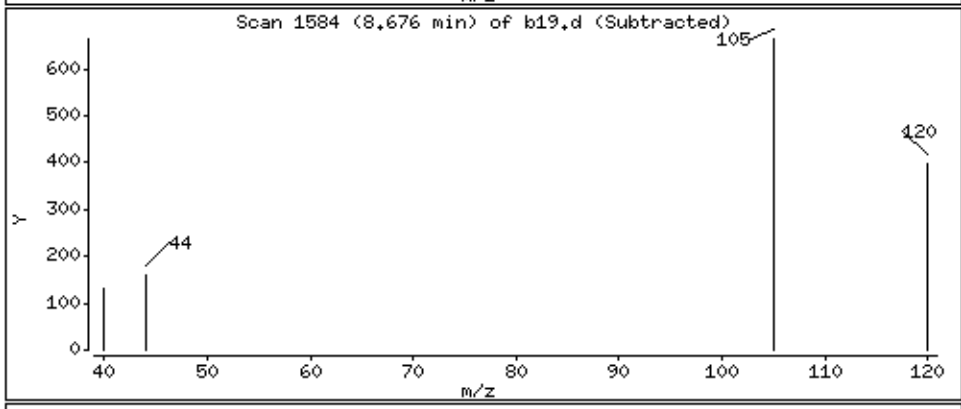
Column diameter: 0.18

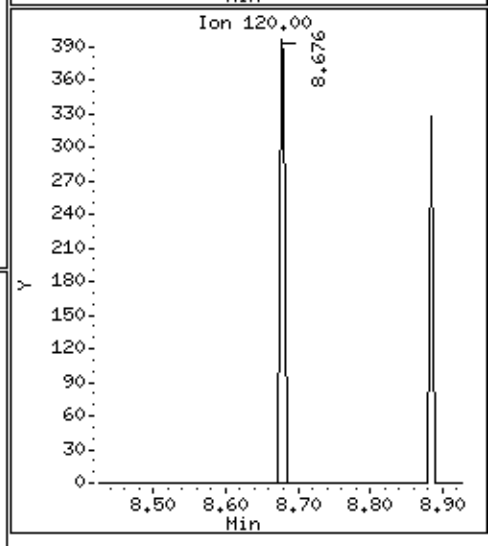
87 1,2,4-Trimethylbenzene

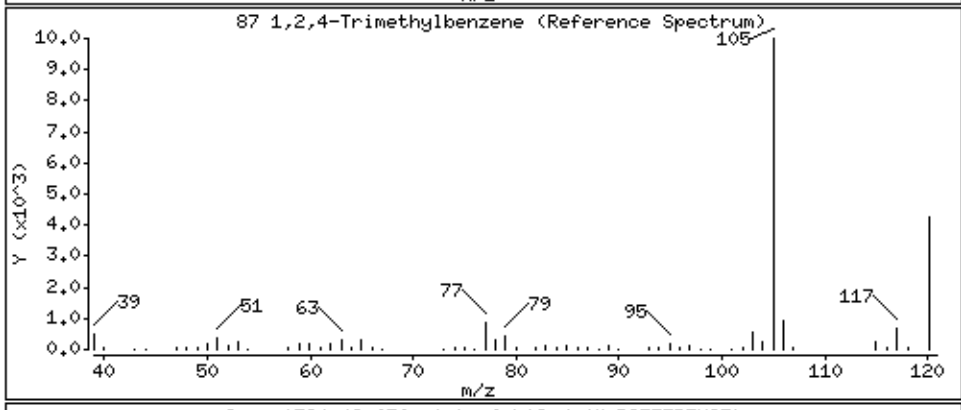
Concentration: 0.628 ppb

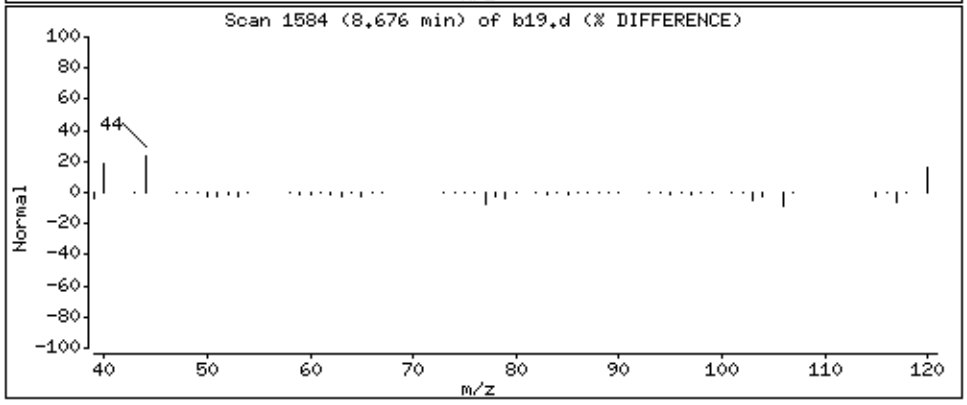












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b19.d
Injection Date: 17-MAR-2016 22:48
Instrument: 50mv1b.i
Lab Sample ID: 50140212004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0504-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 23:23 Lab Sample ID: 50140212004

Date Analyzed: 03/17/2016 23:23 Lab File ID: B031716.B\B20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 25 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	1820	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d
Lab Smp Id: 50140212004 Client Smp ID: MW-0504-S1(030916)
Inj Date : 17-MAR-2016 23:23
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212004x25
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 71
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

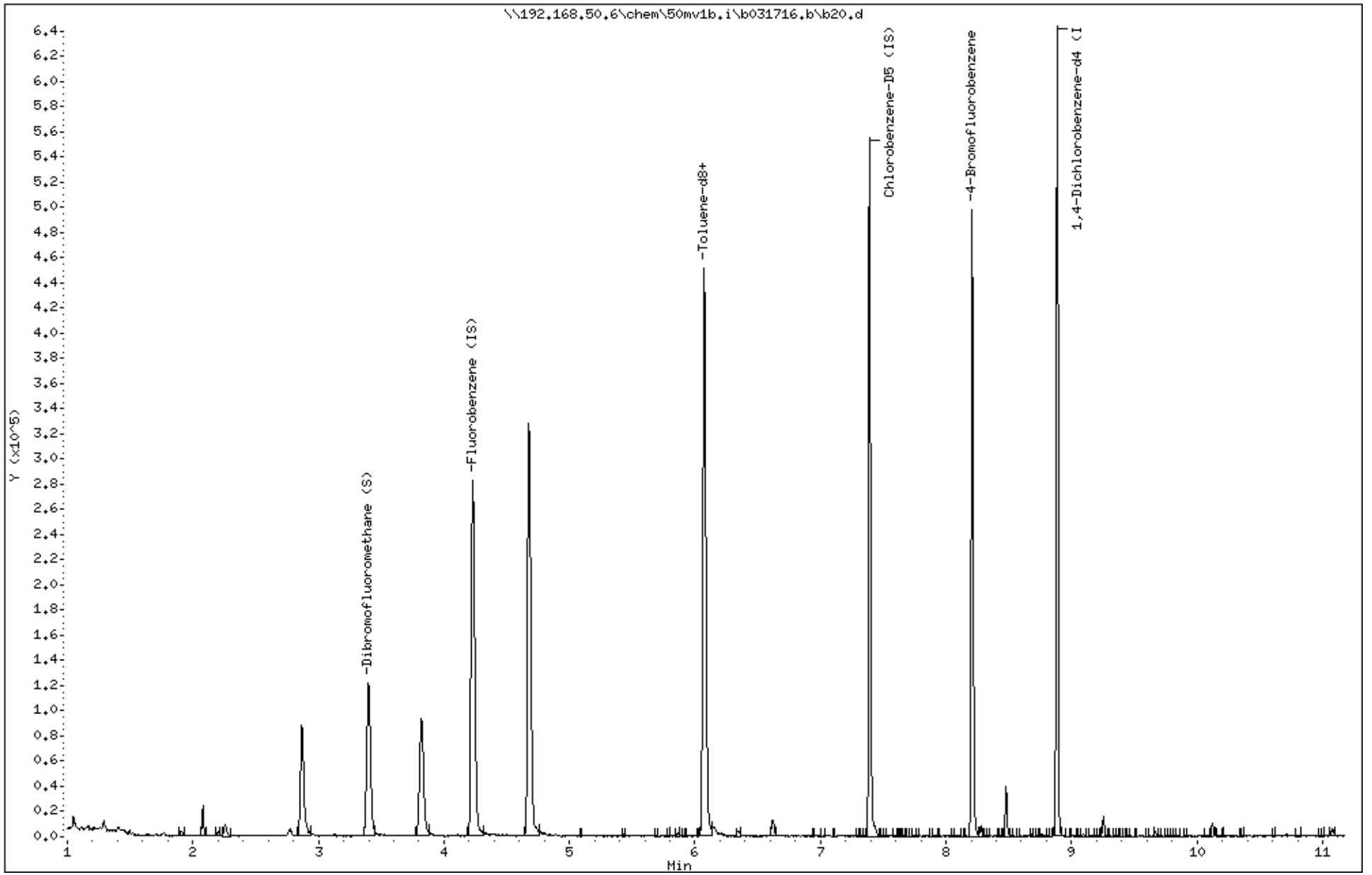
Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	697	0.27246	6.81	
	7 Diethyl ether	74	1.497	1.496	(0.354)	516	0.77277	19.3	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	1160	0.72844	18.2	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	5319	3.61280	90.3	
	24 n-Hexane	57	2.256	2.260	(0.533)	3067	1.18450	29.6	
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.679)	33622	21.9306	548	
$	38 Dibromofluoromethane (S)	113	3.396	3.395	(0.802)	77214	53.3135	53.3	
*	46 Fluorobenzene (IS)	96	4.233	4.231	(1.000)	278902	50.0000		
	47 Trichloroethene	95	4.677	4.681	(1.105)	108653	72.8921	1820	
$	57 Toluene-d8	98	6.074	6.072	(0.822)	270227	48.0127	48.0	
	58 Toluene	91	6.147	6.146	(0.832)	2809	0.40691	10.2	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.390	(1.000)	216759	50.0000		
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	98554	50.0860	50.1	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.886	(1.000)	113072	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d
Date : 17-MAR-2016 23:23
Client ID: MW-0504-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212004x25
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

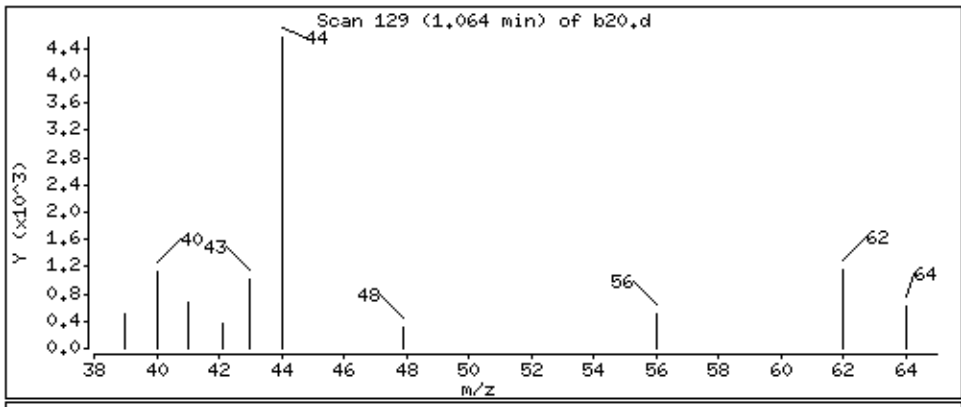
Operator: grm

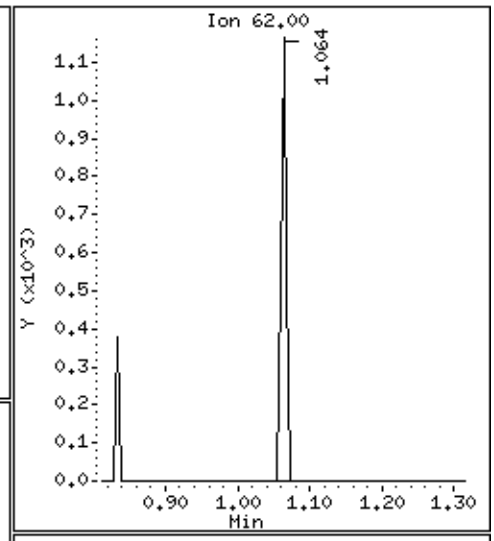
Column phase: DB-624

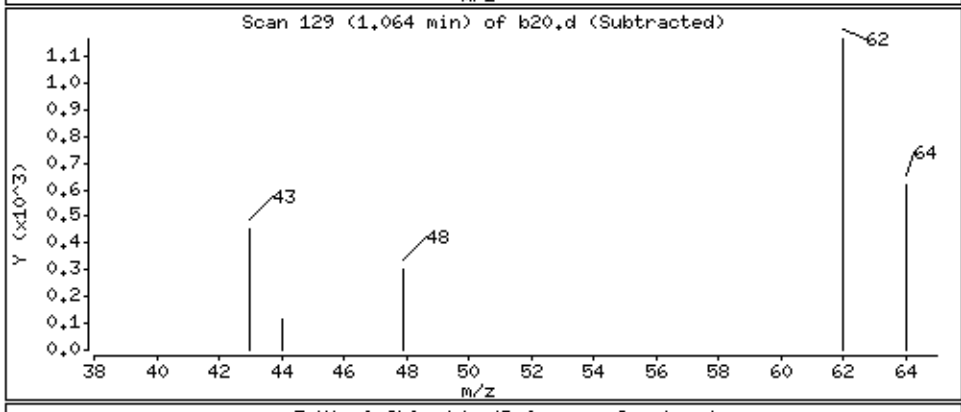
Column diameter: 0.18

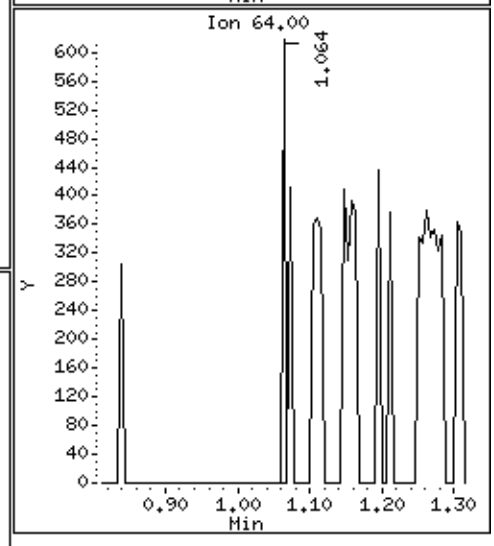
3 Vinyl Chloride

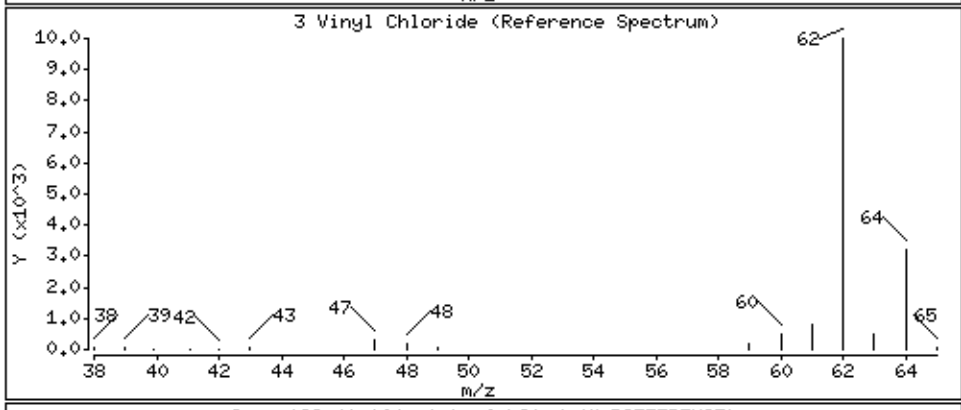
Concentration: 6.81 ppb

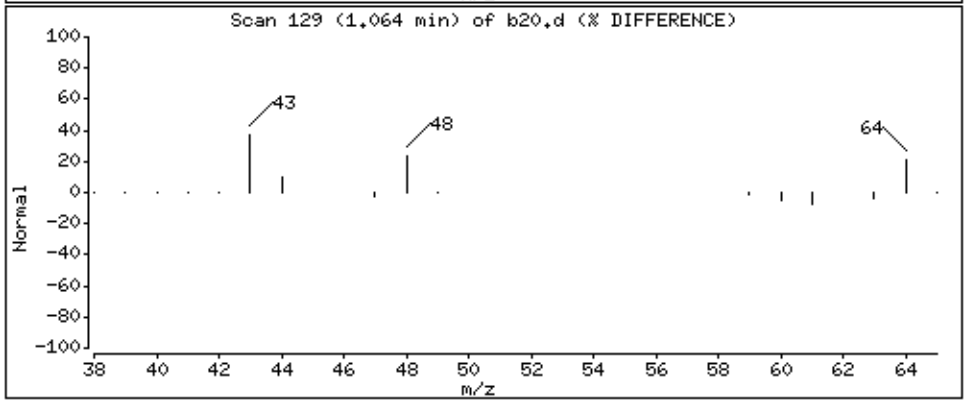












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

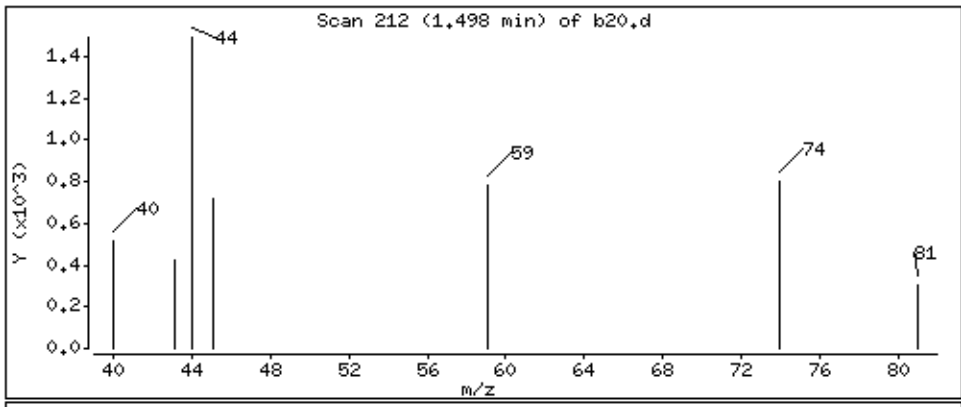
Operator: grm

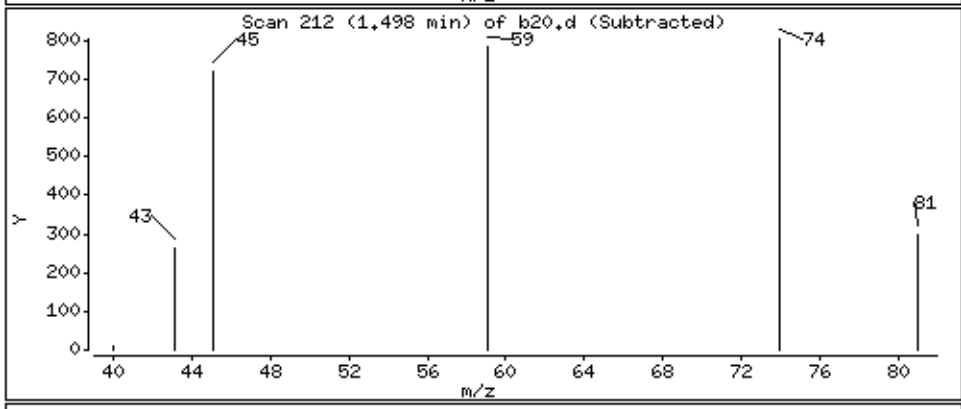
Column phase: DB-624

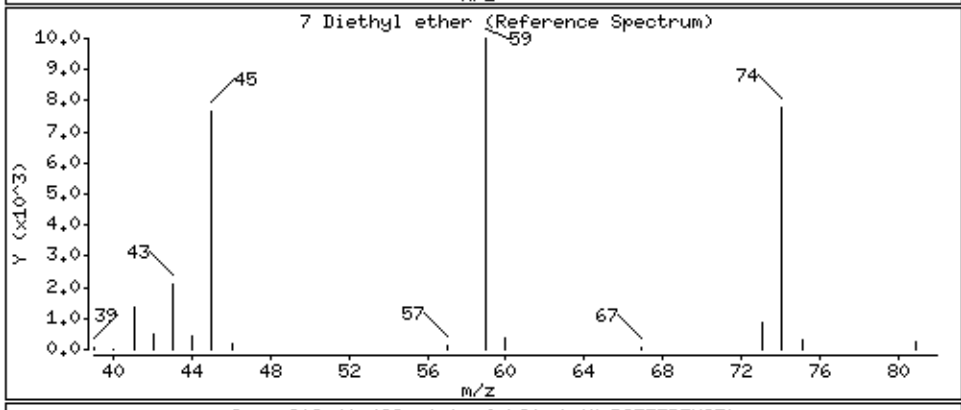
Column diameter: 0.18

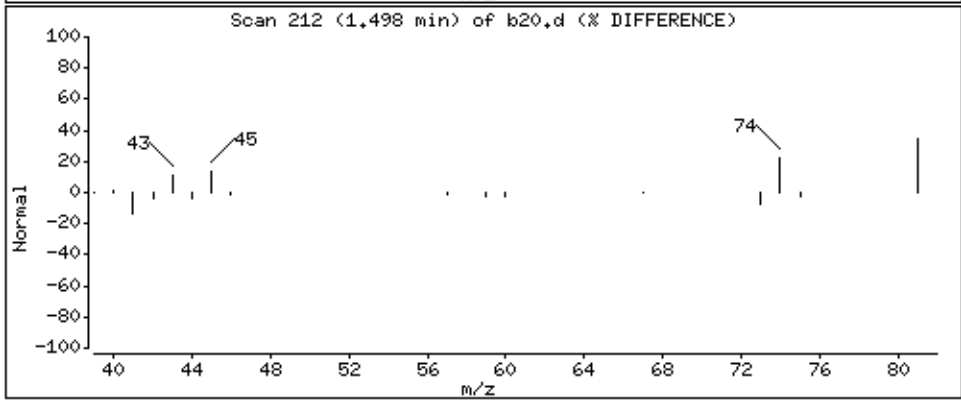
7 Diethyl ether

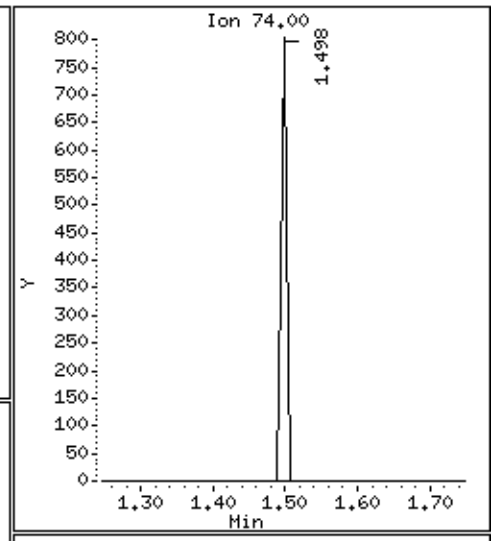
Concentration: 19.3 ppb

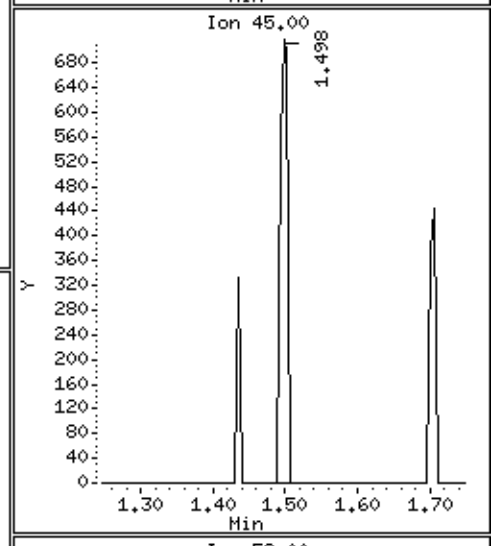


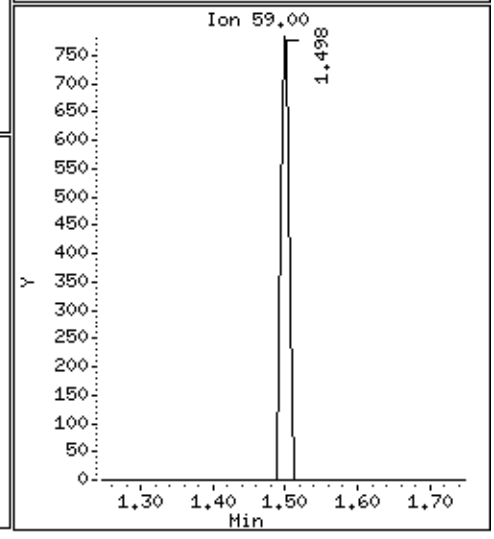












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

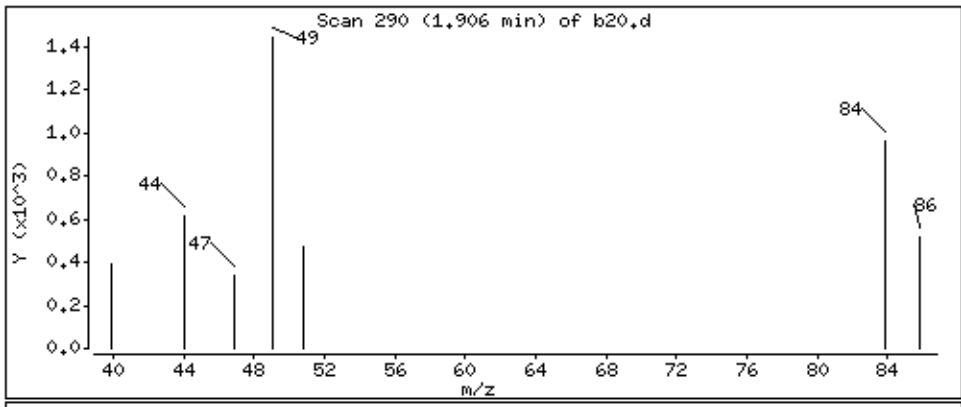
Operator: grm

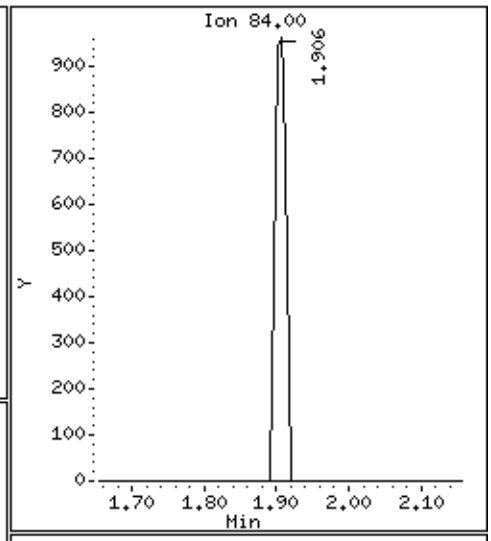
Column phase: DB-624

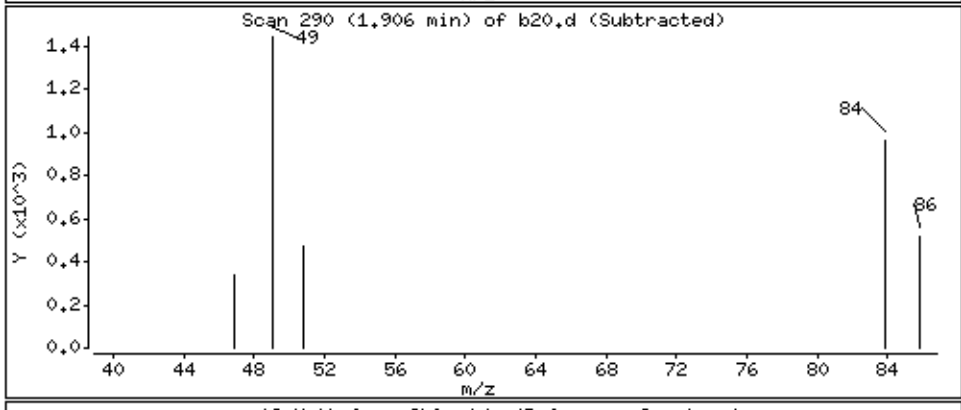
Column diameter: 0.18

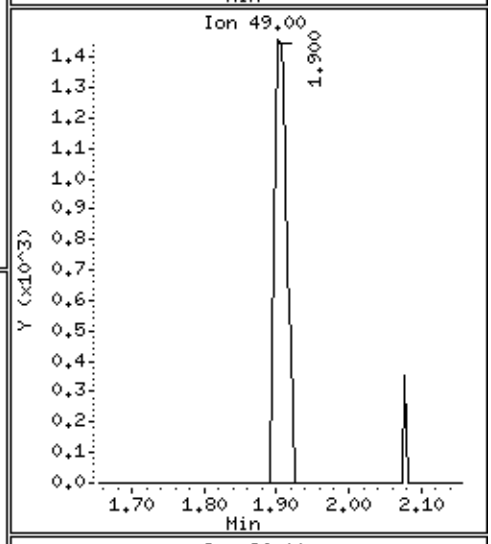
18 Methylene Chloride

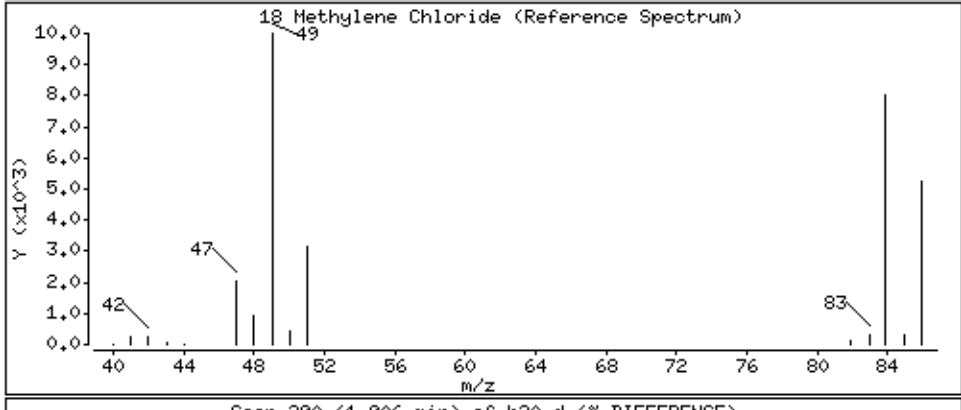
Concentration: 18.2 ppb

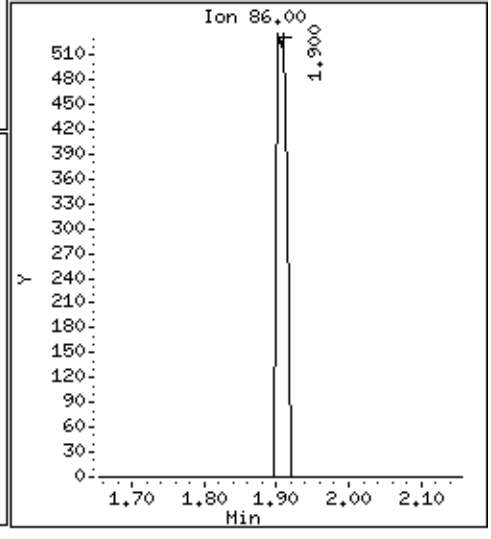


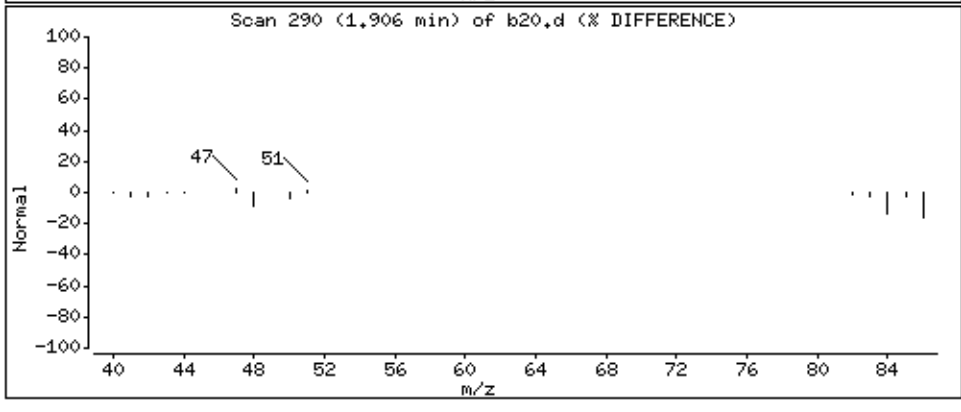












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

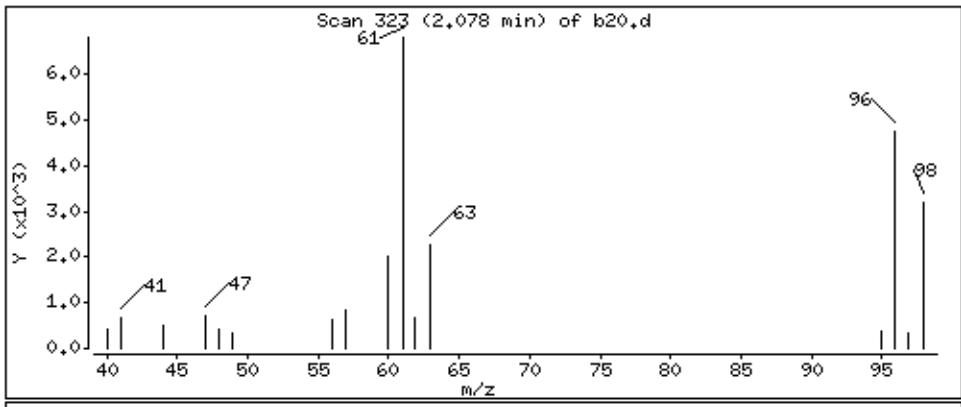
Operator: grm

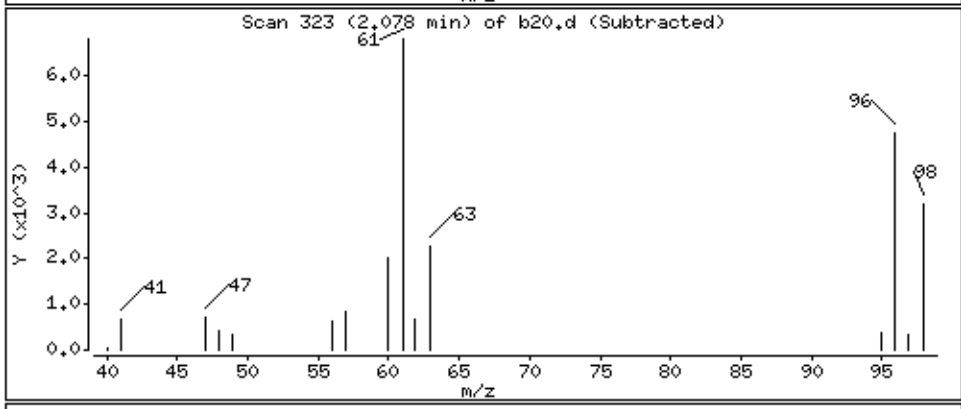
Column phase: DB-624

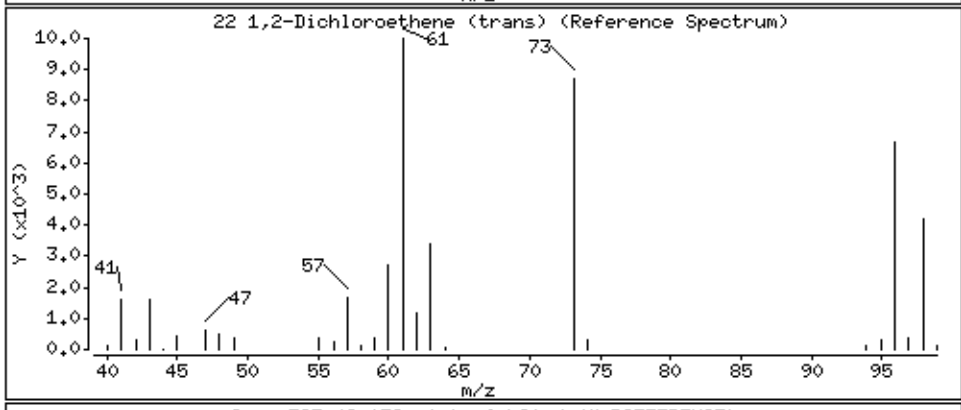
Column diameter: 0.18

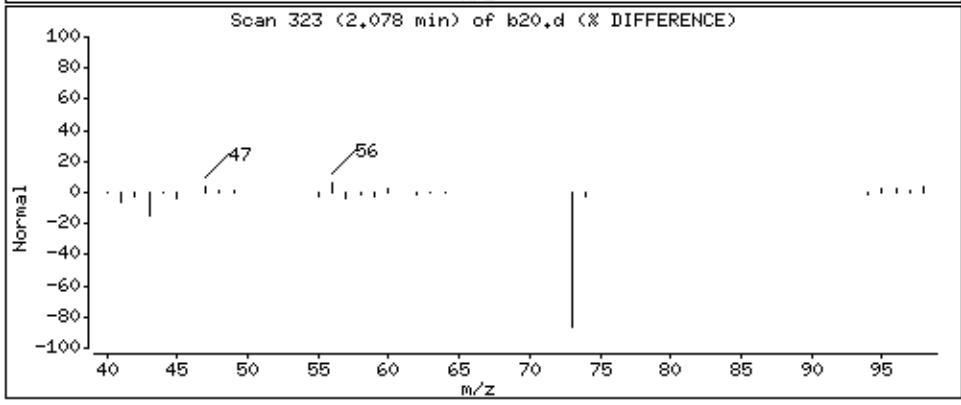
22 1,2-Dichloroethene (trans)

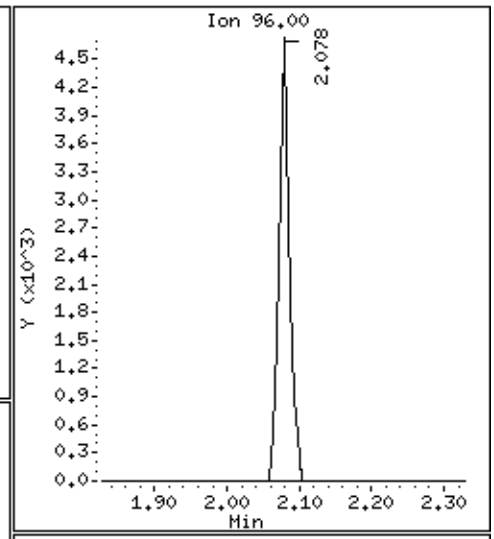
Concentration: 90.3 ppb

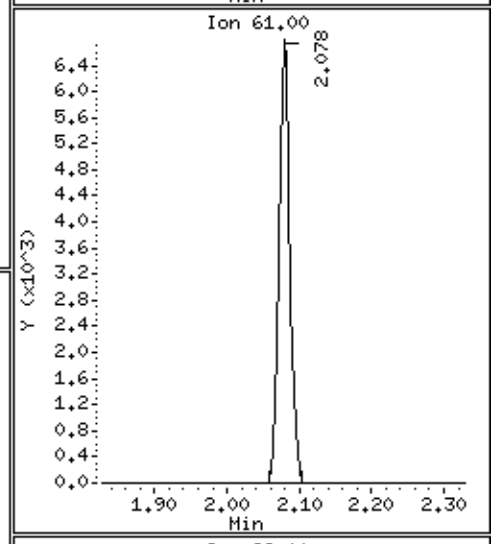


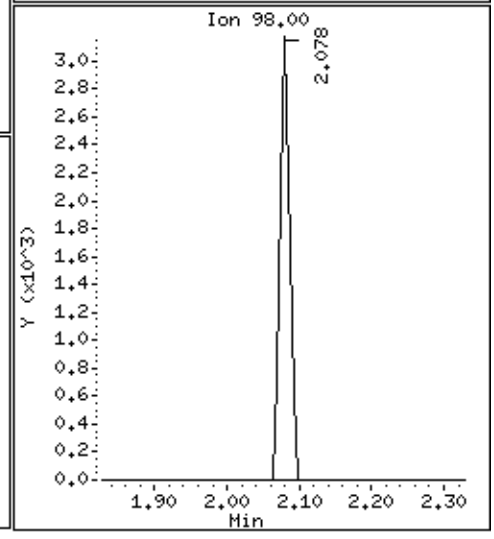












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

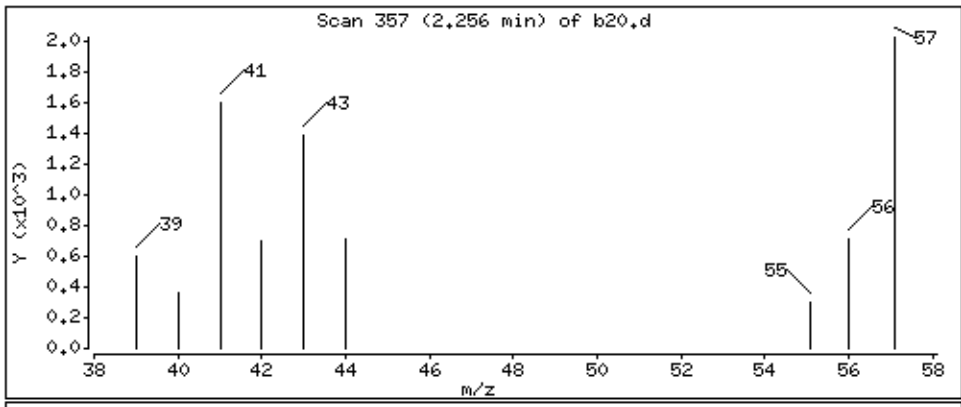
Operator: grm

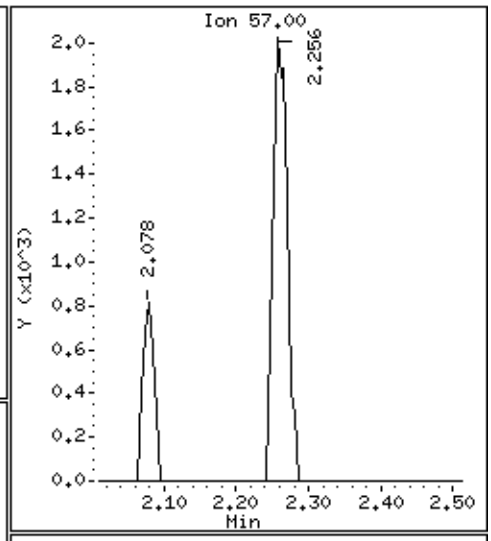
Column phase: DB-624

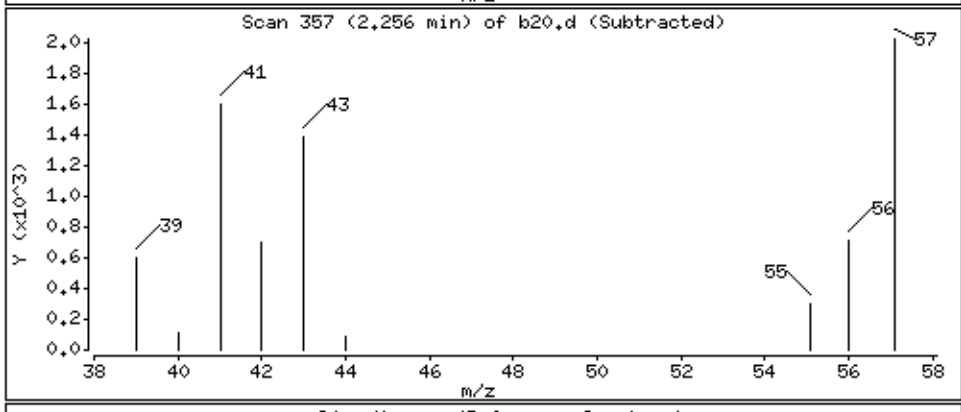
Column diameter: 0.18

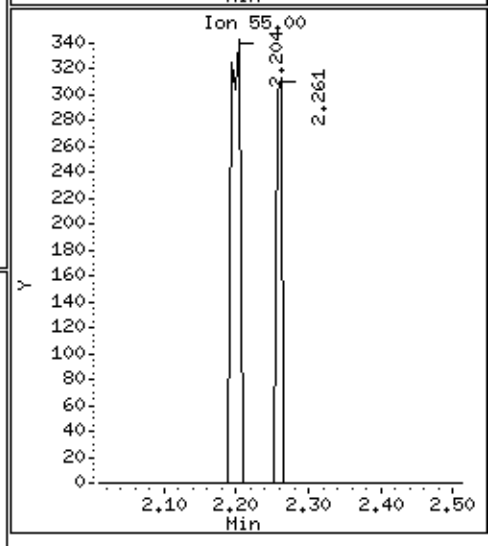
24 n-Hexane

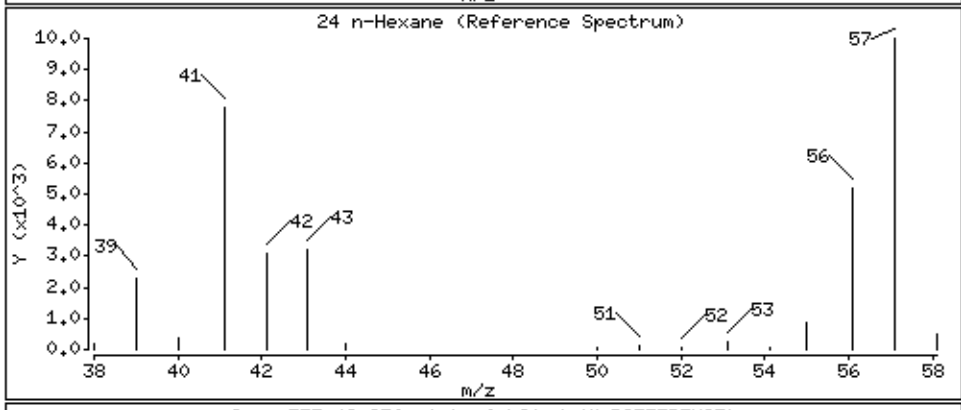
Concentration: 29.6 ppb

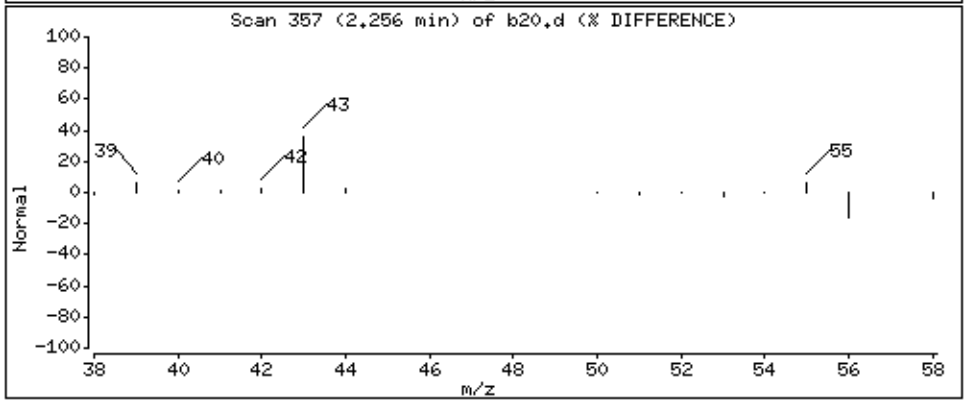












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

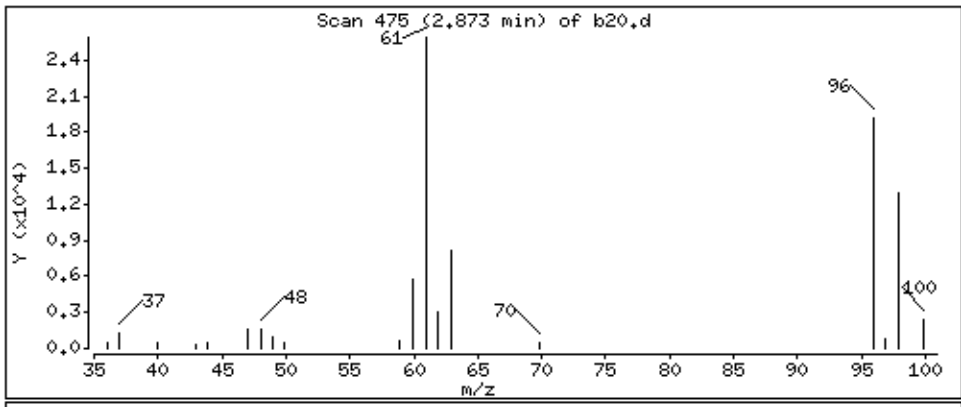
Operator: grm

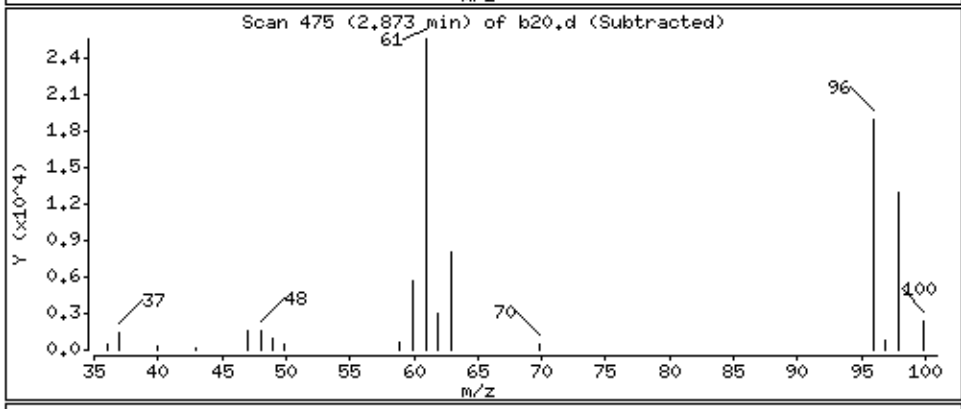
Column phase: DB-624

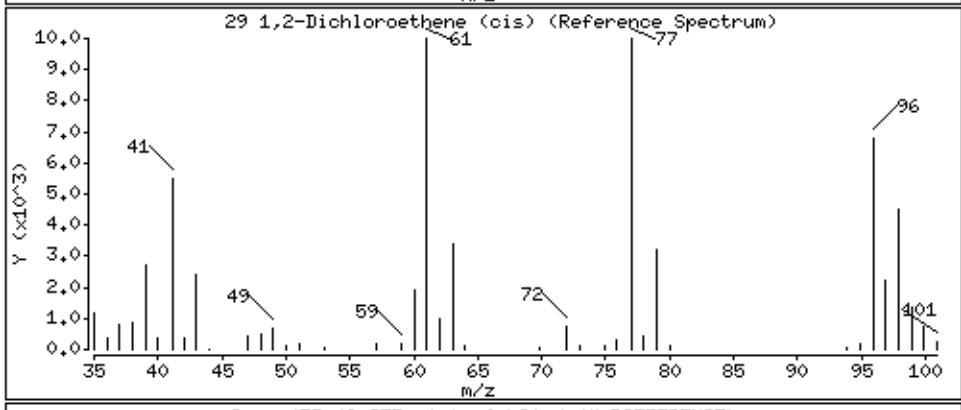
Column diameter: 0.18

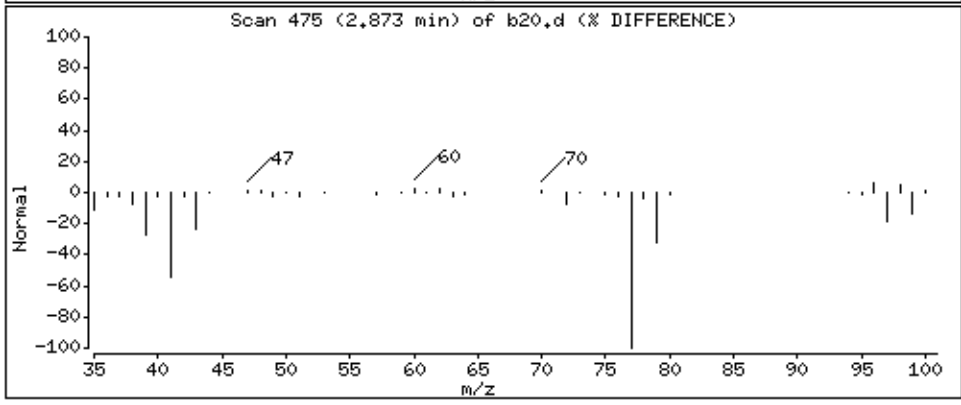
29 1,2-Dichloroethene (cis)

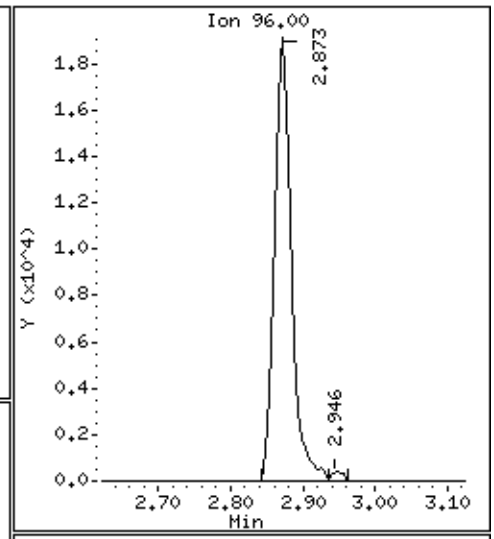
Concentration: 548 ppb

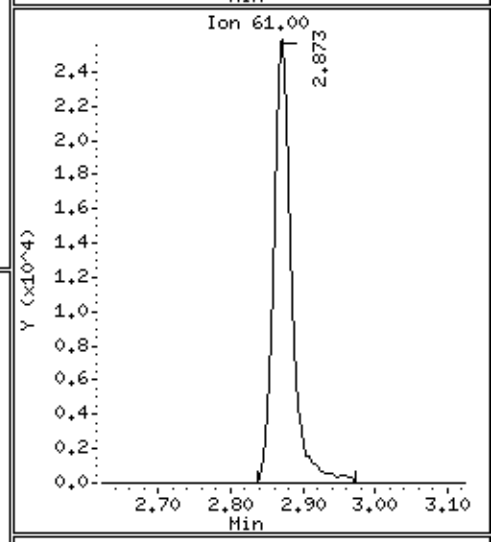


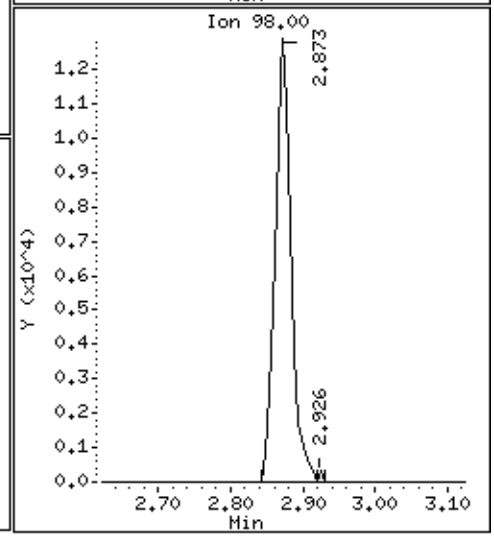












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

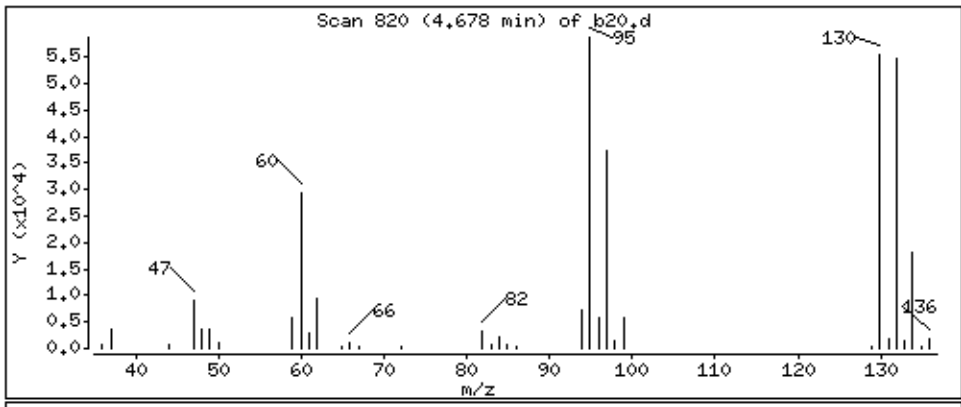
Operator: grm

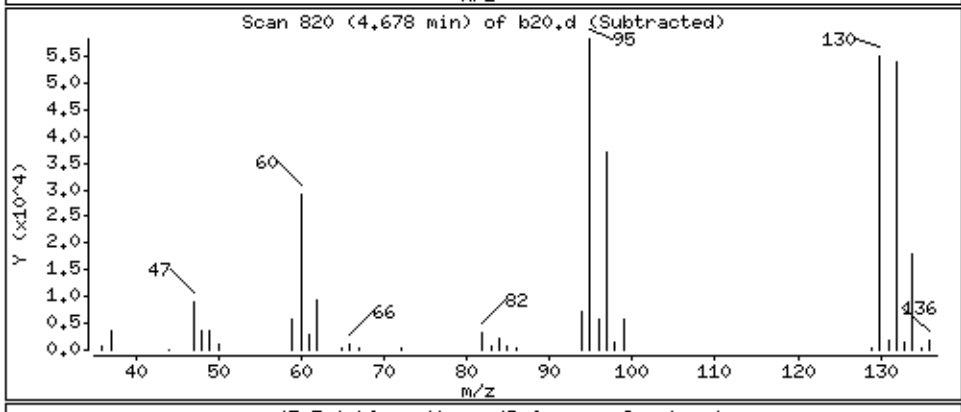
Column phase: DB-624

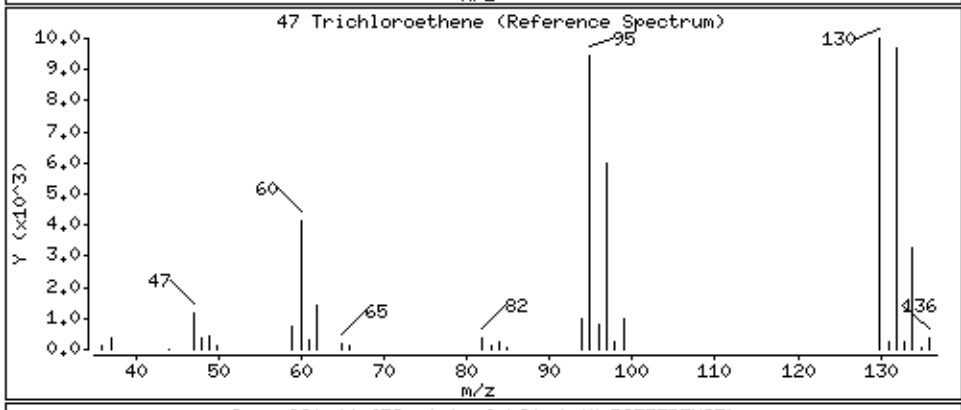
Column diameter: 0.18

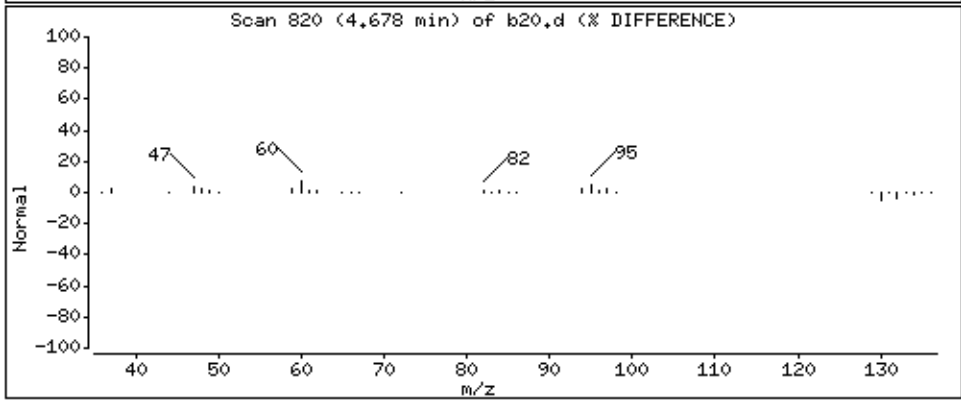
47 Trichloroethene

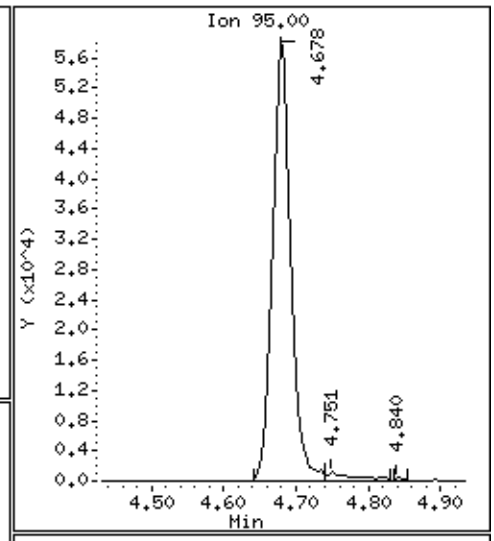
Concentration: 1820 ppb

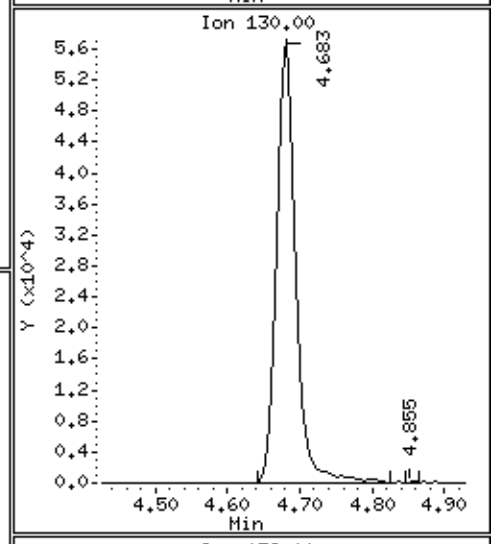


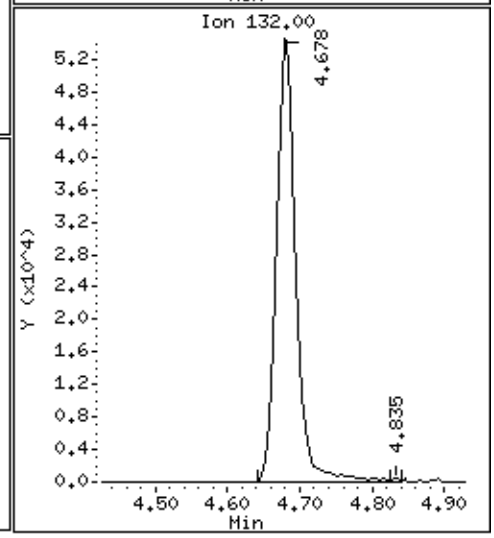












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b20.d

Date : 17-MAR-2016 23:23

Client ID: MW-0504-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212004x25

Purge Volume: 5.0

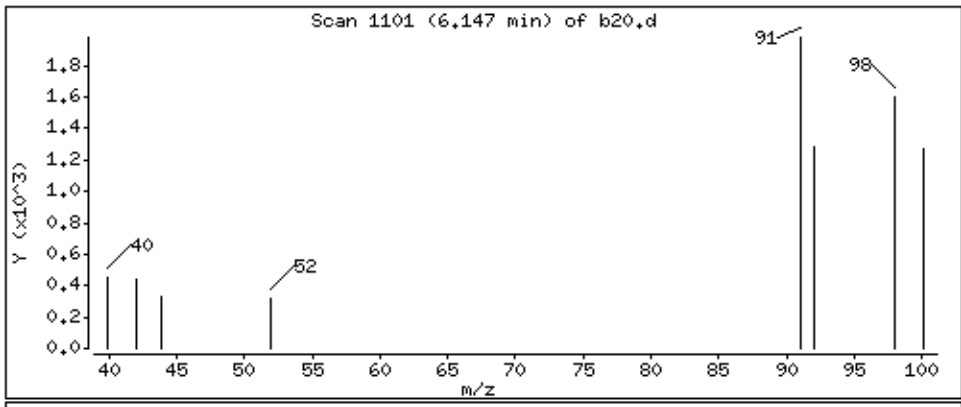
Operator: grm

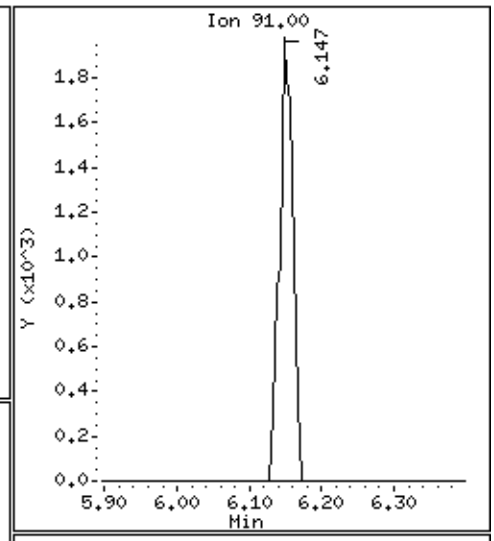
Column phase: DB-624

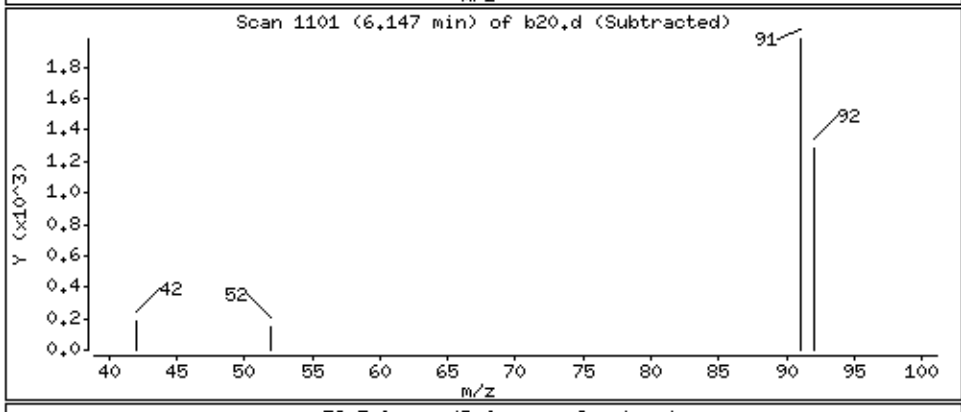
Column diameter: 0.18

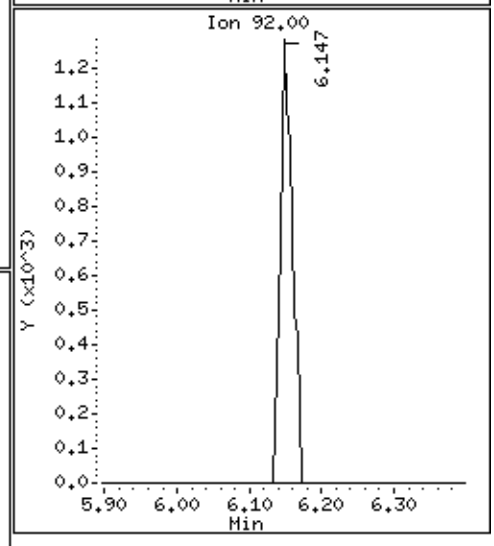
58 Toluene

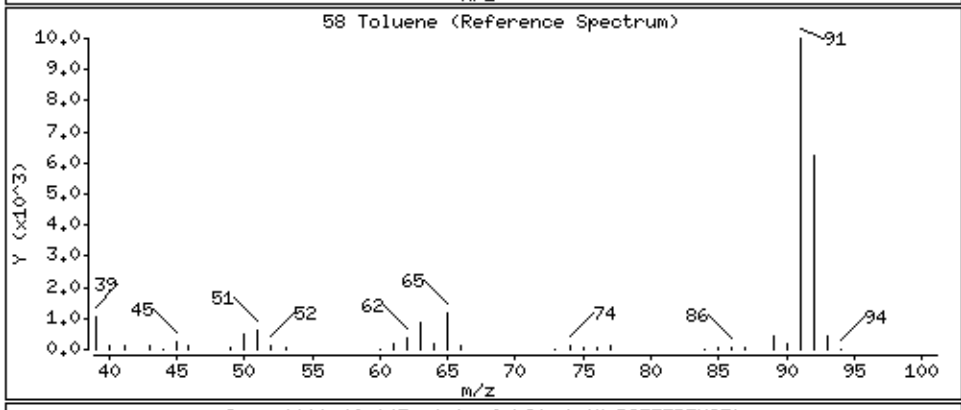
Concentration: 10.2 ppb

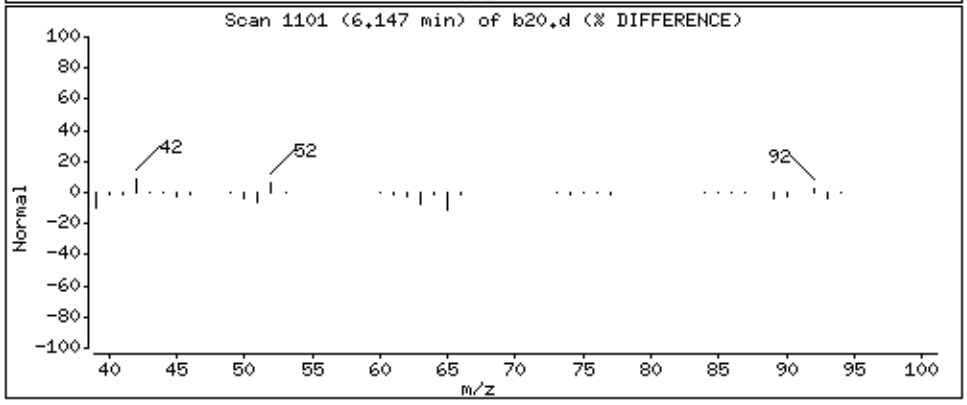












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b20.d
Injection Date: 17-MAR-2016 23:23
Instrument: 50mv1b.i
Lab Sample ID: 50140212004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0517-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 03:30 Lab Sample ID: 50140212005

Date Analyzed: 03/18/2016 03:30 Lab File ID: B031716.B\D06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	600	
156-60-5	trans-1,2-Dichloroethene	74.3	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0517-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 03:30 Lab Sample ID: 50140212005

Date Analyzed: 03/18/2016 03:30 Lab File ID: B031716.B\D06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d
Lab Smp Id: 50140212005 Client Smp ID: MW-0517-S1(030916)
Inj Date : 18-MAR-2016 03:30
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212005x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 79
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.060	1.062	(0.250)	1893	0.68597	3.43	
	7 Diethyl ether	74	1.494	1.496	(0.353)	675	0.93709	4.68	
	11 1,1-Dichloroethene	96	1.625	1.627	(0.384)	456	0.32743	1.64(Q)	
	18 Methylene Chloride	84	1.902	1.904	(0.449)	815	0.47443	2.37	
	22 1,2-Dichloroethene (trans)	96	2.080	2.077	(0.491)	23592	14.8544	74.3	
	29 1,2-Dichloroethene (cis)	96	2.869	2.872	(0.678)	198392	119.957	600	
$	38 Dibromofluoromethane (S)	113	3.398	3.400	(0.802)	80851	51.7490	51.7	
*	46 Fluorobenzene (IS)	96	4.234	4.232	(1.000)	300868	50.0000		
	47 Trichloroethene	95	4.679	4.682	(1.105)	1167894	726.303	3630	
$	57 Toluene-d8	98	6.075	6.073	(0.822)	282122	49.8537	49.8	
	58 Toluene	91	6.154	6.146	(0.832)	3138	0.45210	2.26	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.391	(1.000)	217944	50.0000		
$	76 4-Bromofluorobenzene	95	8.209	8.207	(1.110)	104957	53.0500	53.0	
	84 1,3,5-Trimethylbenzene	105	8.466	8.463	(0.953)	531	0.08121	0.406	
	87 1,2,4-Trimethylbenzene	105	8.675	8.677	(0.976)	972	0.14286	0.714	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.881	(1.000)	117812	50.0000		
	100 2,methyl-naphthalene	142	10.720	10.702	(1.207)	1552	0.38448	1.92	

QC Flag Legend

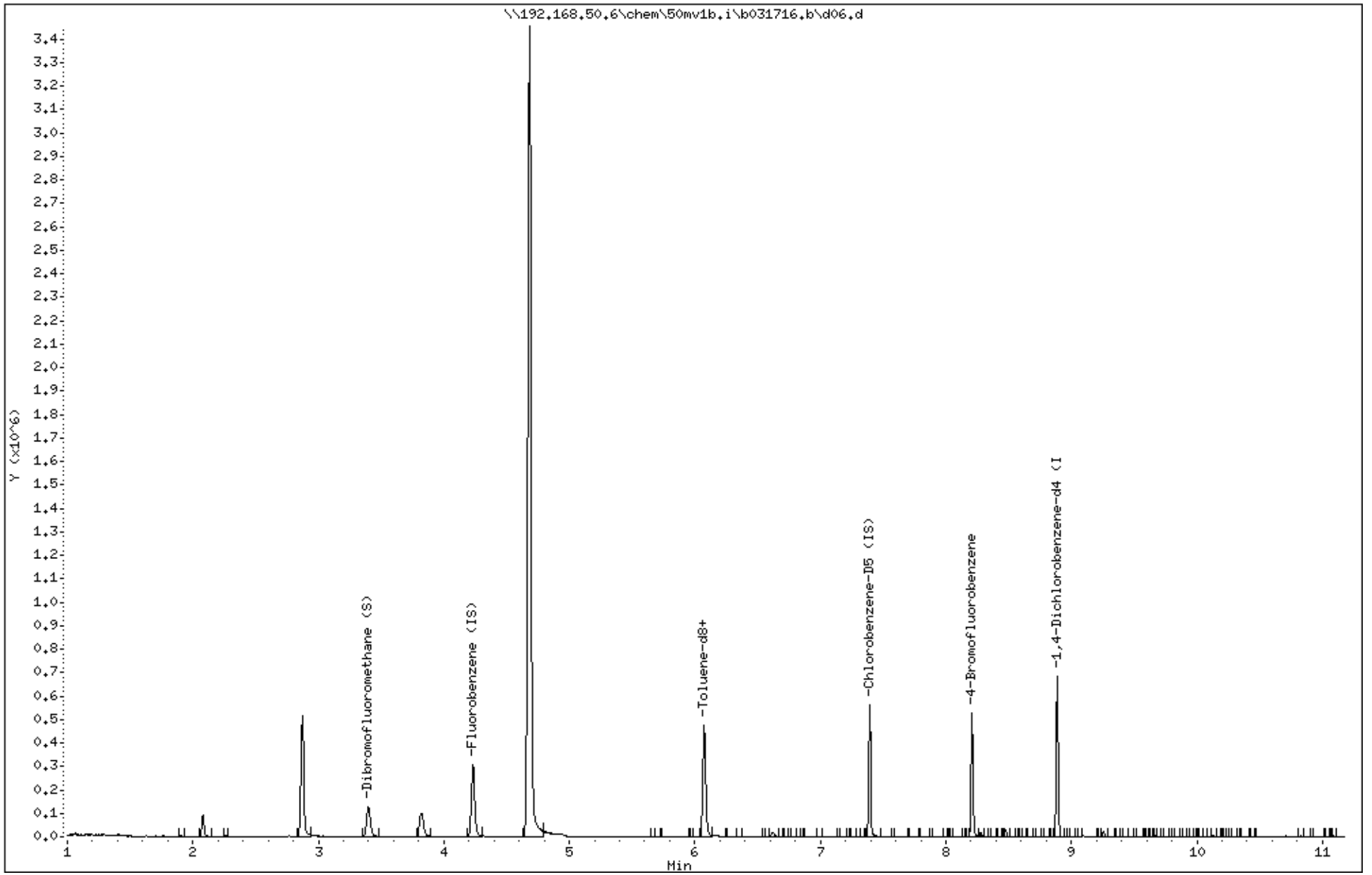
Q - Qualifier signal failed the ratio test.

QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d
Date : 18-MAR-2016 03:30
Client ID: MW-0517-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212005x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

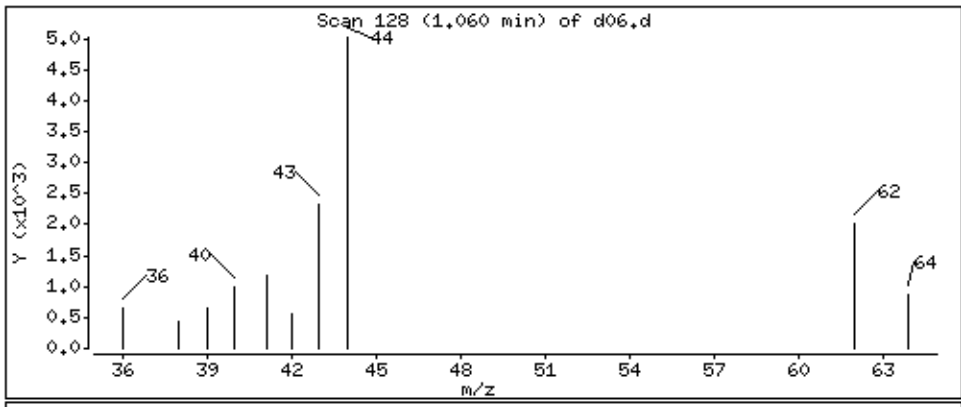
Operator: grm

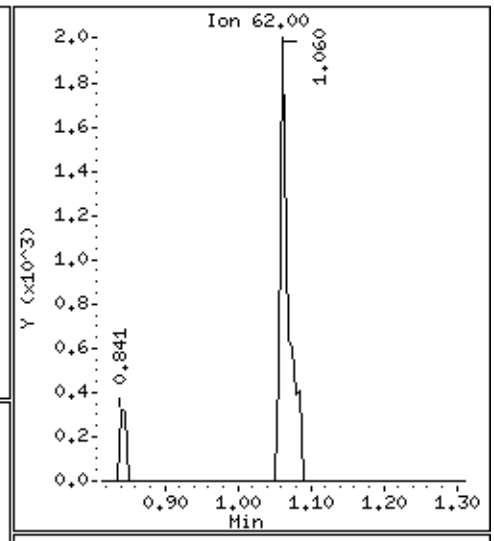
Column phase: DB-624

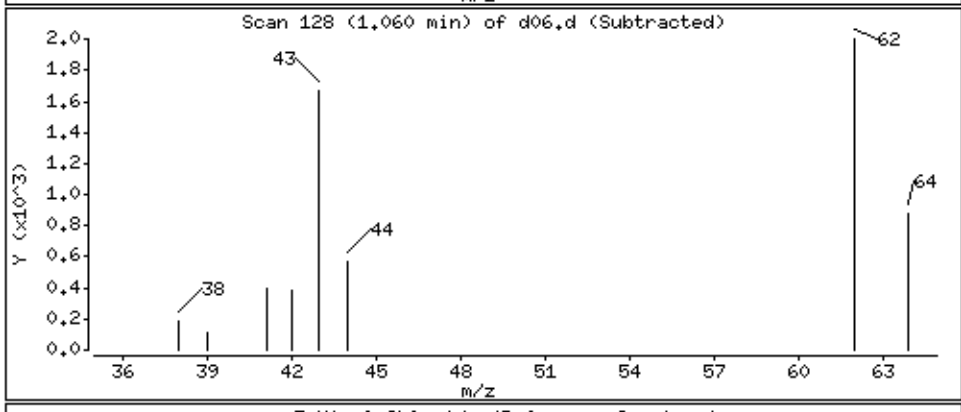
Column diameter: 0.18

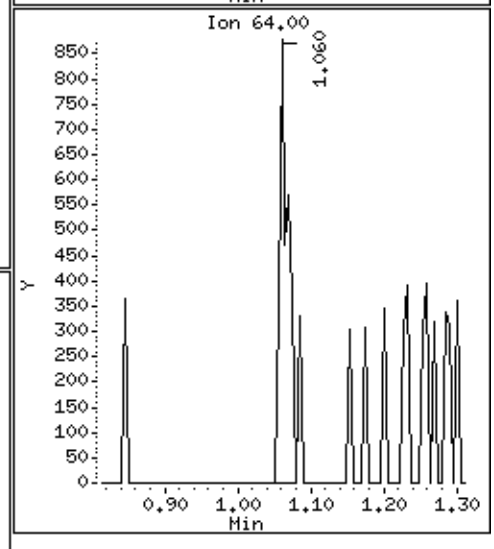
3 Vinyl Chloride

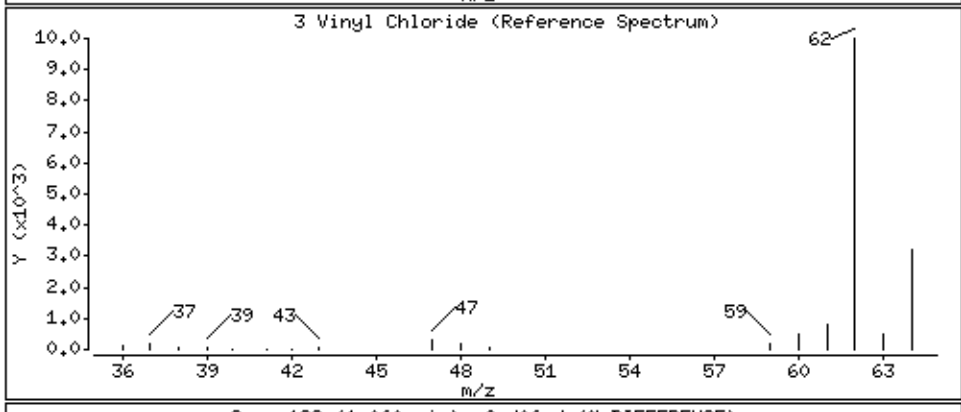
Concentration: 3.43 ppb

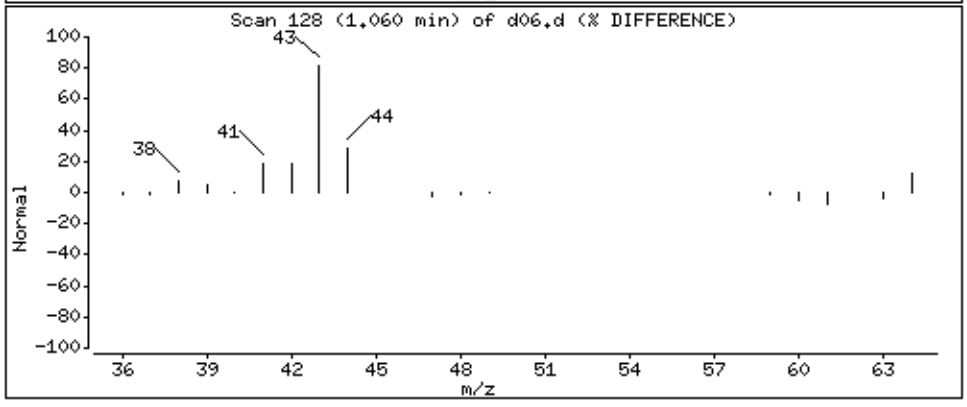












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

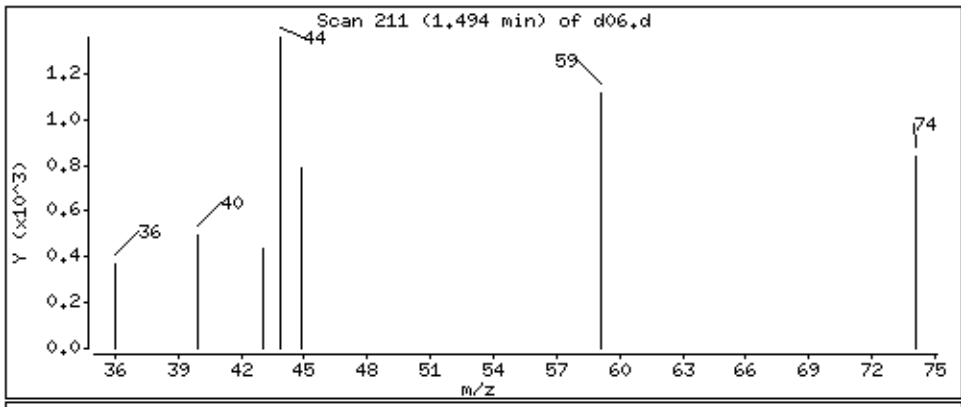
Operator: grm

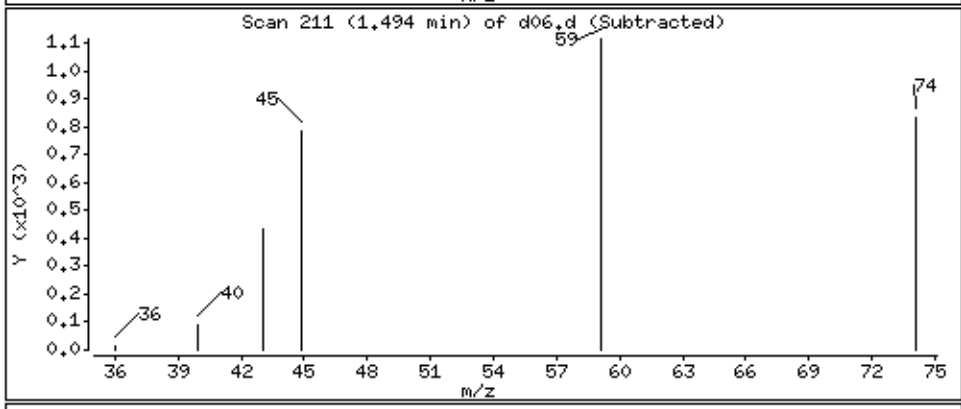
Column phase: DB-624

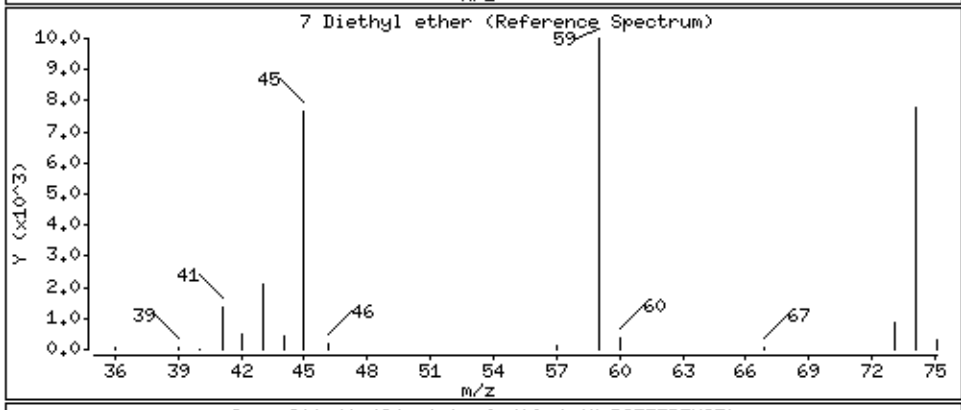
Column diameter: 0.18

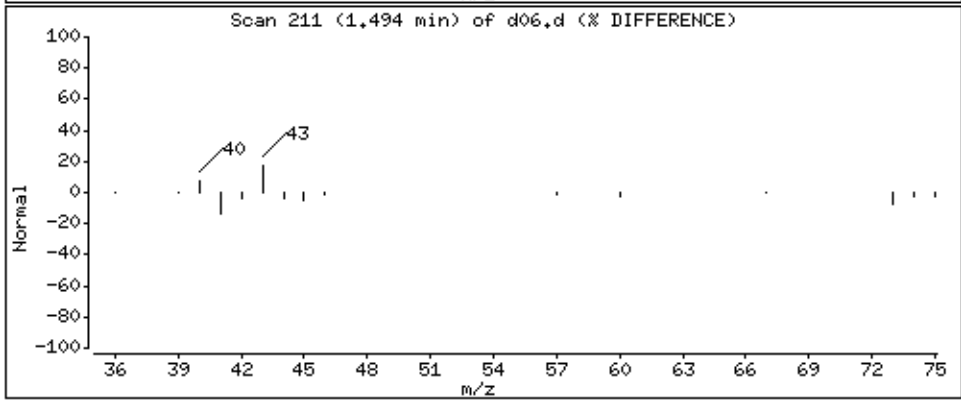
7 Diethyl ether

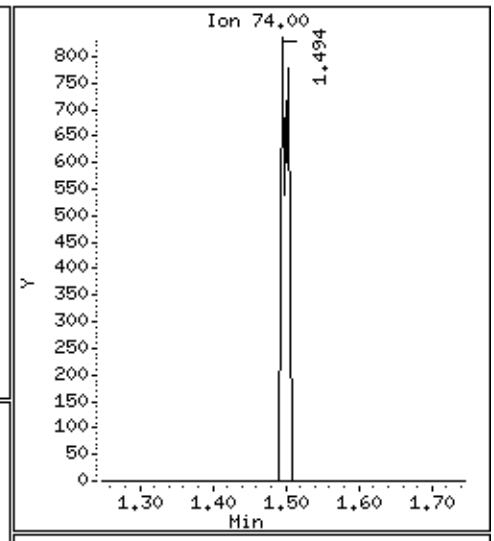
Concentration: 4.68 ppb

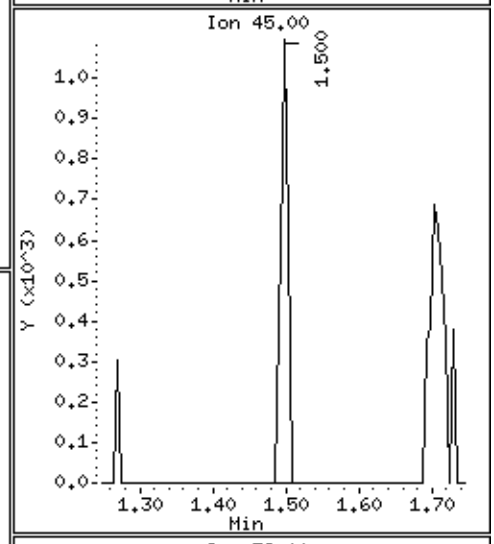


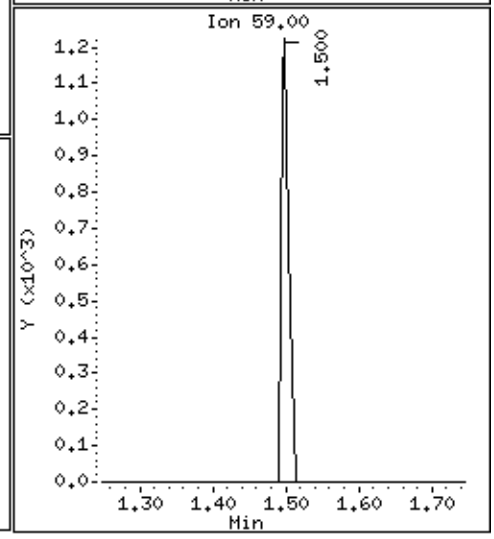












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

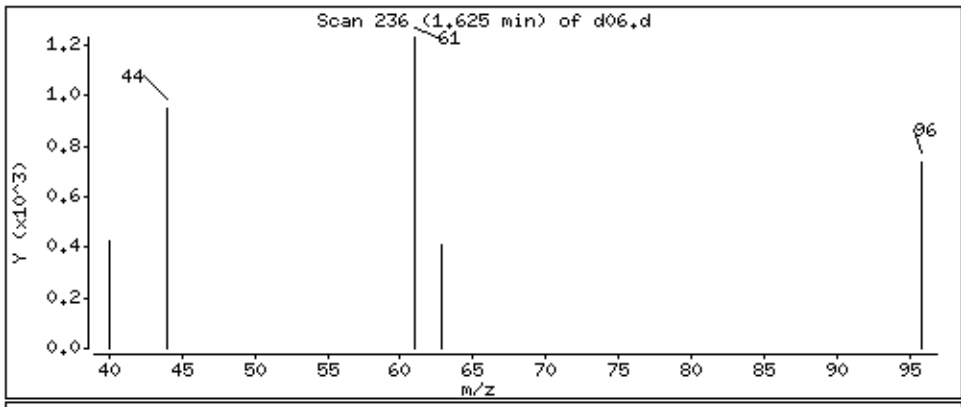
Operator: grm

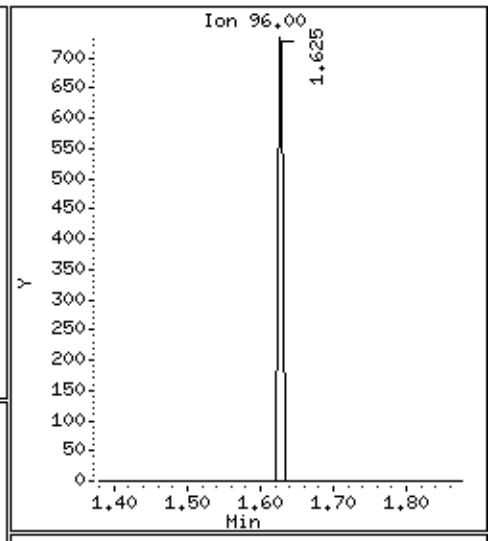
Column phase: DB-624

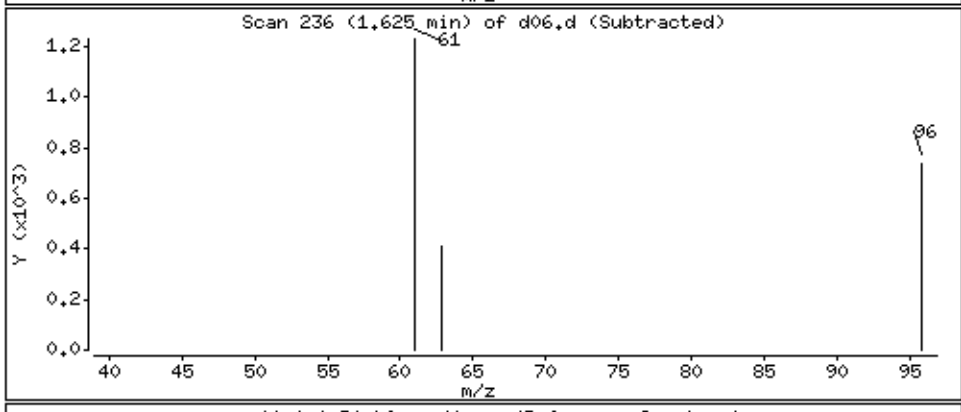
Column diameter: 0.18

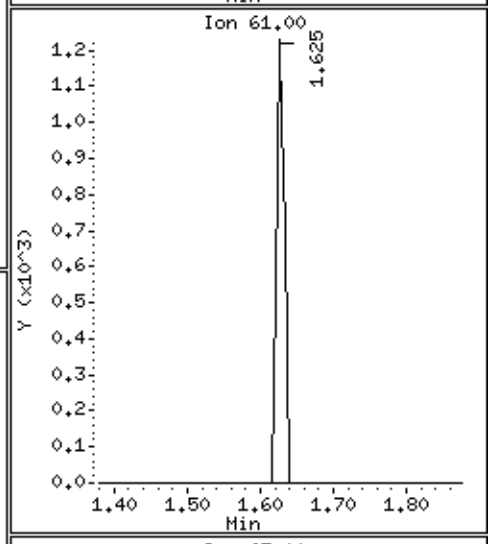
11 1,1-Dichloroethene

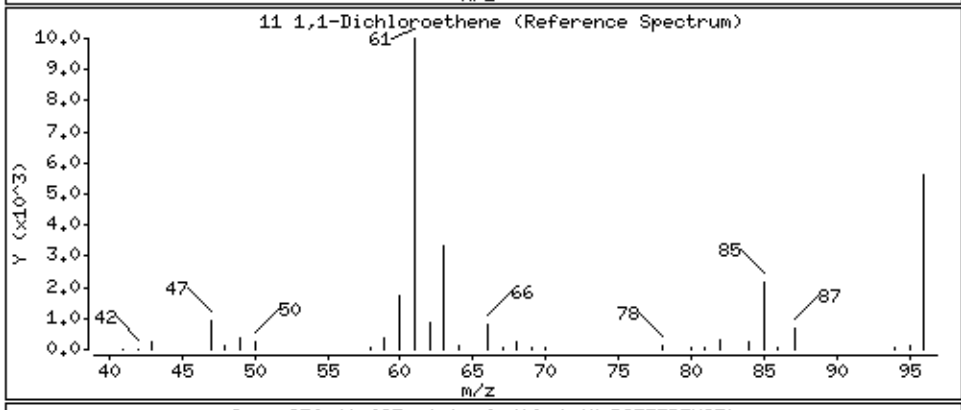
Concentration: 1.64 ppb

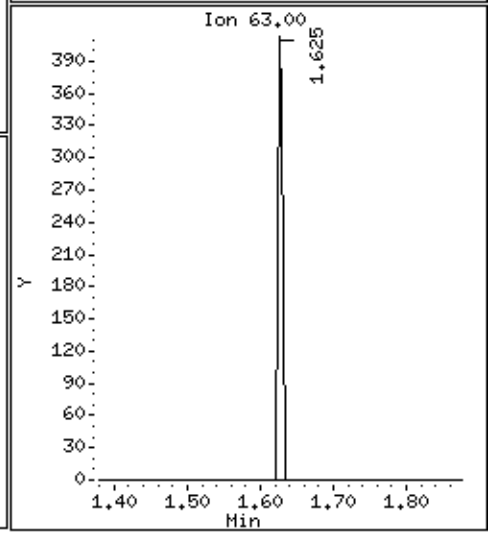


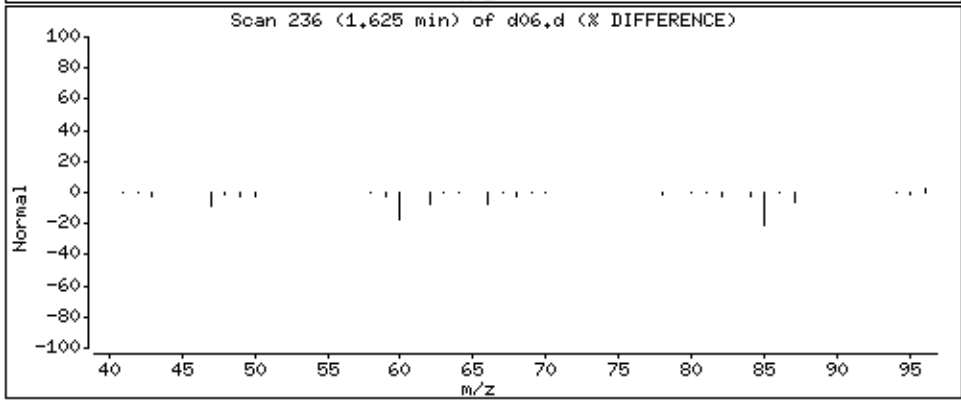












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

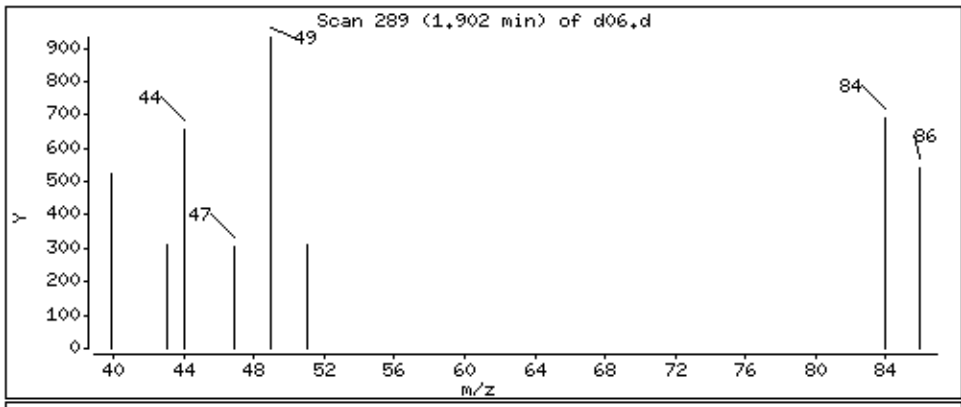
Operator: grm

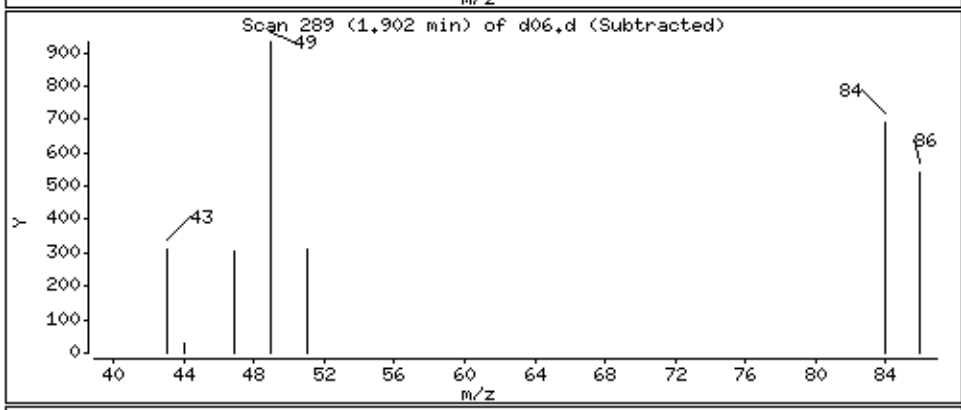
Column phase: DB-624

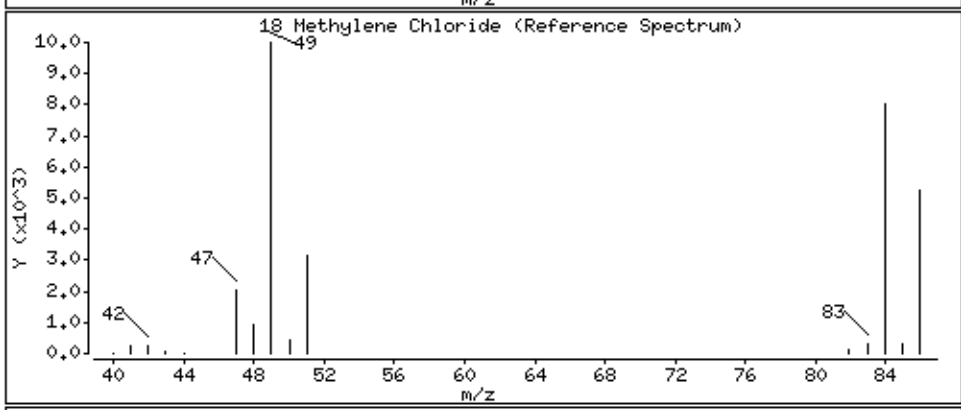
Column diameter: 0.18

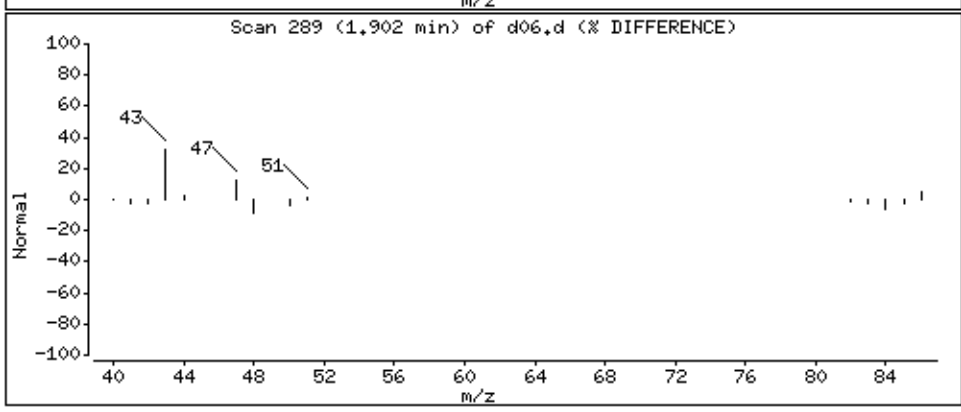
18 Methylene Chloride

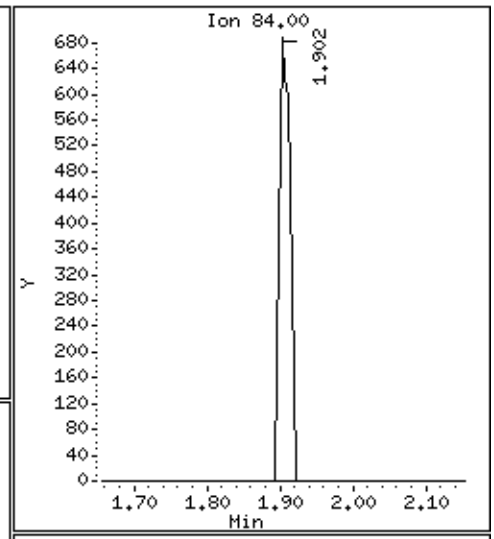
Concentration: 2.37 ppb

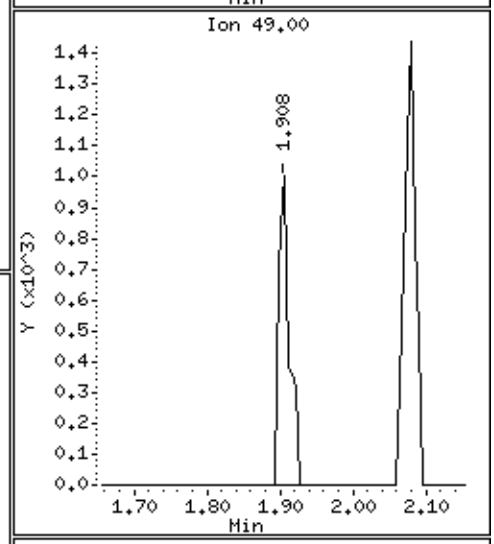


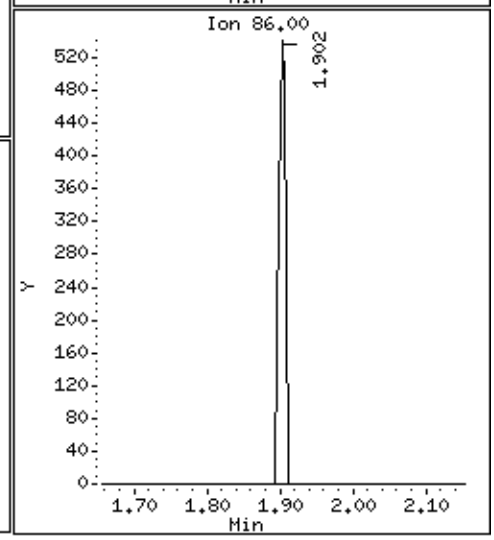












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

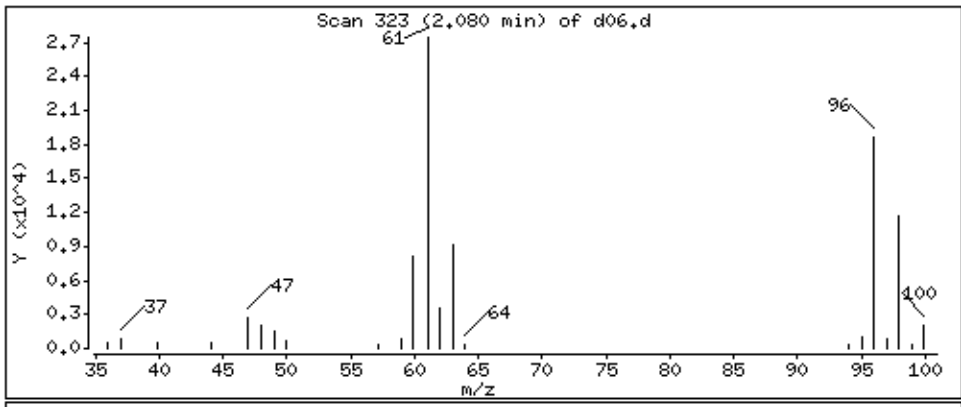
Operator: grm

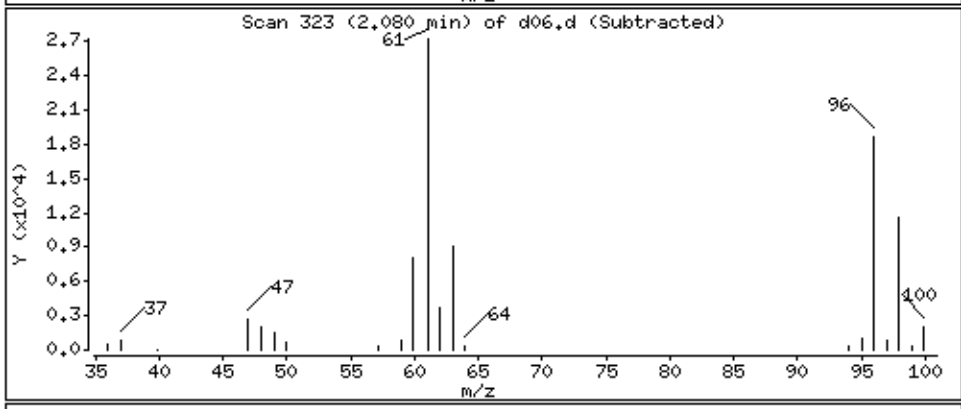
Column phase: DB-624

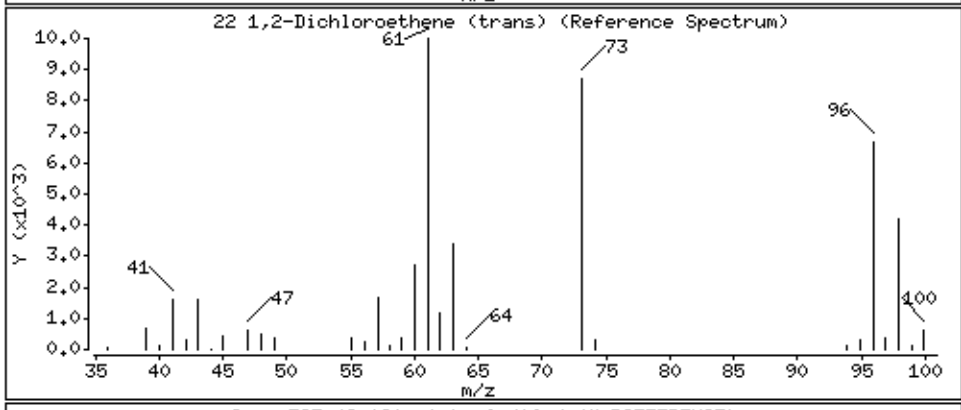
Column diameter: 0.18

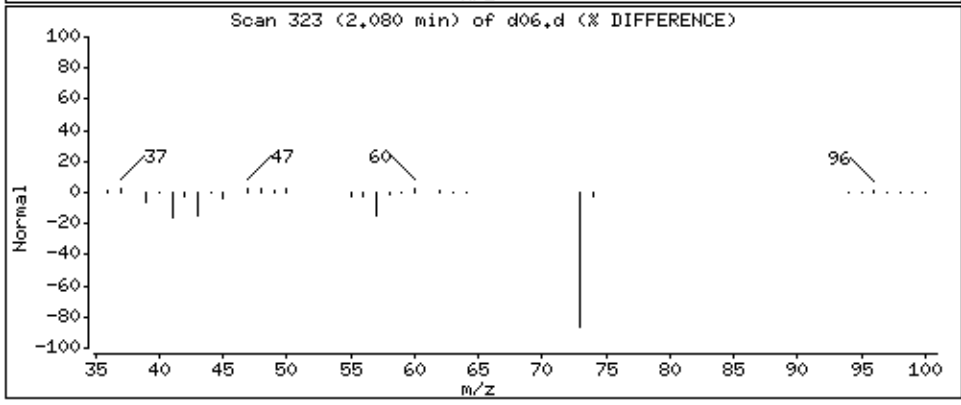
22 1,2-Dichloroethene (trans)

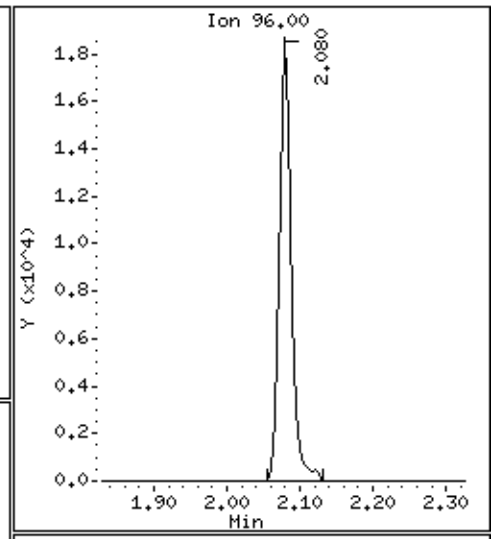
Concentration: 74.3 ppb

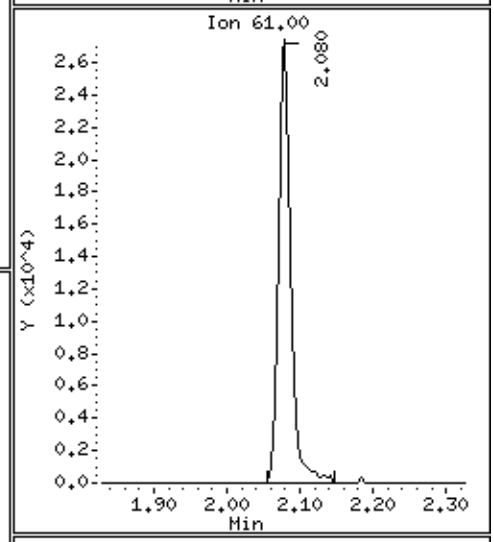


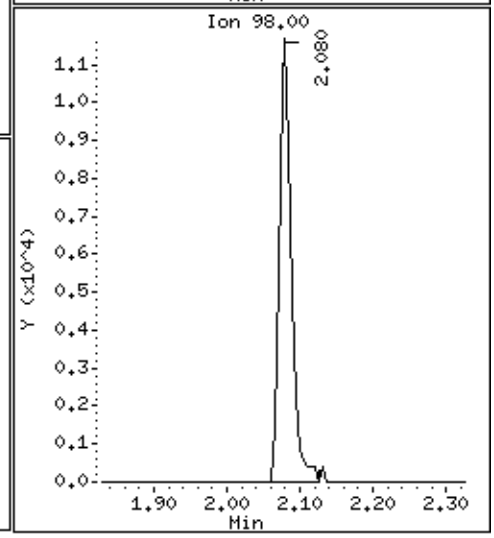












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

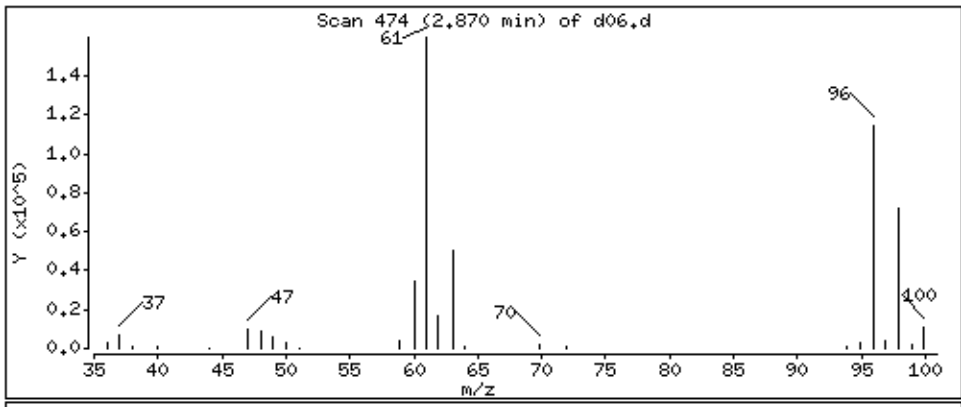
Operator: grm

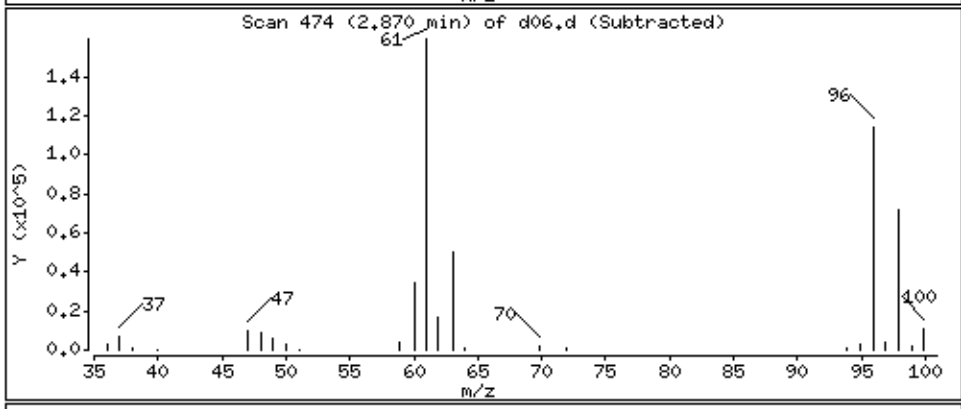
Column phase: DB-624

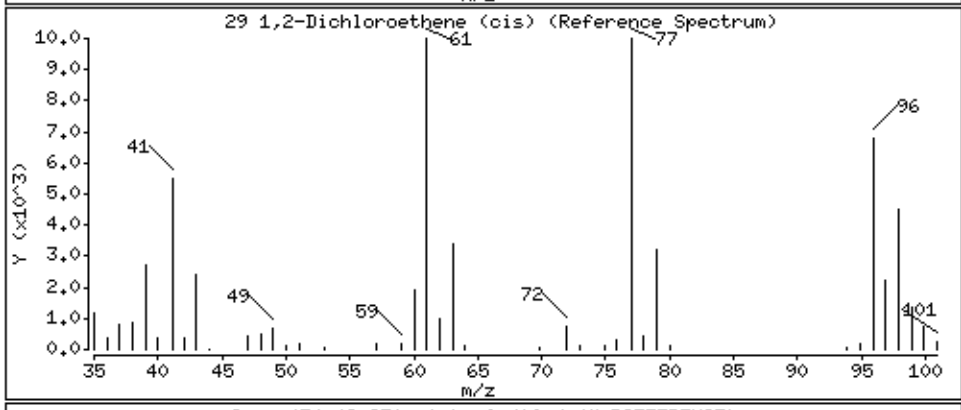
Column diameter: 0.18

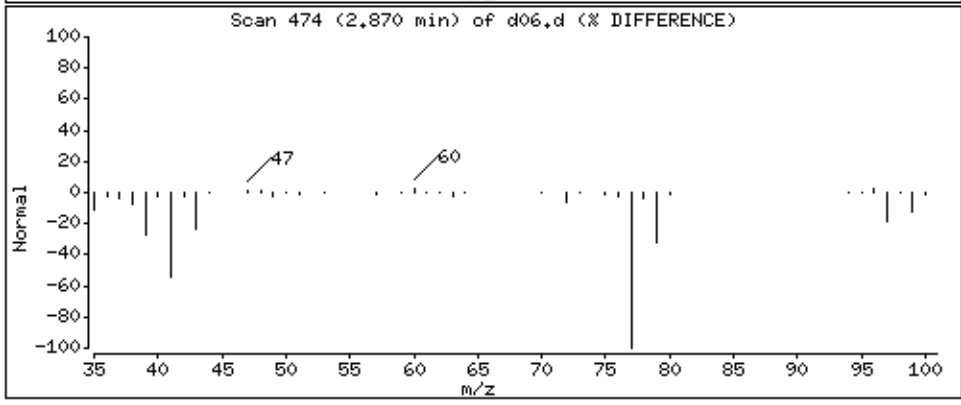
29 1,2-Dichloroethene (cis)

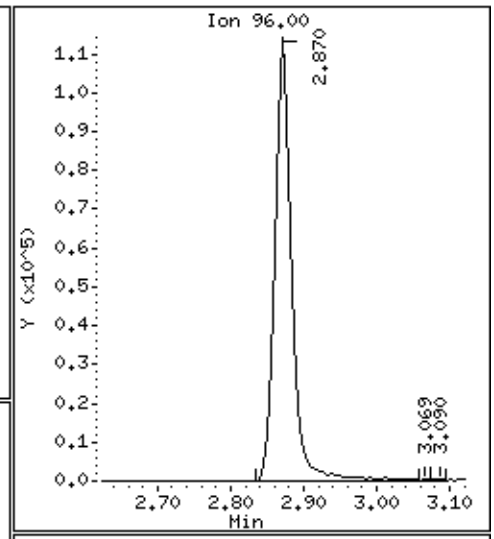
Concentration: 600 ppb

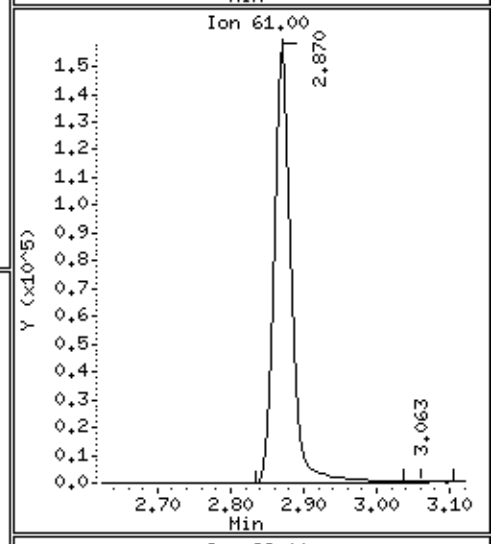


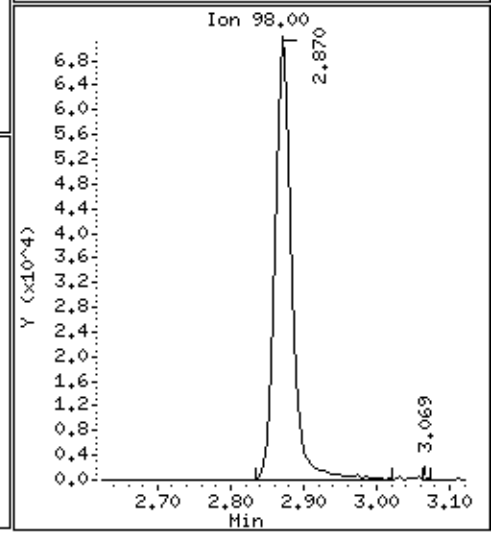












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

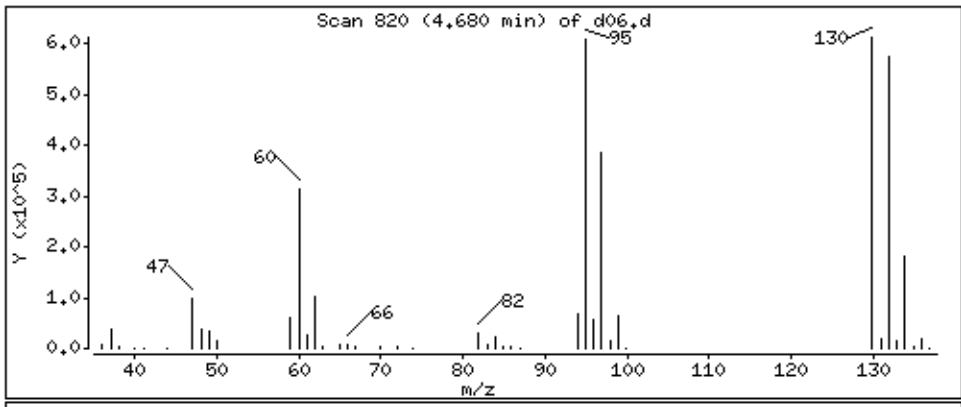
Operator: grm

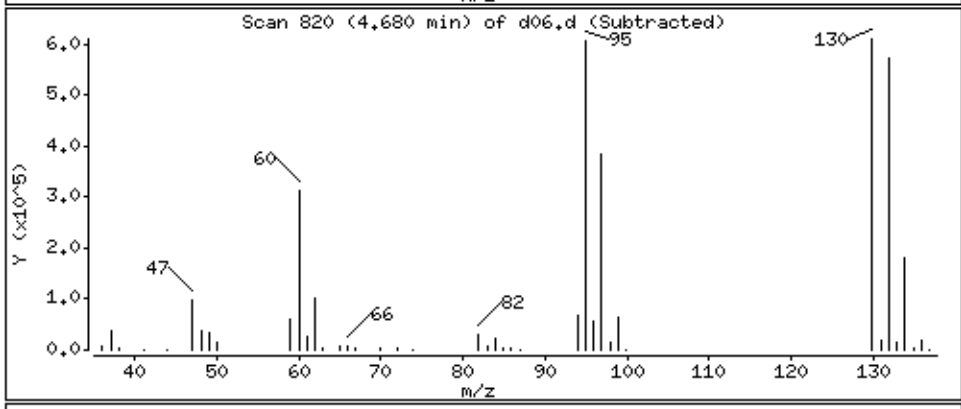
Column phase: DB-624

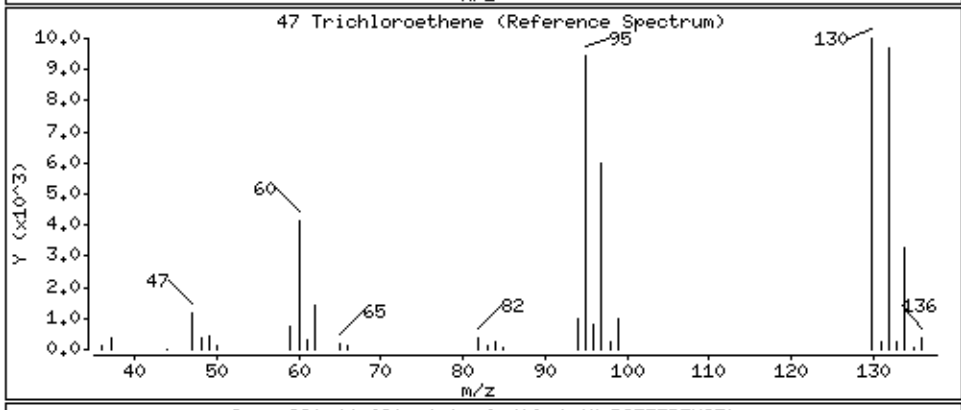
Column diameter: 0.18

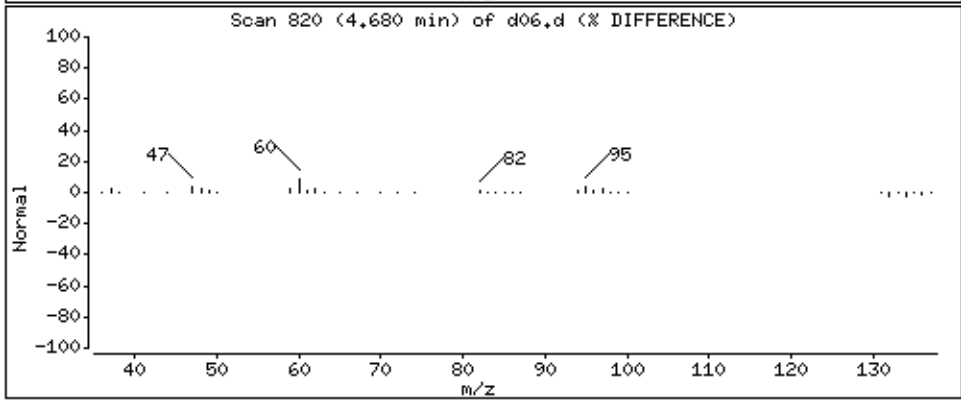
47 Trichloroethene

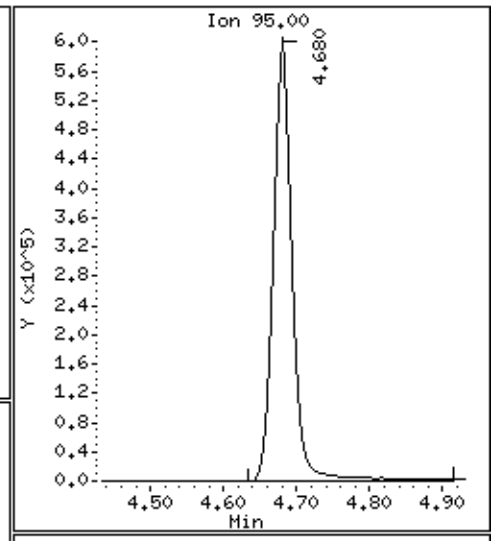
Concentration: 3630 ppb

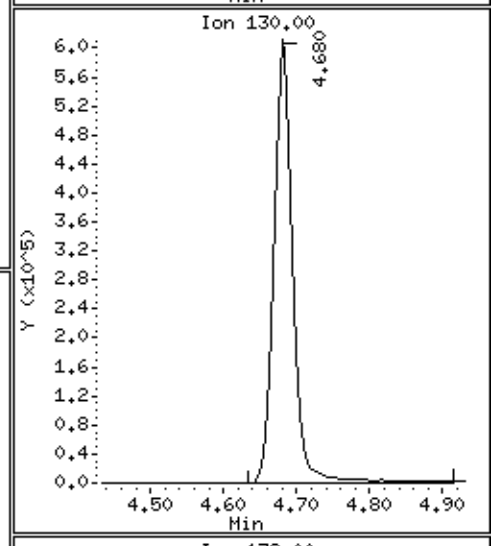


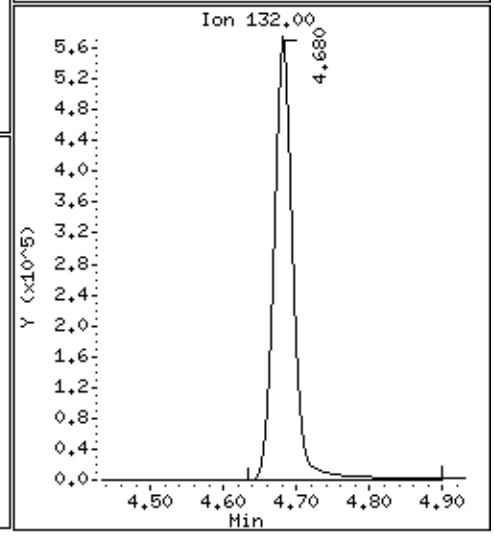












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

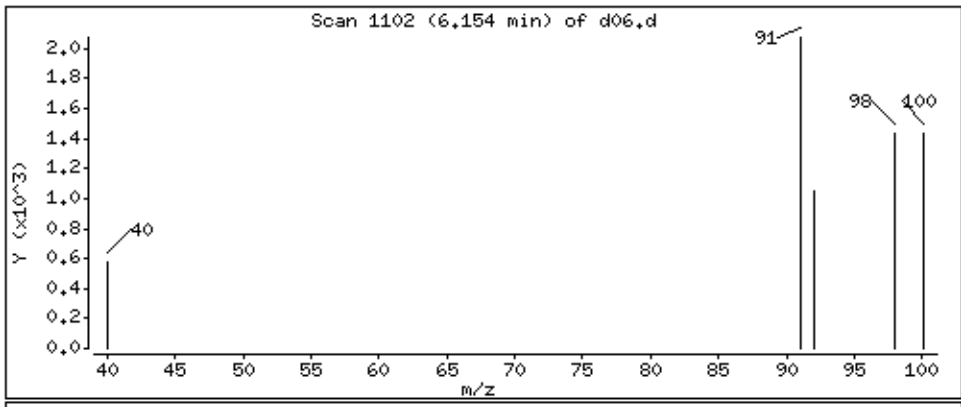
Operator: grm

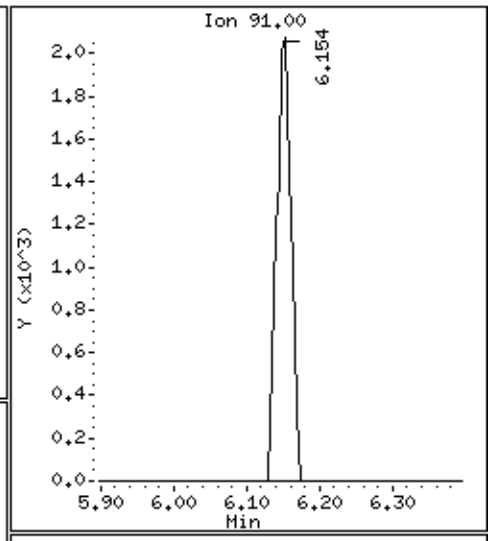
Column phase: DB-624

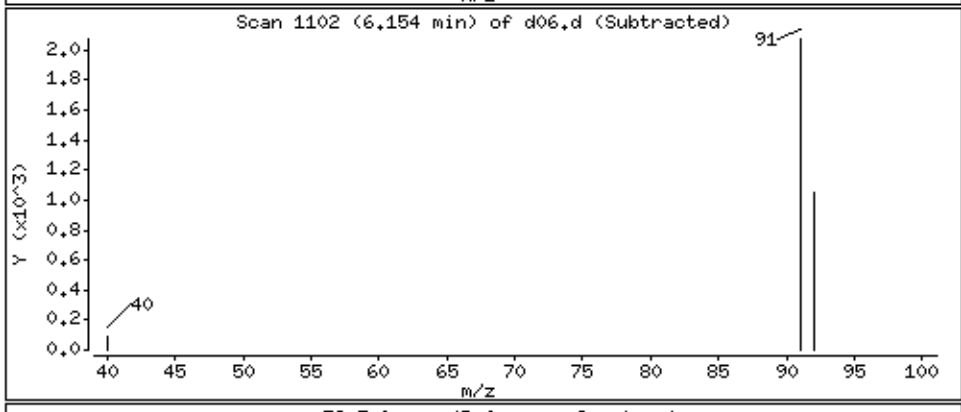
Column diameter: 0.18

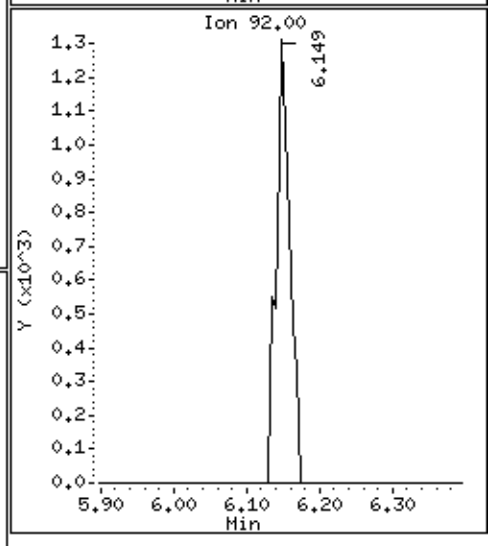
58 Toluene

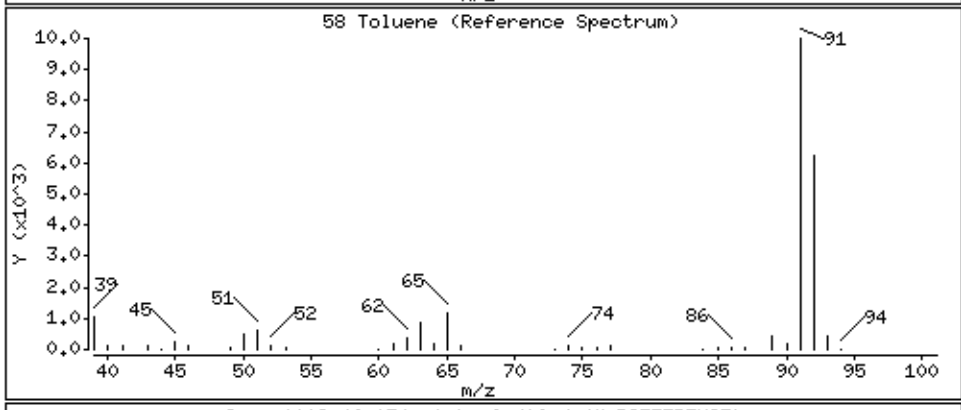
Concentration: 2.26 ppb

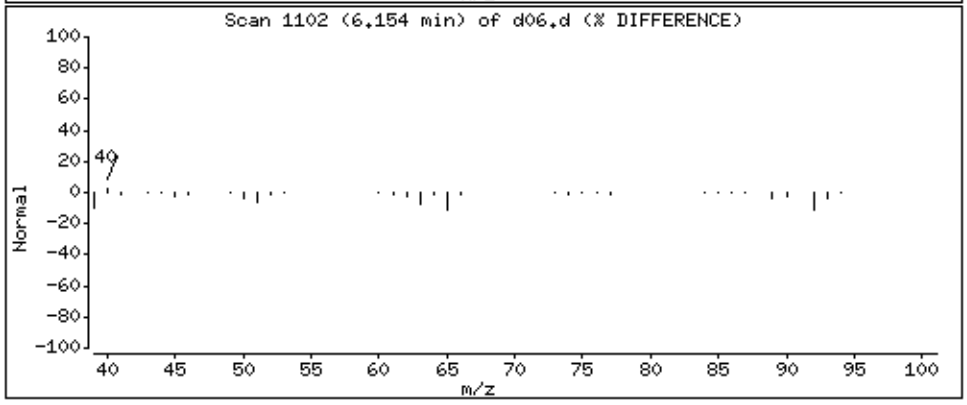












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

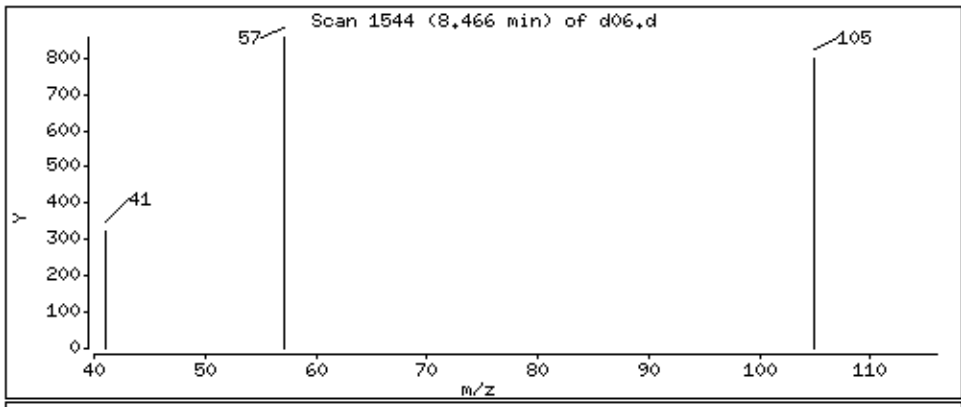
Operator: grm

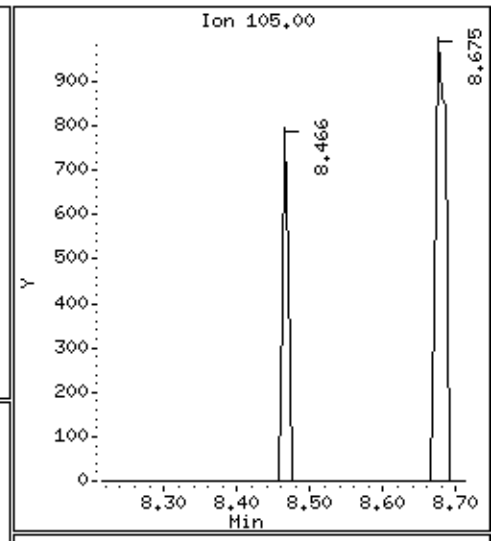
Column phase: DB-624

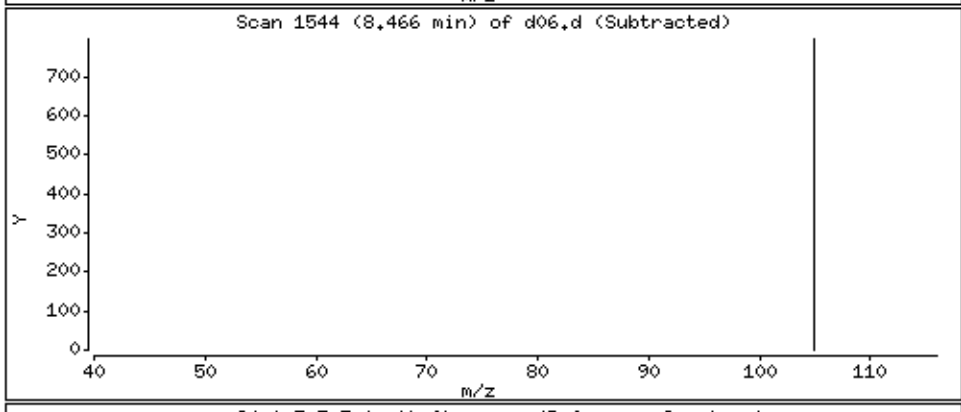
Column diameter: 0.18

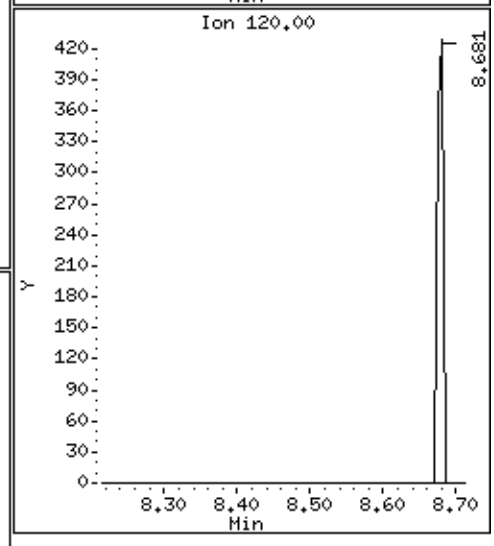
84 1,3,5-Trimethylbenzene

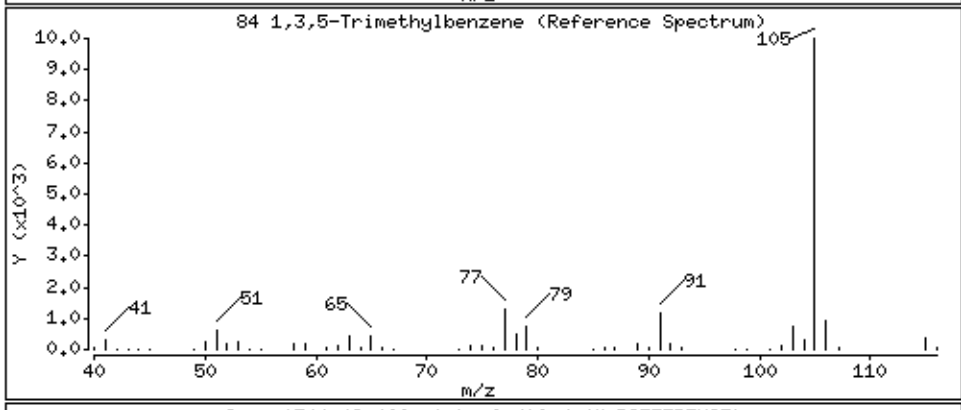
Concentration: 0.406 ppb

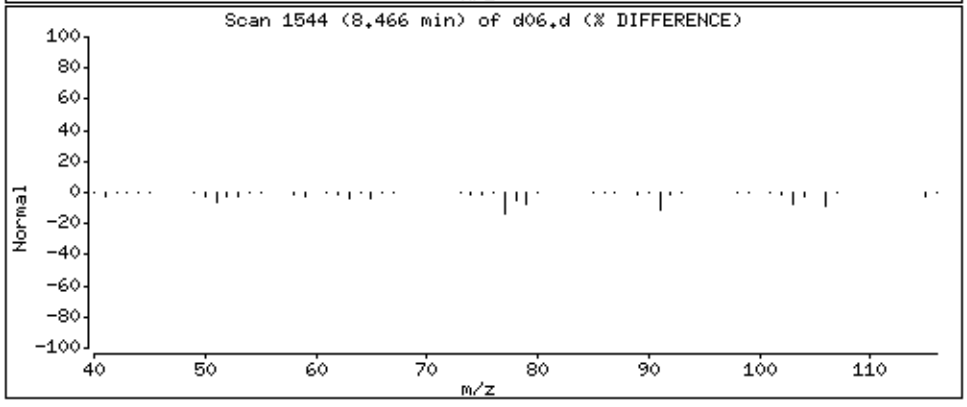












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

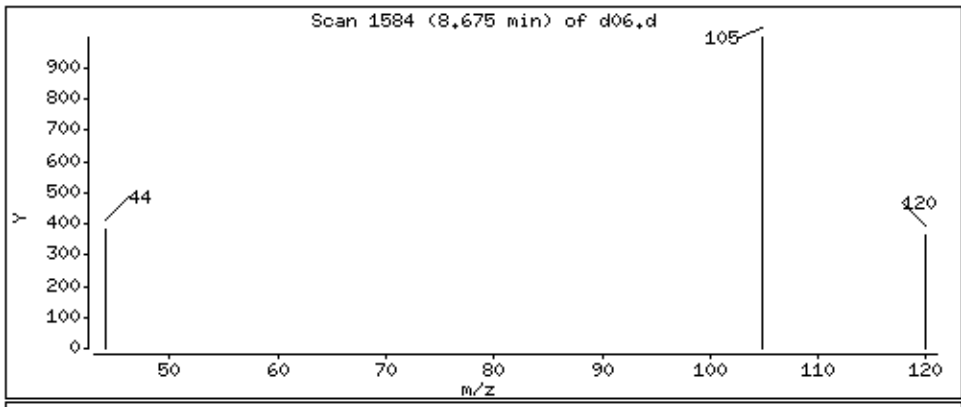
Operator: grm

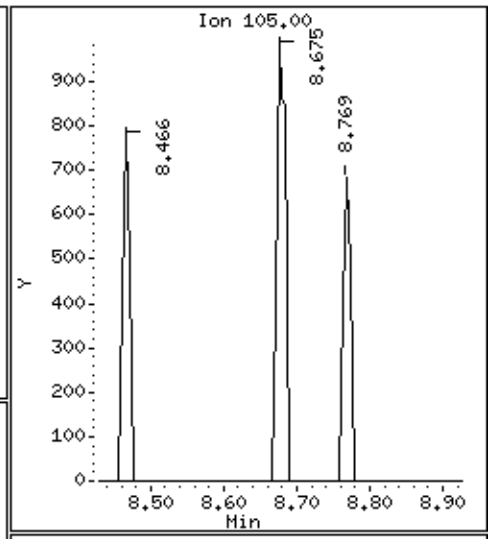
Column phase: DB-624

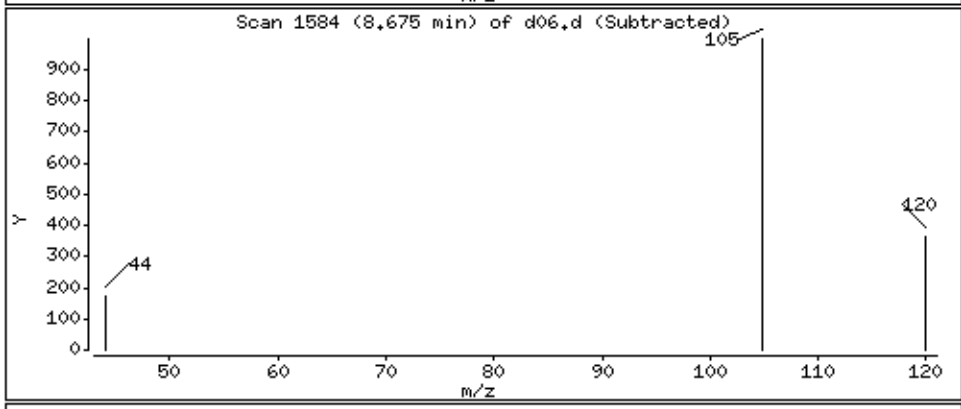
Column diameter: 0.18

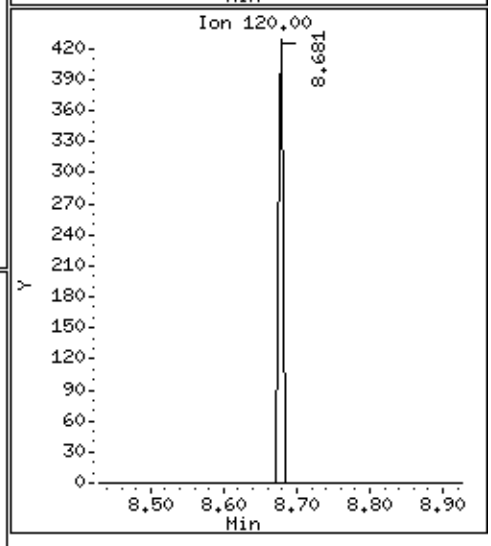
87 1,2,4-Trimethylbenzene

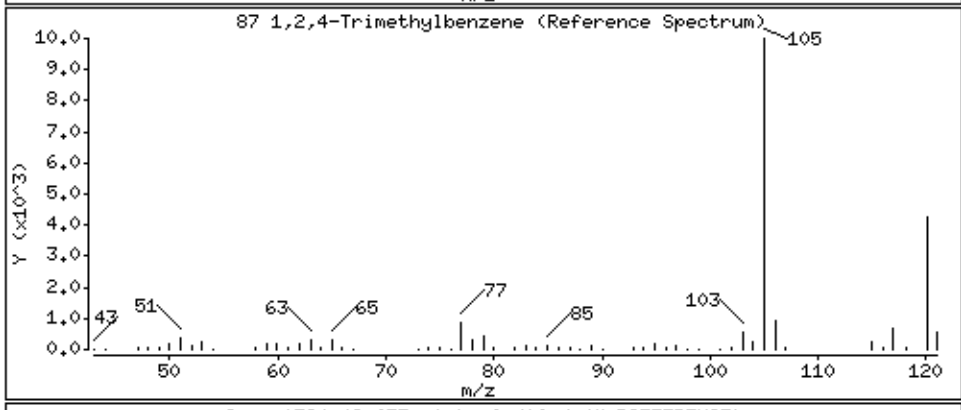
Concentration: 0.714 ppb

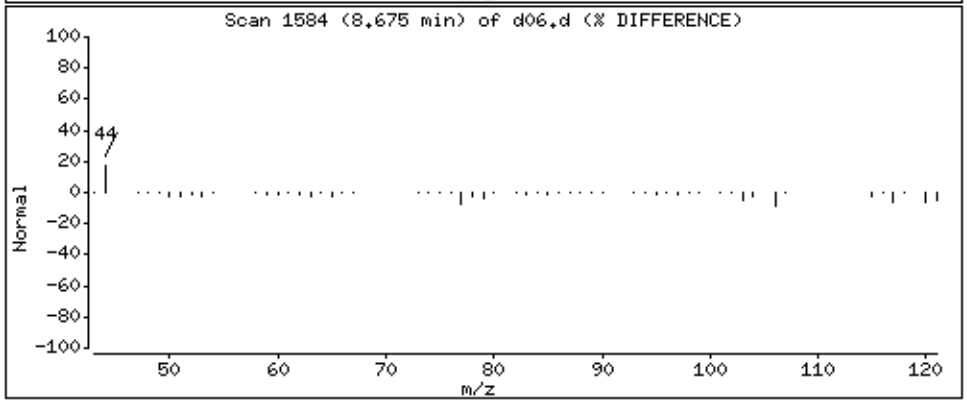












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d06.d

Date : 18-MAR-2016 03:30

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x5

Purge Volume: 5.0

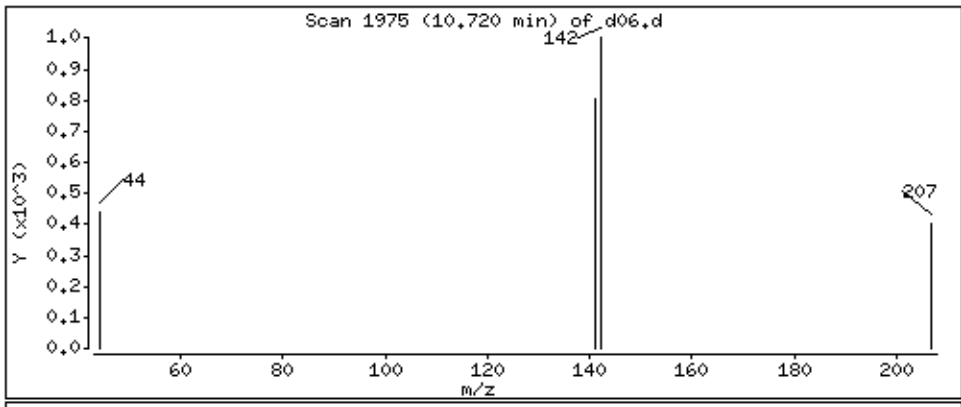
Operator: grm

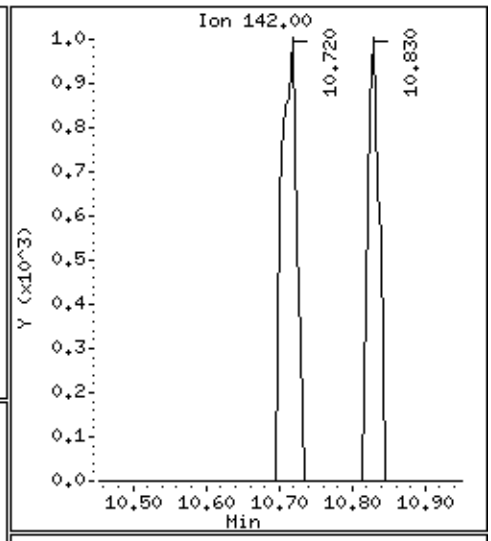
Column phase: DB-624

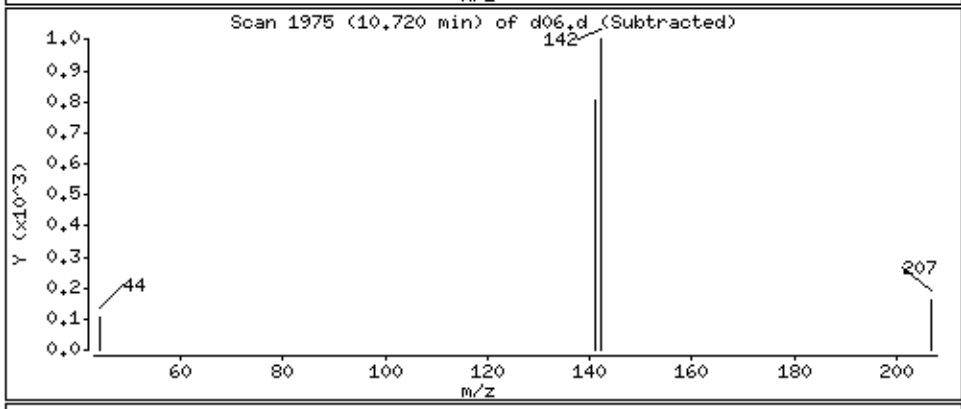
Column diameter: 0.18

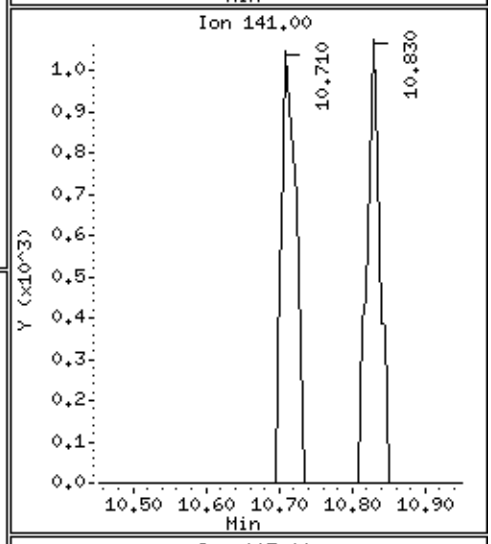
100 2,methyl-naphthalene

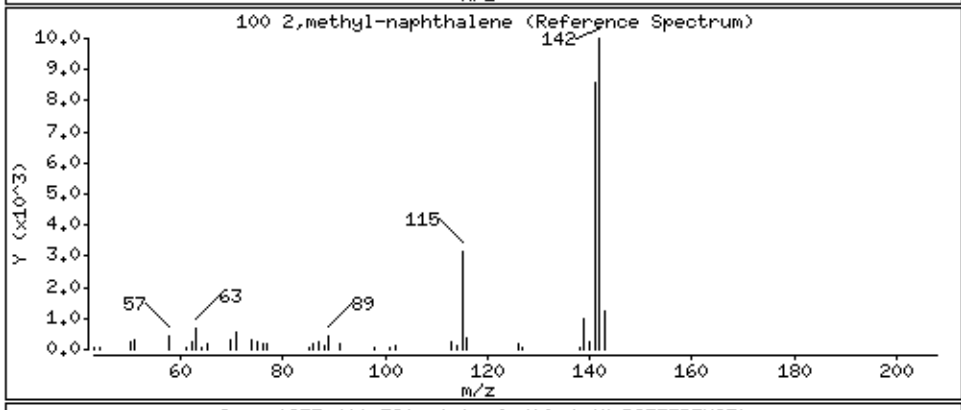
Concentration: 1.92 ppb

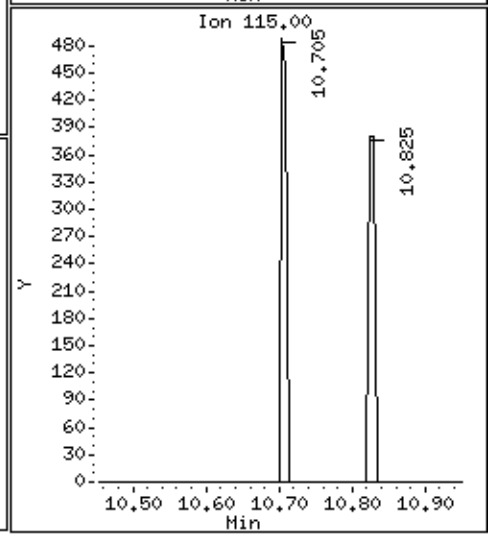


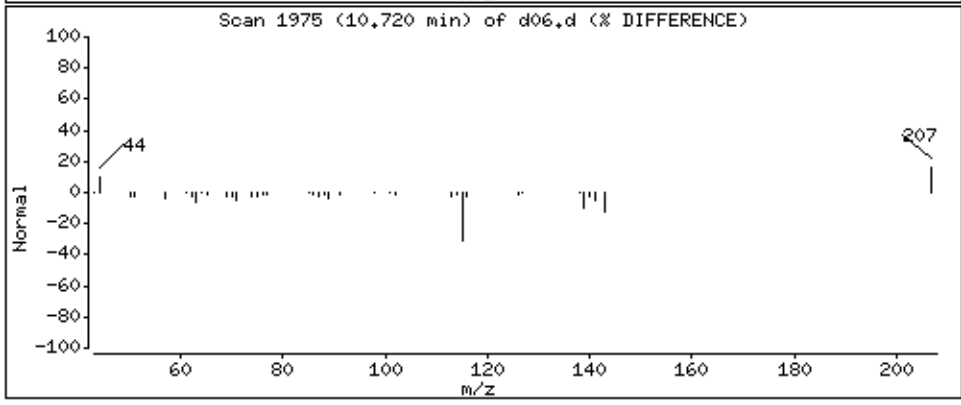












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d06.d
Injection Date: 18-MAR-2016 03:30
Instrument: 50mv1b.i
Lab Sample ID: 50140212005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0517-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 04:05 Lab Sample ID: 50140212005

Date Analyzed: 03/18/2016 04:05 Lab File ID: B031716.B\D07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 20 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	3570	

Pace Analytical Services, Inc.

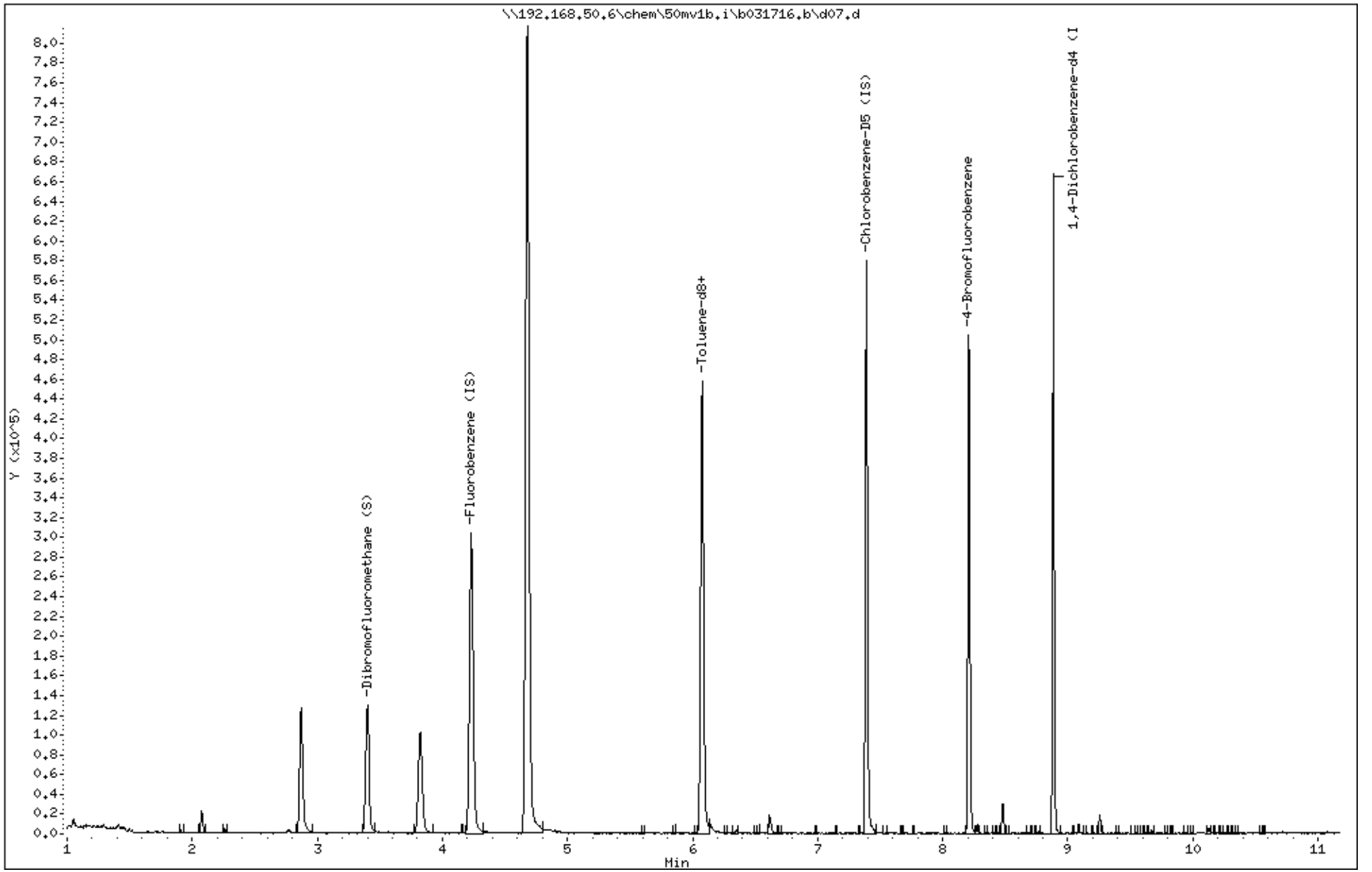
Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d
Lab Smp Id: 50140212005 Client Smp ID: MW-0517-S1(030916)
Inj Date : 18-MAR-2016 04:05
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212005x20
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 80
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.496	1.496	(0.354)	638	0.91455	18.3	
	18 Methylene Chloride	84	1.909	1.904	(0.451)	652	0.39189	7.84	
	22 1,2-Dichloroethene (trans)	96	2.076	2.077	(0.491)	5648	3.67190	73.4	
	29 1,2-Dichloroethene (cis)	96	2.871	2.872	(0.679)	48093	30.0256	600	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	80810	53.4059	53.4	
*	46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	291386	50.0000		
	47 Trichloroethene	95	4.681	4.682	(1.106)	278163	178.616	3570	
$	57 Toluene-d8	98	6.077	6.073	(0.822)	277115	48.6104	48.6	
	58 Toluene	91	6.145	6.146	(0.832)	3240	0.46338	9.27	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	219551	50.0000		
$	76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	105240	52.8037	52.8	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	116427	50.0000		

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d
Date : 18-MAR-2016 04:05
Client ID: MW-0517-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212005x20
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

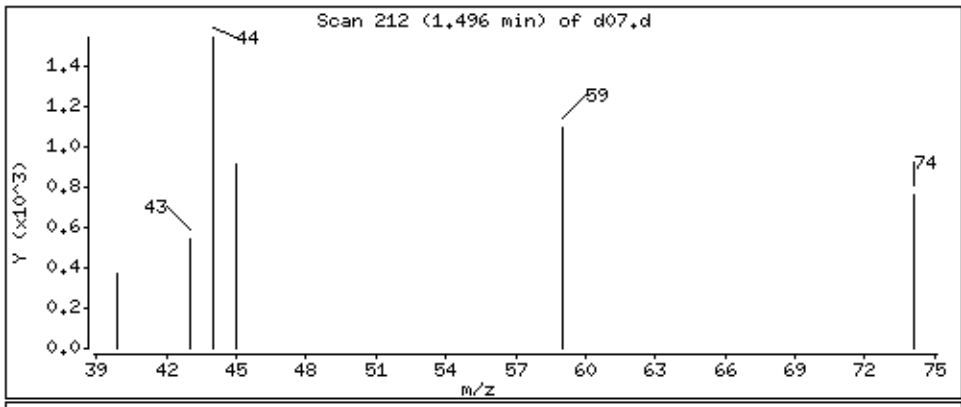
Operator: grm

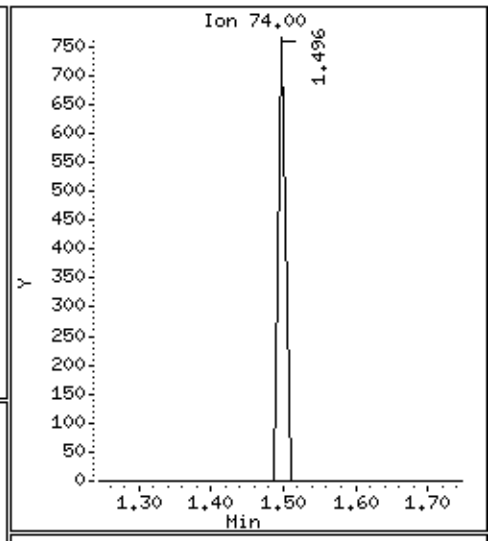
Column phase: DB-624

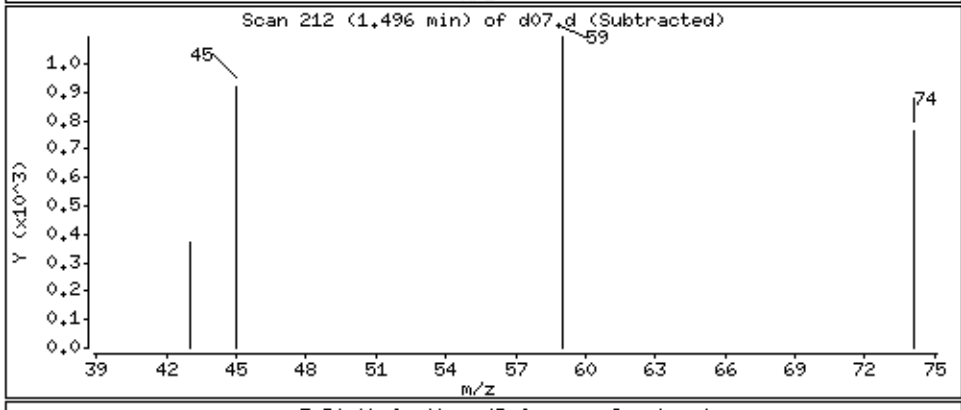
Column diameter: 0.18

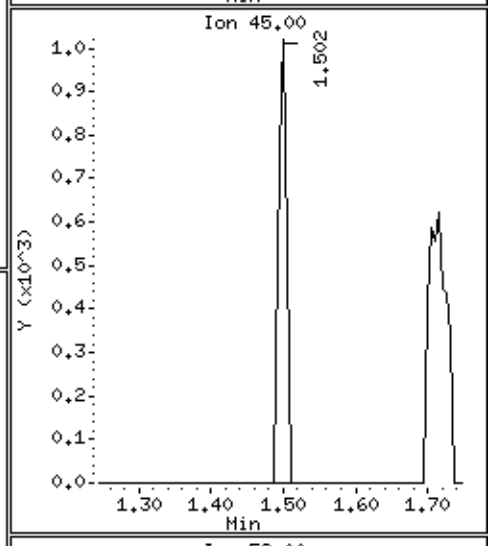
7 Diethyl ether

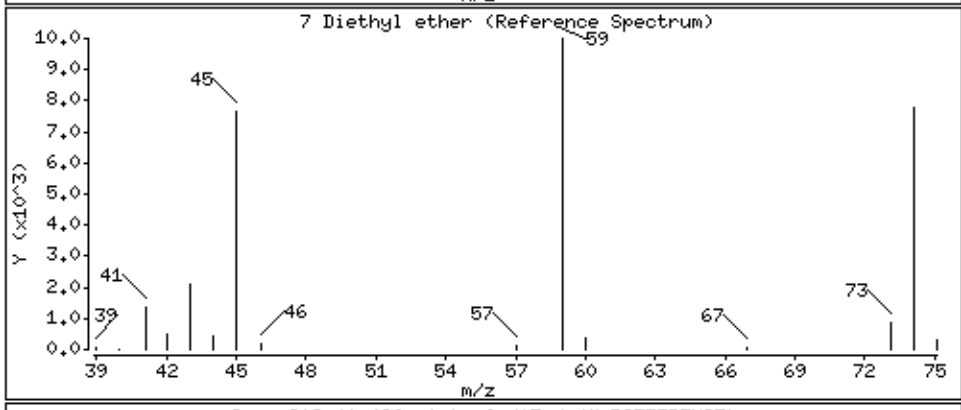
Concentration: 18.3 ppb

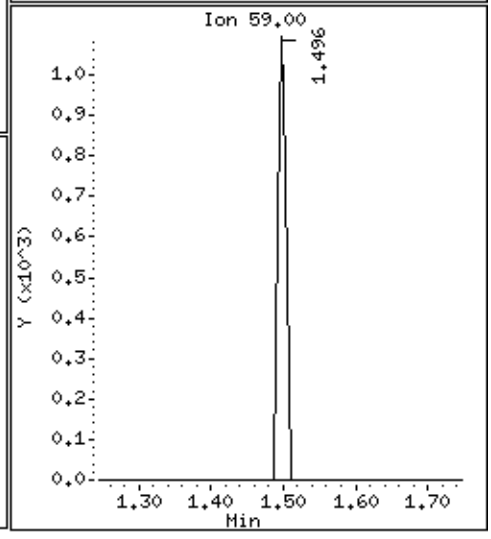


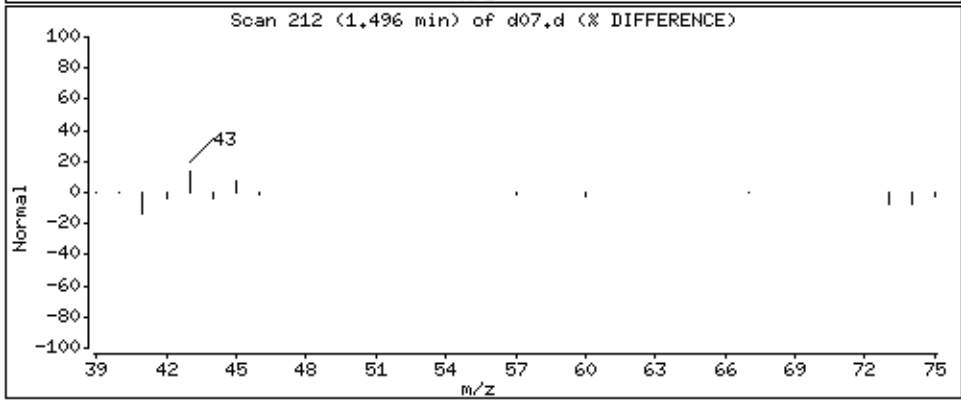












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

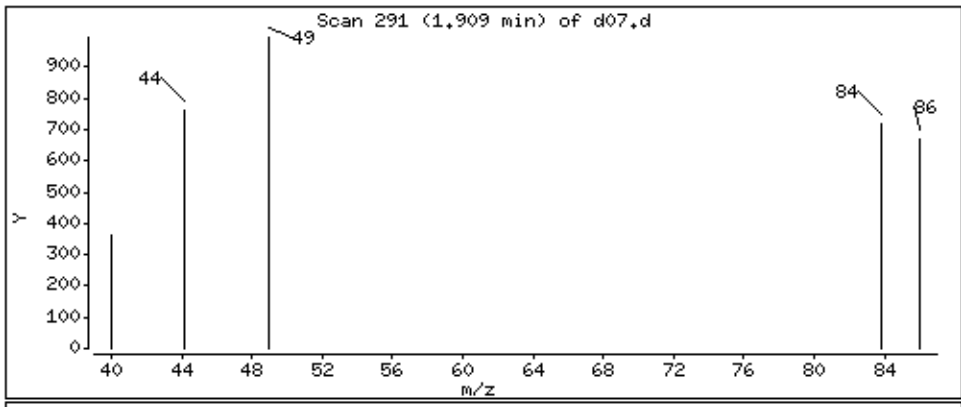
Operator: grm

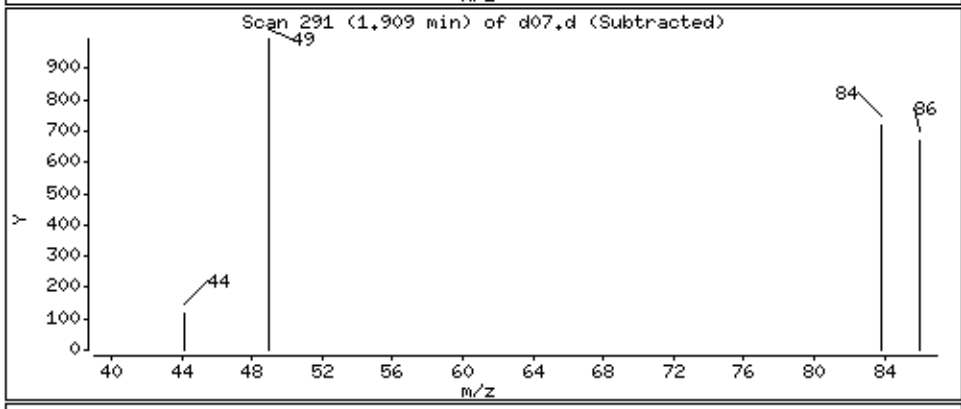
Column phase: DB-624

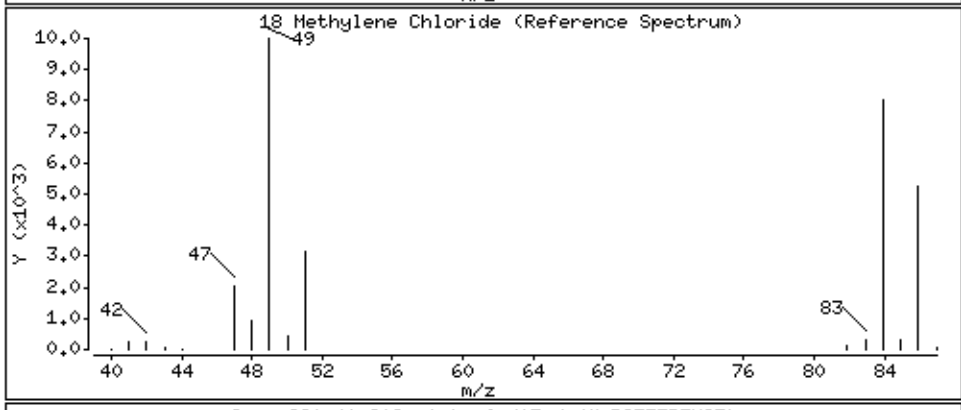
Column diameter: 0.18

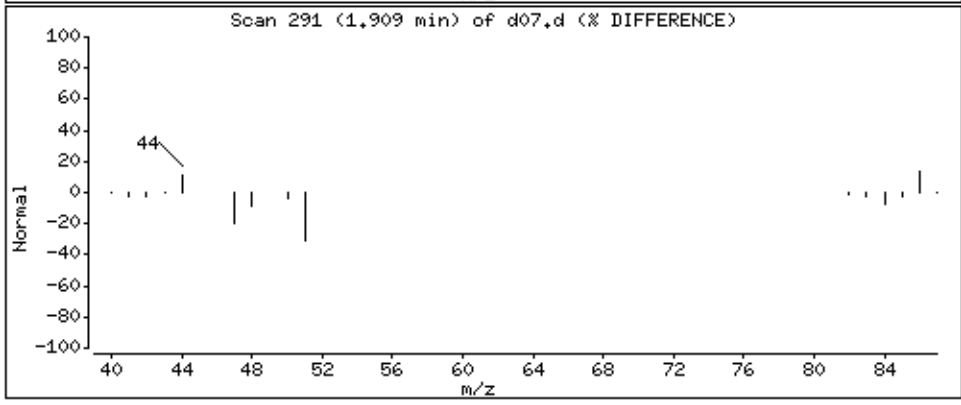
18 Methylene Chloride

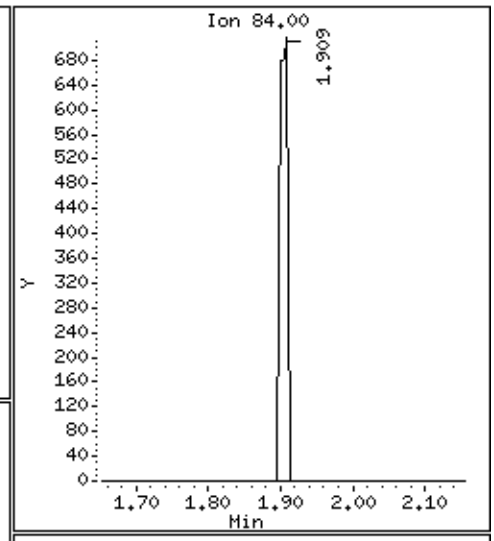
Concentration: 7.84 ppb

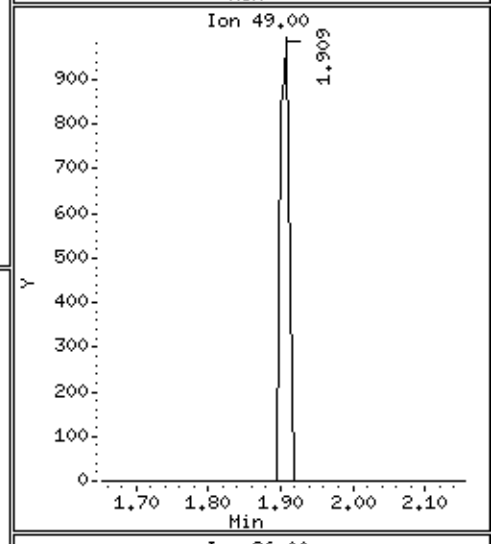


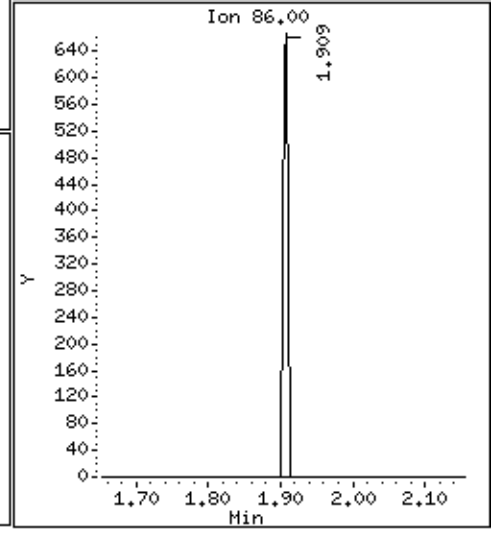












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

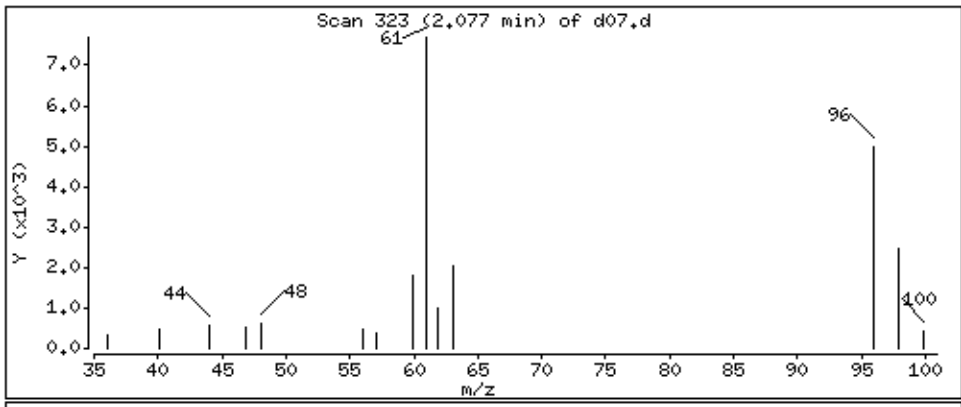
Operator: grm

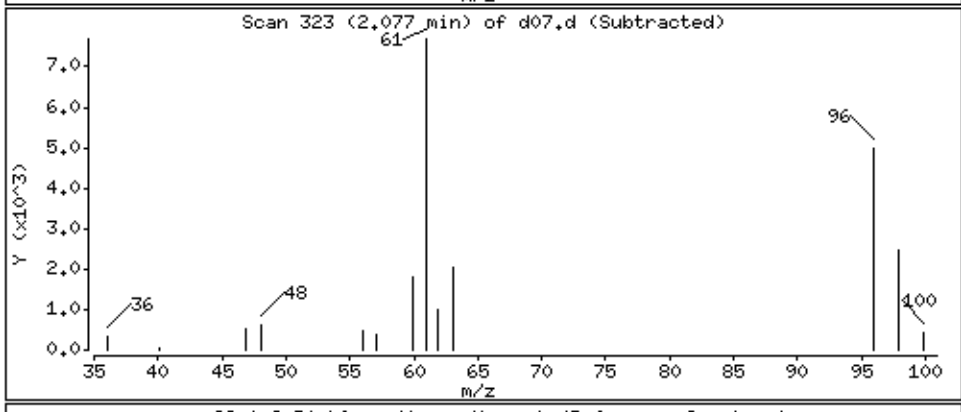
Column phase: DB-624

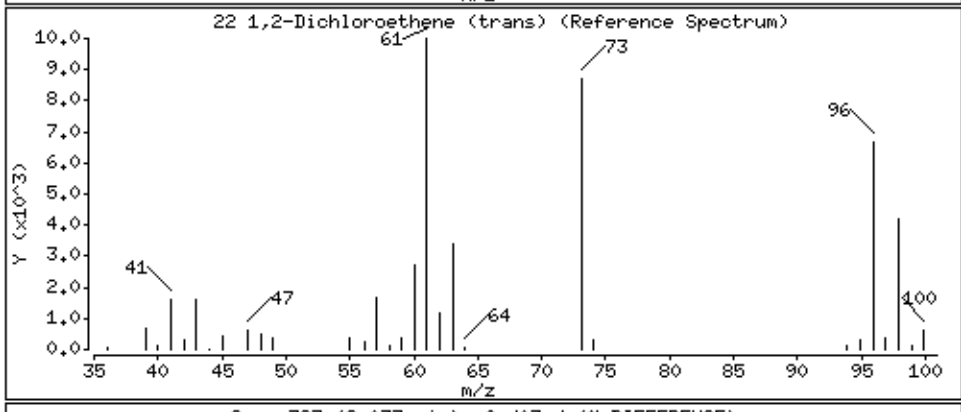
Column diameter: 0.18

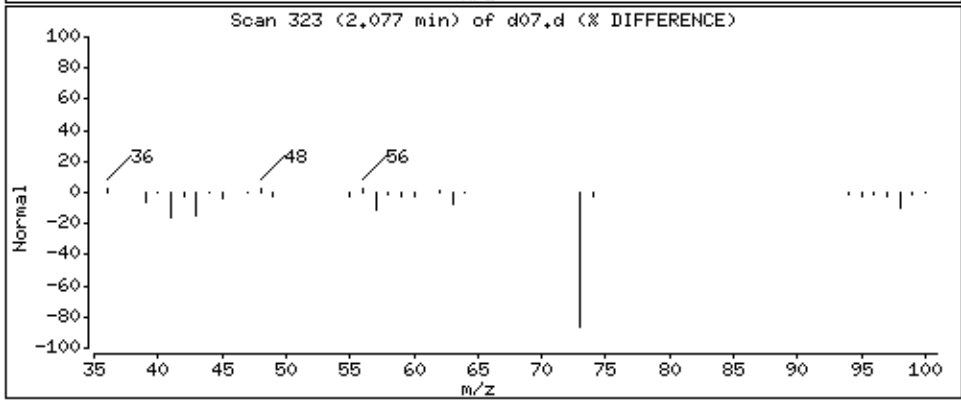
22 1,2-Dichloroethene (trans)

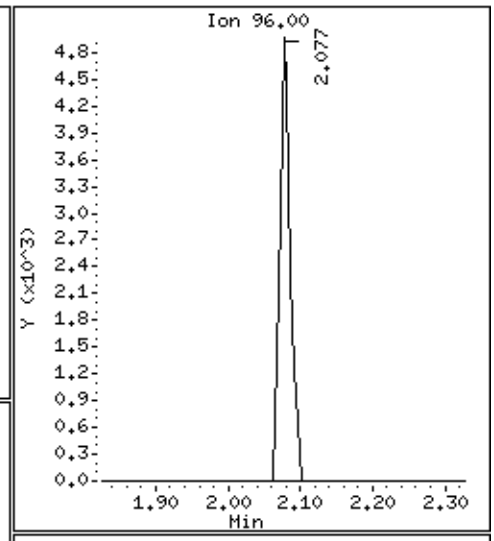
Concentration: 73.4 ppb

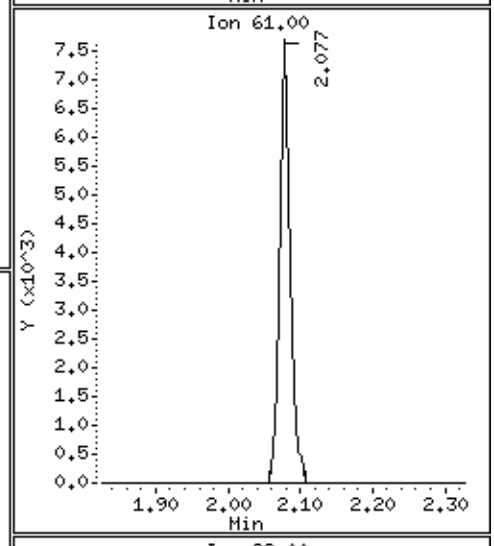


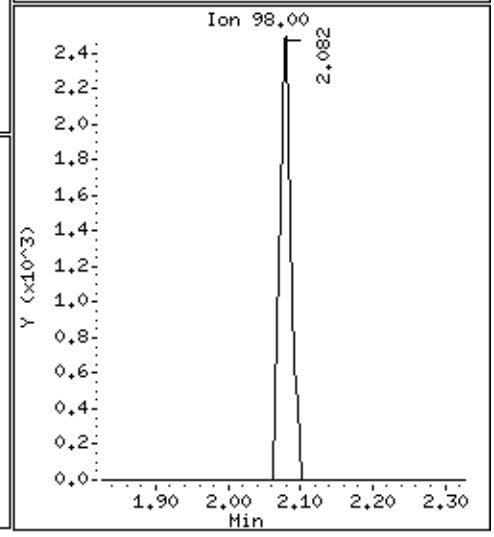












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

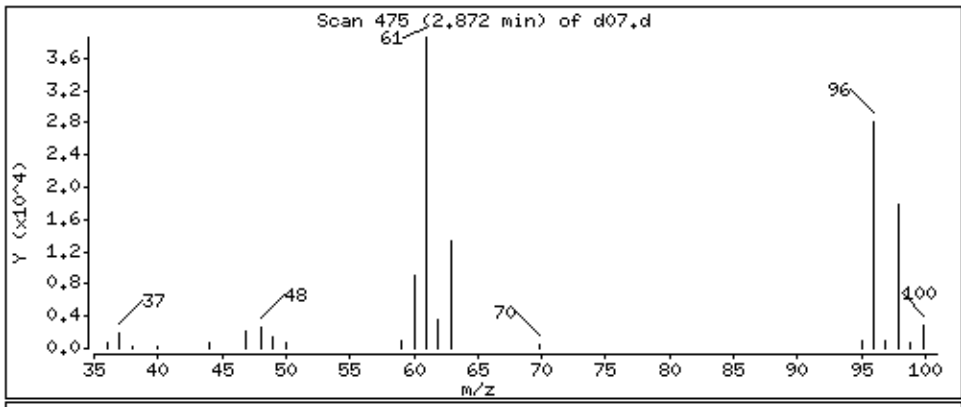
Operator: grm

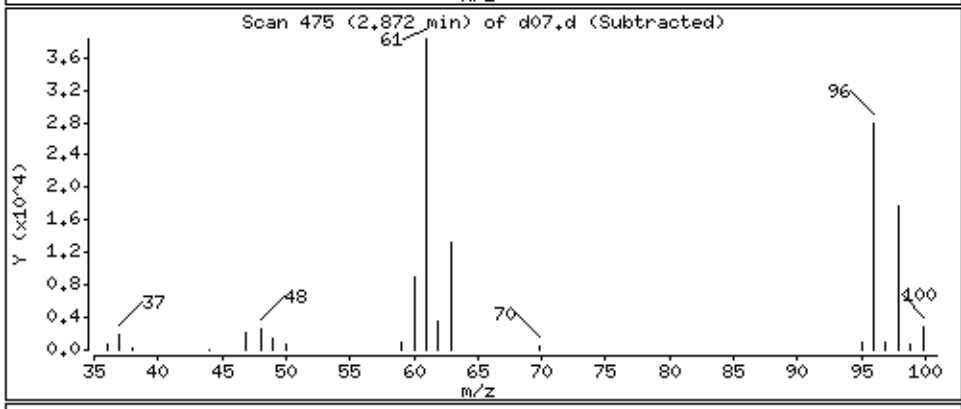
Column phase: DB-624

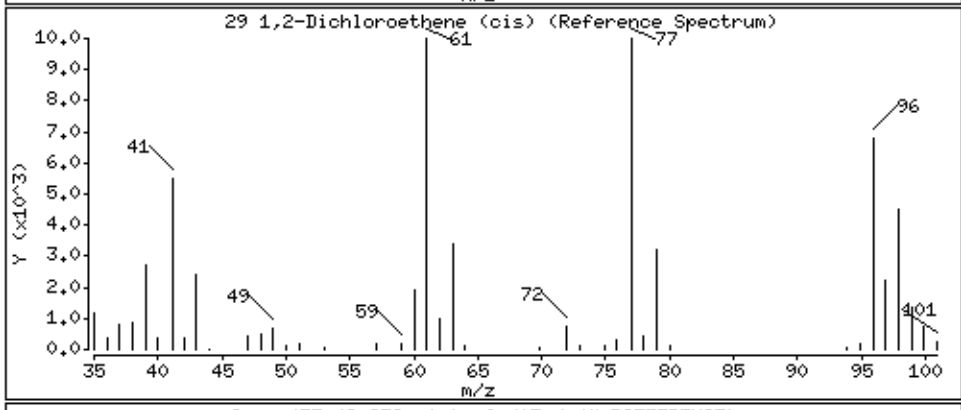
Column diameter: 0.18

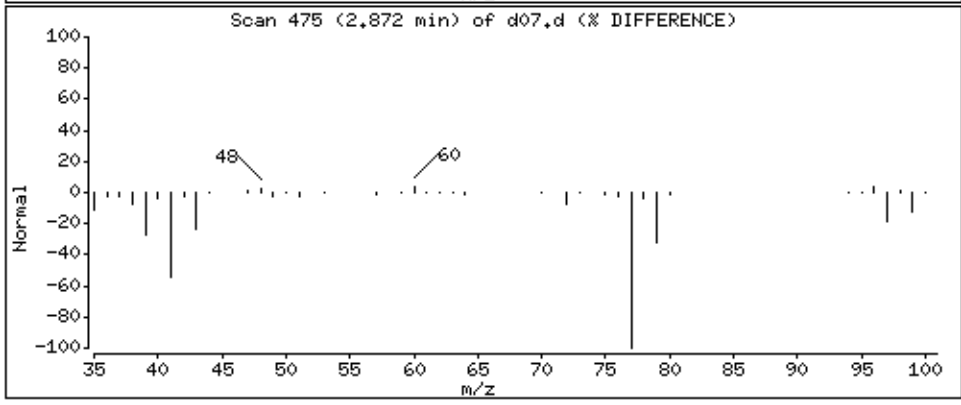
29 1,2-Dichloroethene (cis)

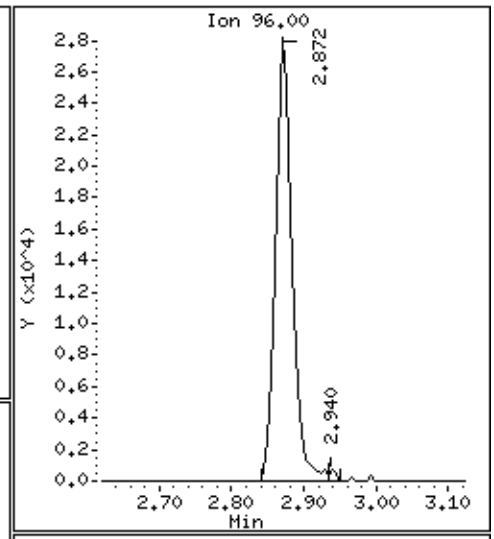
Concentration: 600 ppb

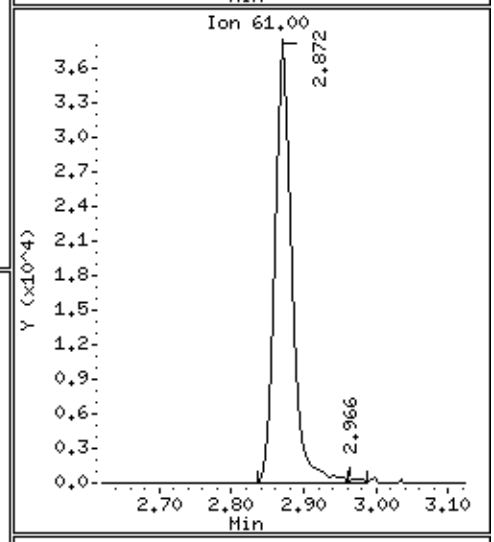


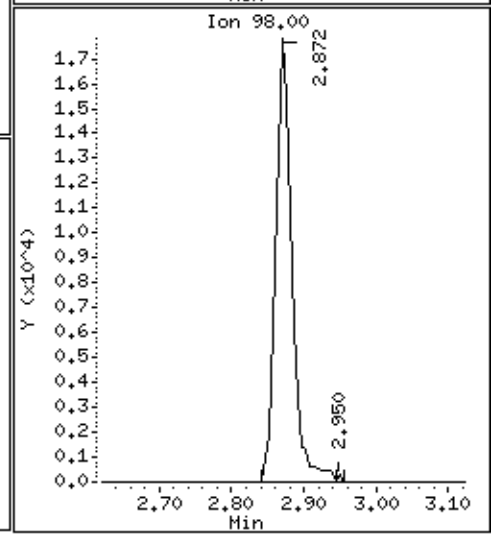












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

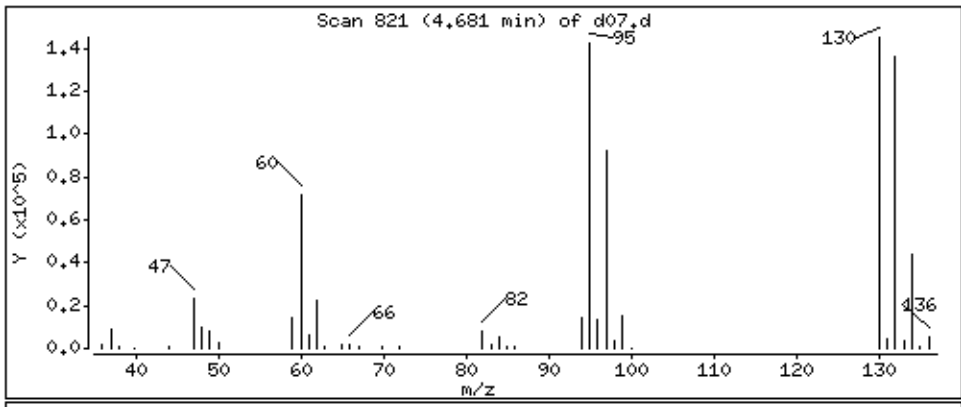
Operator: grm

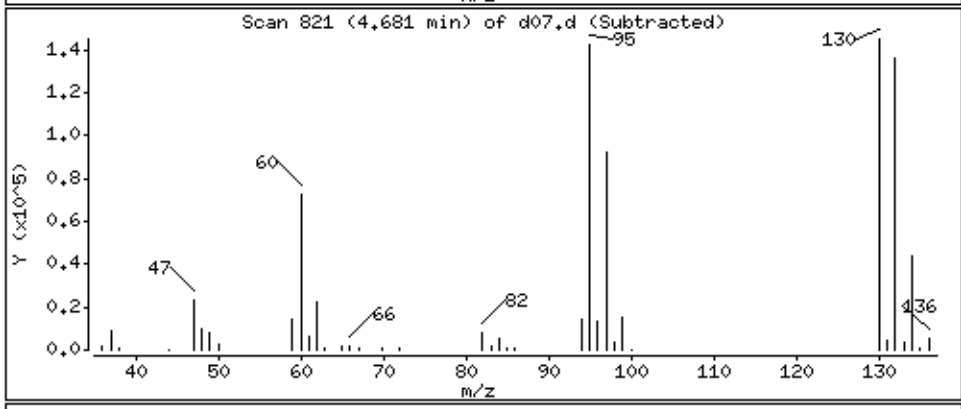
Column phase: DB-624

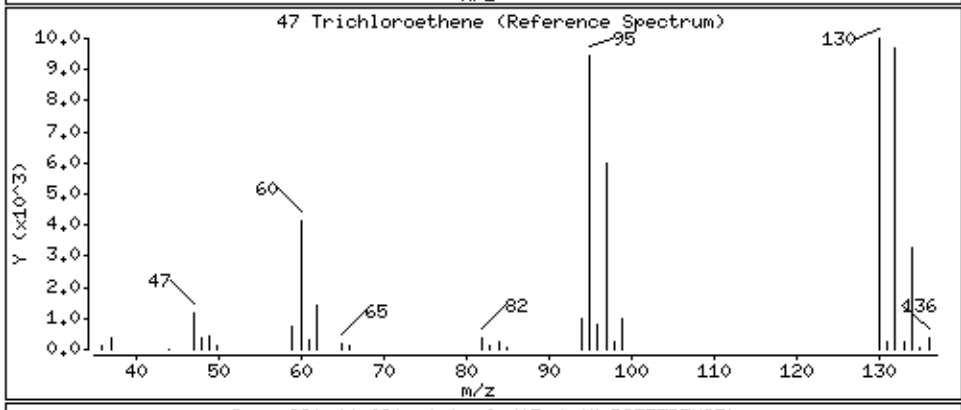
Column diameter: 0.18

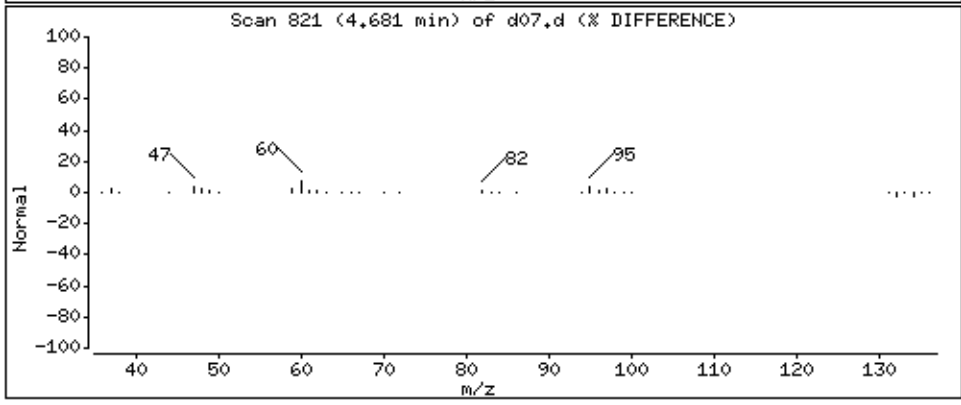
47 Trichloroethene

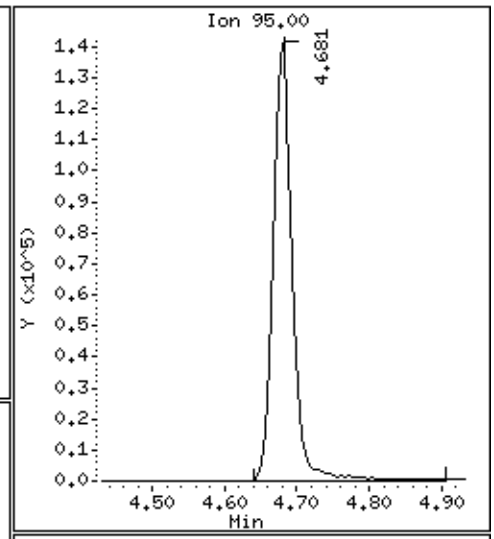
Concentration: 3570 ppb

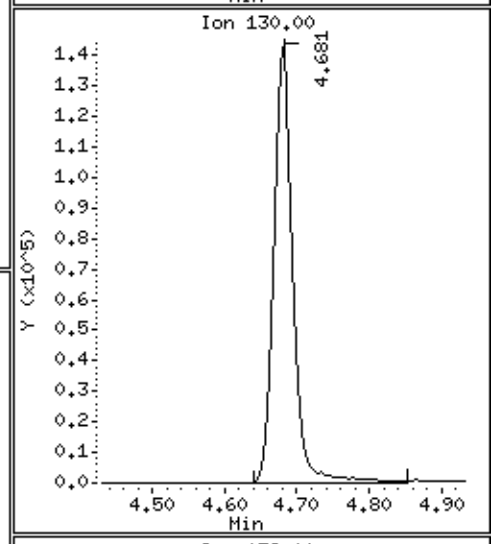


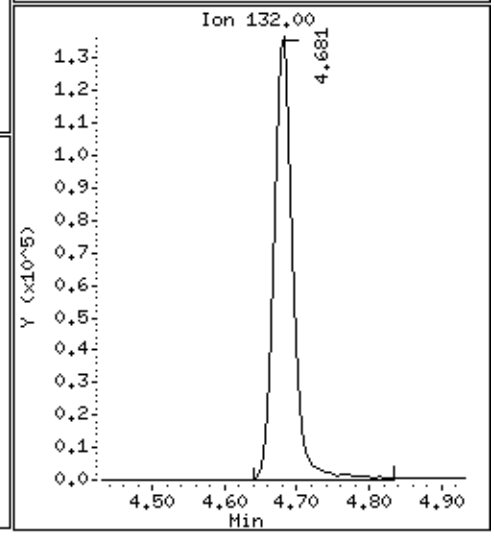












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d07.d

Date : 18-MAR-2016 04:05

Client ID: MW-0517-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212005x20

Purge Volume: 5.0

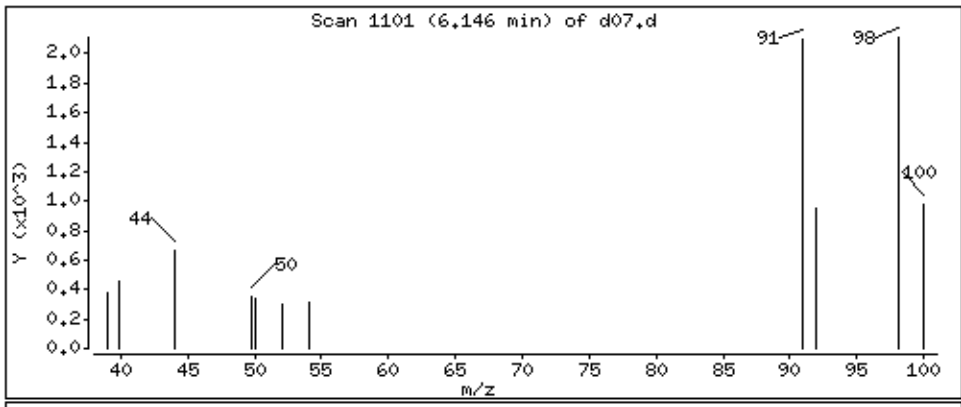
Operator: grm

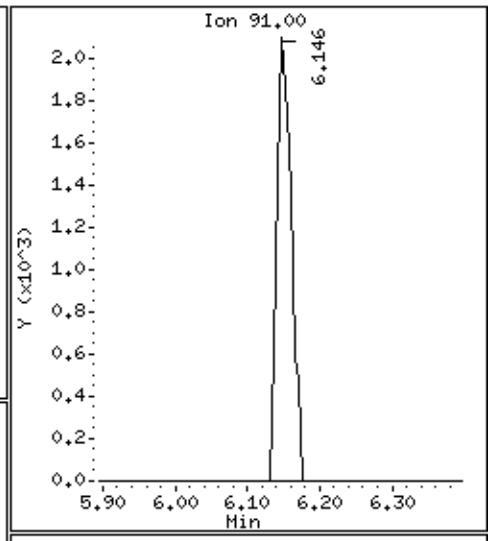
Column phase: DB-624

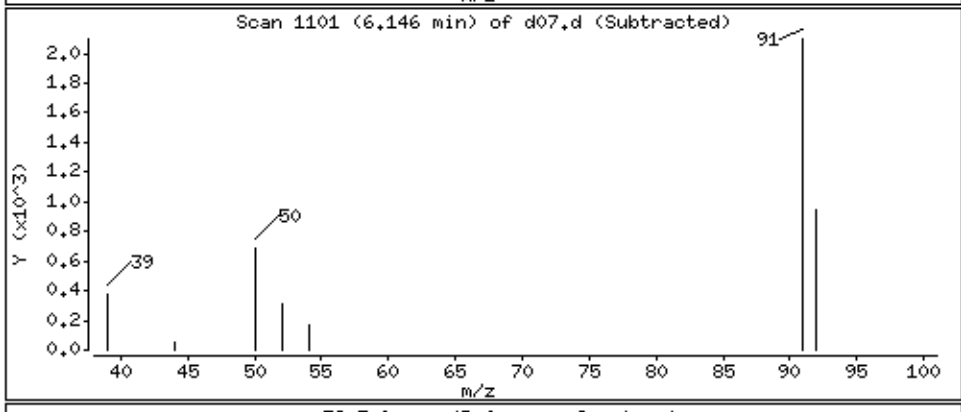
Column diameter: 0.18

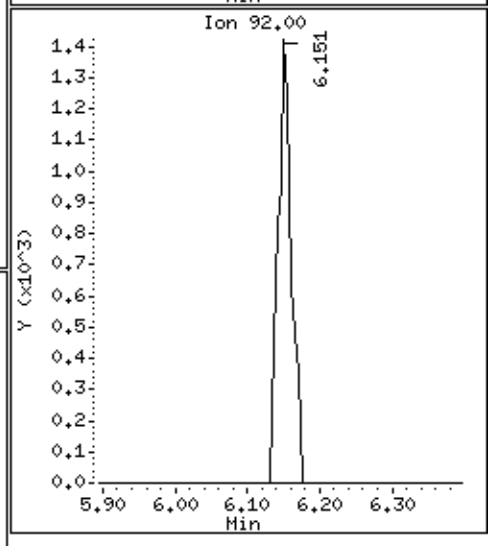
58 Toluene

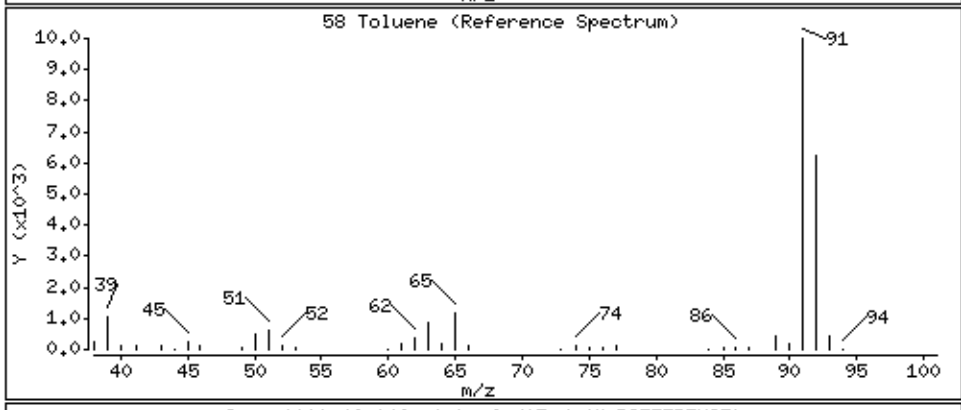
Concentration: 9.27 ppb

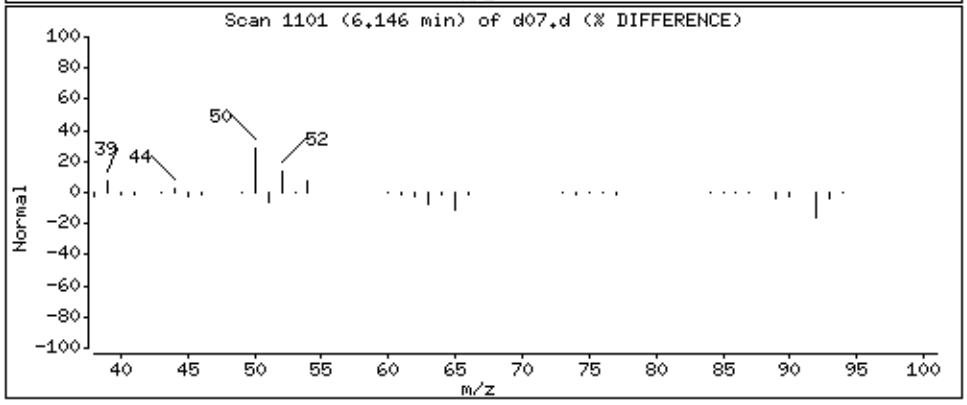












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d07.d
Injection Date: 18-MAR-2016 04:05
Instrument: 50mv1b.i
Lab Sample ID: 50140212005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0621-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 04:41 Lab Sample ID: 50140212006

Date Analyzed: 03/18/2016 04:41 Lab File ID: B031716.B\D08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	124	
156-60-5	trans-1,2-Dichloroethene	38.1	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0621-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 04:41 Lab Sample ID: 50140212006

Date Analyzed: 03/18/2016 04:41 Lab File ID: B031716.B\D08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d
Lab Smp Id: 50140212006 Client Smp ID: MW-0621-S1(030916)
Inj Date : 18-MAR-2016 04:41
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212006x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 81
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	651	0.25124	1.26	
	7 Diethyl ether	74	1.497	1.496	(0.354)	669	0.98915	4.94(Q)	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	11366	7.62175	38.1	
	29 1,2-Dichloroethene (cis)	96	2.868	2.872	(0.678)	38666	24.8994	124	
$	38 Dibromofluoromethane (S)	113	3.396	3.400	(0.802)	77608	52.9031	52.9	
*	46 Fluorobenzene (IS)	96	4.233	4.232	(1.000)	282500	50.0000		
	47 Trichloroethene	95	4.682	4.682	(1.106)	943126	624.657	3120	
$	57 Toluene-d8	98	6.074	6.073	(0.822)	267853	49.3939	49.4	
	58 Toluene	91	6.147	6.146	(0.832)	3459	0.52005	2.60	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.391	(1.000)	208847	50.0000		
$	76 4-Bromofluorobenzene	95	8.208	8.207	(1.110)	98669	52.0441	52.0	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	110683	50.0000		

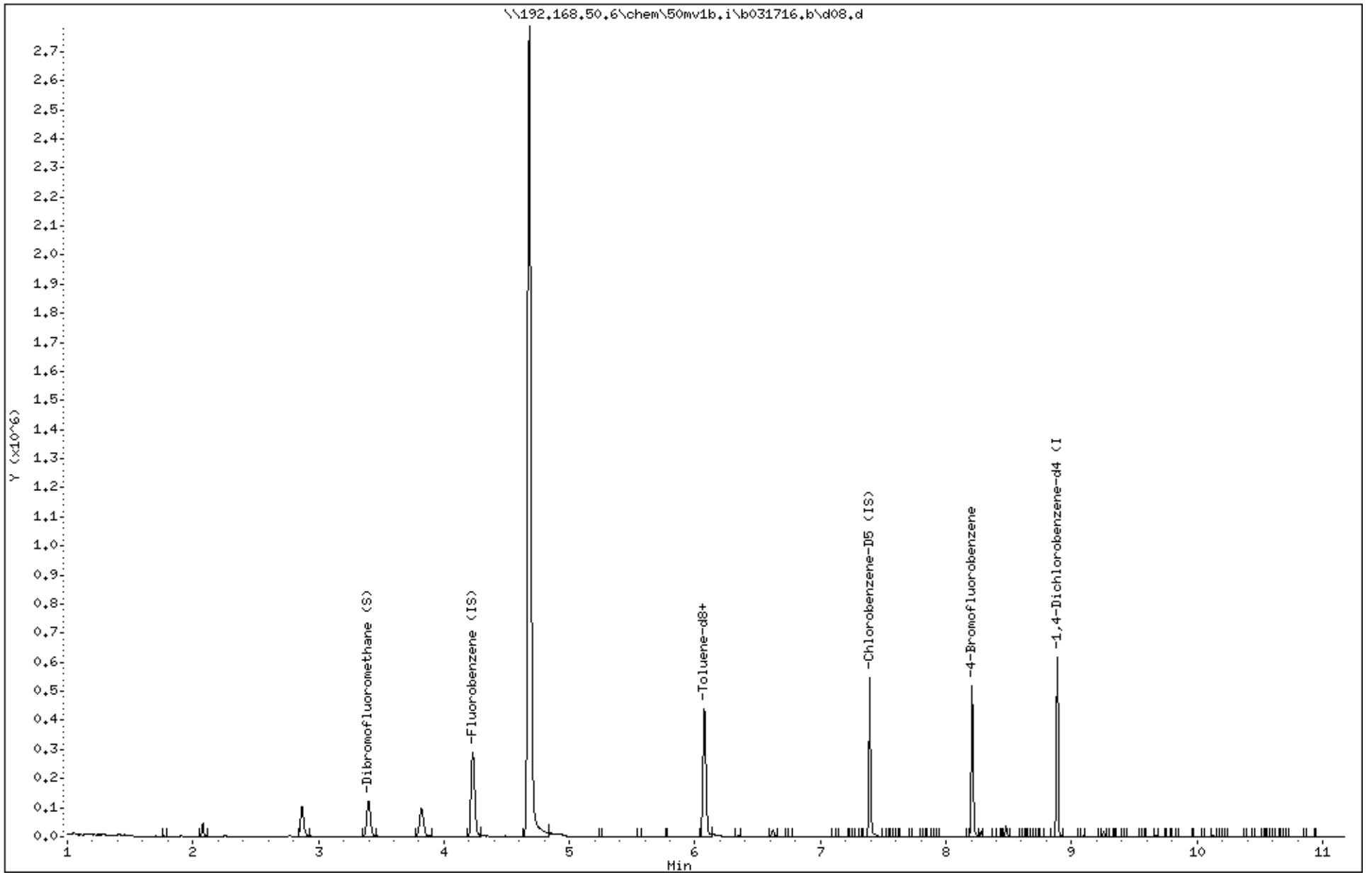
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d
Date : 18-MAR-2016 04:41
Client ID: MW-0621-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212006x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

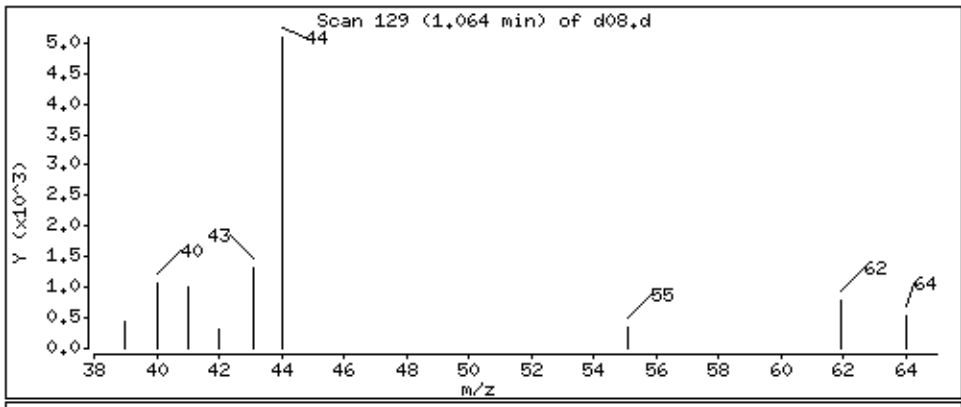
Operator: grm

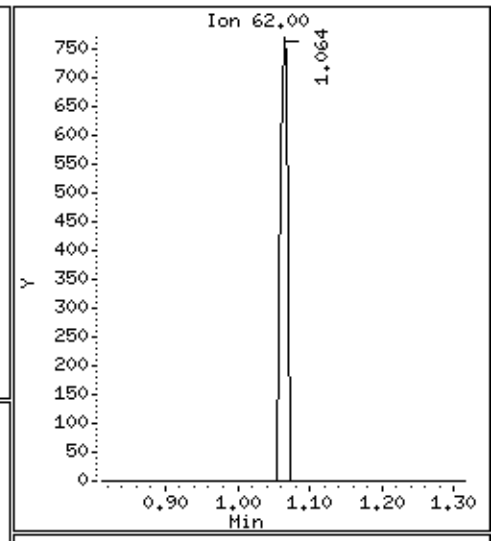
Column phase: DB-624

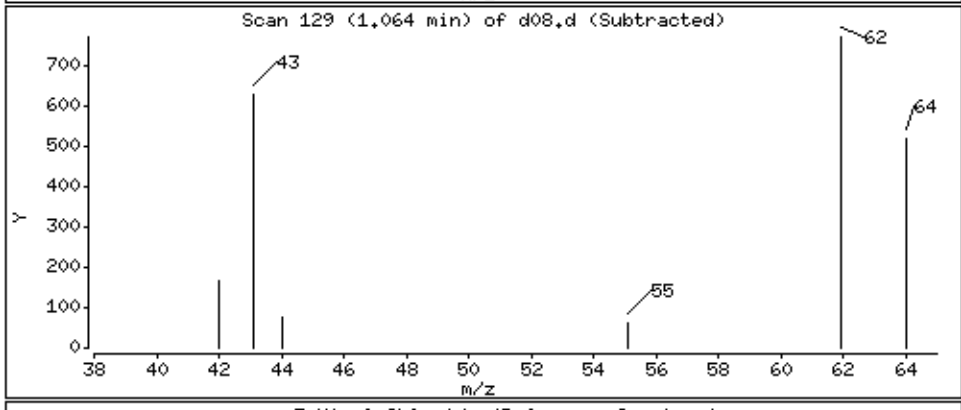
Column diameter: 0.18

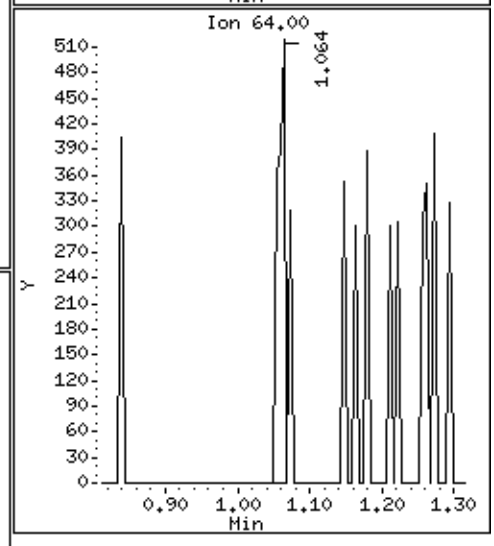
3 Vinyl Chloride

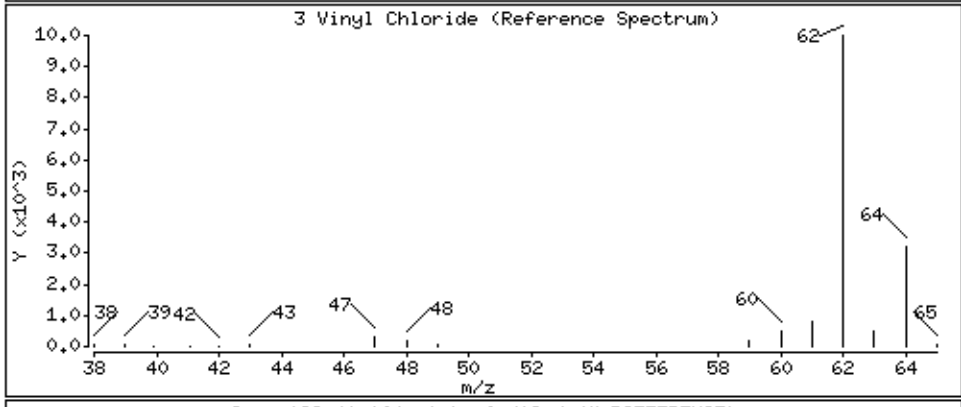
Concentration: 1.26 ppb

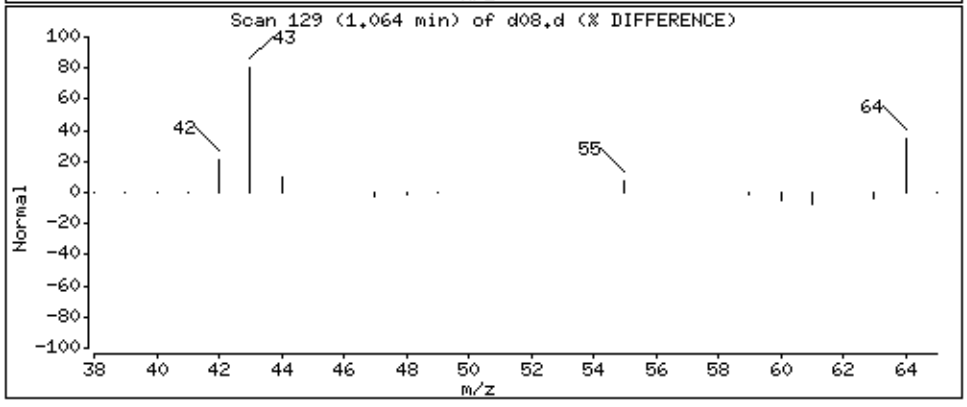












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

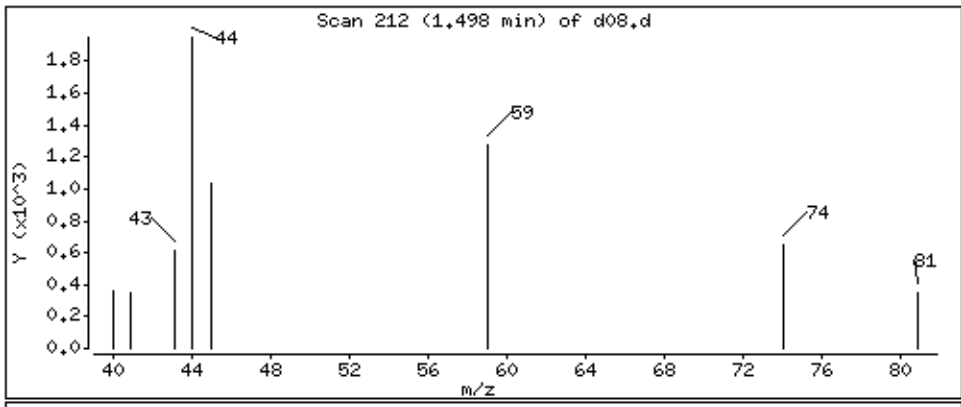
Operator: grm

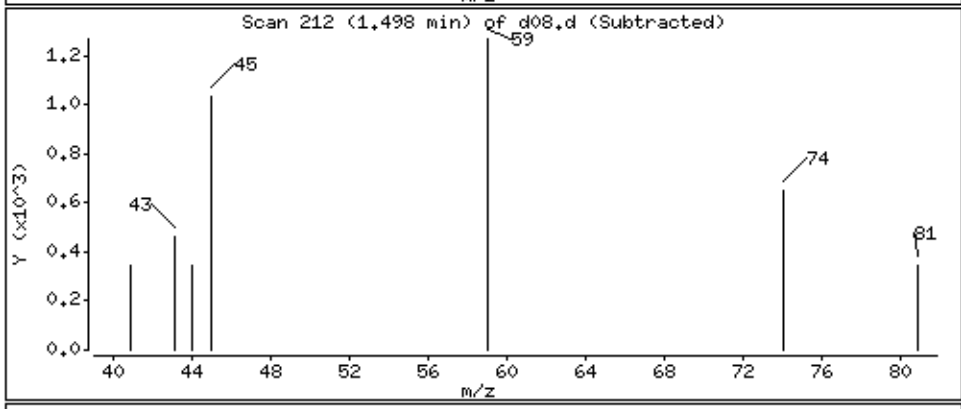
Column phase: DB-624

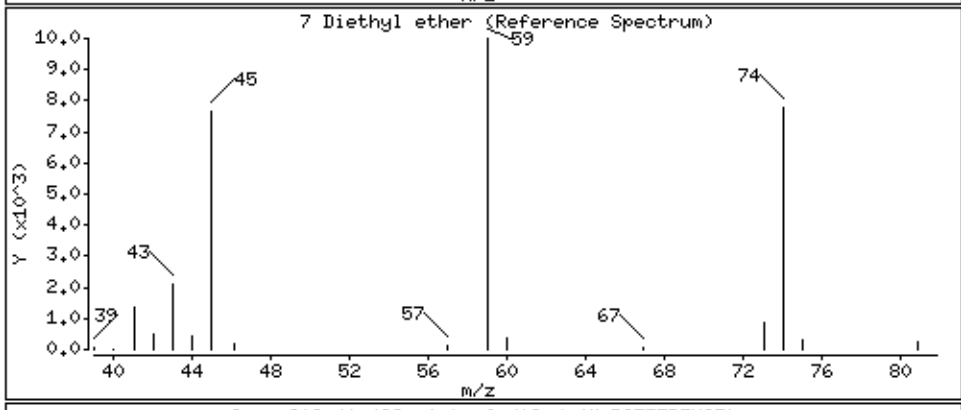
Column diameter: 0.18

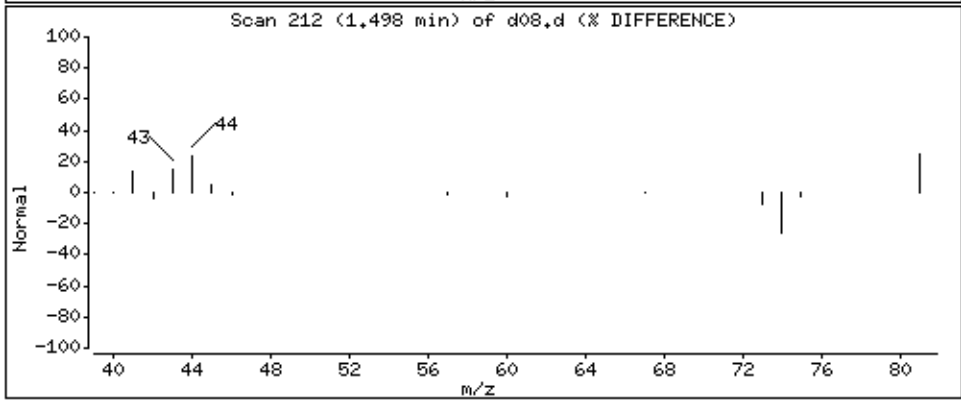
7 Diethyl ether

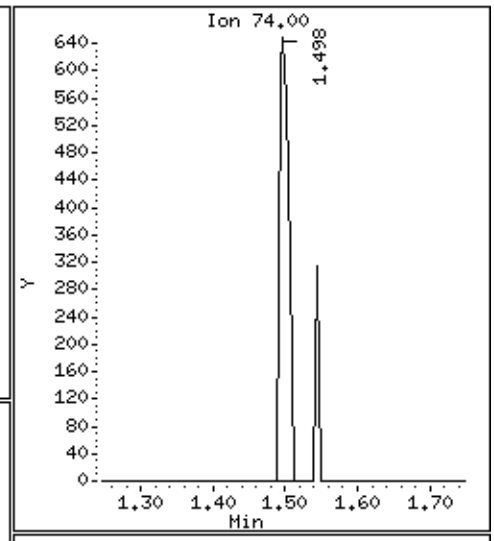
Concentration: 4.94 ppb

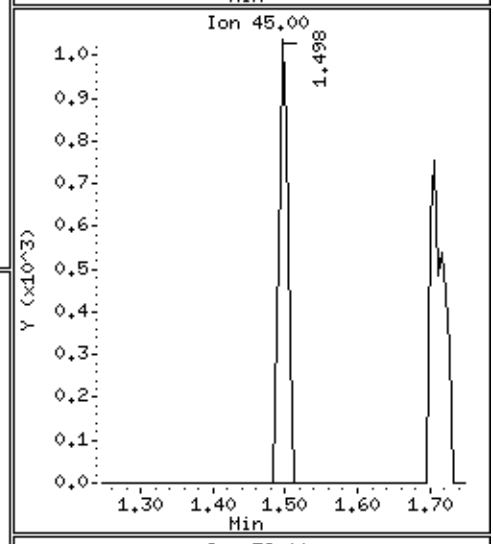


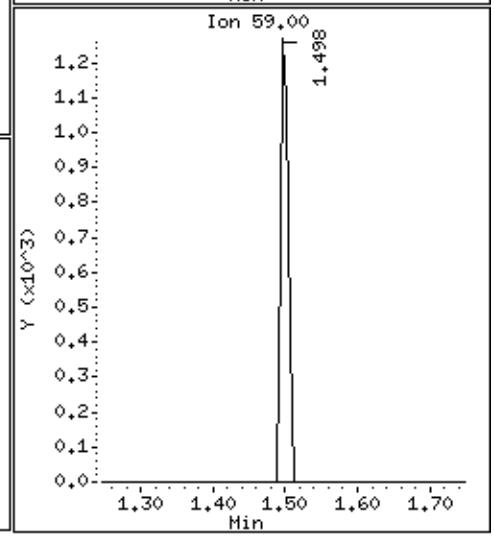












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

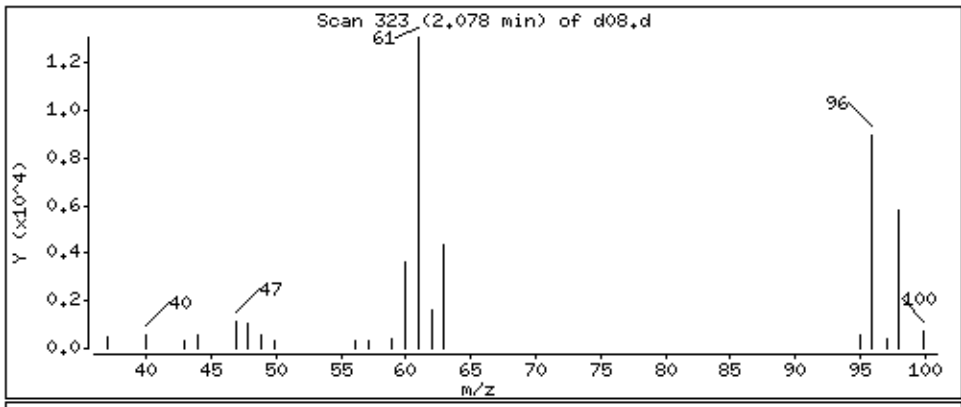
Operator: grm

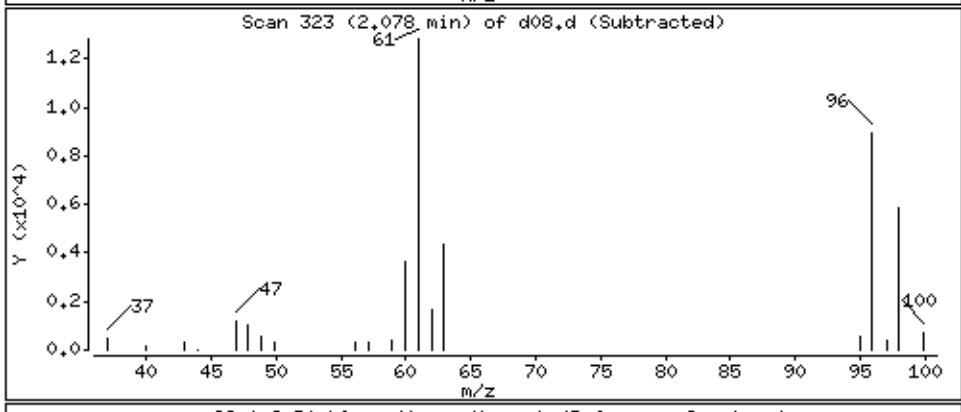
Column phase: DB-624

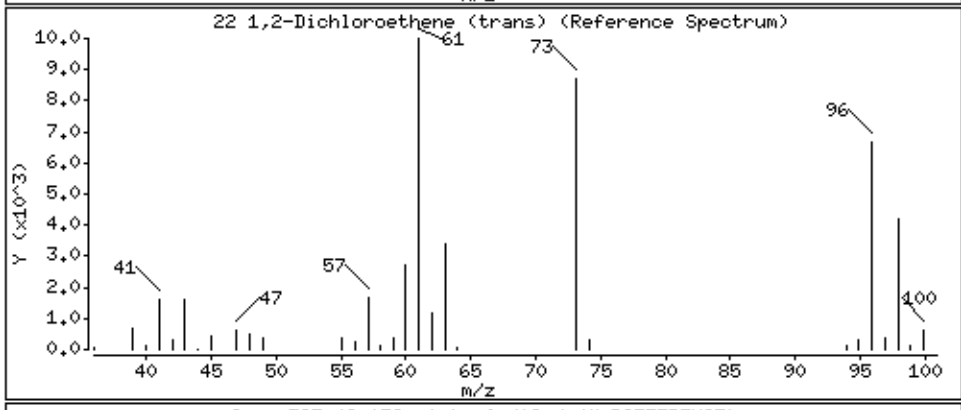
Column diameter: 0.18

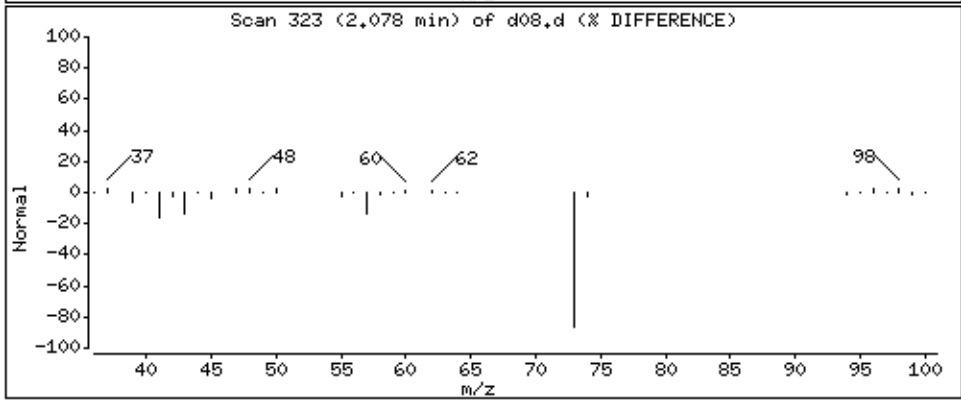
22 1,2-Dichloroethene (trans)

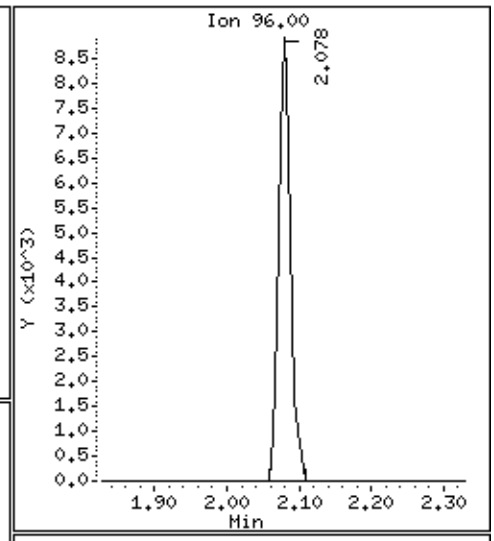
Concentration: 38.1 ppb

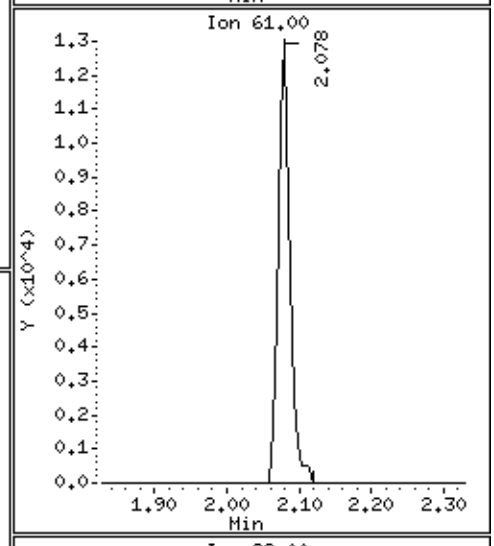


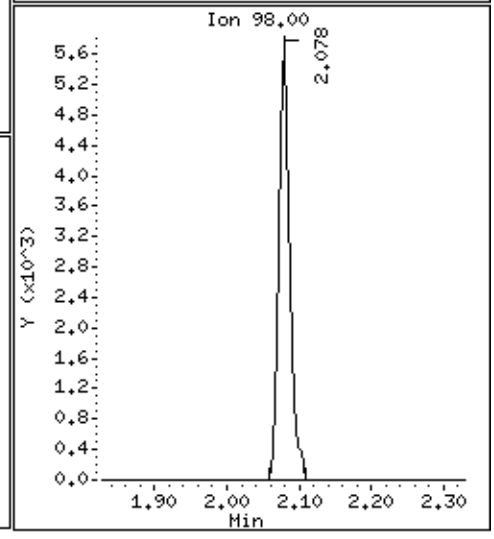












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

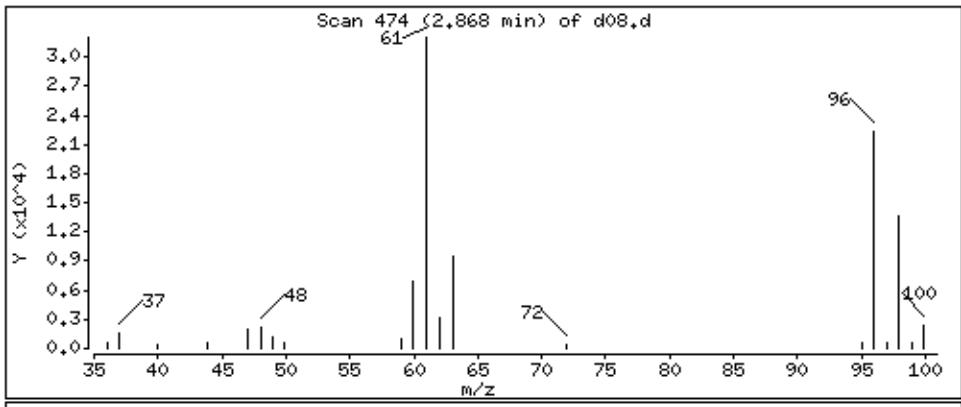
Operator: grm

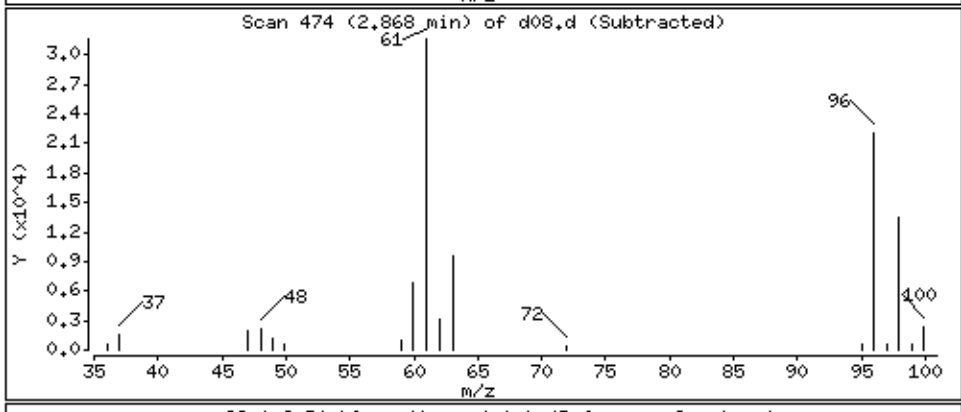
Column phase: DB-624

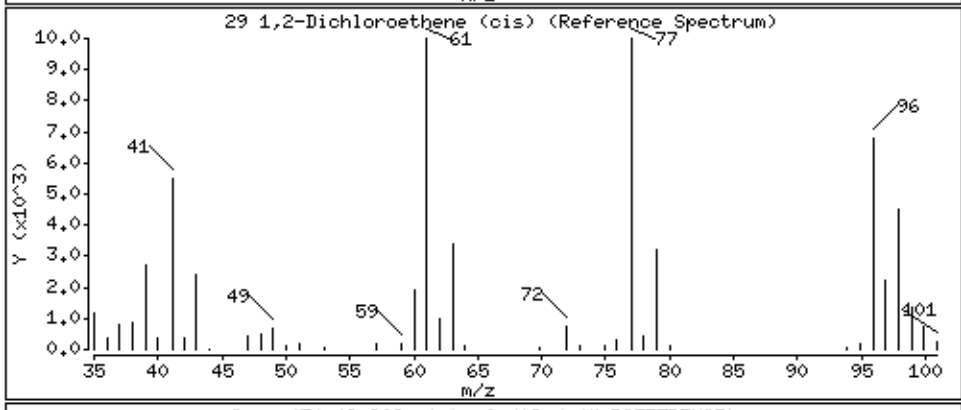
Column diameter: 0.18

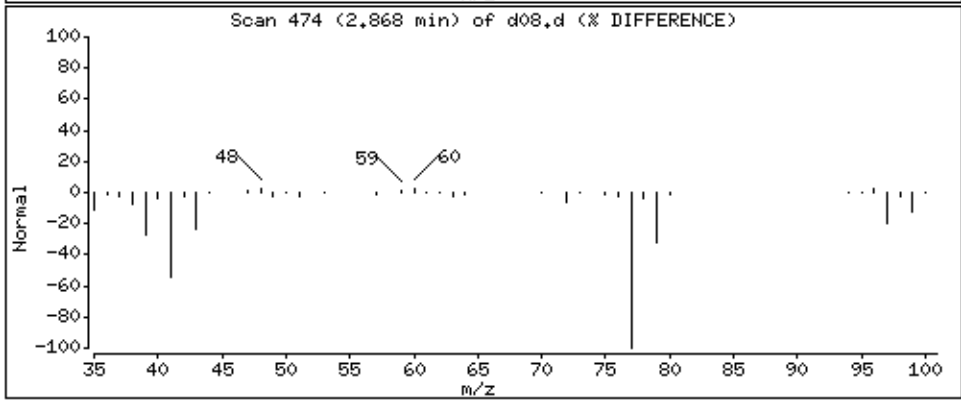
29 1,2-Dichloroethene (cis)

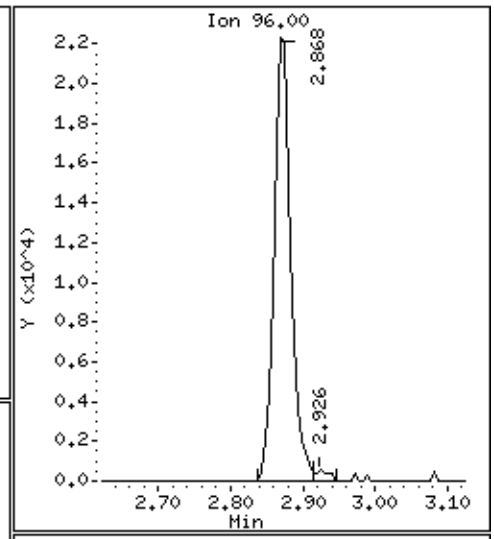
Concentration: 124 ppb

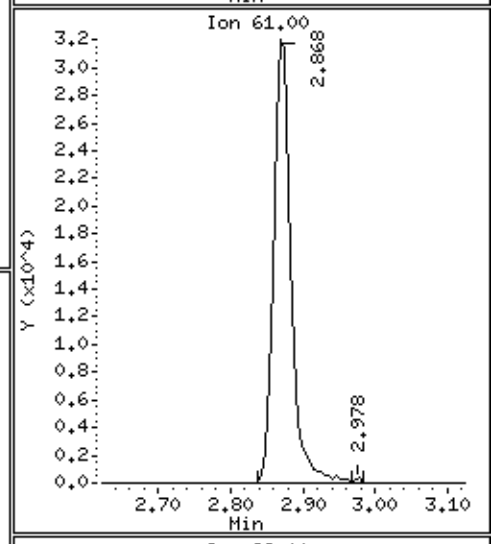


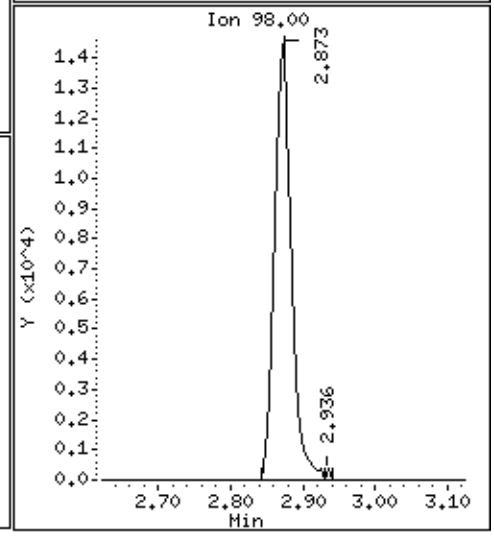












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

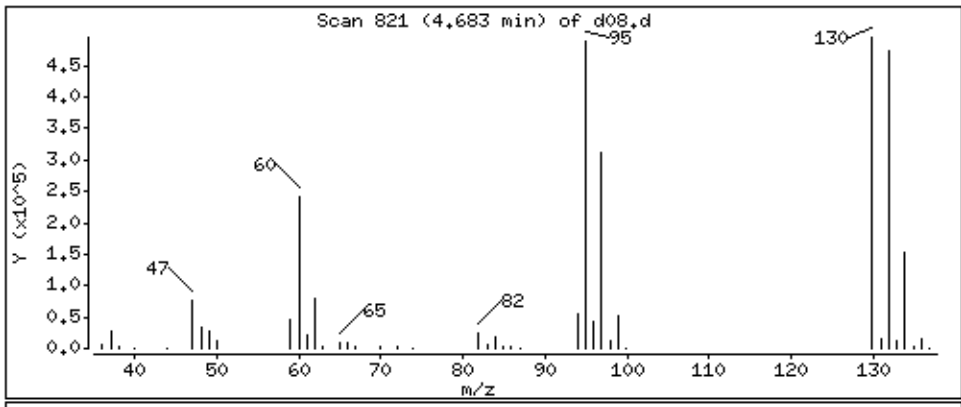
Operator: grm

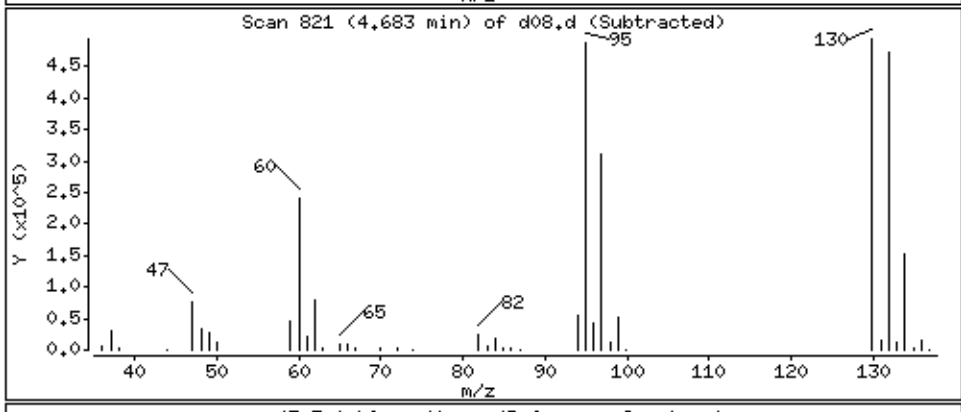
Column phase: DB-624

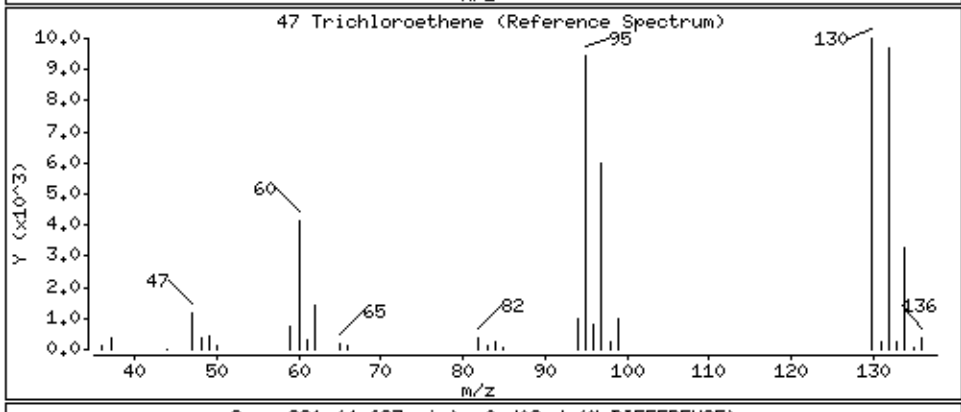
Column diameter: 0.18

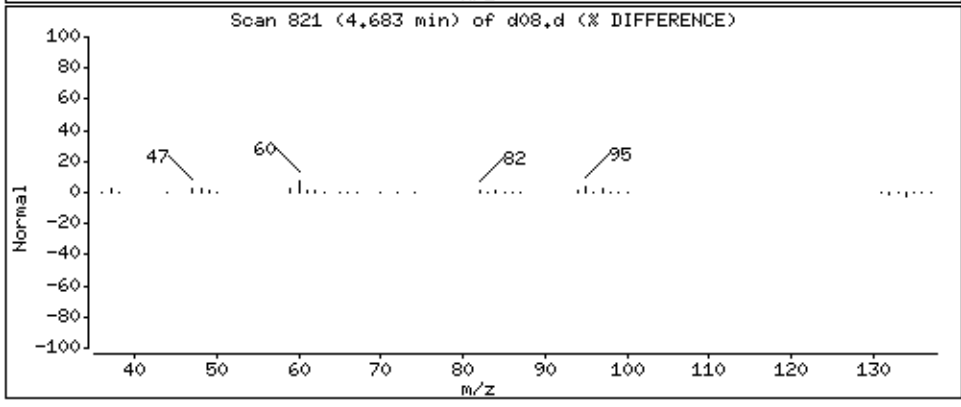
47 Trichloroethene

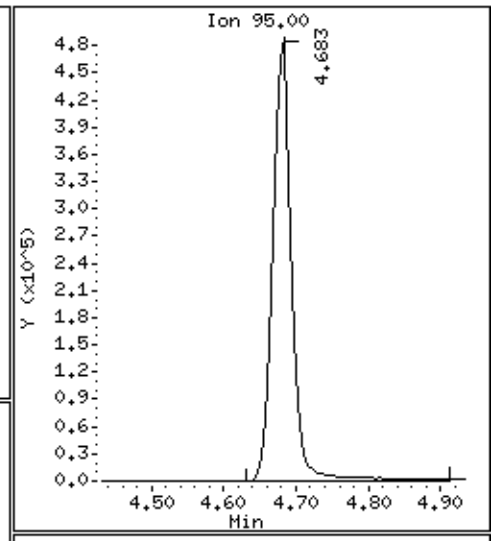
Concentration: 3120 ppb

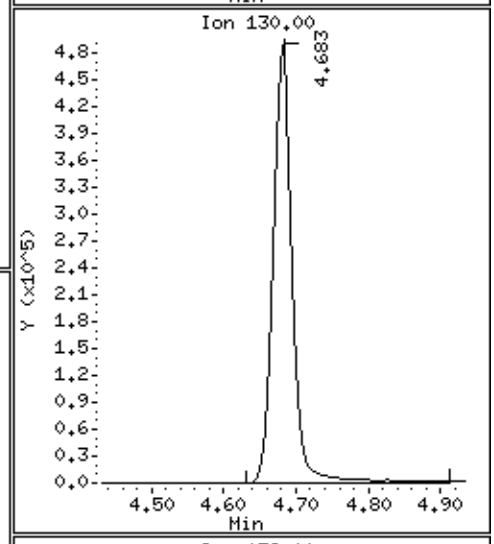


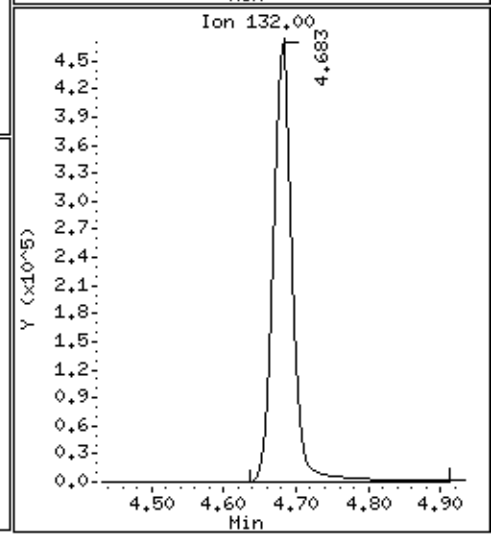












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d08.d

Date : 18-MAR-2016 04:41

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x5

Purge Volume: 5.0

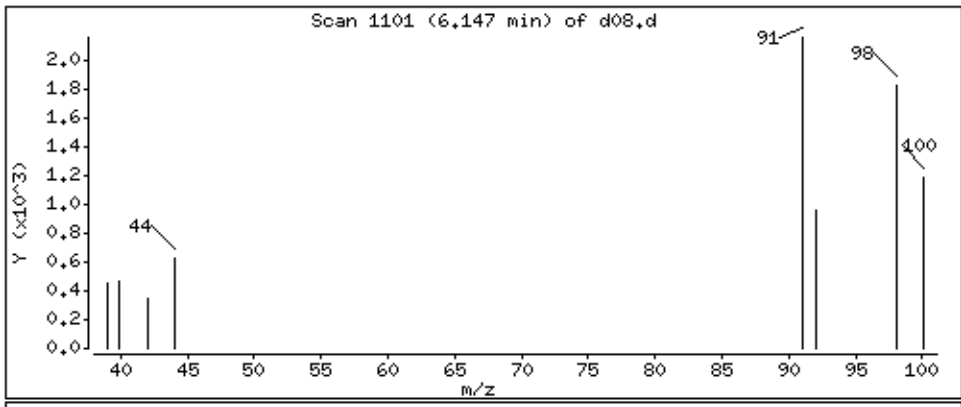
Operator: grm

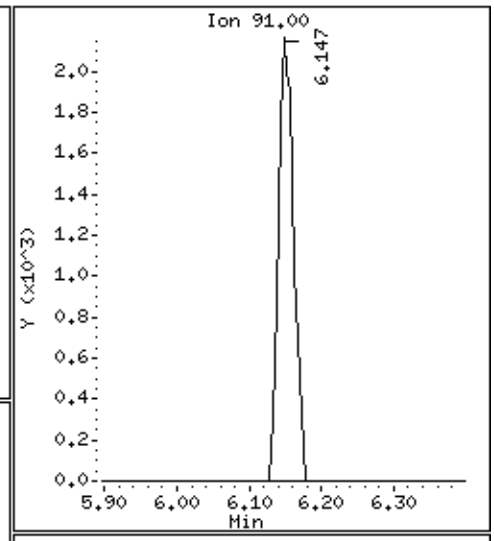
Column phase: DB-624

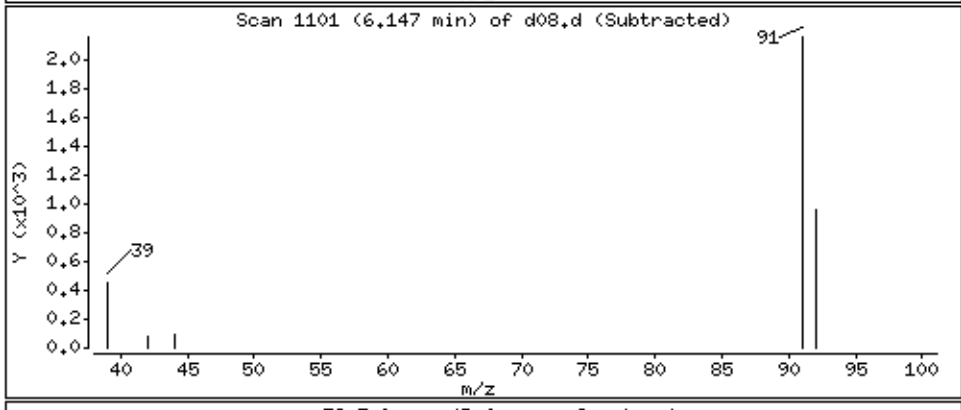
Column diameter: 0.18

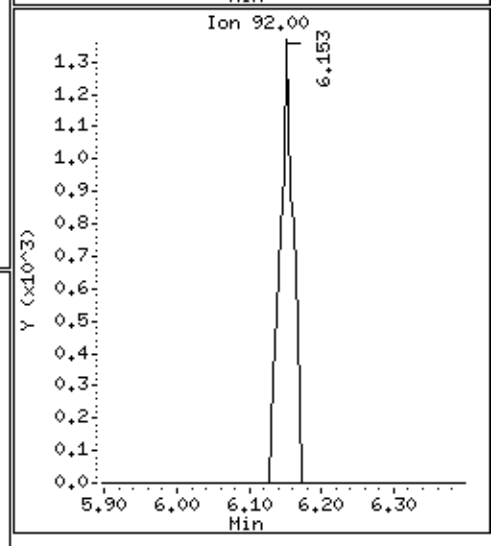
58 Toluene

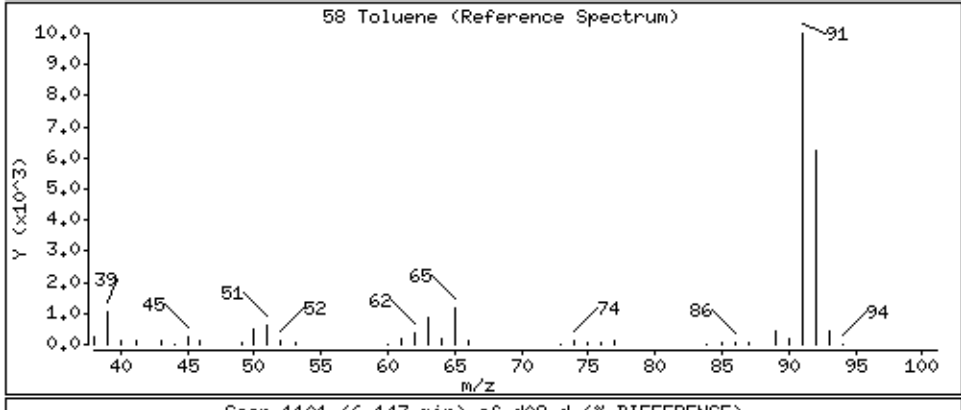
Concentration: 2.60 ppb

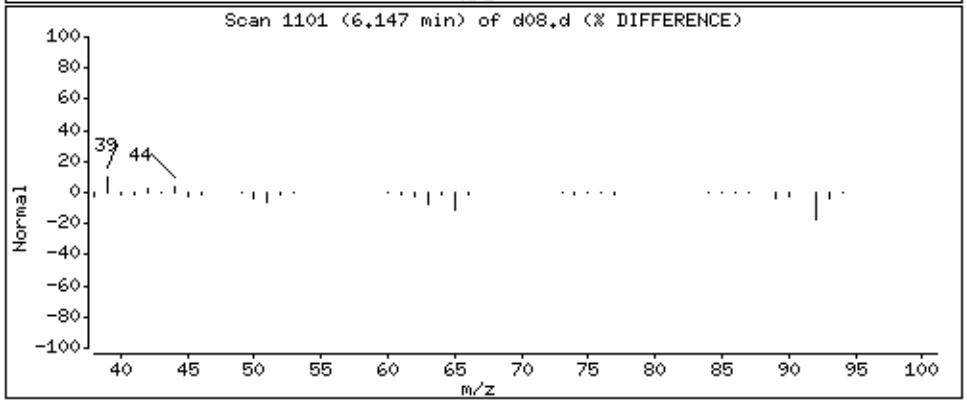












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d08.d
Injection Date: 18-MAR-2016 04:41
Instrument: 50mv1b.i
Lab Sample ID: 50140212006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0621-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 06:26 Lab Sample ID: 50140212006

Date Analyzed: 03/18/2016 06:26 Lab File ID: B031716.B\D11.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	3030	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d
Lab Smp Id: 50140212006 Client Smp ID: MW-0621-S1(030916)
Inj Date : 18-MAR-2016 06:26
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212006x50
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 84
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.496	1.496	(0.354)	914	1.35773	67.9	
	18 Methylene Chloride	84	1.904	1.904	(0.450)	693	0.43165	21.6	
	22 1,2-Dichloroethene (trans)	96	2.071	2.077	(0.490)	921	0.62049	31.0	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	3870	2.50381	125	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	78016	53.4305	53.4	
*	46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	281182	50.0000		
	47 Trichloroethene	95	4.676	4.682	(1.105)	91175	60.6706	3030	
$	57 Toluene-d8	98	6.078	6.073	(0.822)	269179	48.7727	48.8	
	58 Toluene	91	6.151	6.146	(0.832)	3828	0.56549	28.3	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	212554	50.0000		
	70 Ethylbenzene	106	7.495	7.495	(1.014)	258	0.10787	5.39(Q)	
	71 m&p-Xylene	106	7.605	7.590	(1.029)	1131	0.37773	18.9	
	73 Styrene	104	7.877	7.867	(1.066)	503	0.10357	5.18	
$	76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	101636	52.6742	52.7	
	77 Bromobenzene	77	8.285	8.285	(1.121)	407	0.14708	7.35	
	82 n-Propylbenzene	91	8.358	8.353	(0.941)	1343	0.14473	7.24	
	84 1,3,5-Trimethylbenzene	105	8.463	8.463	(0.952)	550	0.08714	4.36	
	87 1,2,4-Trimethylbenzene	105	8.682	8.677	(0.977)	1072	0.16322	8.16	
	89 1,3-Dichlorobenzene	146	8.844	8.840	(0.995)	818	0.20898	10.4(Q)	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	113722	50.0000		
	92 1,4-Dichlorobenzene	146	8.897	8.897	(1.001)	848	0.21589	10.8(Q)	
	94 1,2-Dichlorobenzene	146	9.095	9.091	(1.024)	531	0.15430	7.71(Q)	
	98 Naphthalene	128	10.074	10.058	(1.134)	3100	0.53336	26.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
100 2,methyl-naphthalene	142	10.727	10.702	(1.207)	2570	0.65957	33.0	

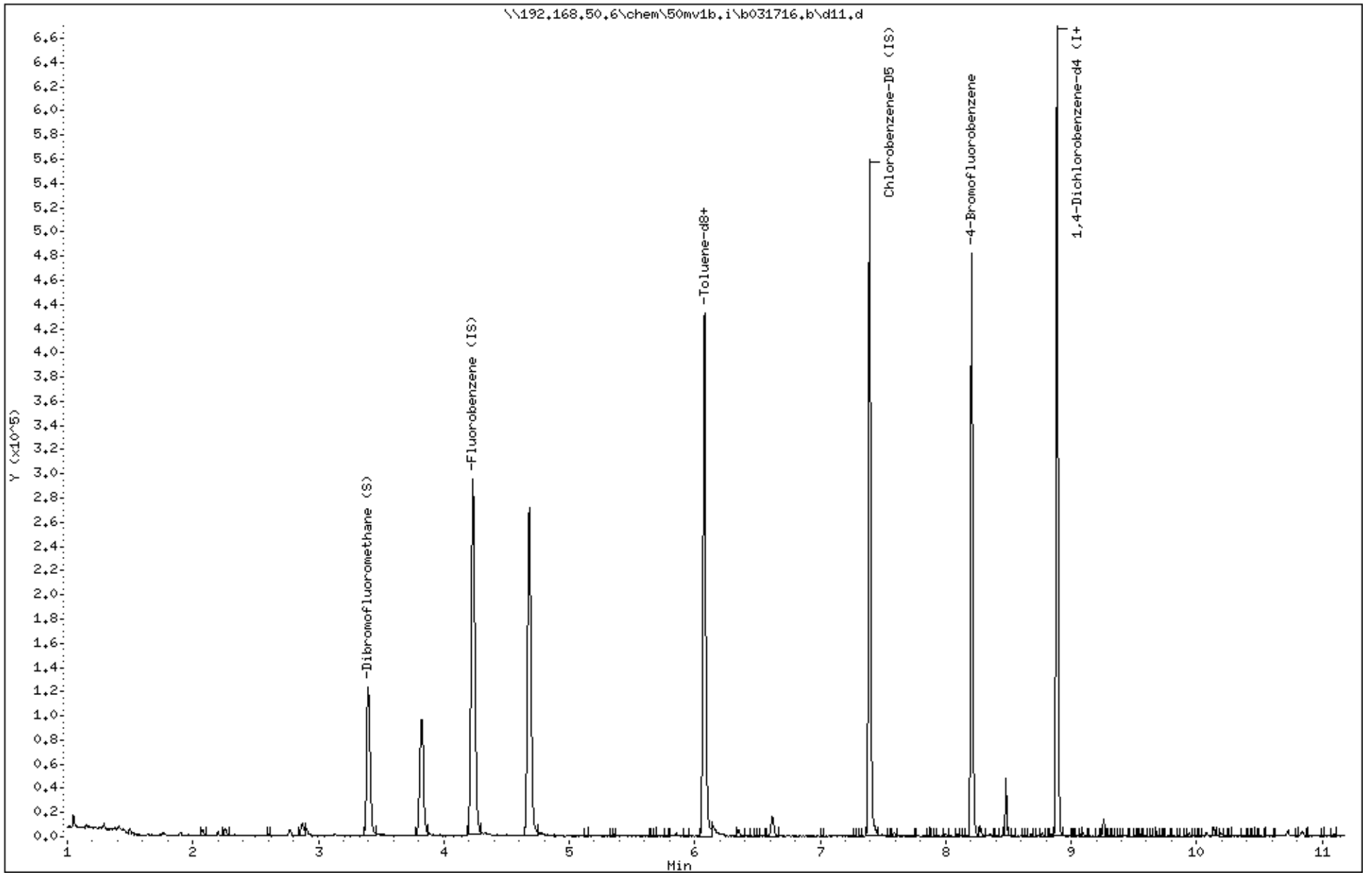
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d
Date : 18-MAR-2016 06:26
Client ID: MW-0621-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212006x50
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

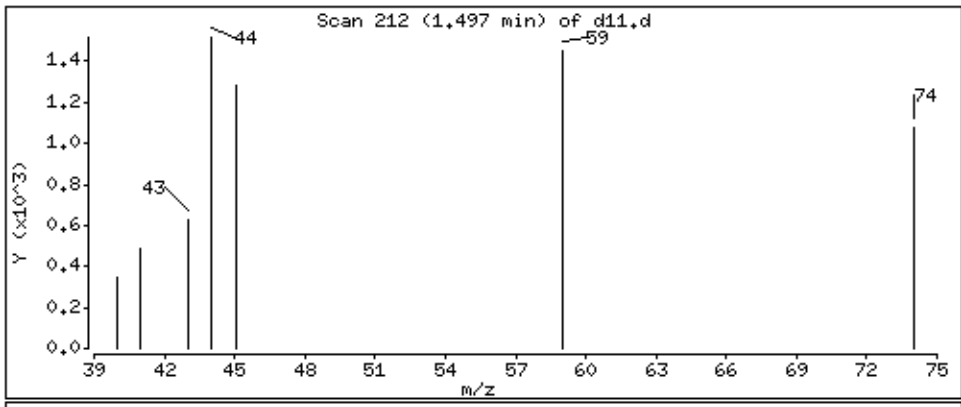
Operator: grm

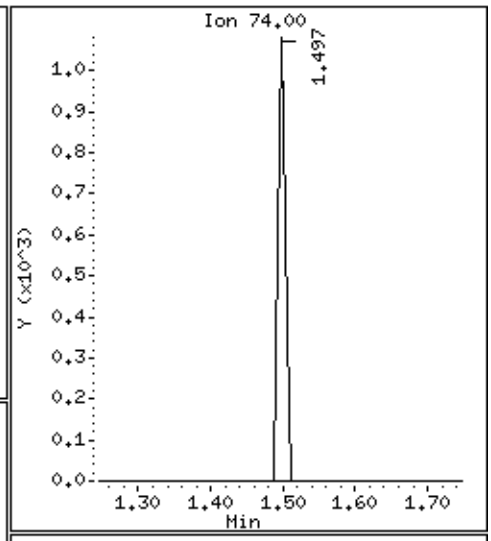
Column phase: DB-624

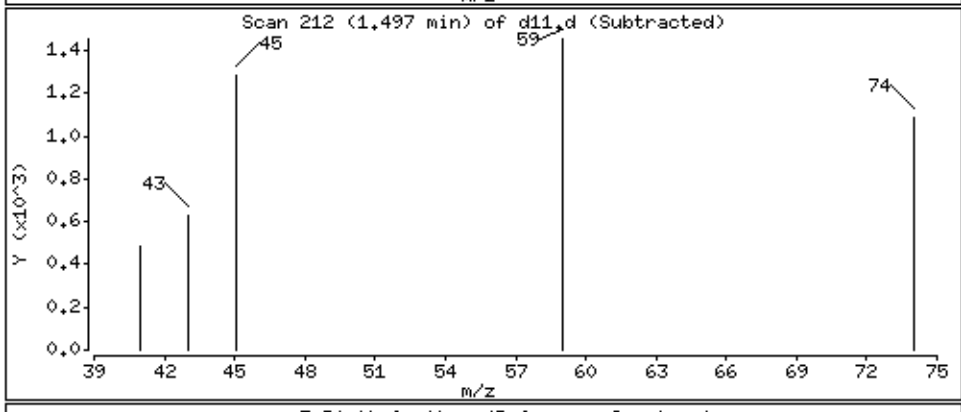
Column diameter: 0.18

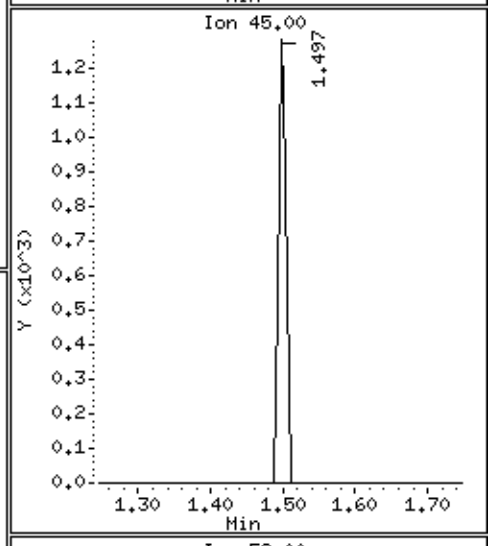
7 Diethyl ether

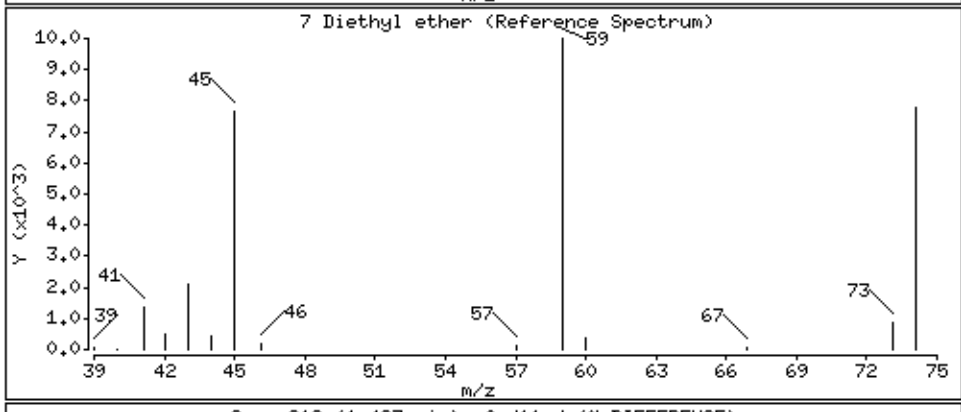
Concentration: 67.9 ppb

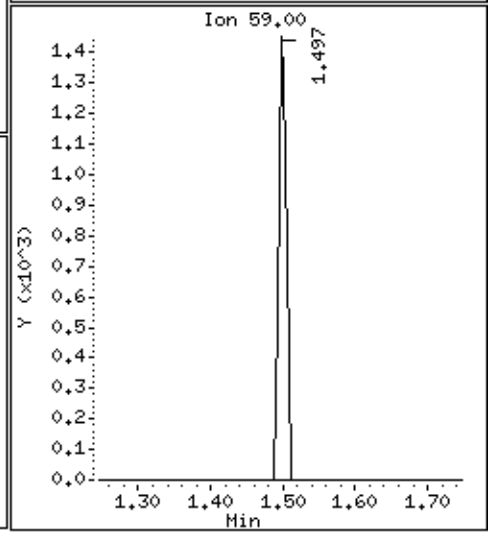


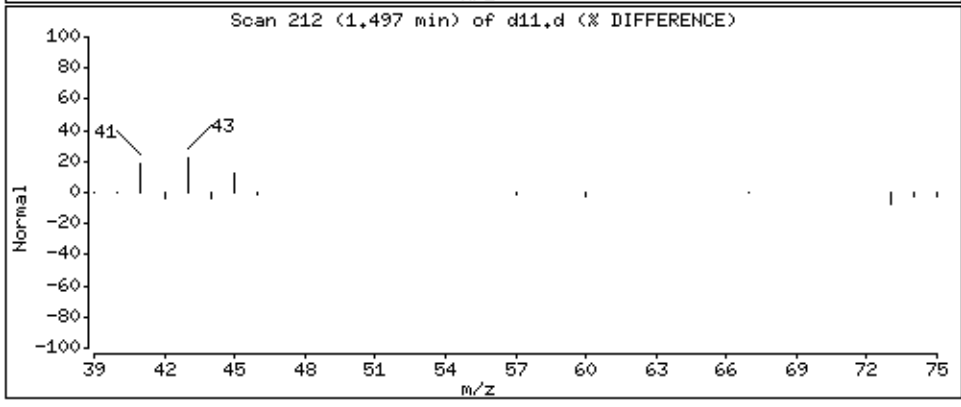












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

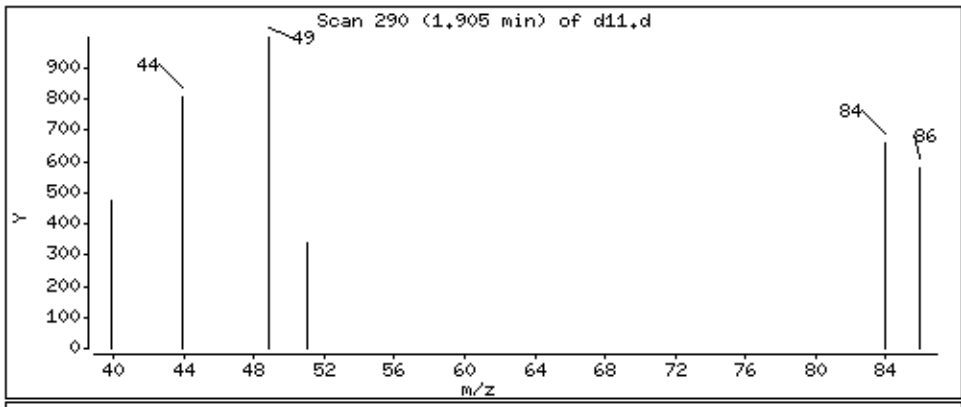
Operator: grm

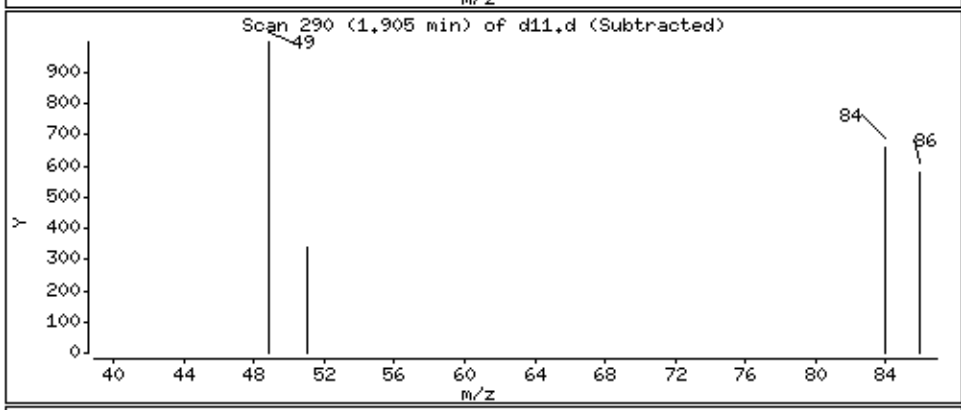
Column phase: DB-624

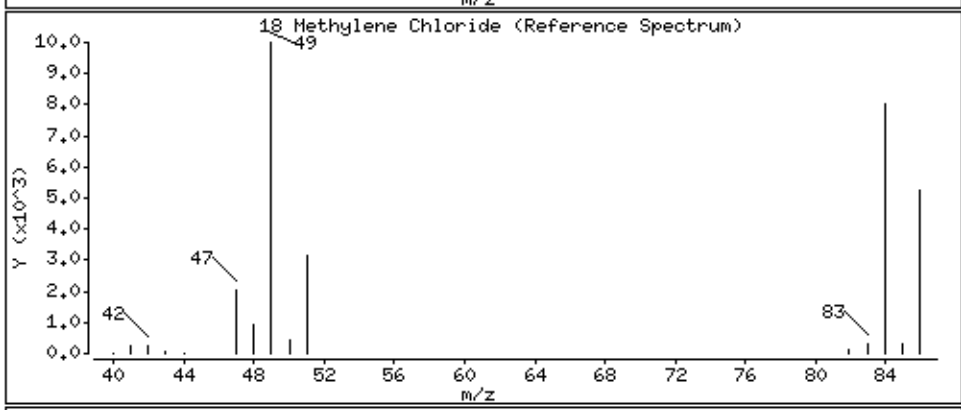
Column diameter: 0.18

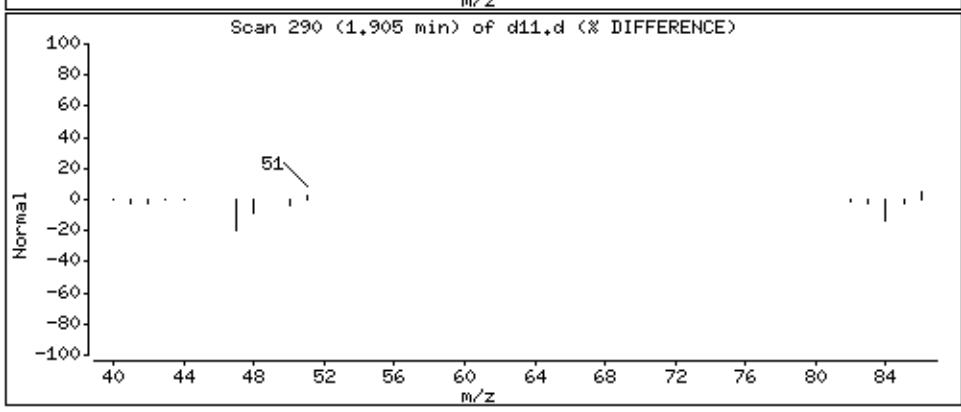
18 Methylene Chloride

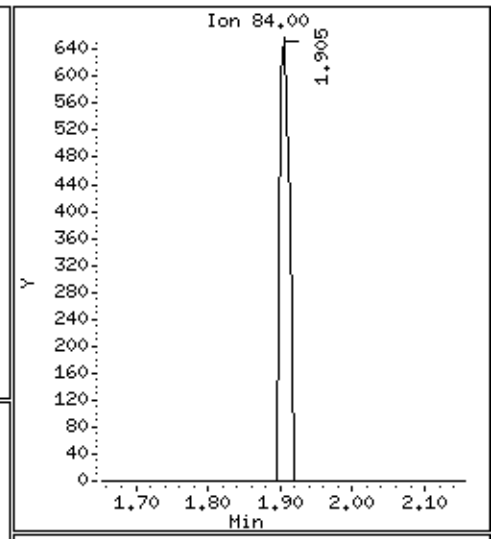
Concentration: 21.6 ppb

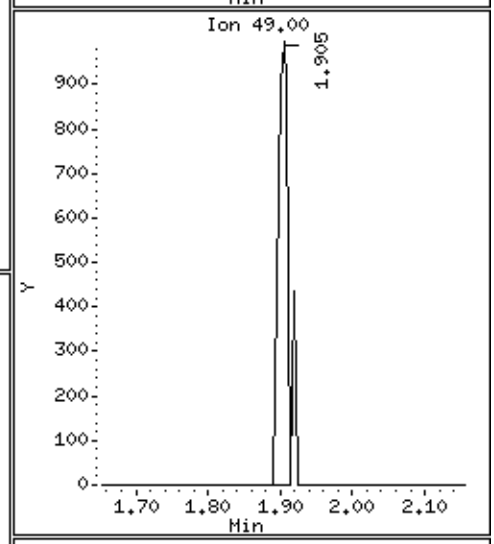


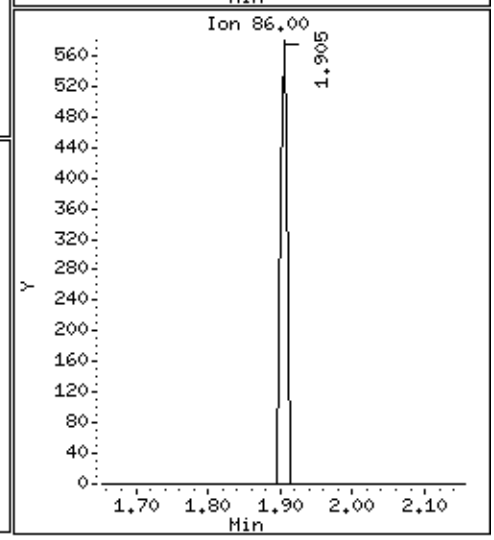












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

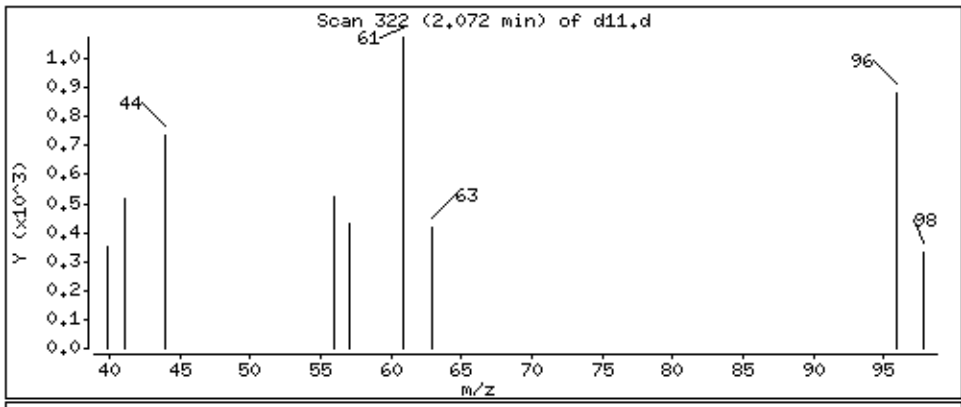
Operator: grm

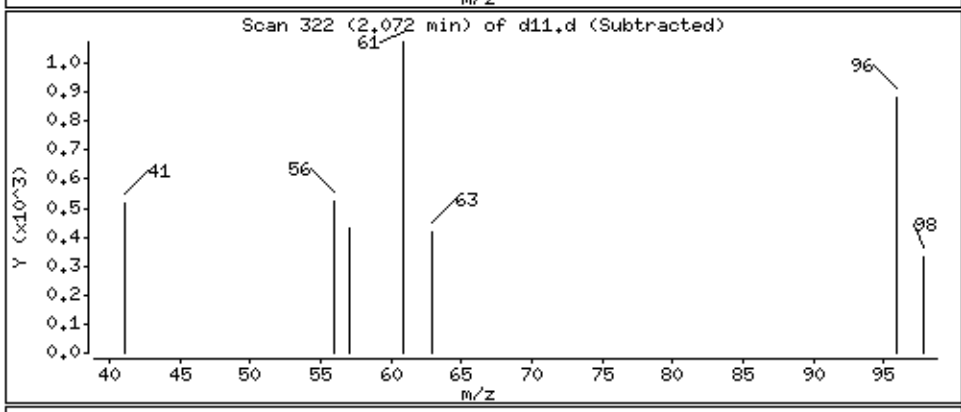
Column phase: DB-624

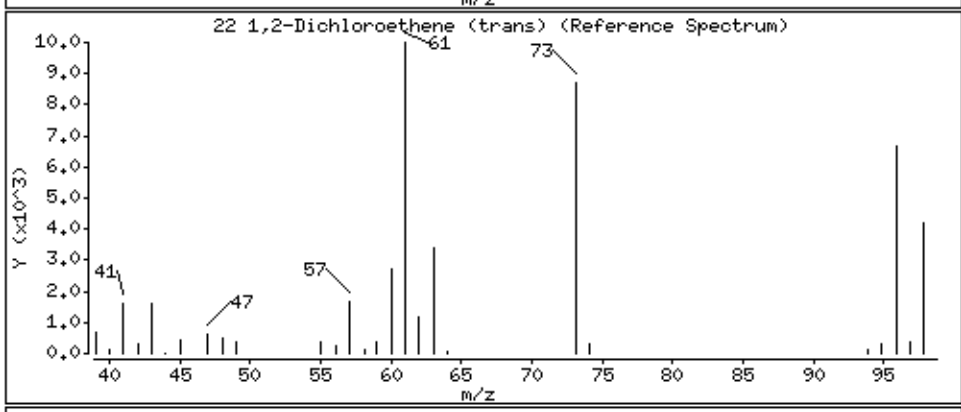
Column diameter: 0.18

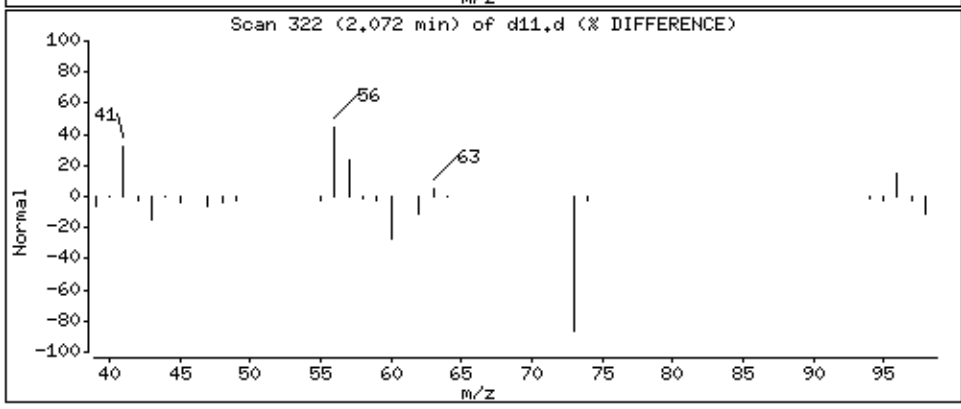
22 1,2-Dichloroethene (trans)

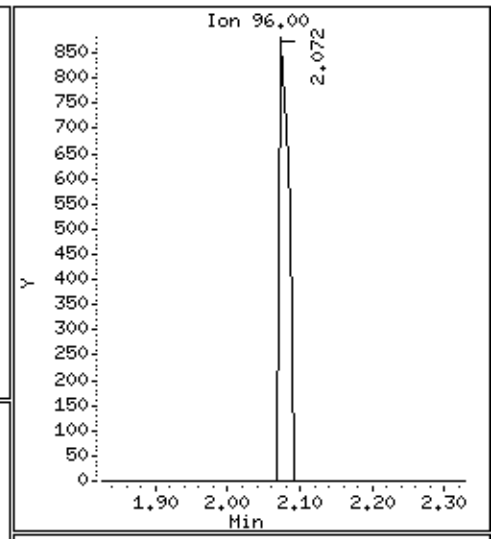
Concentration: 31.0 ppb

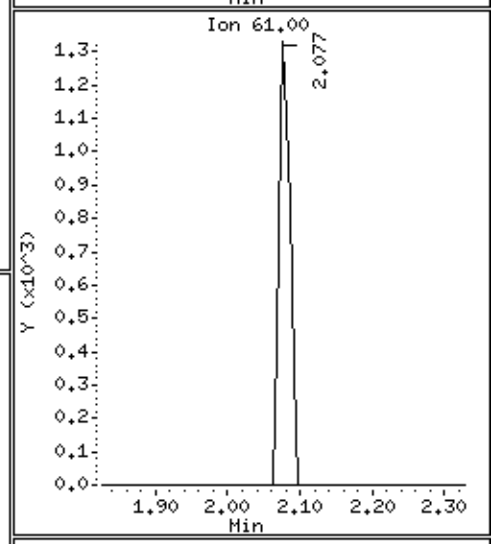


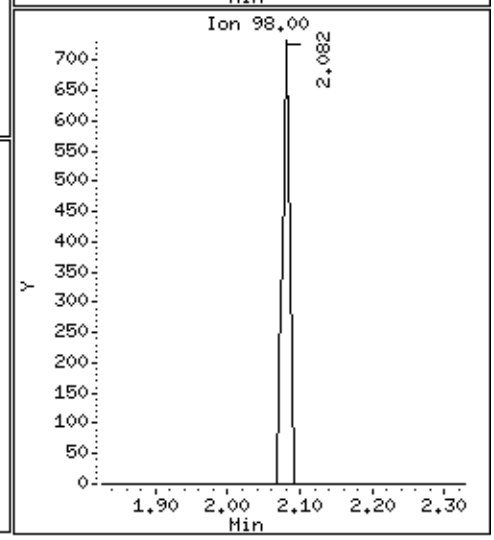












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

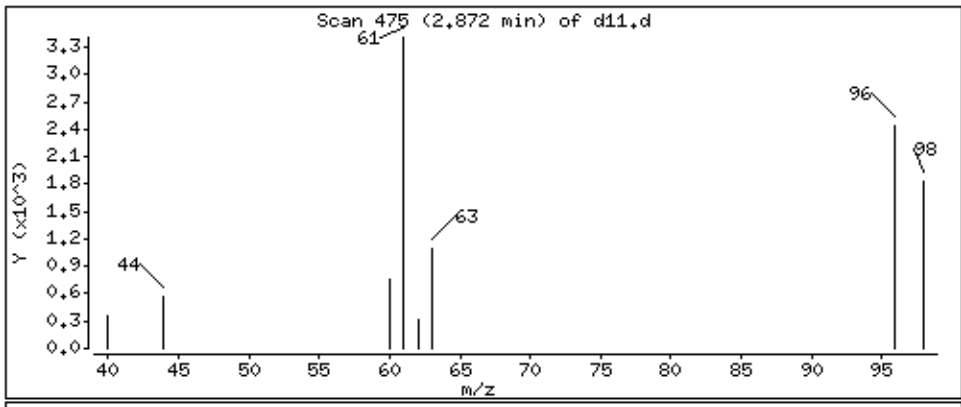
Operator: grm

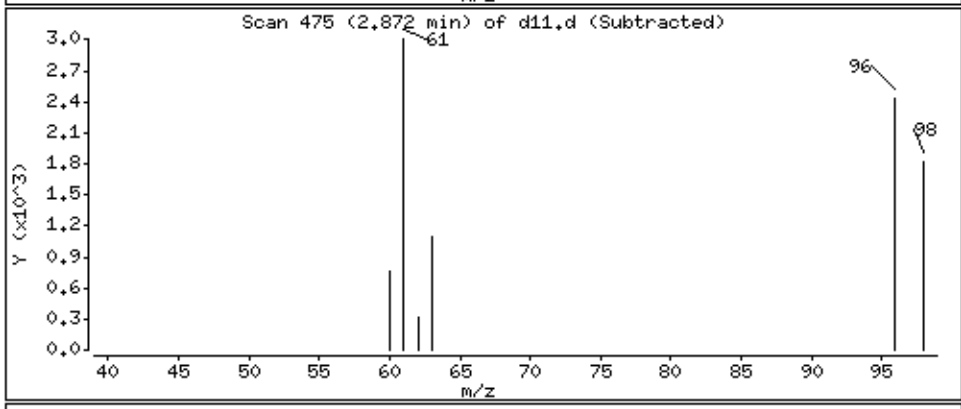
Column phase: DB-624

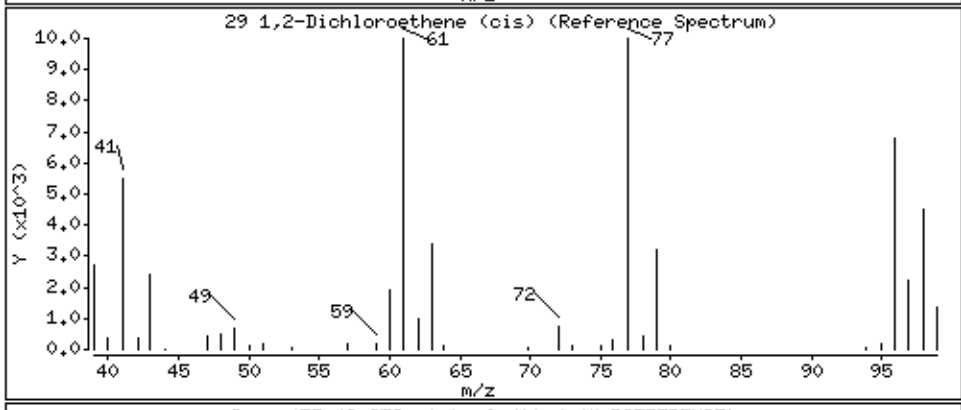
Column diameter: 0.18

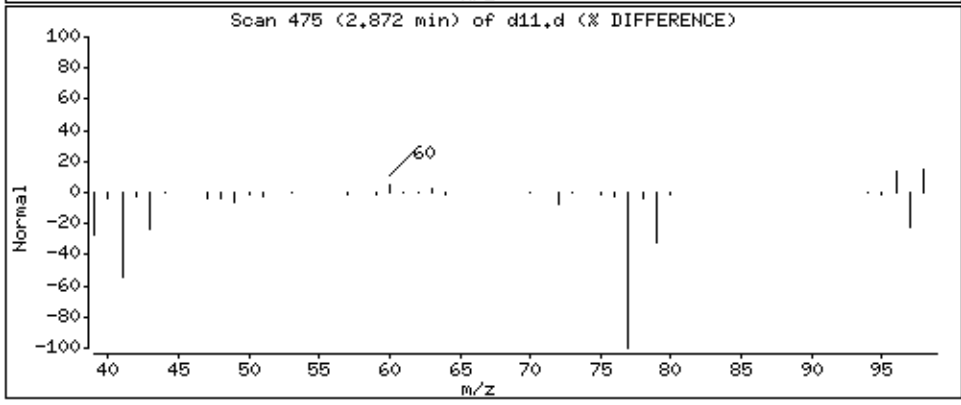
29 1,2-Dichloroethene (cis)

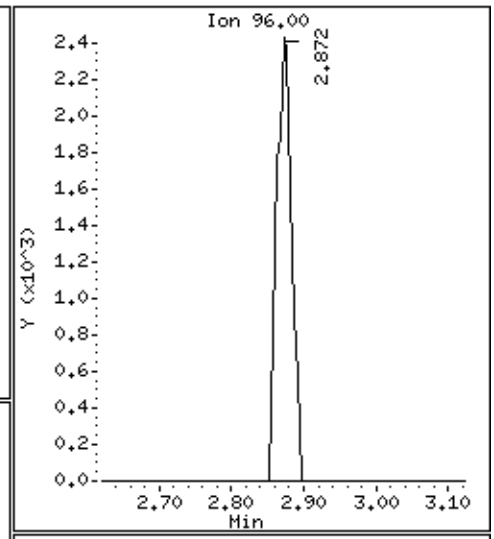
Concentration: 125 ppb

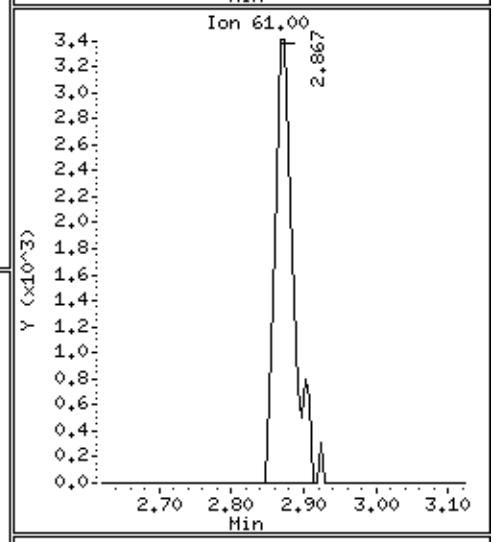


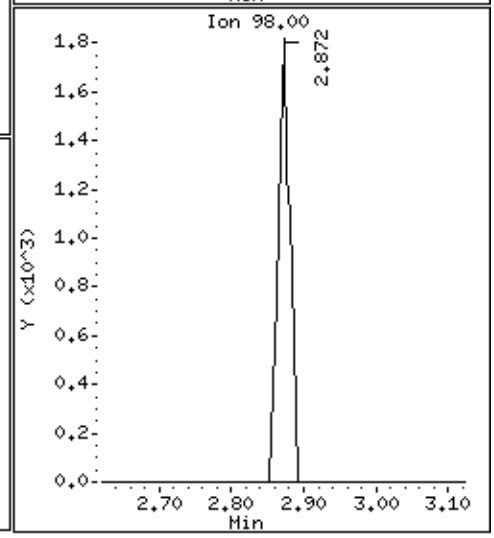












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

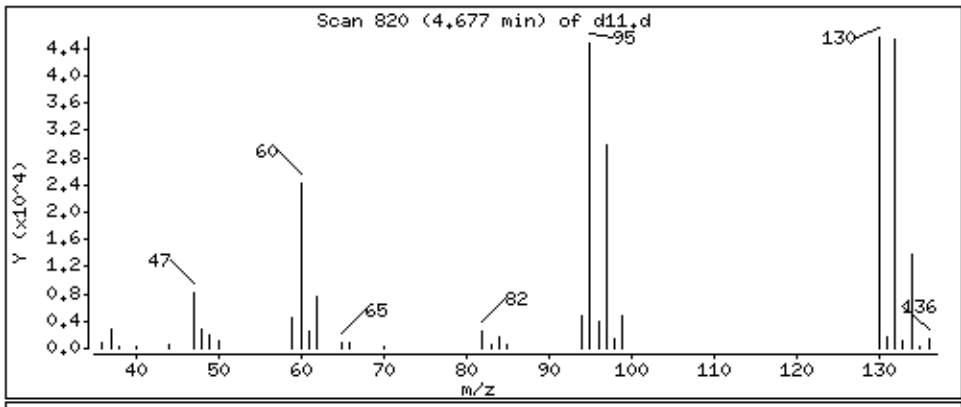
Operator: grm

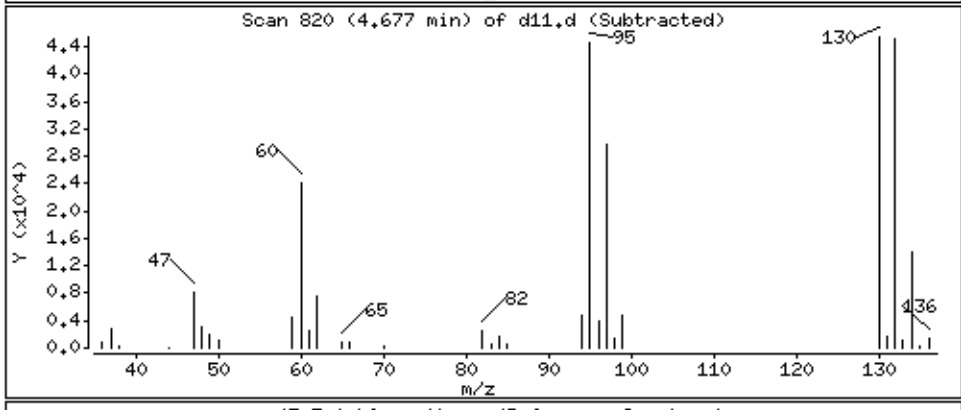
Column phase: DB-624

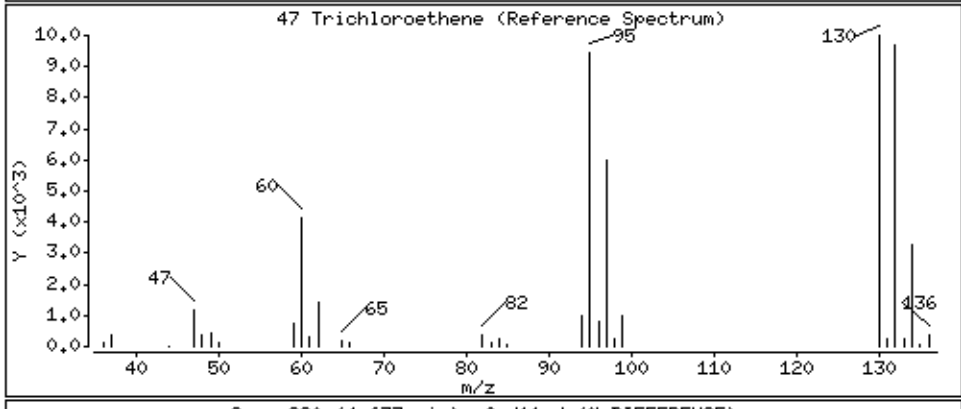
Column diameter: 0.18

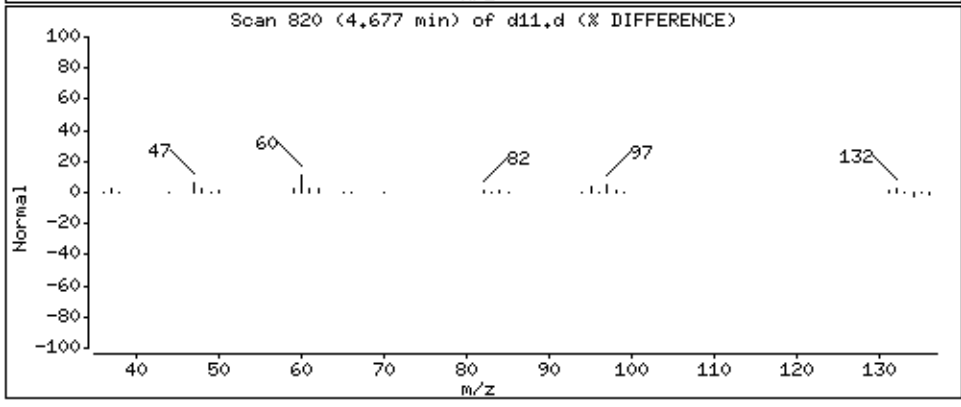
47 Trichloroethene

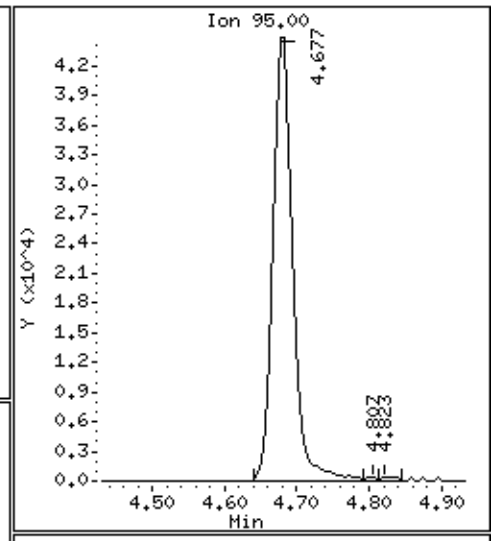
Concentration: 3030 ppb

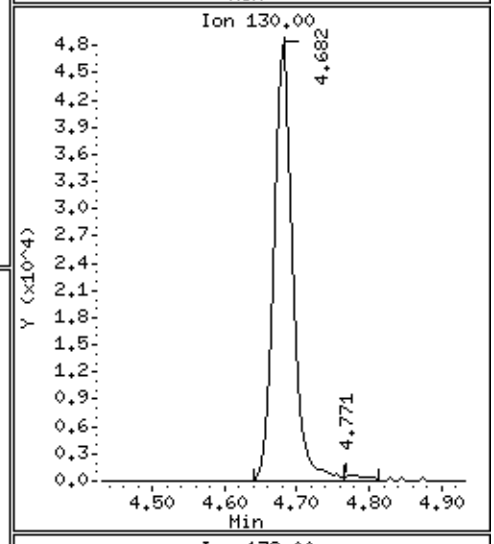


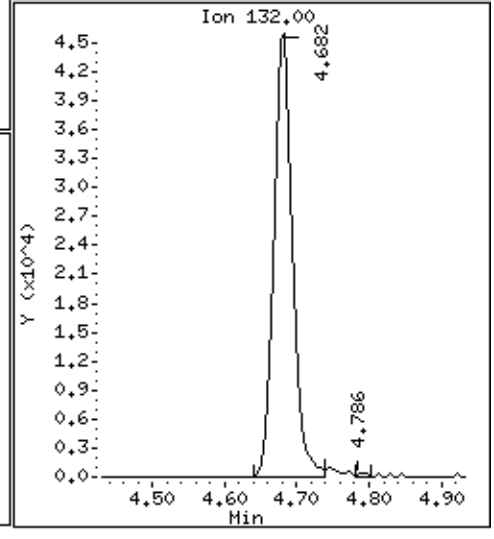












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

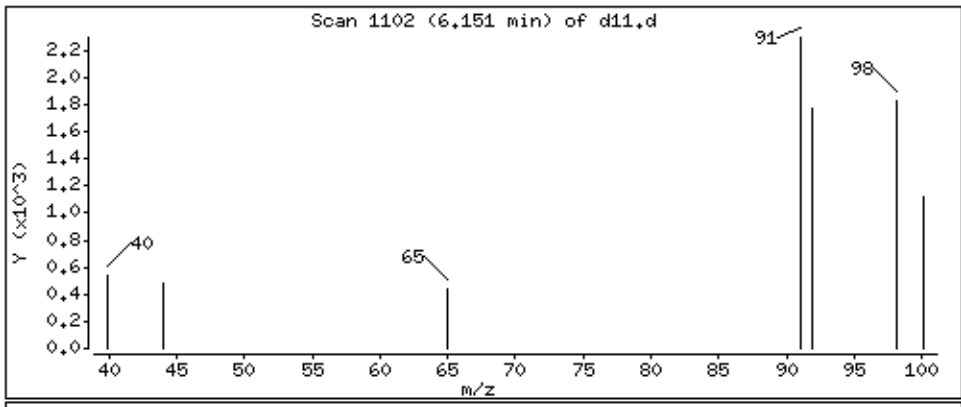
Operator: grm

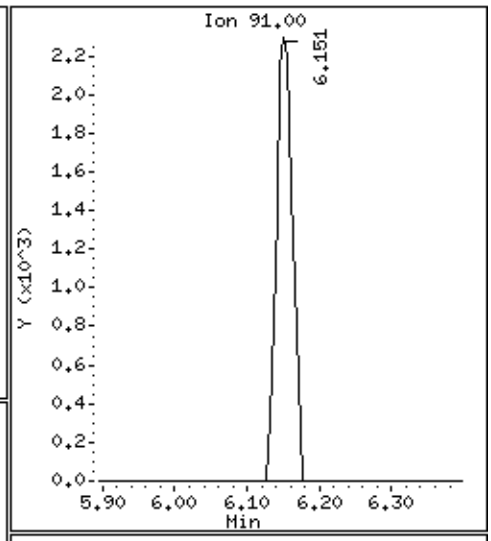
Column phase: DB-624

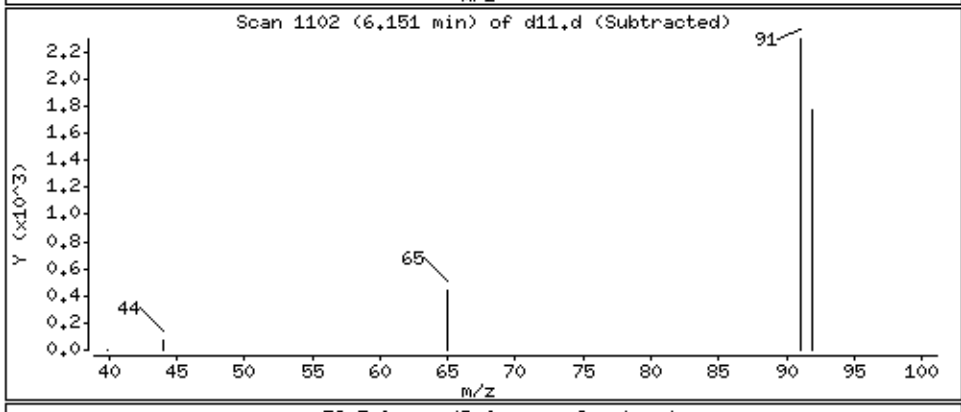
Column diameter: 0.18

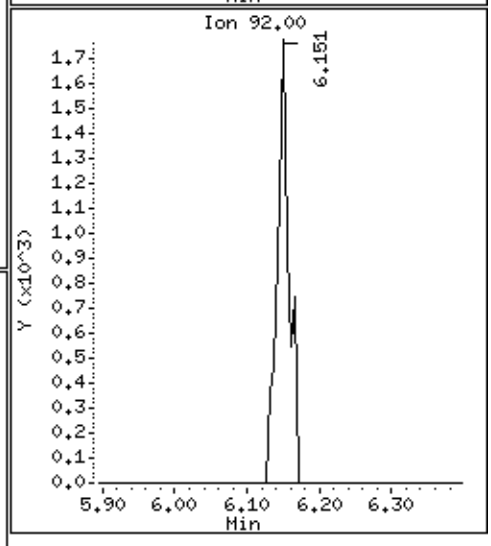
58 Toluene

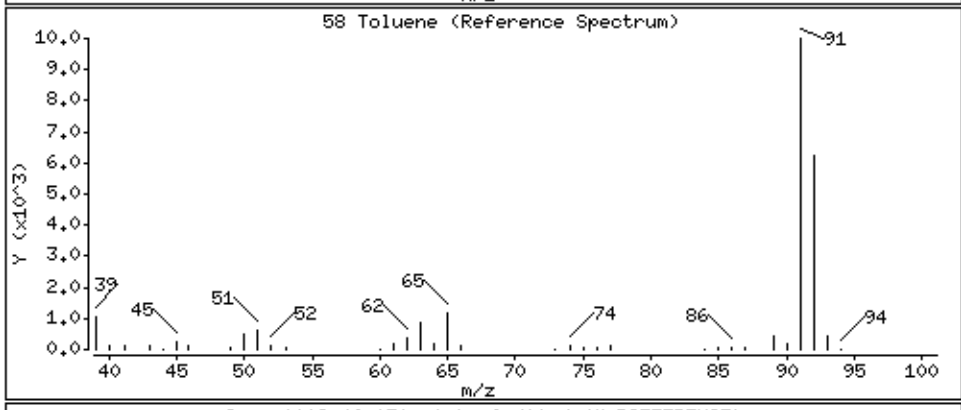
Concentration: 28.3 ppb

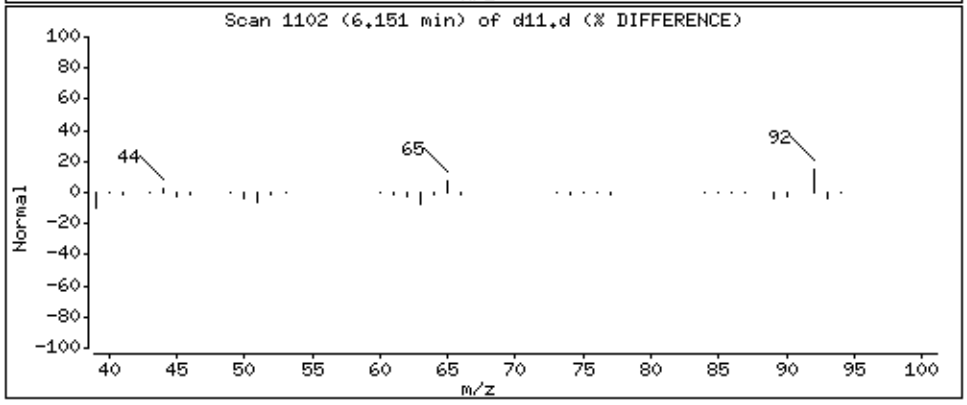












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

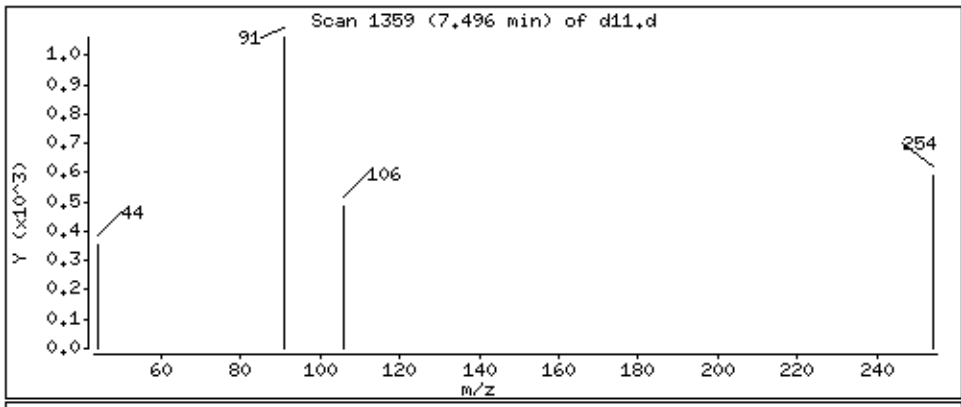
Operator: grm

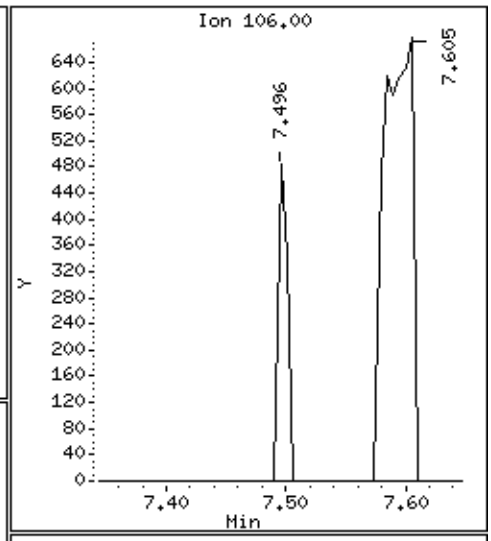
Column phase: DB-624

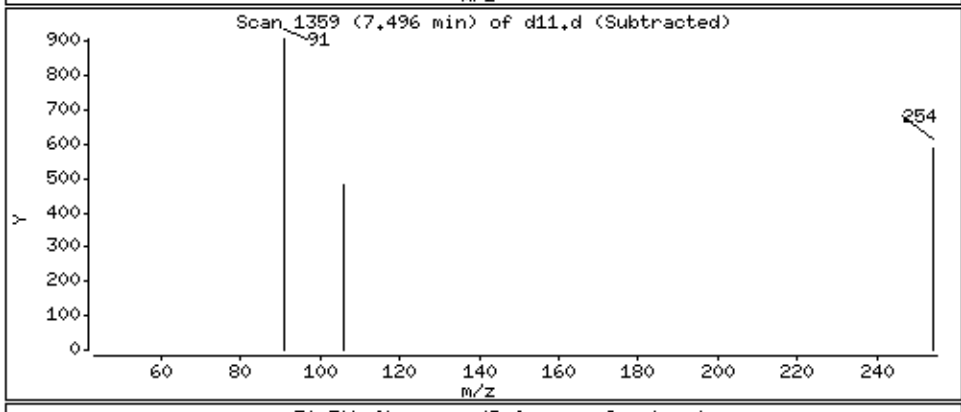
Column diameter: 0.18

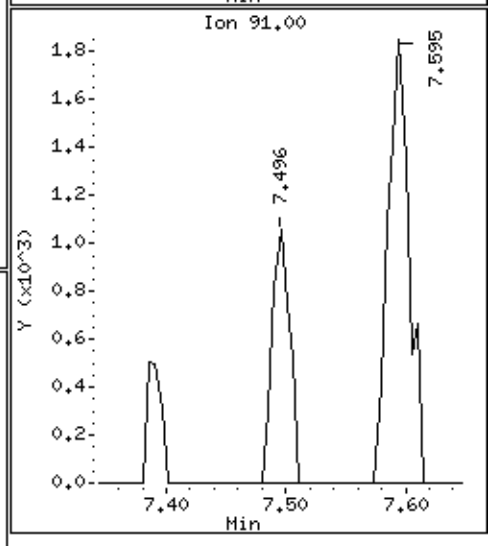
70 Ethylbenzene

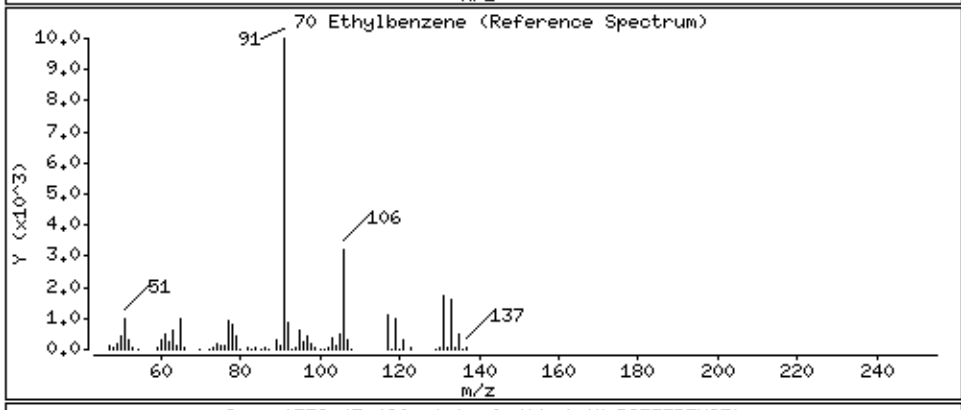
Concentration: 5.39 ppb

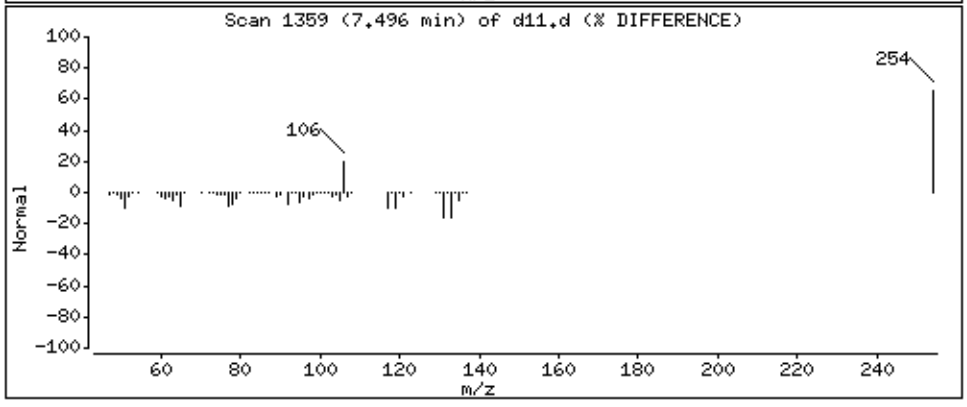












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

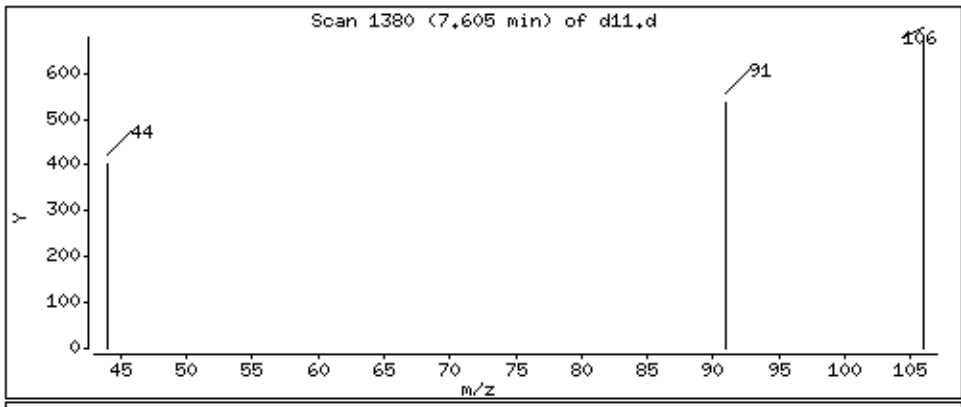
Operator: grm

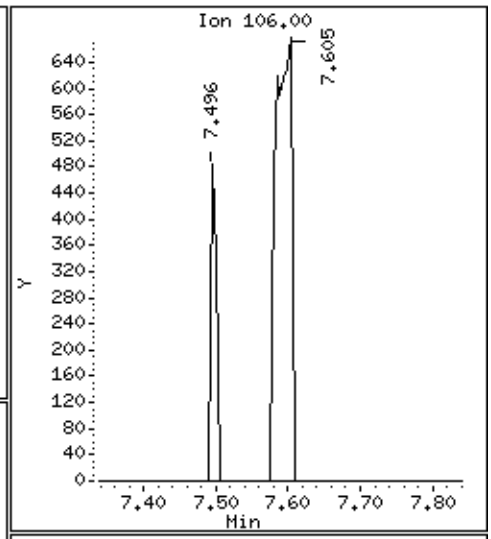
Column phase: DB-624

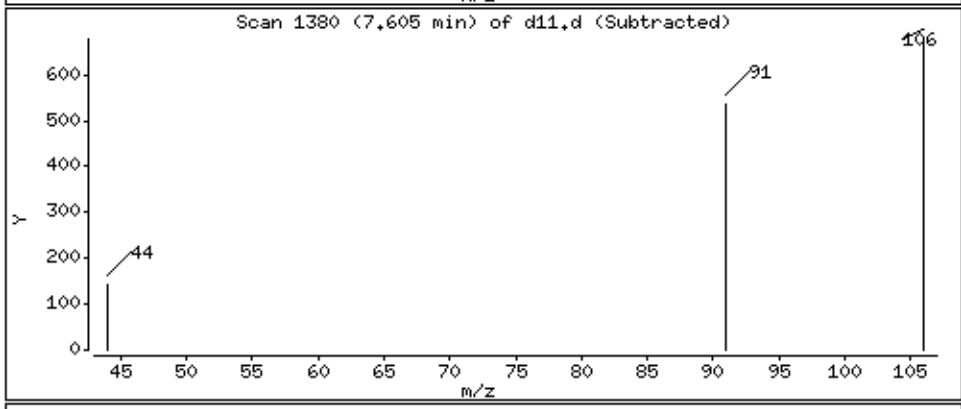
Column diameter: 0.18

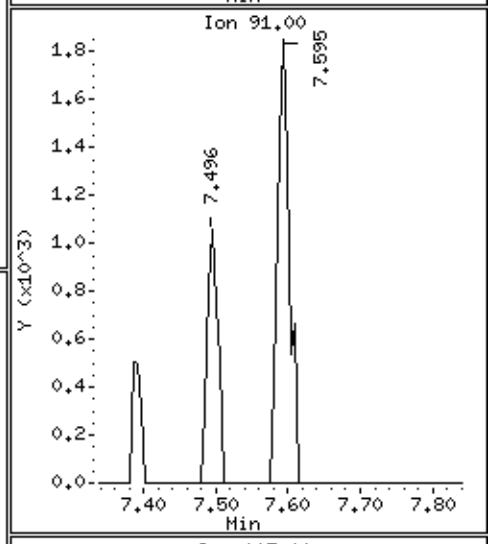
71 m&p-Xylene

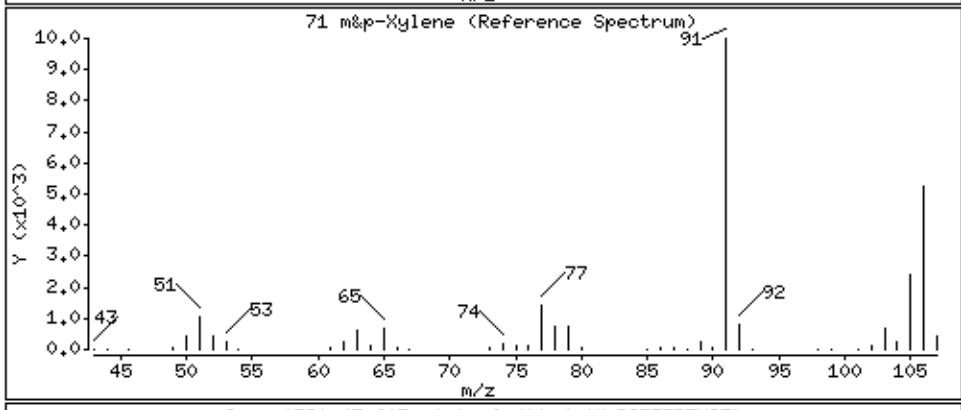
Concentration: 18.9 ppb

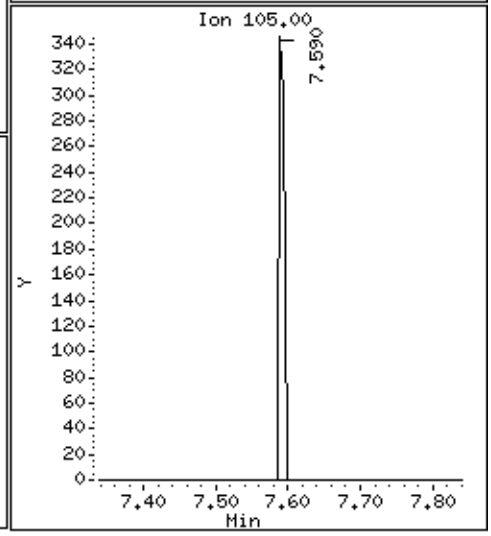


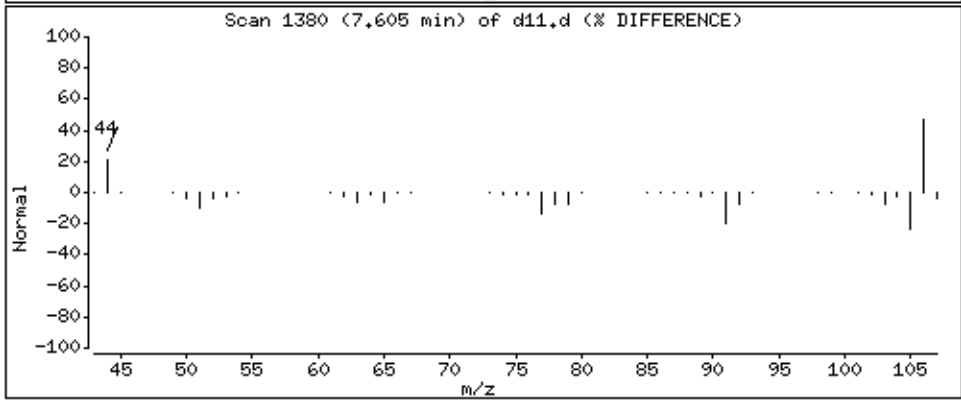












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

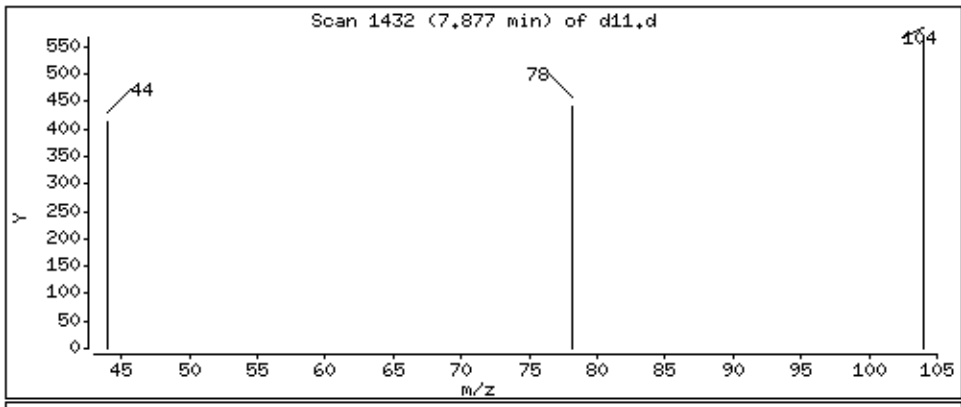
Operator: grm

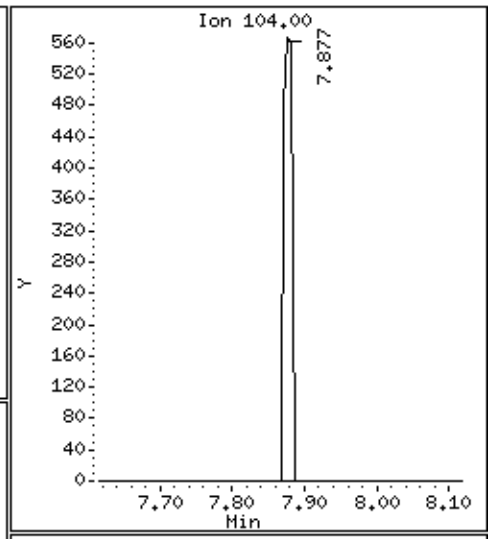
Column phase: DB-624

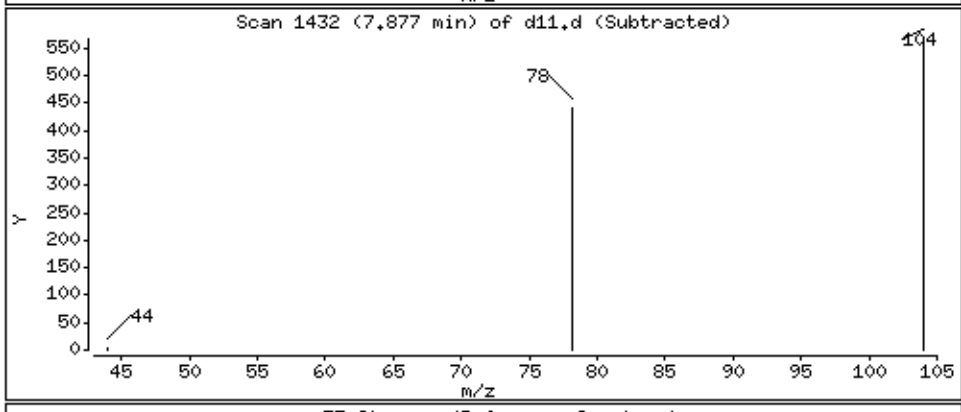
Column diameter: 0.18

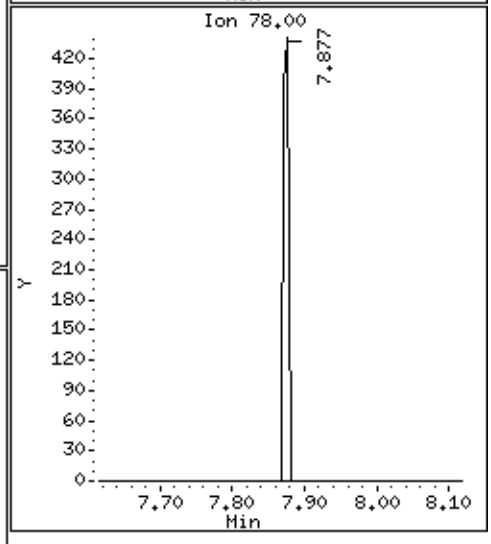
73 Styrene

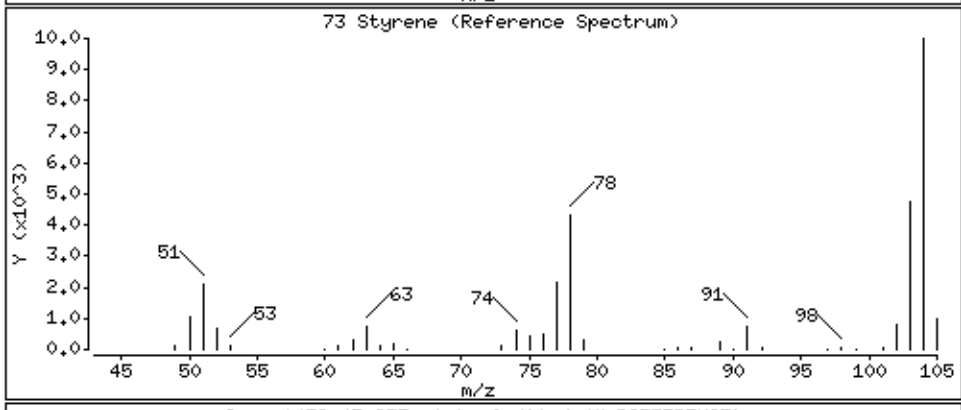
Concentration: 5.18 ppb

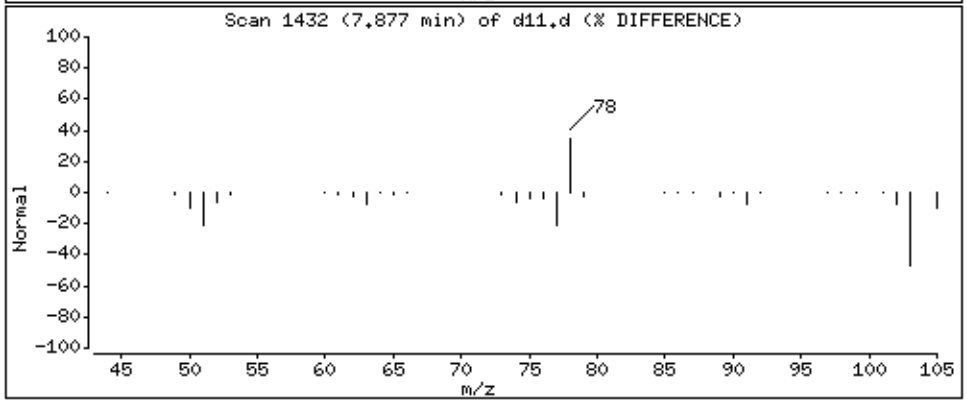












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

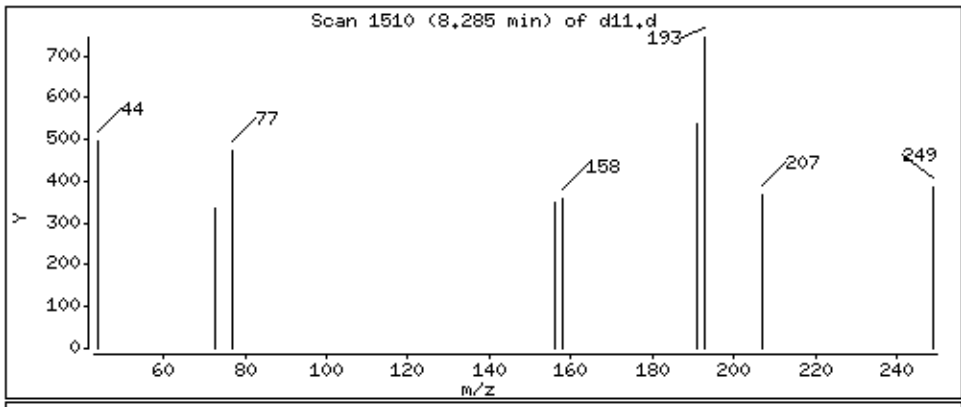
Operator: grm

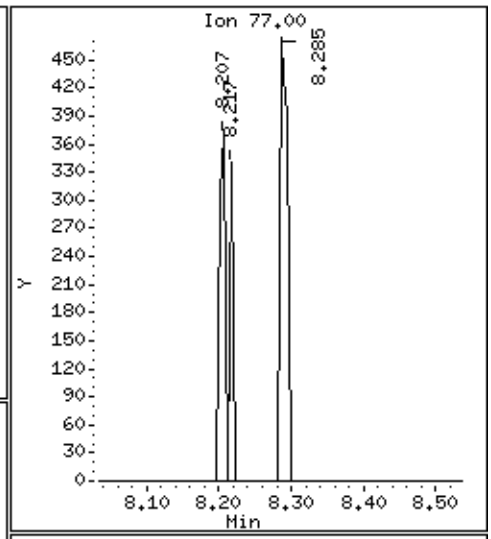
Column phase: DB-624

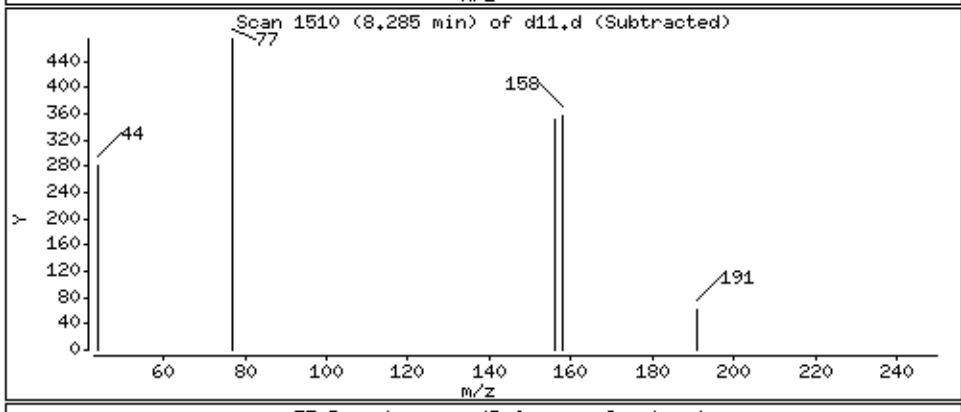
Column diameter: 0.18

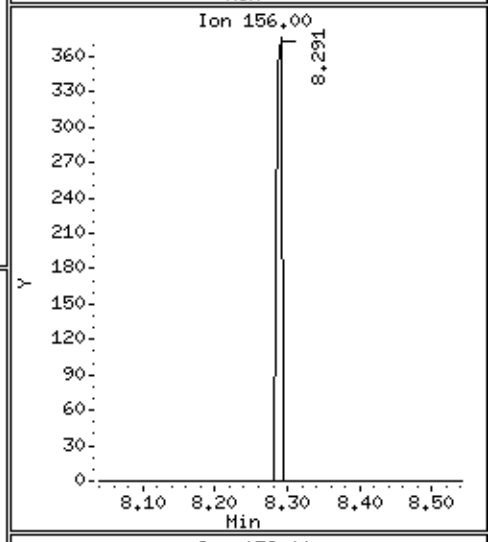
77 Bromobenzene

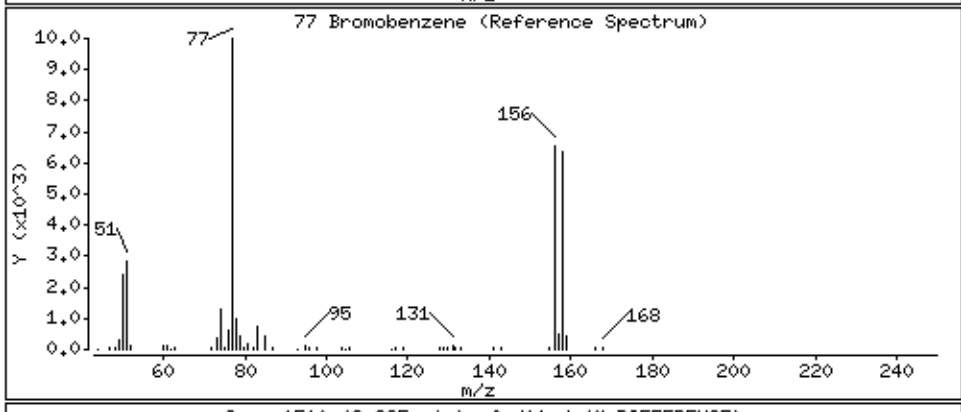
Concentration: 7.35 ppb

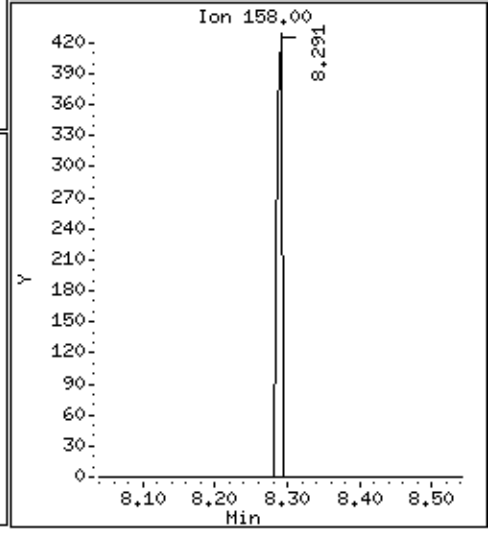


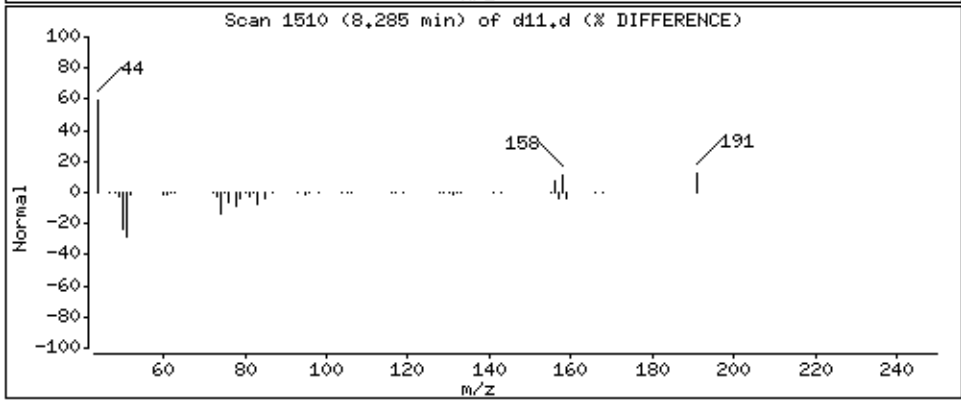












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

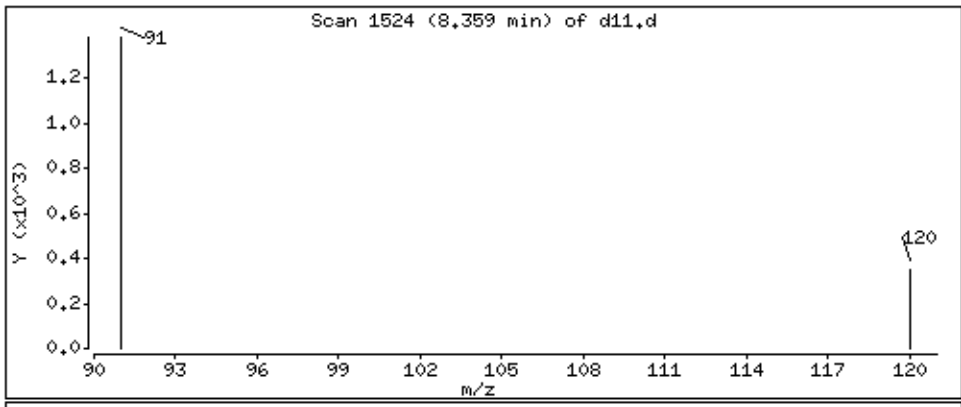
Operator: grm

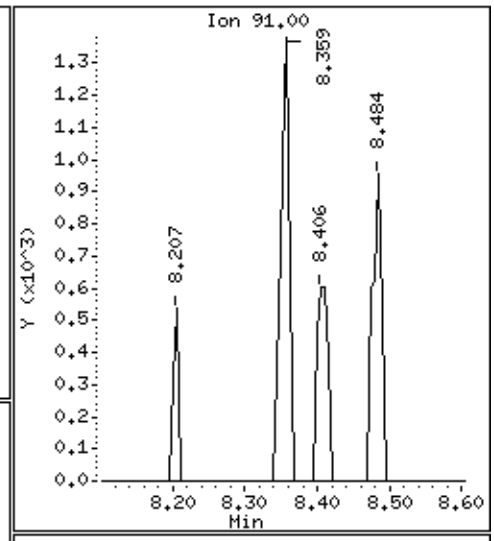
Column phase: DB-624

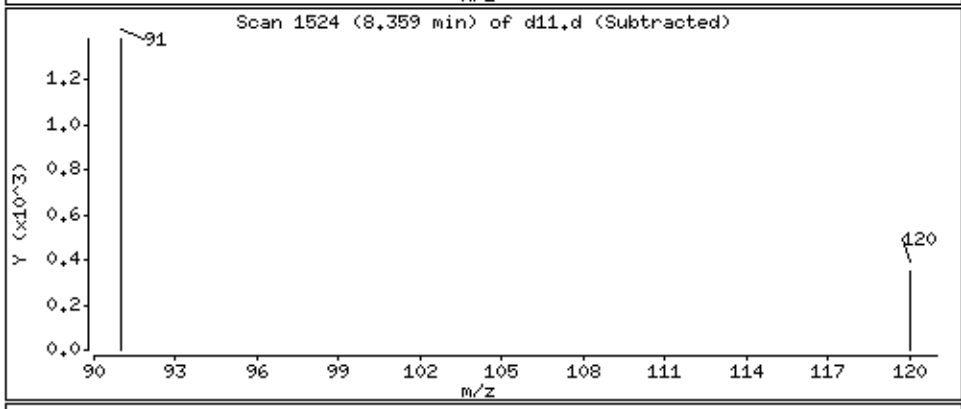
Column diameter: 0.18

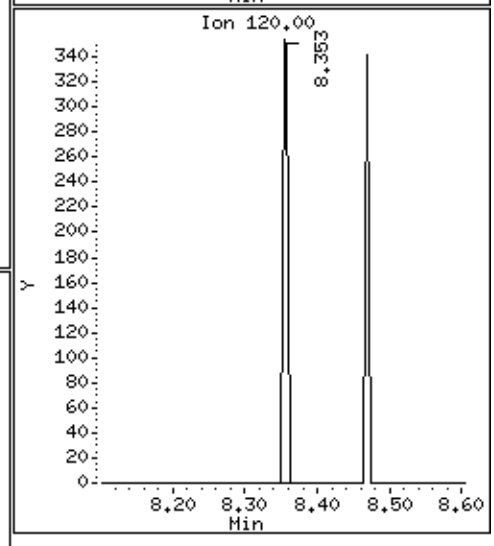
82 n-Propylbenzene

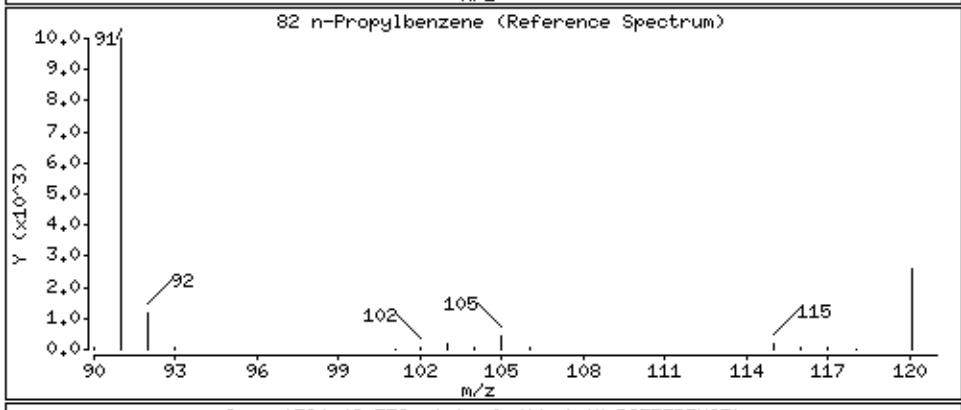
Concentration: 7.24 ppb

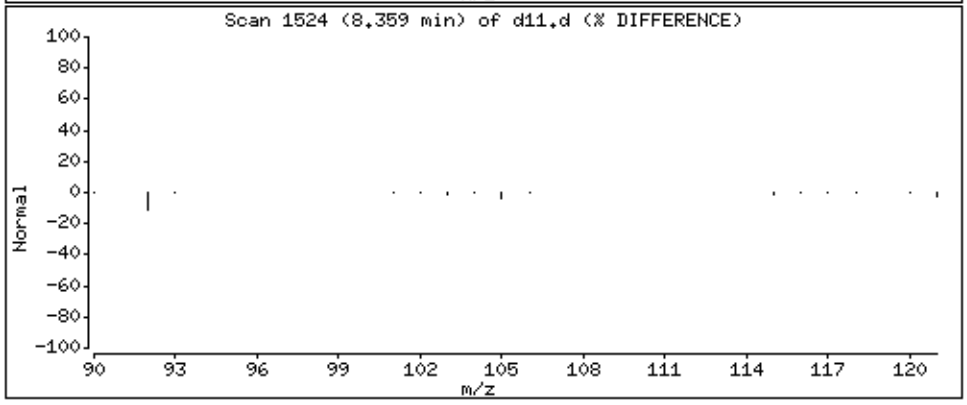












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

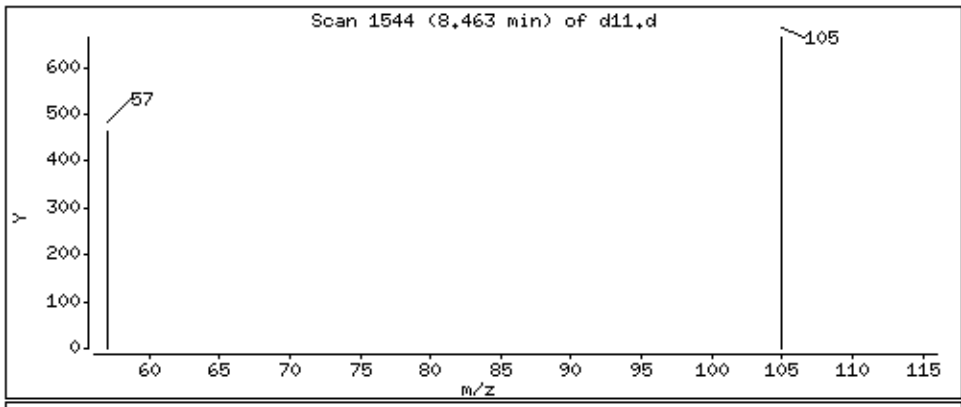
Operator: grm

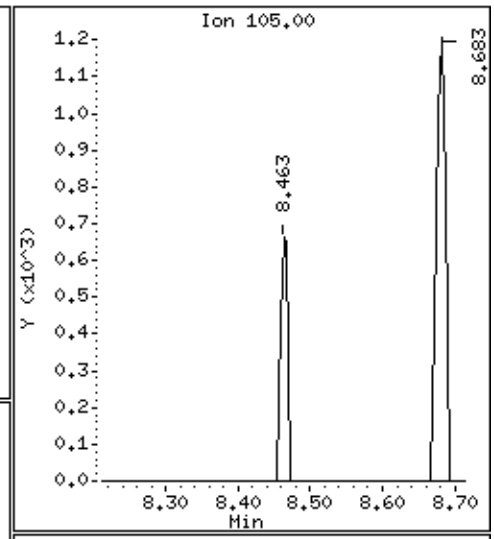
Column phase: DB-624

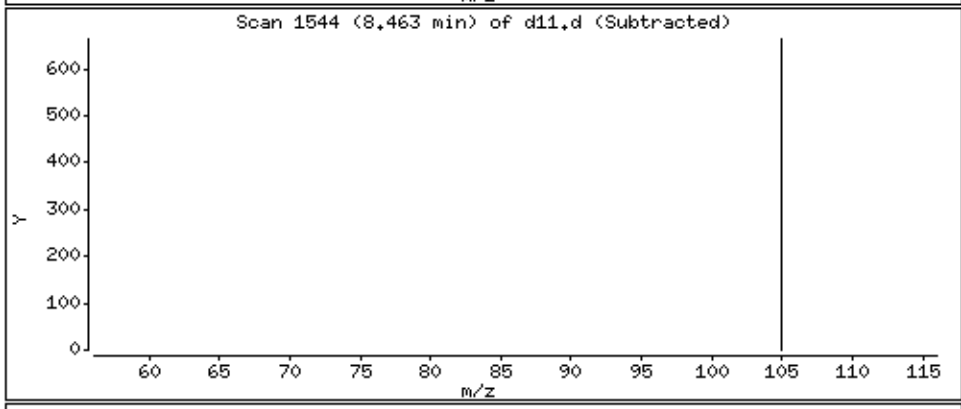
Column diameter: 0.18

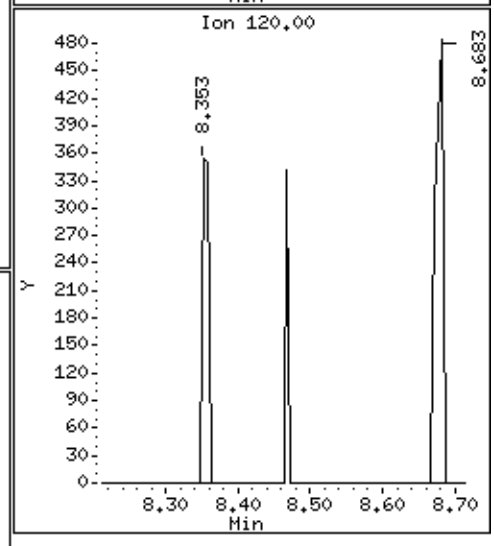
84 1,3,5-Trimethylbenzene

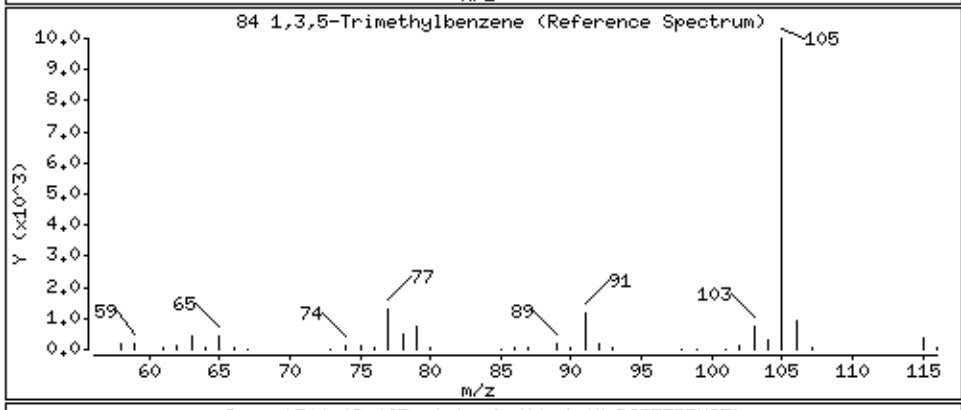
Concentration: 4.36 ppb

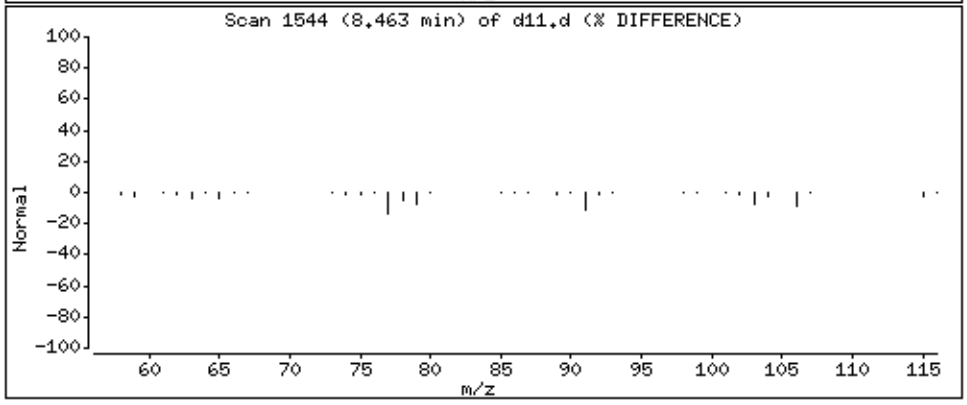












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

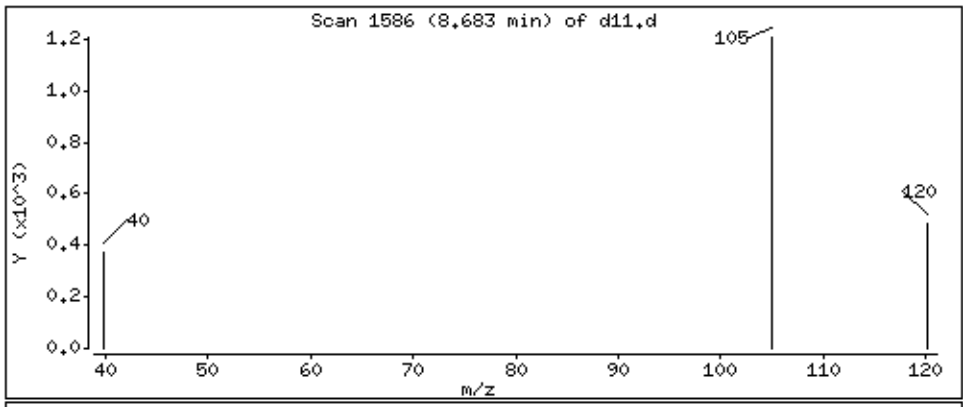
Operator: grm

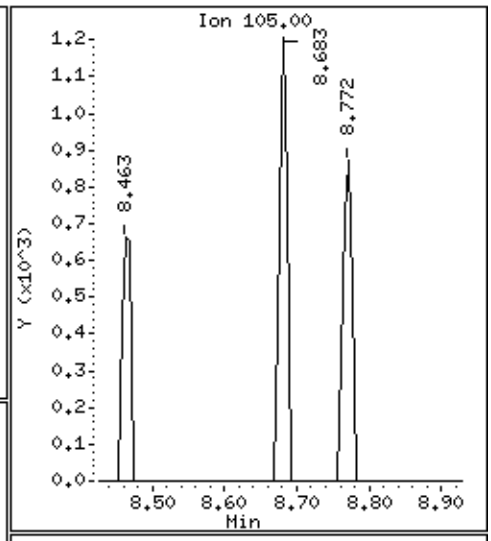
Column phase: DB-624

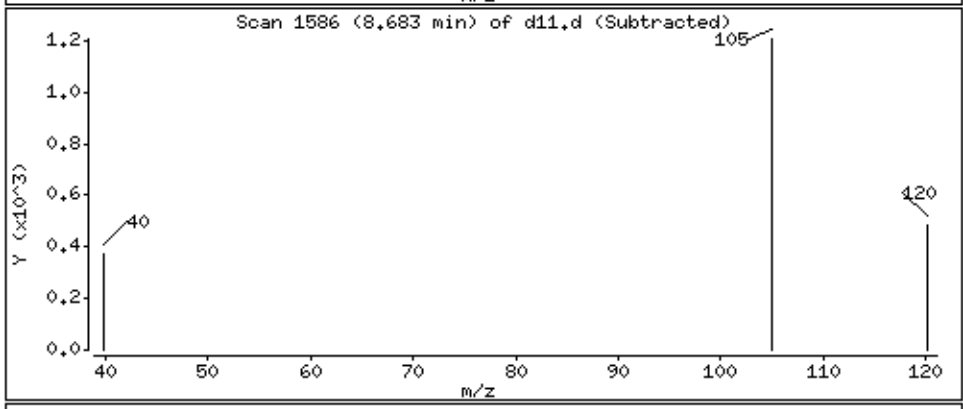
Column diameter: 0.18

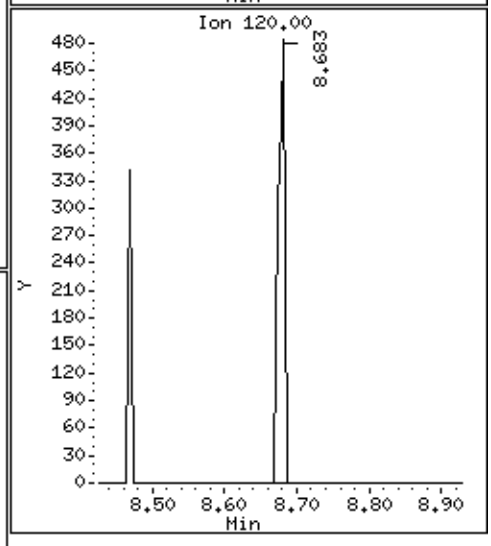
87 1,2,4-Trimethylbenzene

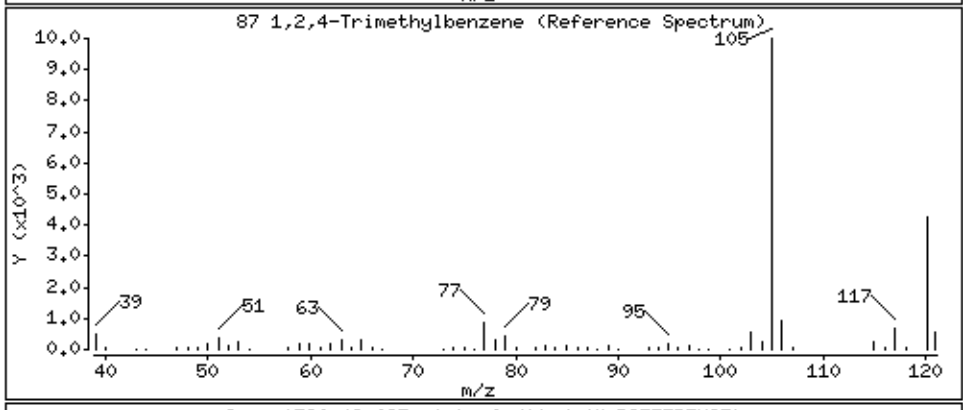
Concentration: 8.16 ppb

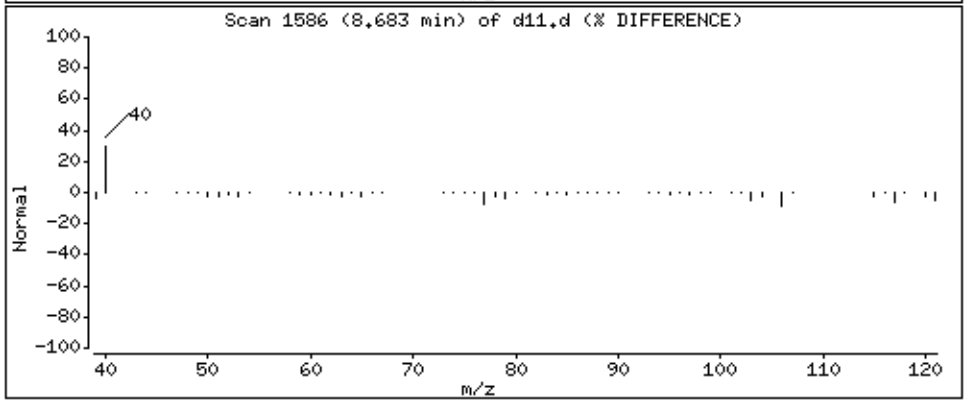












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

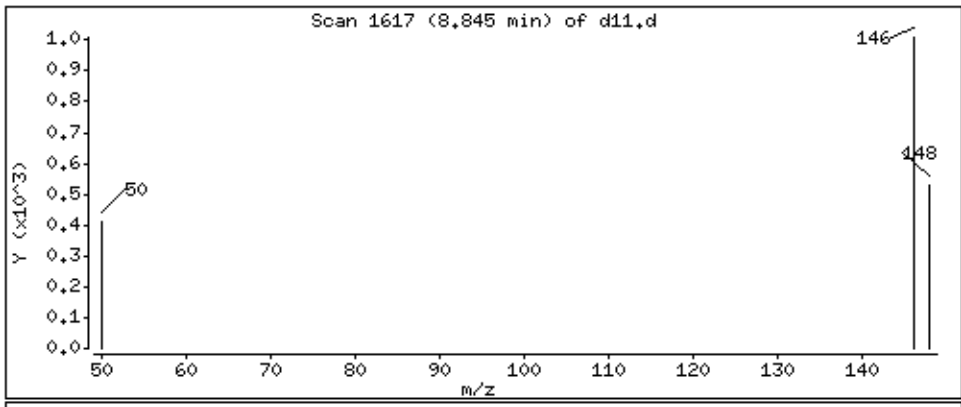
Operator: grm

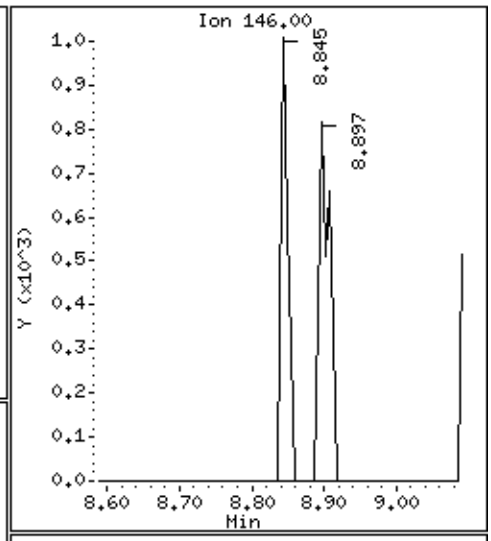
Column phase: DB-624

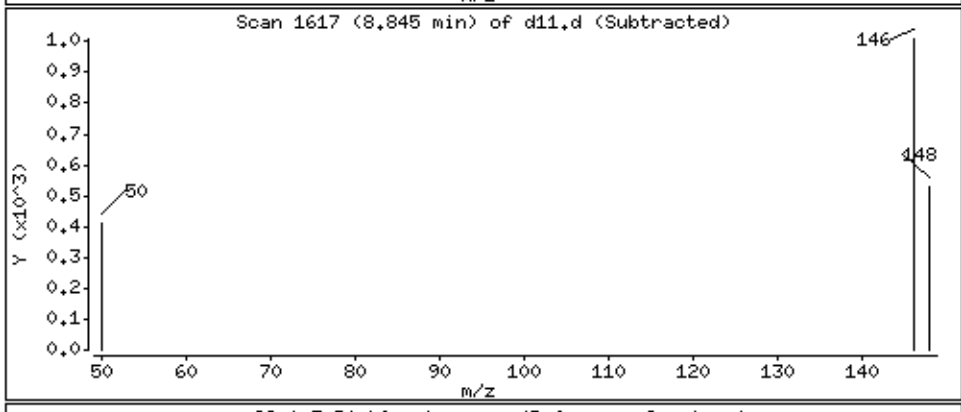
Column diameter: 0.18

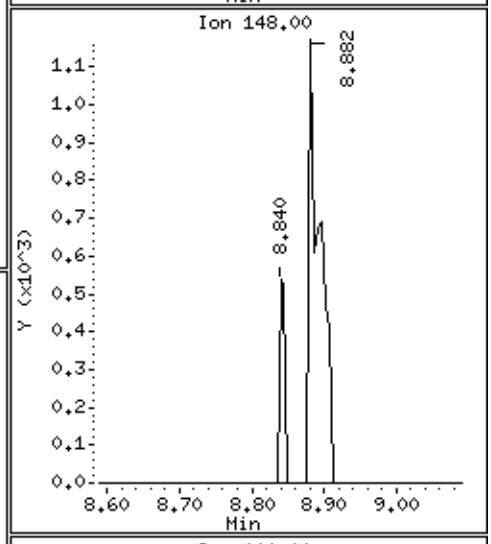
89 1,3-Dichlorobenzene

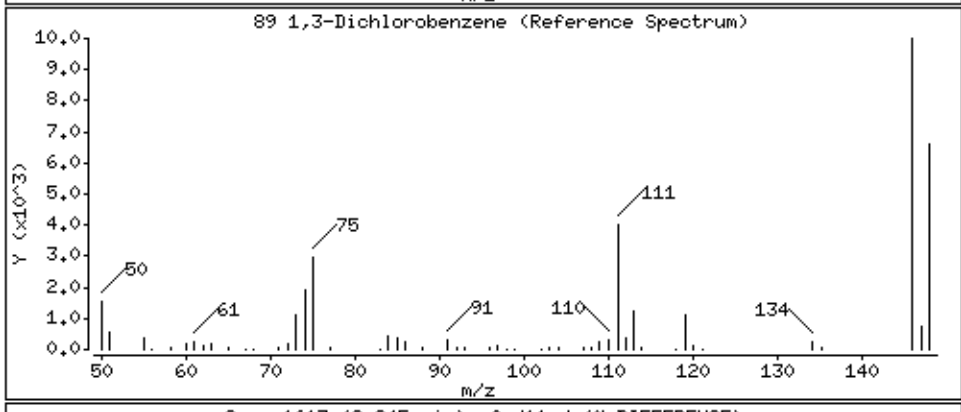
Concentration: 10.4 ppb

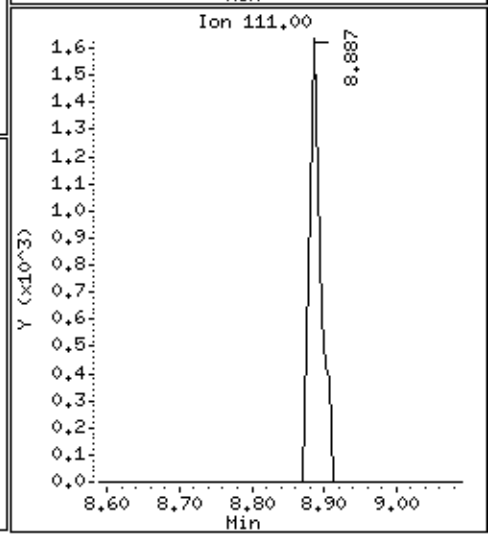


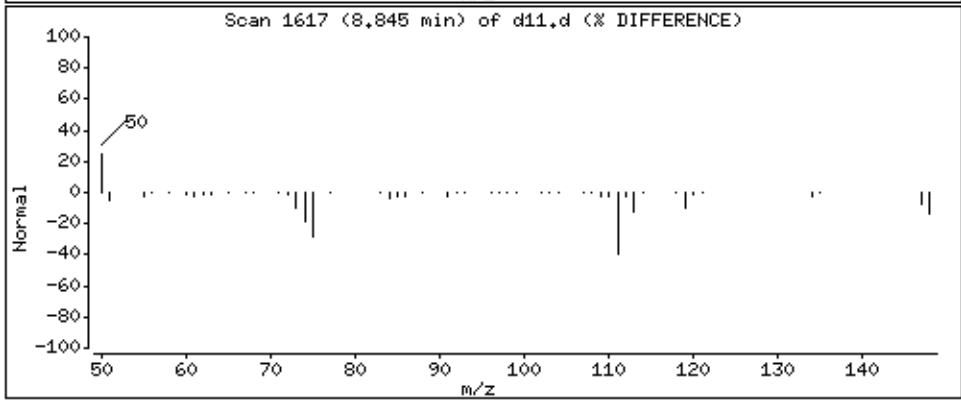












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

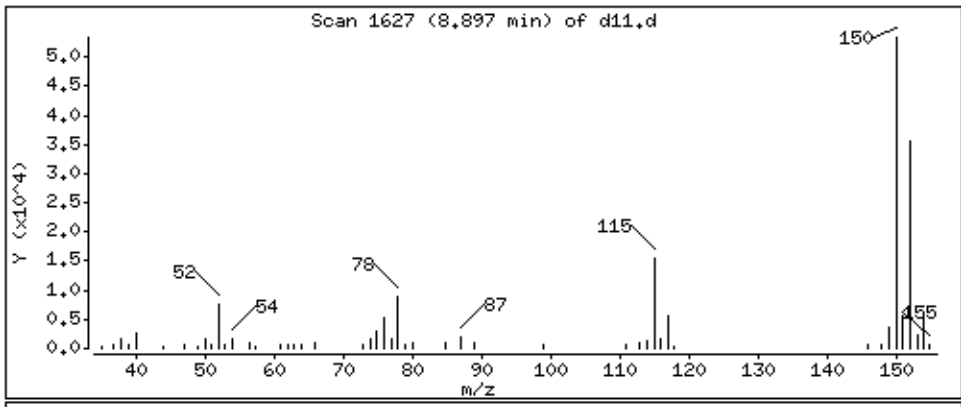
Operator: grm

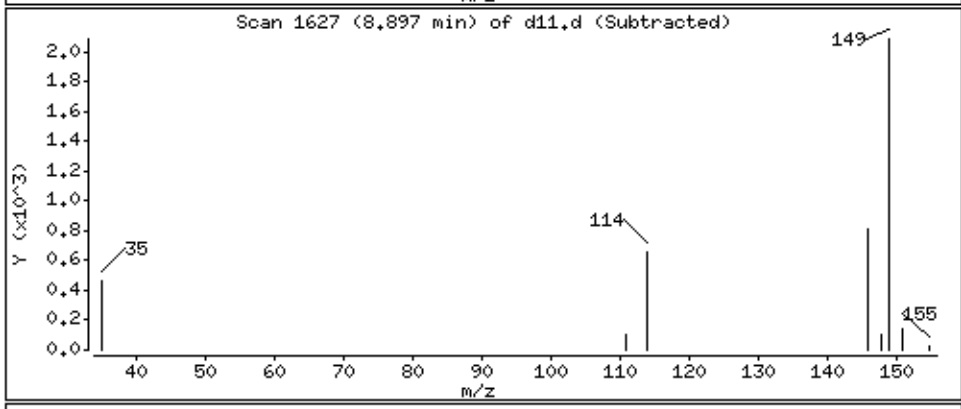
Column phase: DB-624

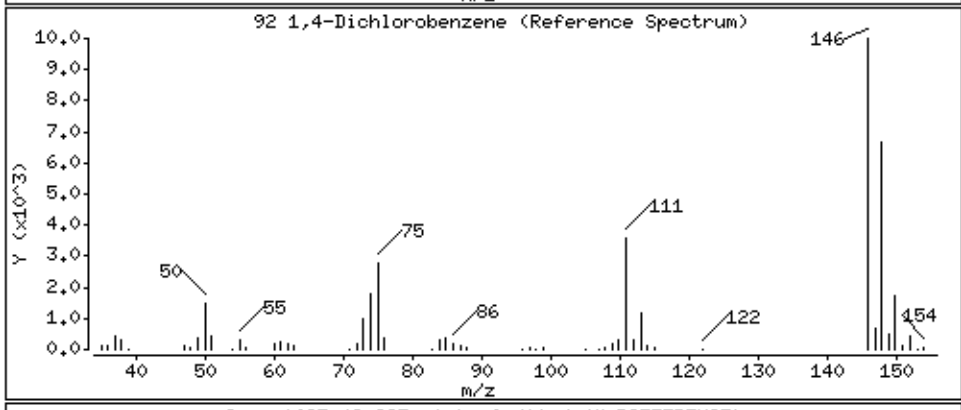
Column diameter: 0.18

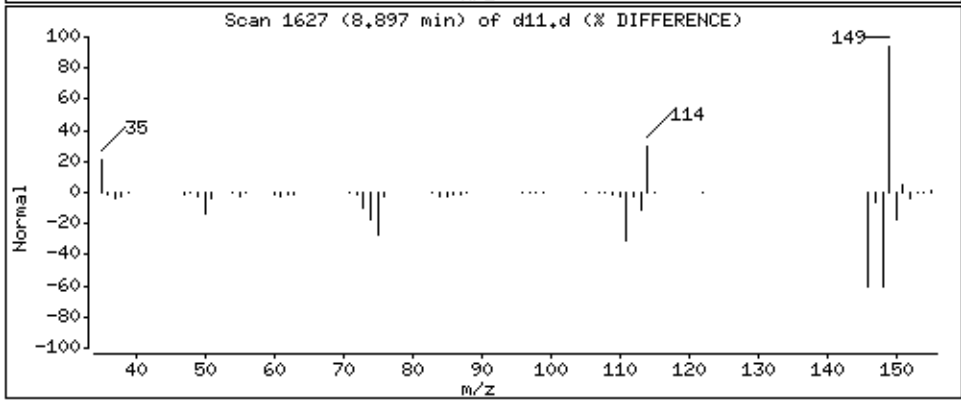
92 1,4-Dichlorobenzene

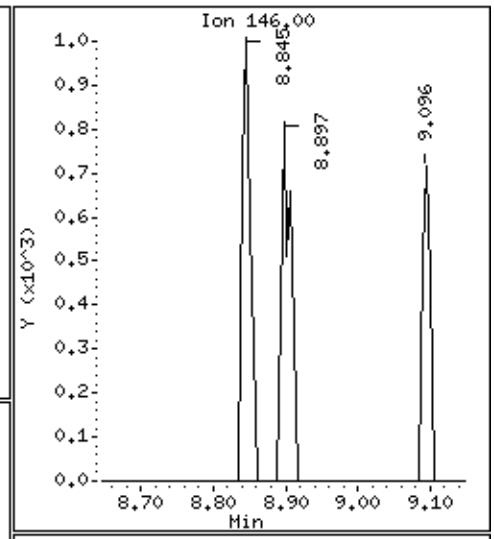
Concentration: 10.8 ppb

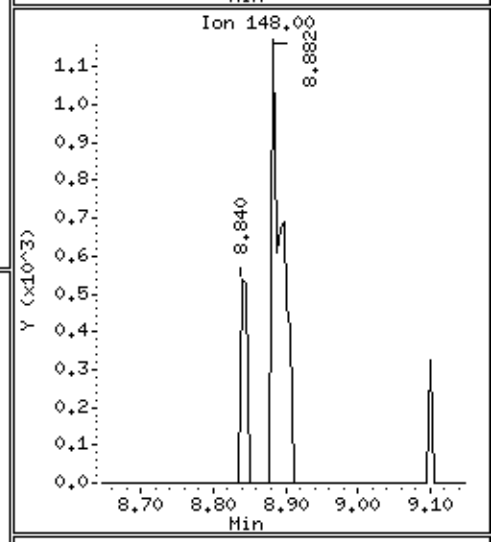


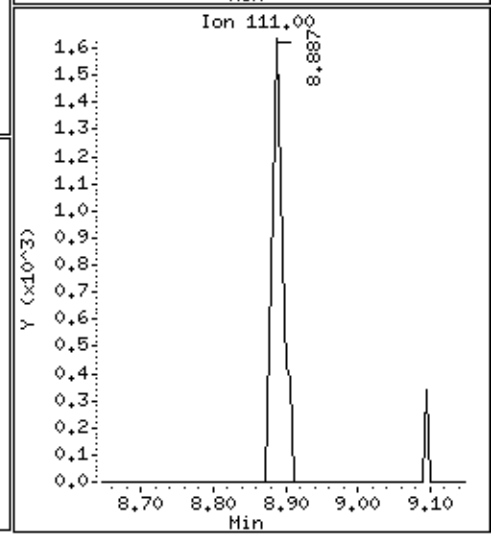












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

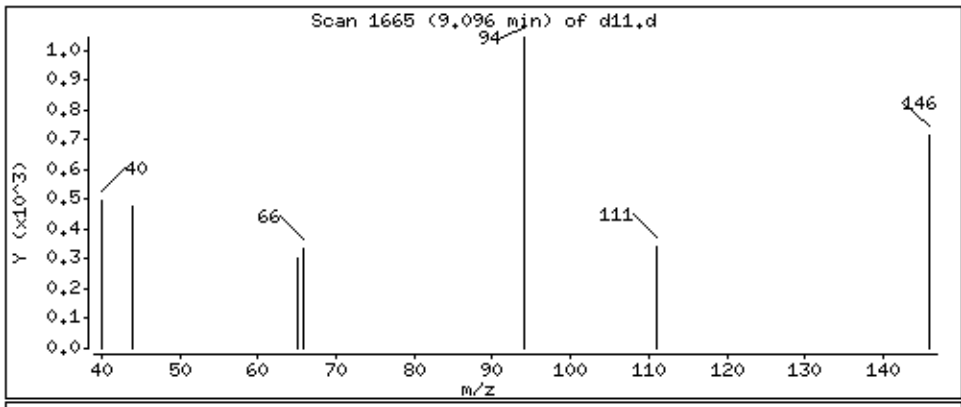
Operator: grm

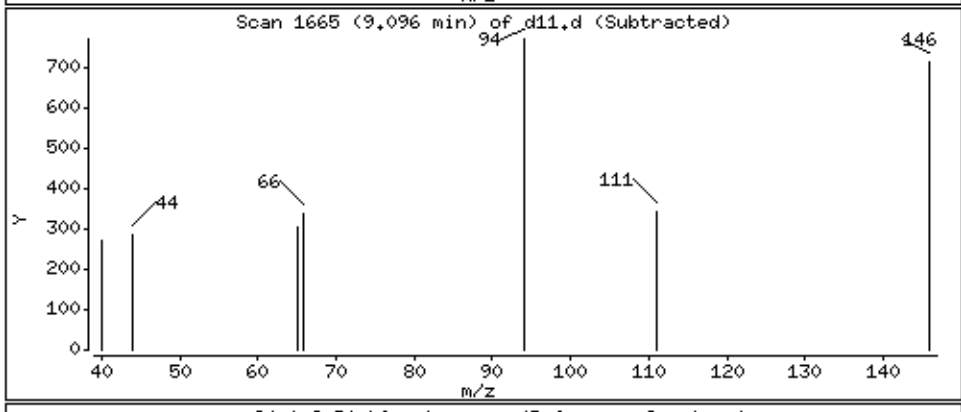
Column phase: DB-624

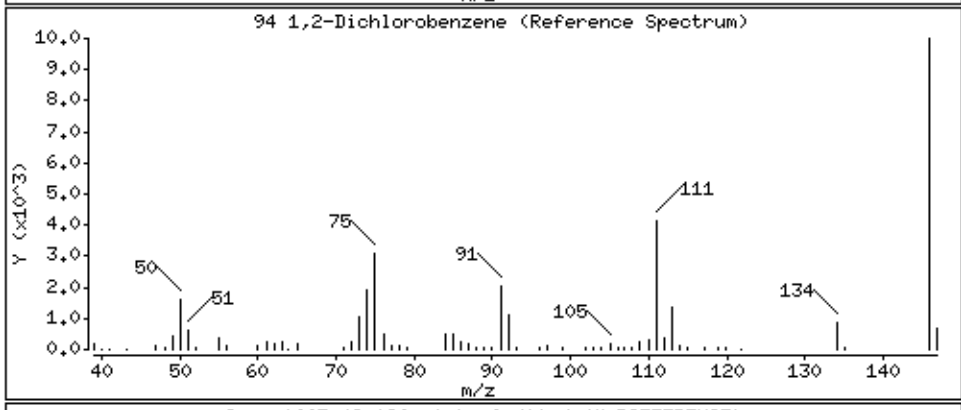
Column diameter: 0.18

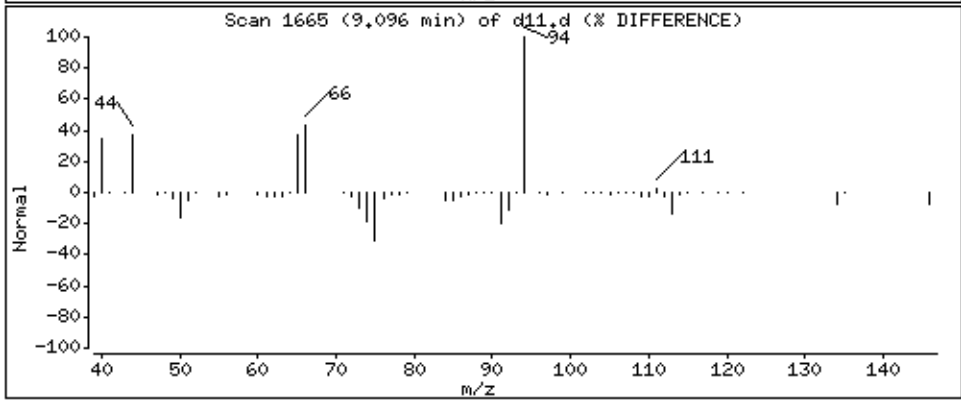
94 1,2-Dichlorobenzene

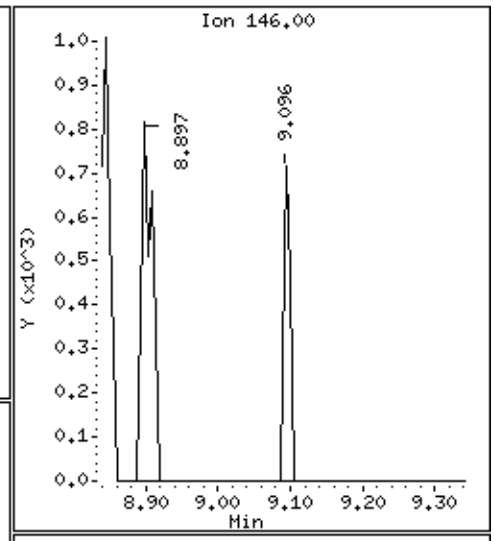
Concentration: 7.71 ppb

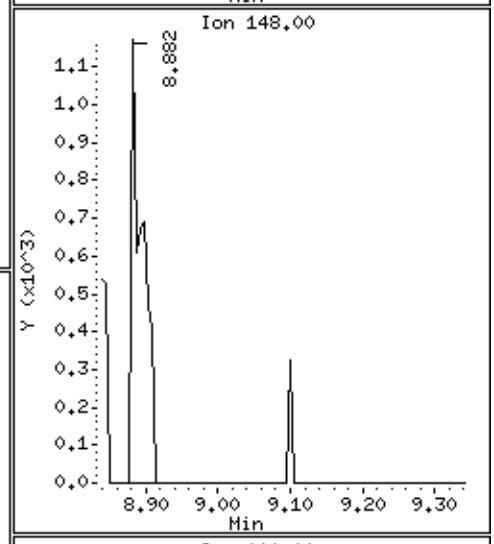


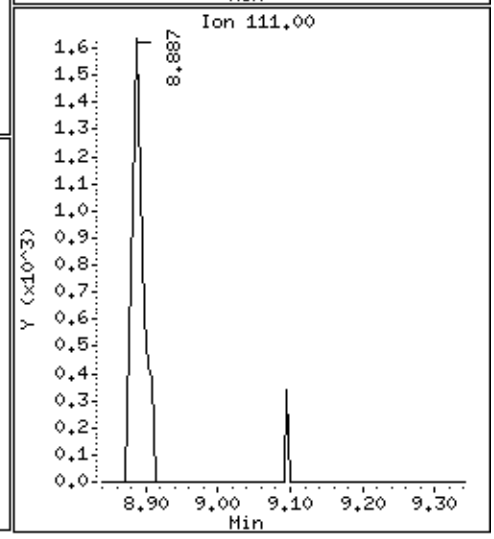












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

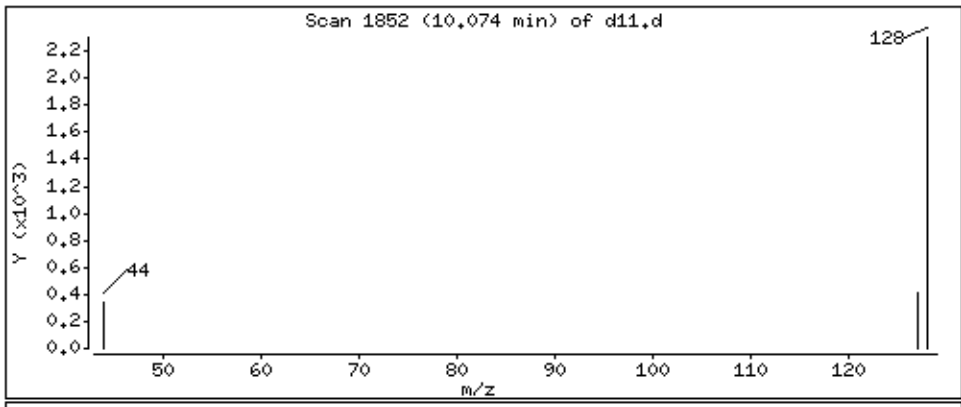
Operator: grm

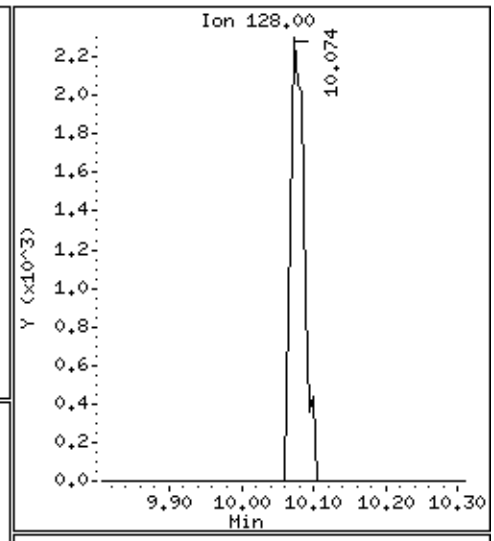
Column phase: DB-624

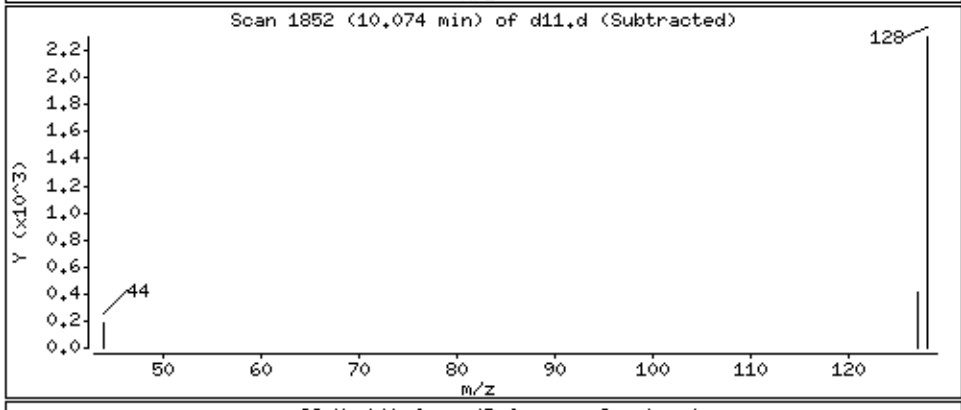
Column diameter: 0.18

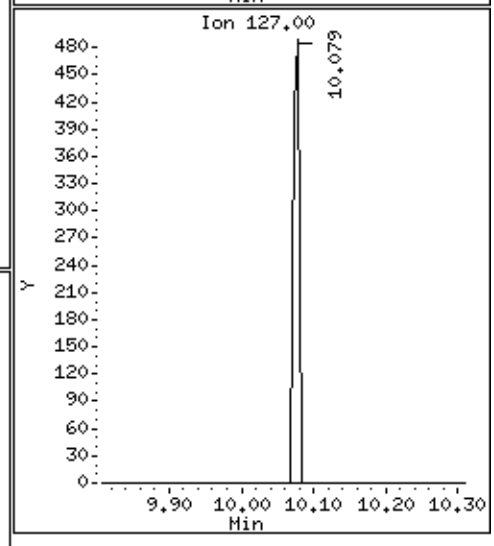
98 Naphthalene

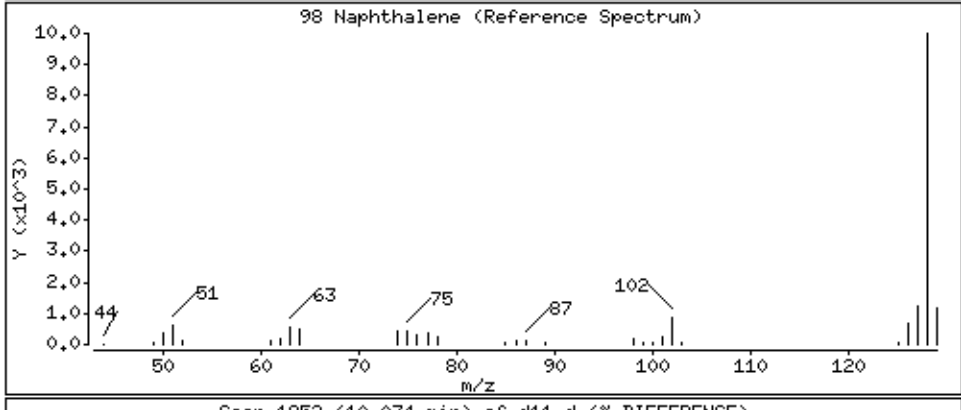
Concentration: 26.7 ppb

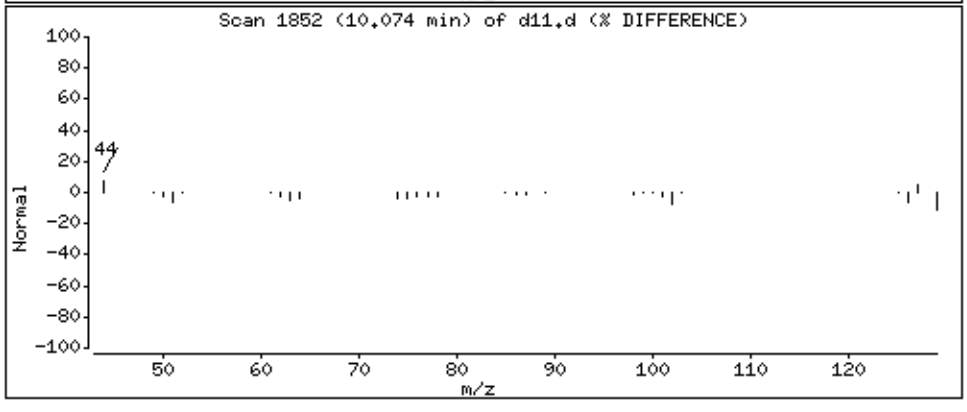












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d11.d

Date : 18-MAR-2016 06:26

Client ID: MW-0621-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212006x50

Purge Volume: 5.0

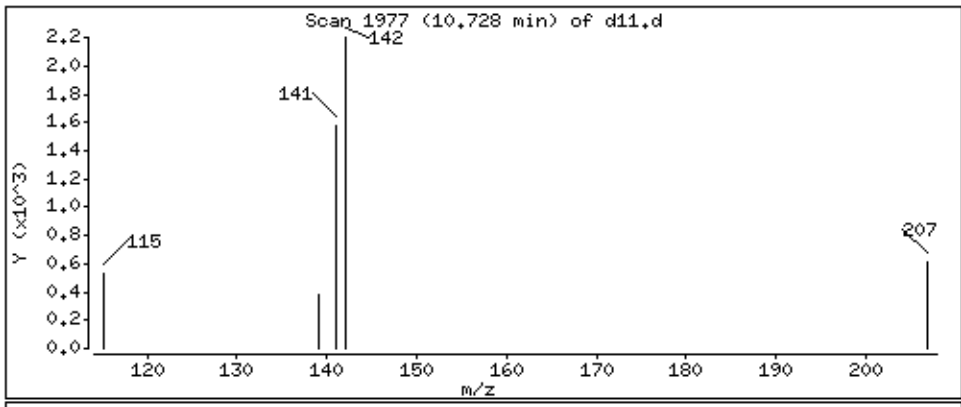
Operator: grm

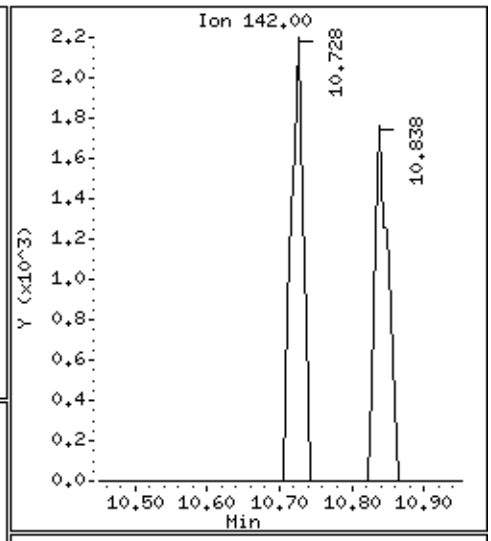
Column phase: DB-624

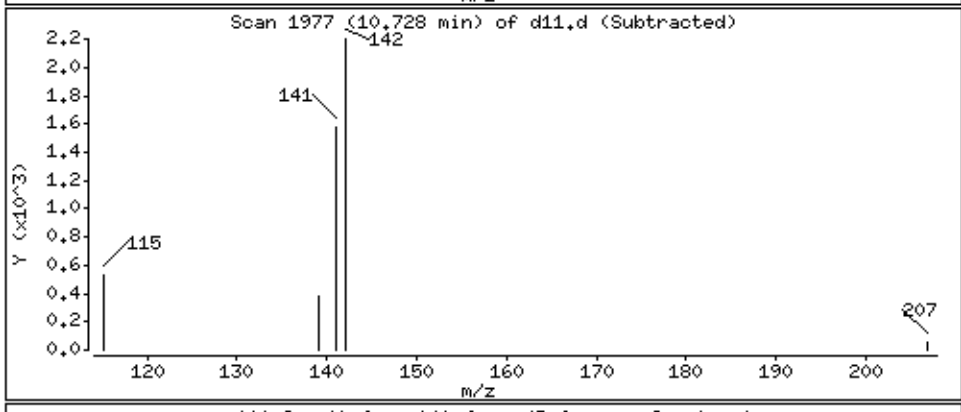
Column diameter: 0.18

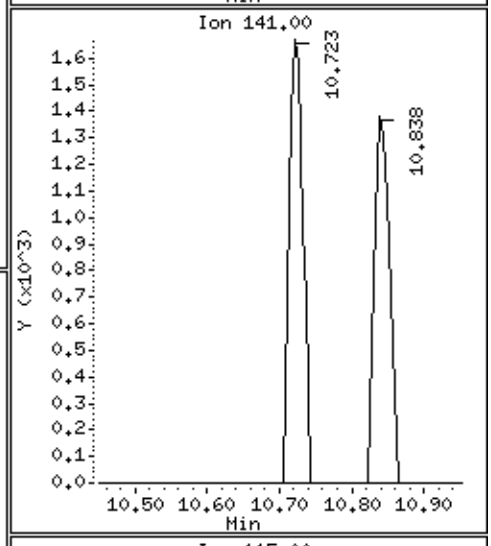
100 2,methyl-naphthalene

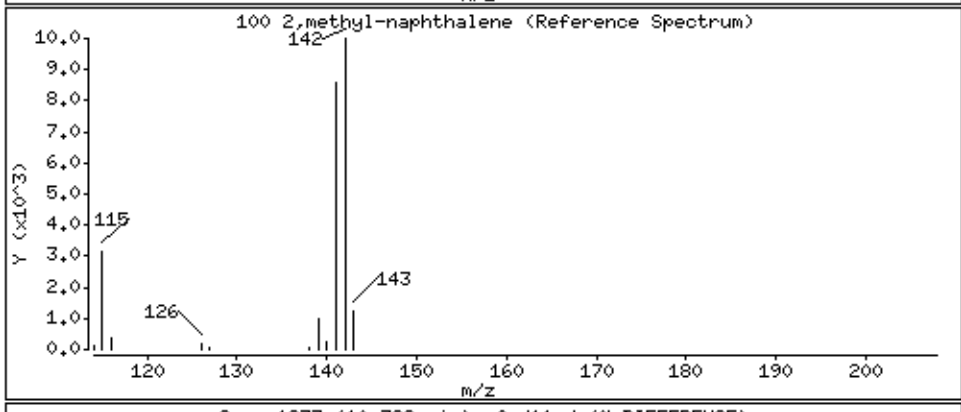
Concentration: 33.0 ppb

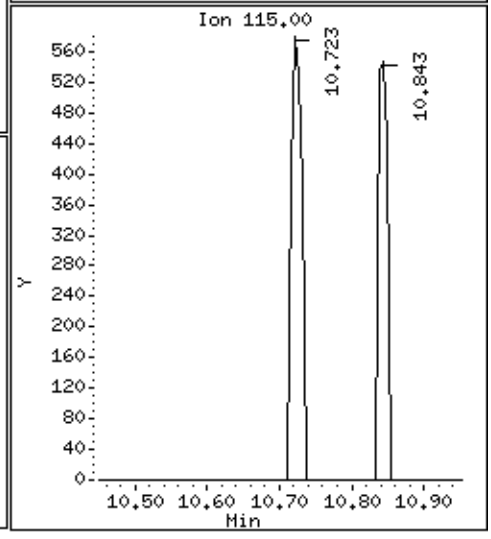


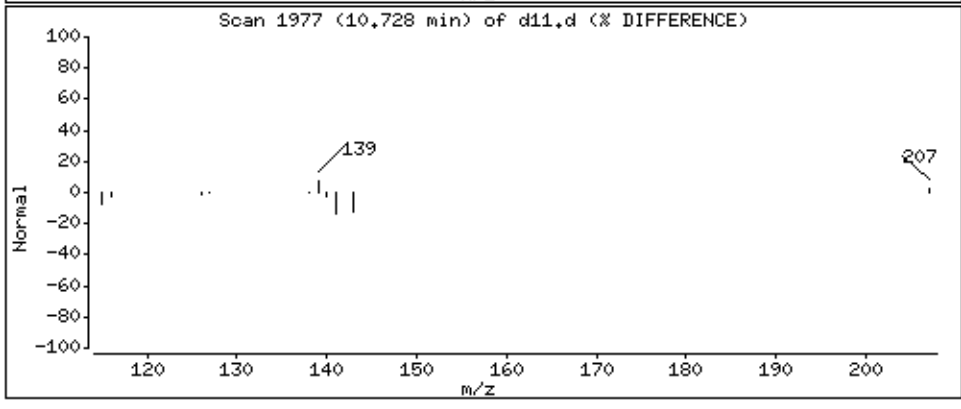












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d11.d
Injection Date: 18-MAR-2016 06:26
Instrument: 50mv1b.i
Lab Sample ID: 50140212006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-01(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 07:02 Lab Sample ID: 50140212007

Date Analyzed: 03/18/2016 07:02 Lab File ID: B031716.B\D12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	601	
156-60-5	trans-1,2-Dichloroethene	72.0	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

FD-01(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 07:02 Lab Sample ID: 50140212007

Date Analyzed: 03/18/2016 07:02 Lab File ID: B031716.B\D12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d
Lab Smp Id: 50140212007 Client Smp ID: FD-01(030916)
Inj Date : 18-MAR-2016 07:02
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212007x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 85
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.060	1.062	(0.250)	1574	0.58517	2.92(Q)	
7 Diethyl ether	74	1.499	1.496	(0.354)	764	1.08816	5.44	
11 1,1-Dichloroethene	96	1.630	1.627	(0.385)	343	0.25268	1.26(Q)	
18 Methylene Chloride	84	1.907	1.904	(0.450)	587	0.35057	1.75	
22 1,2-Dichloroethene (trans)	96	2.080	2.077	(0.491)	22298	14.4038	72.0	
29 1,2-Dichloroethene (cis)	96	2.870	2.872	(0.678)	193881	120.270	601	
$ 38 Dibromofluoromethane (S)	113	3.398	3.400	(0.802)	80841	53.0848	53.1	
* 46 Fluorobenzene (IS)	96	4.235	4.232	(1.000)	293261	50.0000		
47 Trichloroethene	95	4.679	4.682	(1.105)	1148886	733.015	3660	
$ 57 Toluene-d8	98	6.076	6.073	(0.822)	276715	49.1152	49.1	
58 Toluene	91	6.149	6.146	(0.832)	3166	0.45816	2.29	
* 67 Chlorobenzene-D5 (IS)	117	7.394	7.391	(1.000)	216981	50.0000		
$ 76 4-Bromofluorobenzene	95	8.209	8.207	(1.110)	104267	52.9352	52.9	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.881	(1.000)	115723	50.0000		

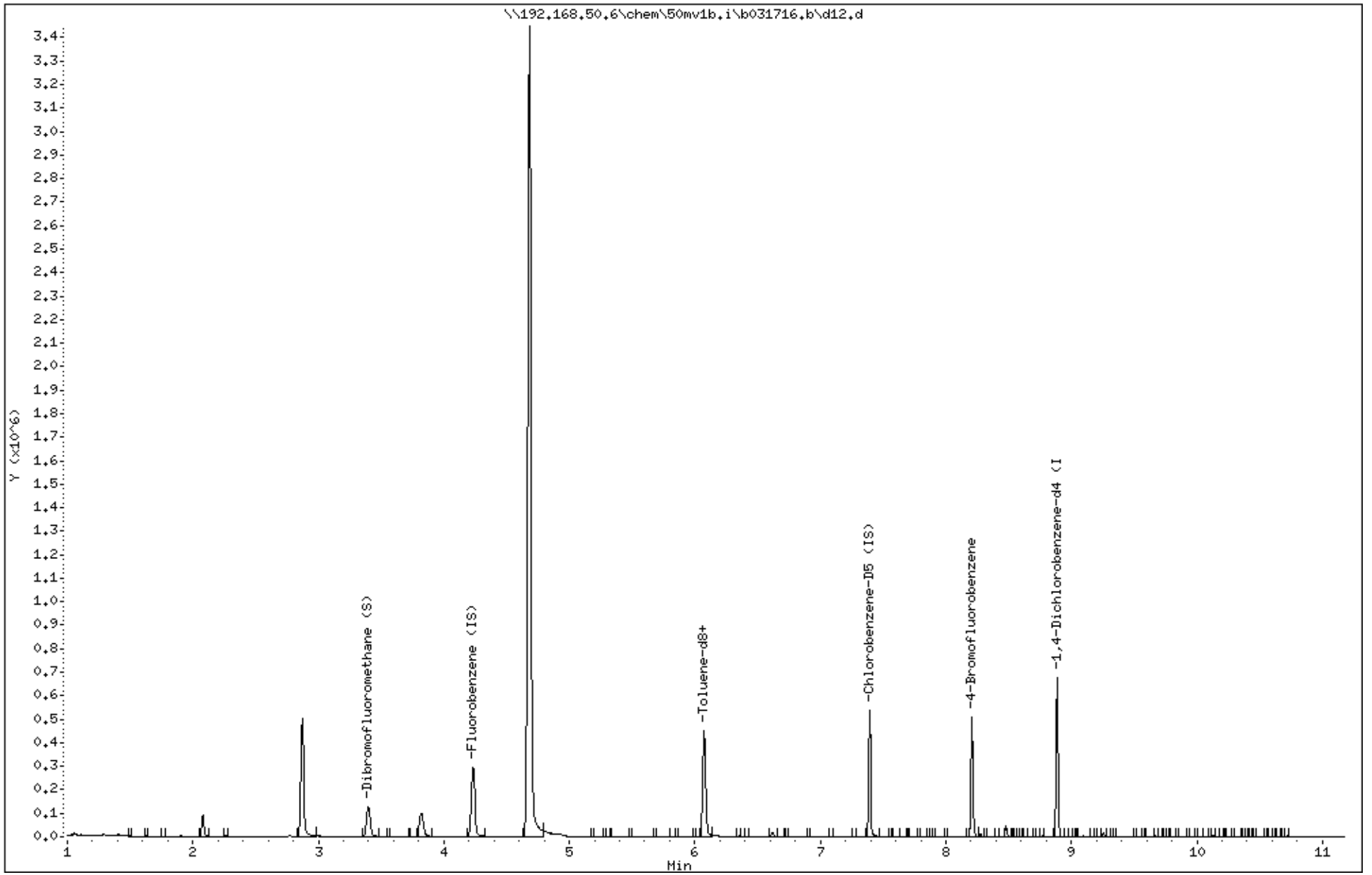
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d
Date : 18-MAR-2016 07:02
Client ID: FD-01(030916)
Instrument: 50mv1b.i
Sample Info: 50140212007x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

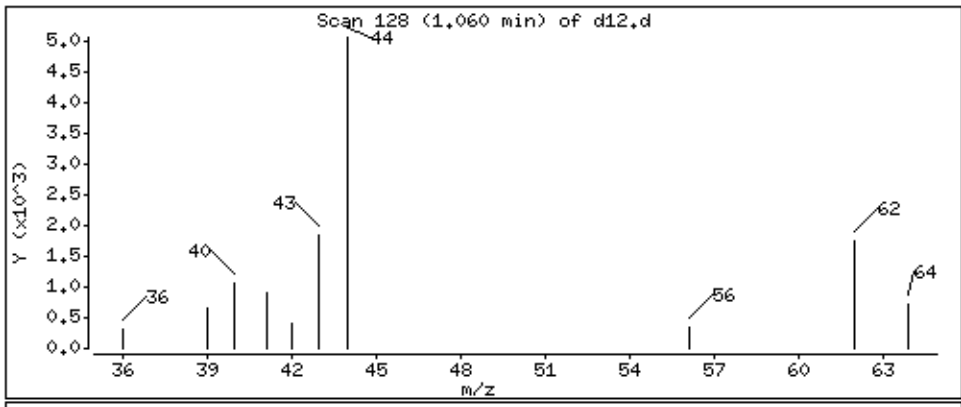
Operator: grm

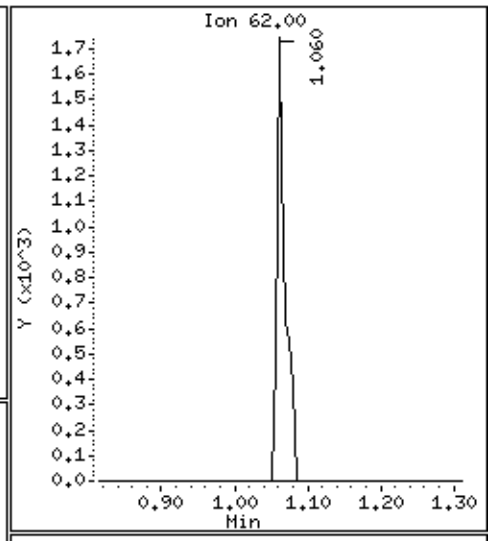
Column phase: DB-624

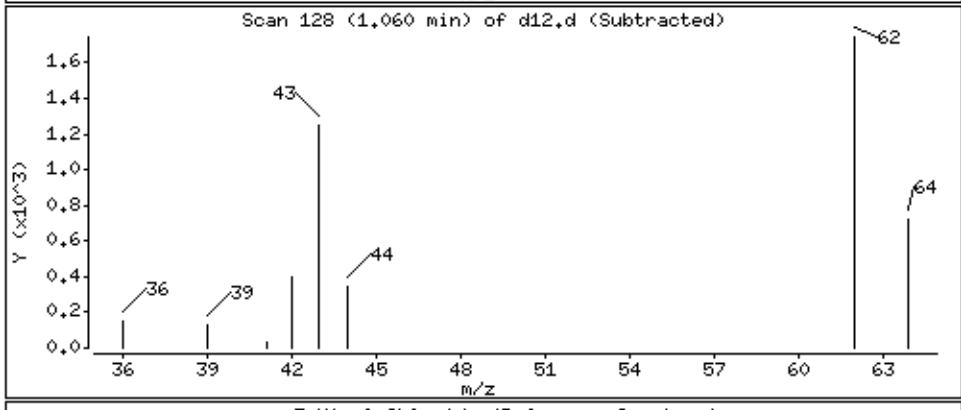
Column diameter: 0.18

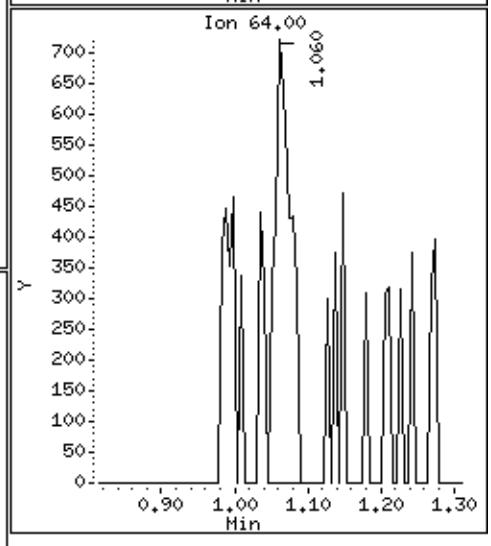
3 Vinyl Chloride

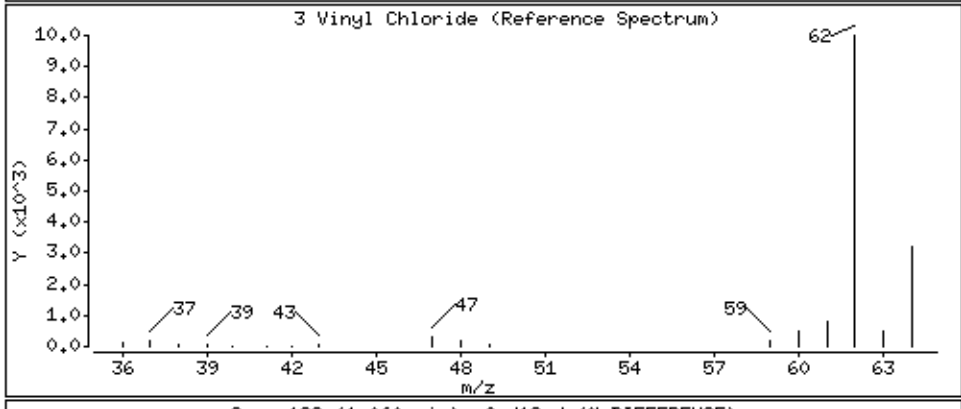
Concentration: 2.92 ppb

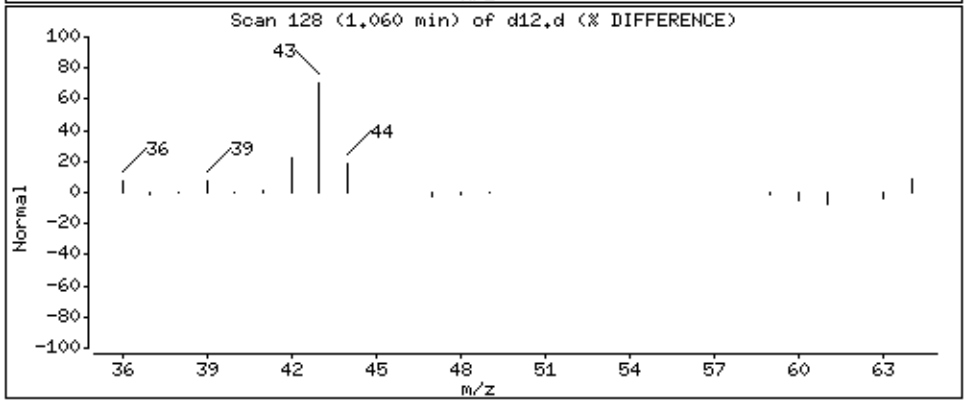












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

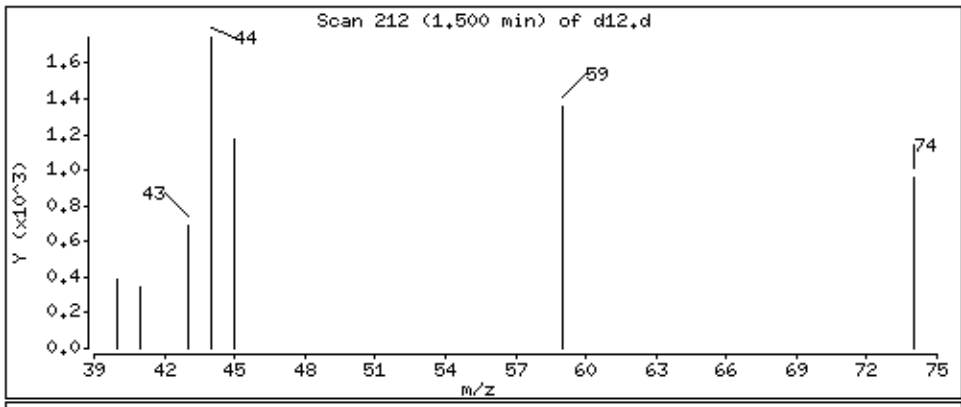
Operator: grm

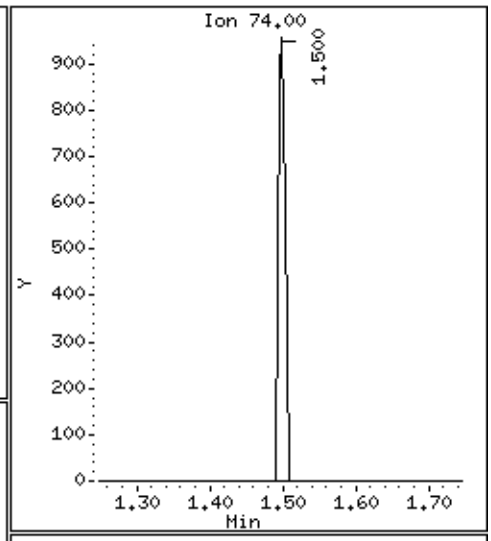
Column phase: DB-624

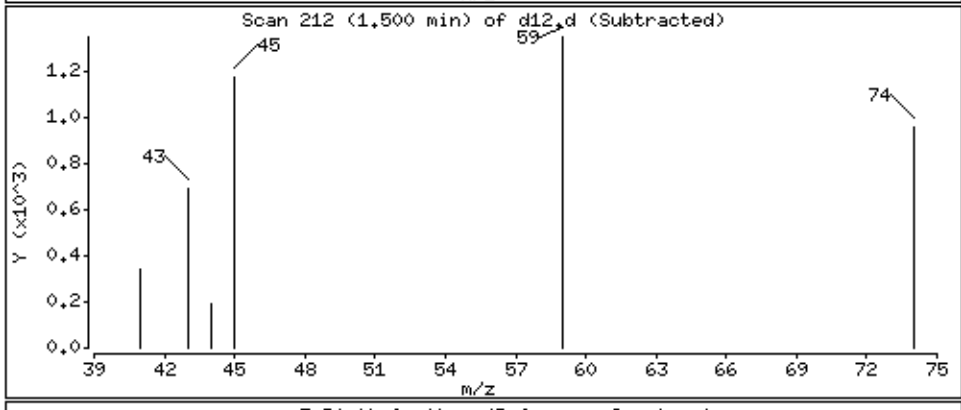
Column diameter: 0.18

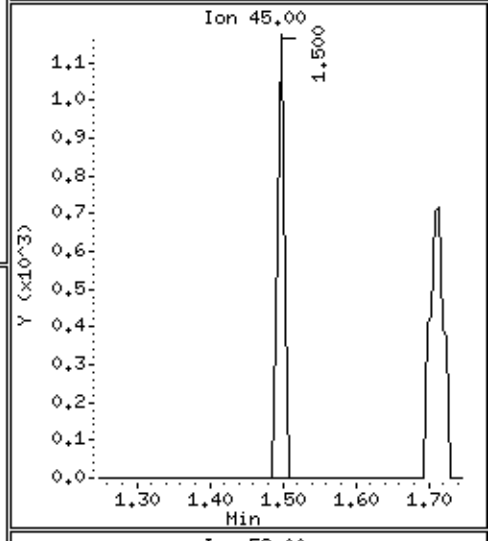
7 Diethyl ether

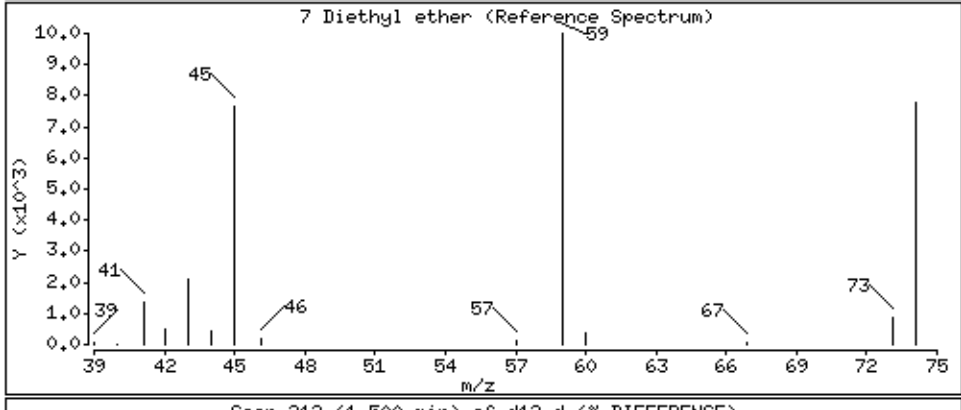
Concentration: 5.44 ppb

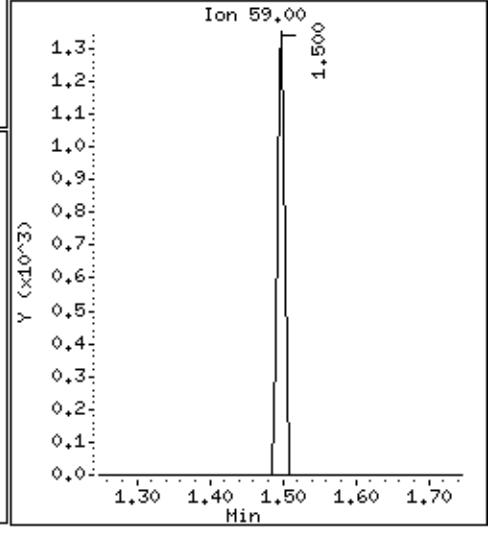


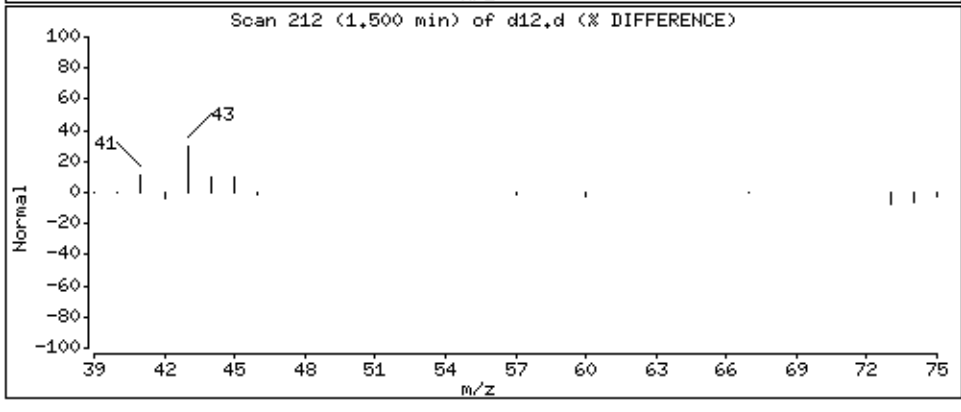












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

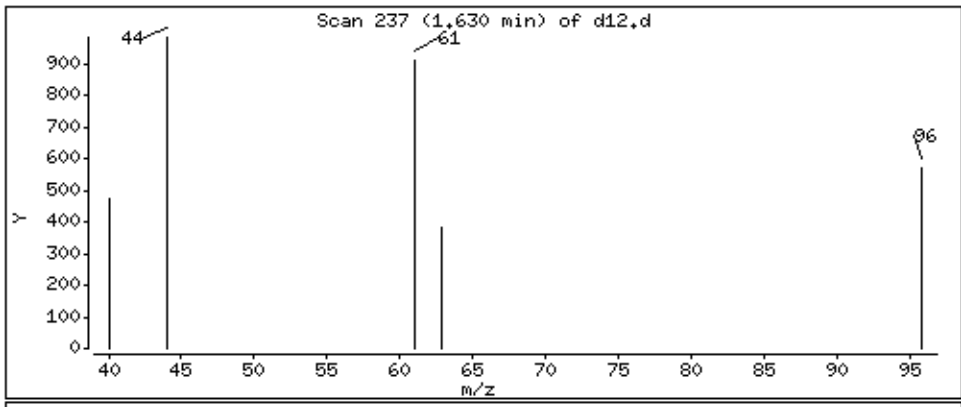
Operator: grm

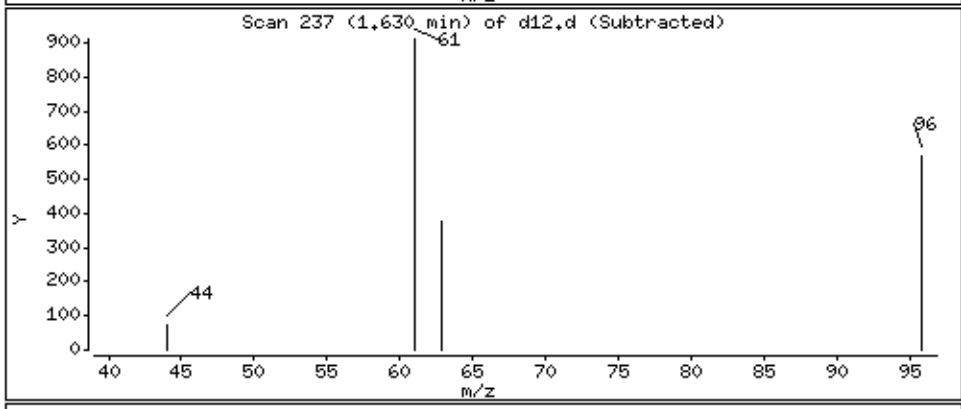
Column phase: DB-624

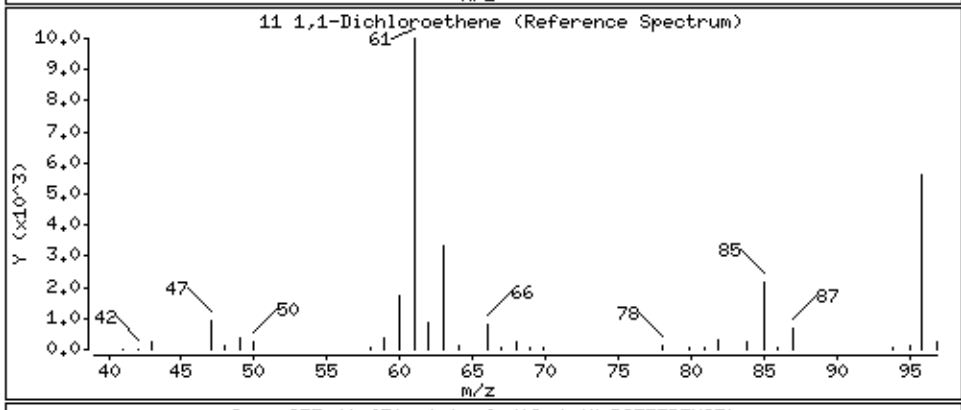
Column diameter: 0.18

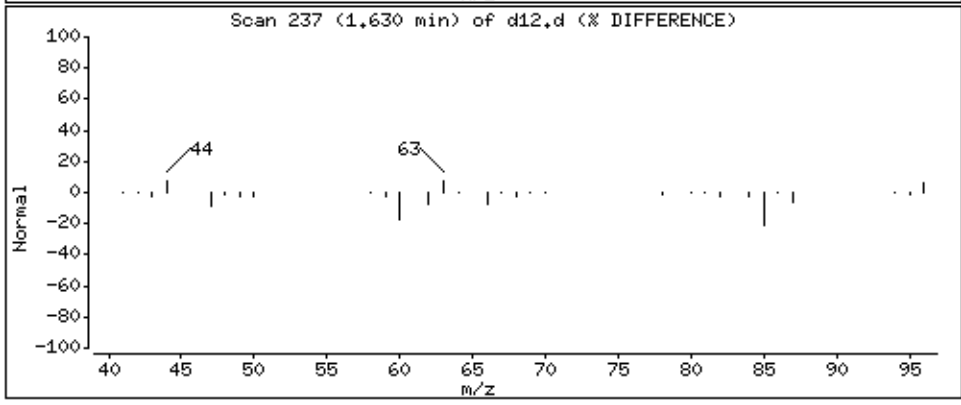
11 1,1-Dichloroethene

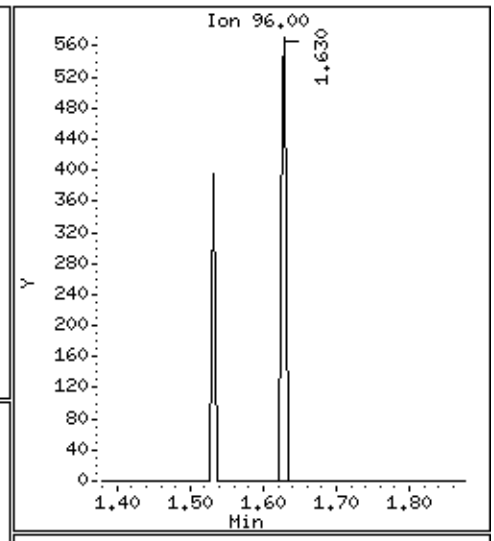
Concentration: 1.26 ppb

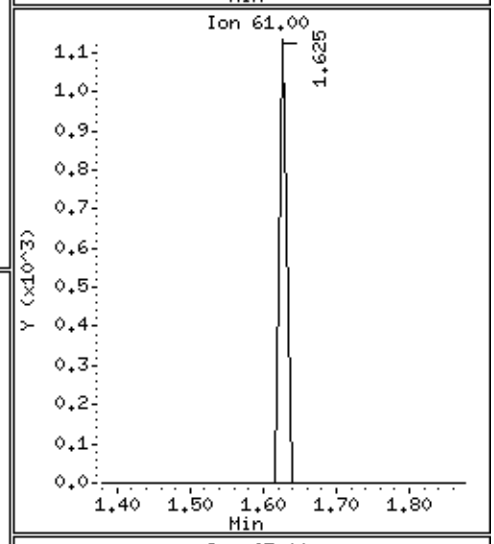


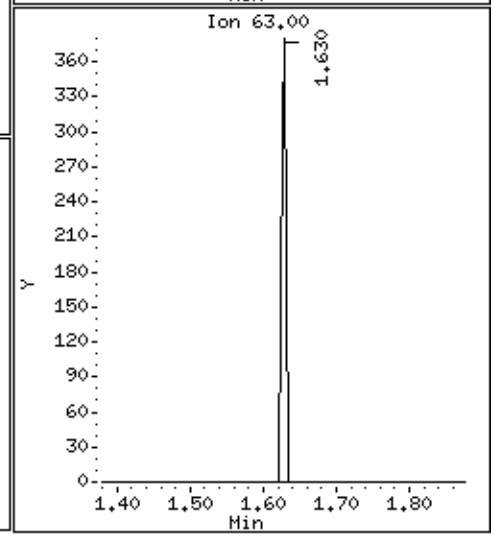












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

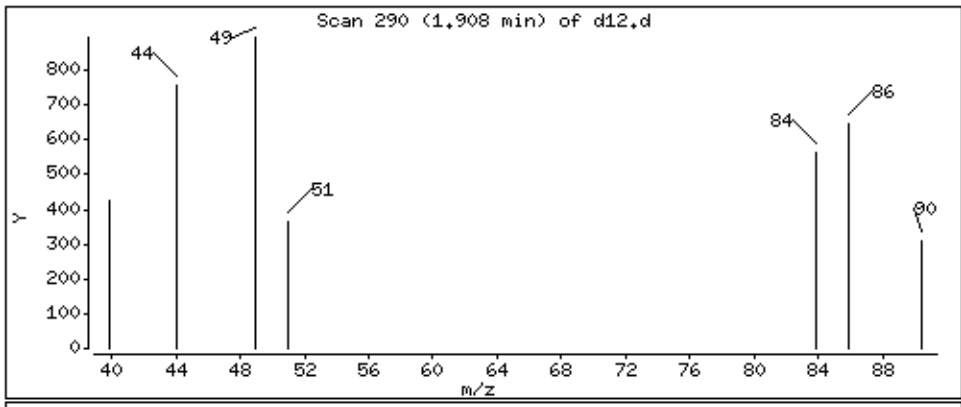
Operator: grm

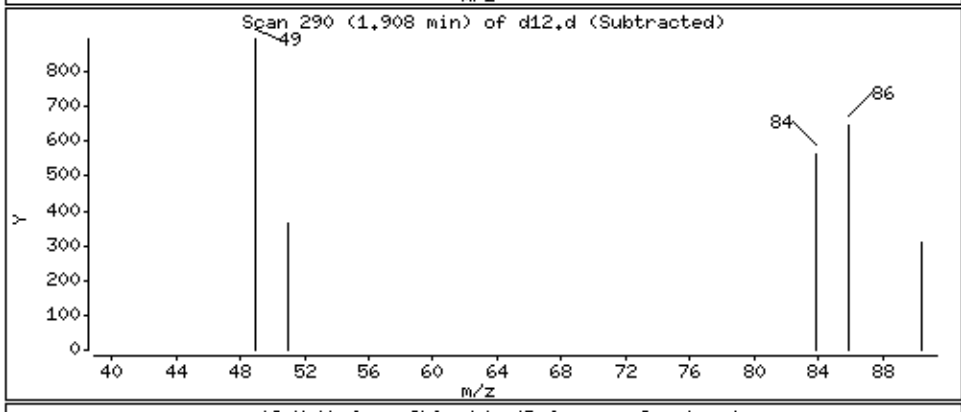
Column phase: DB-624

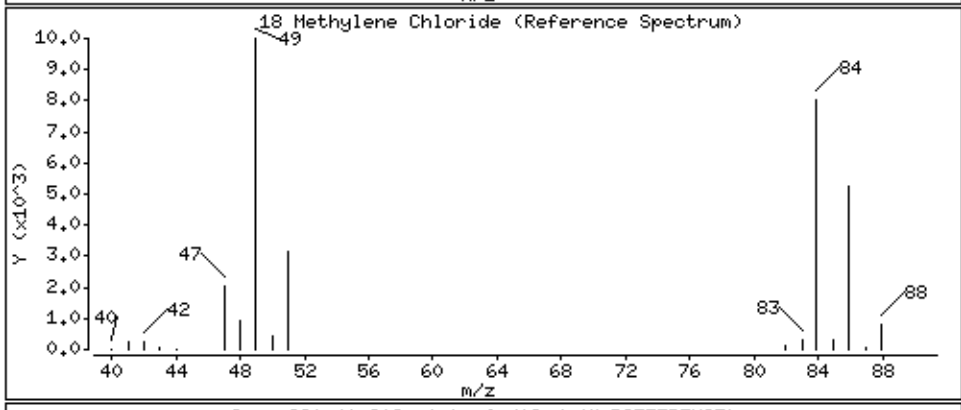
Column diameter: 0.18

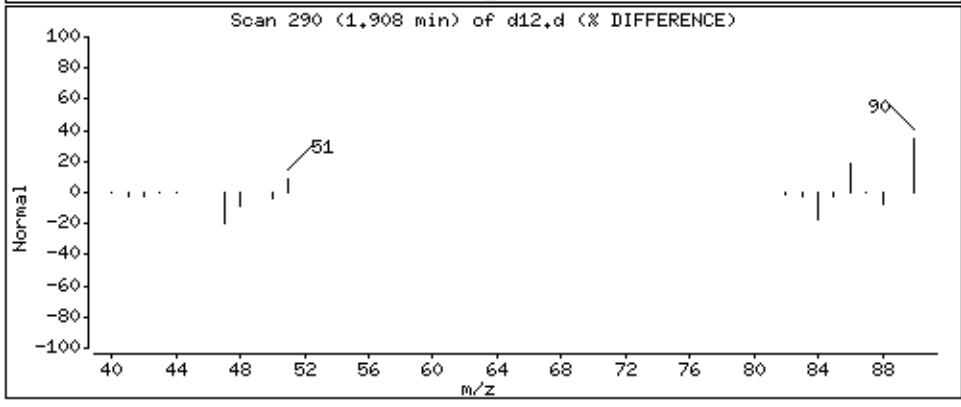
18 Methylene Chloride

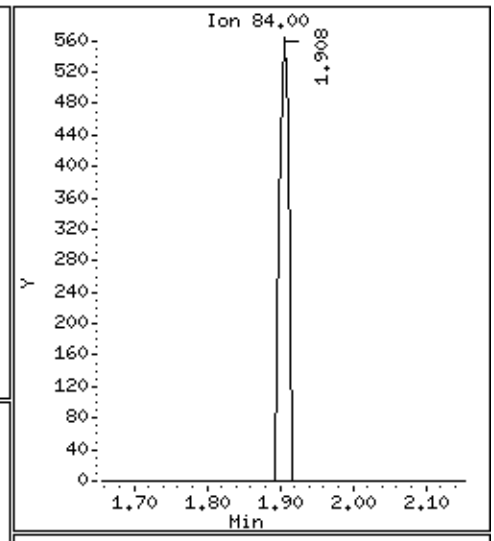
Concentration: 1.75 ppb

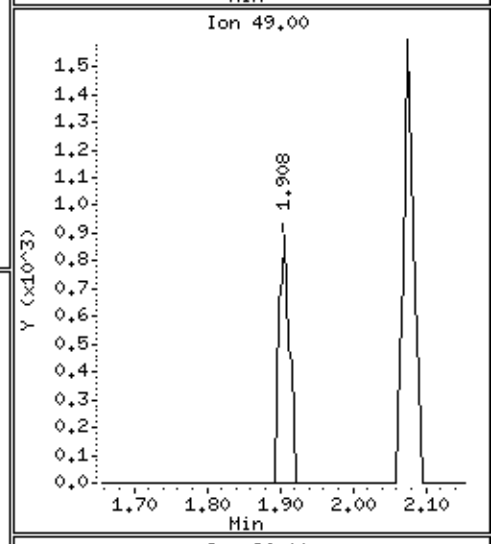


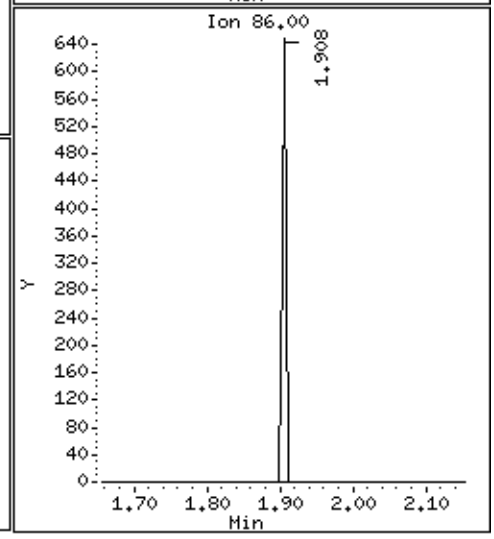












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

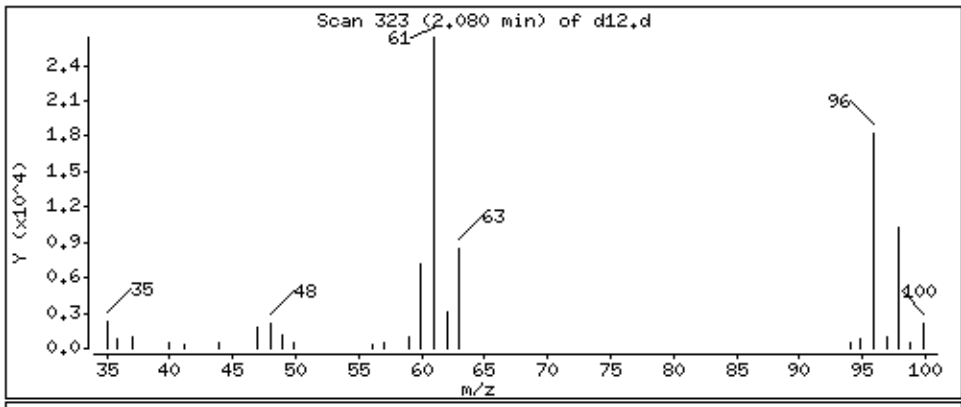
Operator: grm

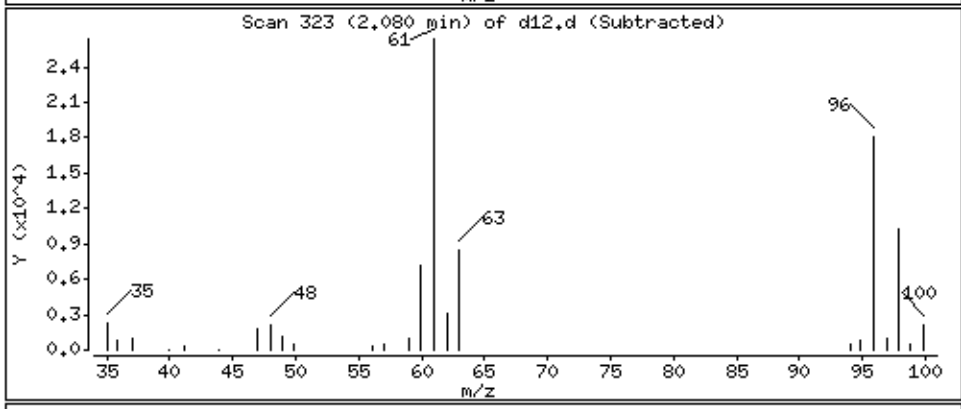
Column phase: DB-624

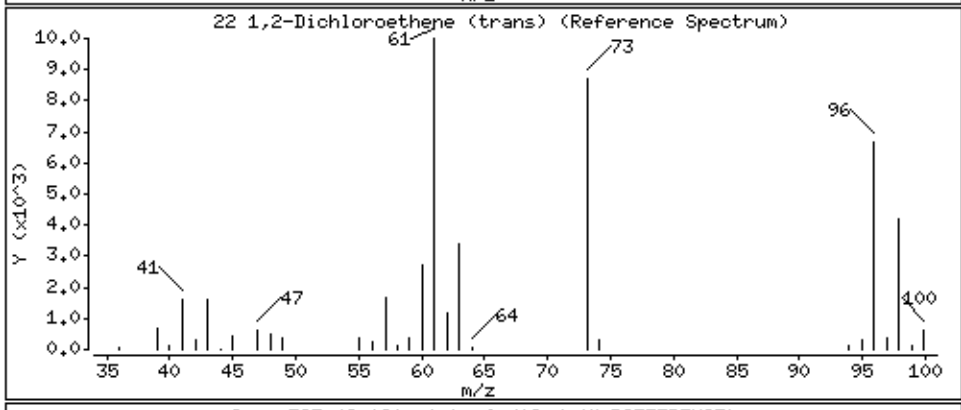
Column diameter: 0.18

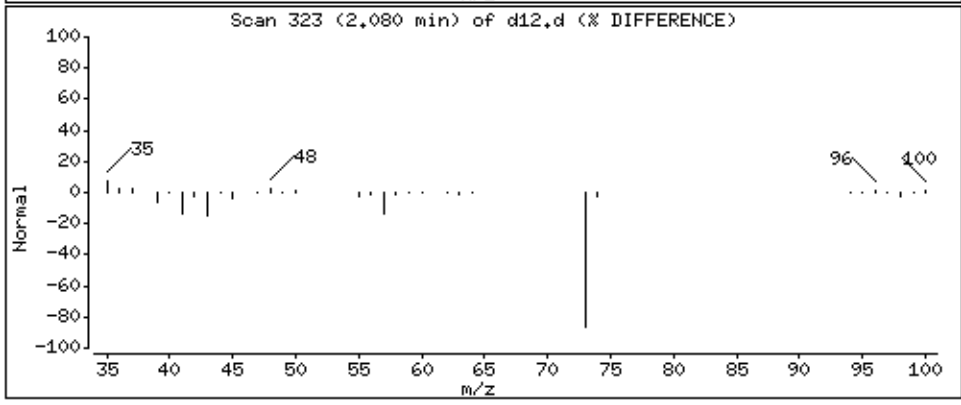
22 1,2-Dichloroethene (trans)

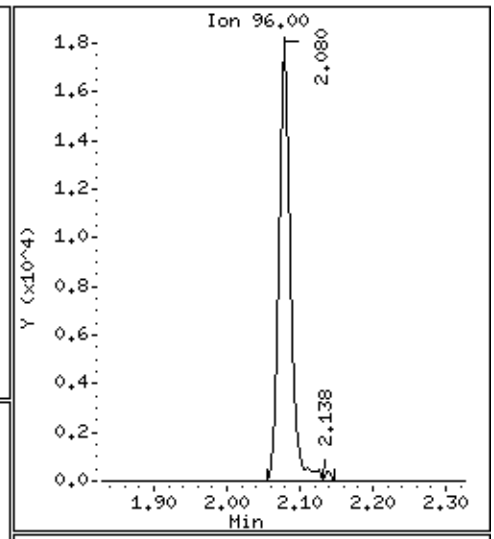
Concentration: 72.0 ppb

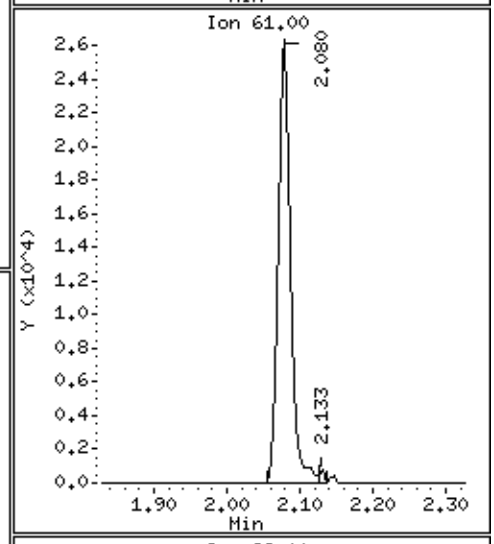


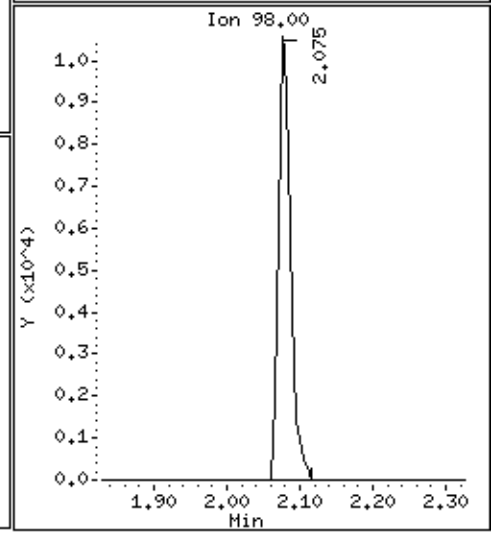












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

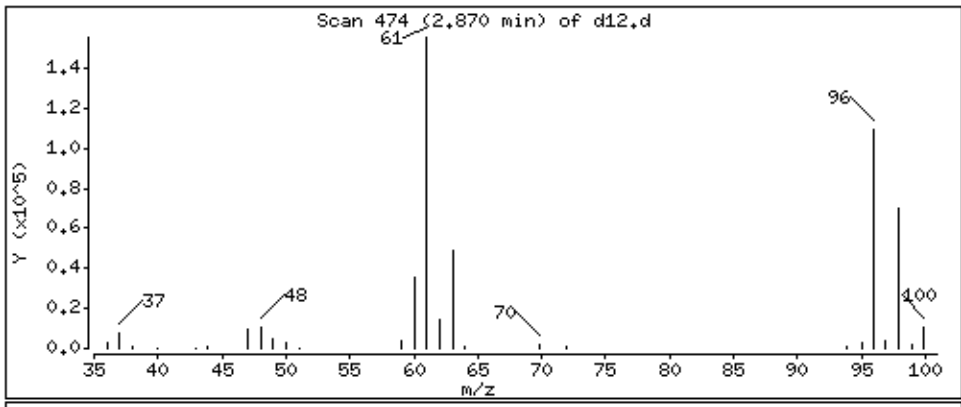
Operator: grm

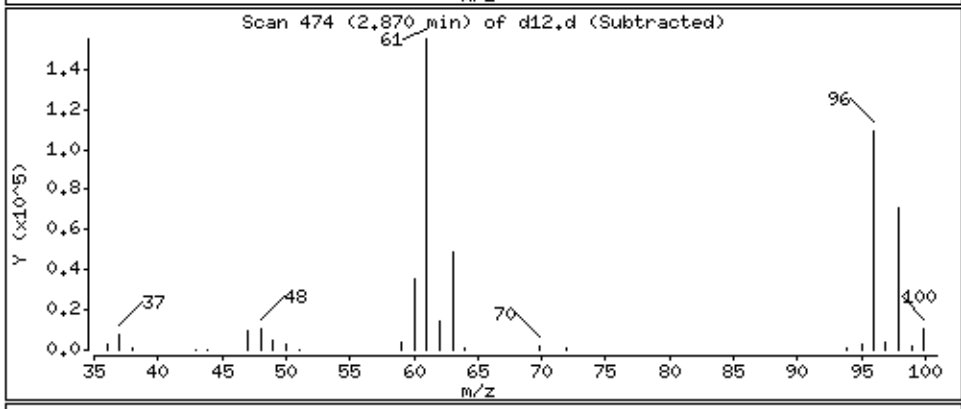
Column phase: DB-624

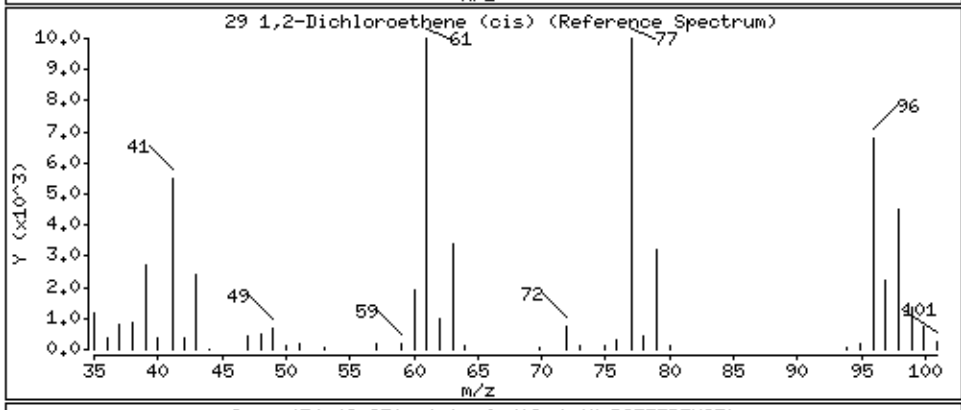
Column diameter: 0.18

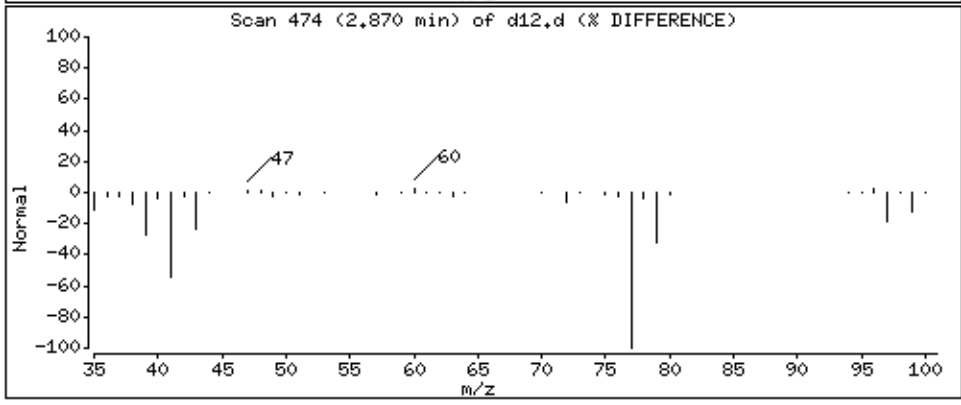
29 1,2-Dichloroethene (cis)

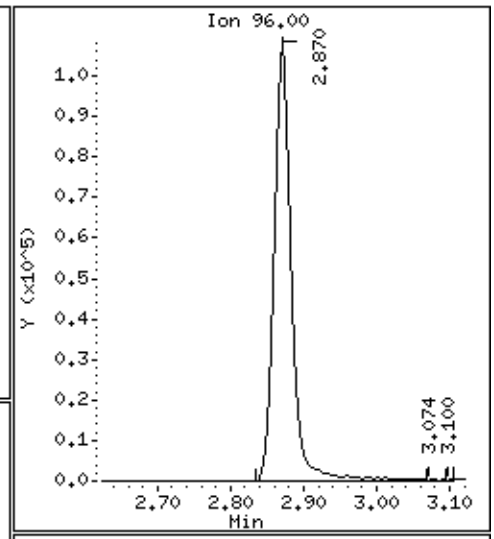
Concentration: 601 ppb

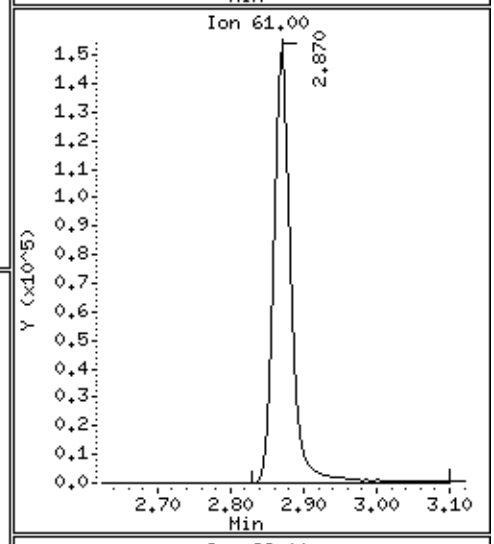


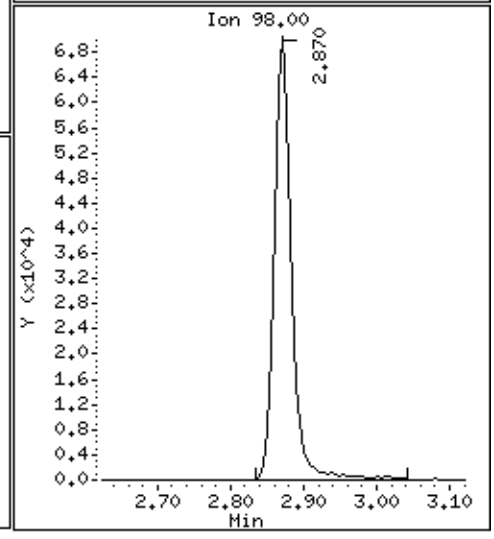












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

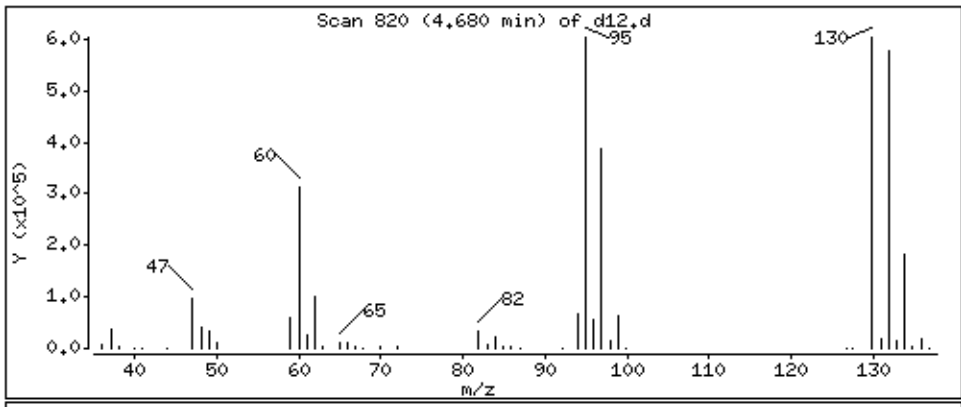
Operator: grm

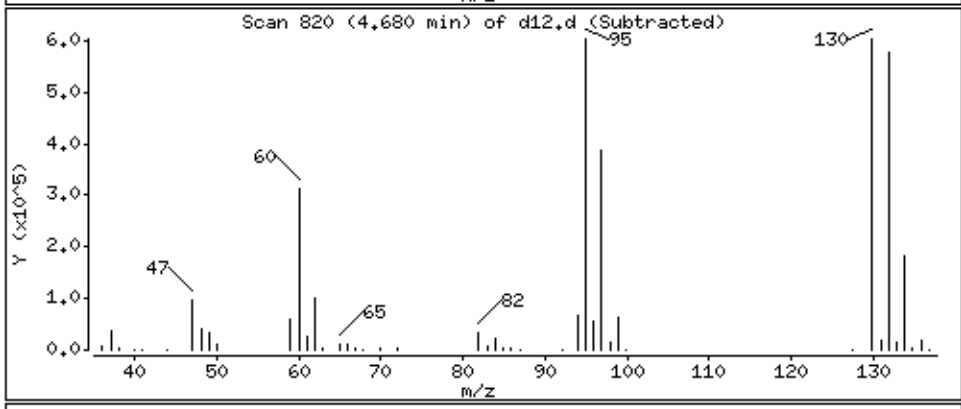
Column phase: DB-624

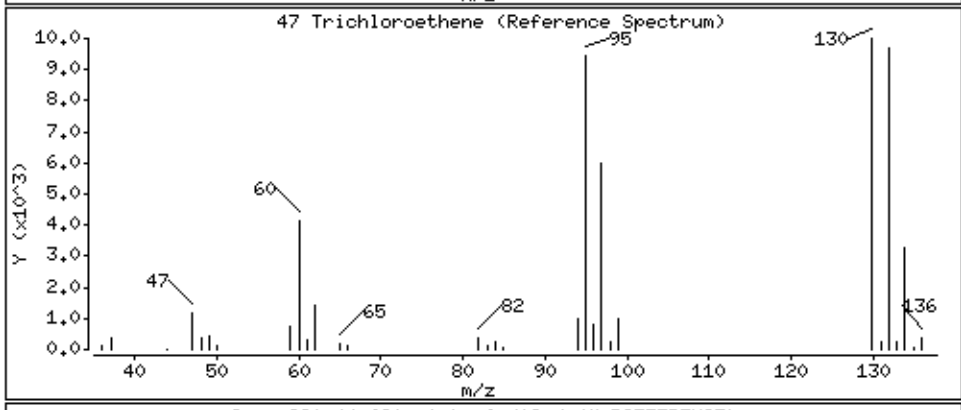
Column diameter: 0.18

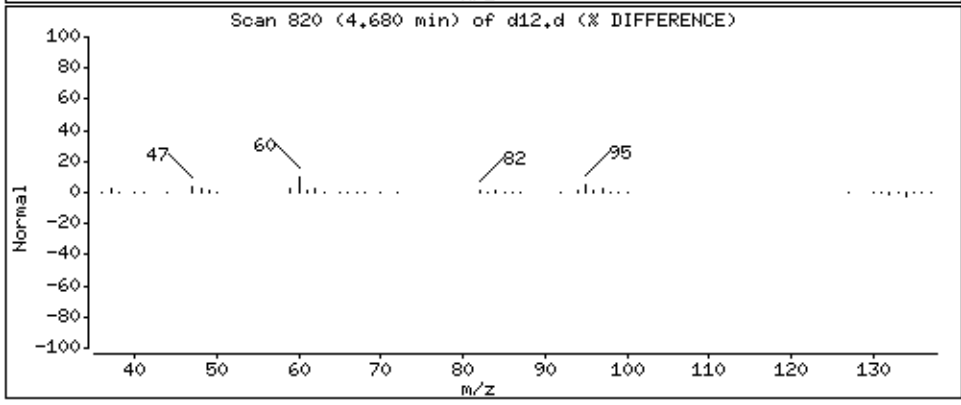
47 Trichloroethene

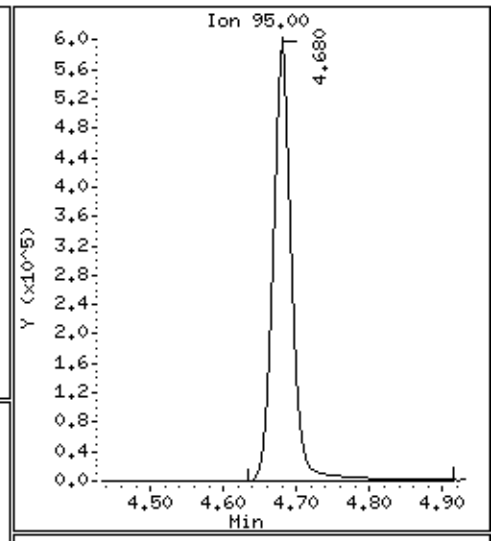
Concentration: 3660 ppb

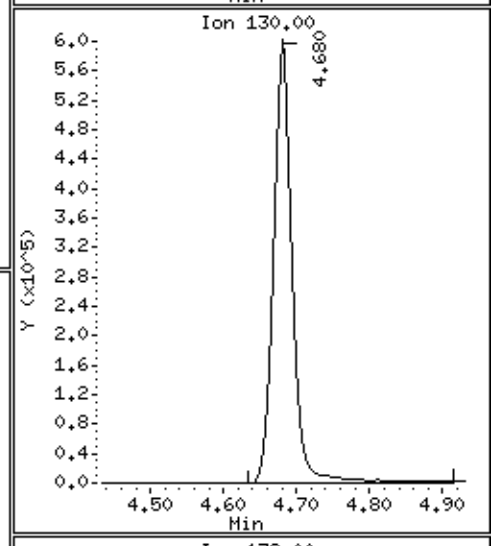


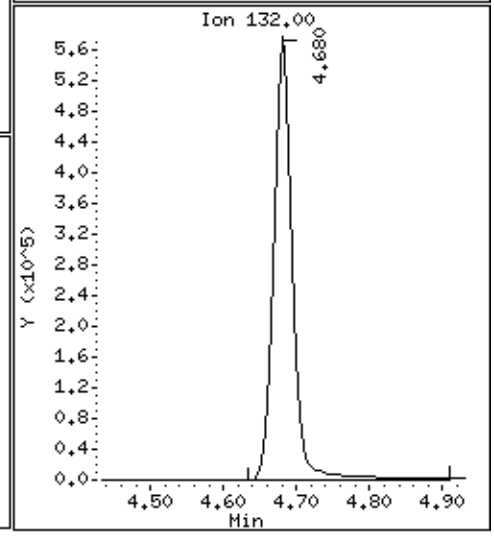












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d12.d

Date : 18-MAR-2016 07:02

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x5

Purge Volume: 5.0

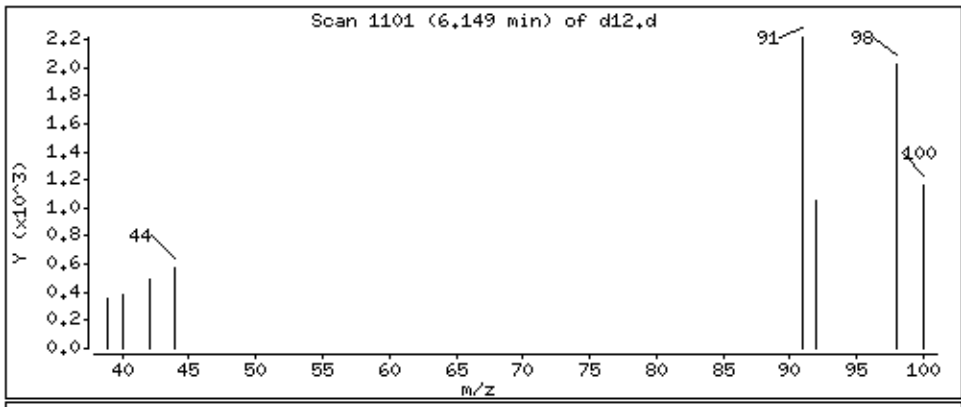
Operator: grm

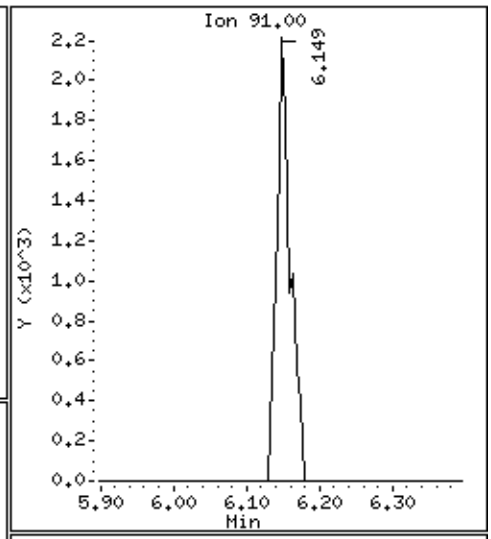
Column phase: DB-624

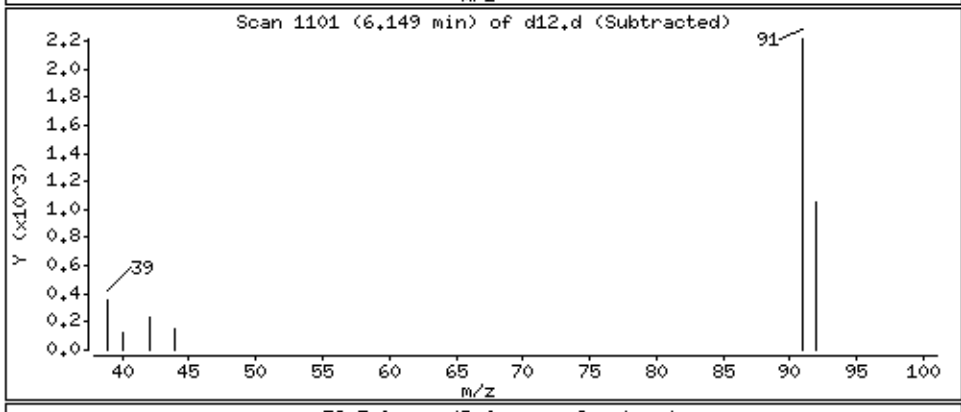
Column diameter: 0.18

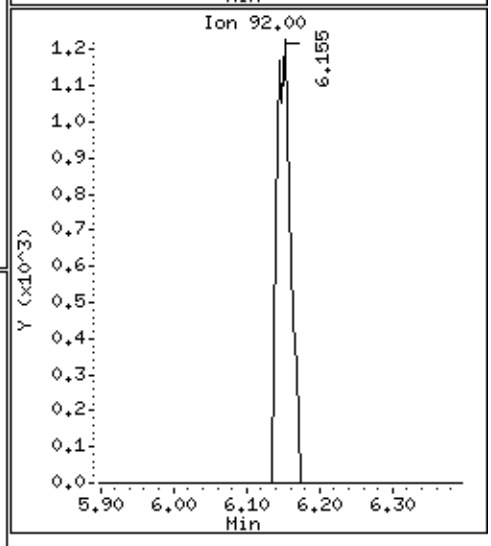
58 Toluene

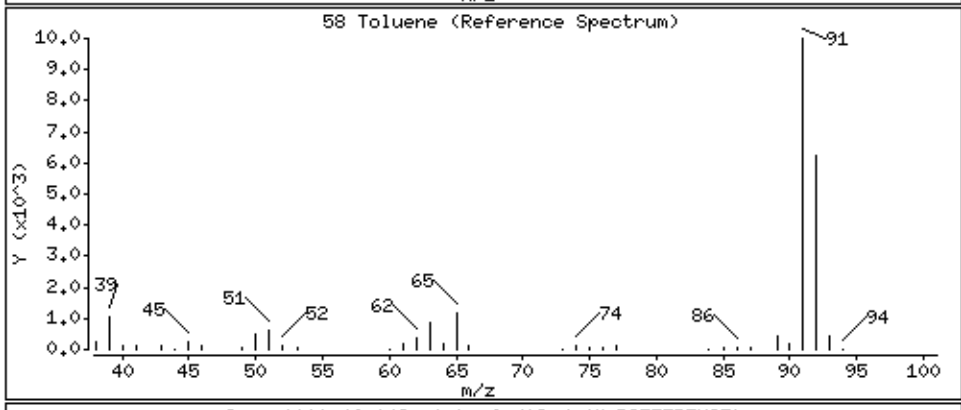
Concentration: 2.29 ppb

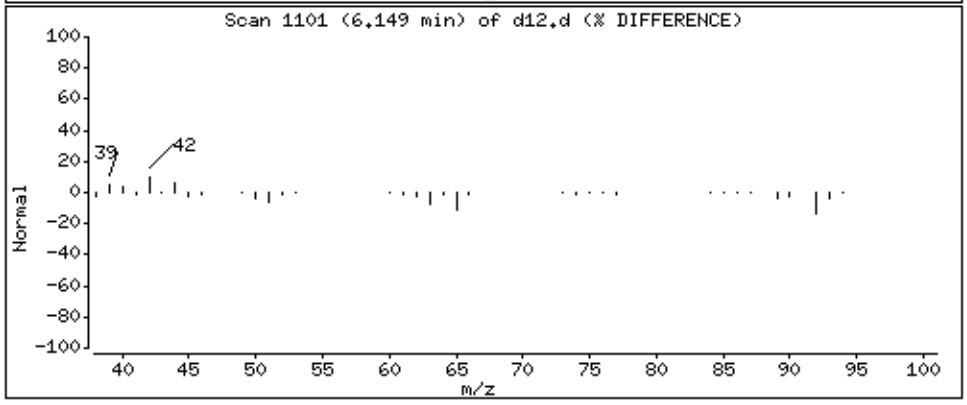












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d12.d
Injection Date: 18-MAR-2016 07:02
Instrument: 50mv1b.i
Lab Sample ID: 50140212007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-01(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 07:37 Lab Sample ID: 50140212007

Date Analyzed: 03/18/2016 07:37 Lab File ID: B031716.B\D13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	3720	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d
Lab Smp Id: 50140212007 Client Smp ID: FD-01(030916)
Inj Date : 18-MAR-2016 07:37
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212007x50
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 86
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.496	1.496	(0.354)	861	1.25179	62.6(Q)	
	18 Methylene Chloride	84	1.904	1.904	(0.450)	603	0.36760	18.4	
	22 1,2-Dichloroethene (trans)	96	2.082	2.077	(0.492)	2511	1.65571	82.8	
	24 n-Hexane	57	2.260	2.260	(0.534)	2418	0.90657	45.3	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	19984	12.6542	633	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	79891	53.5506	53.6	
*	46 Fluorobenzene (IS)	96	4.232	4.232	(1.000)	287294	50.0000		
	47 Trichloroethene	95	4.676	4.682	(1.105)	114183	74.3644	3720	
$	57 Toluene-d8	98	6.078	6.073	(0.822)	275932	49.3501	49.4	
	58 Toluene	91	6.151	6.146	(0.832)	3484	0.50803	25.4	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.391	(1.000)	215337	50.0000		
$	76 4-Bromofluorobenzene	95	8.207	8.207	(1.110)	103179	52.7827	52.8	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	115768	50.0000		

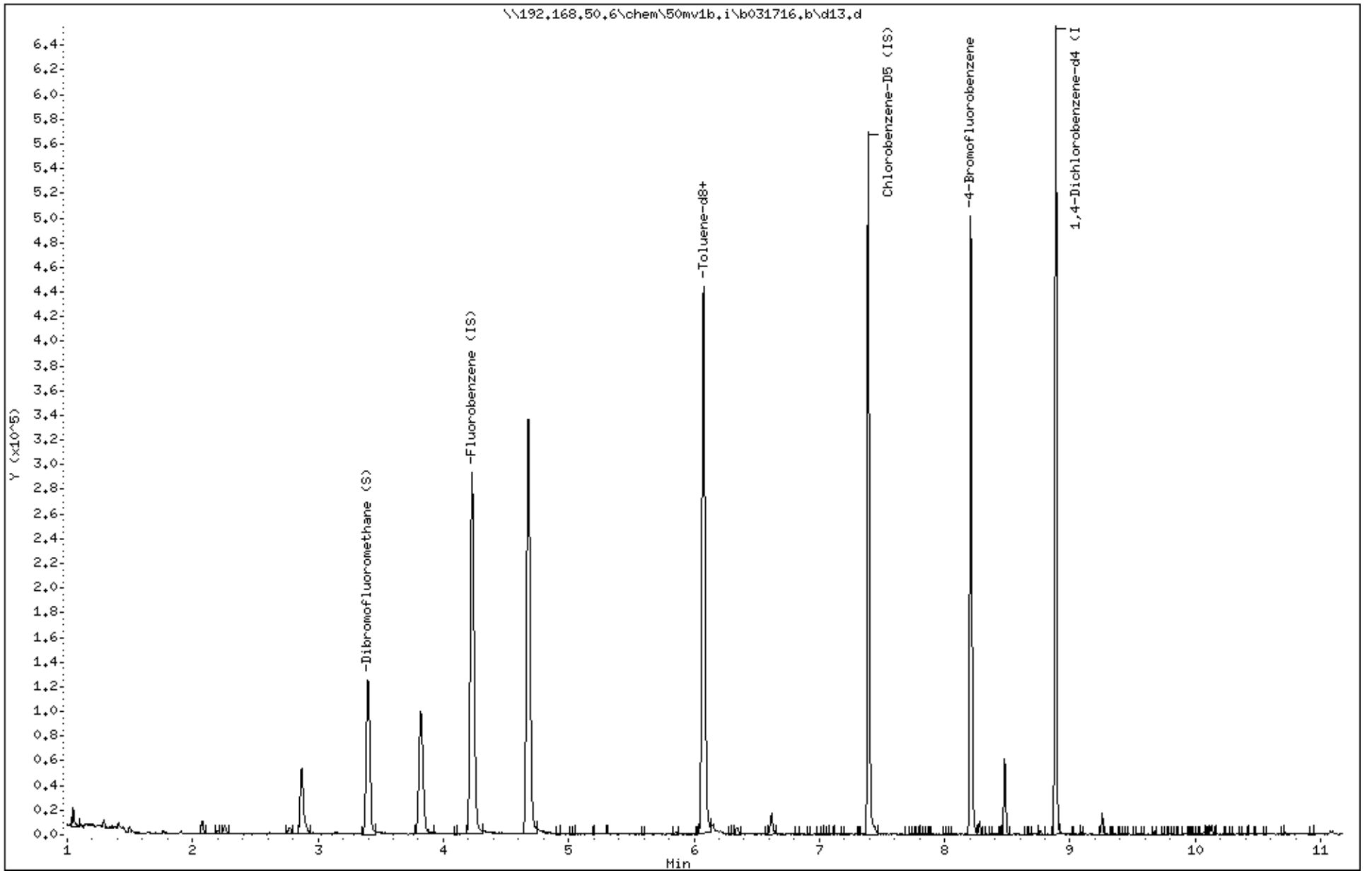
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d
Date : 18-MAR-2016 07:37
Client ID: FD-01(030916)
Instrument: 50mv1b.i
Sample Info: 50140212007x50
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

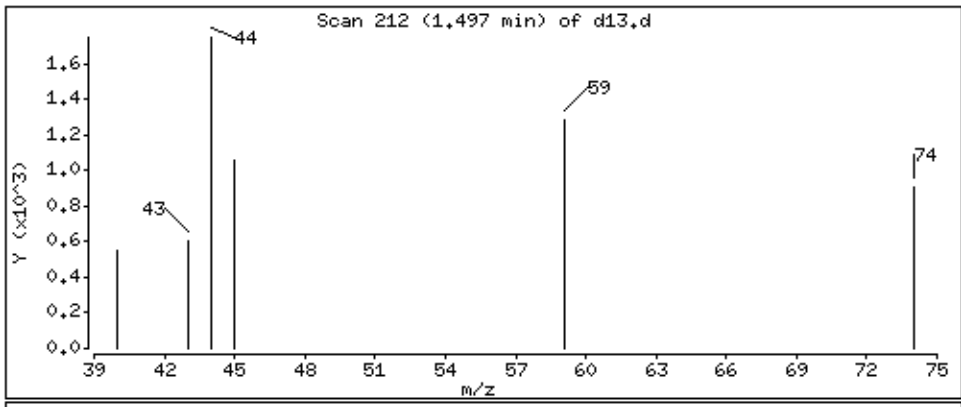
Operator: grm

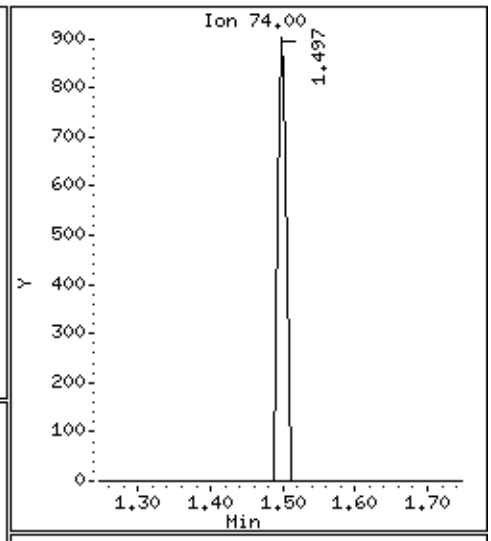
Column phase: DB-624

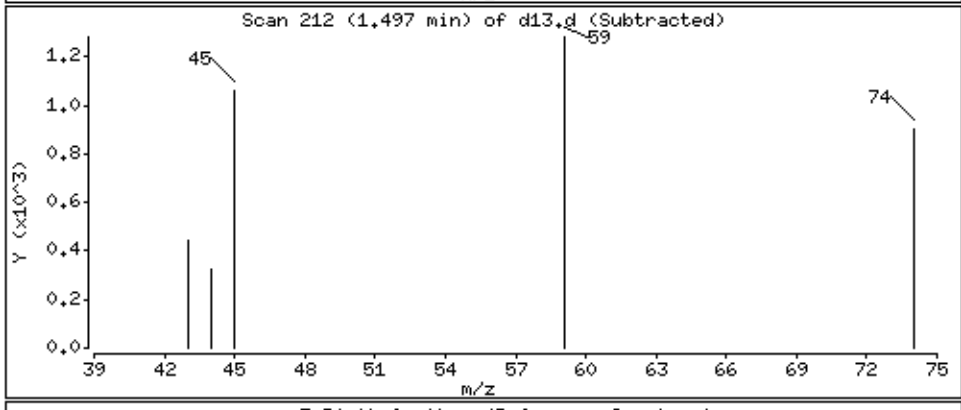
Column diameter: 0.18

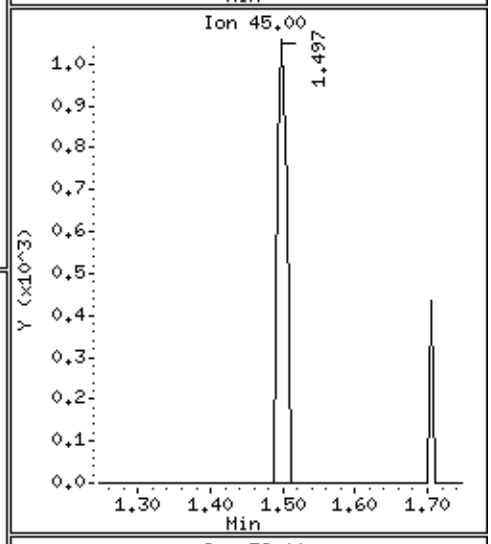
7 Diethyl ether

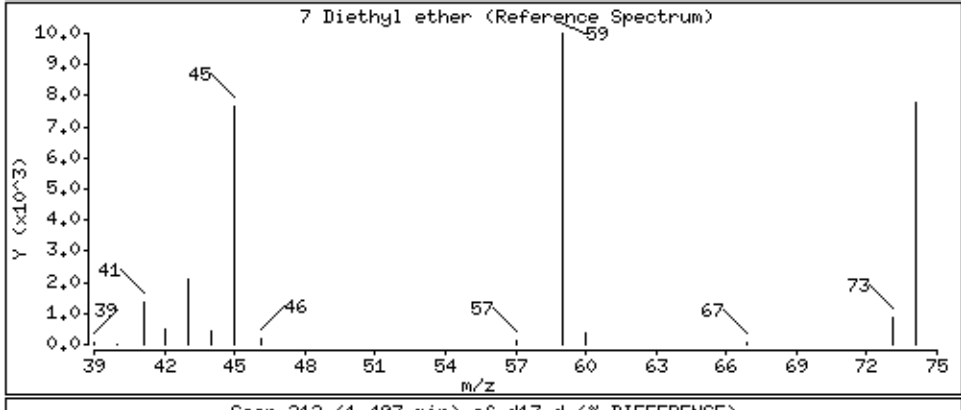
Concentration: 62.6 ppb

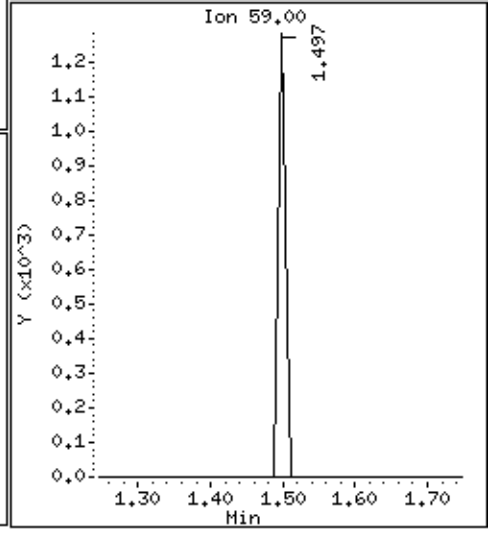


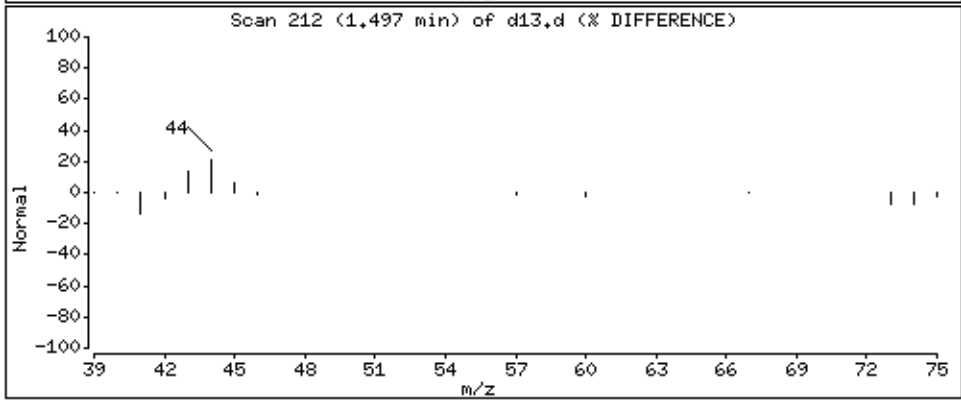












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

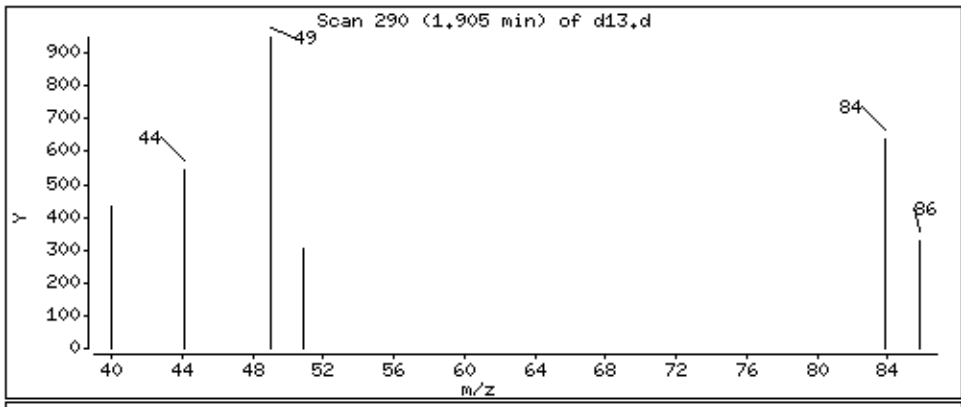
Operator: grm

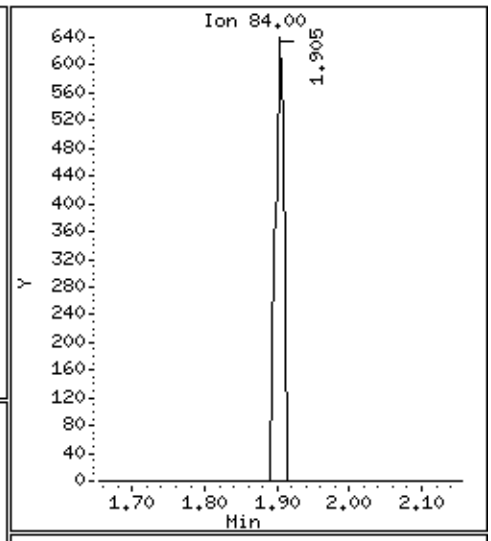
Column phase: DB-624

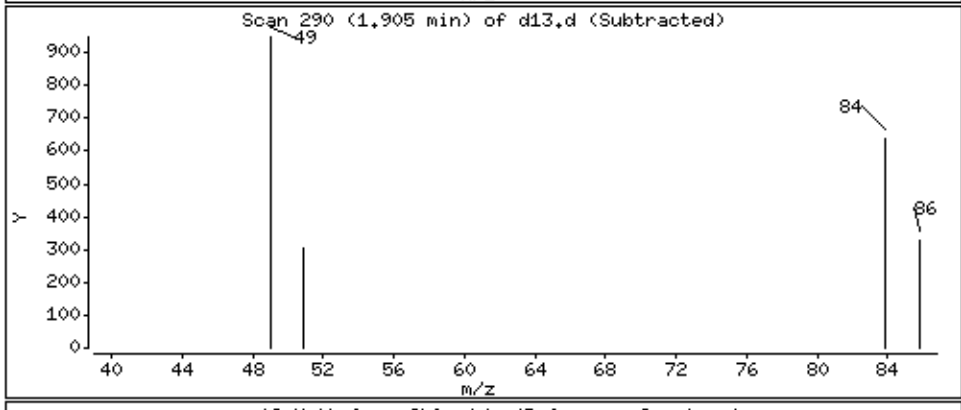
Column diameter: 0.18

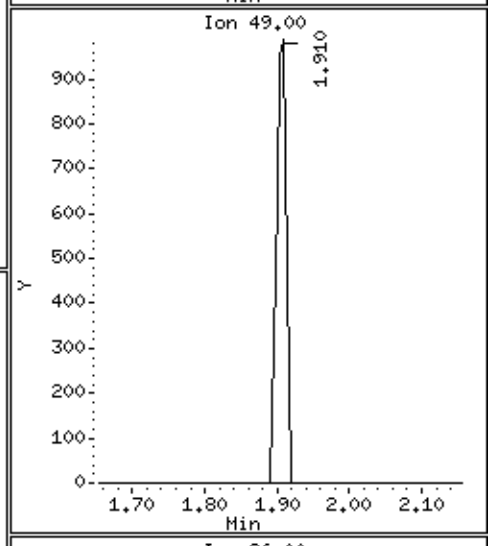
18 Methylene Chloride

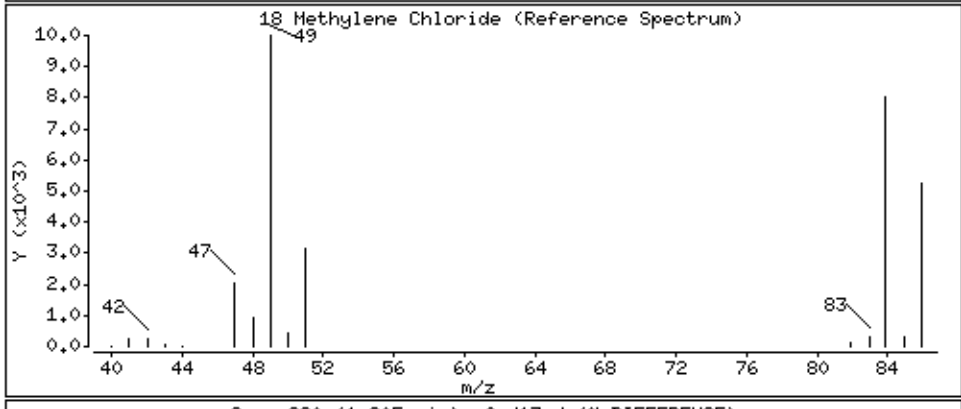
Concentration: 18.4 ppb

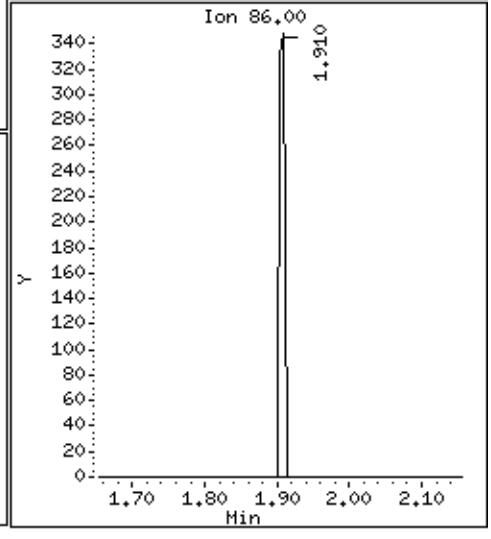


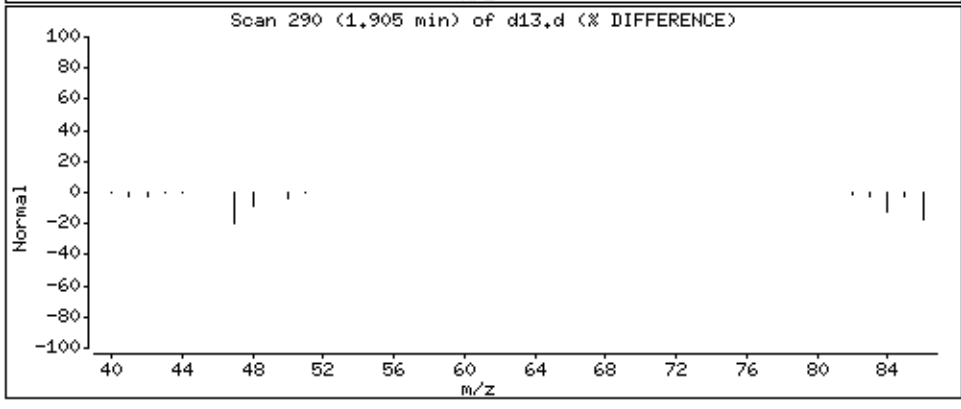












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

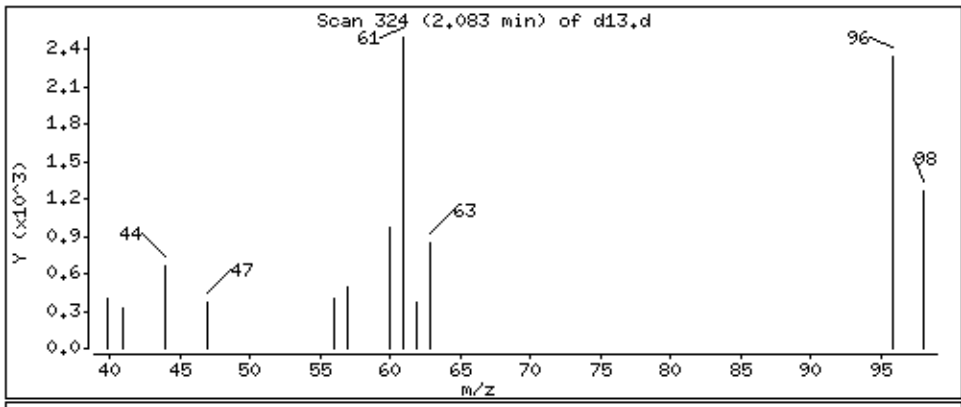
Operator: grm

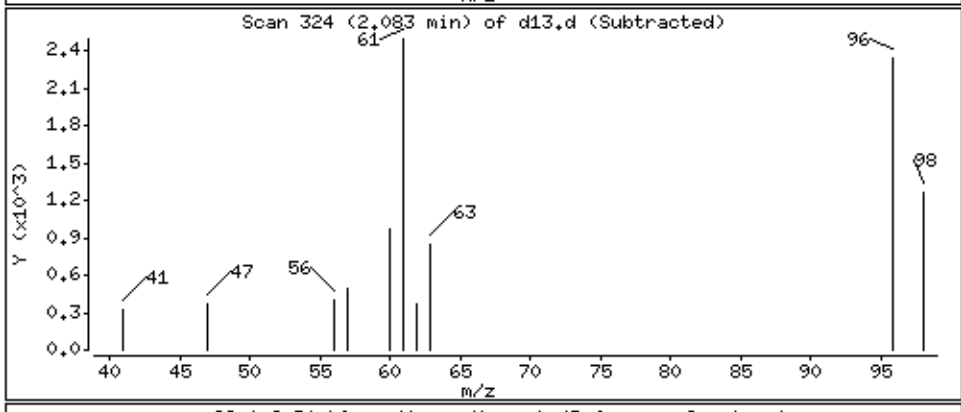
Column phase: DB-624

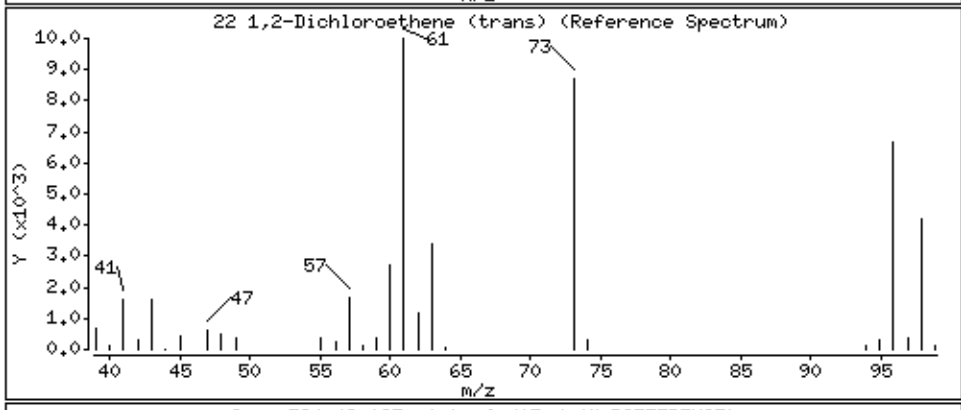
Column diameter: 0.18

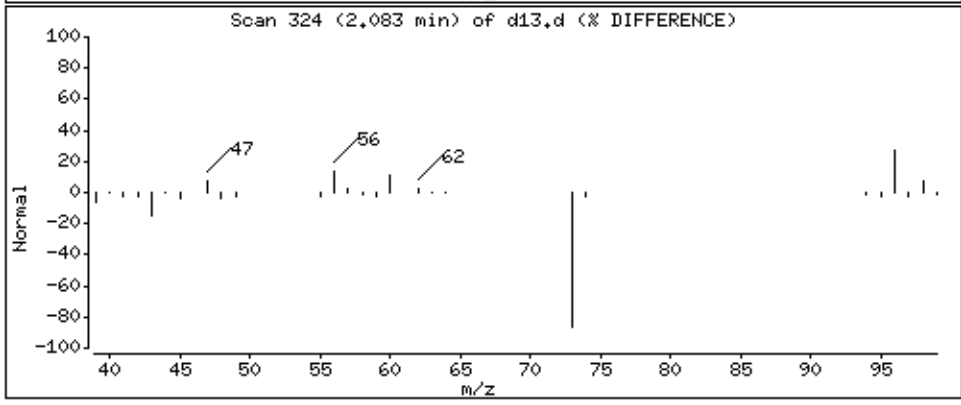
22 1,2-Dichloroethene (trans)

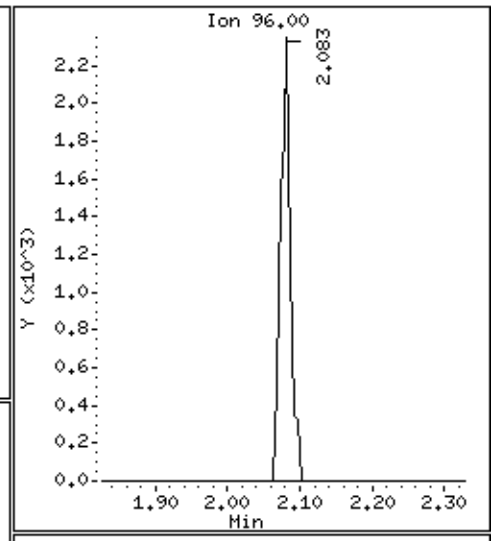
Concentration: 82.8 ppb

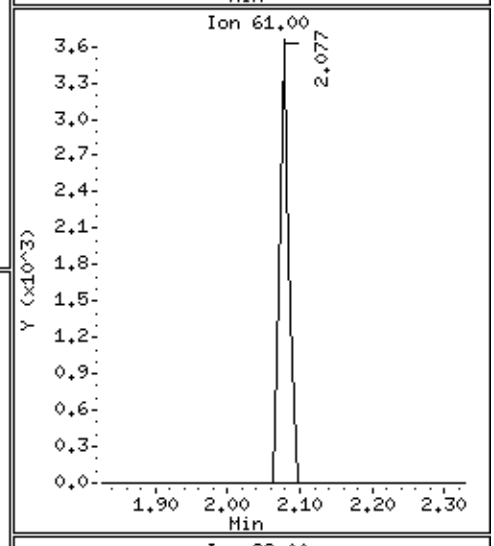


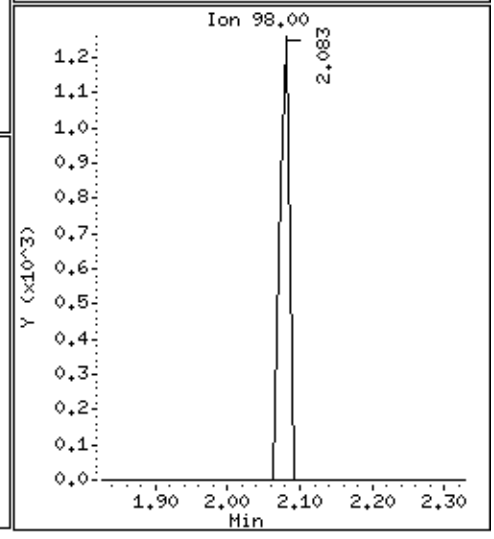












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

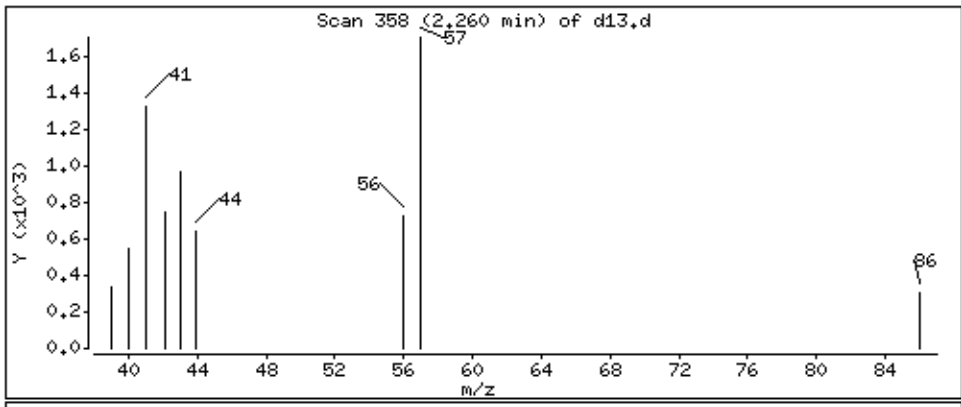
Operator: grm

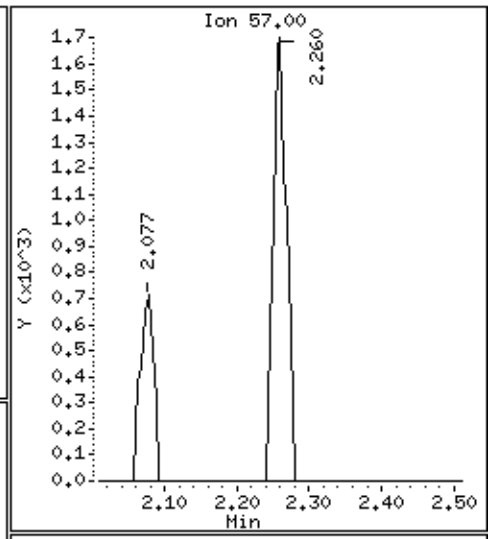
Column phase: DB-624

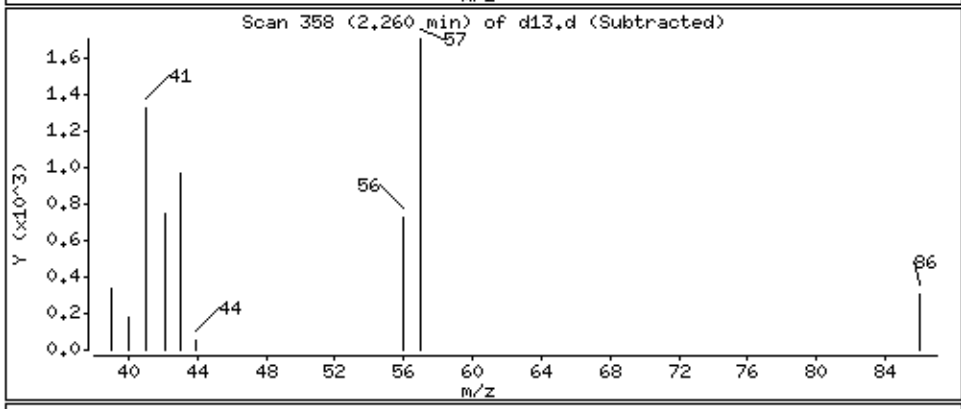
Column diameter: 0.18

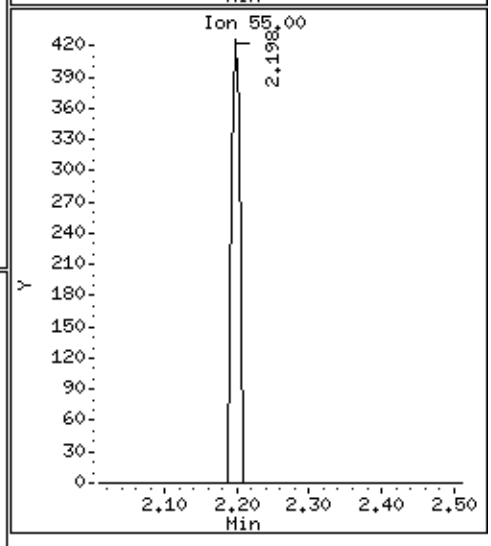
24 n-Hexane

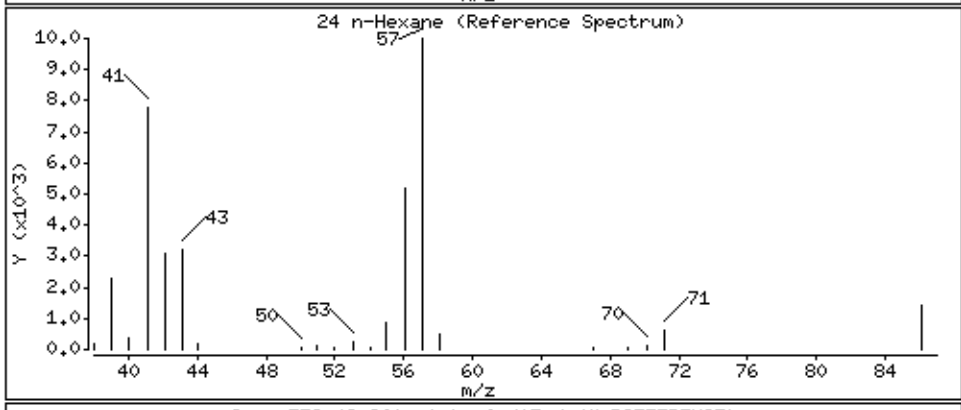
Concentration: 45.3 ppb

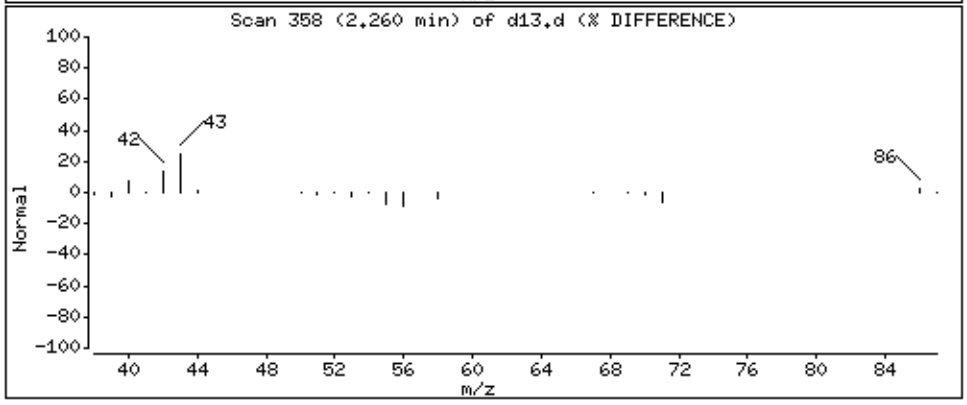












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

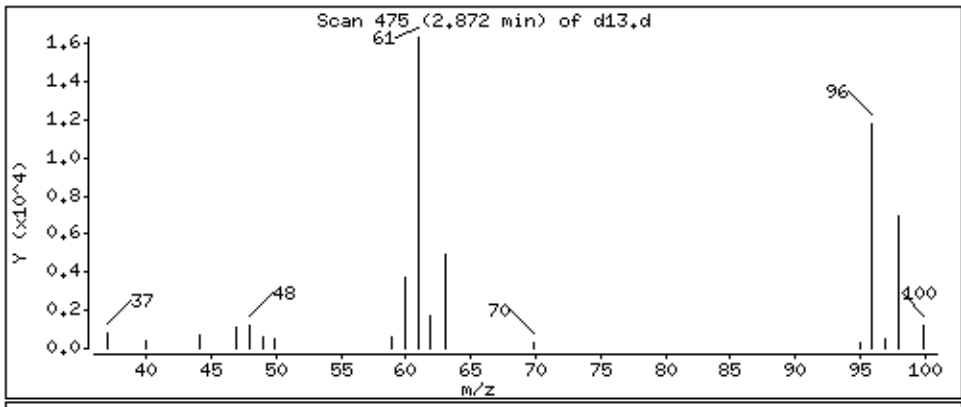
Operator: grm

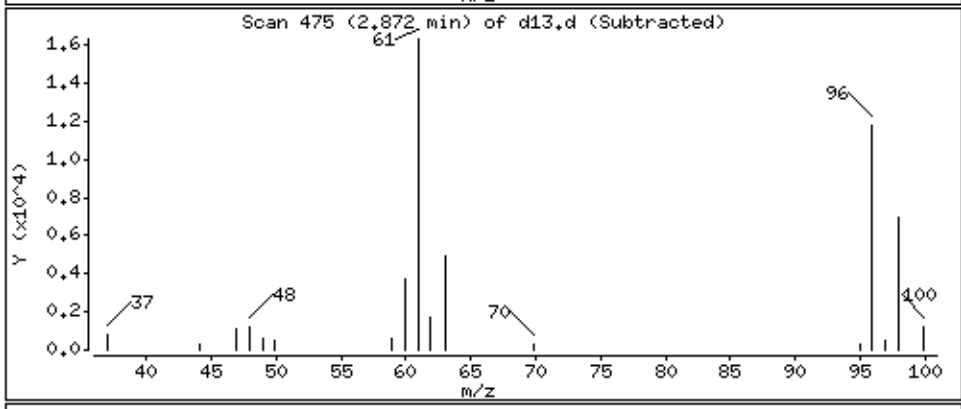
Column phase: DB-624

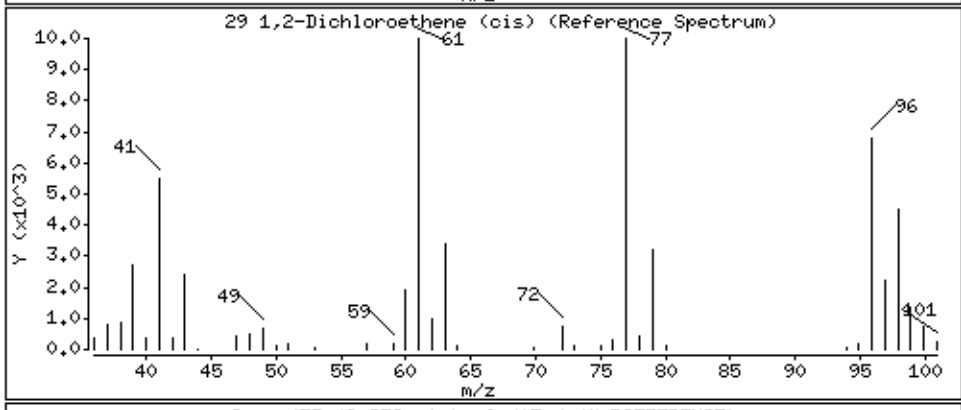
Column diameter: 0.18

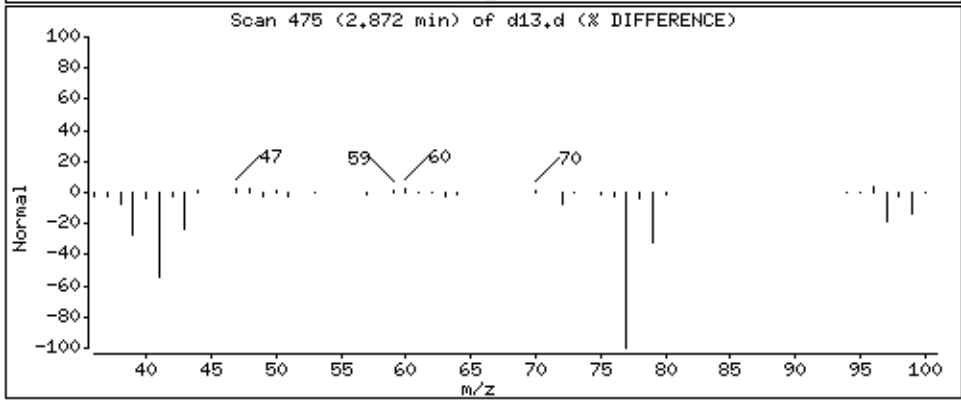
29 1,2-Dichloroethene (cis)

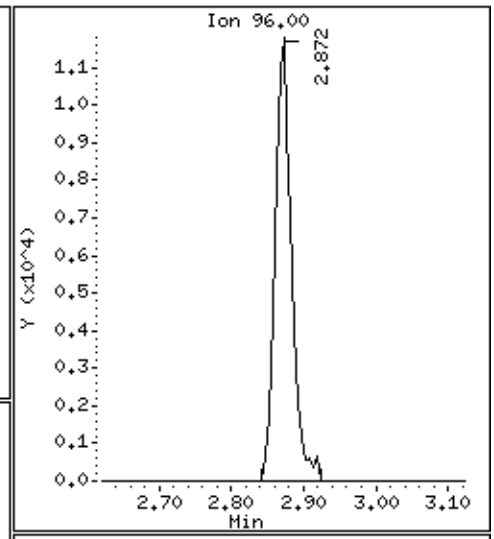
Concentration: 633 ppb

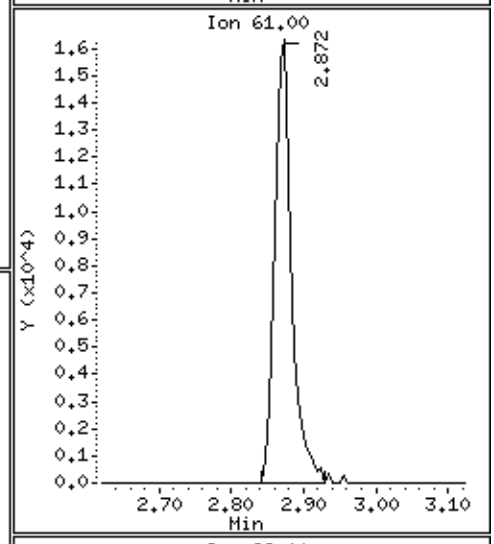


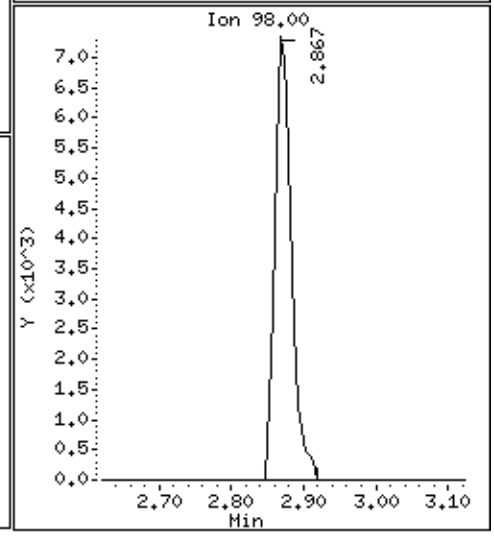












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

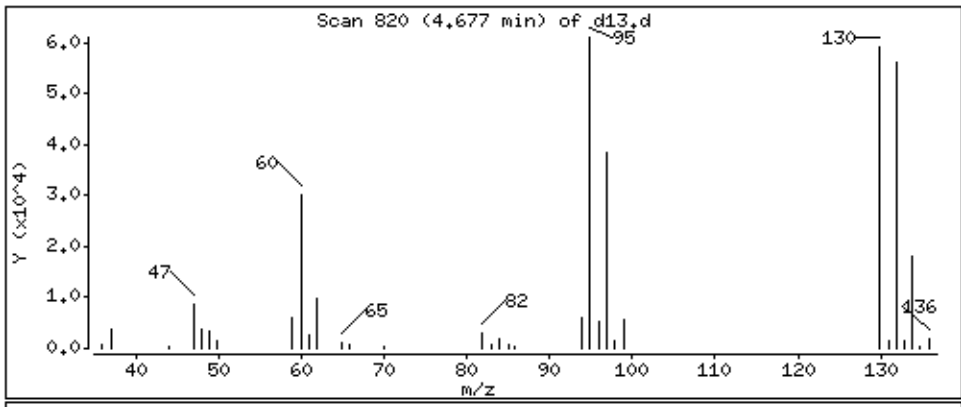
Operator: grm

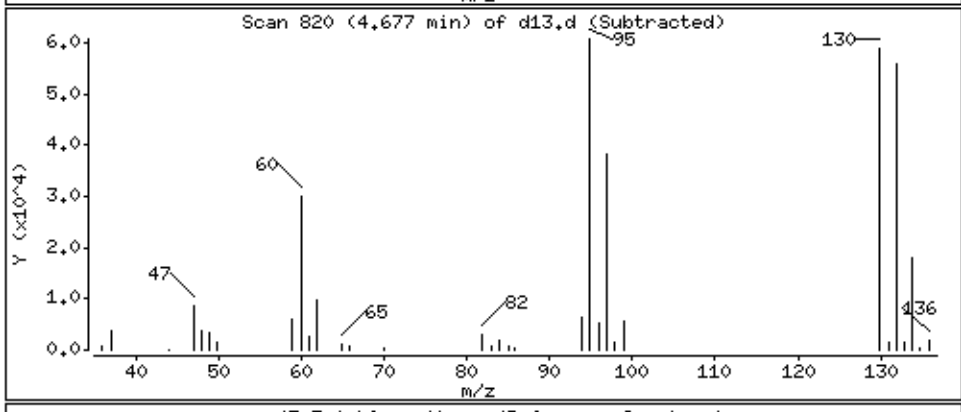
Column phase: DB-624

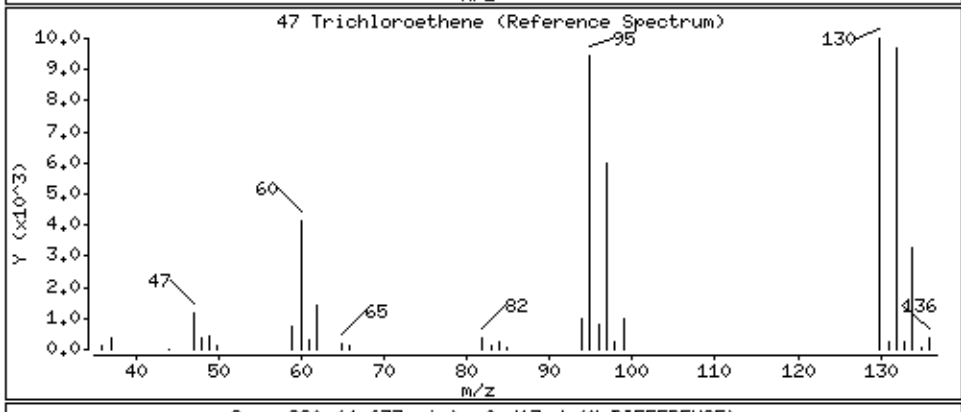
Column diameter: 0.18

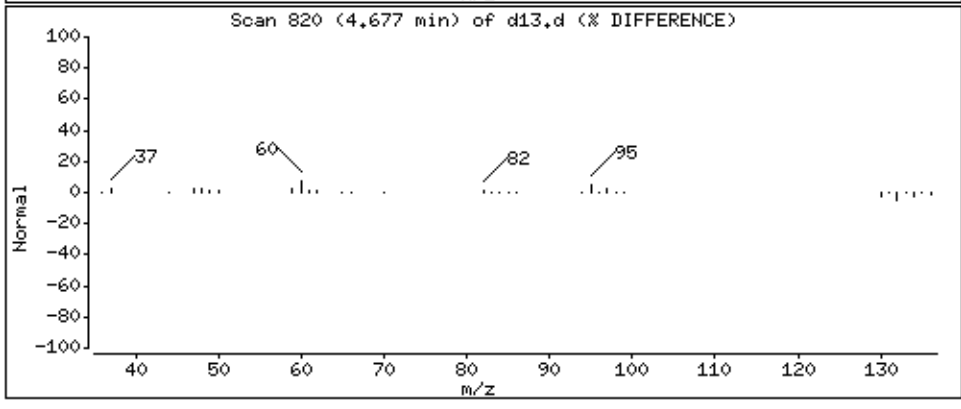
47 Trichloroethene

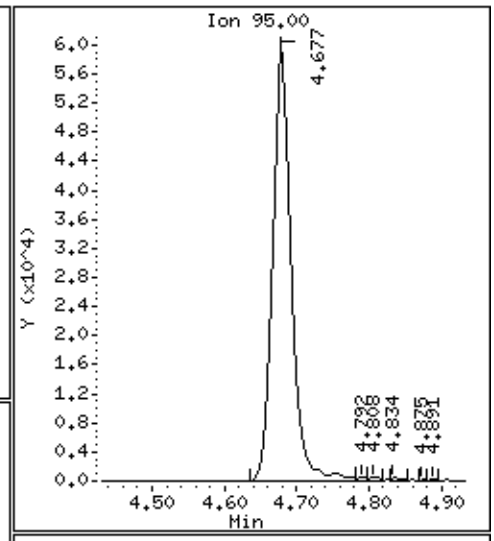
Concentration: 3720 ppb

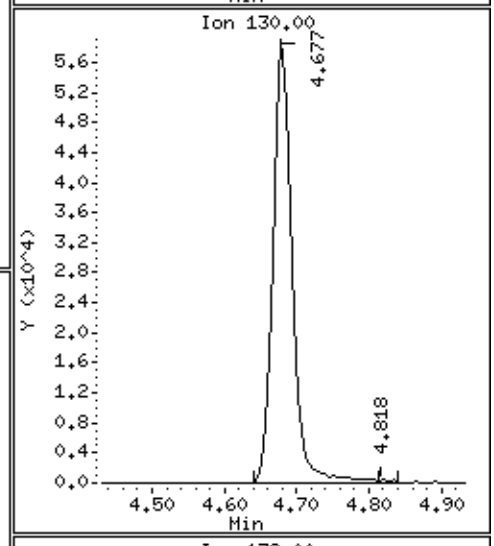


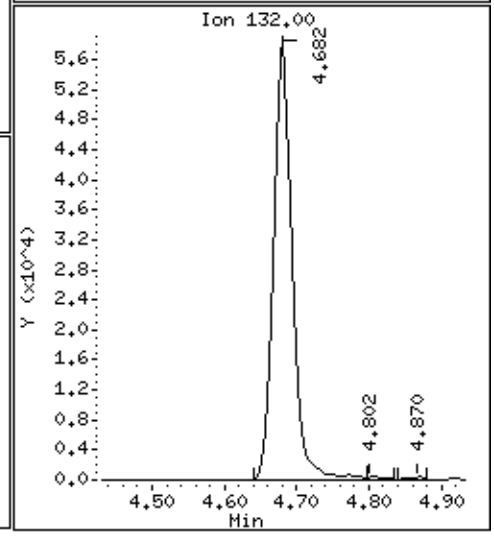












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d13.d

Date : 18-MAR-2016 07:37

Client ID: FD-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212007x50

Purge Volume: 5.0

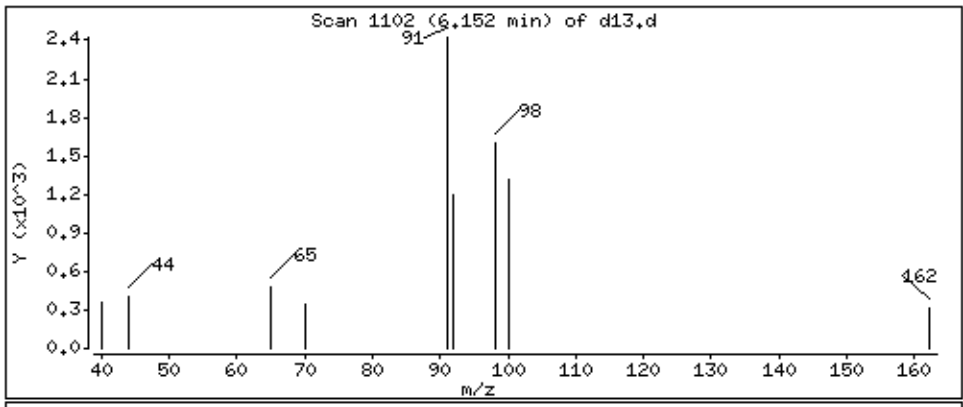
Operator: grm

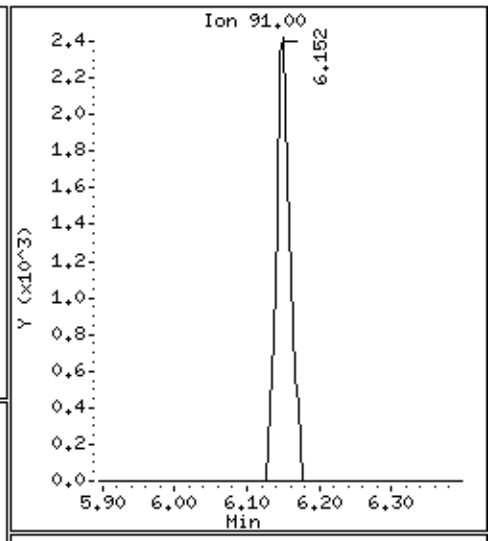
Column phase: DB-624

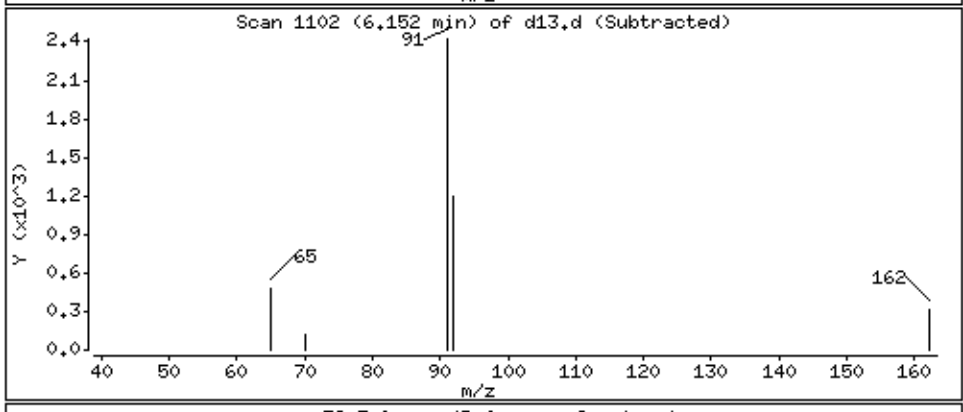
Column diameter: 0.18

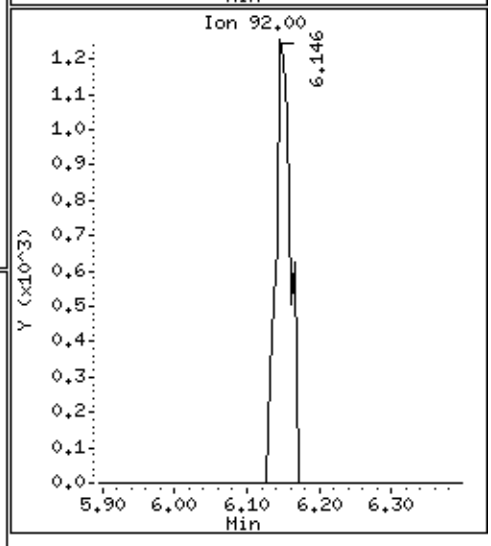
58 Toluene

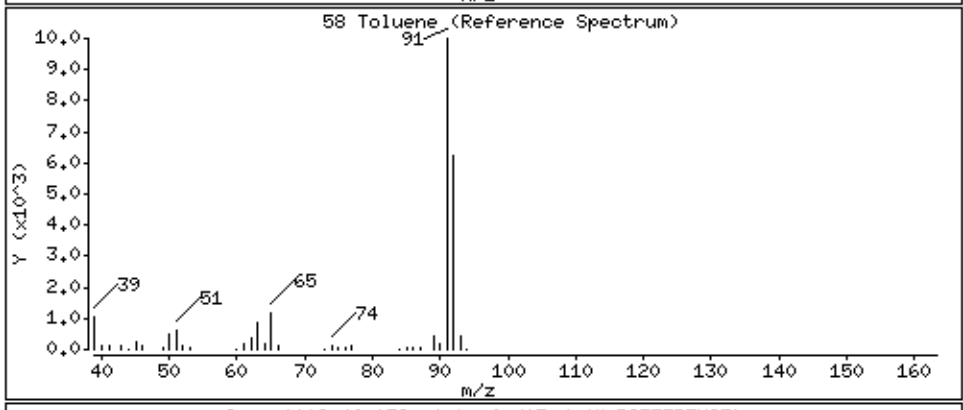
Concentration: 25.4 ppb

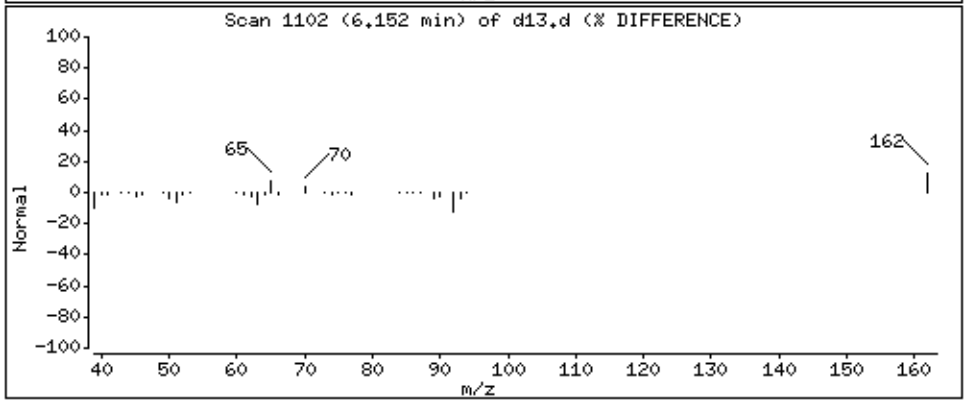












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d13.d
Injection Date: 18-MAR-2016 07:37
Instrument: 50mv1b.i
Lab Sample ID: 50140212007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

EB-01(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 08:12 Lab Sample ID: 50140212008

Date Analyzed: 03/18/2016 08:12 Lab File ID: B031716.B\D14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

EB-01(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 08:12 Lab Sample ID: 50140212008

Date Analyzed: 03/18/2016 08:12 Lab File ID: B031716.B\D14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	16.3	
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d
Lab Smp Id: 50140212008 Client Smp ID: EB-01(030916)
Inj Date : 18-MAR-2016 08:12
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212008
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 87
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.496	1.496	(0.354)	294	0.45040	0.450	
	22 1,2-Dichloroethene (trans)	96	2.076	2.077	(0.491)	537	0.37311	0.373(Q)	
	24 n-Hexane	57	2.260	2.260	(0.534)	2935	1.15952	1.16	
	29 1,2-Dichloroethene (cis)	96	2.871	2.872	(0.679)	3166	2.11245	2.11	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	76602	54.1042	54.1	
*	46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	272648	50.0000		
	47 Trichloroethene	95	4.681	4.682	(1.106)	23787	16.3240	16.3	
$	57 Toluene-d8	98	6.078	6.073	(0.822)	264498	49.7706	49.8	
	58 Toluene	91	6.151	6.146	(0.832)	3138	0.48142	0.481	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	204670	50.0000		
$	76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	97088	52.2553	52.2	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	112243	50.0000		

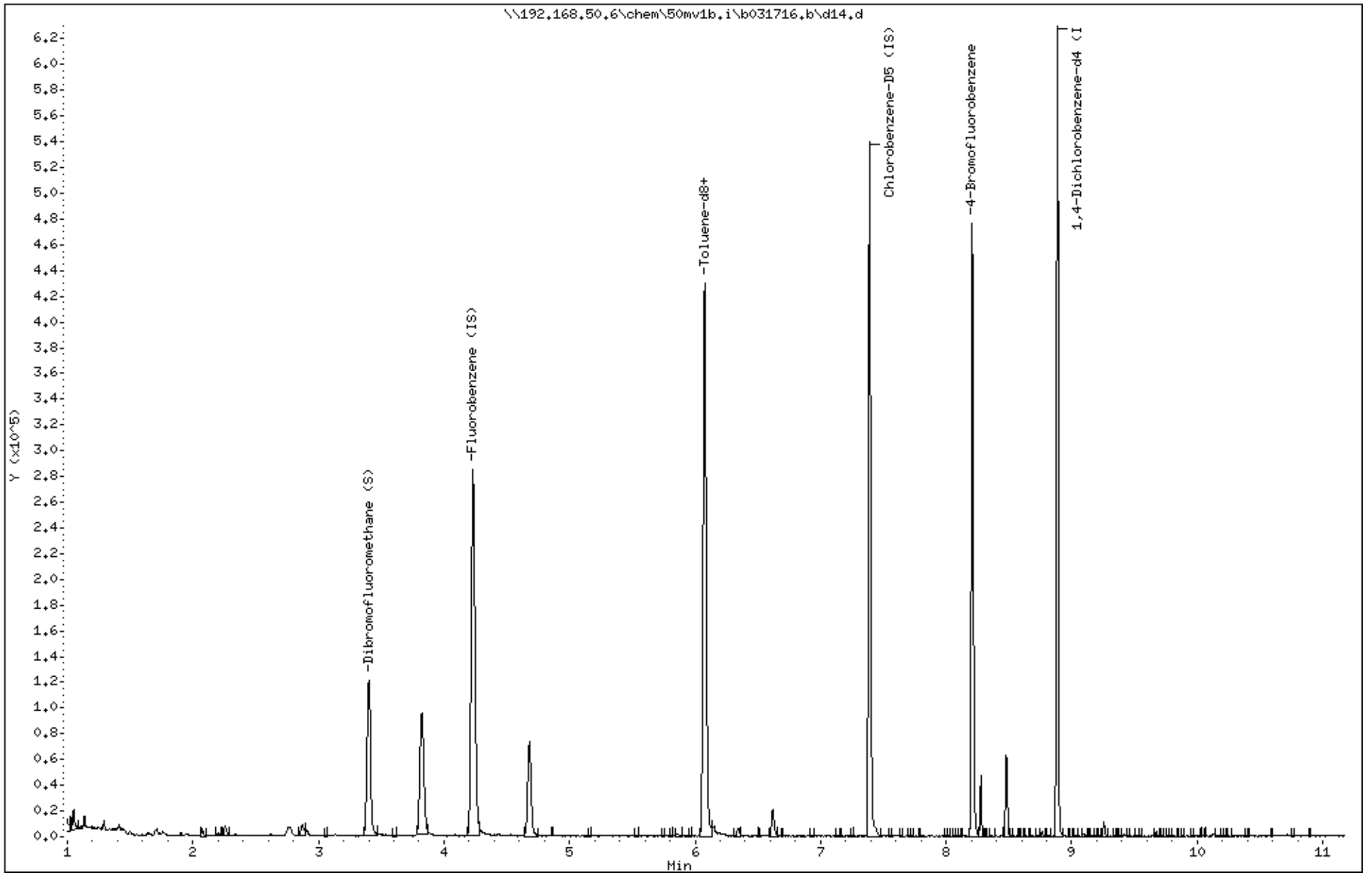
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d
Date : 18-MAR-2016 08:12
Client ID: EB-01(030916)
Instrument: 50mv1b.i
Sample Info: 50140212008
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

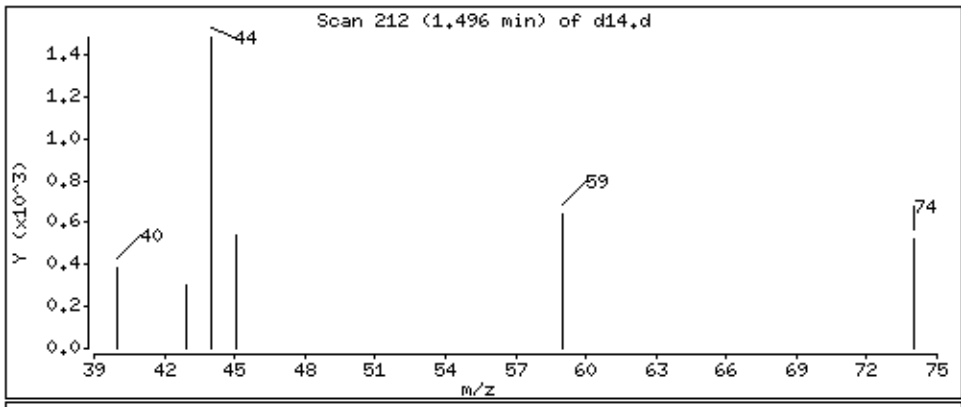
Operator: grm

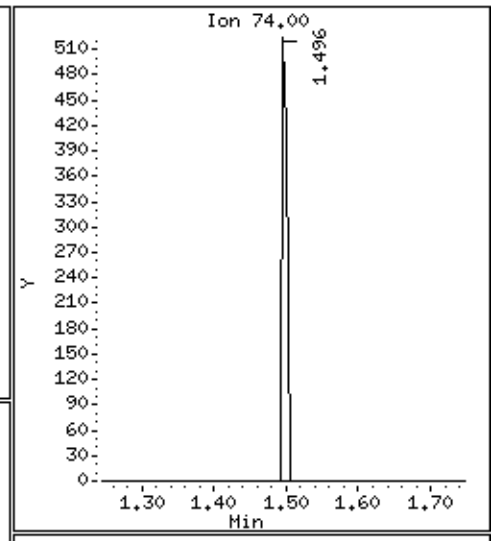
Column phase: DB-624

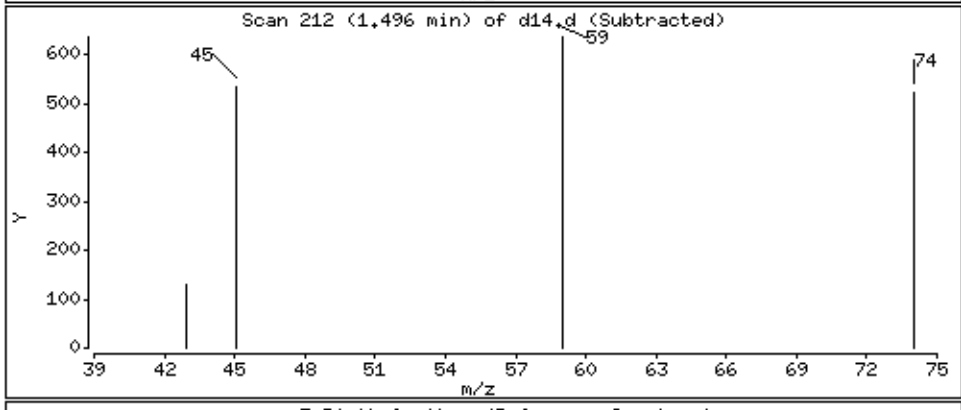
Column diameter: 0.18

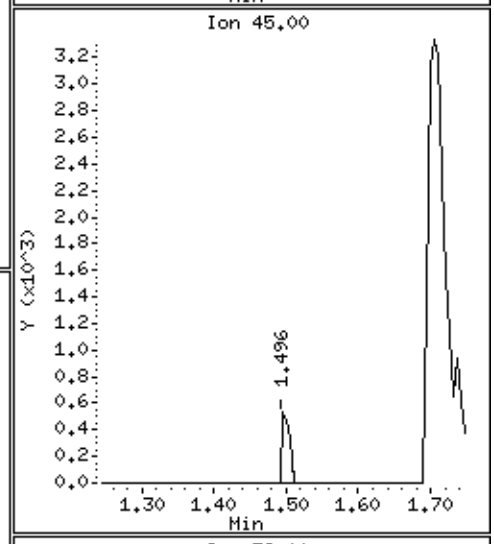
7 Diethyl ether

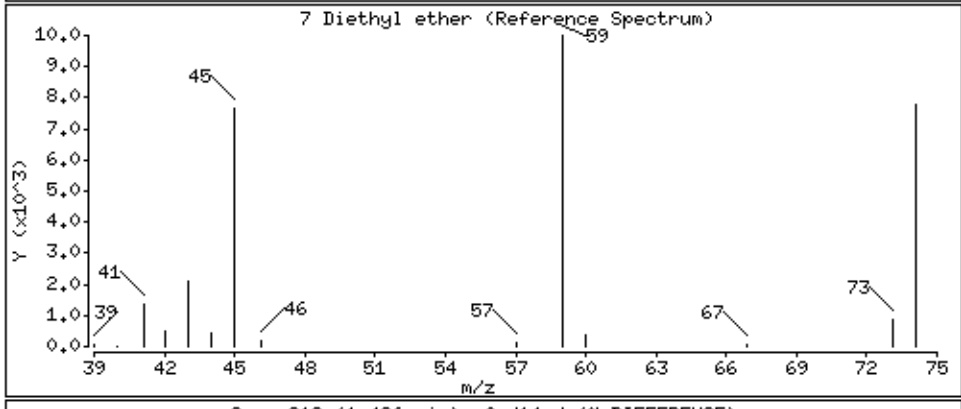
Concentration: 0.450 ppb

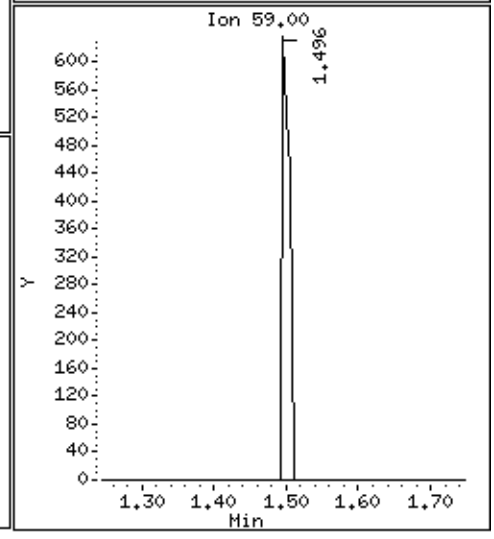


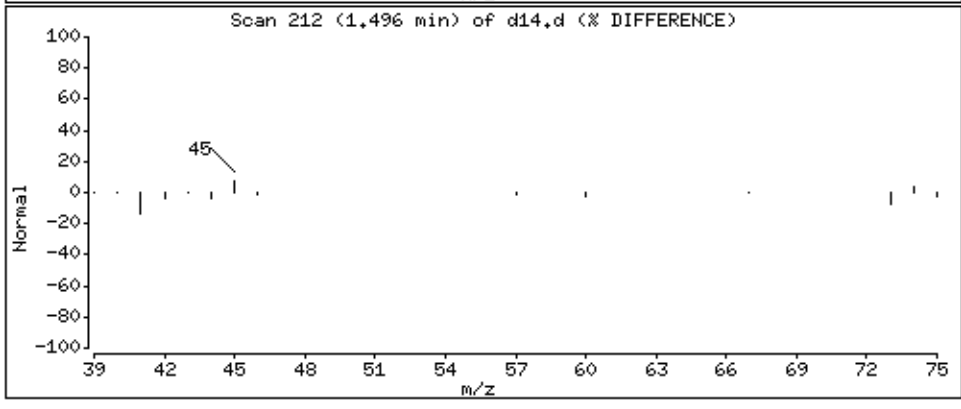












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

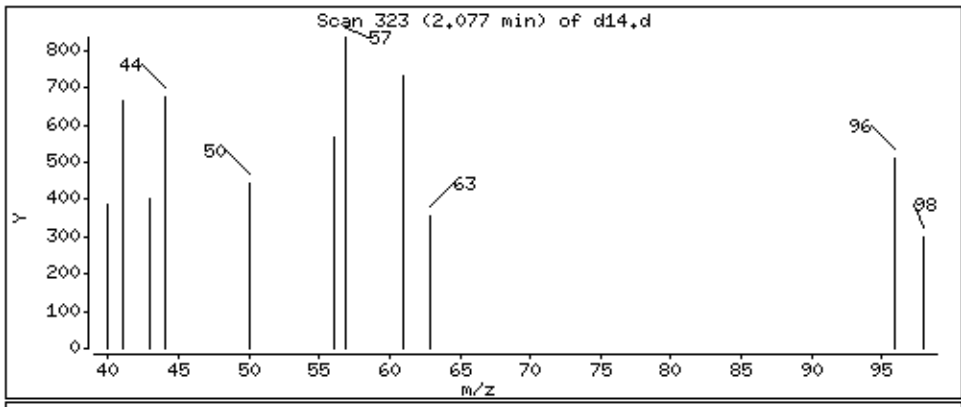
Operator: grm

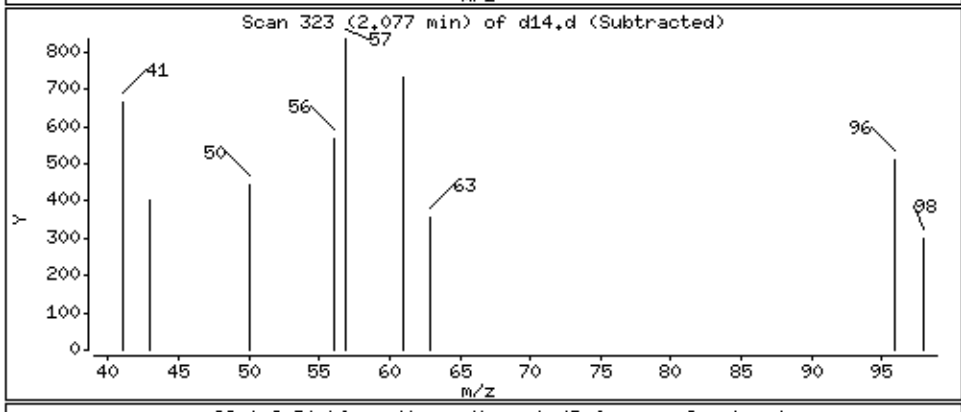
Column phase: DB-624

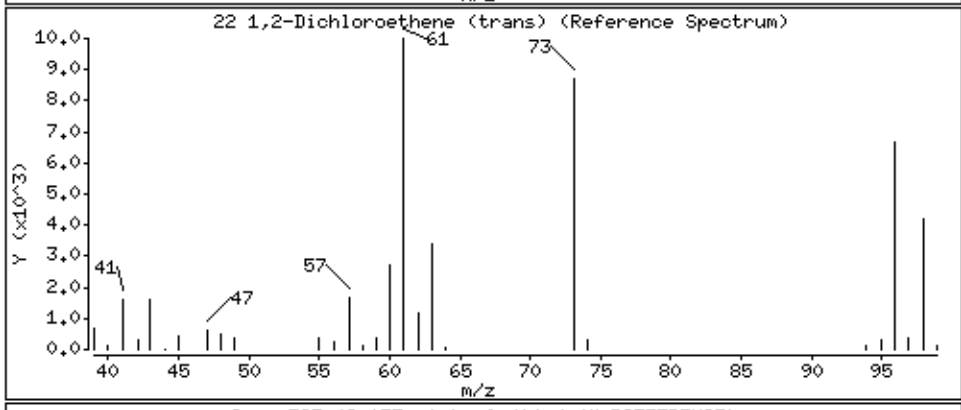
Column diameter: 0.18

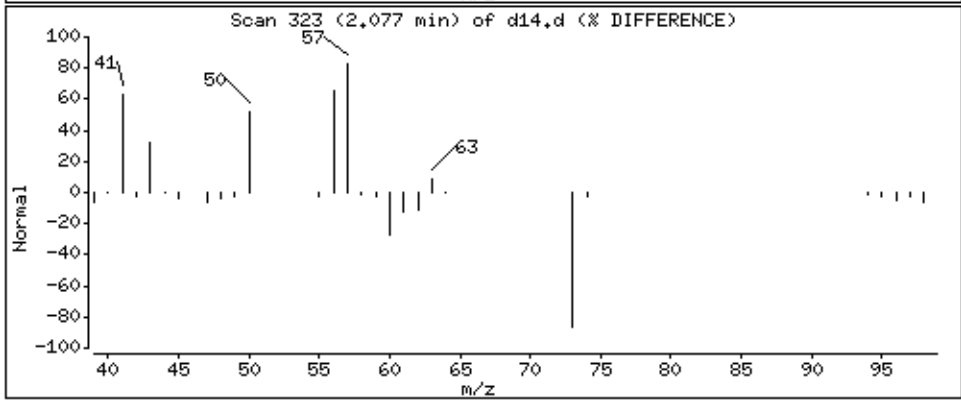
22 1,2-Dichloroethene (trans)

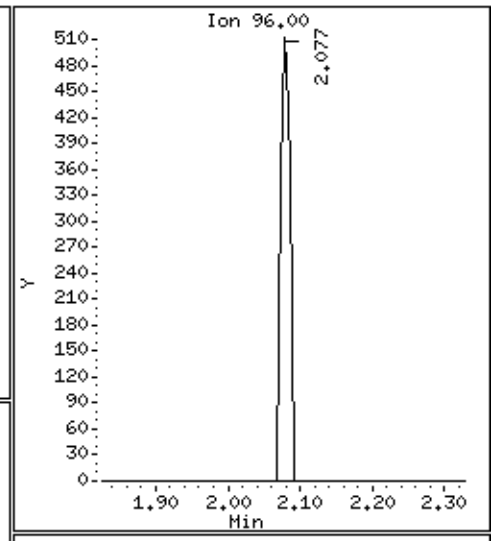
Concentration: 0.373 ppb

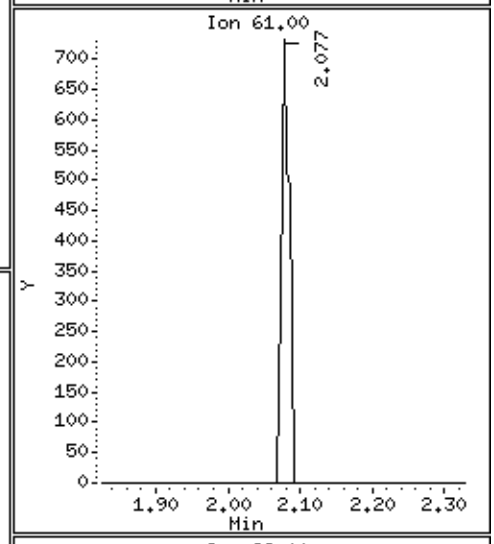


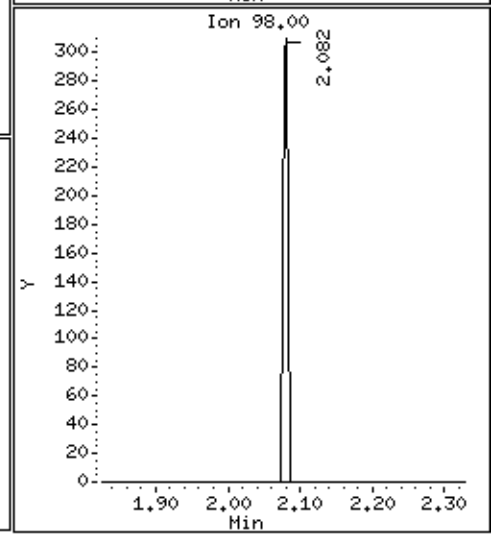












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

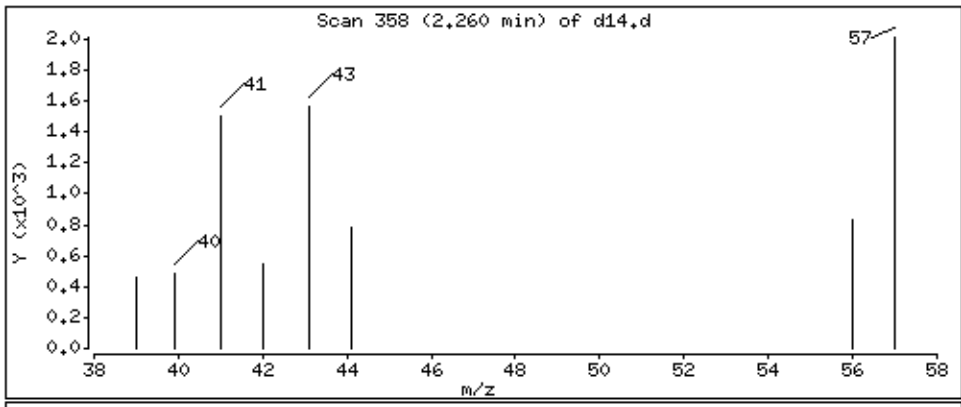
Operator: grm

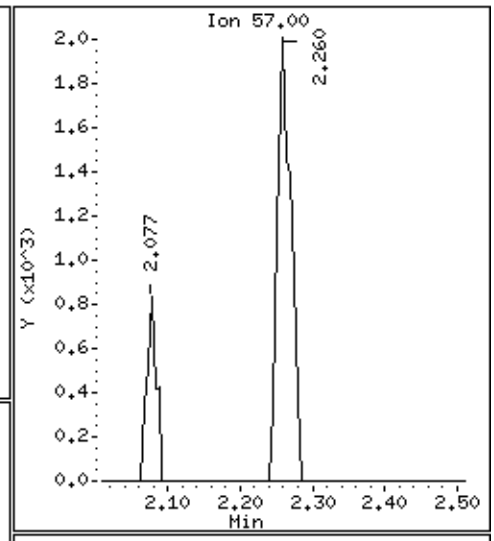
Column phase: DB-624

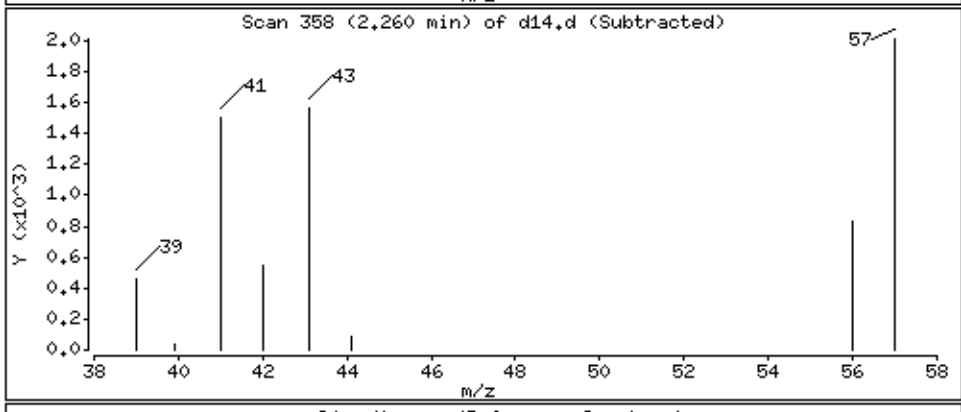
Column diameter: 0.18

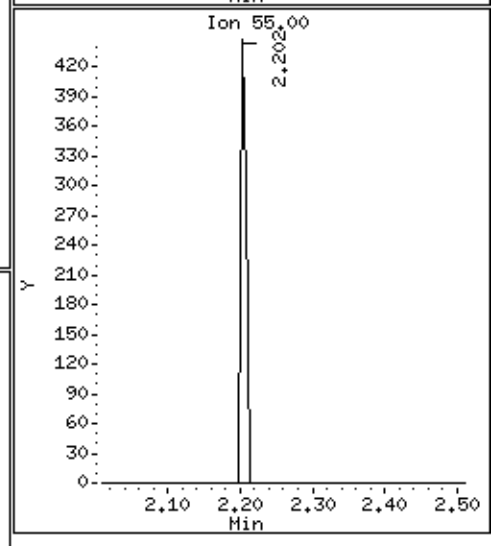
24 n-Hexane

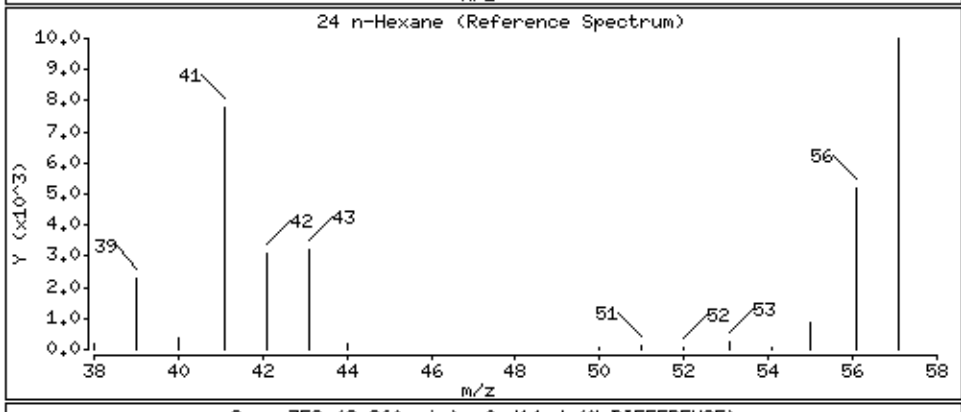
Concentration: 1.16 ppb

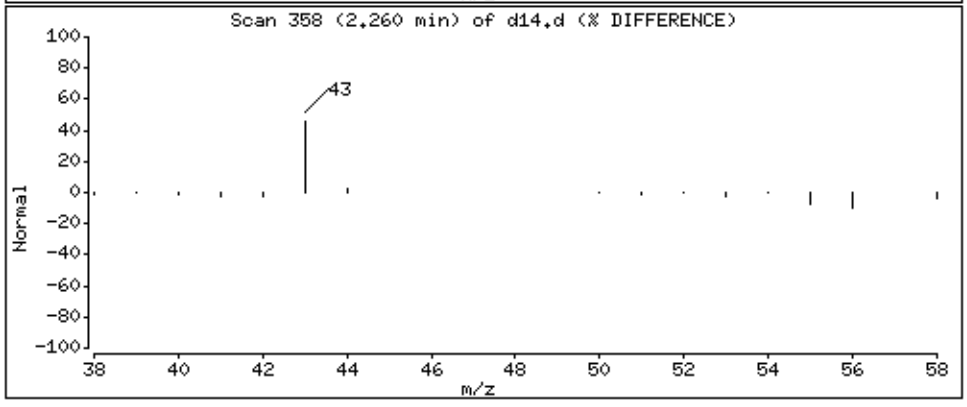












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

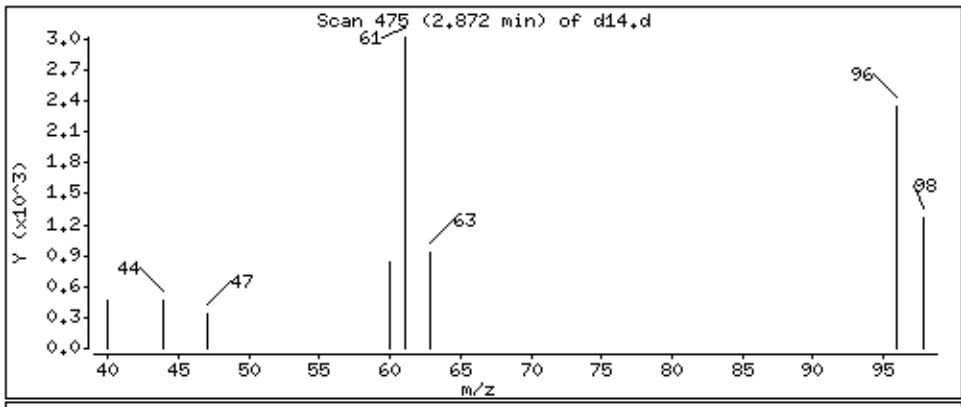
Operator: grm

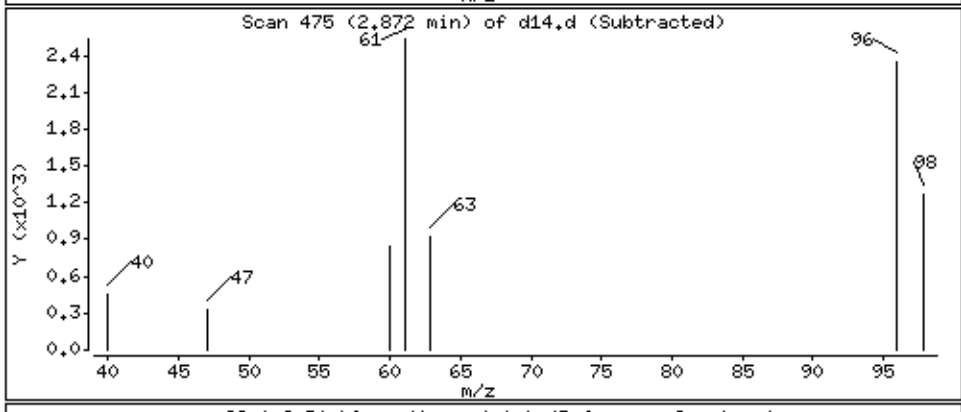
Column phase: DB-624

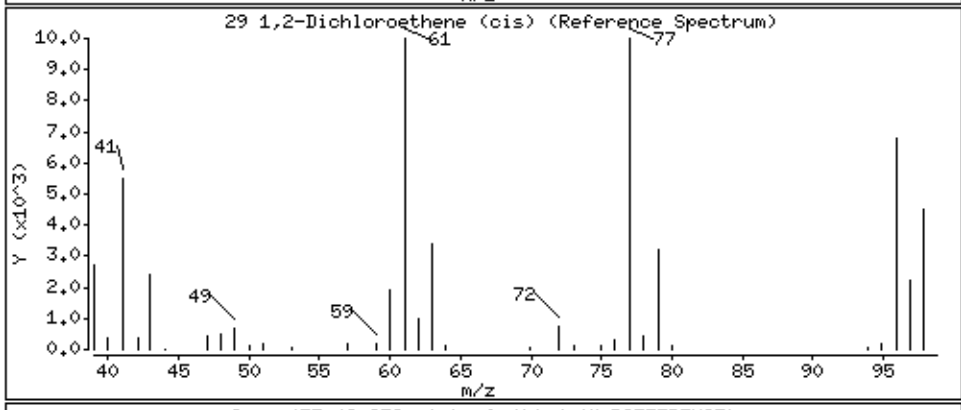
Column diameter: 0.18

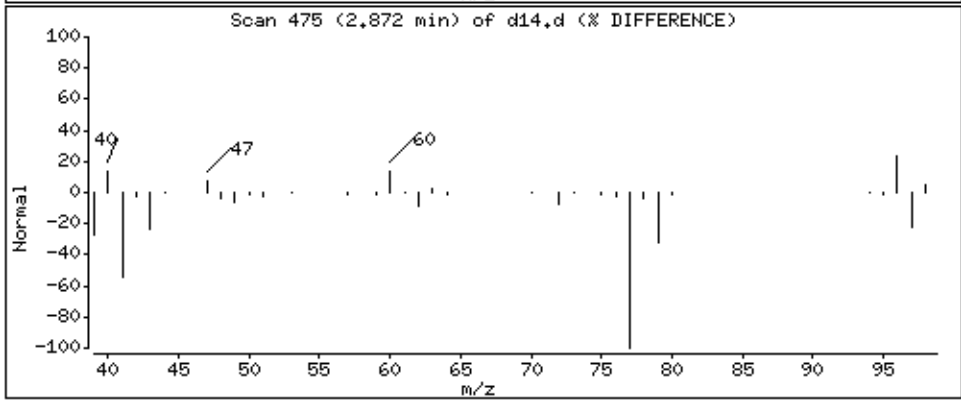
29 1,2-Dichloroethene (cis)

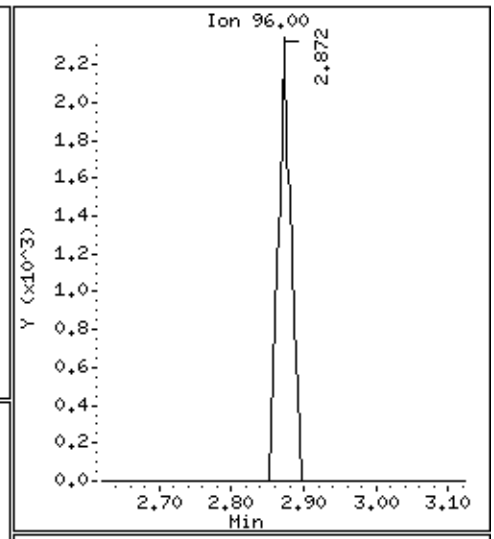
Concentration: 2.11 ppb

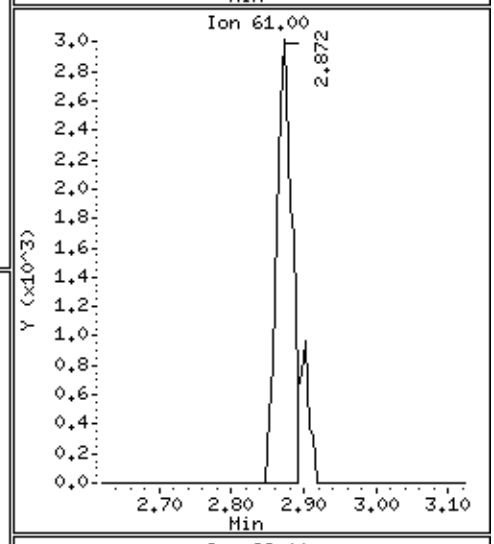


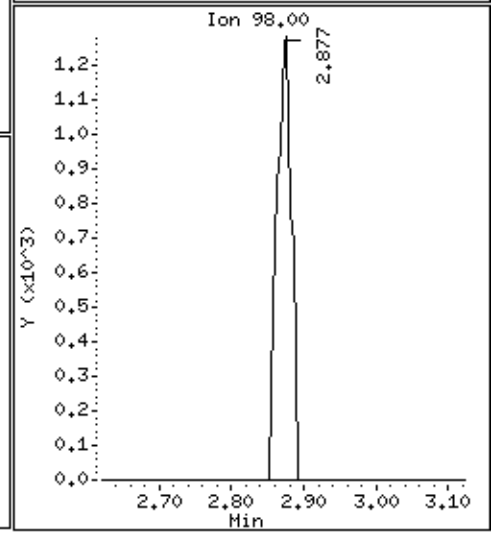












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

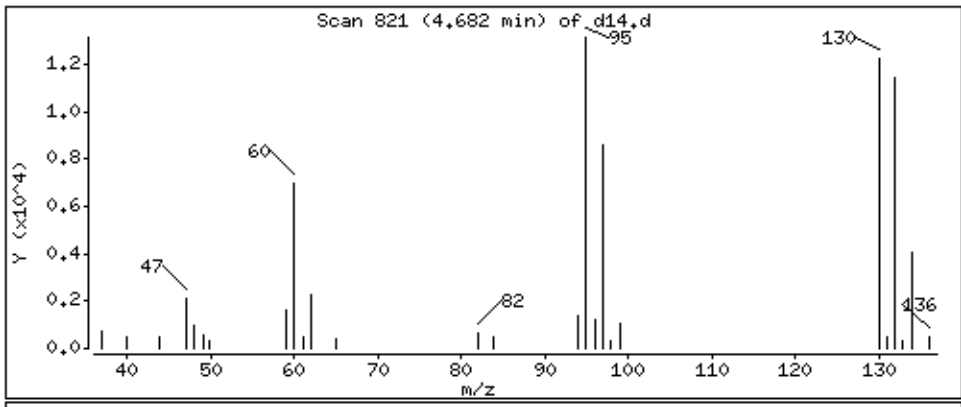
Operator: grm

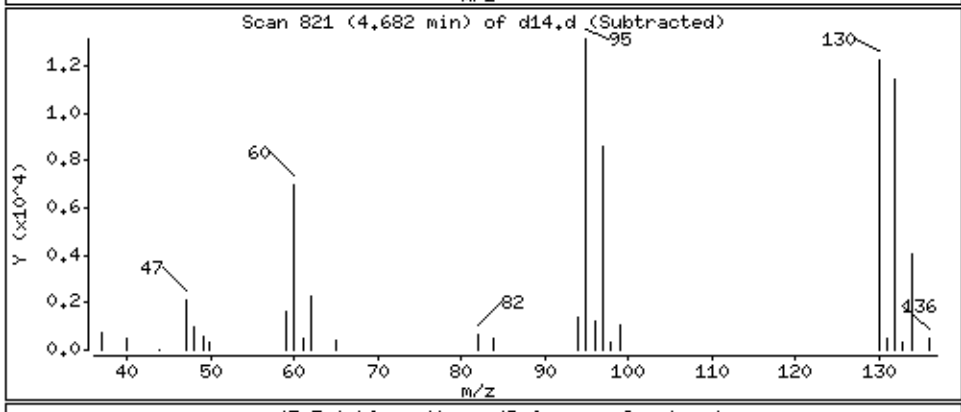
Column phase: DB-624

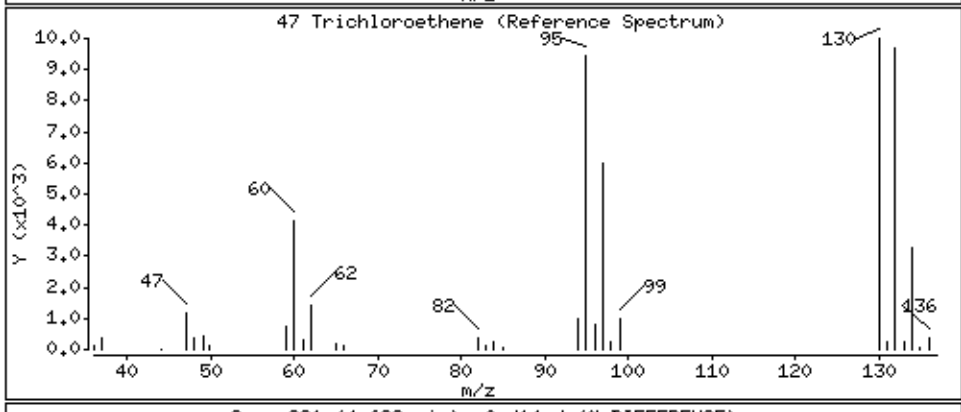
Column diameter: 0.18

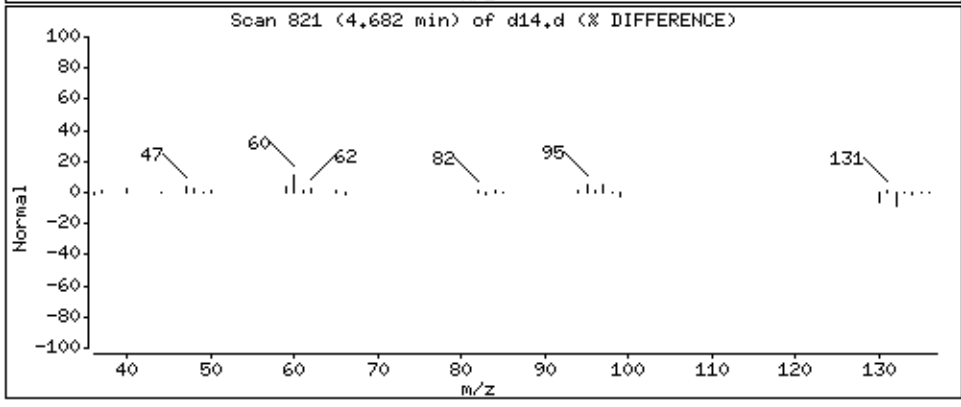
47 Trichloroethene

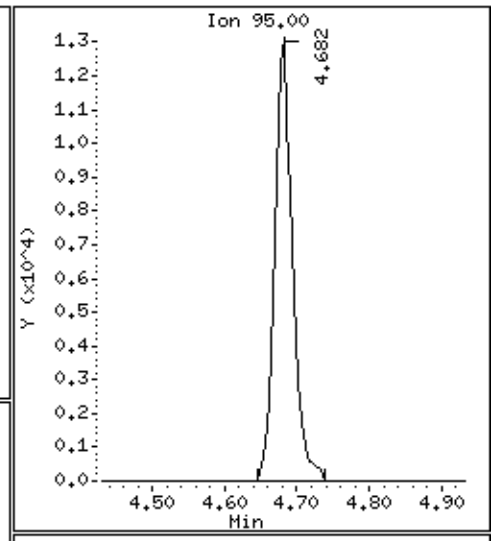
Concentration: 16.3 ppb

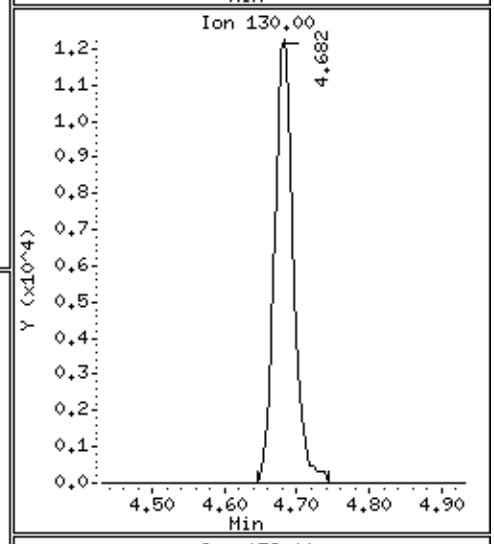


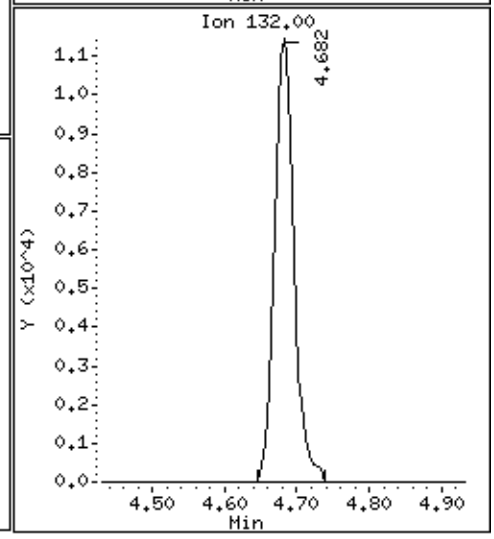












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d14.d

Date : 18-MAR-2016 08:12

Client ID: EB-01(030916)

Instrument: 50mv1b.i

Sample Info: 50140212008

Purge Volume: 5.0

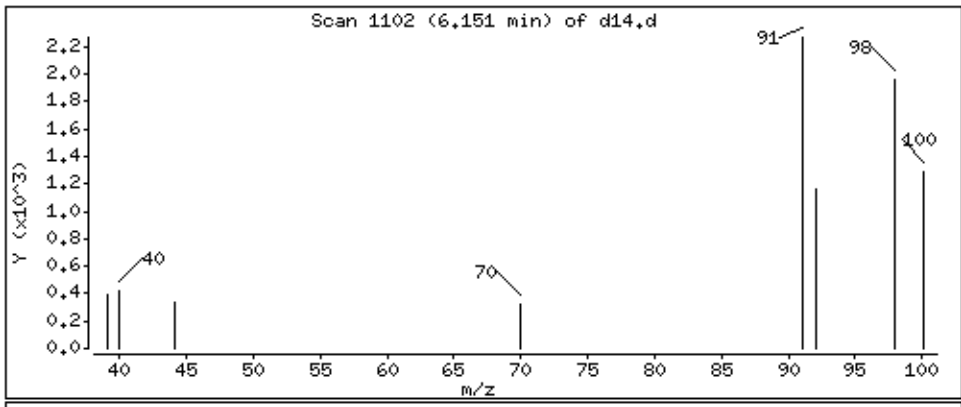
Operator: grm

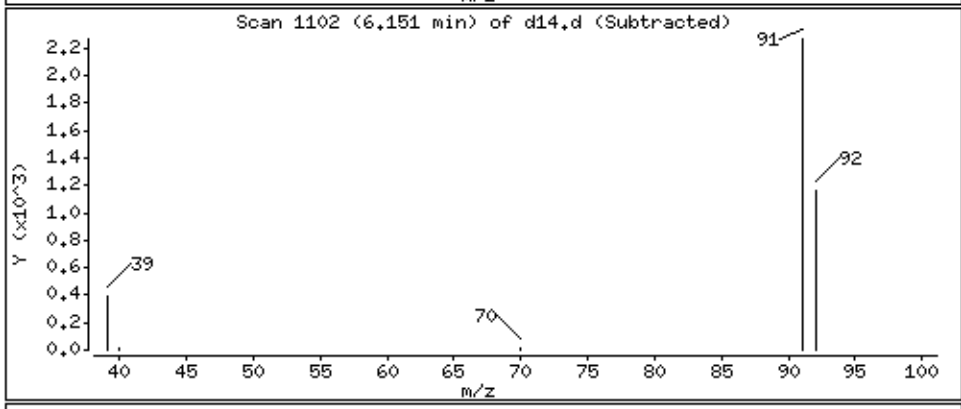
Column phase: DB-624

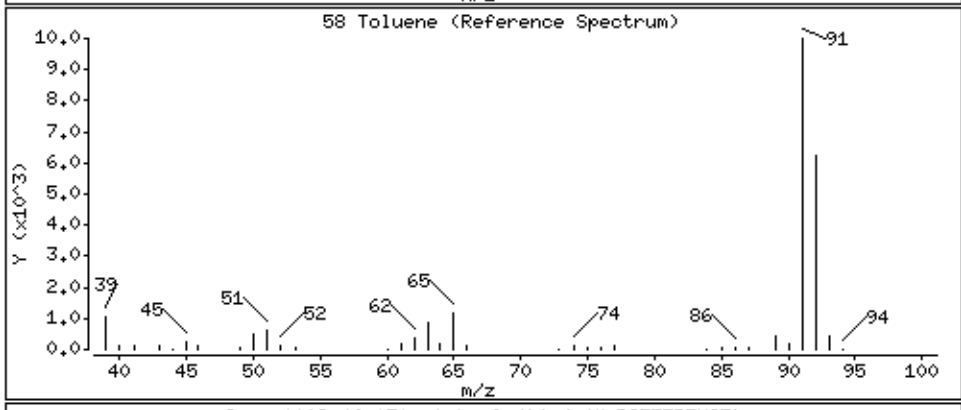
Column diameter: 0.18

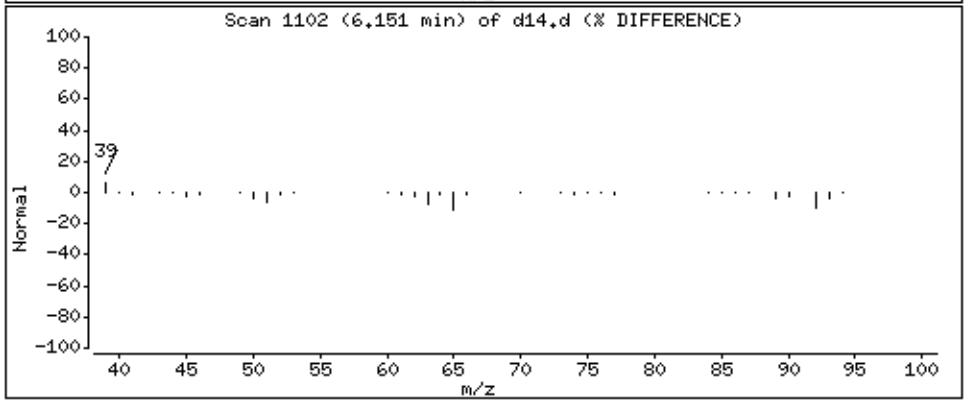
58 Toluene

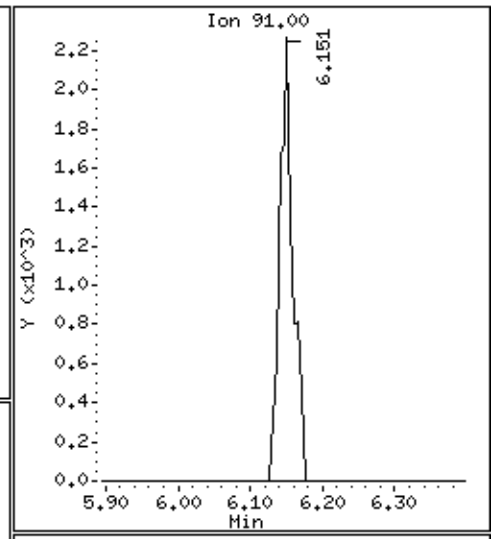
Concentration: 0.481 ppb

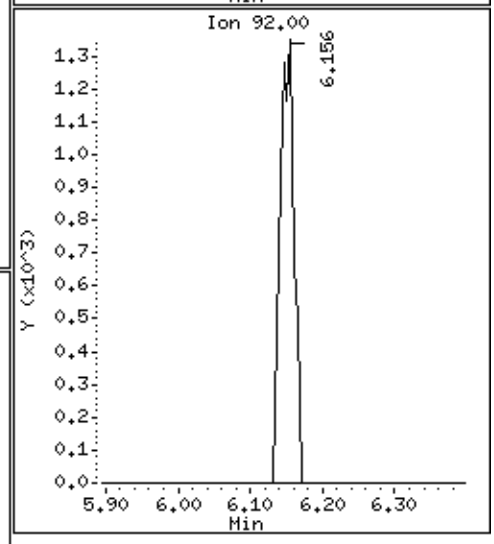












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d14.d
Injection Date: 18-MAR-2016 08:12
Instrument: 50mv1b.i
Lab Sample ID: 50140212008
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0704-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 08:47 Lab Sample ID: 50140212009

Date Analyzed: 03/18/2016 08:47 Lab File ID: B031716.B\D15.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	660	
156-60-5	trans-1,2-Dichloroethene	89.5	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0704-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 08:47 Lab Sample ID: 50140212009

Date Analyzed: 03/18/2016 08:47 Lab File ID: B031716.B\D15.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d
Lab Smp Id: 50140212009 Client Smp ID: MW-0704-S1(030916)
Inj Date : 18-MAR-2016 08:47
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212009x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 88
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.032	1.015	(0.244)	2557	0.72721	3.64	
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	1647	0.60998	3.05	
	7 Diethyl ether	74	1.502	1.496	(0.355)	457	0.64843	3.24(Q)	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	847	0.50392	2.52	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	27815	17.8993	89.5	
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.679)	213732	132.081	660	
$	38 Dibromofluoromethane (S)	113	3.401	3.400	(0.804)	80900	52.9216	52.9	
*	46 Fluorobenzene (IS)	96	4.233	4.232	(1.000)	294380	50.0000		
	47 Trichloroethene	95	4.682	4.682	(1.106)	542081	344.545	1720	
$	57 Toluene-d8	98	6.074	6.073	(0.822)	278454	49.2541	49.2	
	58 Toluene	91	6.152	6.146	(0.832)	3247	0.46826	2.34	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.391	(1.000)	217729	50.0000		
$	76 4-Bromofluorobenzene	95	8.208	8.207	(1.110)	103482	52.3562	52.4	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	114168	50.0000		

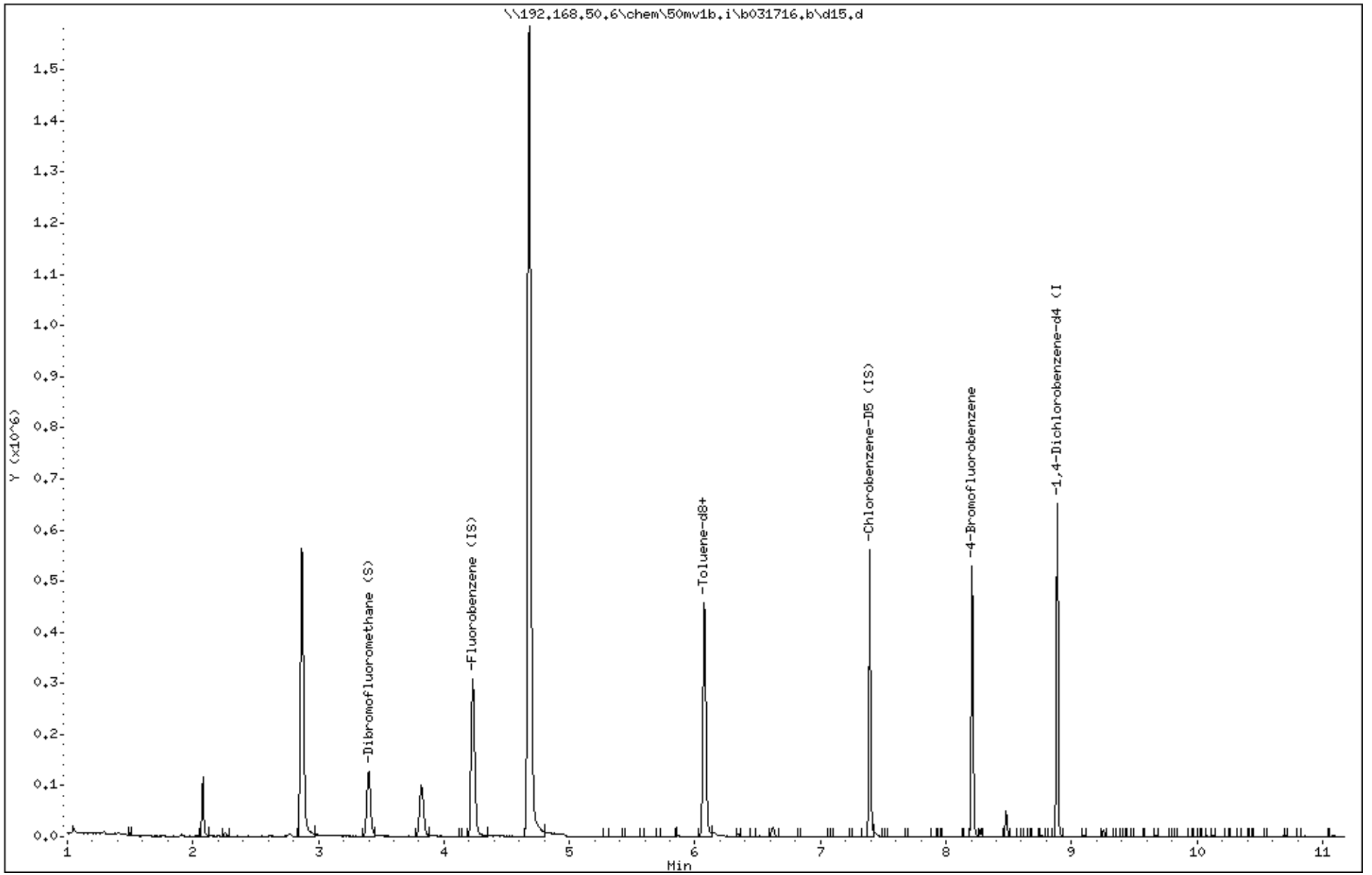
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d
Date : 18-MAR-2016 08:47
Client ID: MW-0704-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212009x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

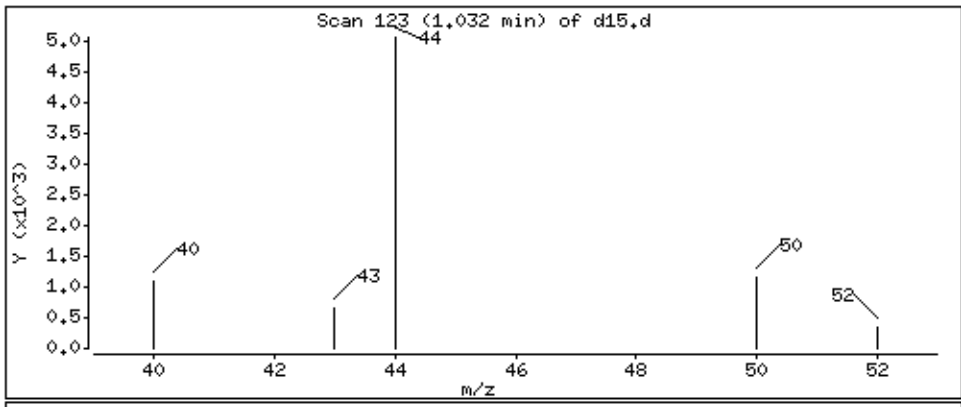
Operator: grm

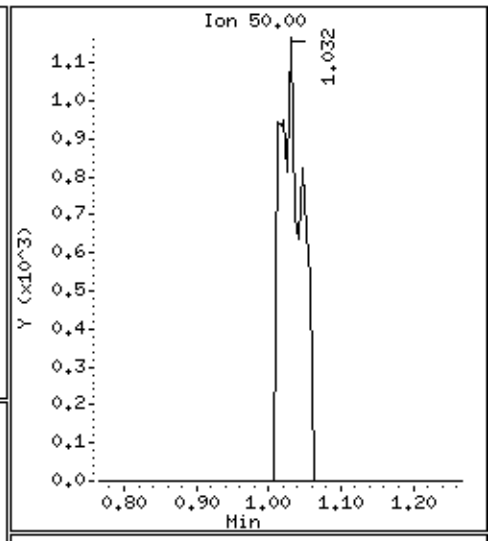
Column phase: DB-624

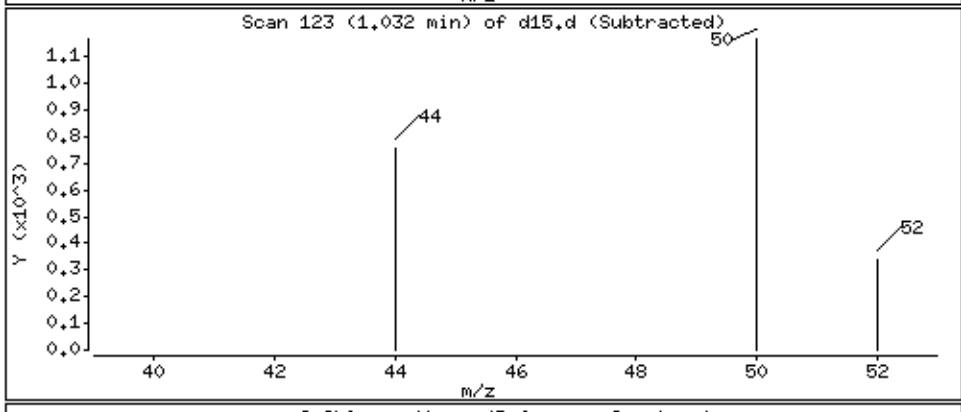
Column diameter: 0.18

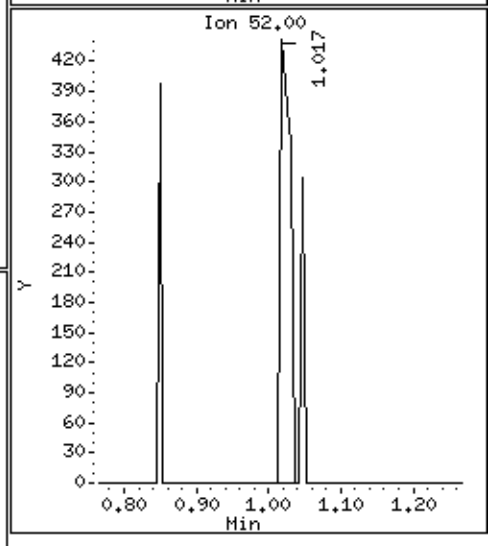
2 Chloromethane

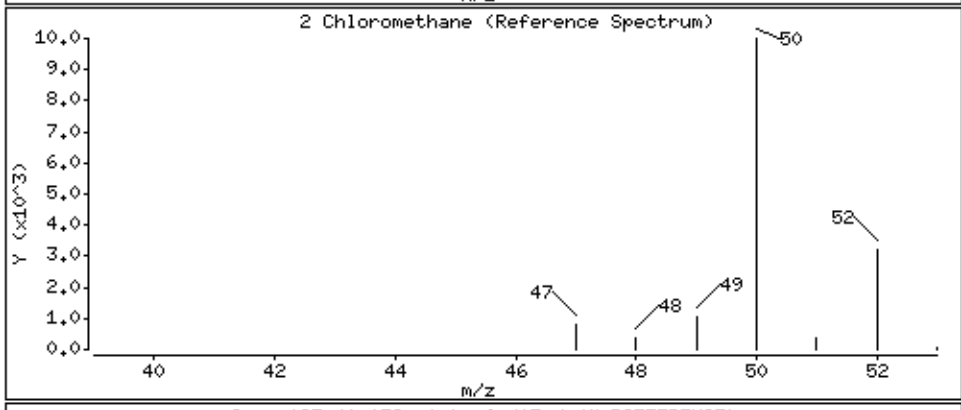
Concentration: 3.64 ppb

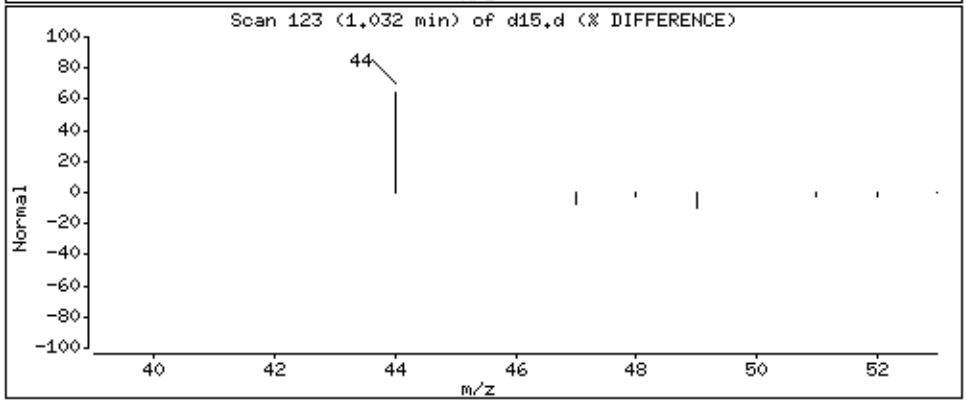












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

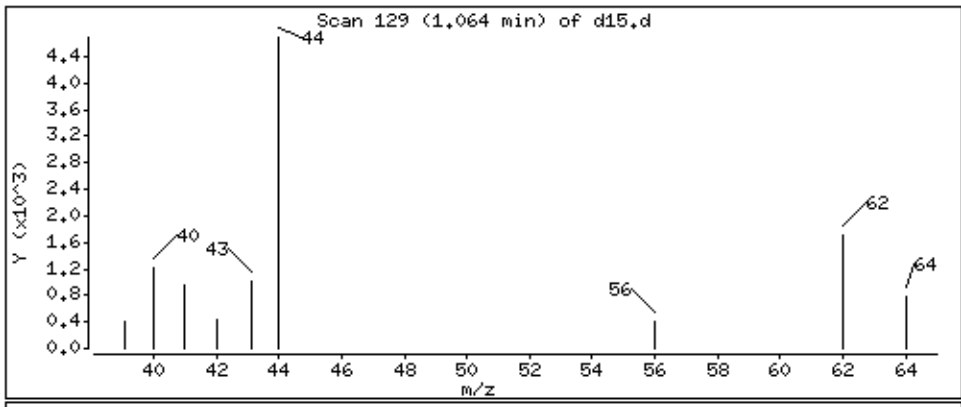
Operator: grm

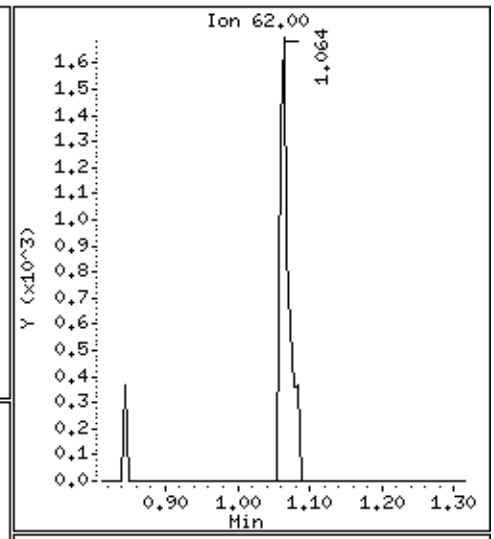
Column phase: DB-624

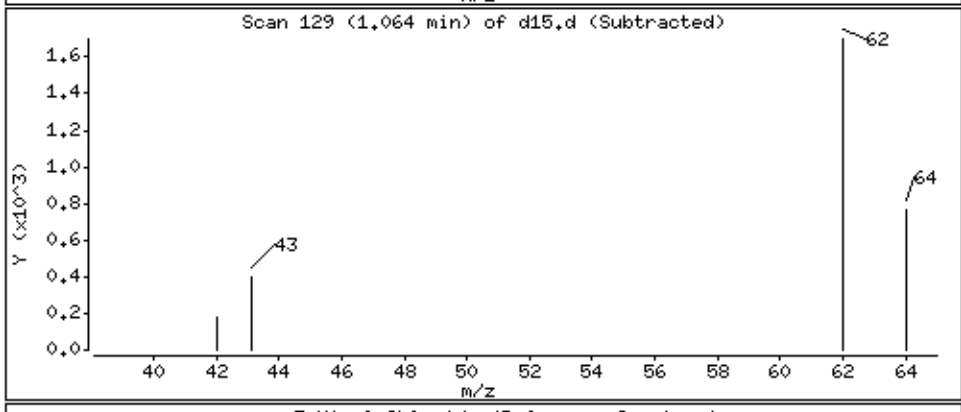
Column diameter: 0.18

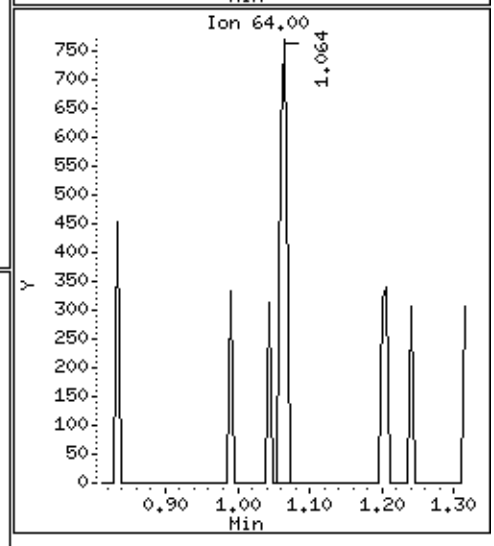
3 Vinyl Chloride

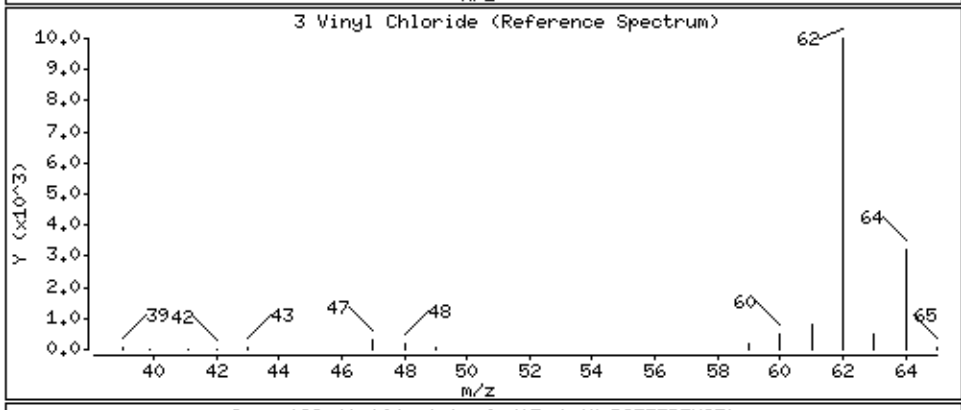
Concentration: 3.05 ppb

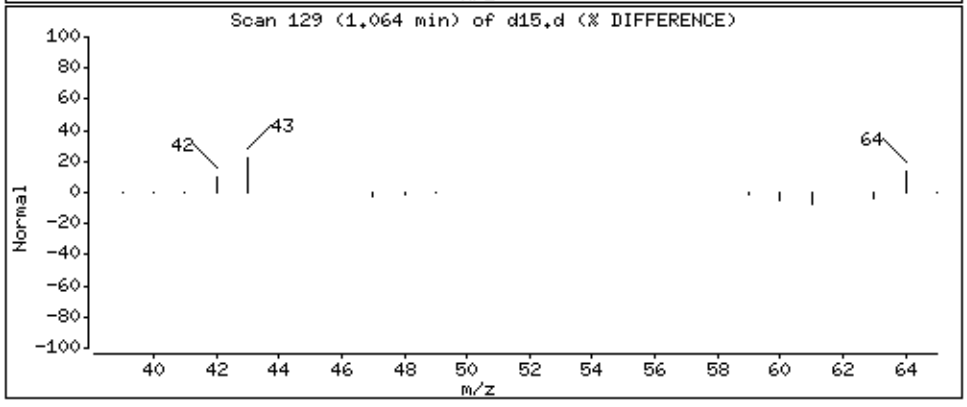












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

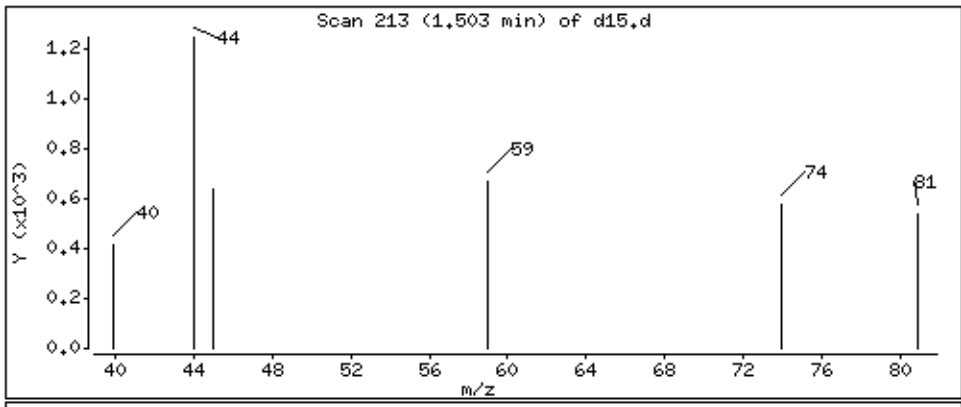
Operator: grm

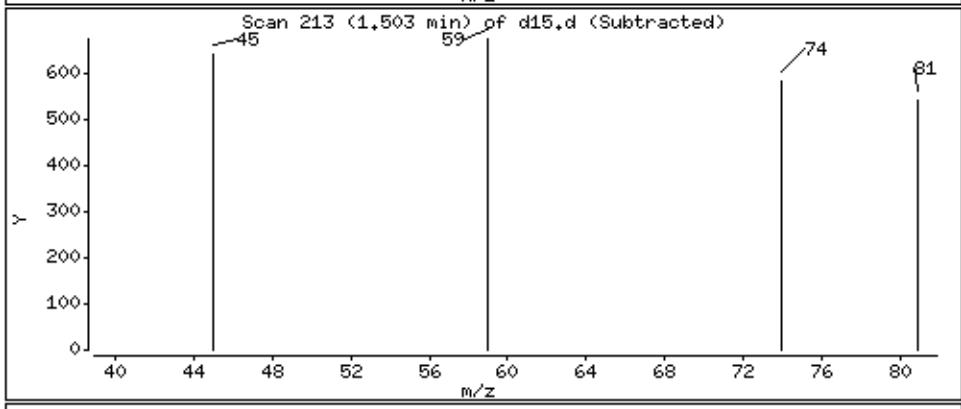
Column phase: DB-624

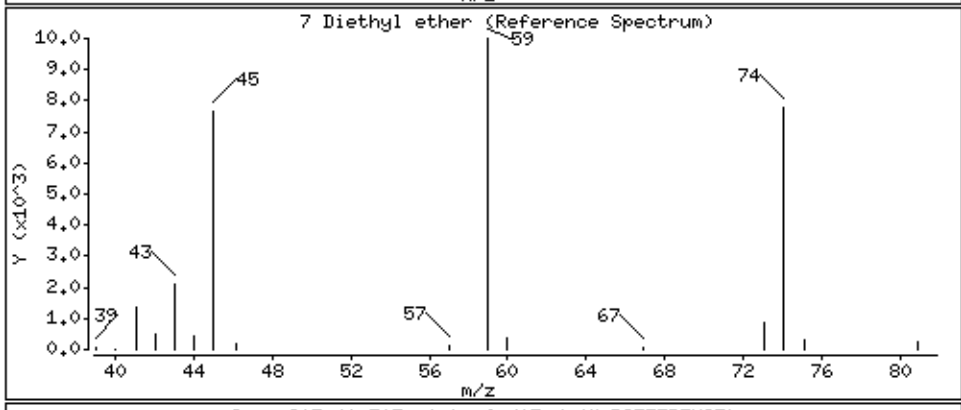
Column diameter: 0.18

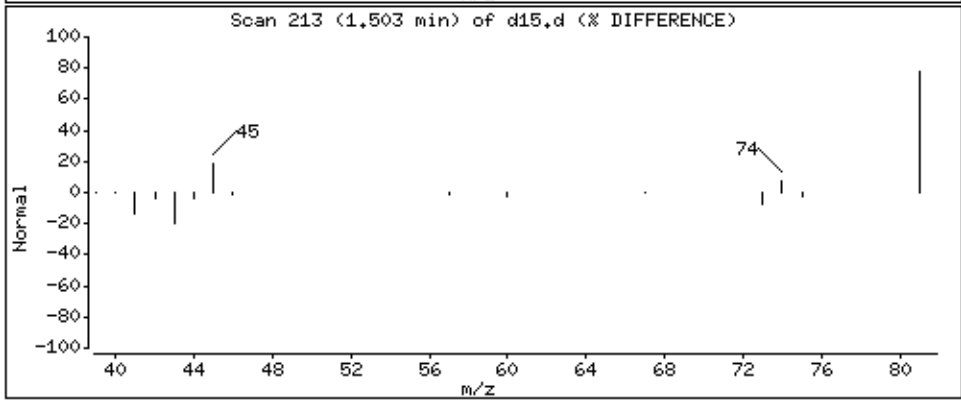
7 Diethyl ether

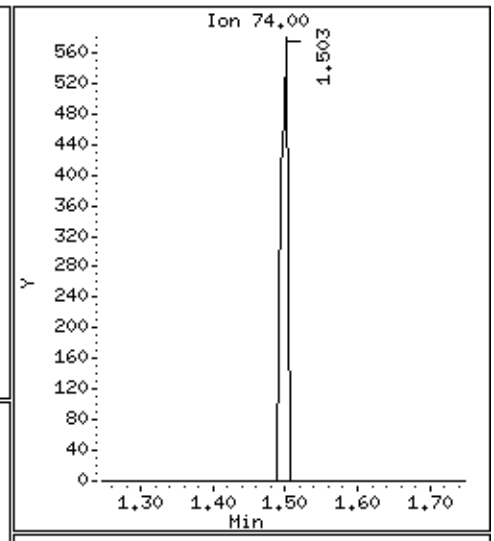
Concentration: 3.24 ppb

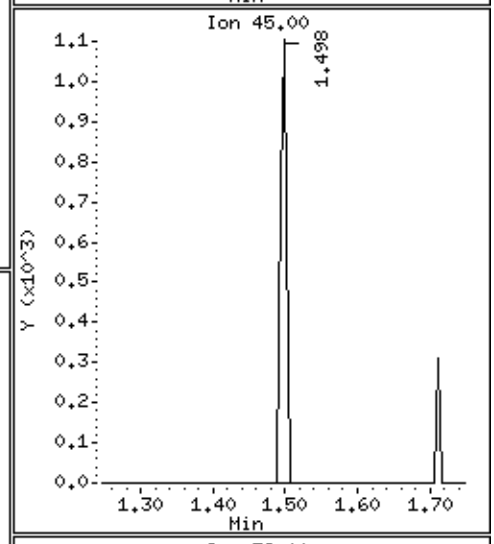


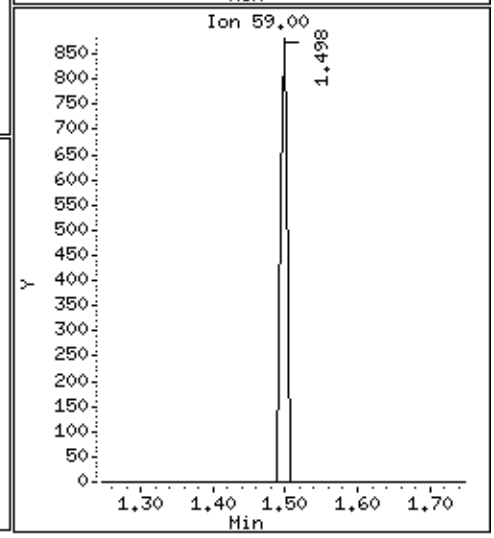












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

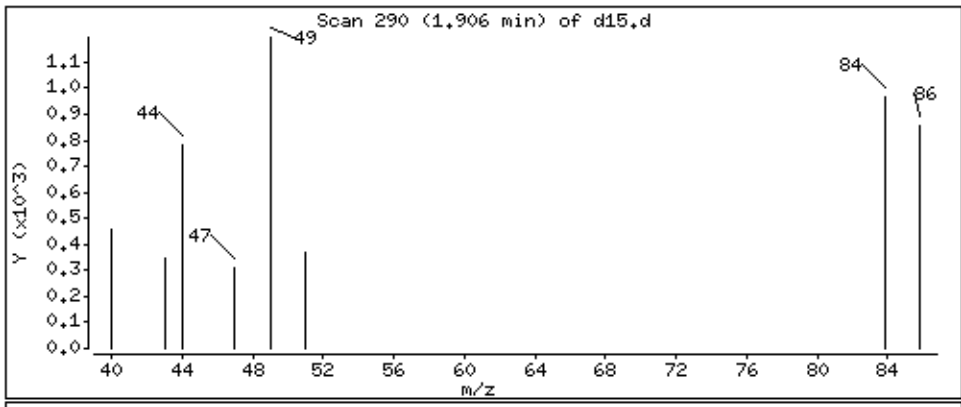
Operator: grm

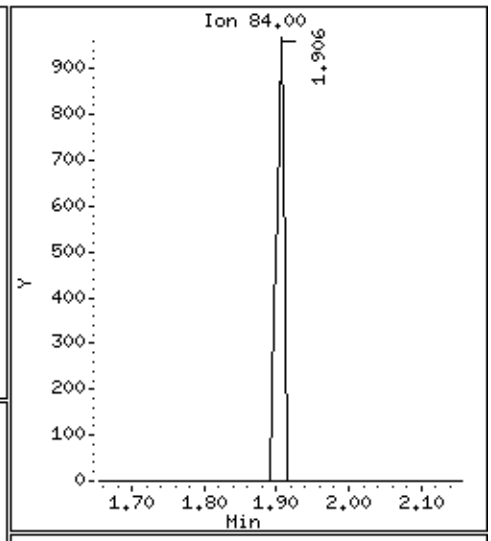
Column phase: DB-624

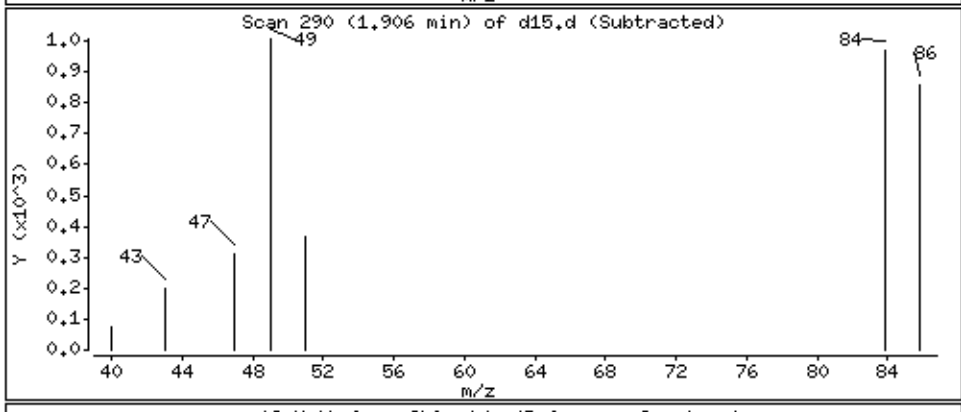
Column diameter: 0.18

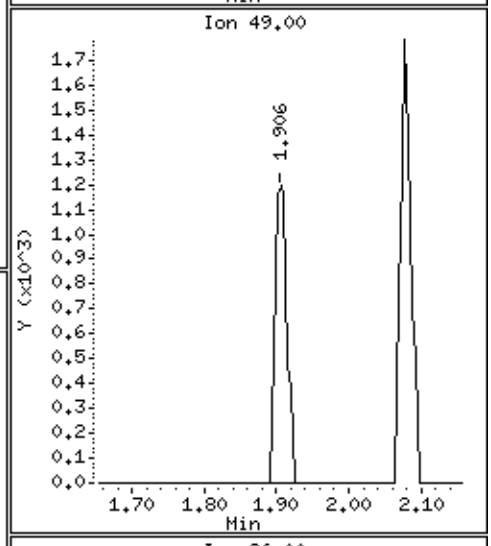
18 Methylene Chloride

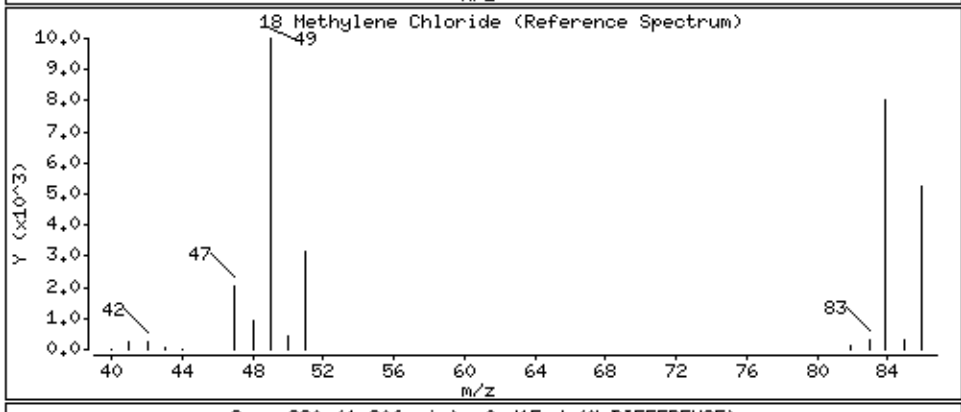
Concentration: 2.52 ppb

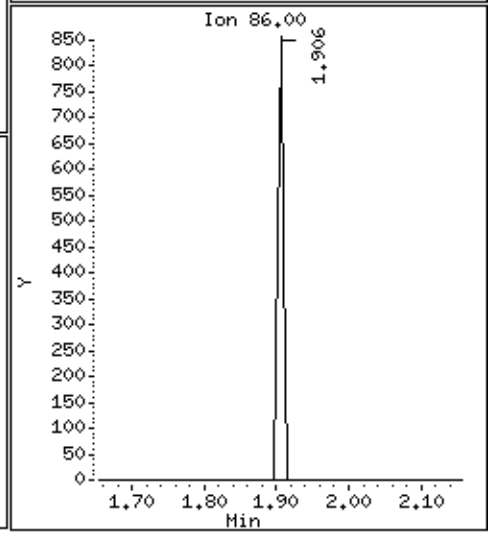


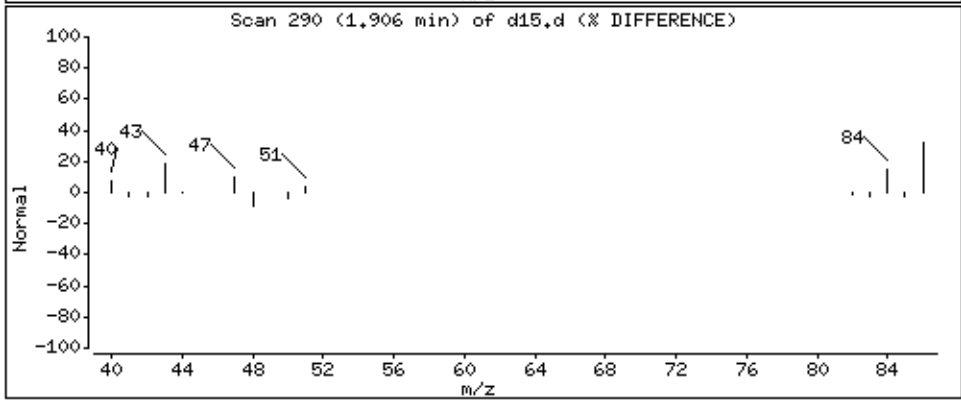












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

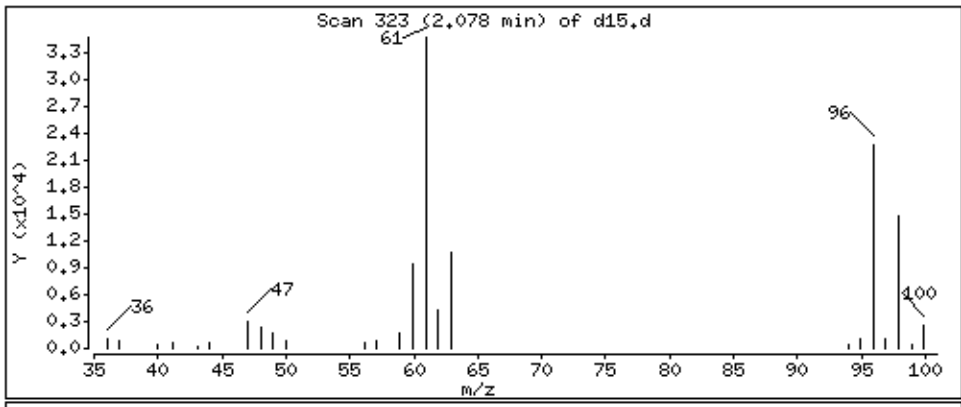
Operator: grm

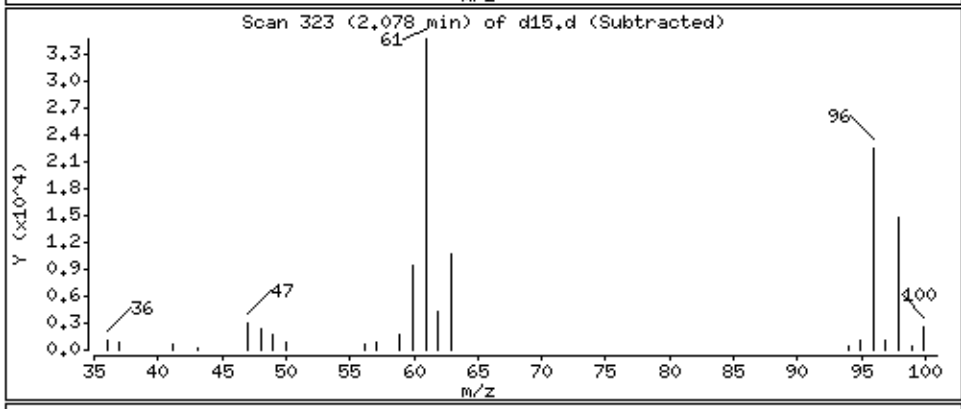
Column phase: DB-624

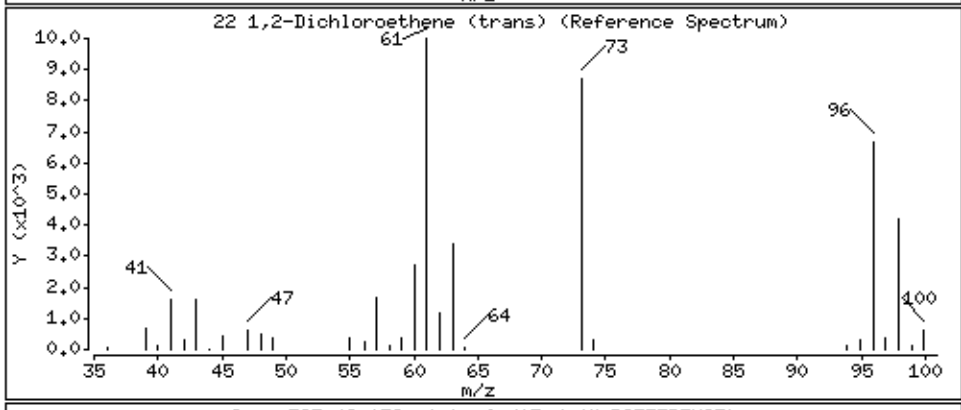
Column diameter: 0.18

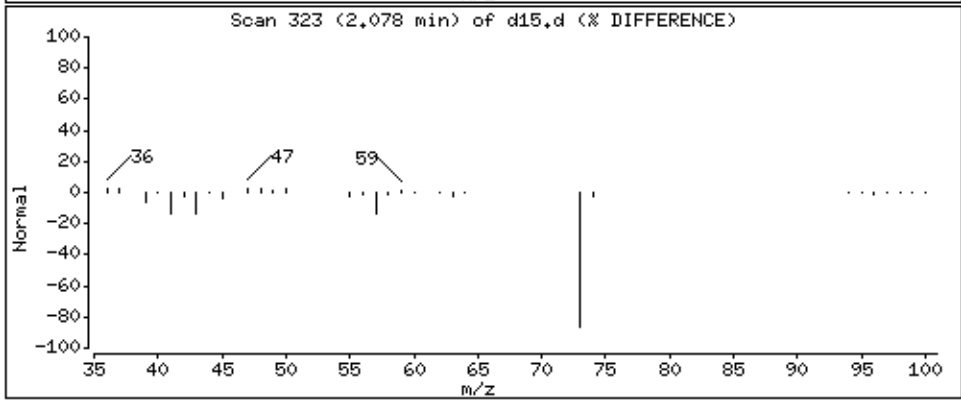
22 1,2-Dichloroethene (trans)

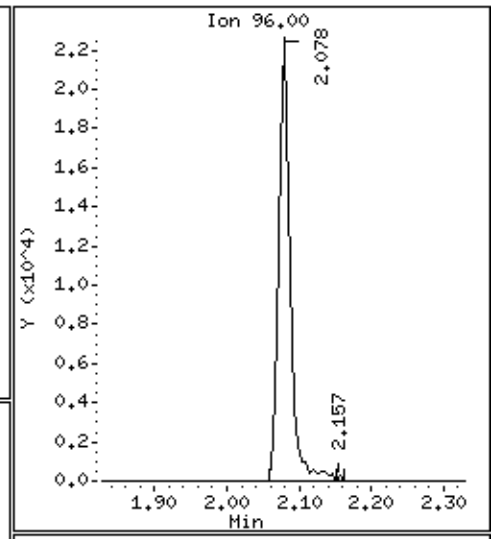
Concentration: 89.5 ppb

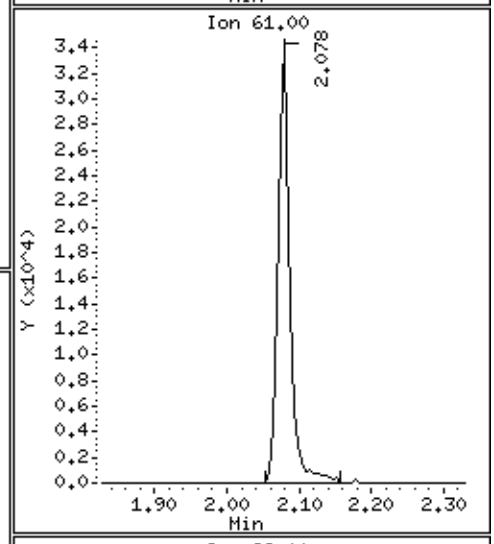


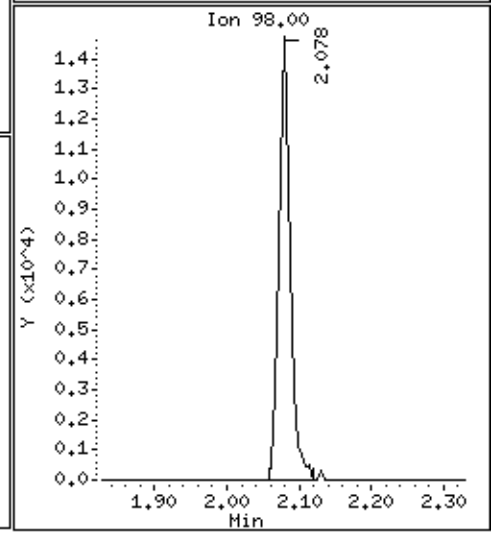












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

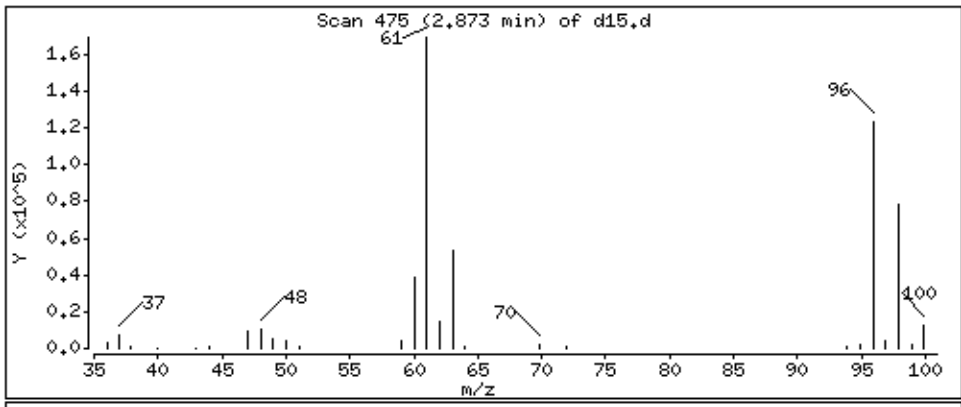
Operator: grm

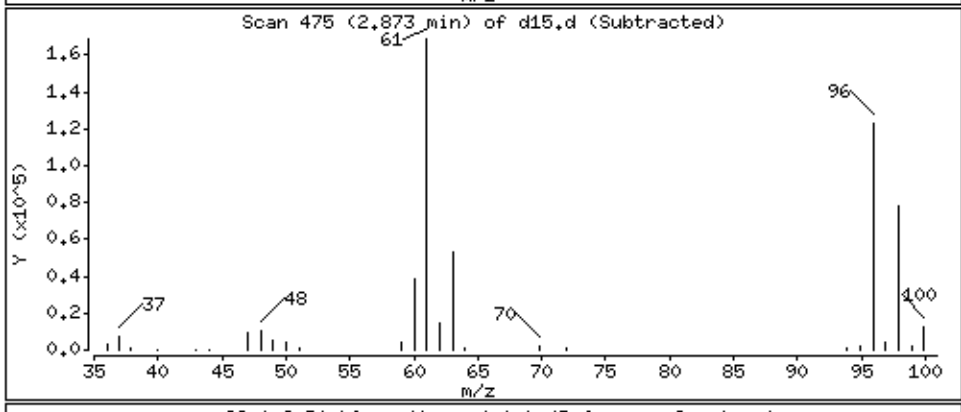
Column phase: DB-624

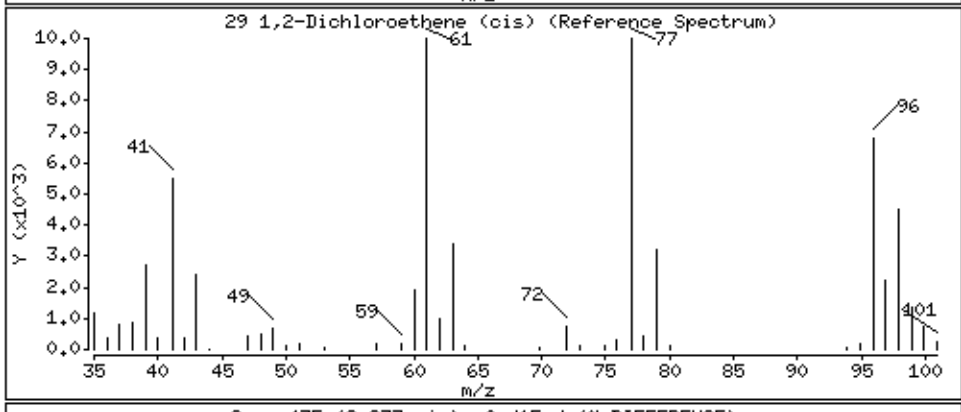
Column diameter: 0.18

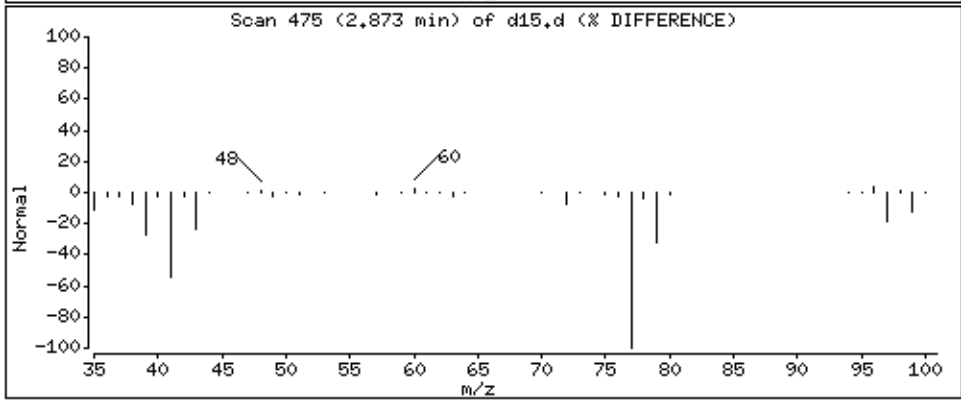
29 1,2-Dichloroethene (cis)

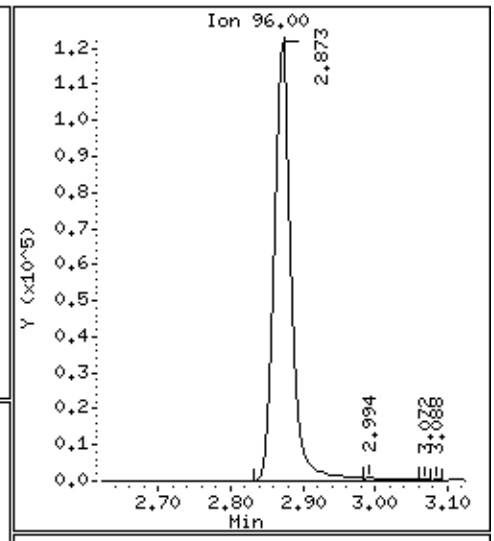
Concentration: 660 ppb

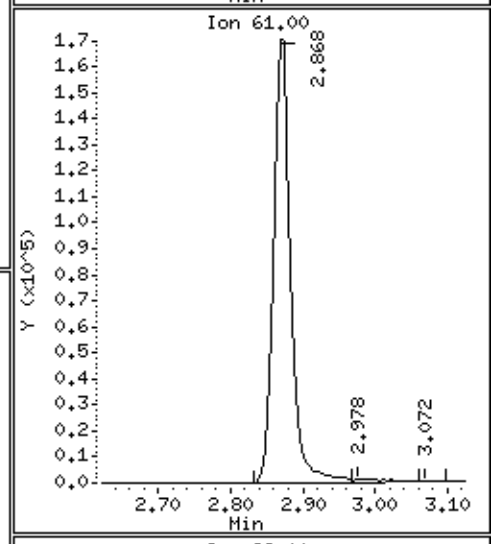


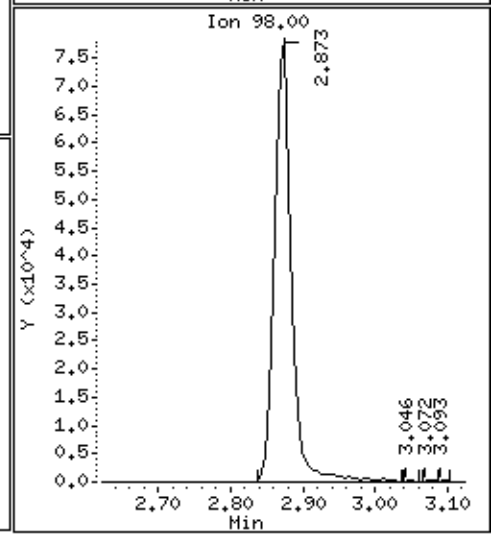












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

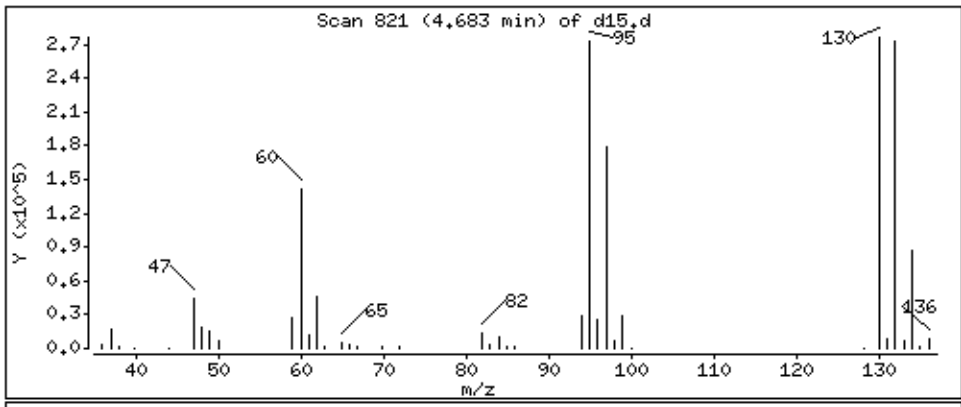
Operator: grm

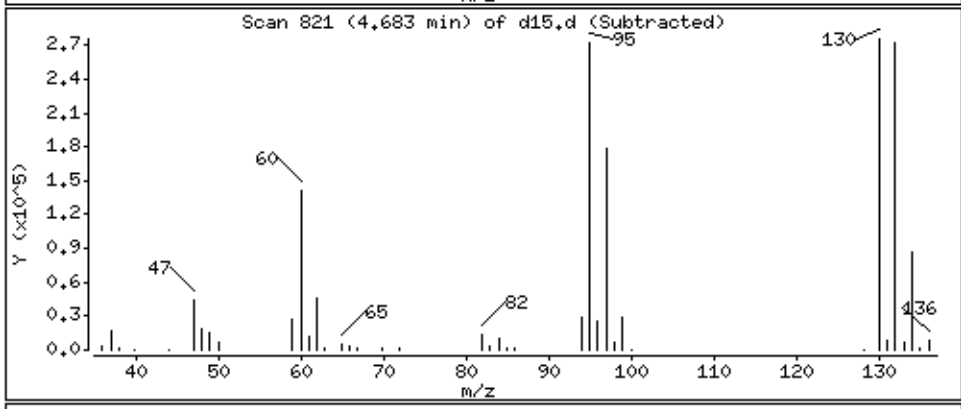
Column phase: DB-624

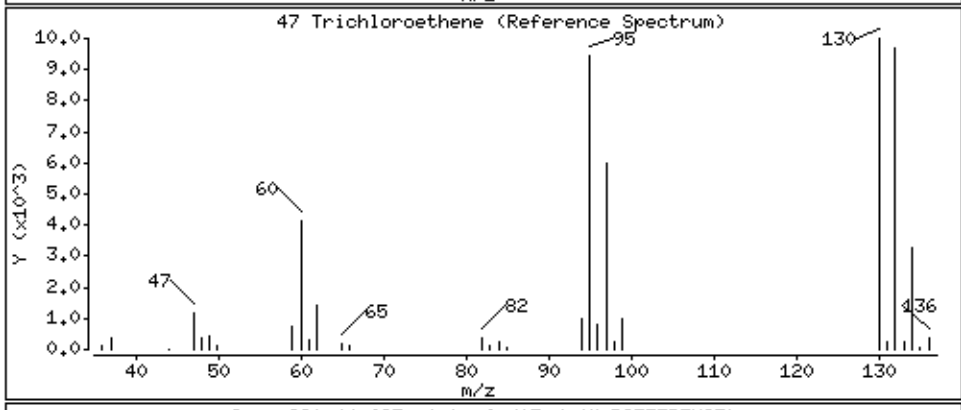
Column diameter: 0.18

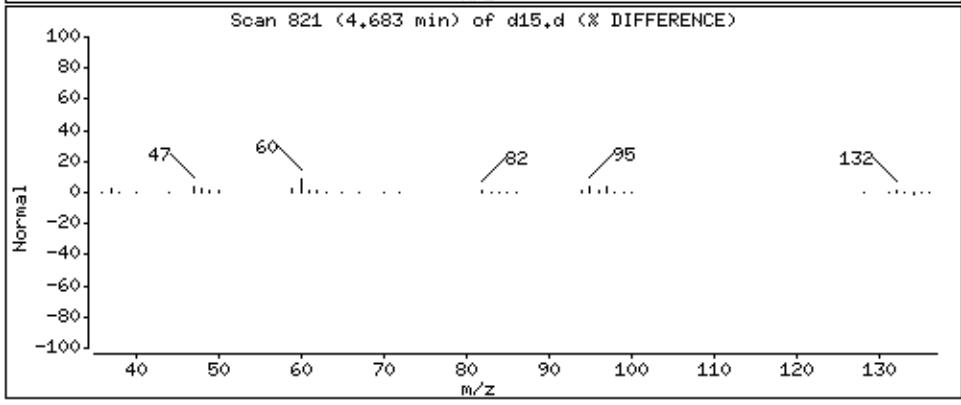
47 Trichloroethene

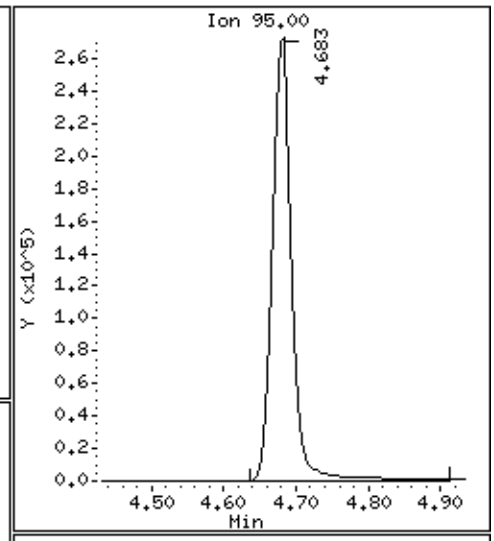
Concentration: 1720 ppb

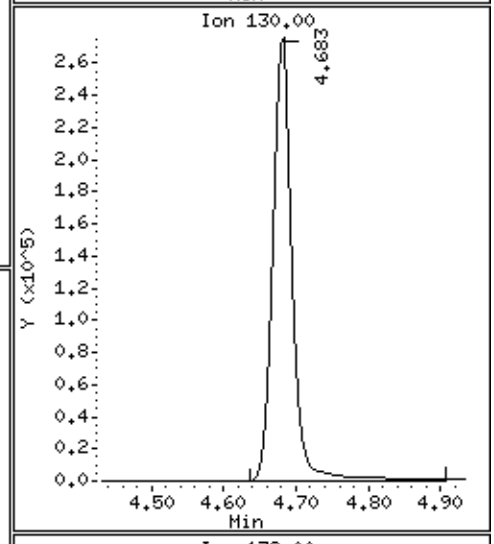


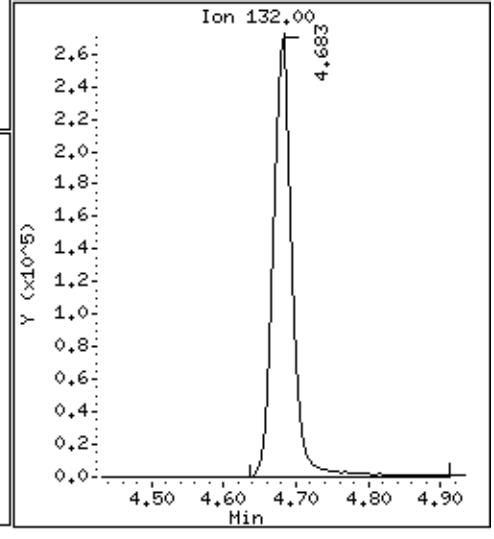












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d15.d

Date : 18-MAR-2016 08:47

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x5

Purge Volume: 5.0

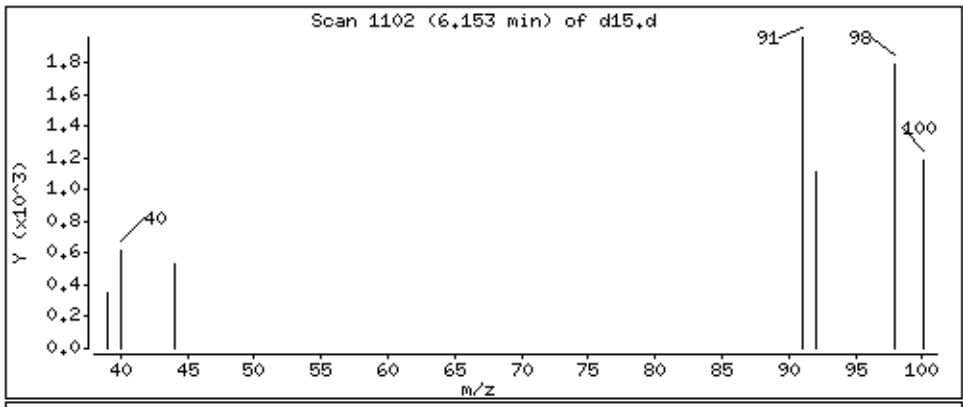
Operator: grm

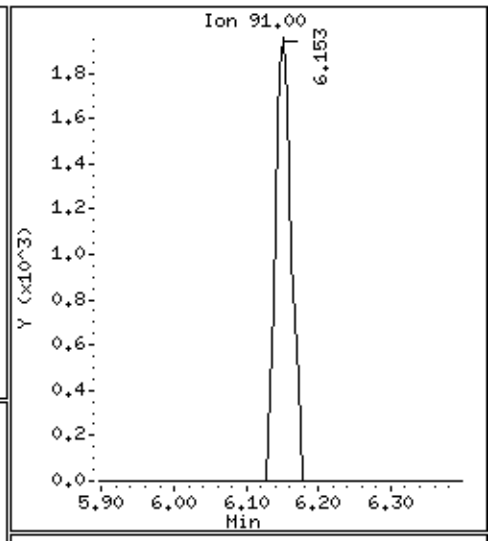
Column phase: DB-624

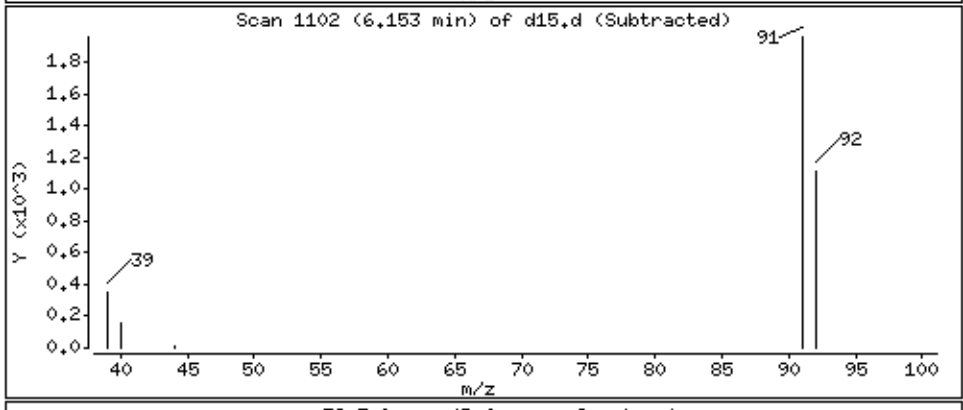
Column diameter: 0.18

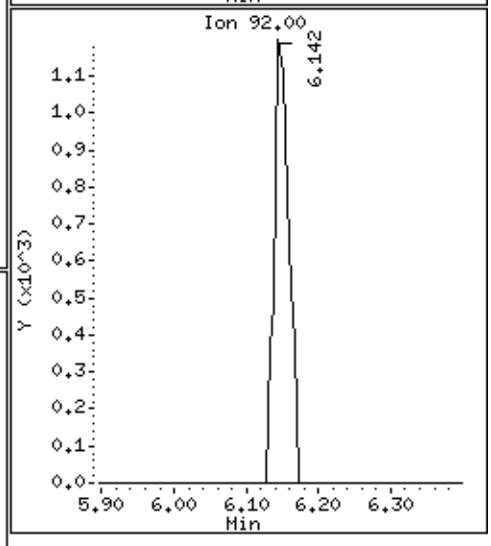
58 Toluene

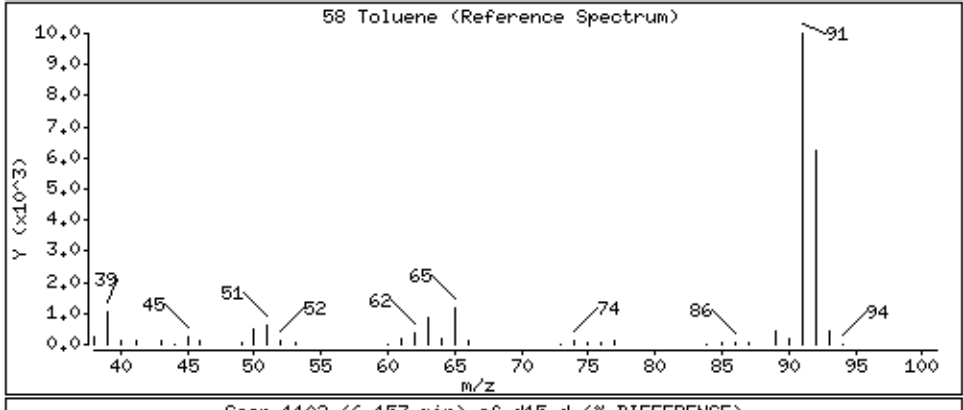
Concentration: 2.34 ppb

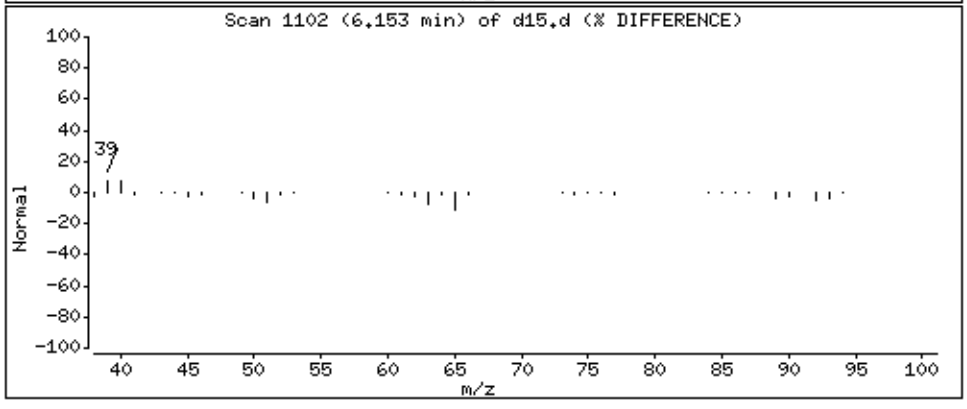












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d15.d
Injection Date: 18-MAR-2016 08:47
Instrument: 50mv1b.i
Lab Sample ID: 50140212009
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0704-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 09:22 Lab Sample ID: 50140212009

Date Analyzed: 03/18/2016 09:22 Lab File ID: B031716.B\D16.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	1370	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d
Lab Smp Id: 50140212009 Client Smp ID: MW-0704-S1(030916)
Inj Date : 18-MAR-2016 09:22
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212009x50
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 89
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.018	1.015	(0.241)	2015	0.58914	29.4	
	7 Diethyl ether	74	1.499	1.496	(0.354)	571	0.83290	41.6(Q)	
	18 Methylene Chloride	84	1.907	1.904	(0.451)	1100	0.67280	33.6	
	22 1,2-Dichloroethene (trans)	96	2.074	2.077	(0.491)	2150	1.42236	71.1	
	29 1,2-Dichloroethene (cis)	96	2.869	2.872	(0.678)	17140	10.8892	544	
$	38 Dibromofluoromethane (S)	113	3.397	3.400	(0.803)	79464	53.4403	53.4	
*	46 Fluorobenzene (IS)	96	4.229	4.232	(1.000)	286348	50.0000		
	47 Trichloroethene	95	4.679	4.682	(1.106)	41865	27.3557	1370	
$	57 Toluene-d8	98	6.075	6.073	(0.822)	272336	48.9539	49.0	
	58 Toluene	91	6.149	6.146	(0.832)	3050	0.44699	22.3	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.391	(1.000)	214251	50.0000		
$	76 4-Bromofluorobenzene	95	8.209	8.207	(1.110)	102351	52.6246	52.6	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.881	(1.000)	114734	50.0000		

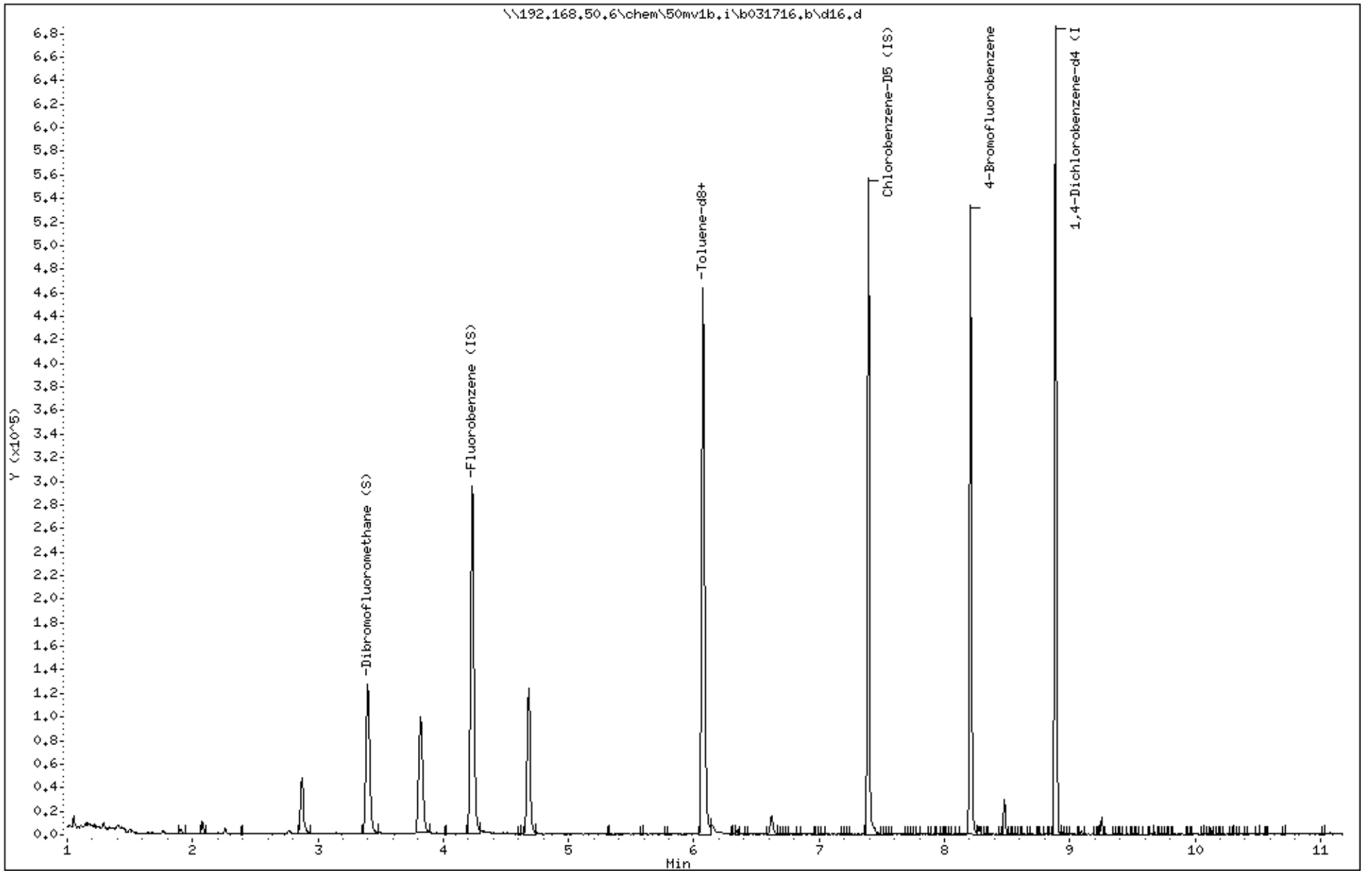
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d
Date : 18-MAR-2016 09:22
Client ID: MW-0704-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212009x50
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

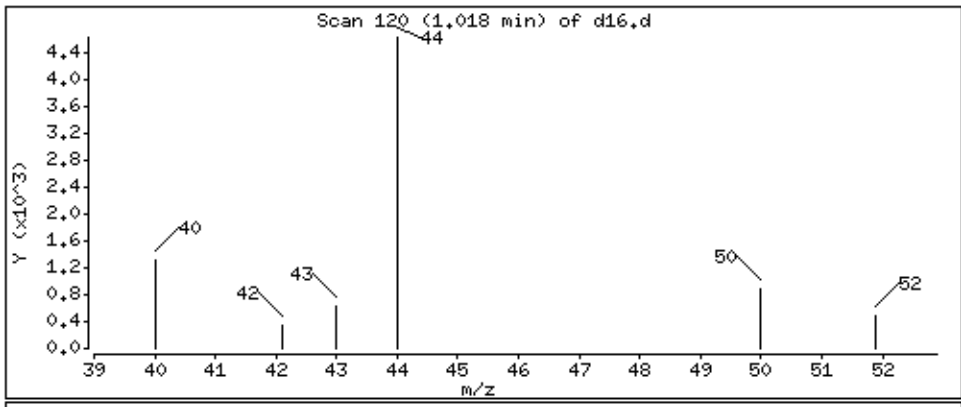
Operator: grm

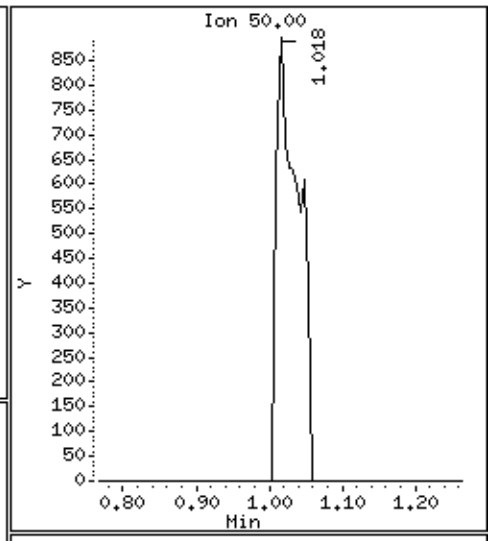
Column phase: DB-624

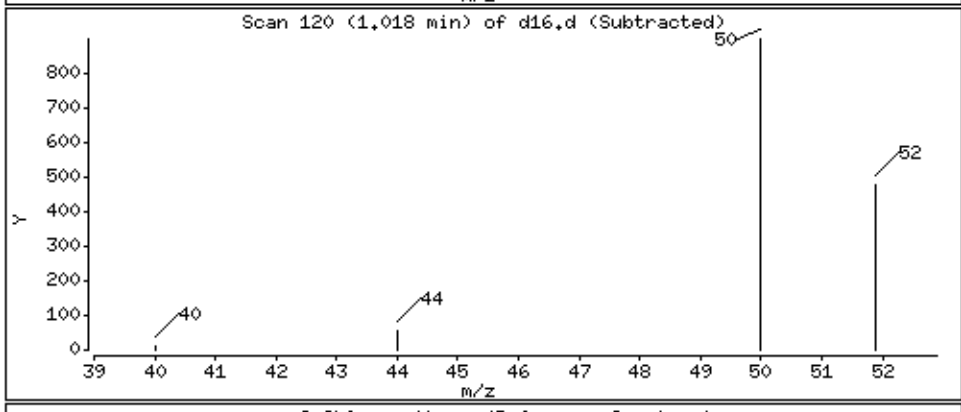
Column diameter: 0.18

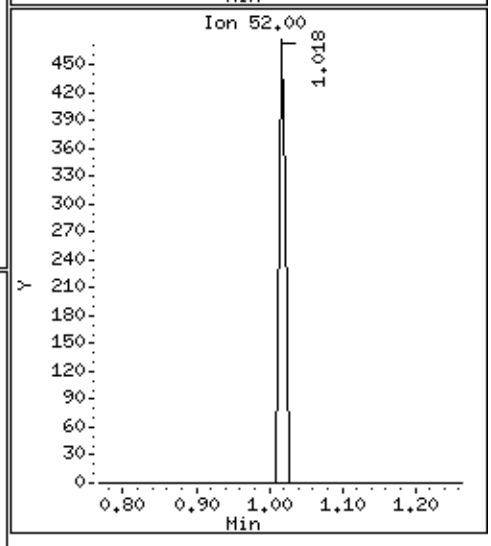
2 Chloromethane

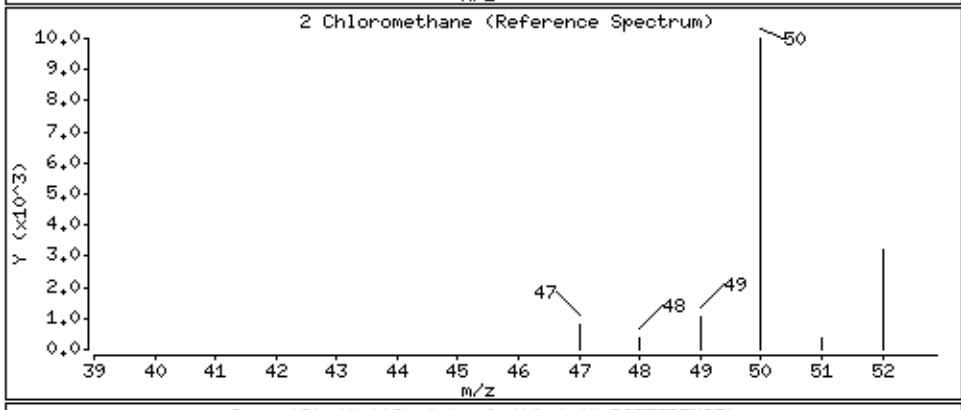
Concentration: 29.4 ppb

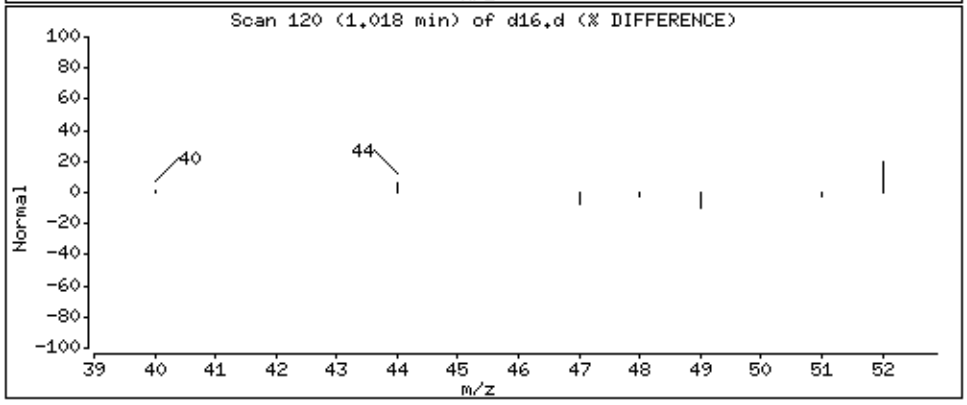












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

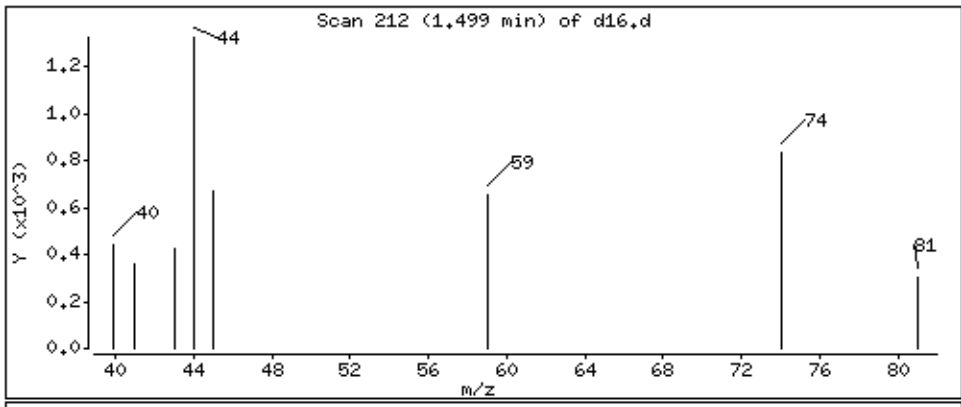
Operator: grm

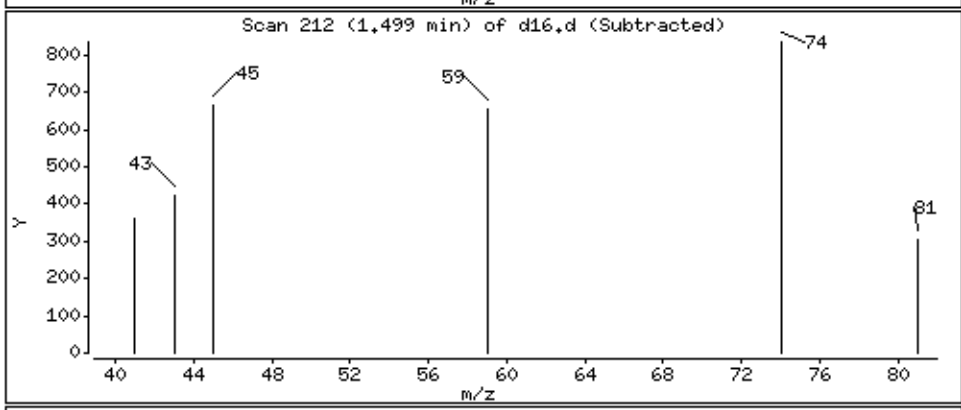
Column phase: DB-624

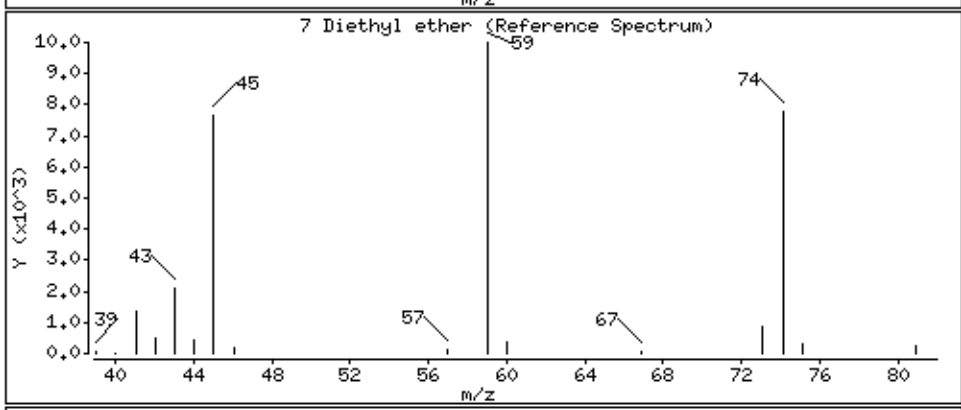
Column diameter: 0.18

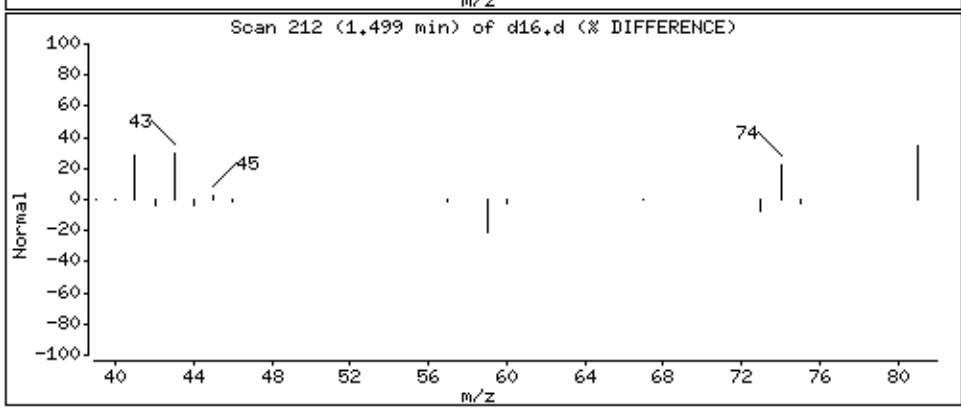
7 Diethyl ether

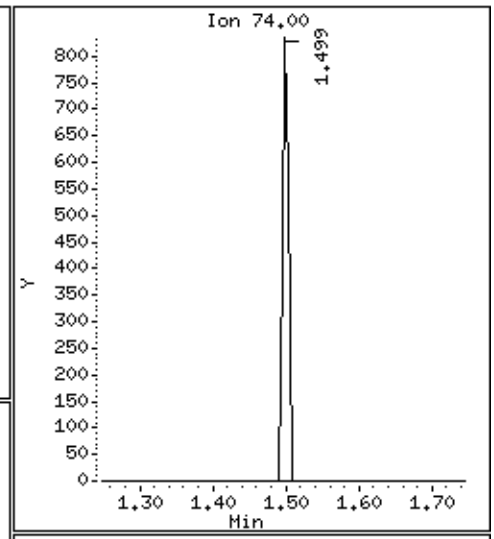
Concentration: 41.6 ppb

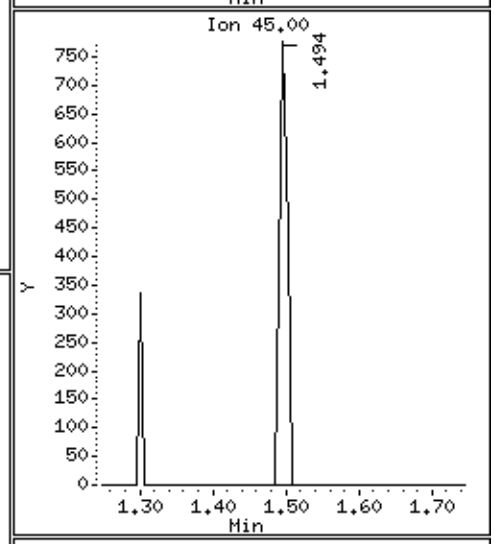


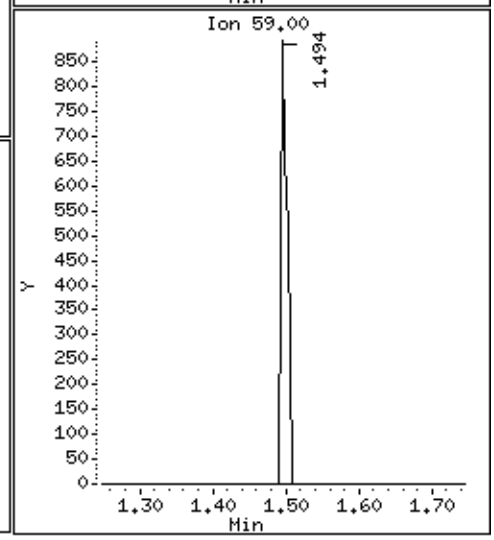












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

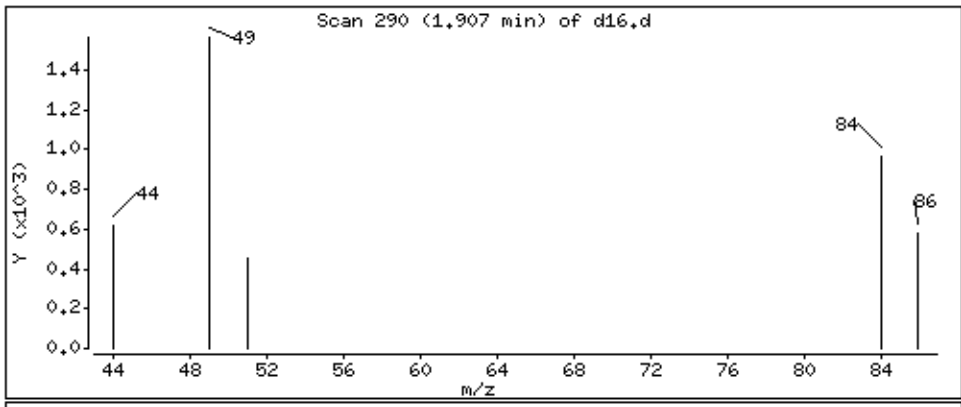
Operator: grm

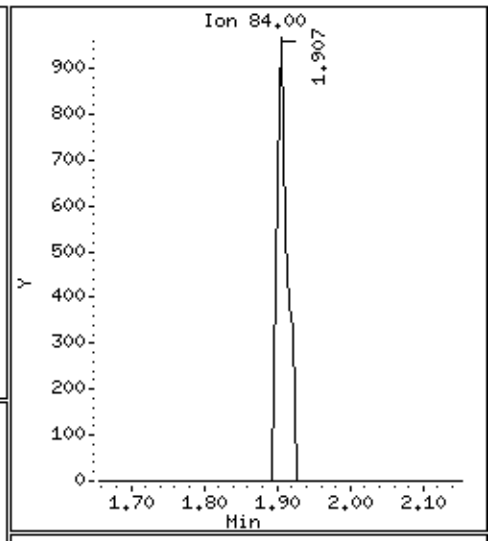
Column phase: DB-624

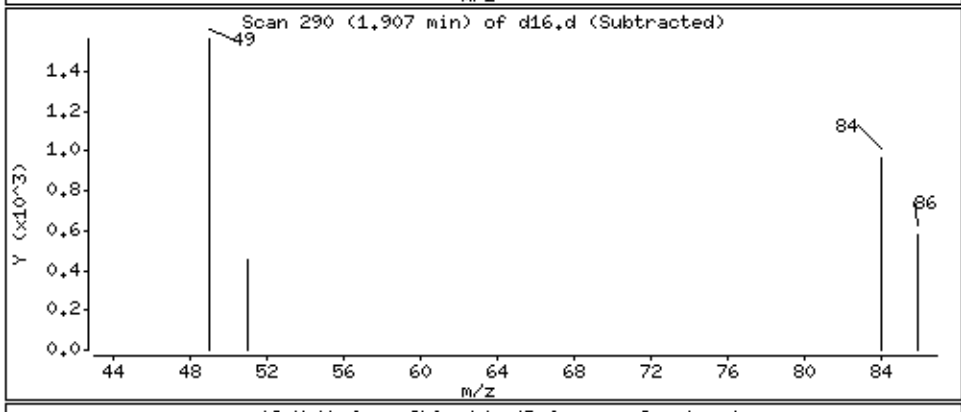
Column diameter: 0.18

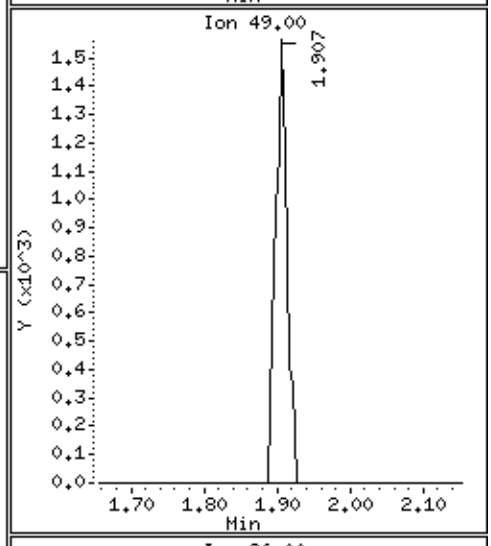
18 Methylene Chloride

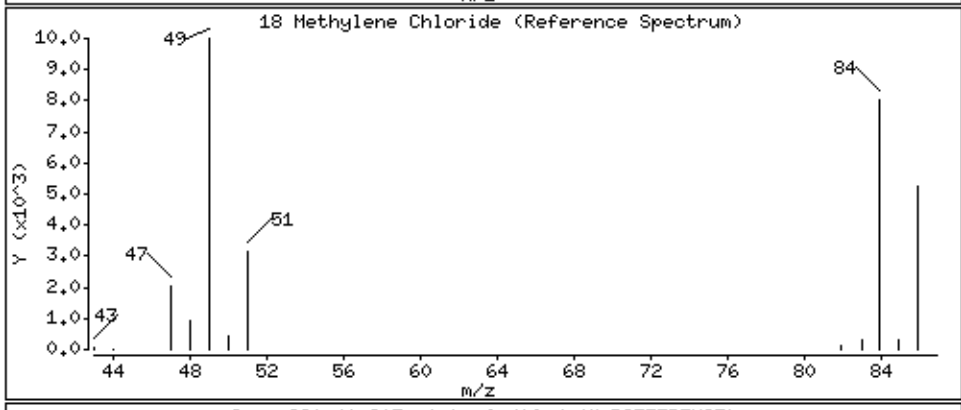
Concentration: 33.6 ppb

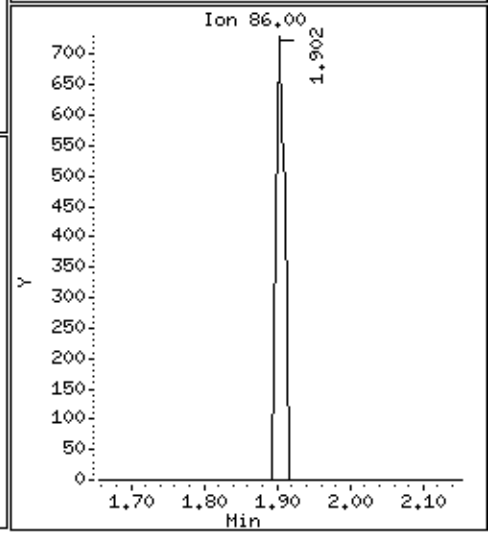


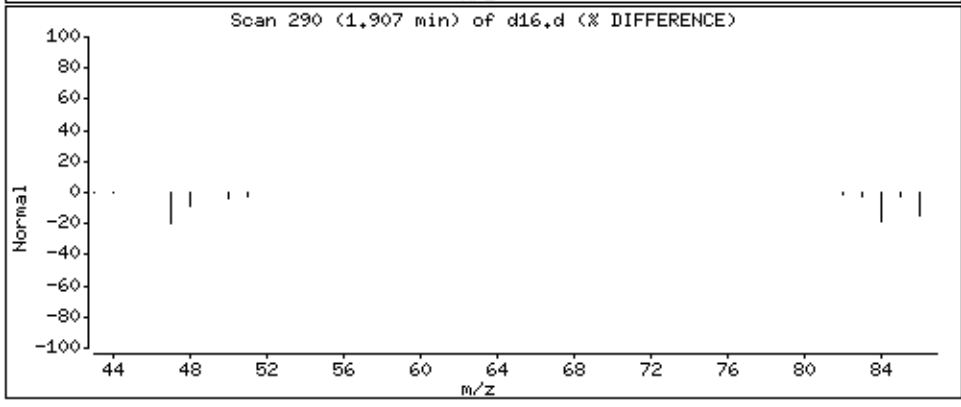












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

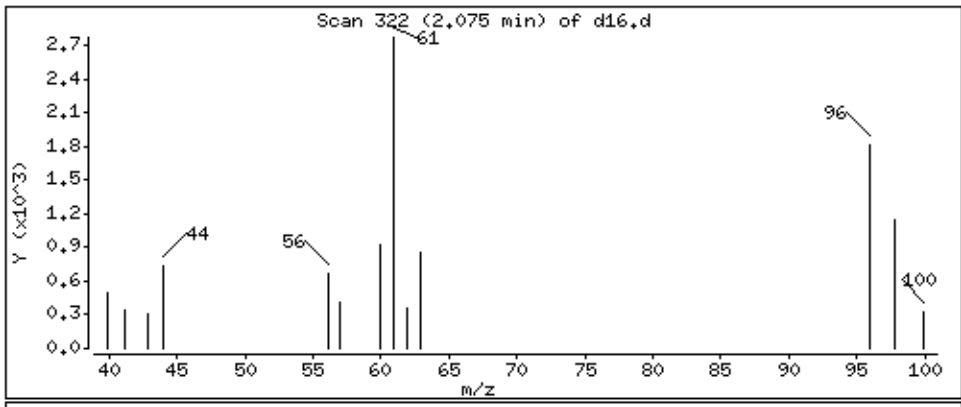
Operator: grm

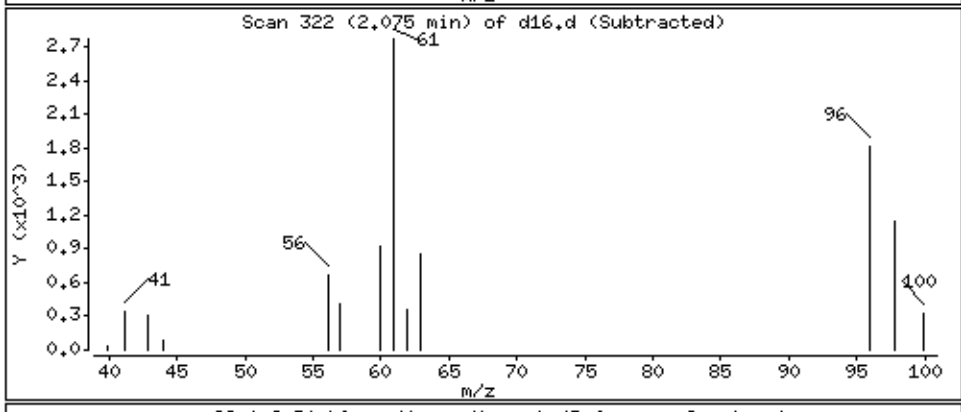
Column phase: DB-624

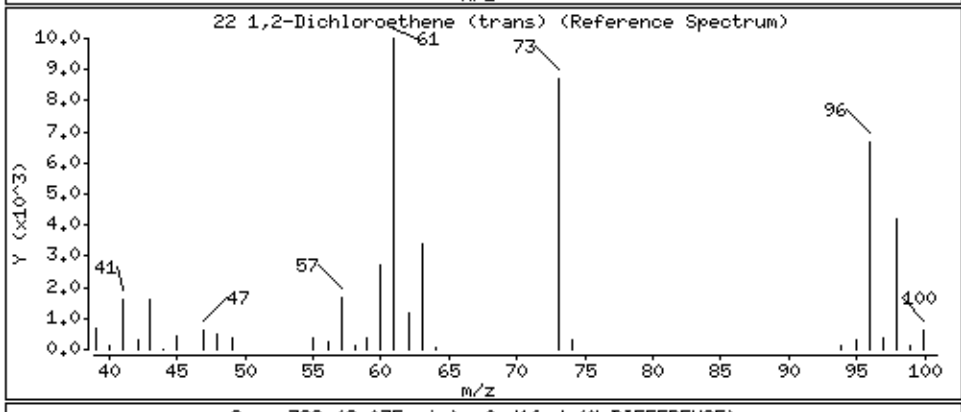
Column diameter: 0.18

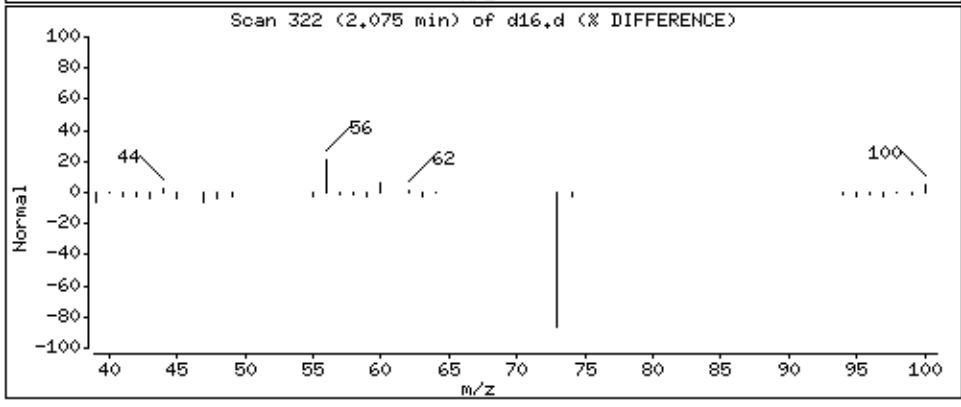
22 1,2-Dichloroethene (trans)

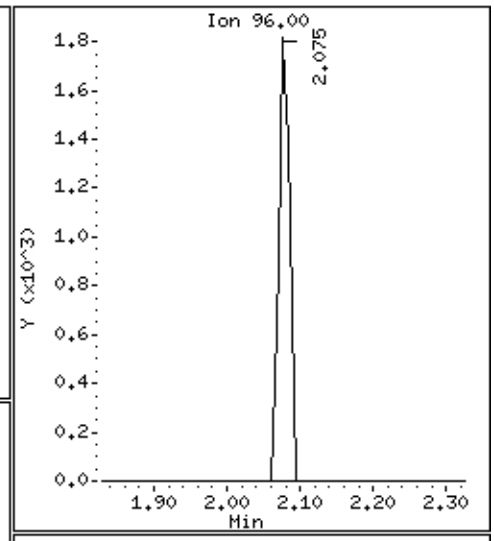
Concentration: 71.1 ppb

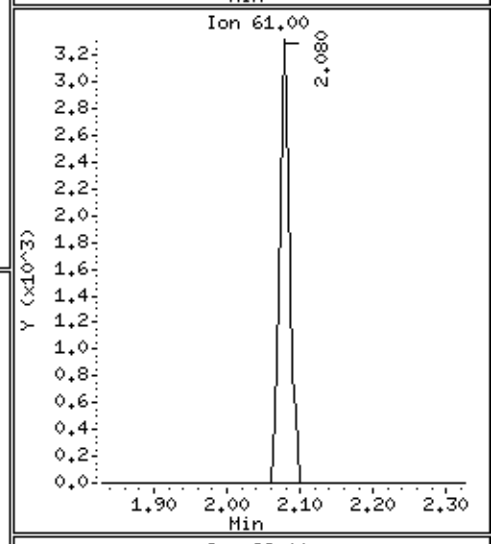


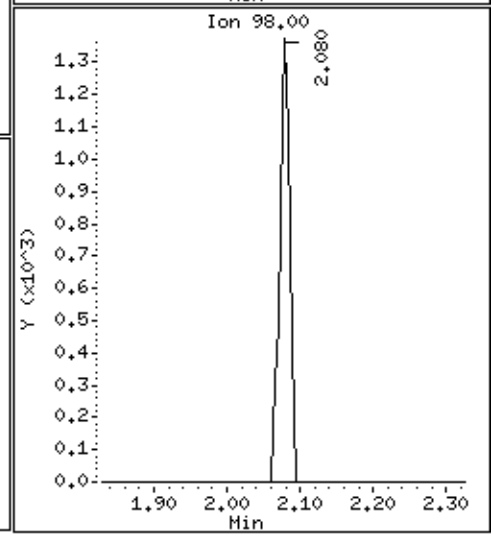












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

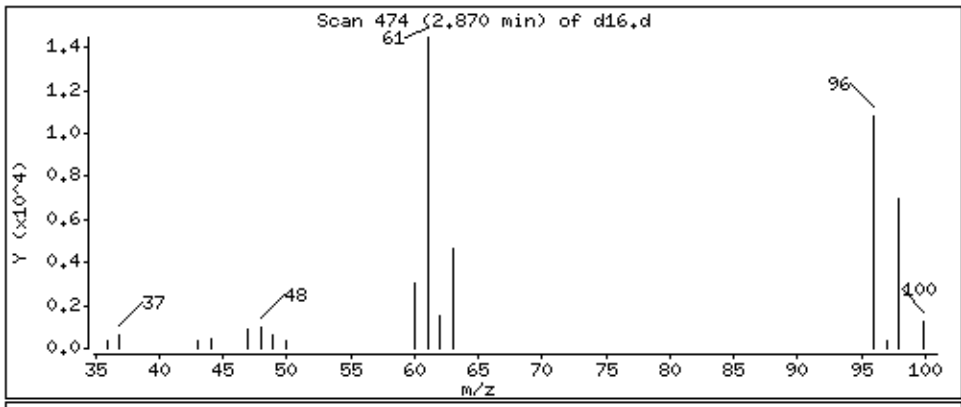
Operator: grm

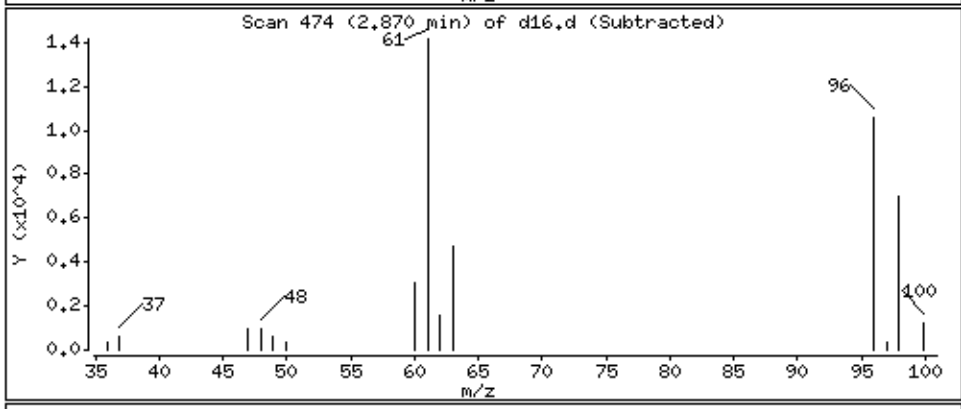
Column phase: DB-624

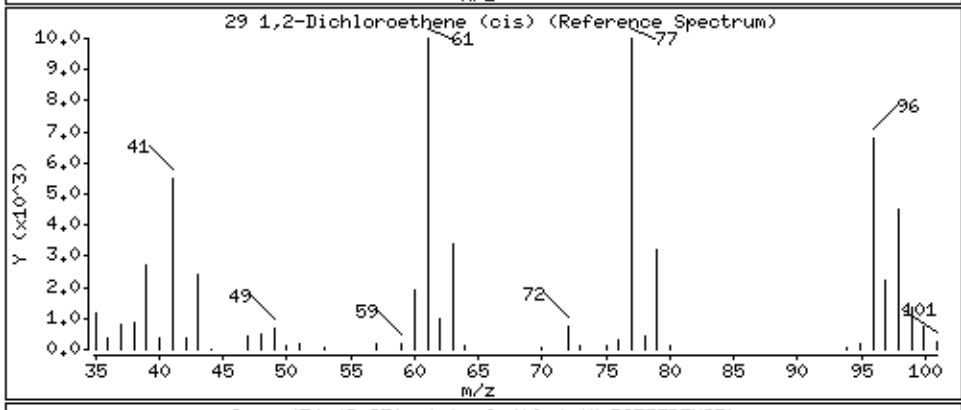
Column diameter: 0.18

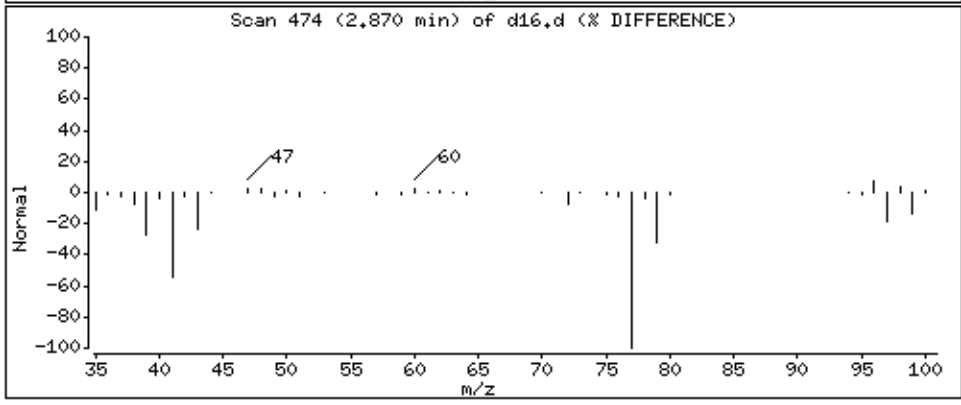
29 1,2-Dichloroethene (cis)

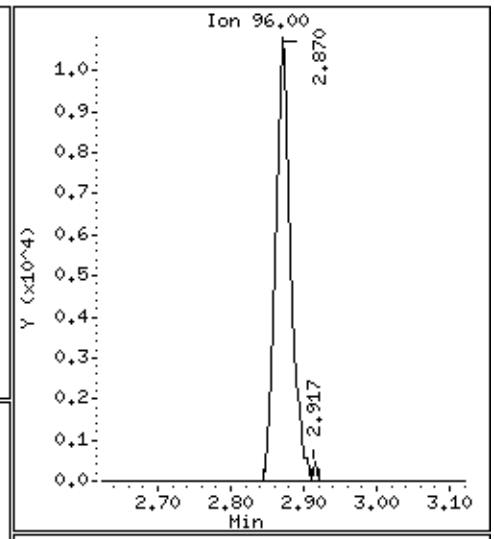
Concentration: 544 ppb

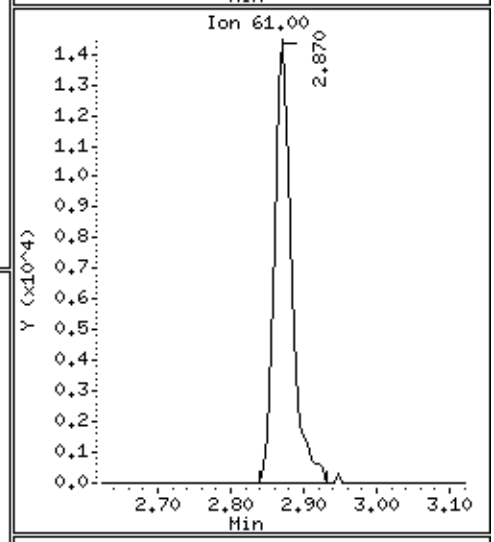


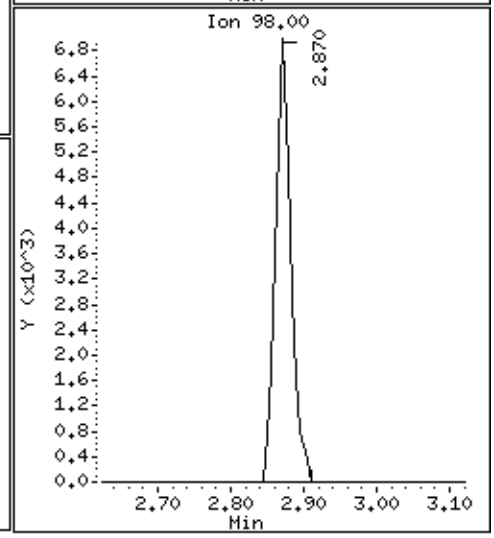












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

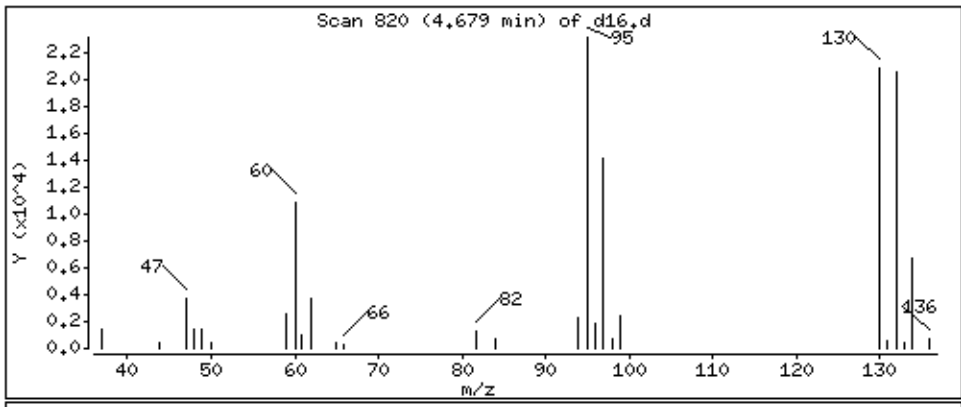
Operator: grm

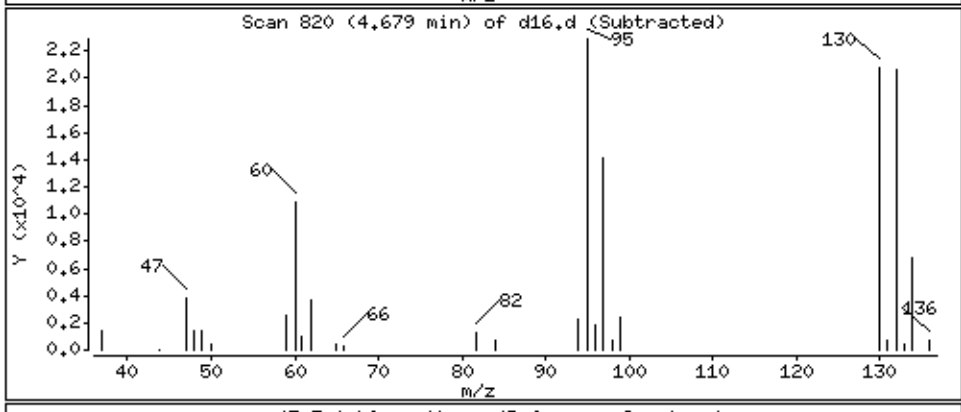
Column phase: DB-624

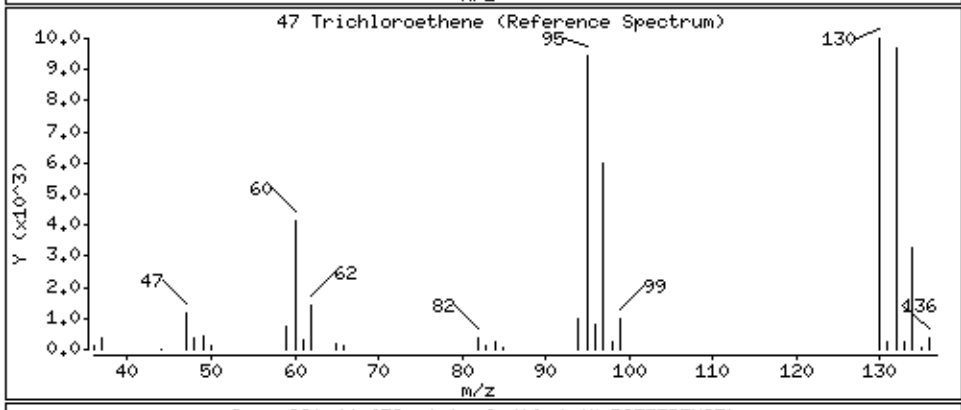
Column diameter: 0.18

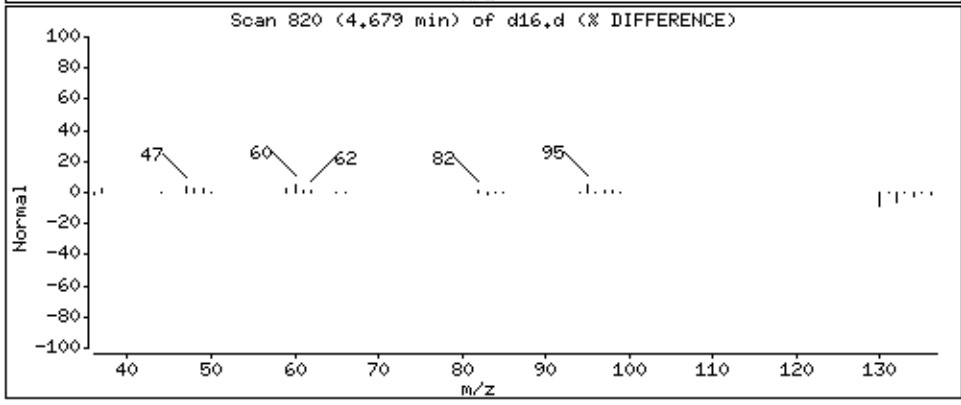
47 Trichloroethene

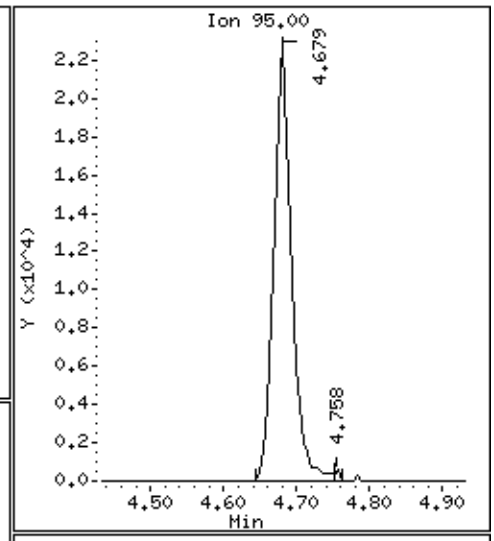
Concentration: 1370 ppb

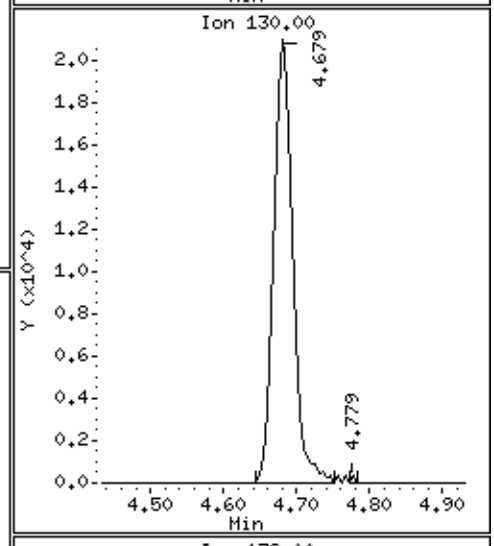


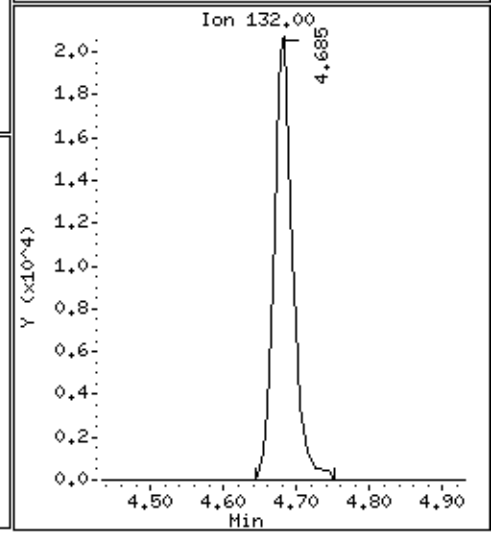












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d16.d

Date : 18-MAR-2016 09:22

Client ID: MW-0704-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212009x50

Purge Volume: 5.0

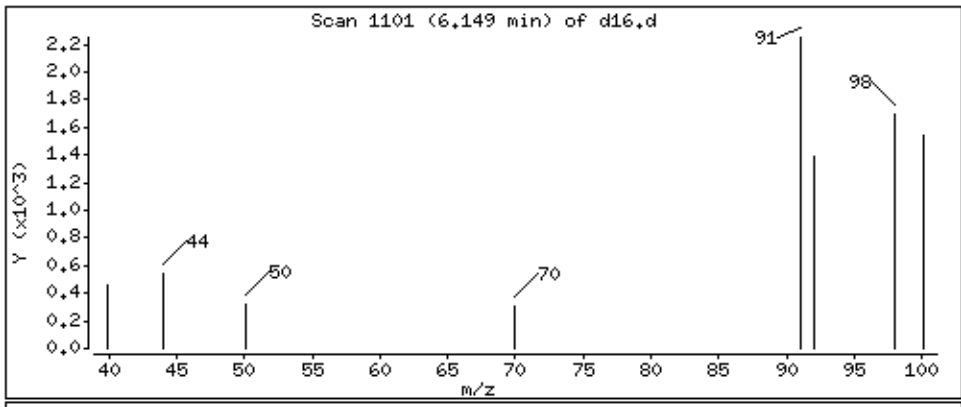
Operator: grm

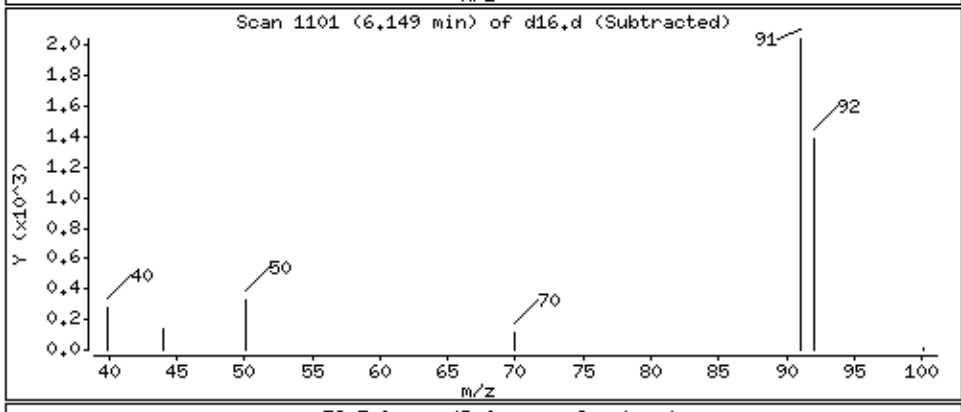
Column phase: DB-624

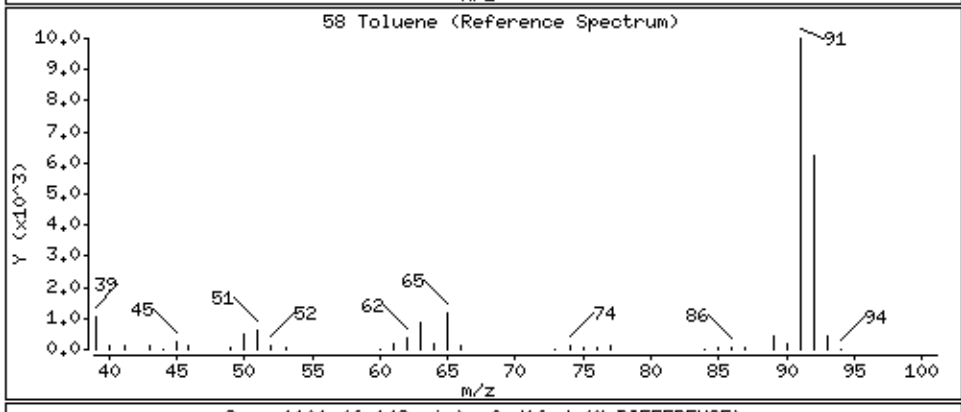
Column diameter: 0.18

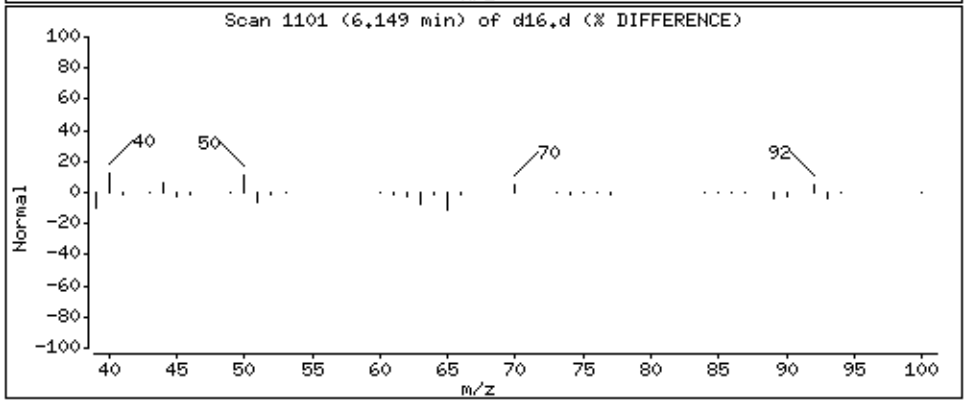
58 Toluene

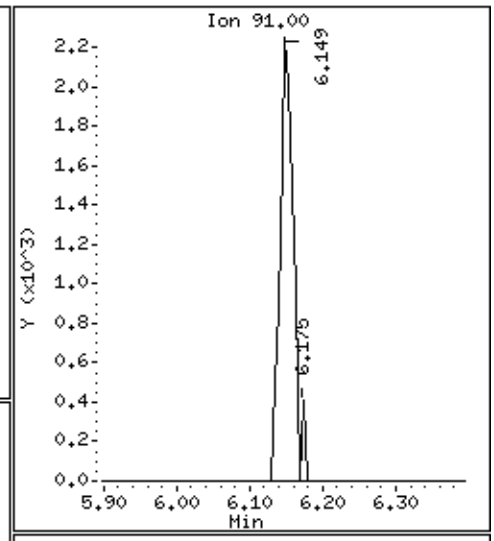
Concentration: 22.3 ppb

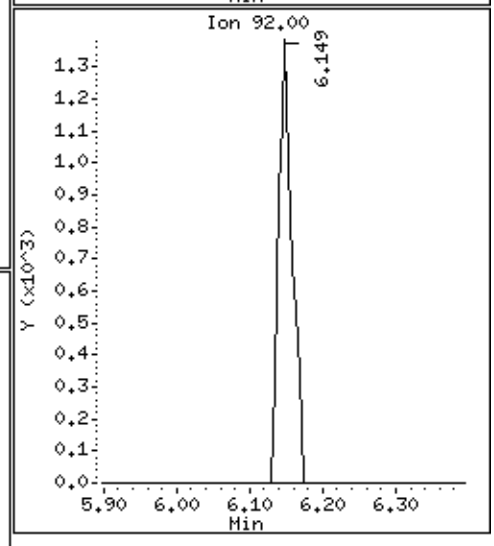












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d16.d
Injection Date: 18-MAR-2016 09:22
Instrument: 50mv1b.i
Lab Sample ID: 50140212009
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0612-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 09:58 Lab Sample ID: 50140212010

Date Analyzed: 03/18/2016 09:58 Lab File ID: B031716.B\D17.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	193	
156-60-5	trans-1,2-Dichloroethene	47.2	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0612-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 09:58 Lab Sample ID: 50140212010

Date Analyzed: 03/18/2016 09:58 Lab File ID: B031716.B\D17.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d
Lab Smp Id: 50140212010 Client Smp ID: MW-0612-S1(030916)
Inj Date : 18-MAR-2016 09:58
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212010x5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 90
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.016	1.015	(0.240)	2428	0.71101	3.56	
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	1444	0.55066	2.75(Q)	
	7 Diethyl ether	74	1.503	1.496	(0.355)	609	0.88973	4.45	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	889	0.54460	2.72(Q)	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	14259	9.44807	47.2	
	24 n-Hexane	57	2.256	2.260	(0.533)	2006	0.75577	3.78	
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.679)	60566	38.5386	193	
$	38 Dibromofluoromethane (S)	113	3.396	3.400	(0.802)	77215	52.0096	52.0	
*	46 Fluorobenzene (IS)	96	4.233	4.232	(1.000)	285898	50.0000		
	47 Trichloroethene	95	4.677	4.682	(1.105)	755347	494.340	2470	
$	57 Toluene-d8	98	6.074	6.073	(0.822)	266532	48.3213	48.3	
	58 Toluene	91	6.152	6.146	(0.832)	3220	0.47595	2.38	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.391	(1.000)	212430	50.0000		
$	76 4-Bromofluorobenzene	95	8.208	8.207	(1.110)	100415	52.0717	52.1	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	111908	50.0000		

QC Flag Legend

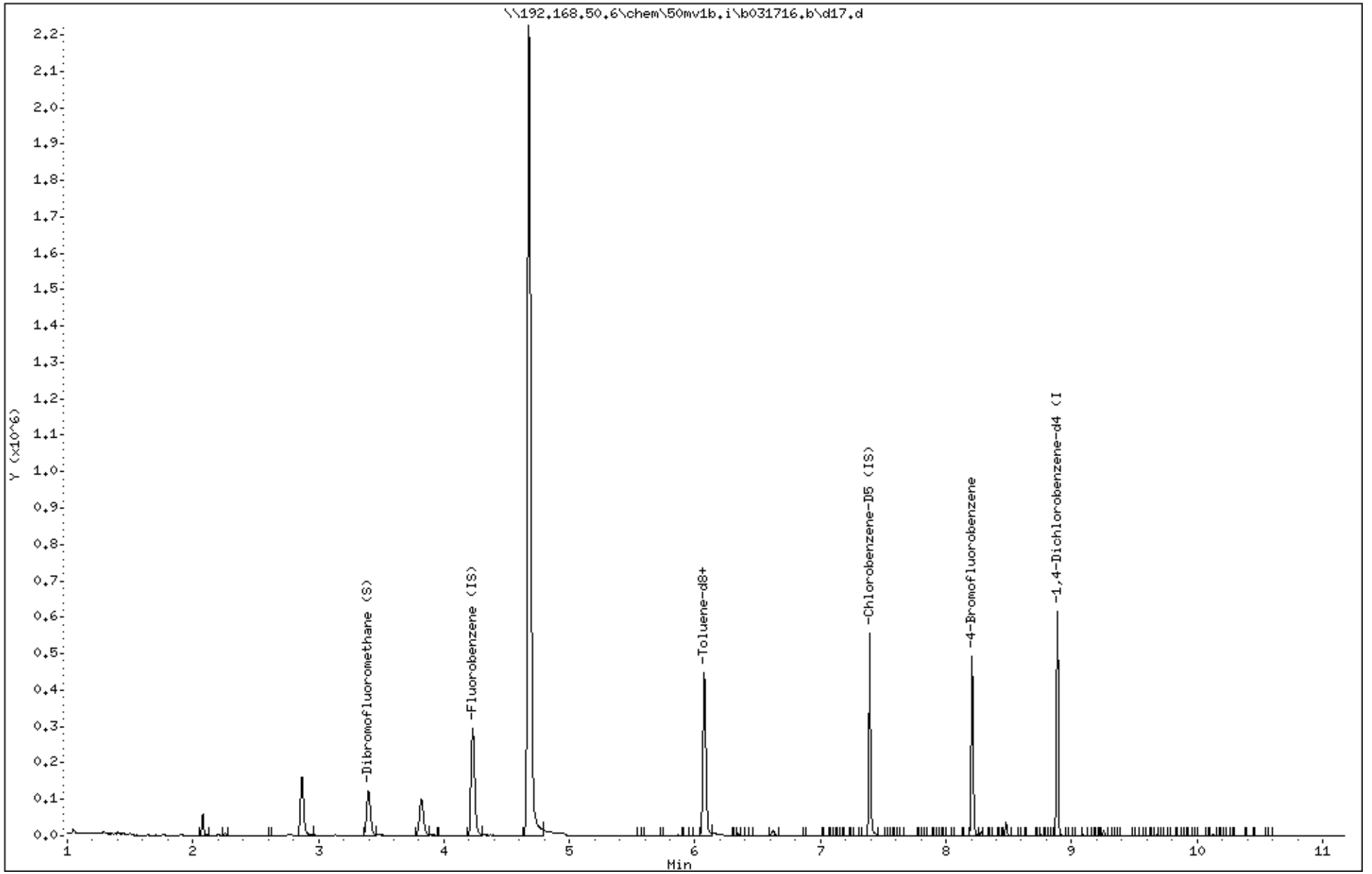
Q - Qualifier signal failed the ratio test.

QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d
Date : 18-MAR-2016 09:58
Client ID: MW-0612-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212010x5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

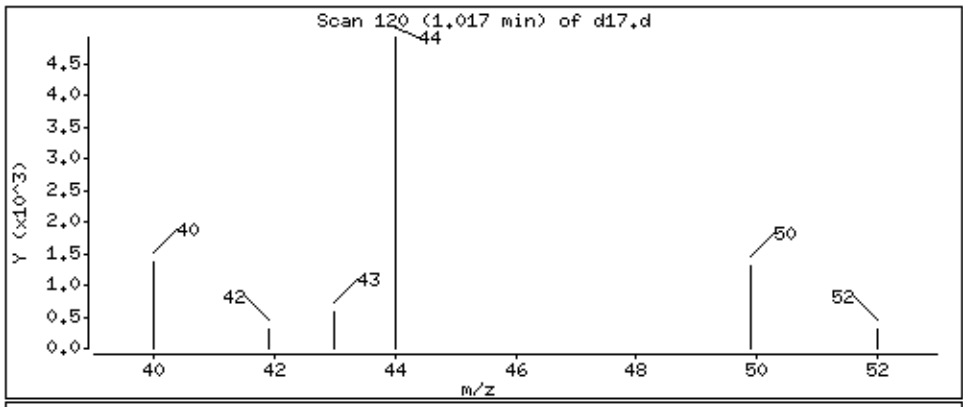
Operator: grm

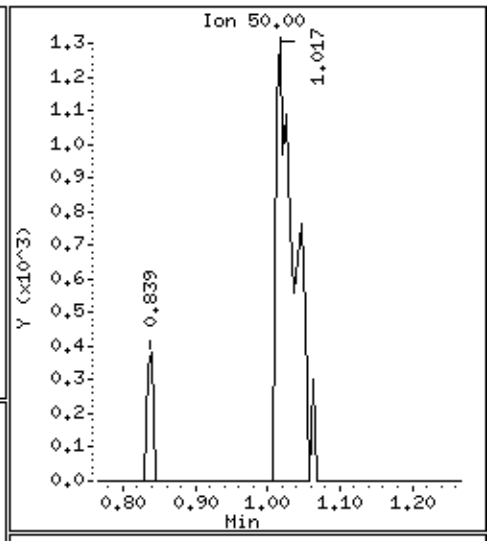
Column phase: DB-624

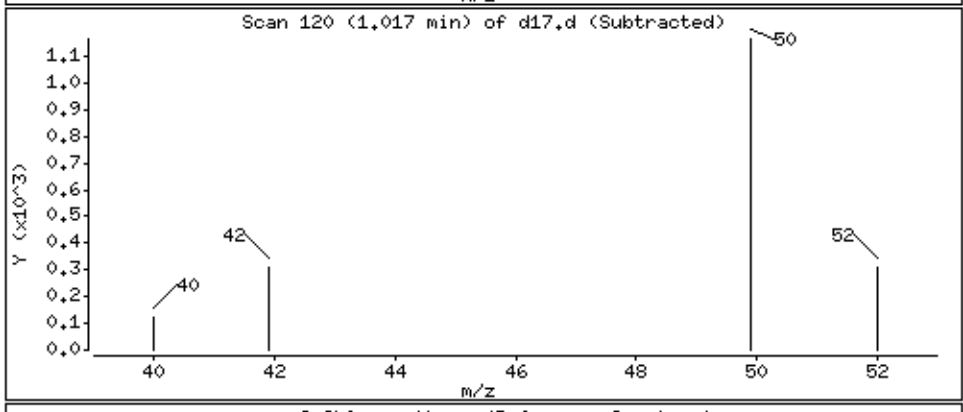
Column diameter: 0.18

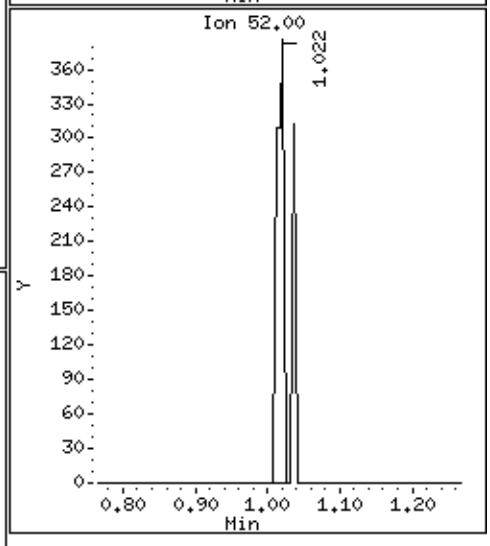
2 Chloromethane

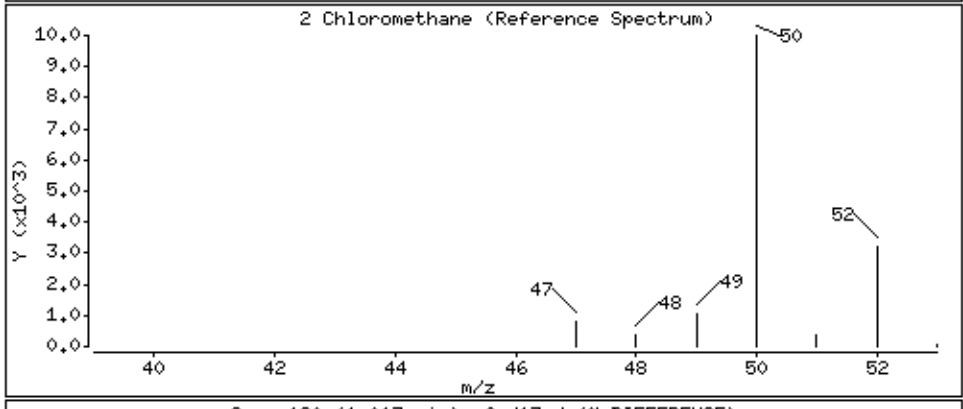
Concentration: 3.56 ppb

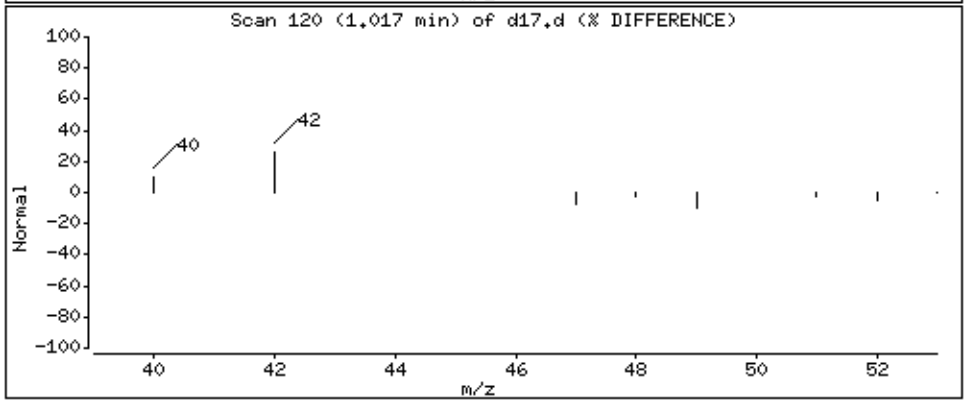












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

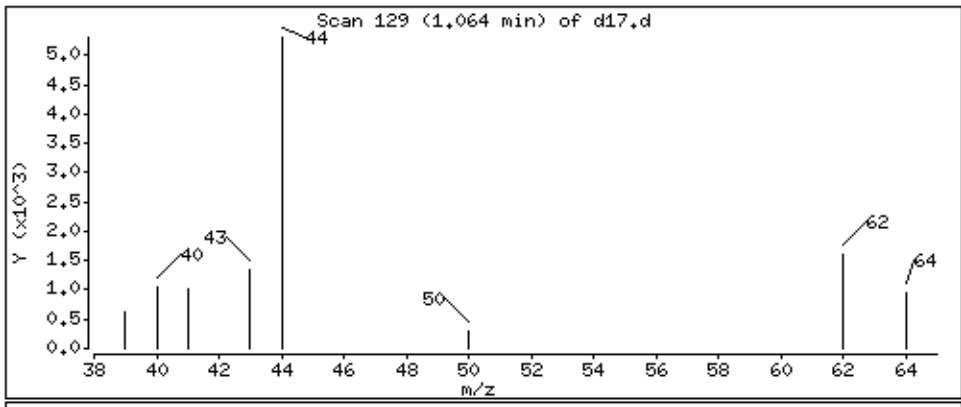
Operator: grm

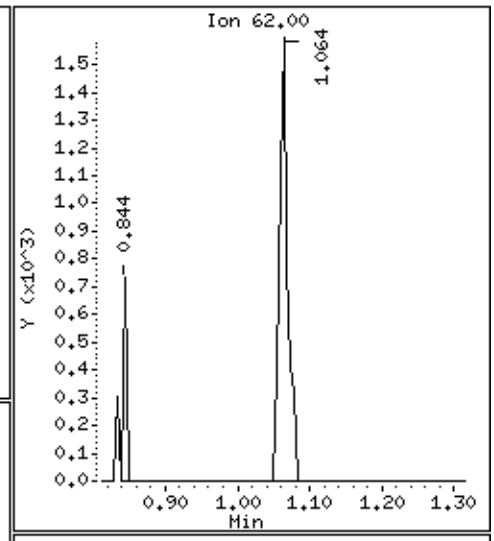
Column phase: DB-624

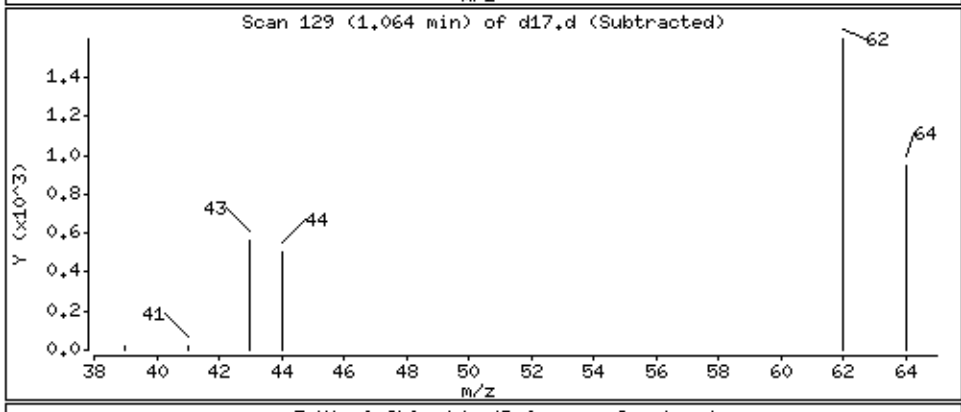
Column diameter: 0.18

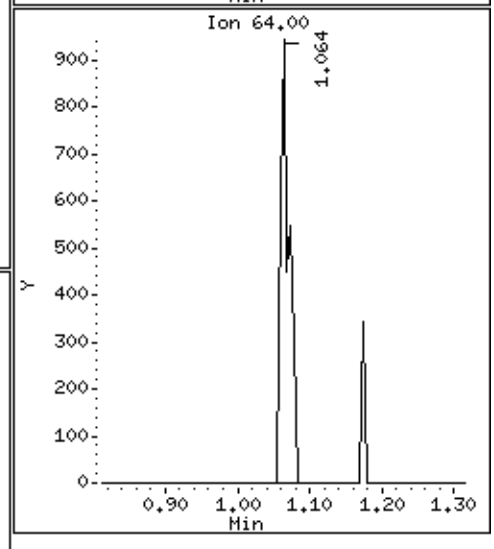
3 Vinyl Chloride

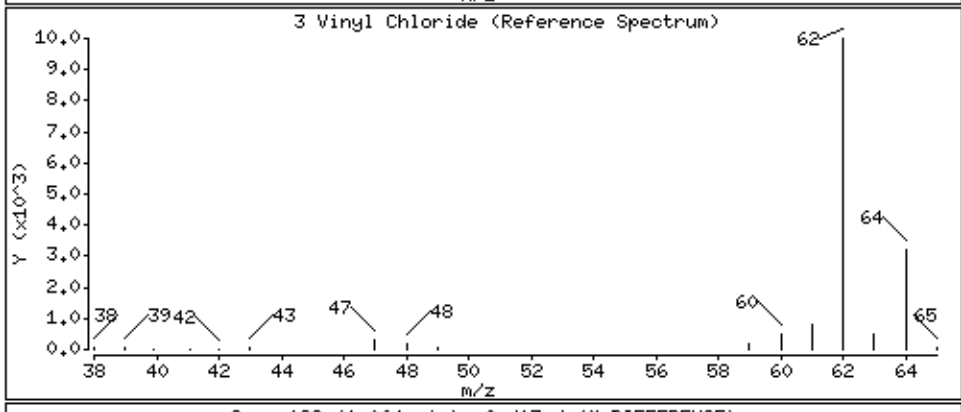
Concentration: 2.75 ppb

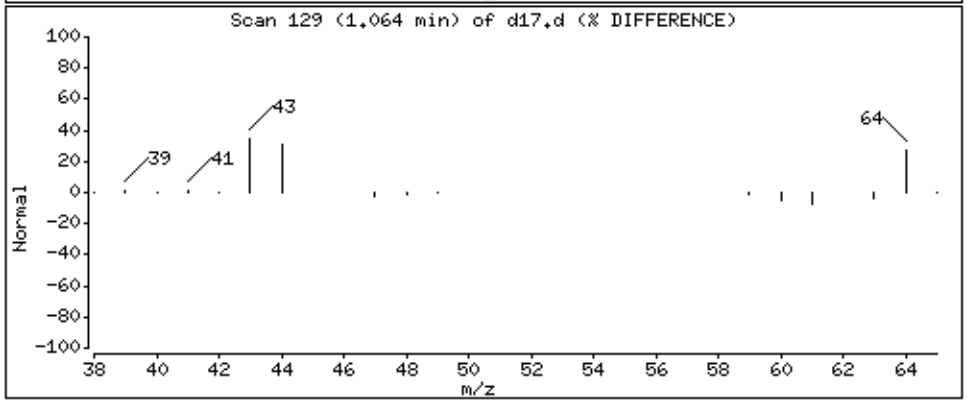












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

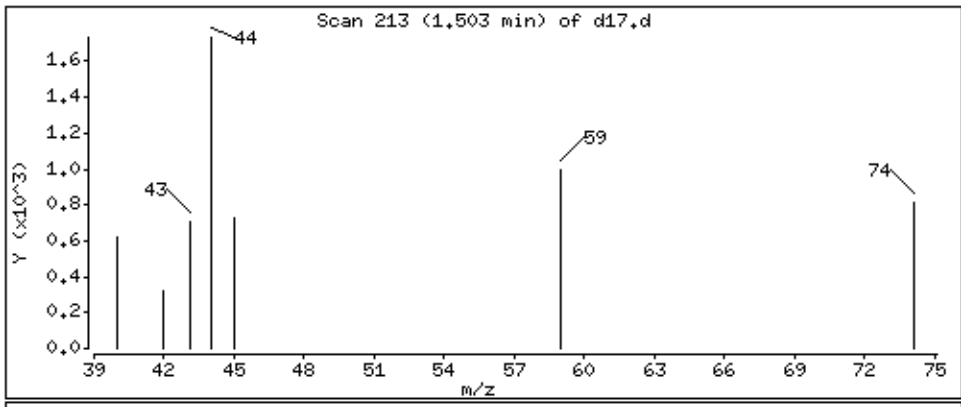
Operator: grm

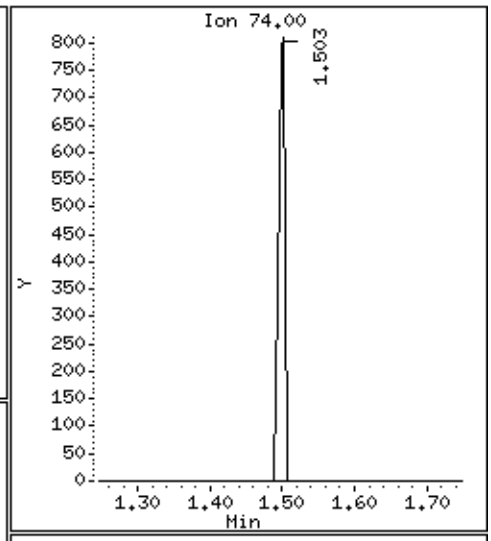
Column phase: DB-624

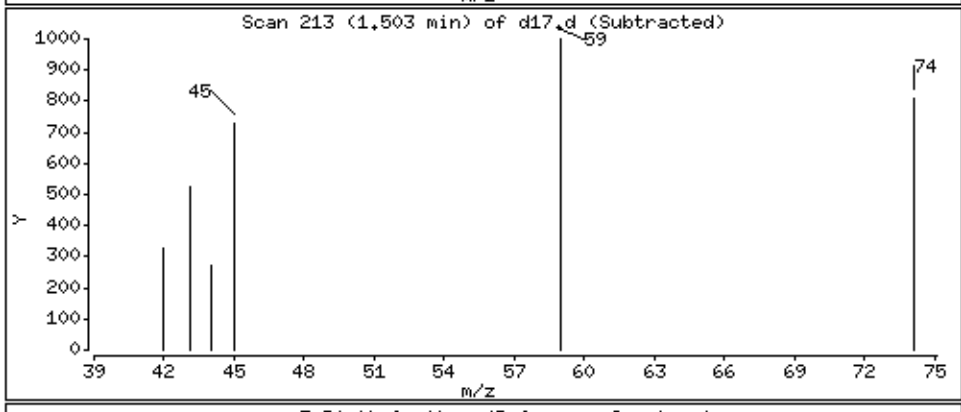
Column diameter: 0.18

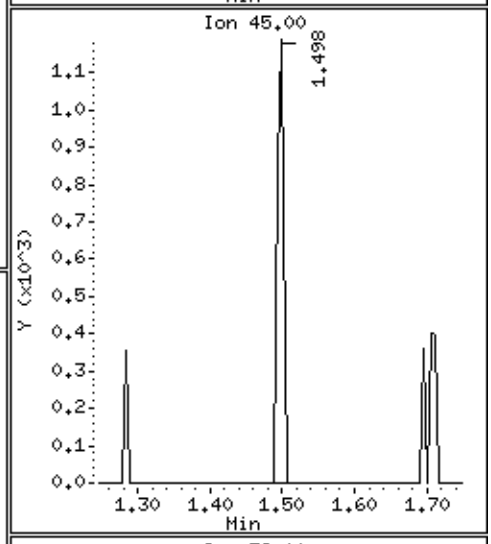
7 Diethyl ether

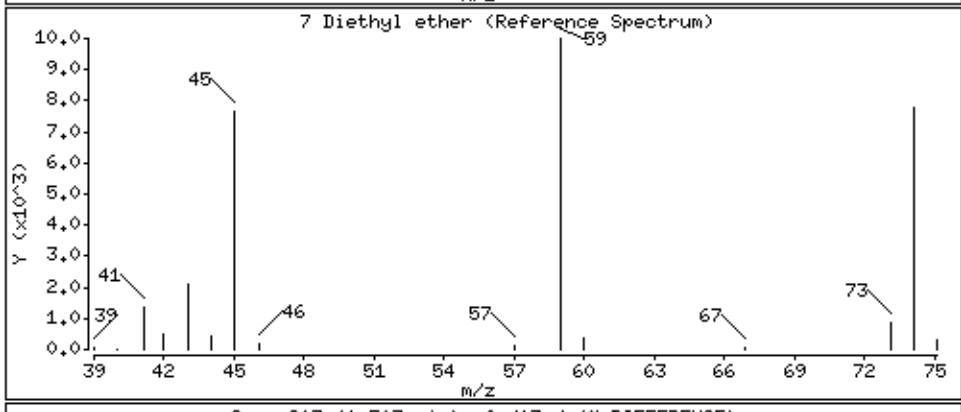
Concentration: 4.45 ppb

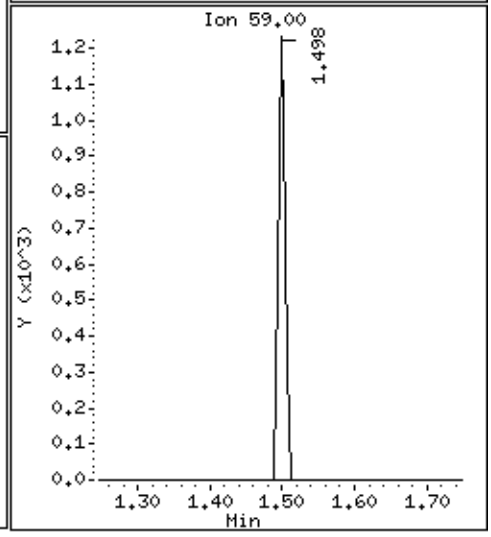


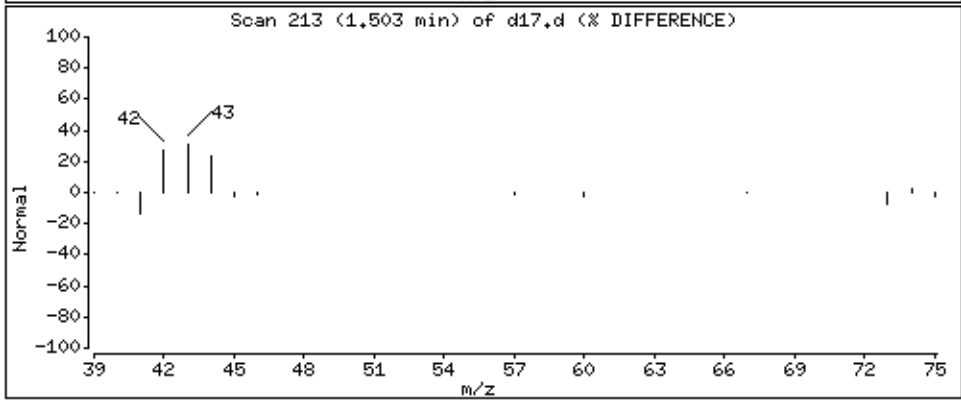












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

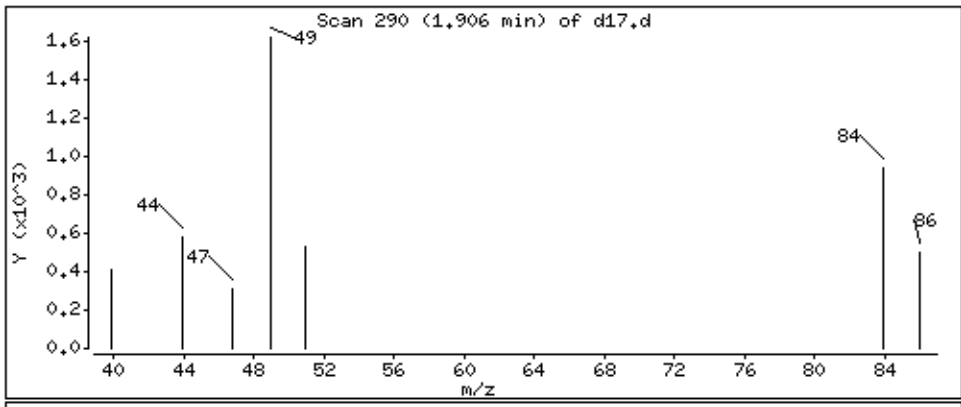
Operator: grm

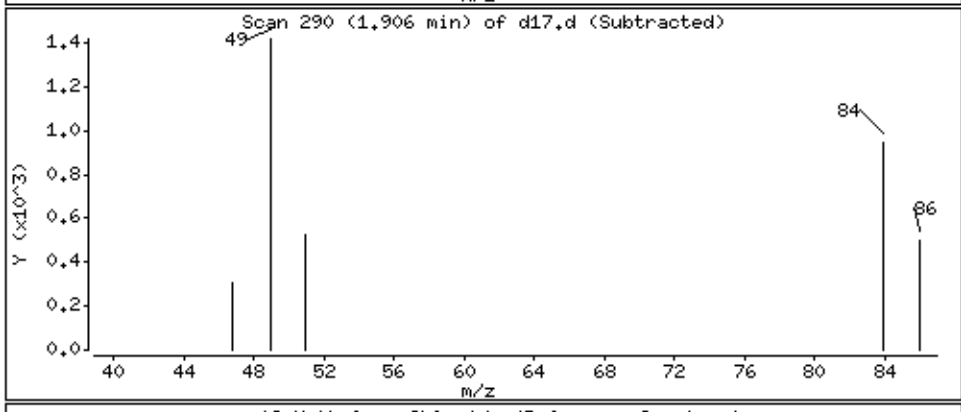
Column phase: DB-624

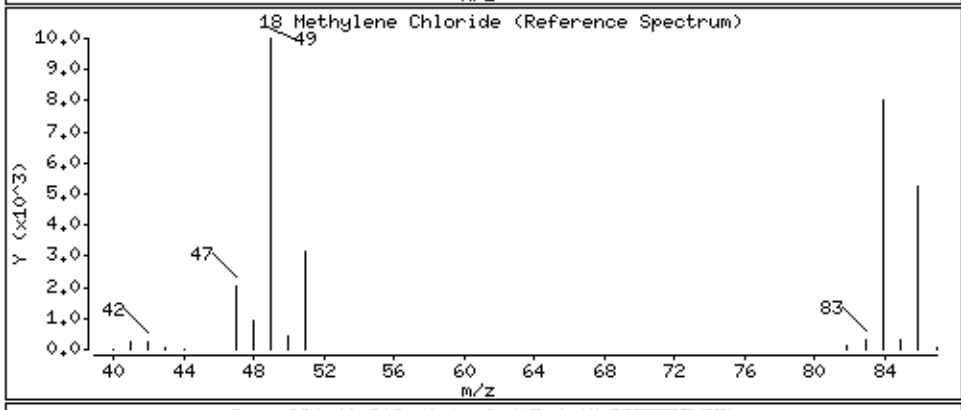
Column diameter: 0.18

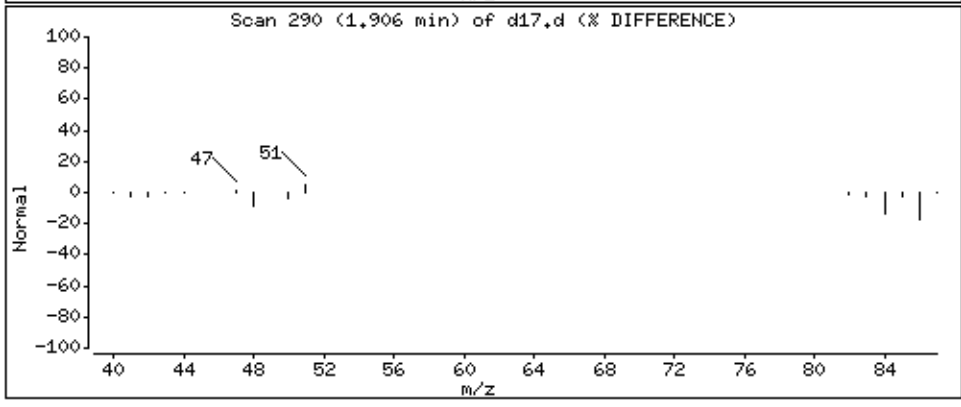
18 Methylene Chloride

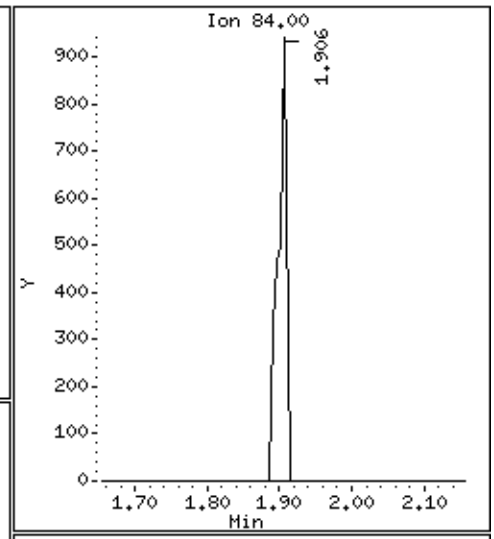
Concentration: 2.72 ppb

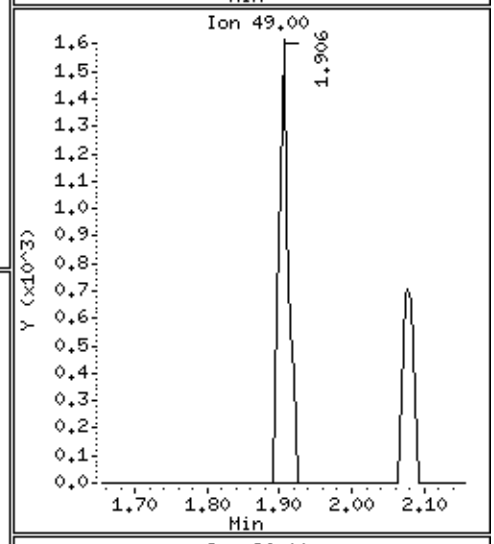


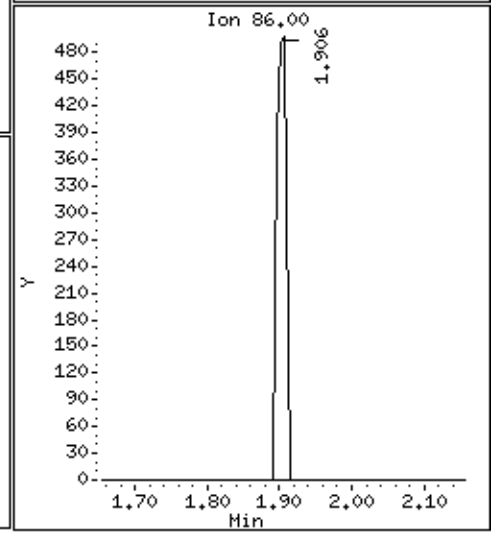












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

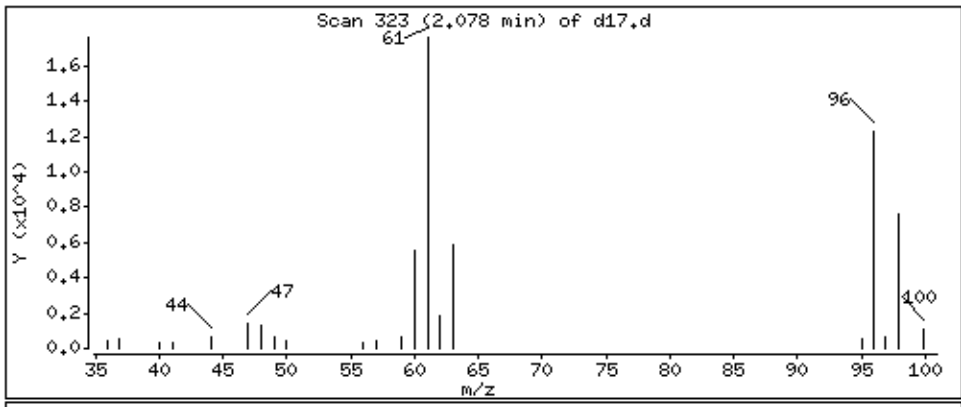
Operator: grm

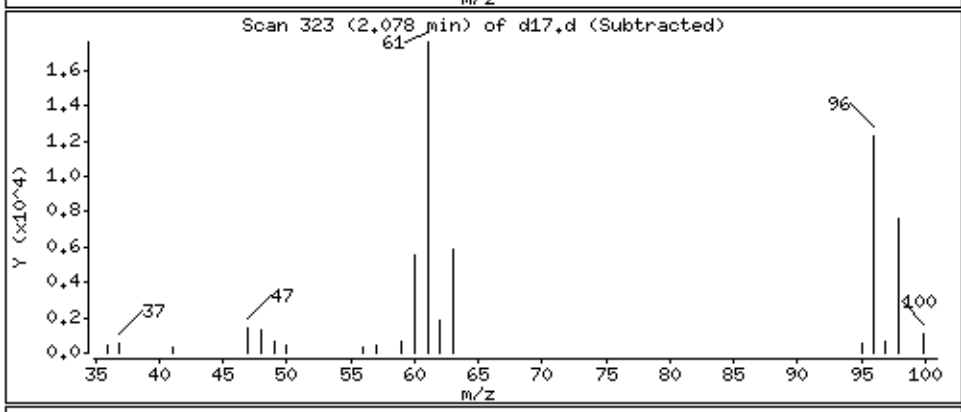
Column phase: DB-624

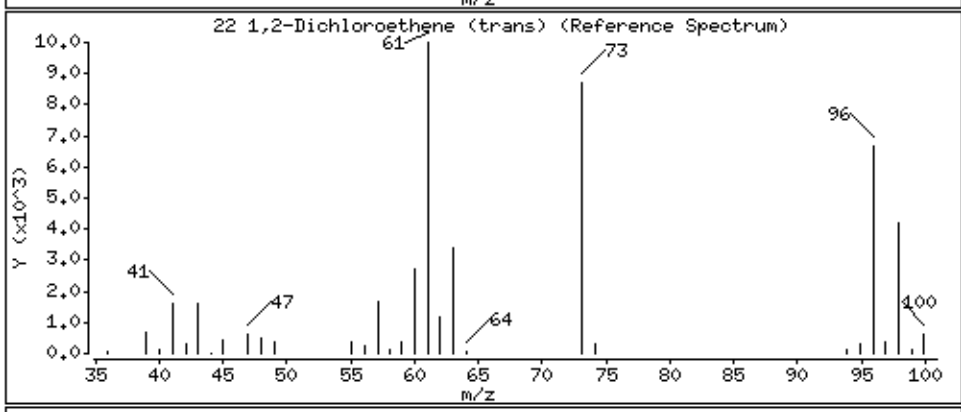
Column diameter: 0.18

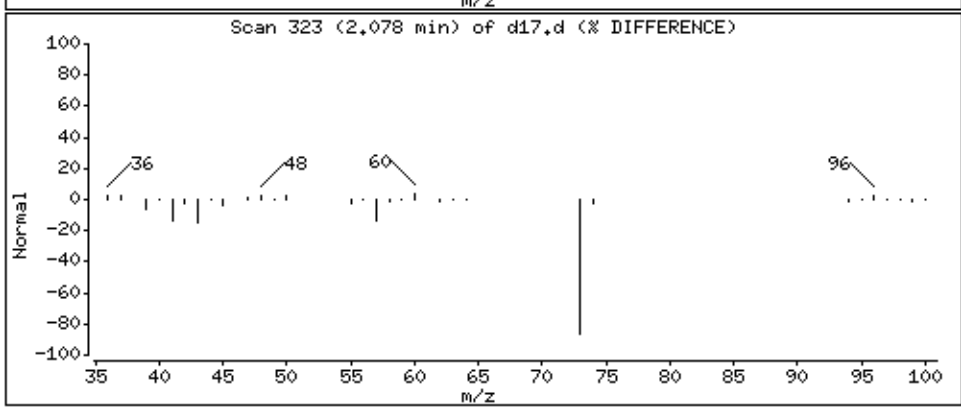
22 1,2-Dichloroethene (trans)

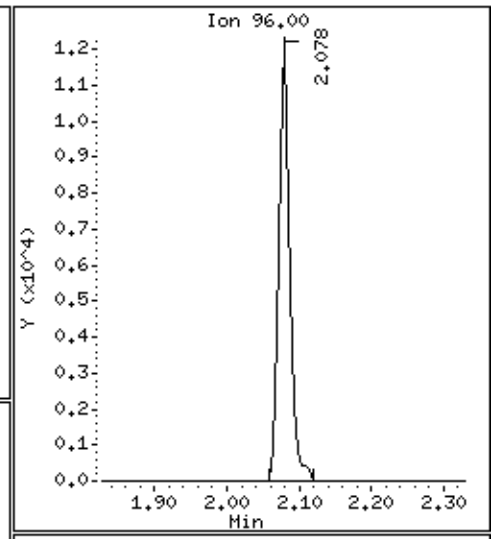
Concentration: 47.2 ppb

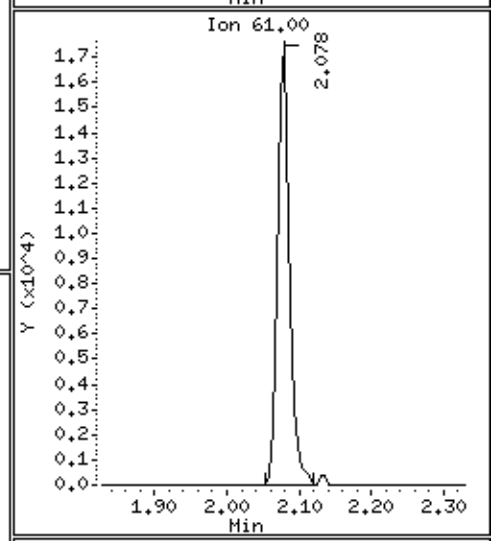


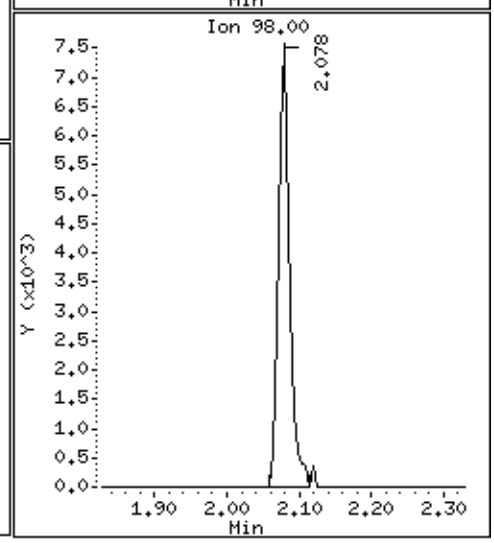












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

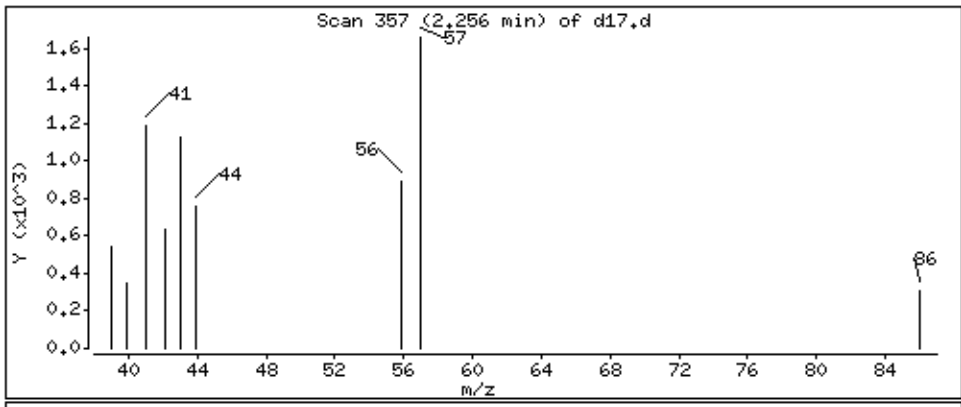
Operator: grm

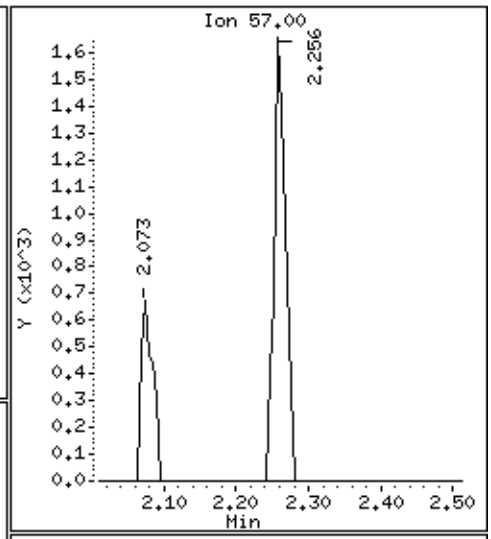
Column phase: DB-624

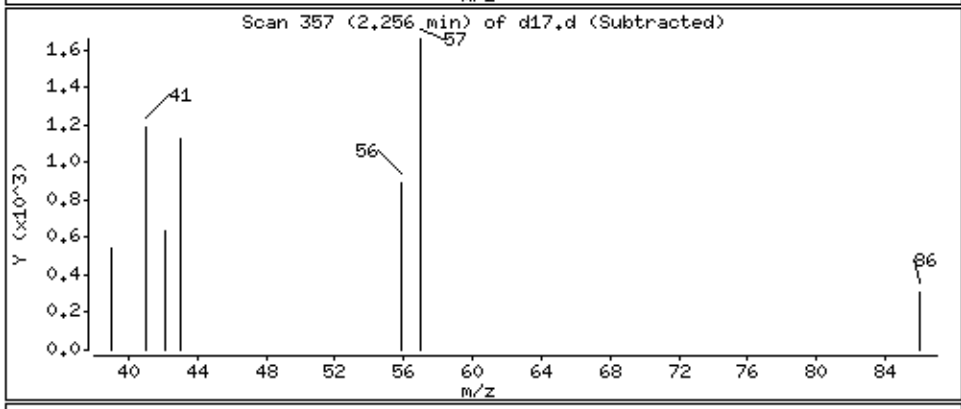
Column diameter: 0.18

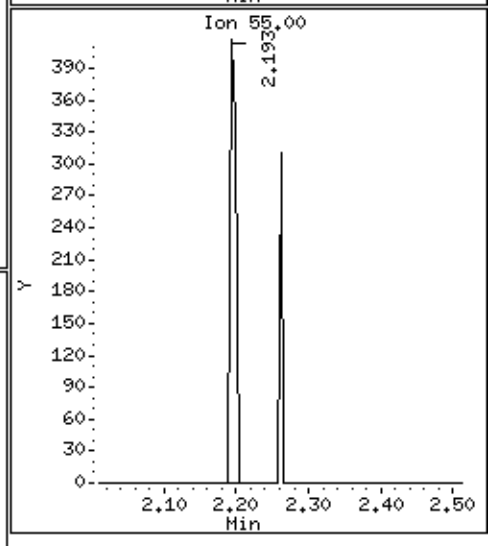
24 n-Hexane

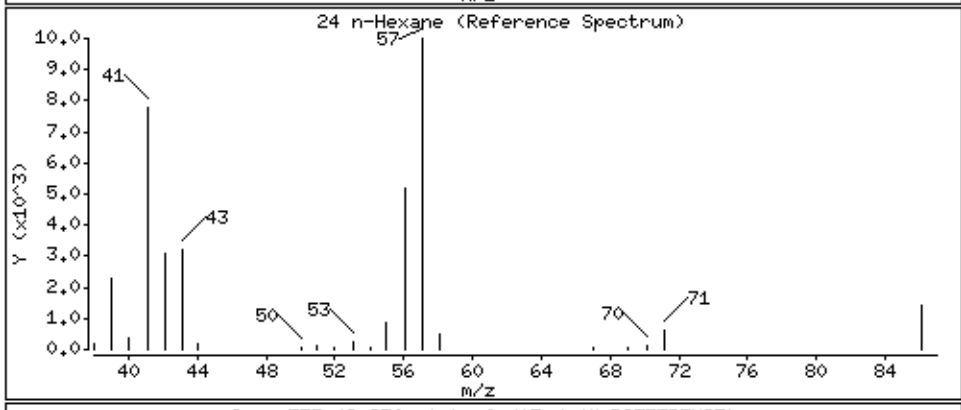
Concentration: 3.78 ppb

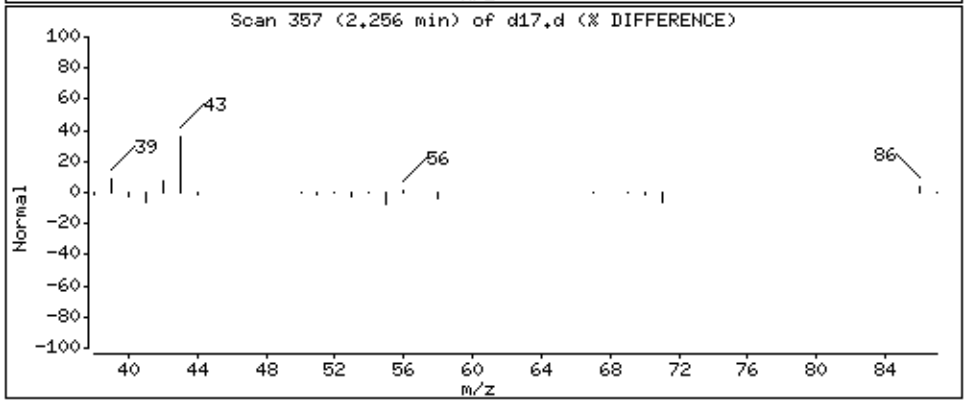












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

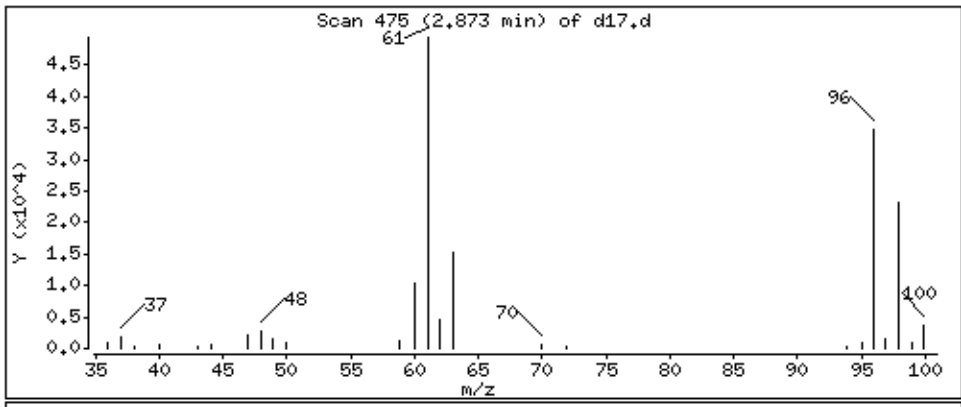
Operator: grm

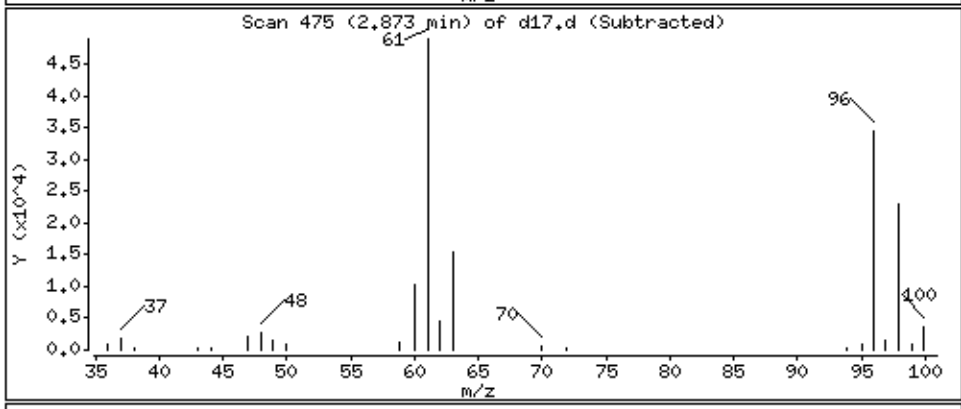
Column phase: DB-624

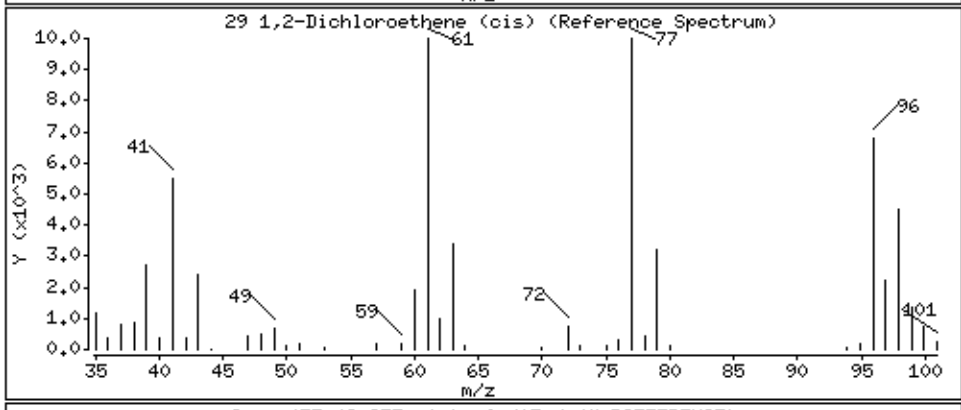
Column diameter: 0.18

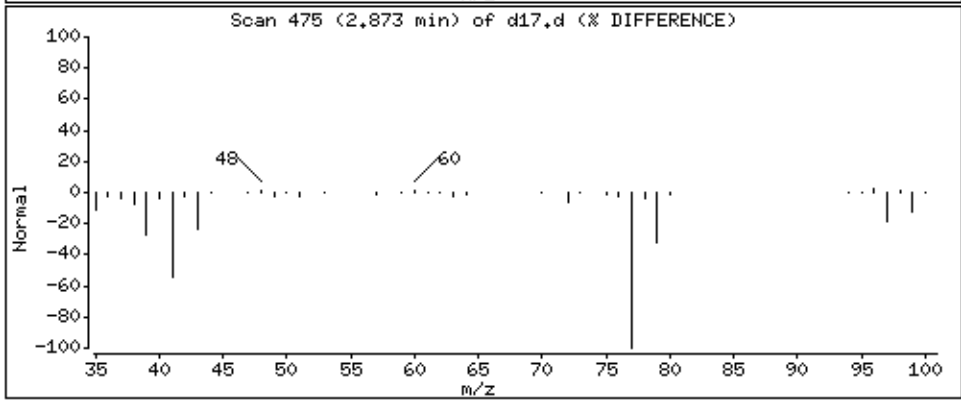
29 1,2-Dichloroethene (cis)

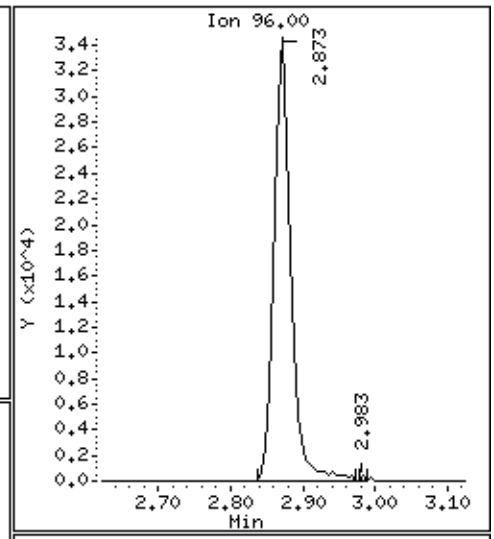
Concentration: 193 ppb

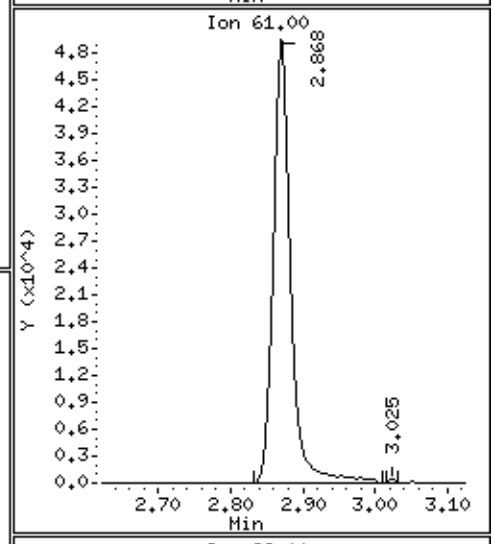


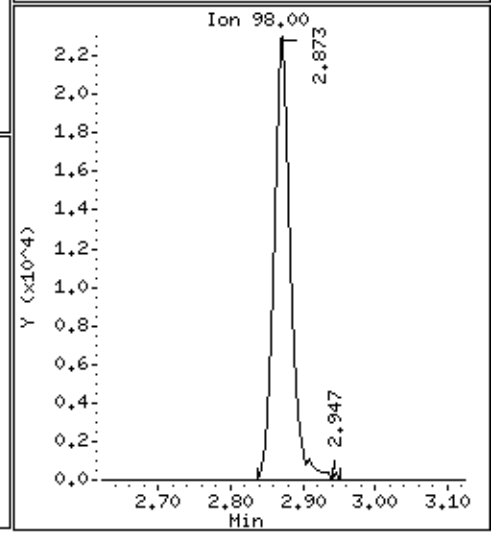












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

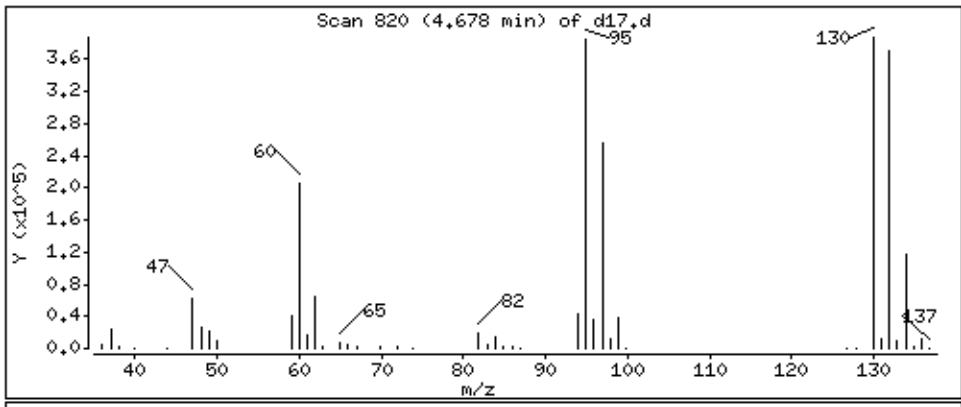
Operator: grm

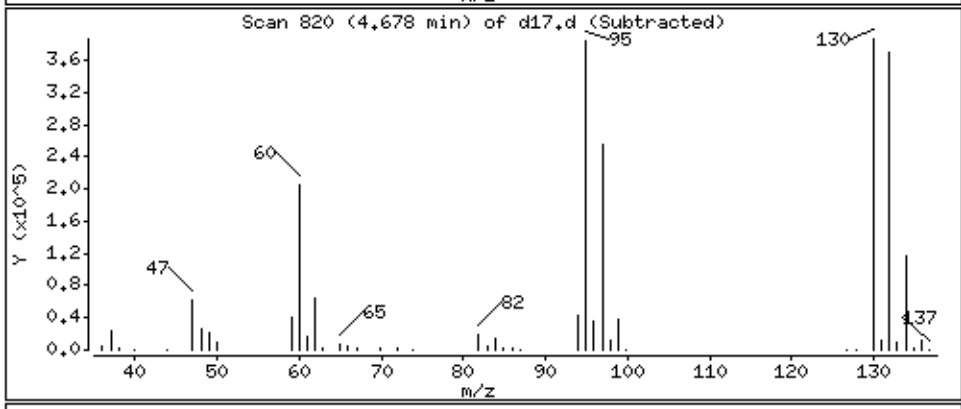
Column phase: DB-624

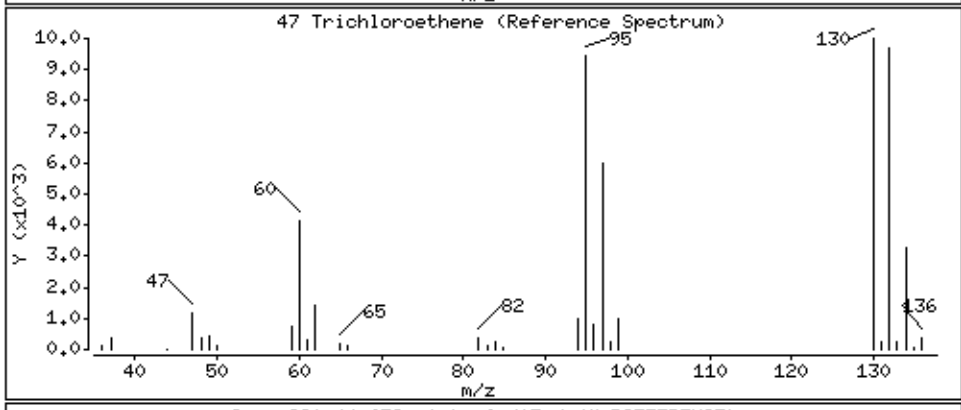
Column diameter: 0.18

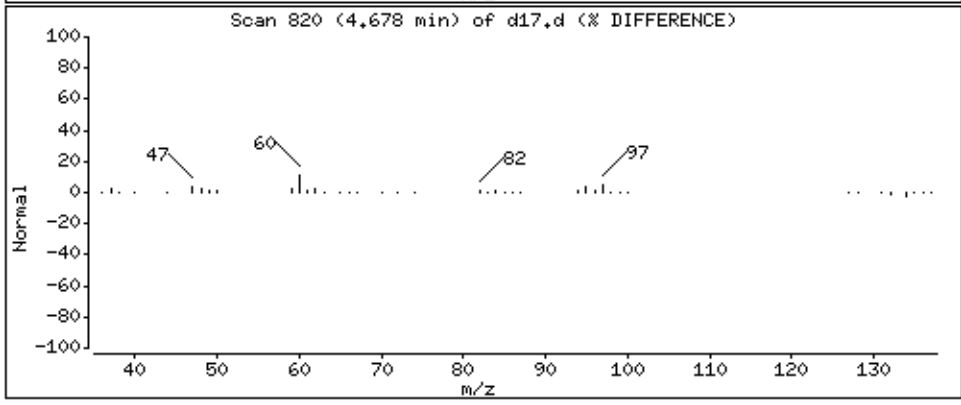
47 Trichloroethene

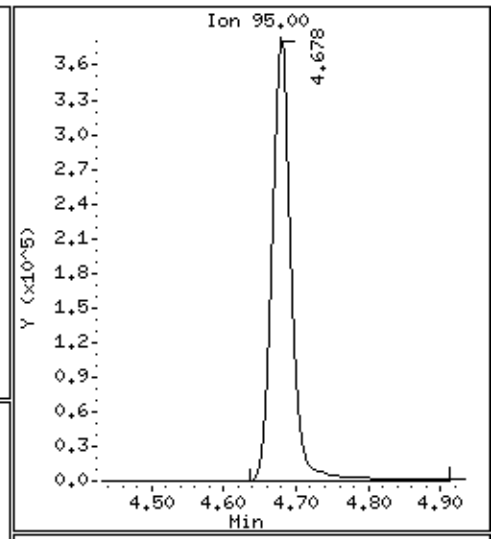
Concentration: 2470 ppb

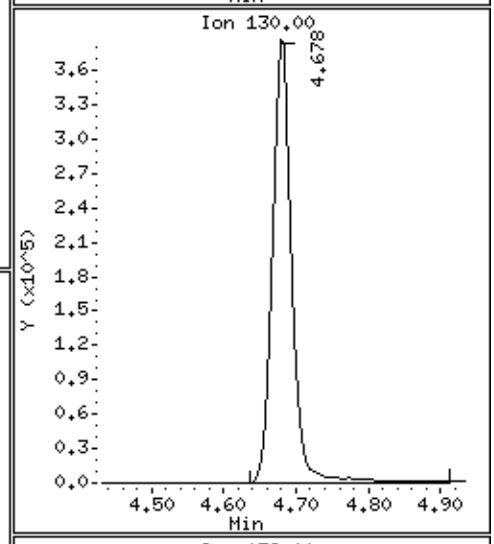


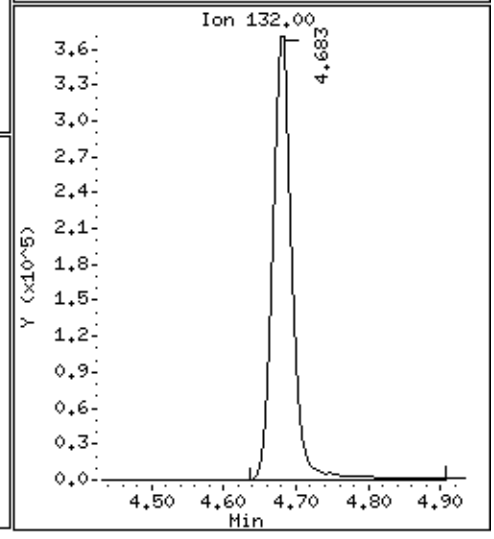












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d17.d

Date : 18-MAR-2016 09:58

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x5

Purge Volume: 5.0

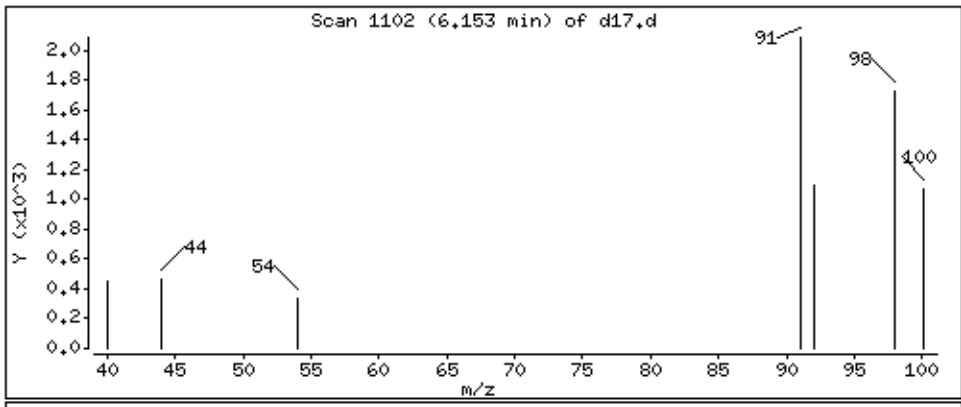
Operator: grm

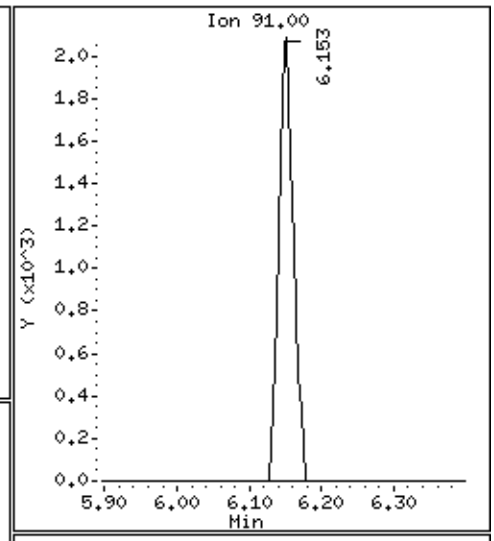
Column phase: DB-624

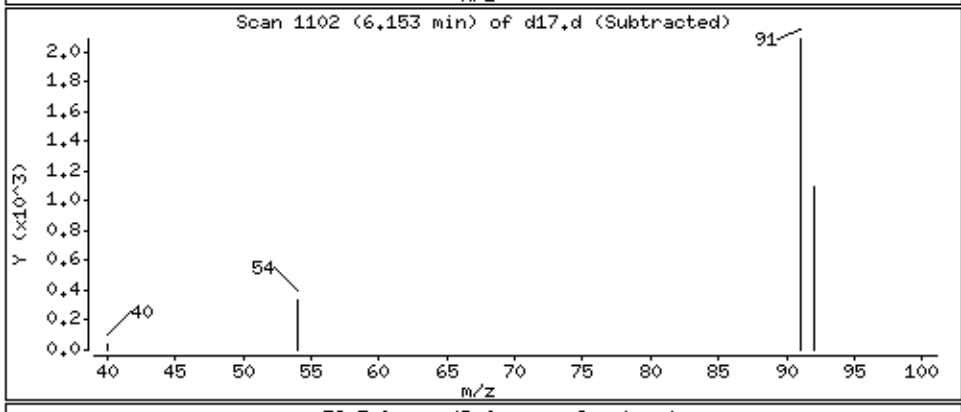
Column diameter: 0.18

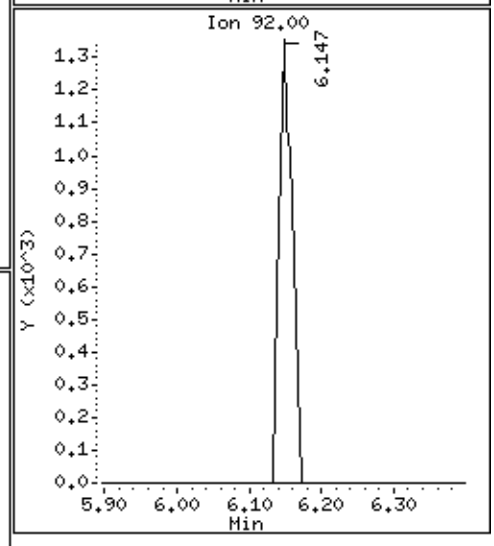
58 Toluene

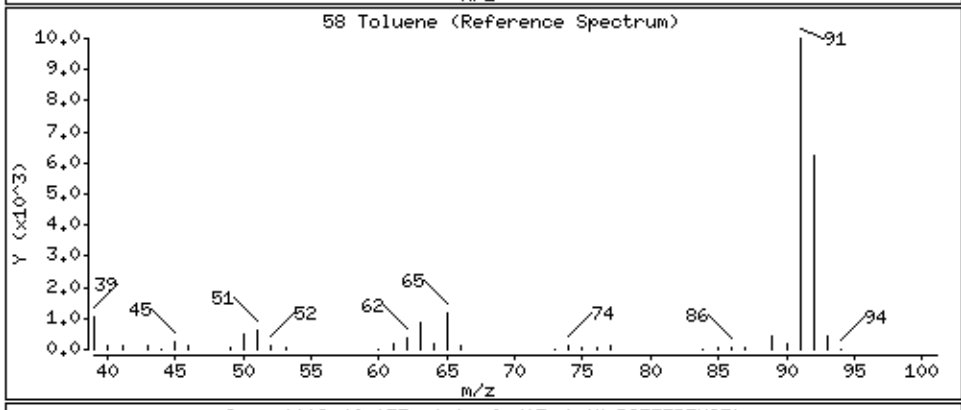
Concentration: 2.38 ppb

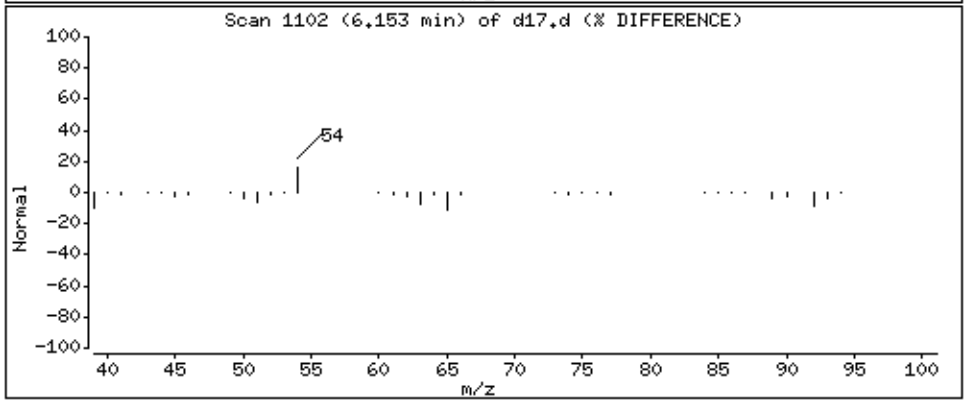












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d17.d
Injection Date: 18-MAR-2016 09:58
Instrument: 50mv1b.i
Lab Sample ID: 50140212010
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0612-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 10:33 Lab Sample ID: 50140212010

Date Analyzed: 03/18/2016 10:33 Lab File ID: B031716.B\D18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 25 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	2380	

Pace Analytical Services, Inc.

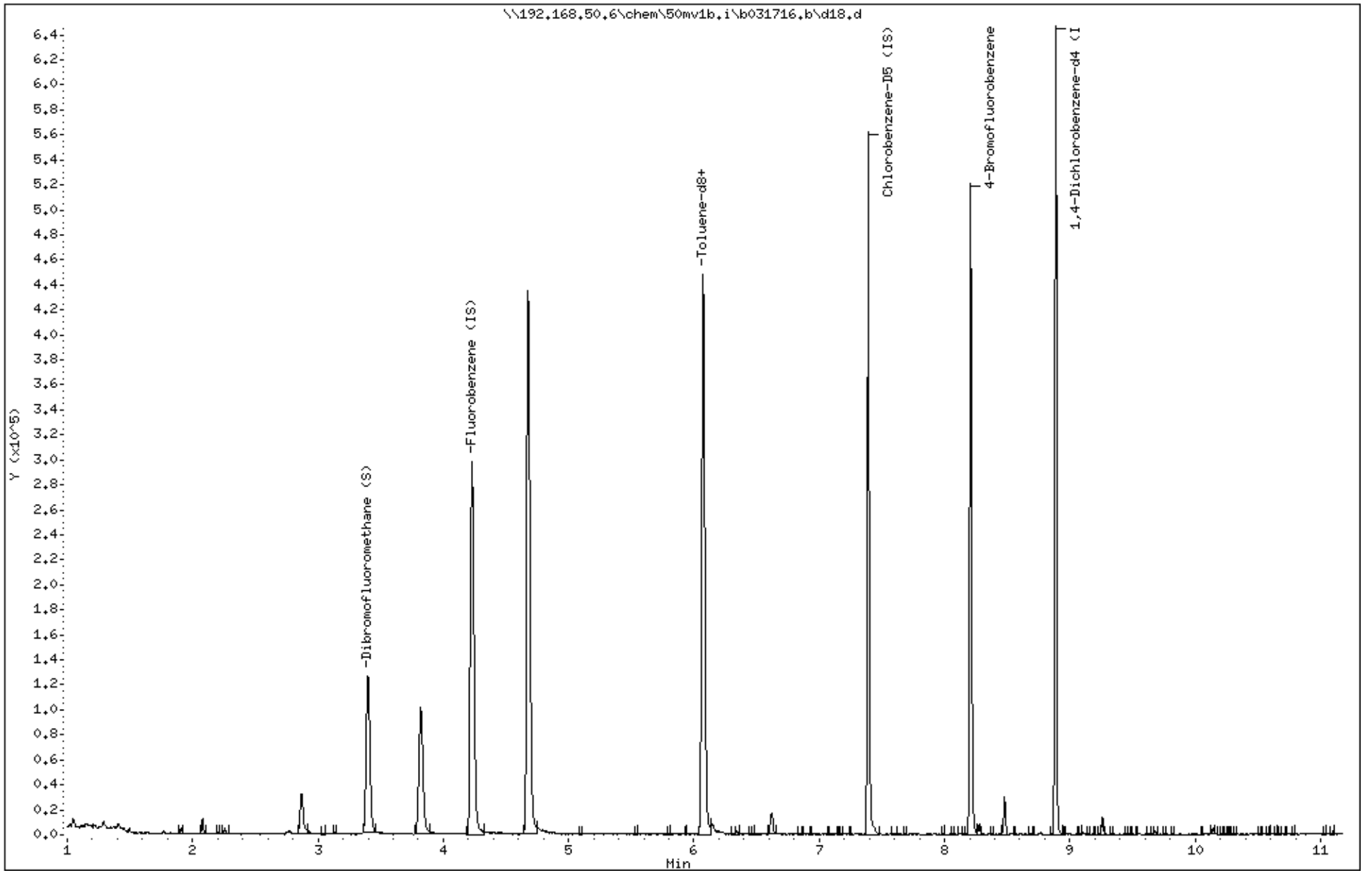
Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d
Lab Smp Id: 50140212010 Client Smp ID: MW-0612-S1(030916)
Inj Date : 18-MAR-2016 10:33
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212010x25
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 51
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.497	1.496	(0.354)	559	0.80855	20.2	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	1312	0.79573	19.9	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	2686	1.76204	44.0	
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.679)	11838	7.45761	186	
$	38 Dibromofluoromethane (S)	113	3.396	3.400	(0.802)	81279	54.2019	54.2	
*	46 Fluorobenzene (IS)	96	4.233	4.232	(1.000)	288773	50.0000		
	47 Trichloroethene	95	4.677	4.682	(1.105)	146670	95.0331	2380	
$	57 Toluene-d8	98	6.074	6.073	(0.822)	275206	48.9396	48.9	
	58 Toluene	91	6.152	6.146	(0.832)	2781	0.40320	10.1	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.391	(1.000)	216572	50.0000		
$	76 4-Bromofluorobenzene	95	8.208	8.207	(1.110)	102783	52.2803	52.3	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.888	8.881	(1.000)	113059	50.0000		

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d
Date : 18-MAR-2016 10:33
Client ID: MW-0612-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212010x25
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

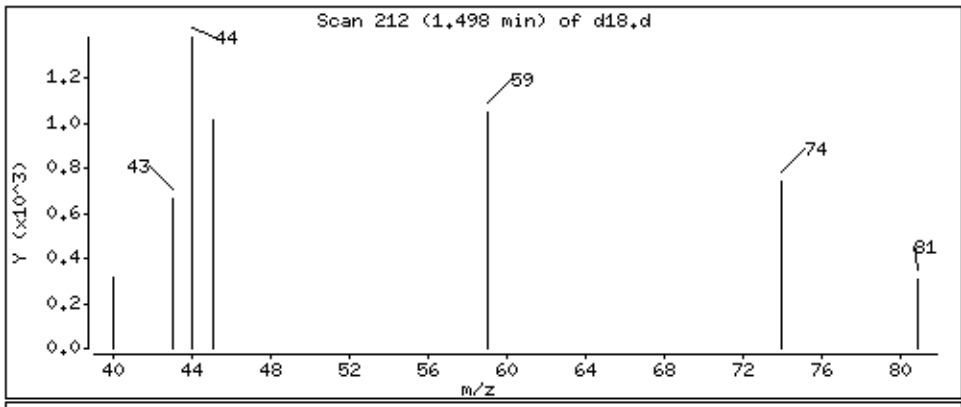
Operator: grm

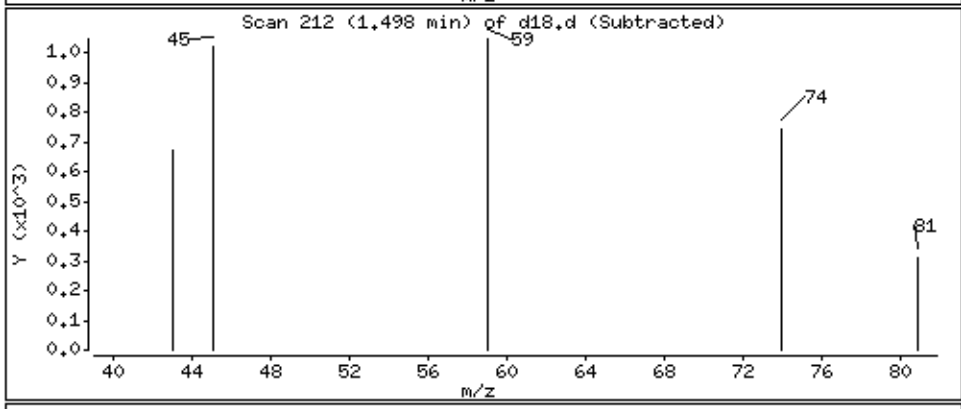
Column phase: DB-624

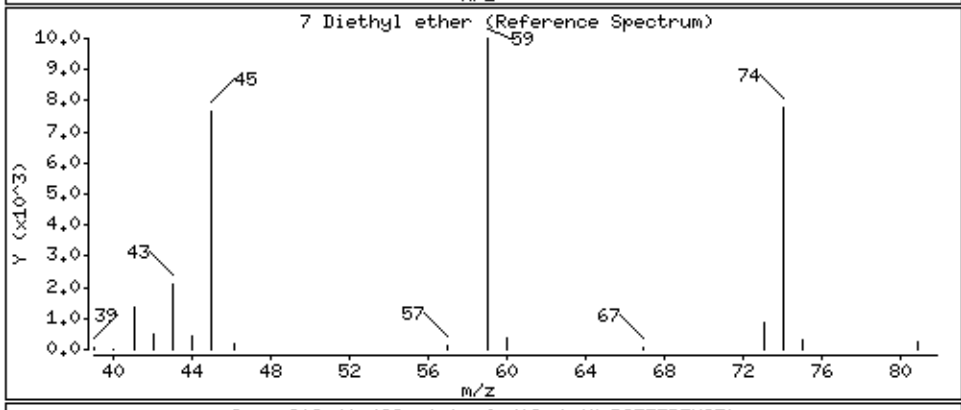
Column diameter: 0.18

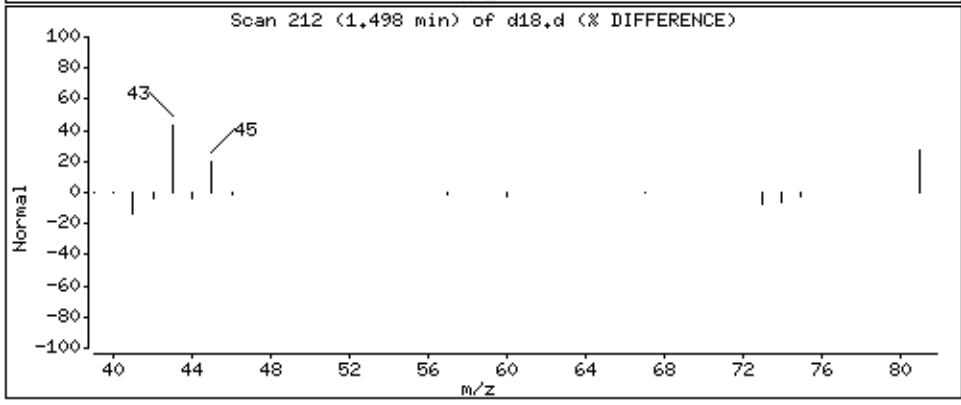
7 Diethyl ether

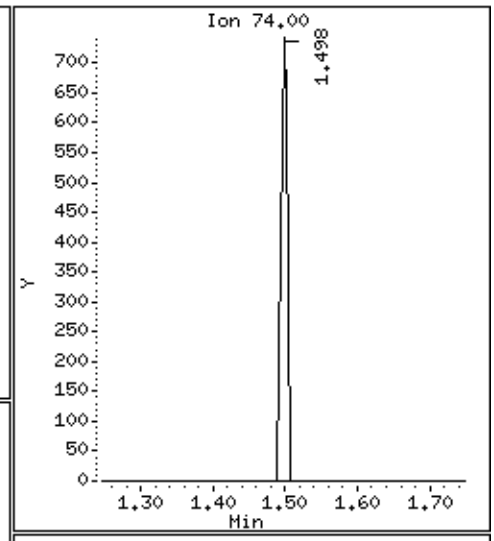
Concentration: 20.2 ppb

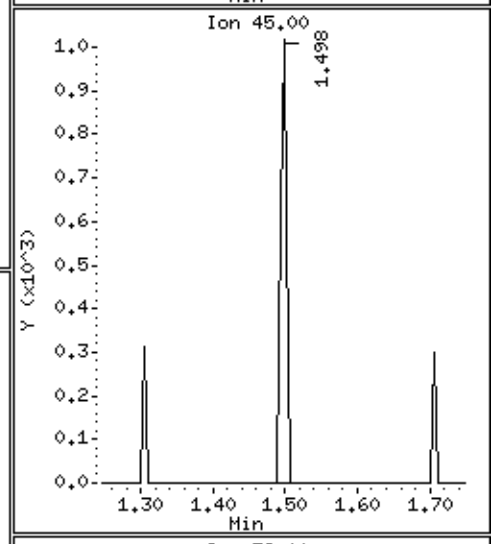


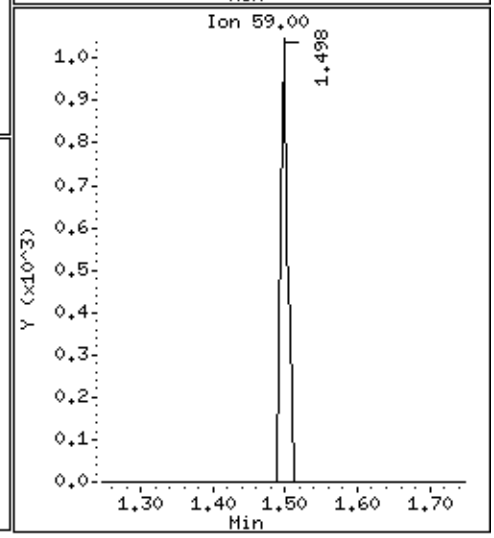












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

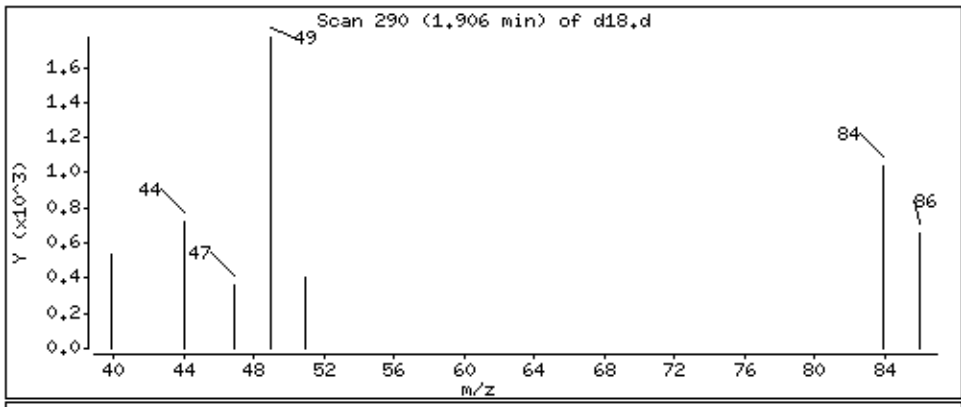
Operator: grm

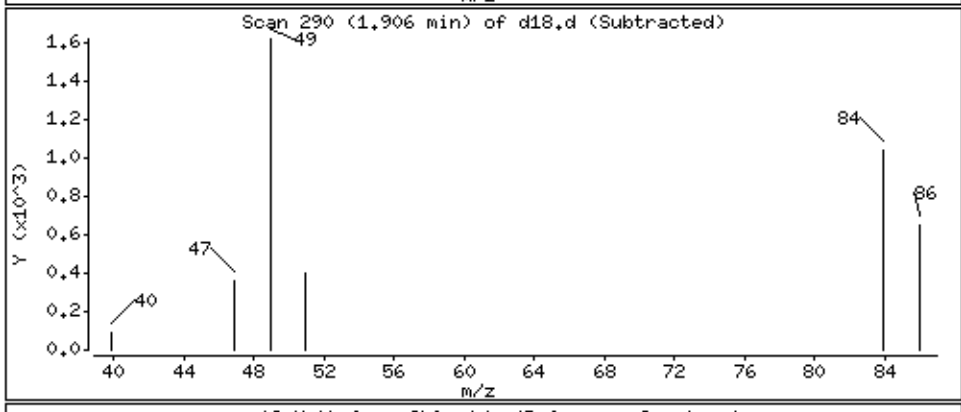
Column phase: DB-624

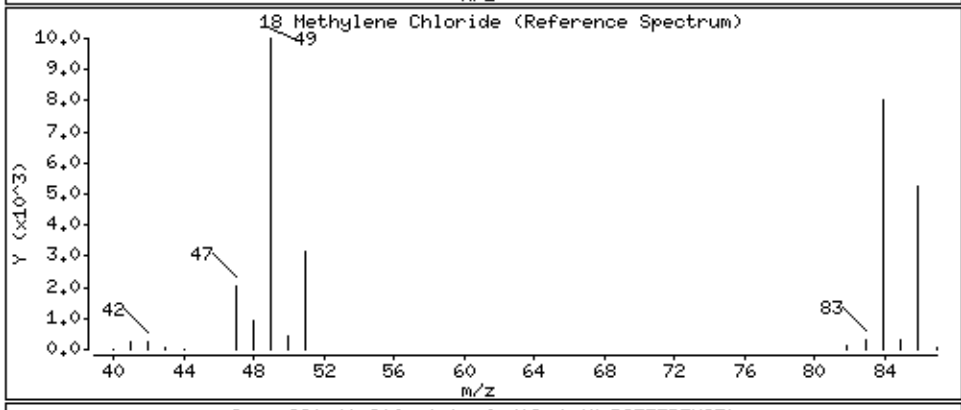
Column diameter: 0.18

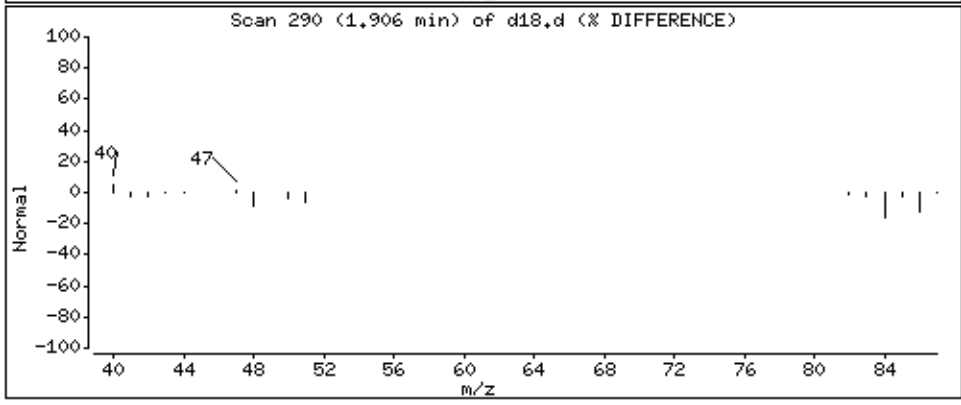
18 Methylene Chloride

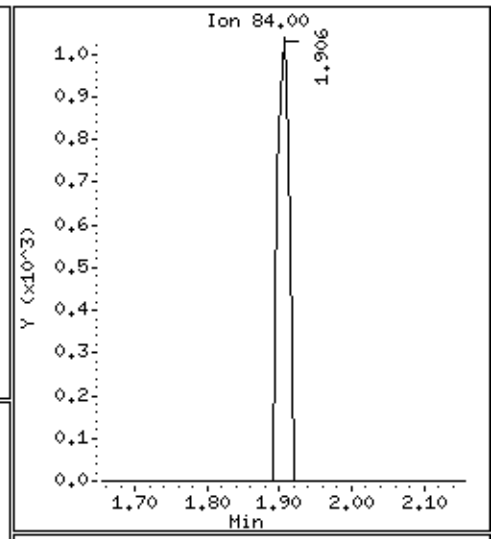
Concentration: 19.9 ppb

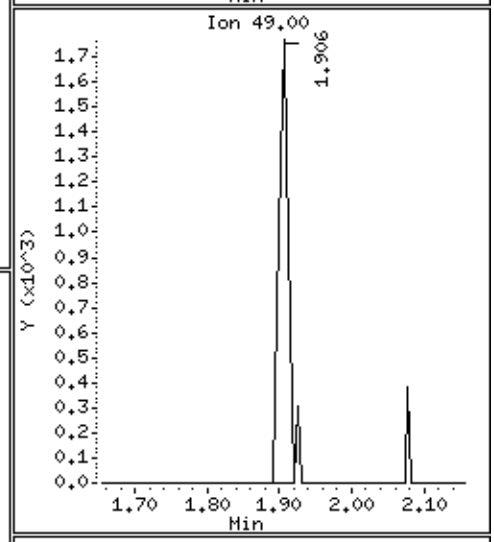


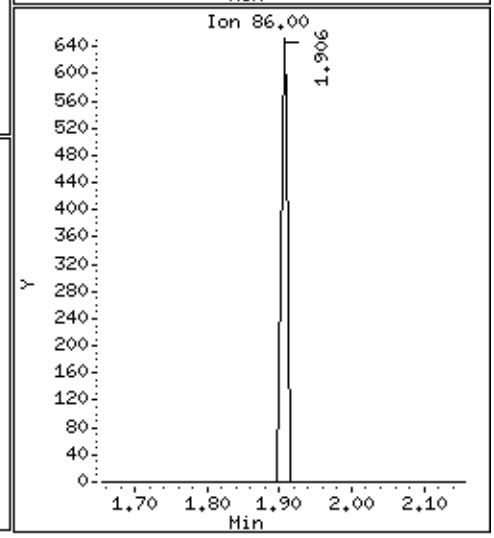












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

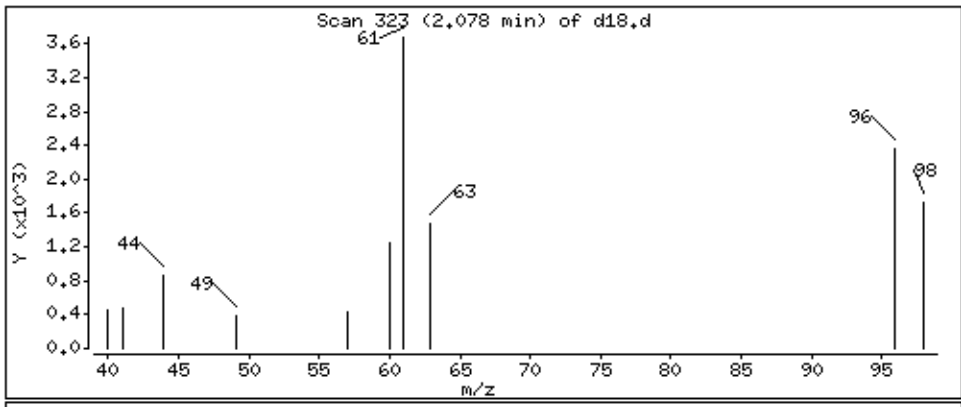
Operator: grm

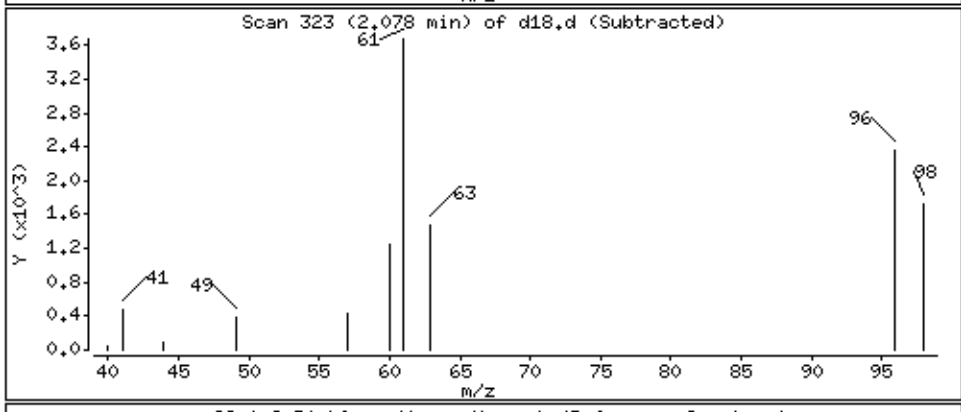
Column phase: DB-624

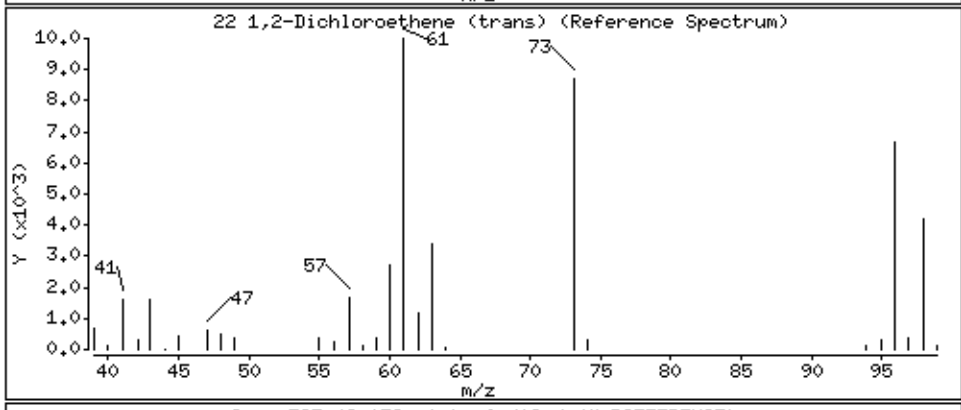
Column diameter: 0.18

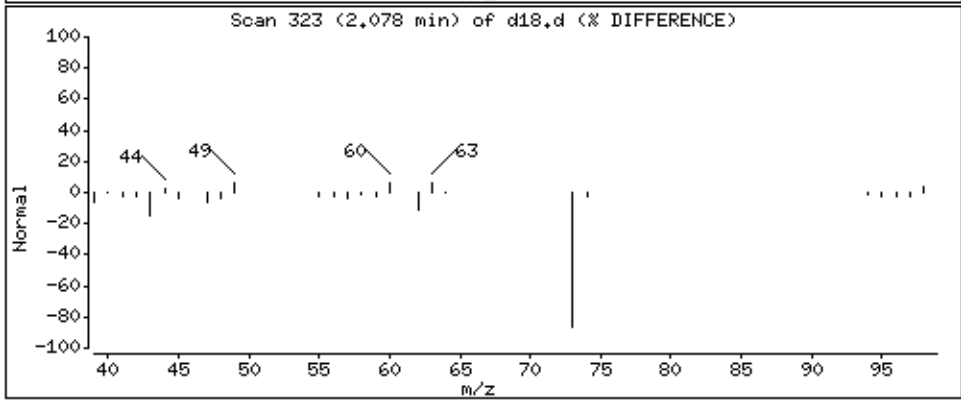
22 1,2-Dichloroethene (trans)

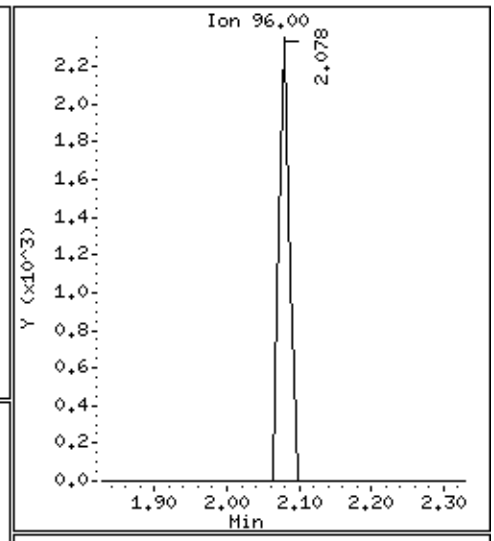
Concentration: 44.0 ppb

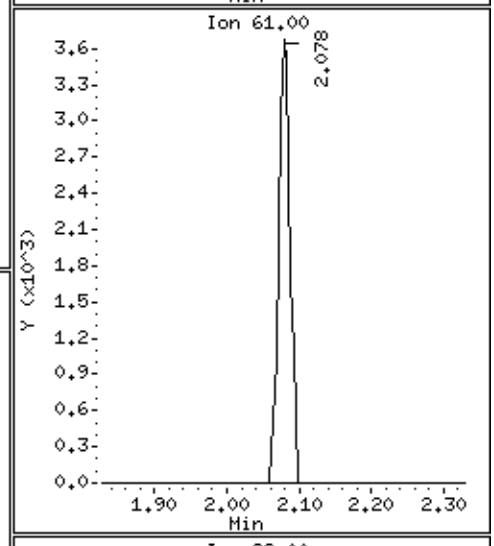


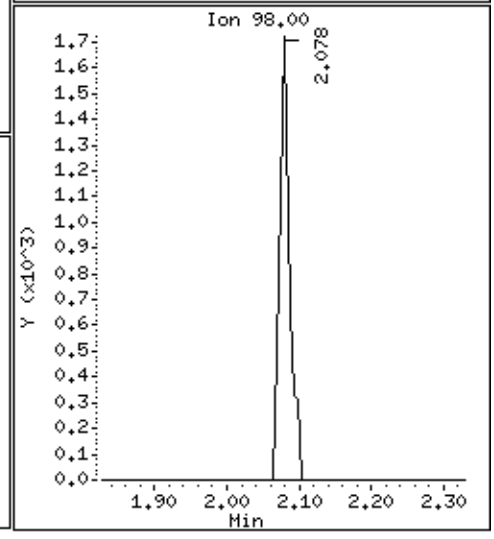












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

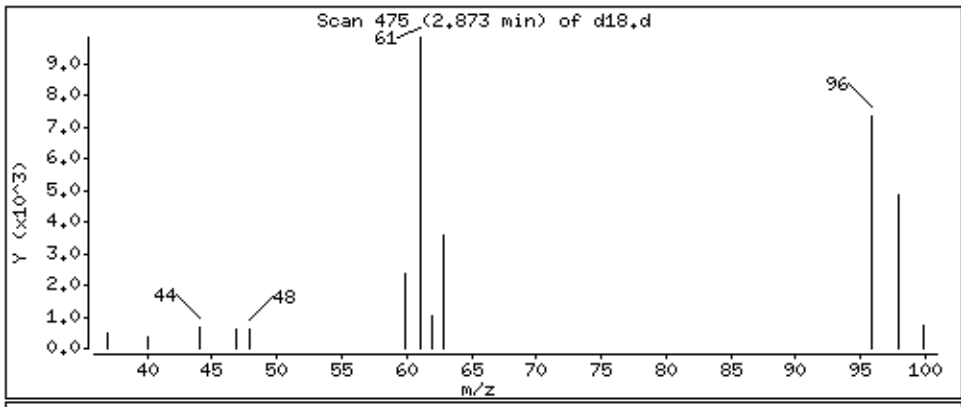
Operator: grm

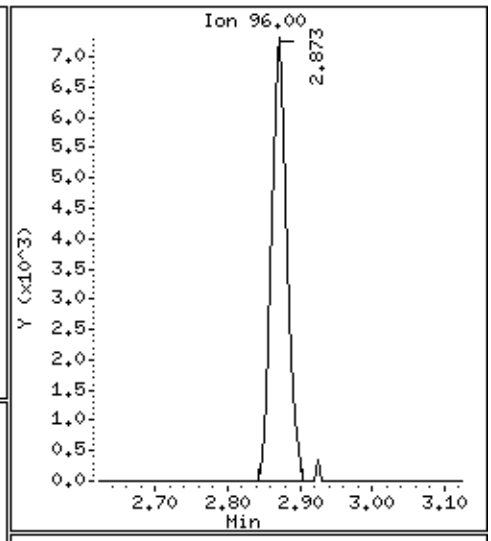
Column phase: DB-624

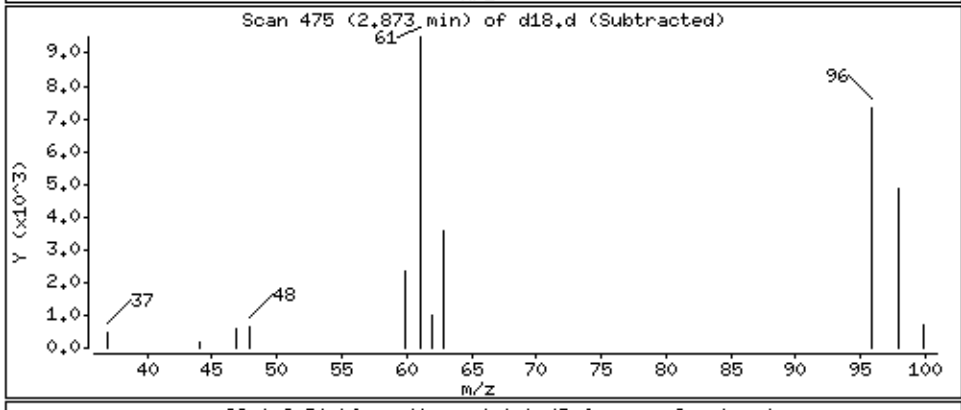
Column diameter: 0.18

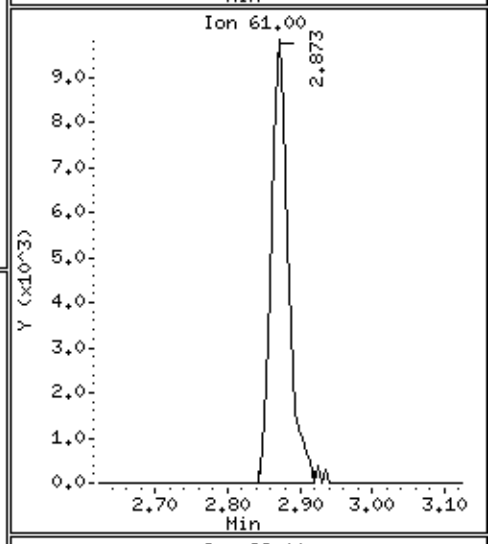
29 1,2-Dichloroethene (cis)

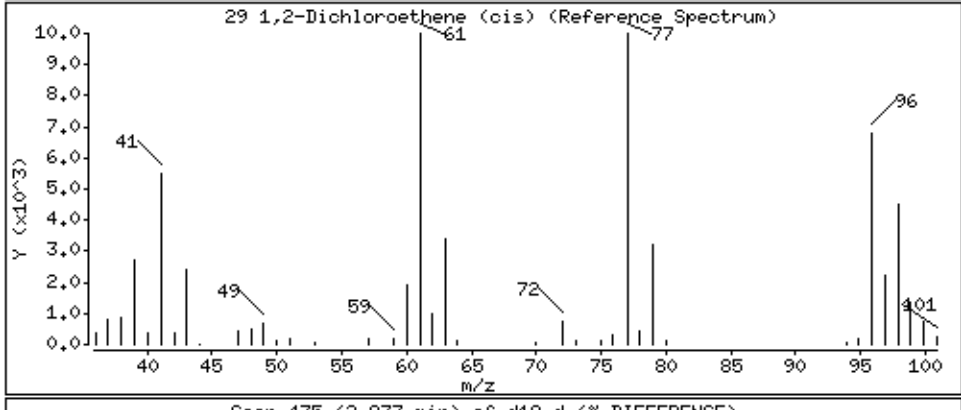
Concentration: 186 ppb

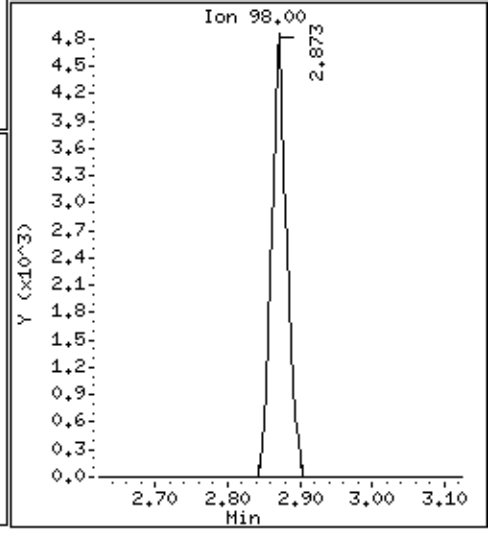


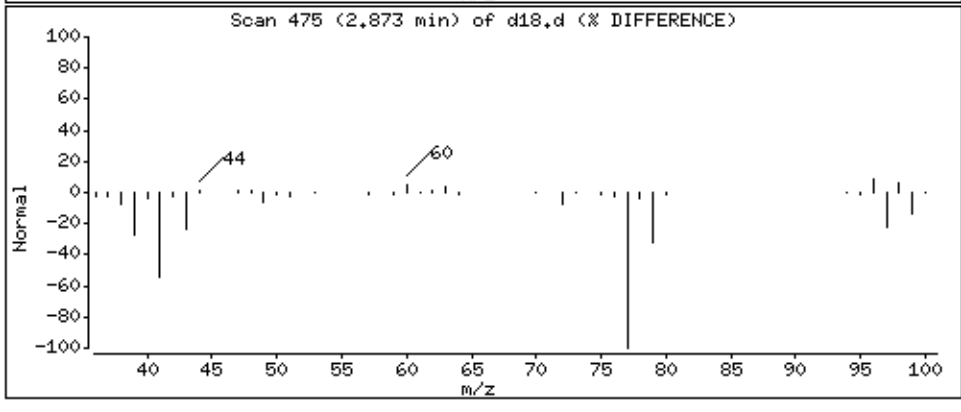












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

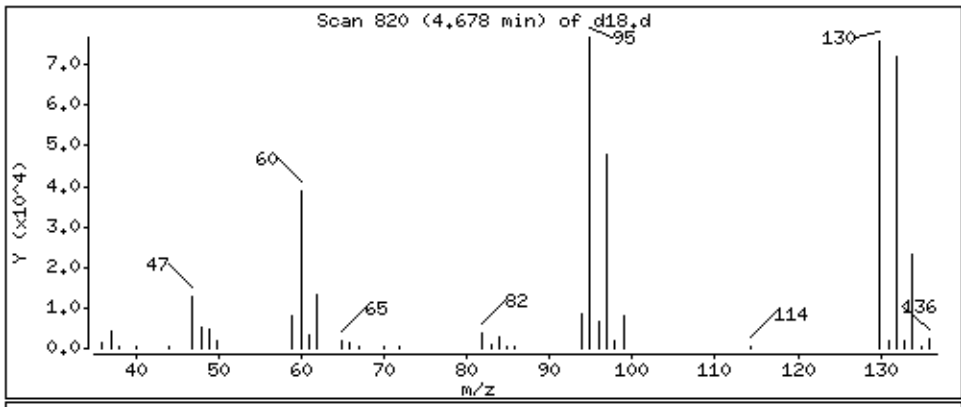
Operator: grm

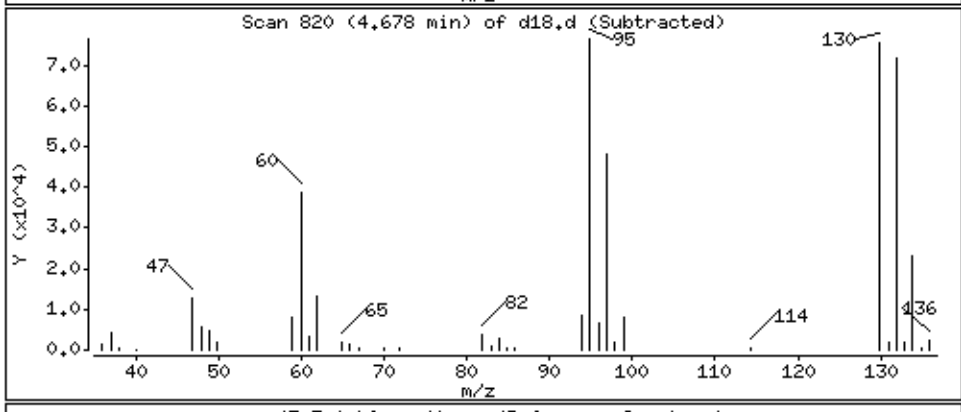
Column phase: DB-624

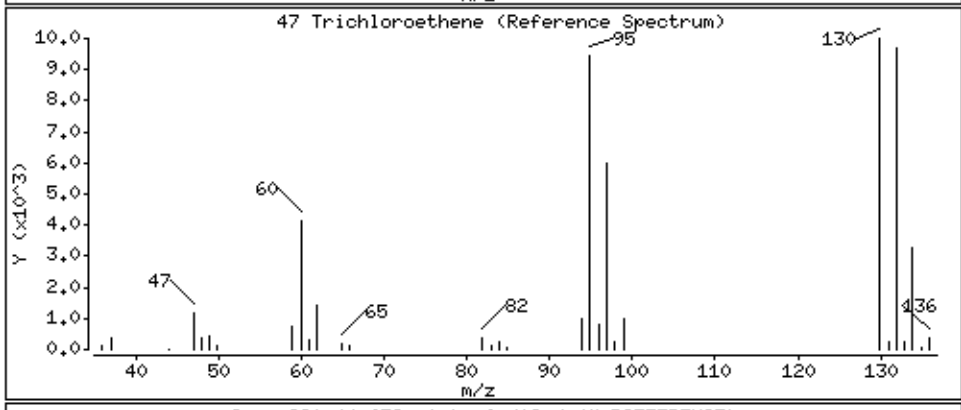
Column diameter: 0.18

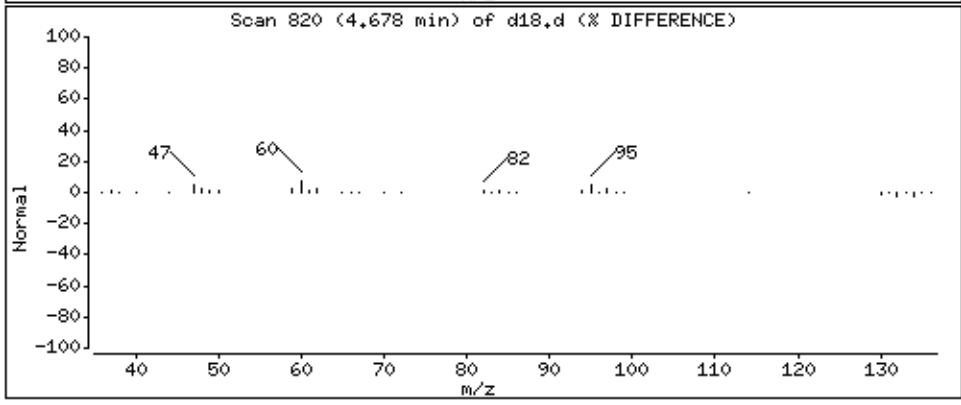
47 Trichloroethene

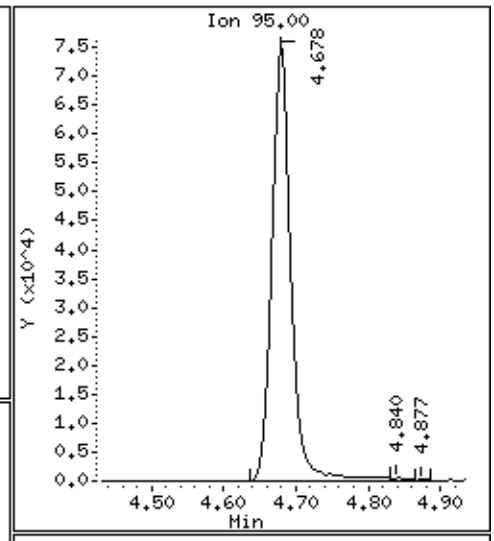
Concentration: 2380 ppb

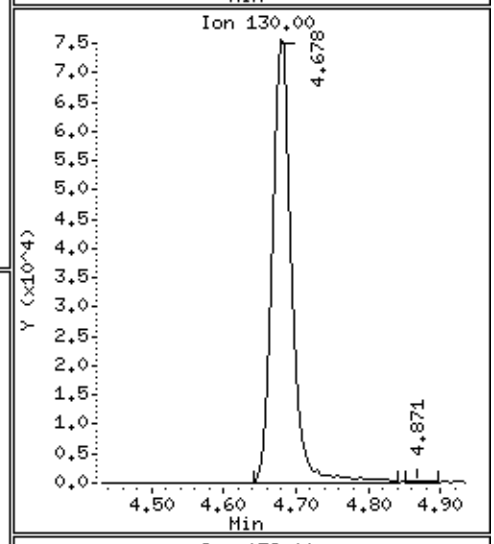


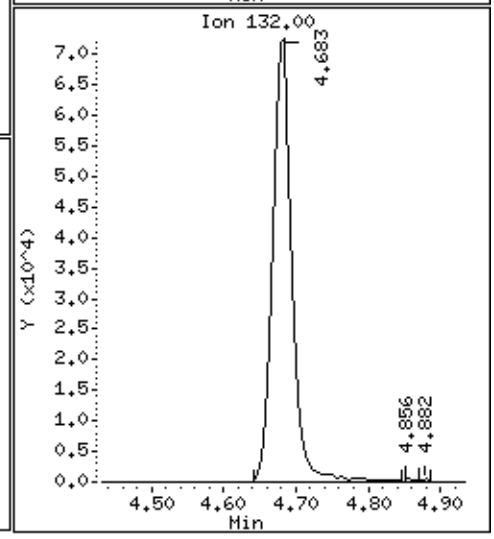












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d18.d

Date : 18-MAR-2016 10:33

Client ID: MW-0612-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212010x25

Purge Volume: 5.0

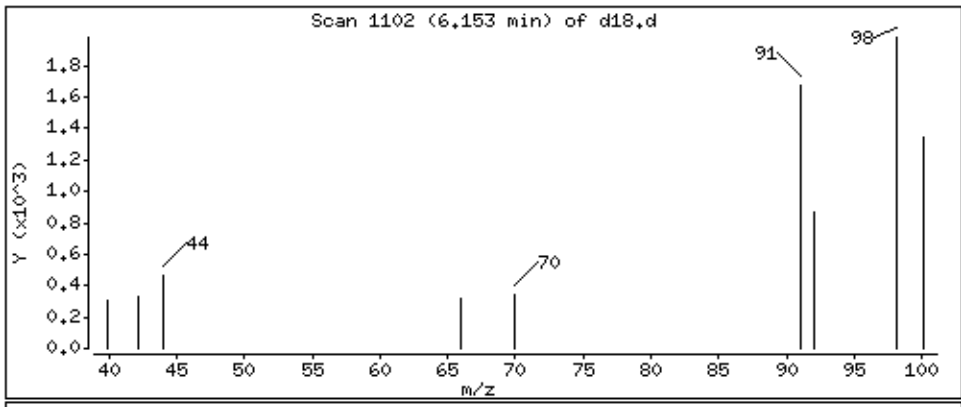
Operator: grm

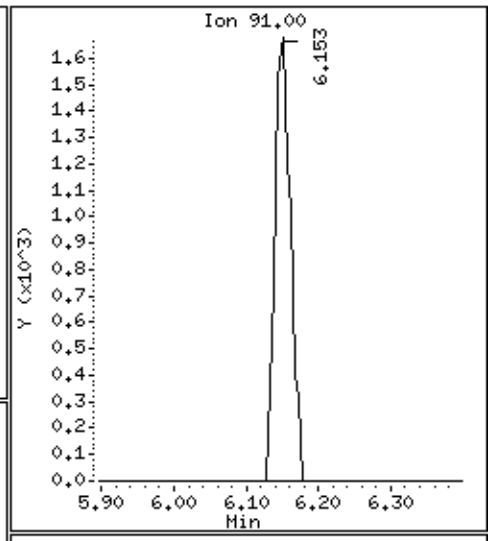
Column phase: DB-624

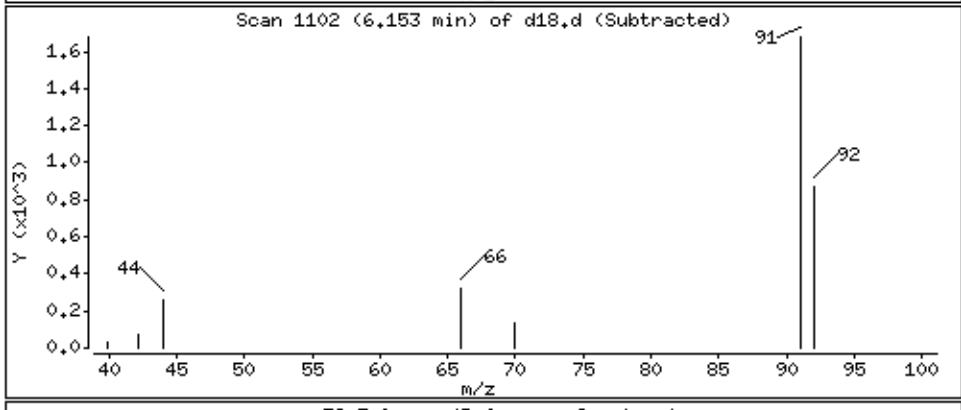
Column diameter: 0.18

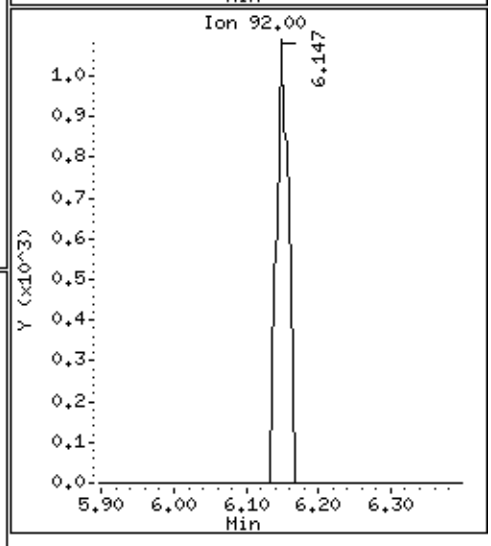
58 Toluene

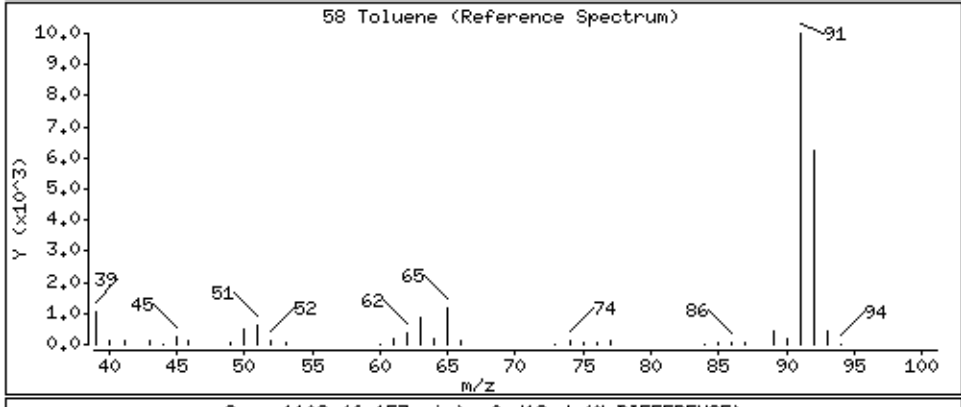
Concentration: 10.1 ppb

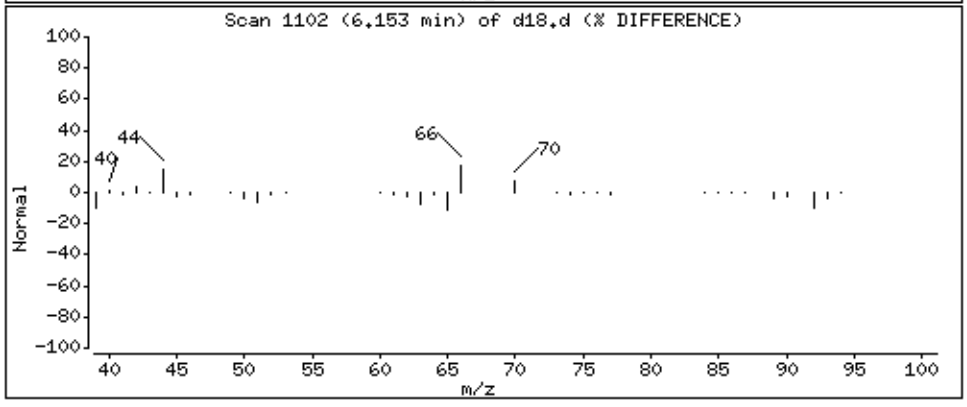












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d18.d
Injection Date: 18-MAR-2016 10:33
Instrument: 50mv1b.i
Lab Sample ID: 50140212010
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0606-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 11:08 Lab Sample ID: 50140212011

Date Analyzed: 03/18/2016 11:08 Lab File ID: B031716.B\D19.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	329	
79-01-6	Trichloroethene	1960	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d
Lab Smp Id: 50140212011 Client Smp ID: MW-0606-S1(030916)
Inj Date : 18-MAR-2016 11:08
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212011x10
Misc Info : 88107
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 52
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
7 Diethyl ether	74	1.501	1.496	(0.355)	705	1.04636	10.5	
18 Methylene Chloride	84	1.904	1.904	(0.450)	987	0.61425	6.14(Q)	
22 1,2-Dichloroethene (trans)	96	2.076	2.077	(0.491)	8472	5.70285	57.0	
29 1,2-Dichloroethene (cis)	96	2.871	2.872	(0.679)	50869	32.8830	329	
$ 38 Dibromofluoromethane (S)	113	3.394	3.400	(0.802)	78563	53.7590	53.8	
* 46 Fluorobenzene (IS)	96	4.231	4.232	(1.000)	281423	50.0000		
47 Trichloroethene	95	4.676	4.682	(1.105)	294780	195.988	1960	
$ 57 Toluene-d8	98	6.077	6.073	(0.822)	264161	48.9823	49.0	
58 Toluene	91	6.151	6.146	(0.832)	2969	0.44885	4.49	
* 67 Chlorobenzene-D5 (IS)	117	7.390	7.391	(1.000)	207699	50.0000		
$ 76 4-Bromofluorobenzene	95	8.206	8.207	(1.110)	99262	52.6463	52.6	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.881	(1.000)	112735	50.0000		

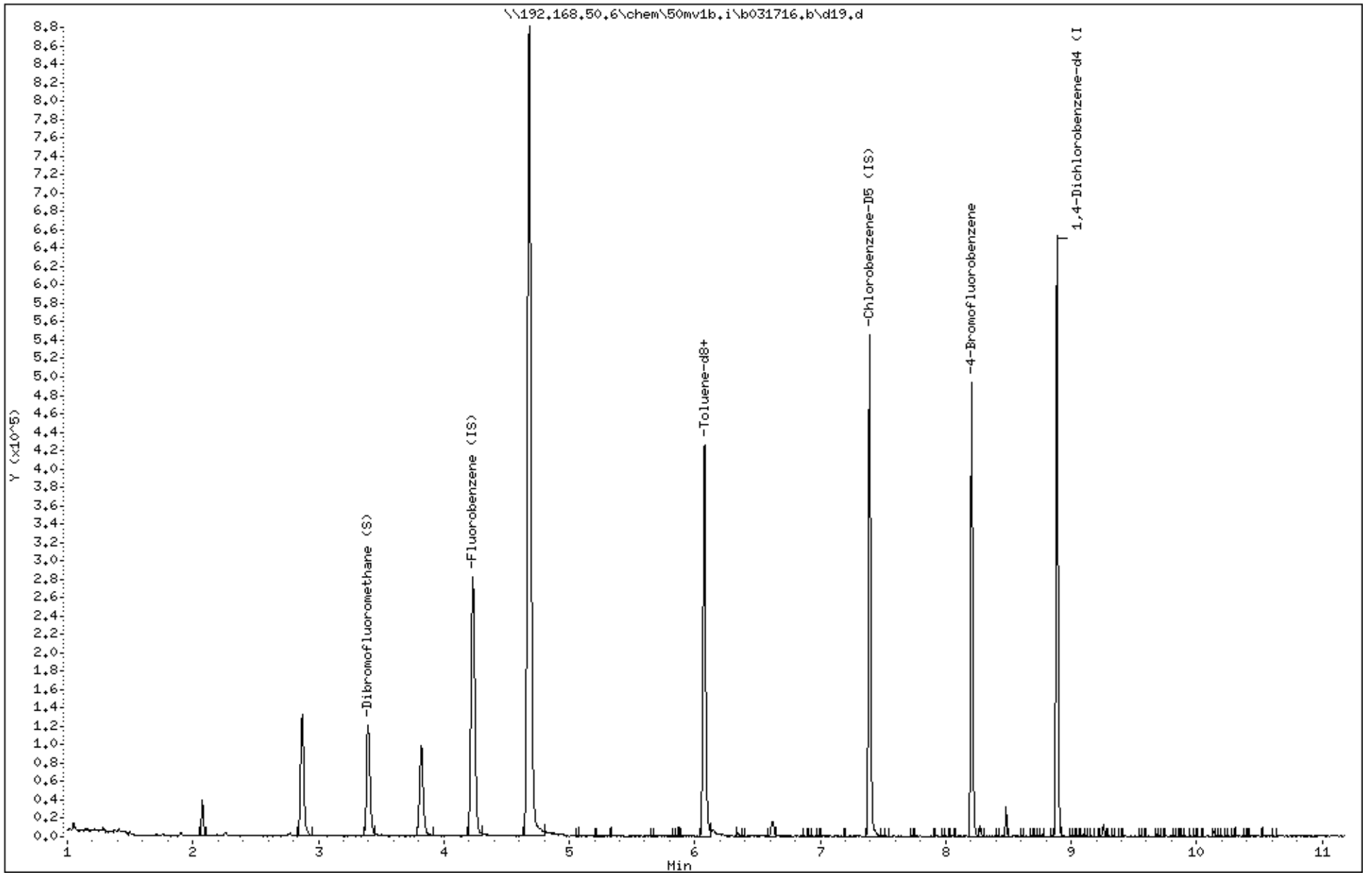
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d
Date : 18-MAR-2016 11:08
Client ID: MW-0606-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212011x10
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

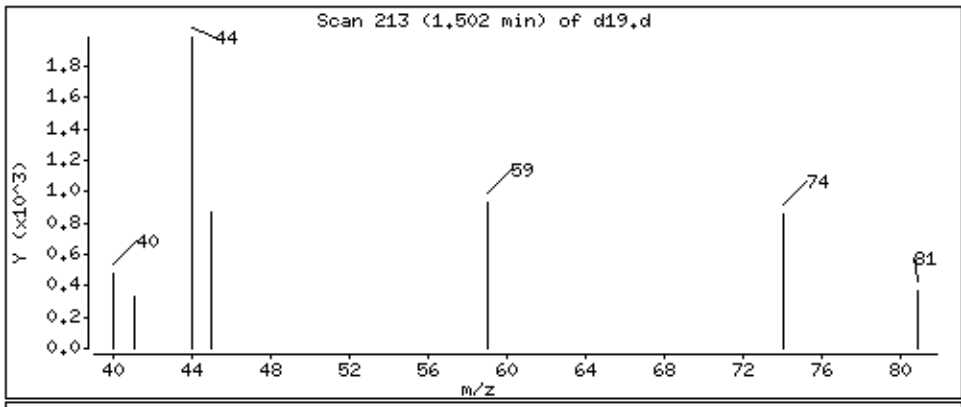
Operator: grm

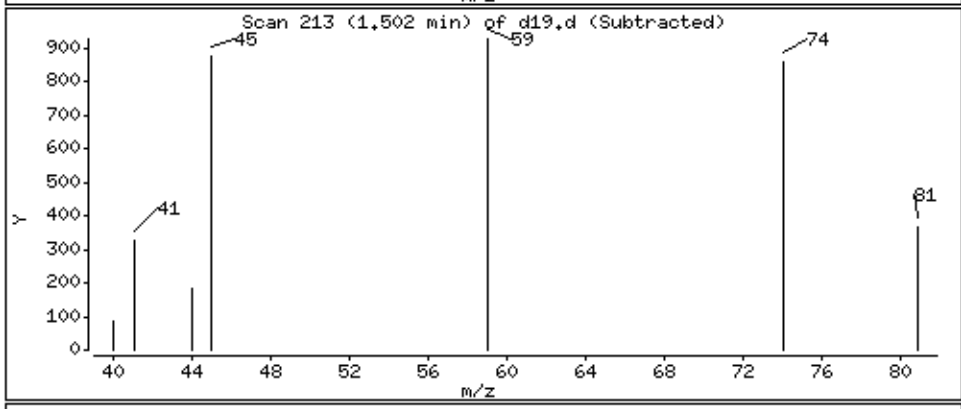
Column phase: DB-624

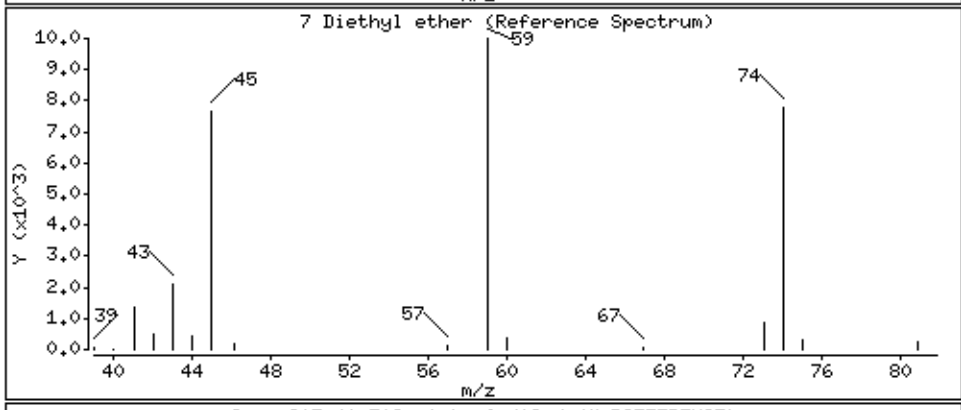
Column diameter: 0.18

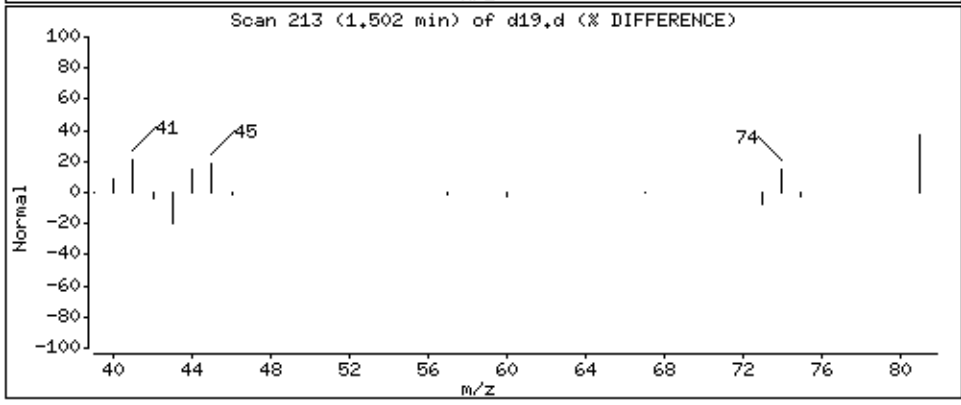
7 Diethyl ether

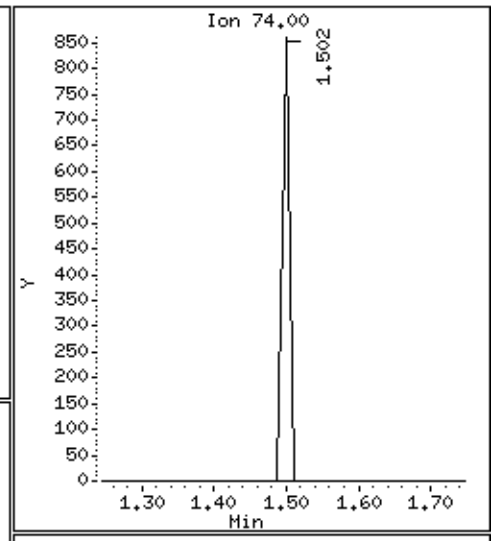
Concentration: 10.5 ppb

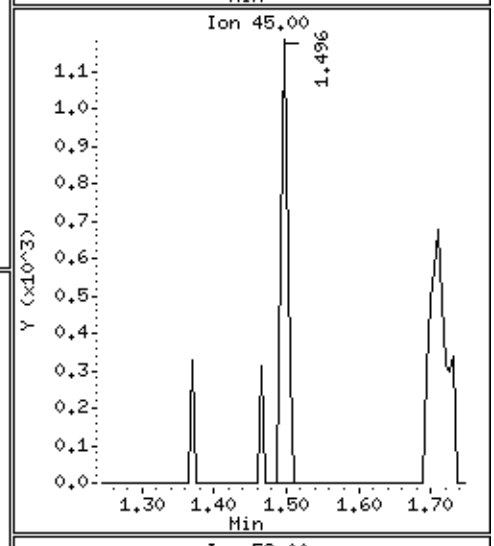


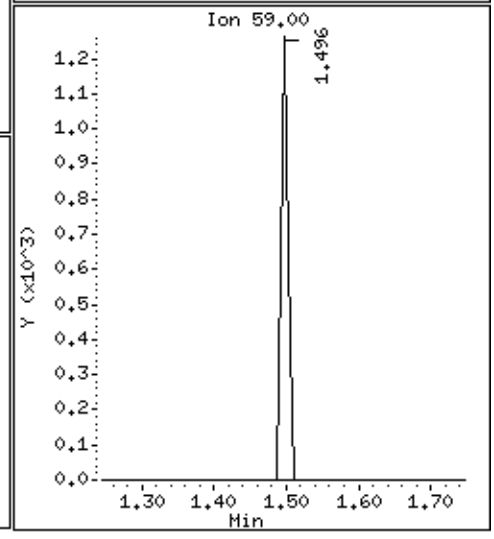












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

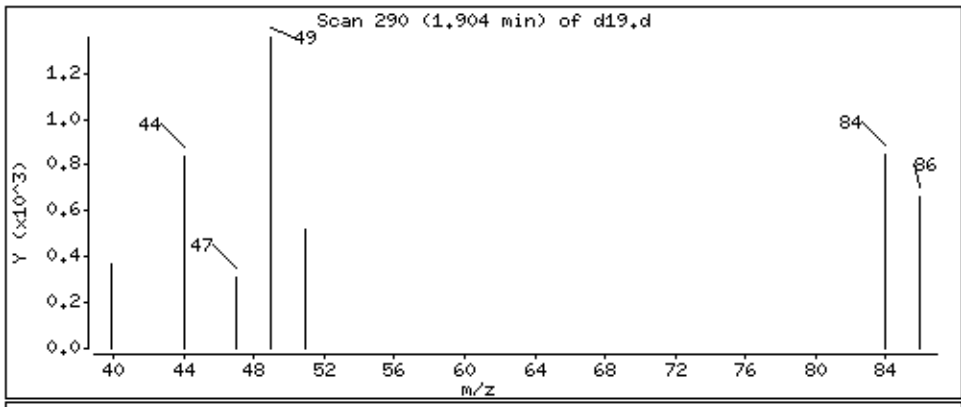
Operator: grm

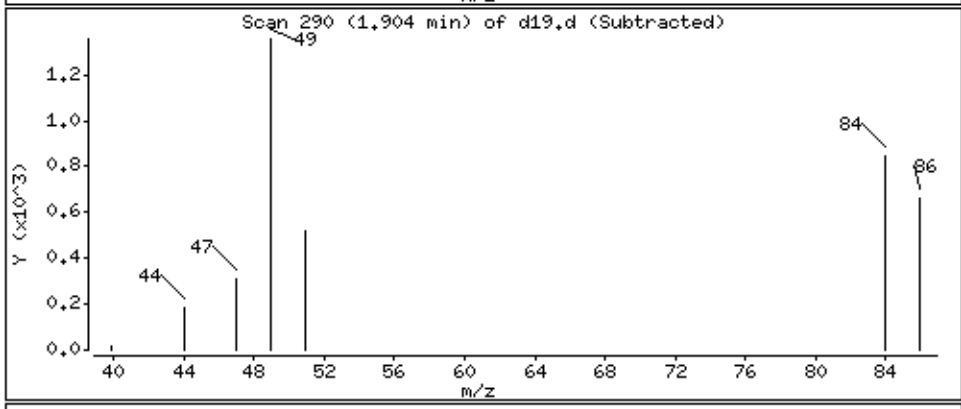
Column phase: DB-624

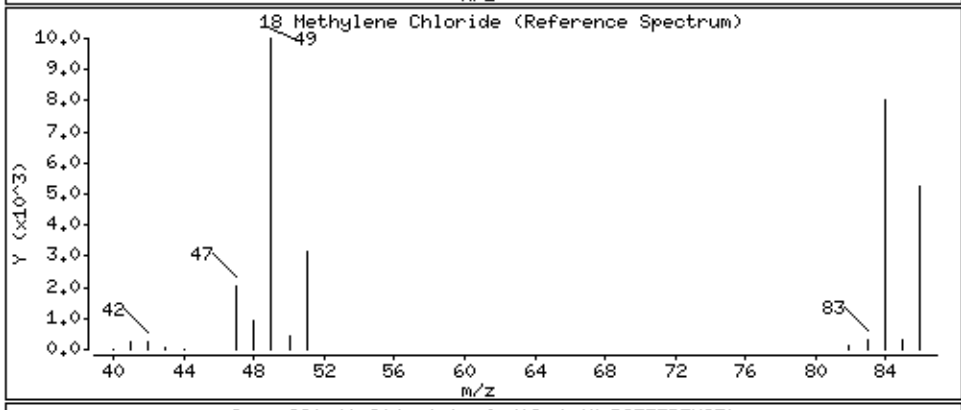
Column diameter: 0.18

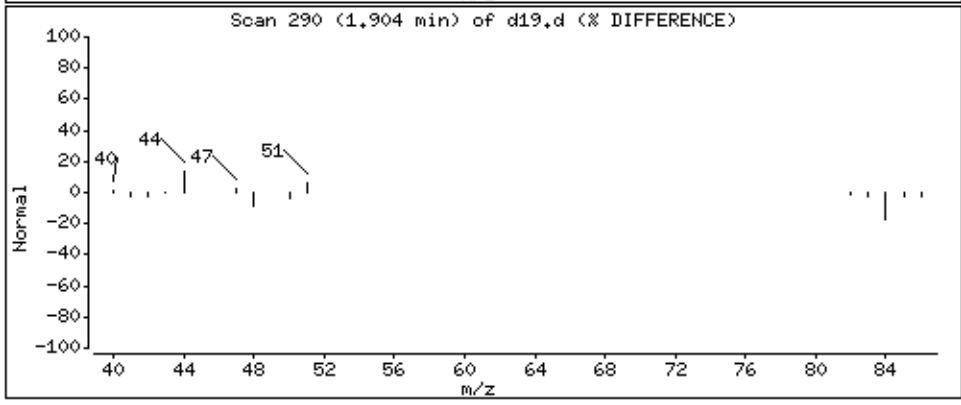
18 Methylene Chloride

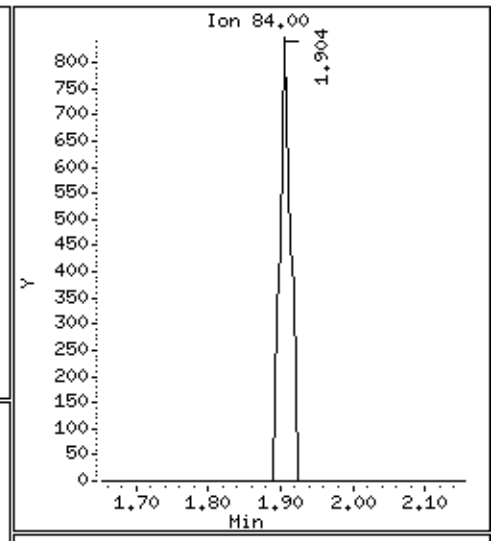
Concentration: 6.14 ppb

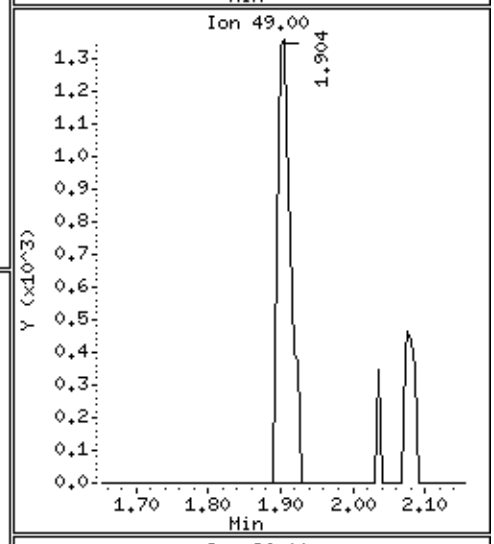


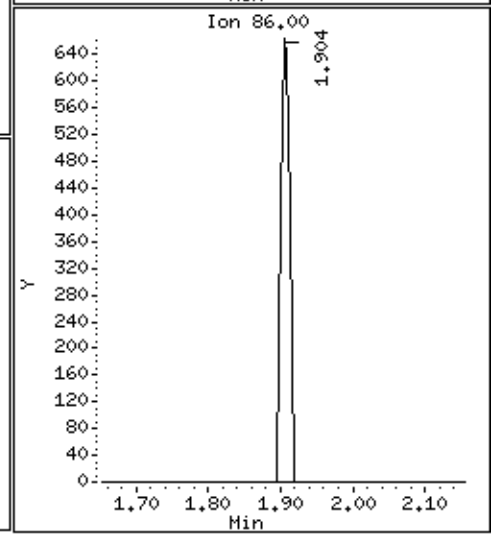












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

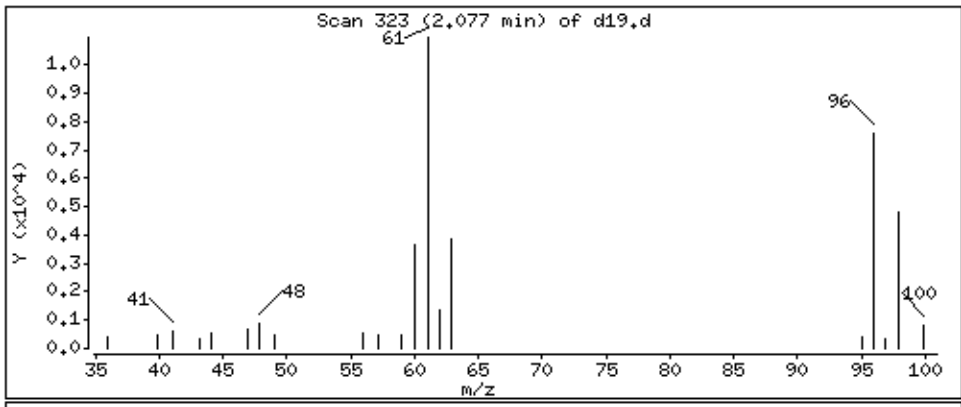
Operator: grm

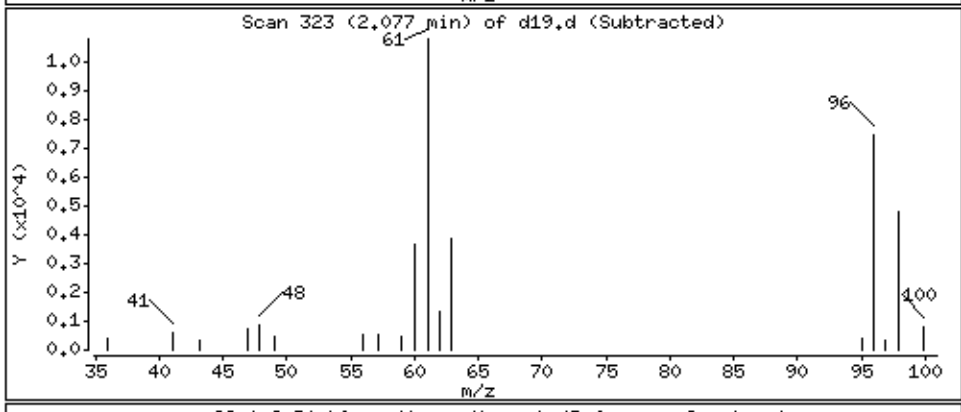
Column phase: DB-624

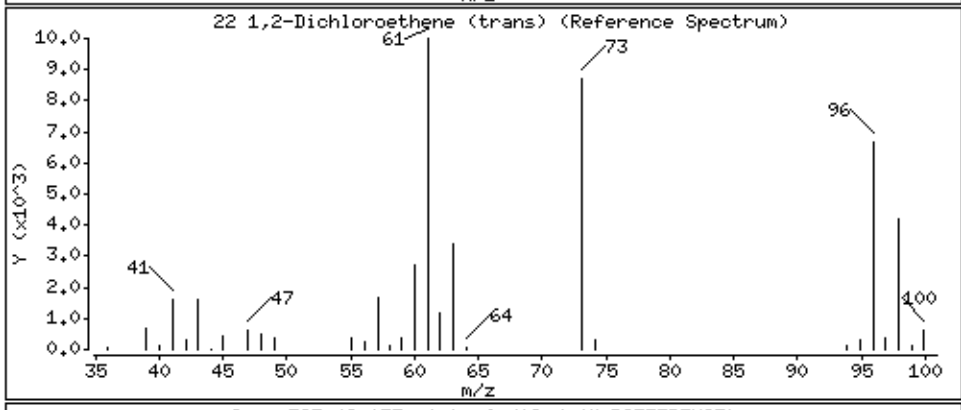
Column diameter: 0.18

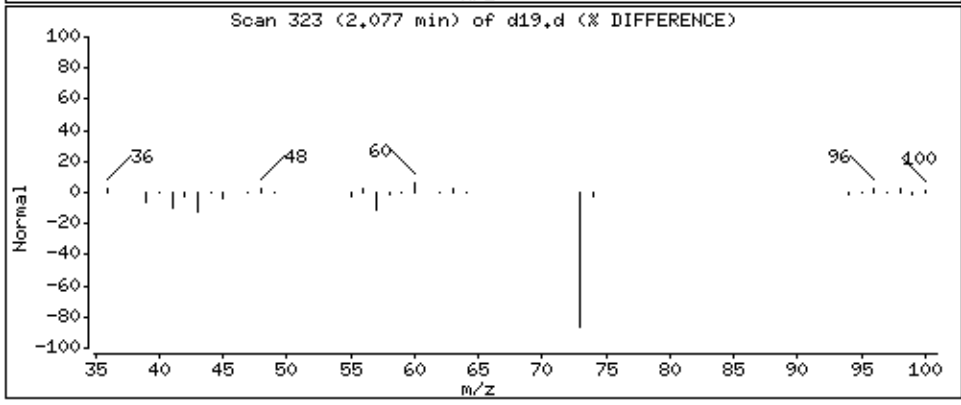
22 1,2-Dichloroethene (trans)

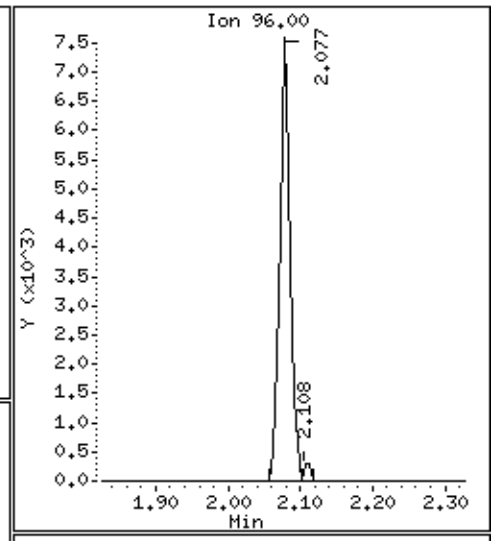
Concentration: 57.0 ppb

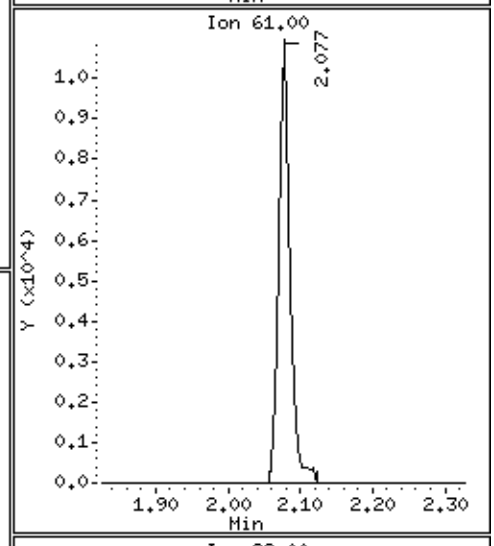


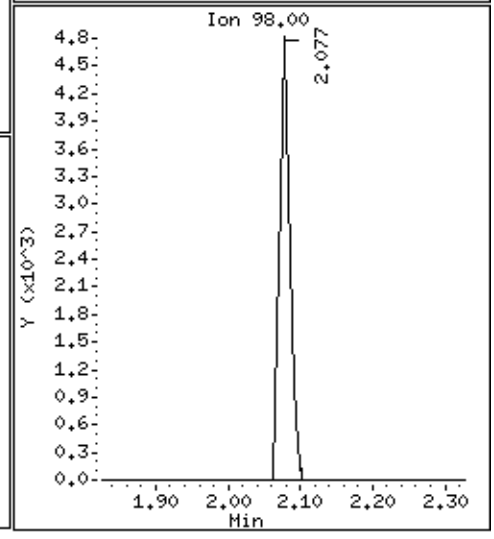












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

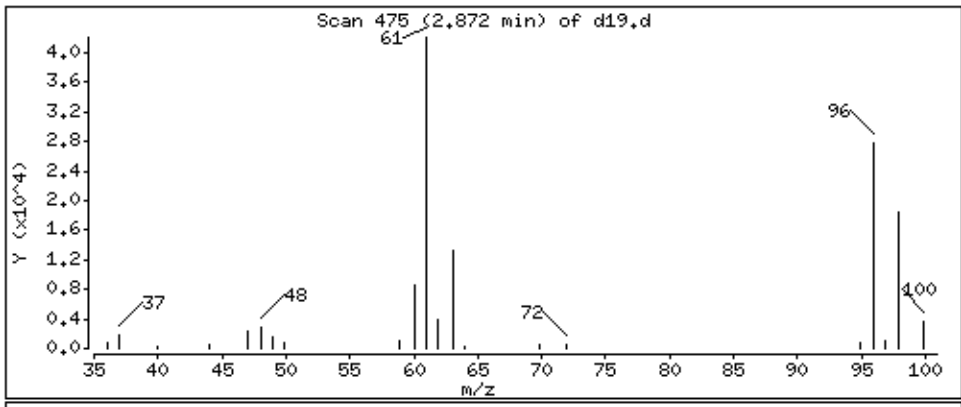
Operator: grm

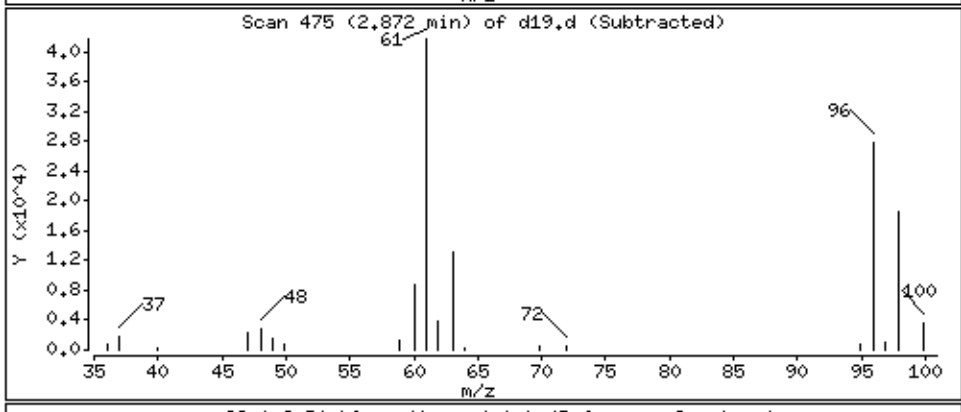
Column phase: DB-624

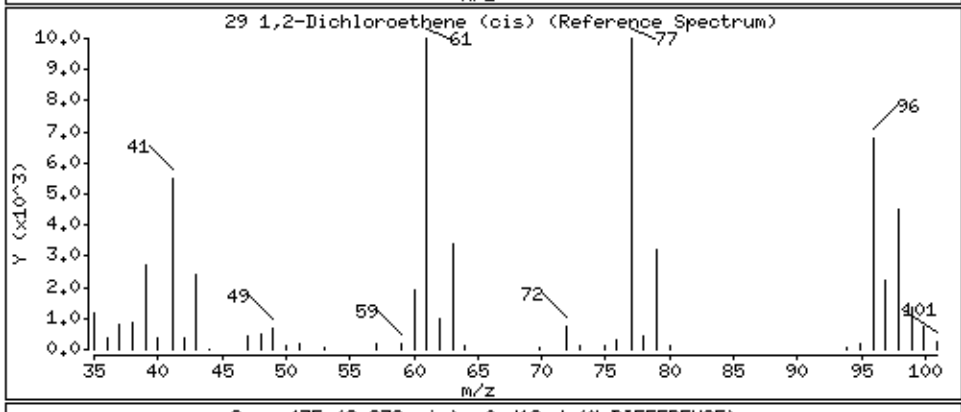
Column diameter: 0.18

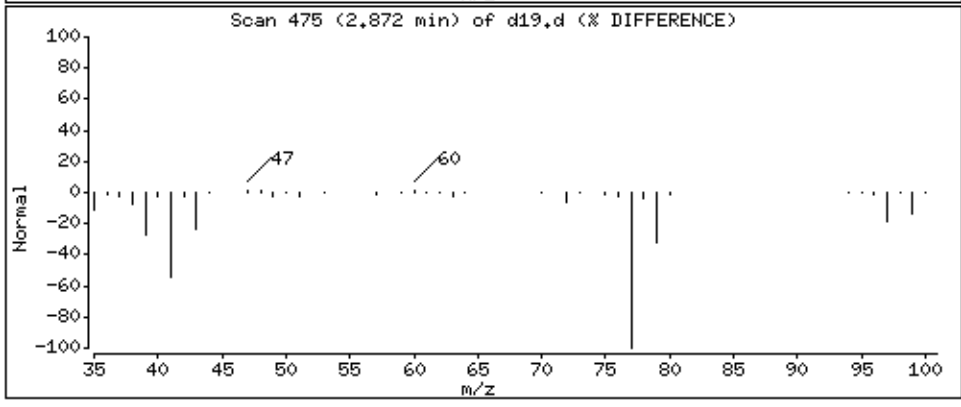
29 1,2-Dichloroethene (cis)

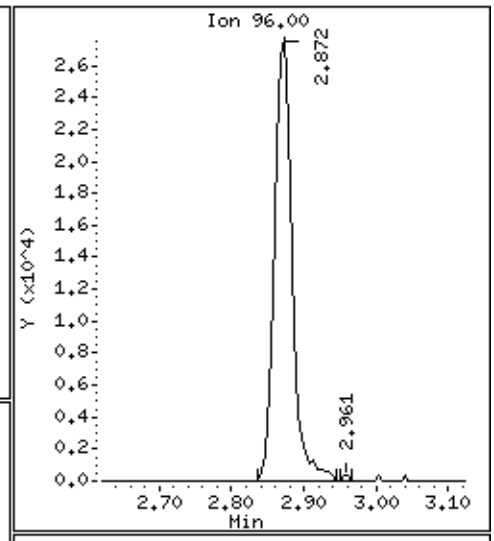
Concentration: 329 ppb

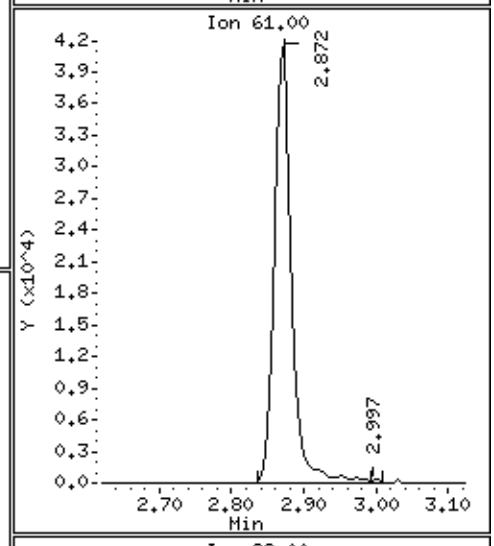


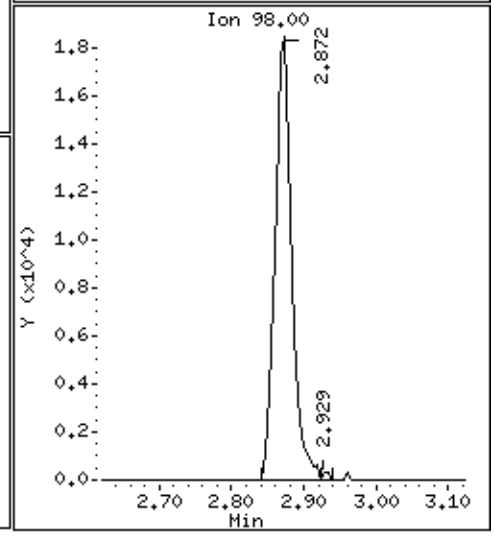












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

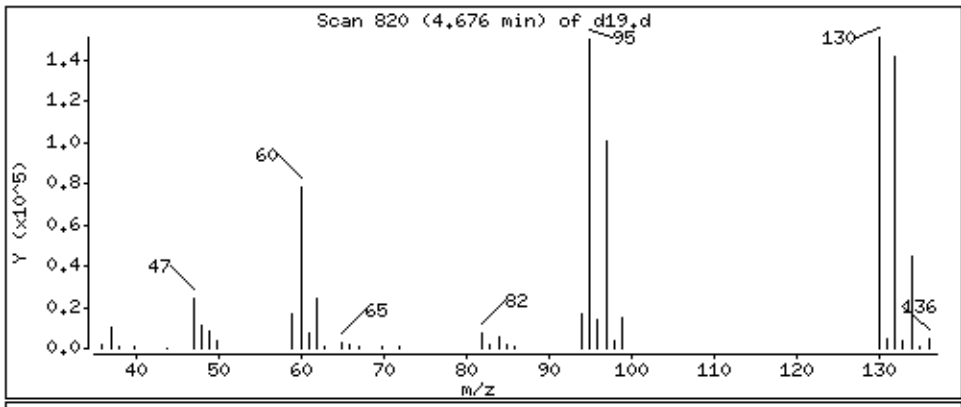
Operator: grm

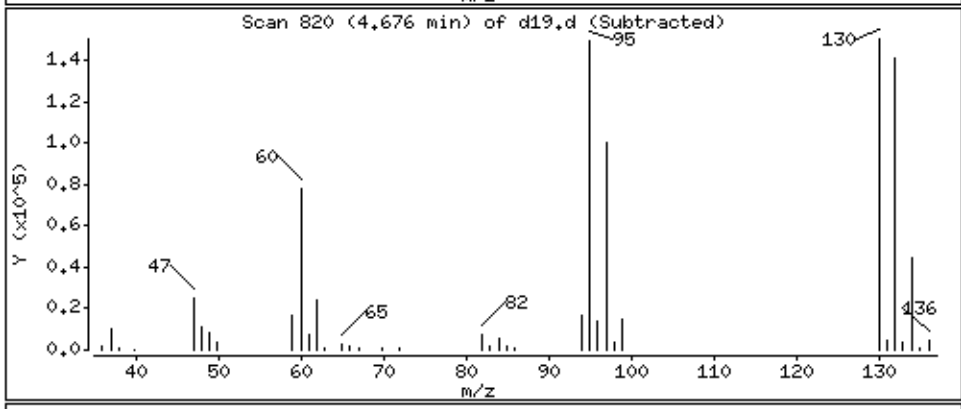
Column phase: DB-624

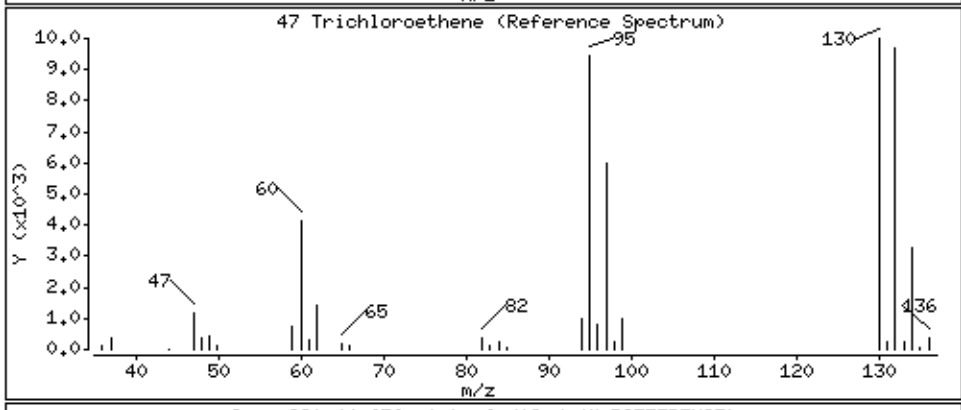
Column diameter: 0.18

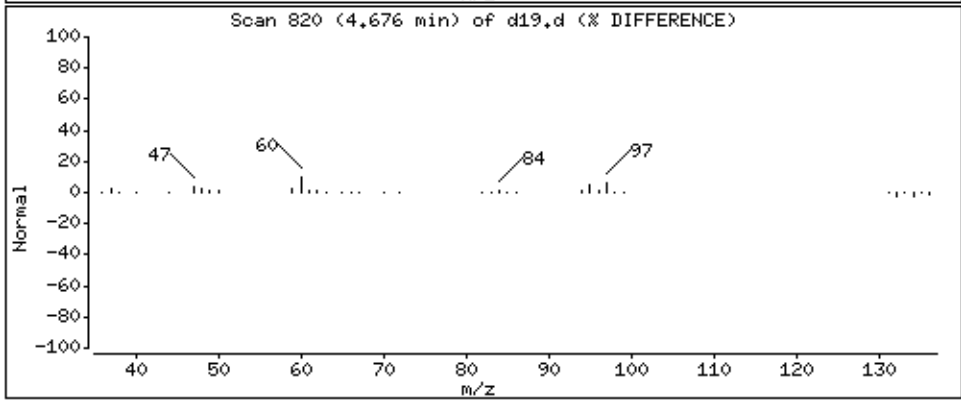
47 Trichloroethene

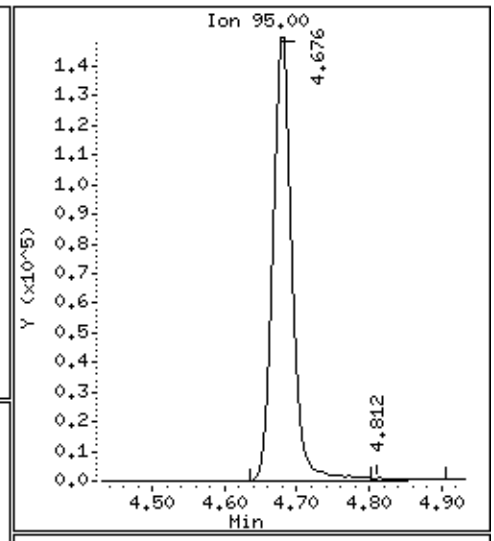
Concentration: 1960 ppb

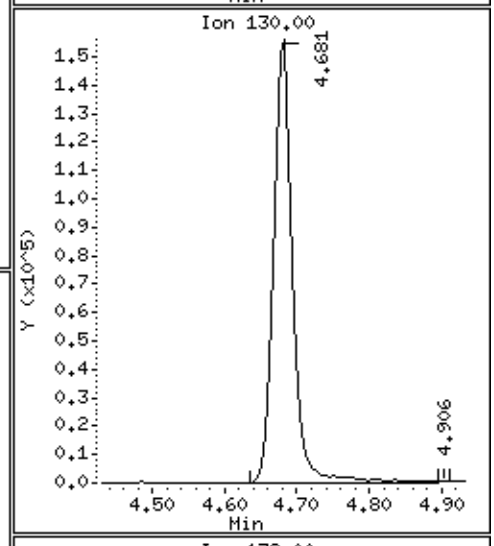


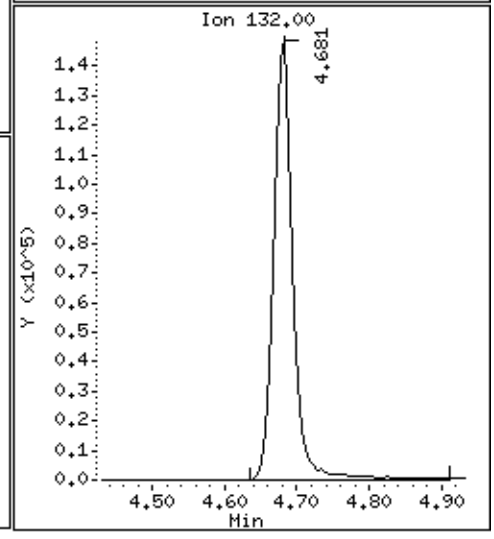












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d19.d

Date : 18-MAR-2016 11:08

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011x10

Purge Volume: 5.0

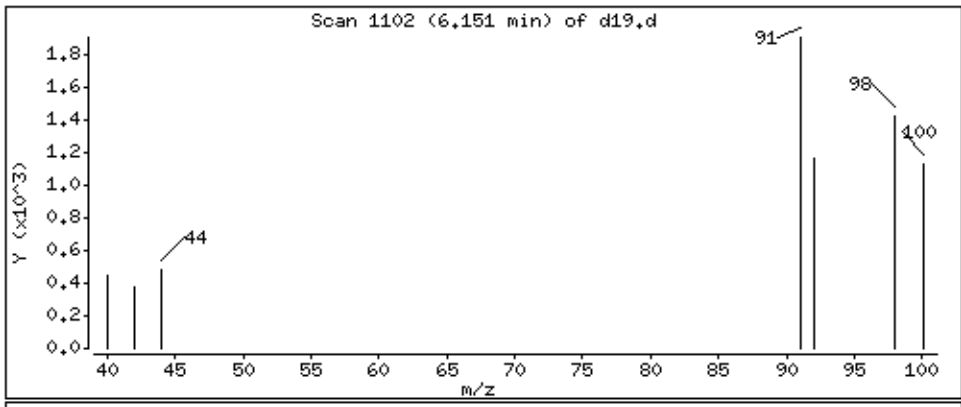
Operator: grm

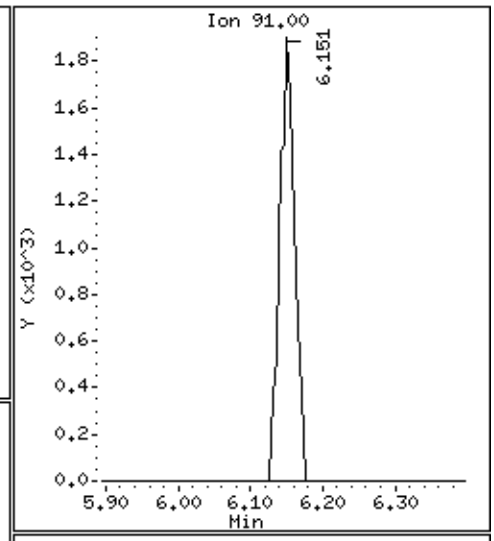
Column phase: DB-624

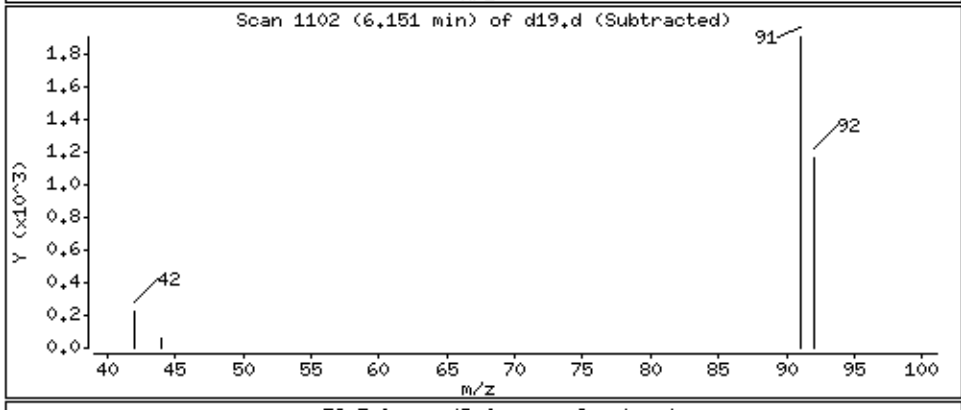
Column diameter: 0.18

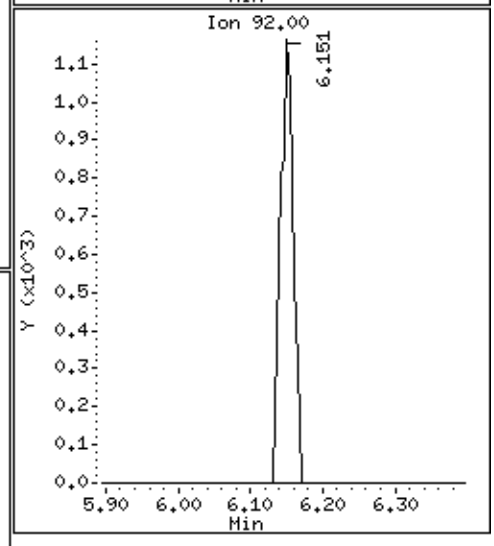
58 Toluene

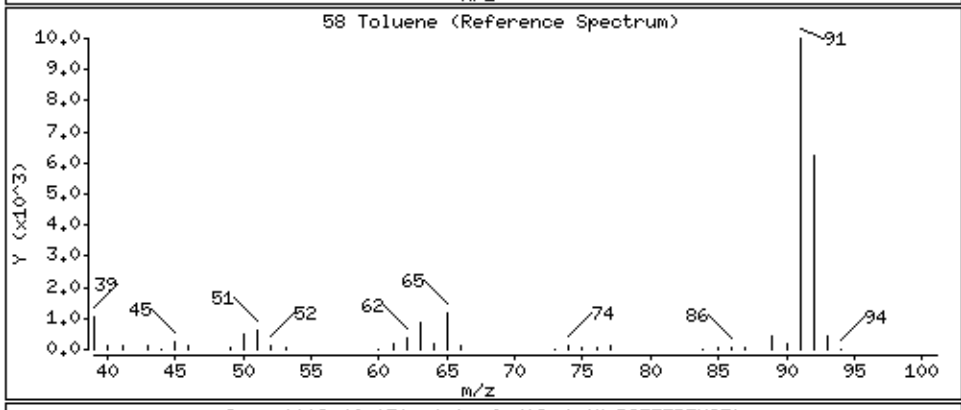
Concentration: 4.49 ppb

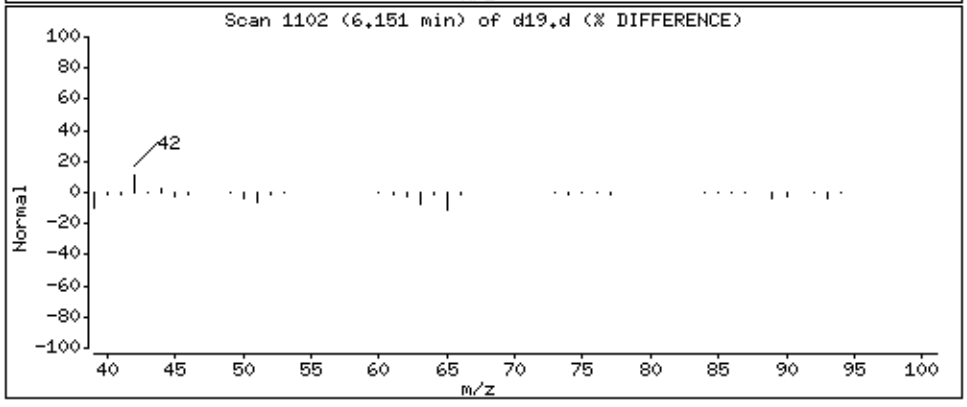












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d19.d
Injection Date: 18-MAR-2016 11:08
Instrument: 50mv1b.i
Lab Sample ID: 50140212011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0606-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/21/2016 01:36 Lab Sample ID: 50140212011

Date Analyzed: 03/21/2016 01:36 Lab File ID: B032016.B\B20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	62.6	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U

SAMPLE NO.

MW-0606-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/21/2016 01:36 Lab Sample ID: 50140212011

Date Analyzed: 03/21/2016 01:36 Lab File ID: B032016.B\B20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d
Lab Smp Id: 50140212011 Client Smp ID: MW-0606-S1(030916)
Inj Date : 21-MAR-2016 01:36
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212011
Misc Info : 88107
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b032016.b\b8260_a_c.m
Meth Date : 21-Mar-2016 11:26 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 71
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.059	(0.251)	2024	0.71886	0.719(Q)	
	11 1,1-Dichloroethene	96	1.628	1.624	(0.385)	1342	0.94446	0.944	
	19 tert-Butyl Alcohol	59	1.947	1.948	(0.460)	244	1.83543	1.84(Q)	
	22 1,2-Dichloroethene (trans)	96	2.077	2.079	(0.491)	101392	62.5712	62.6	
	24 n-Hexane	57	2.260	2.257	(0.534)	2906	1.01970	1.02	
	29 1,2-Dichloroethene (cis)	96	2.872	2.869	(0.679)	541986	321.197	321	
$	38 Dibromofluoromethane (S)	113	3.395	3.397	(0.802)	80703	50.6277	50.6	
*	46 Fluorobenzene (IS)	96	4.232	4.234	(1.000)	306969	50.0000		
	47 Trichloroethene	95	4.682	4.679	(1.106)	3446803	2100.93	2100	
$	57 Toluene-d8	98	6.073	6.075	(0.822)	288406	50.0012	50.0	
	58 Toluene	91	6.152	6.148	(0.832)	3413	0.48243	0.482	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.393	(1.000)	222141	50.0000		
$	76 4-Bromofluorobenzene	95	8.207	8.209	(1.110)	106230	52.6790	52.7	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.884	(1.000)	117401	50.0000		

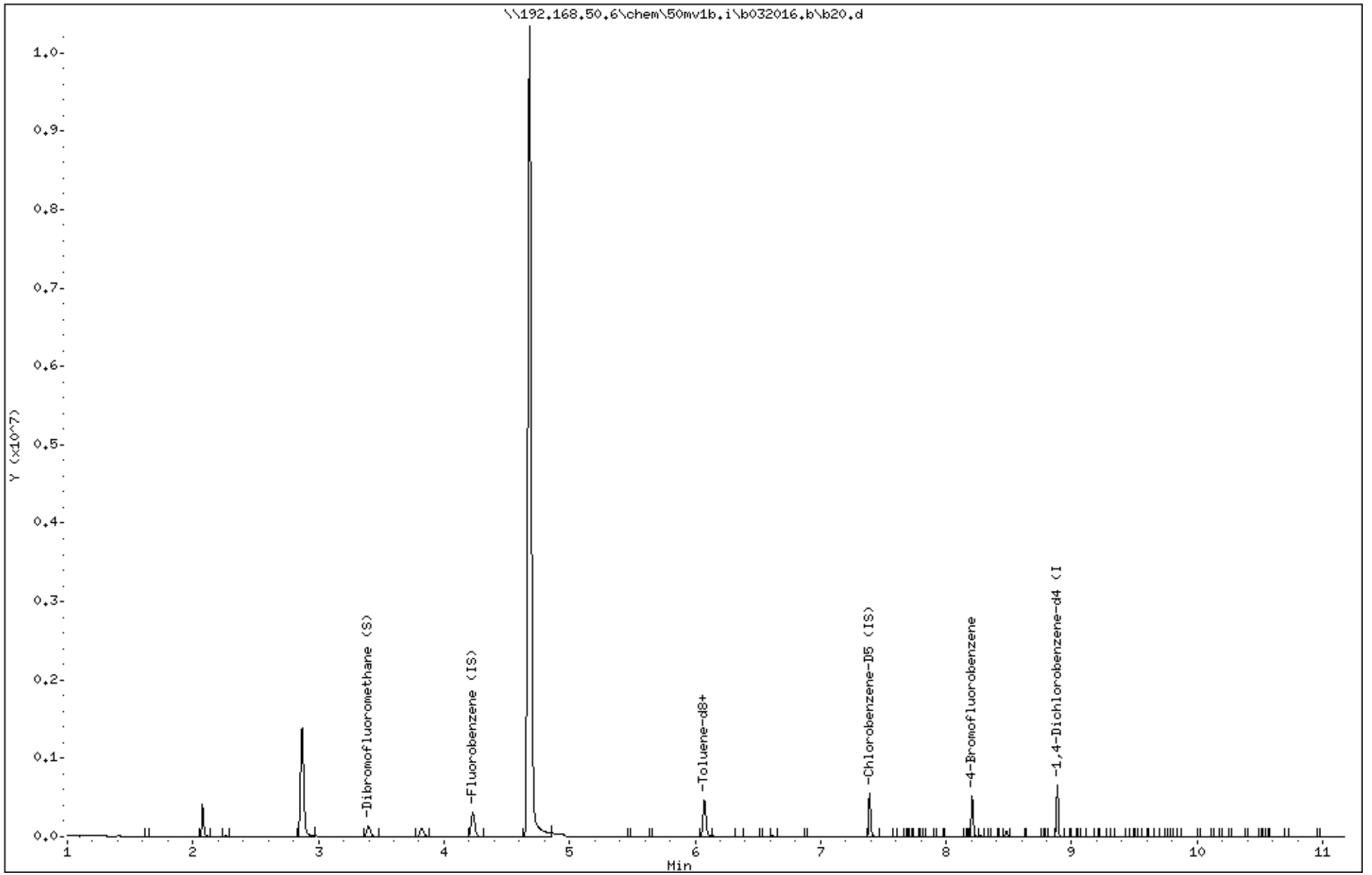
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d
Date : 21-MAR-2016 01:36
Client ID: MW-0606-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212011
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

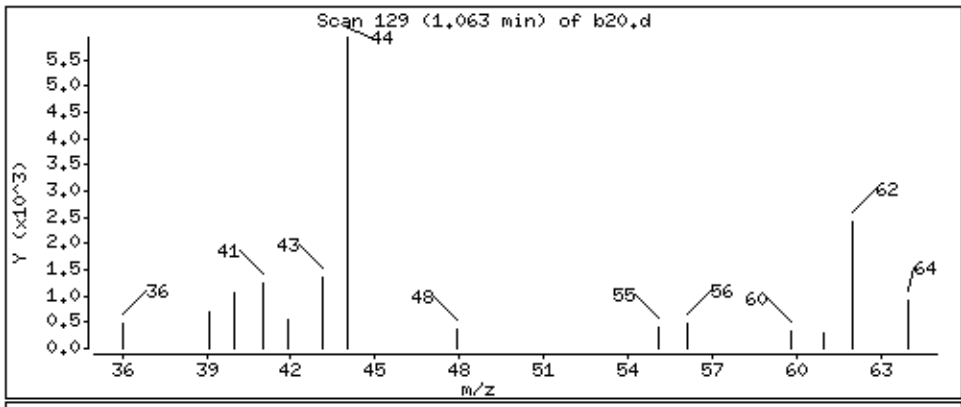
Operator: grm

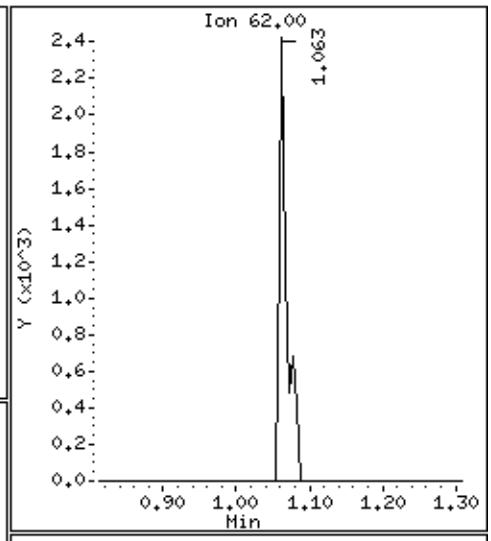
Column phase: DB-624

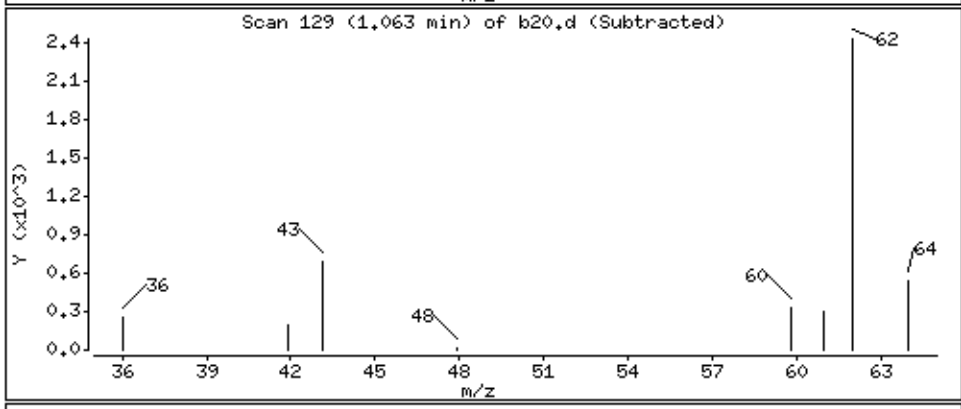
Column diameter: 0.18

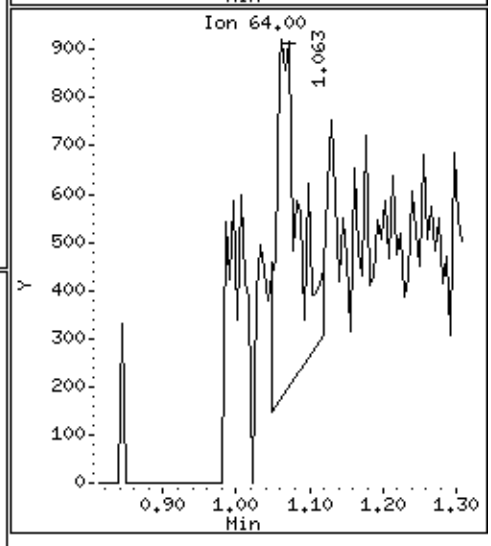
3 Vinyl Chloride

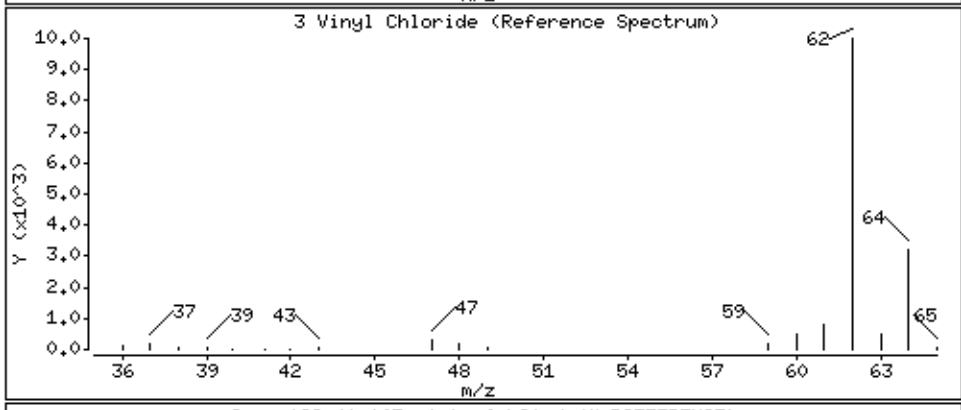
Concentration: 0.719 ppb

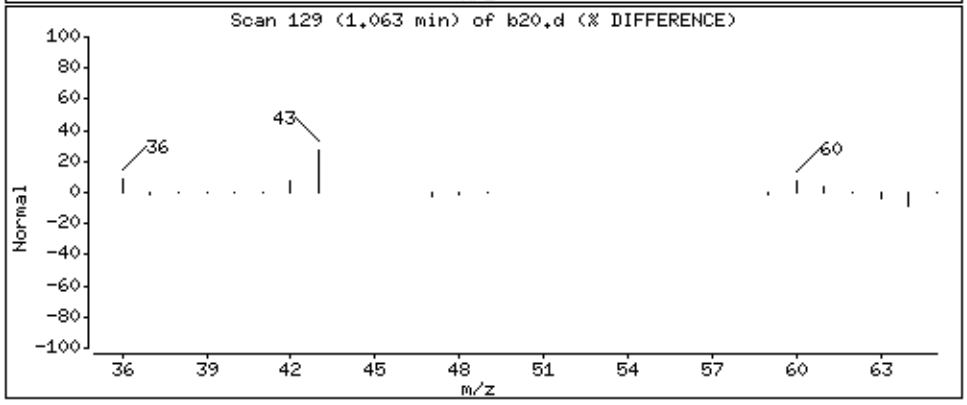












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

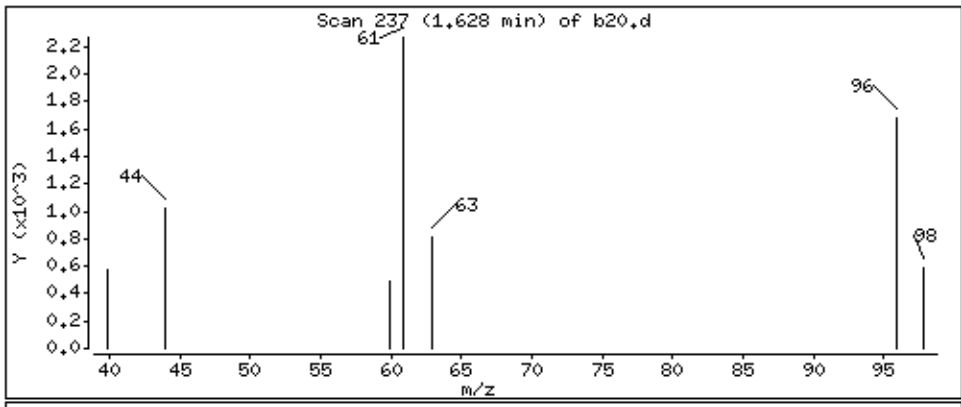
Operator: grm

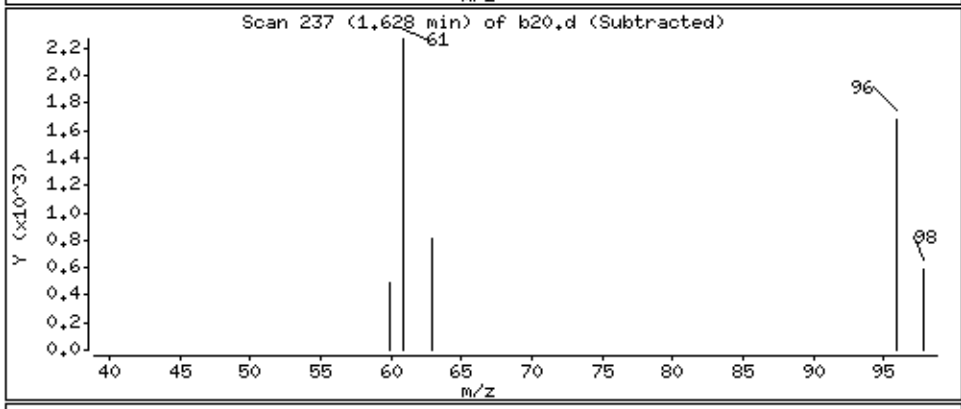
Column phase: DB-624

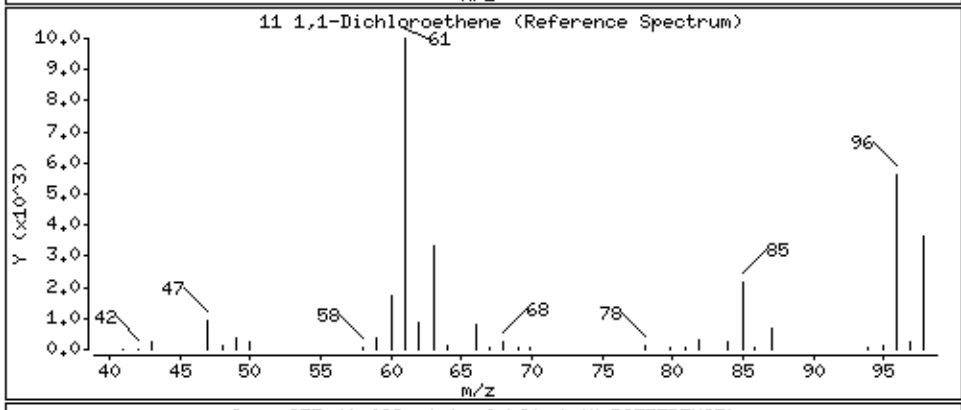
Column diameter: 0.18

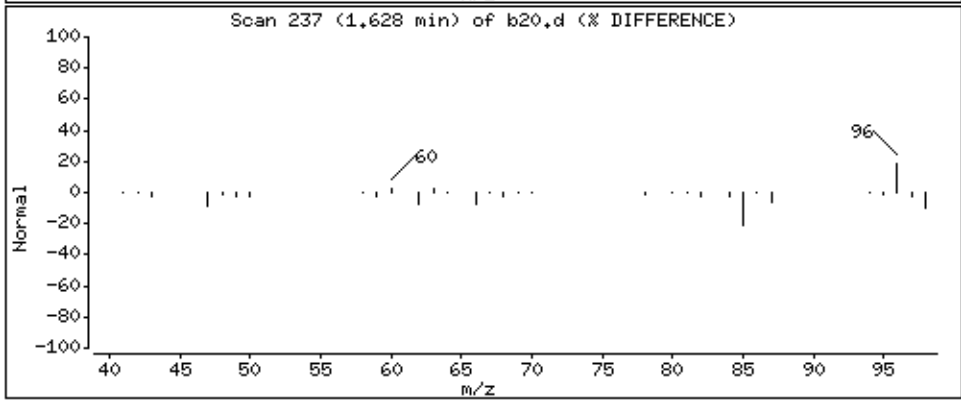
11 1,1-Dichloroethene

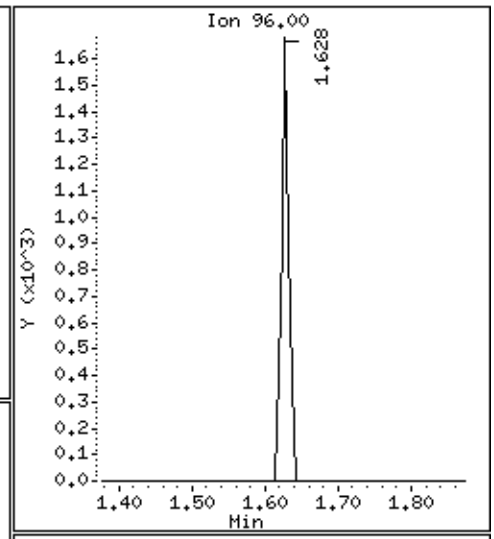
Concentration: 0.944 ppb

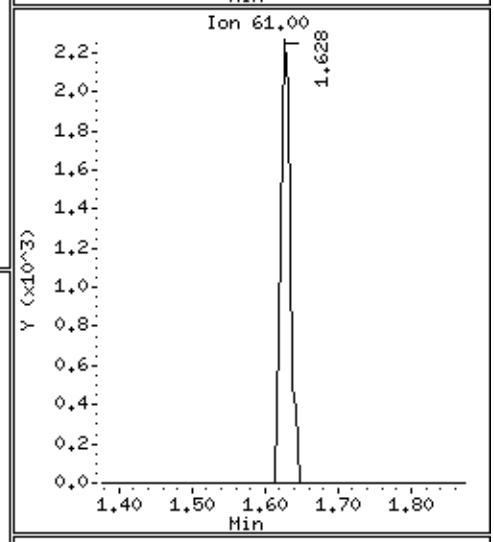


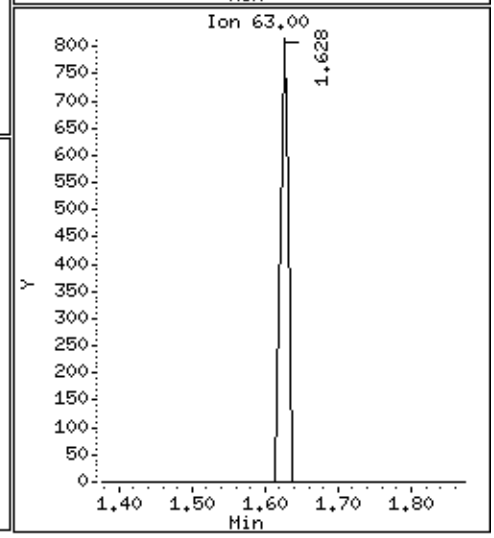












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

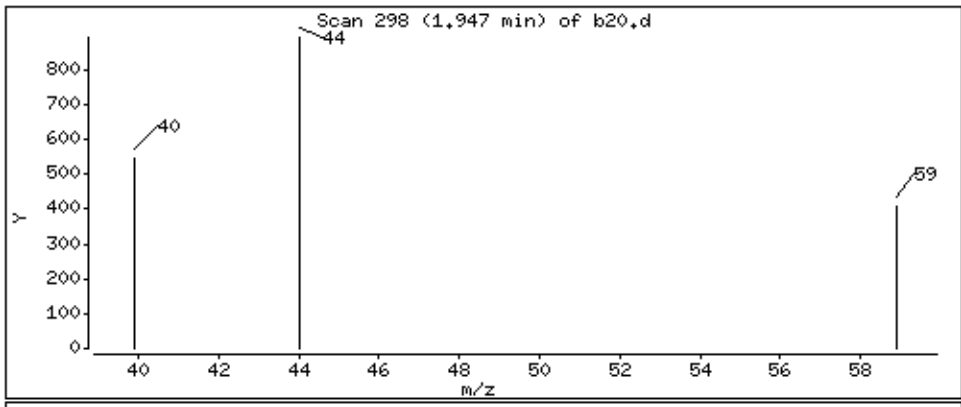
Operator: grm

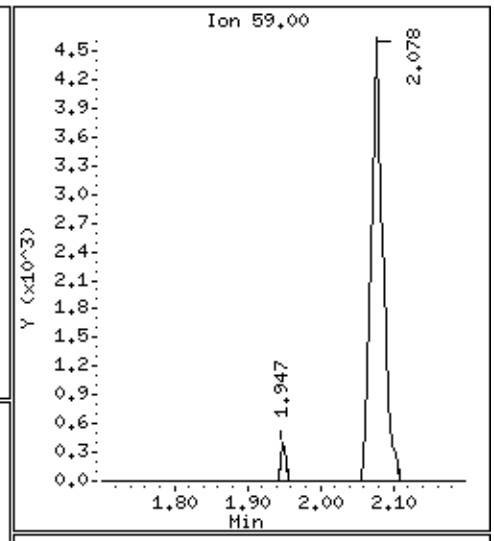
Column phase: DB-624

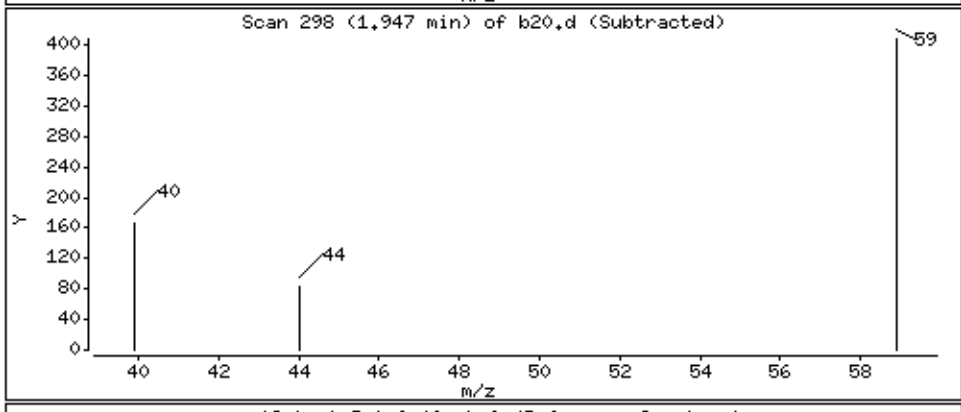
Column diameter: 0.18

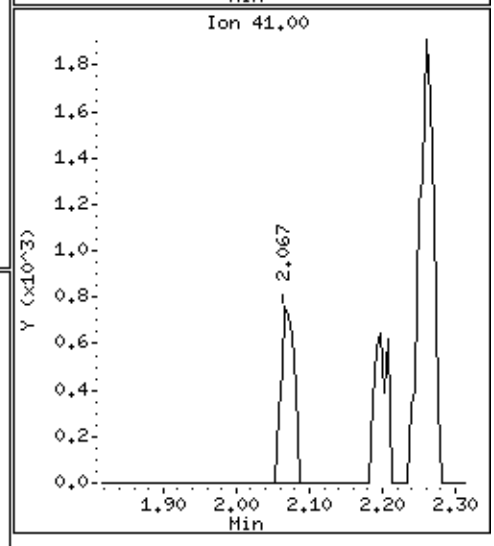
19 tert-Butyl Alcohol

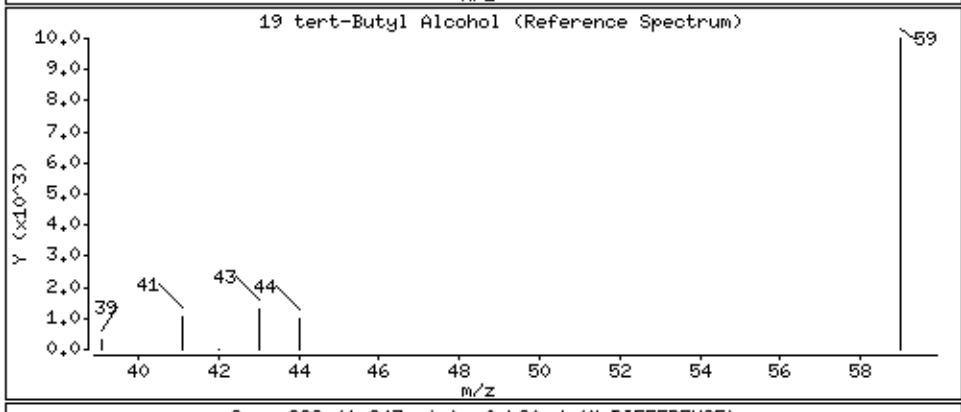
Concentration: 1.84 ppb

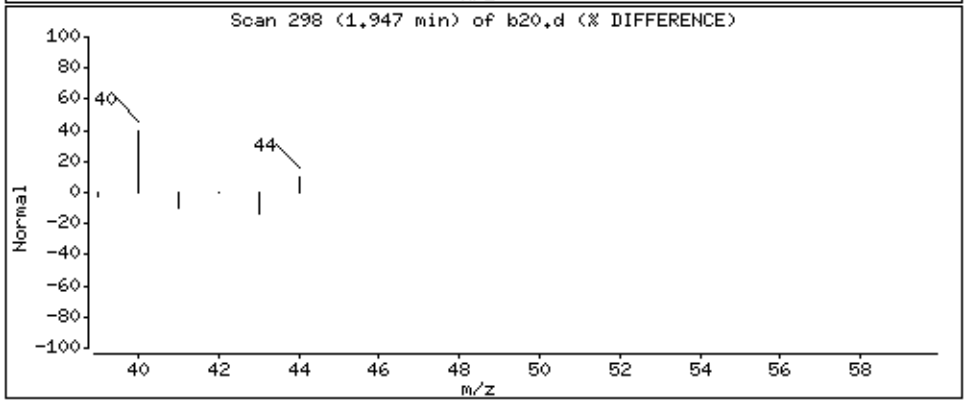












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

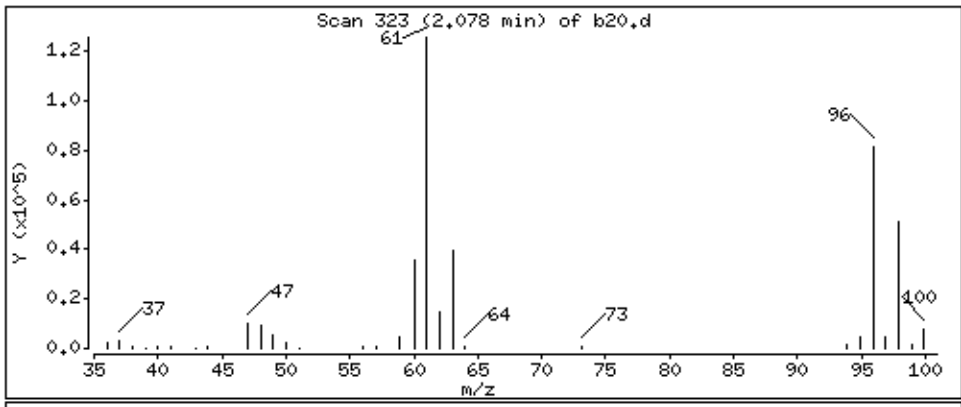
Operator: grm

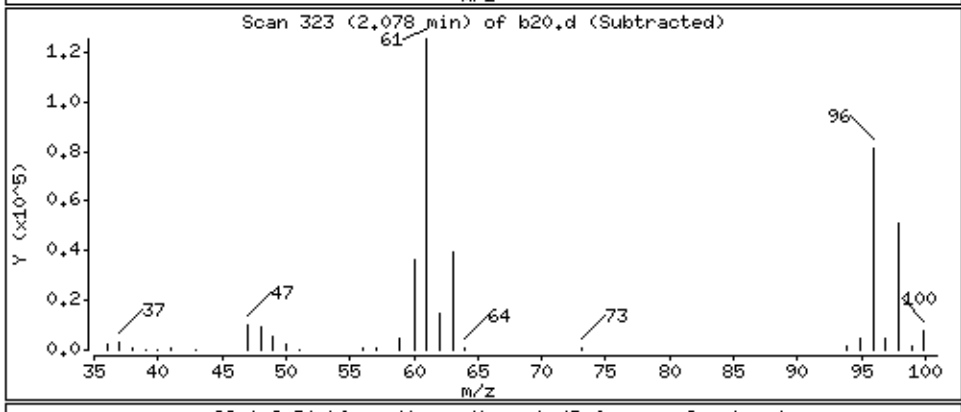
Column phase: DB-624

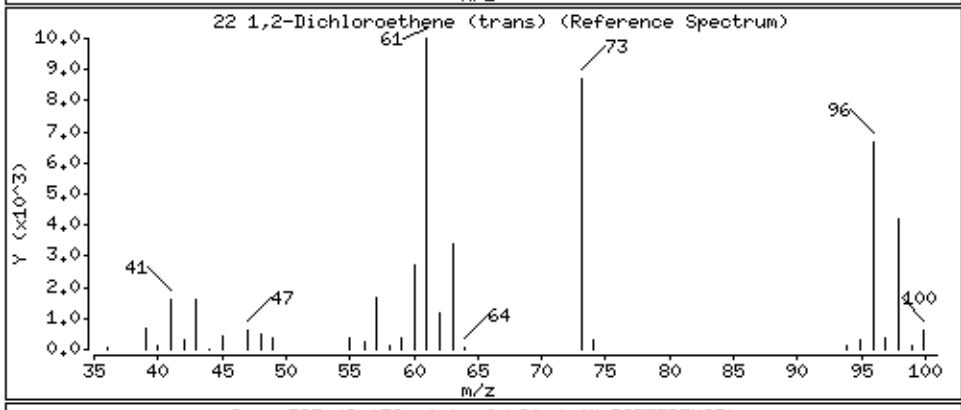
Column diameter: 0.18

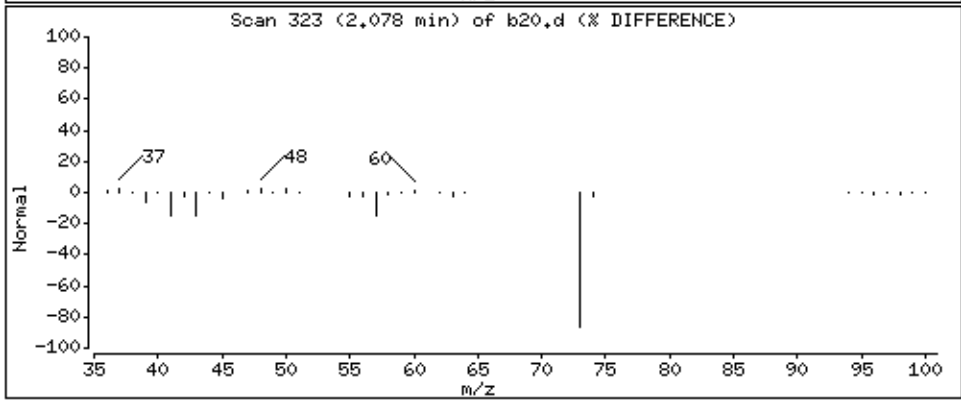
22 1,2-Dichloroethene (trans)

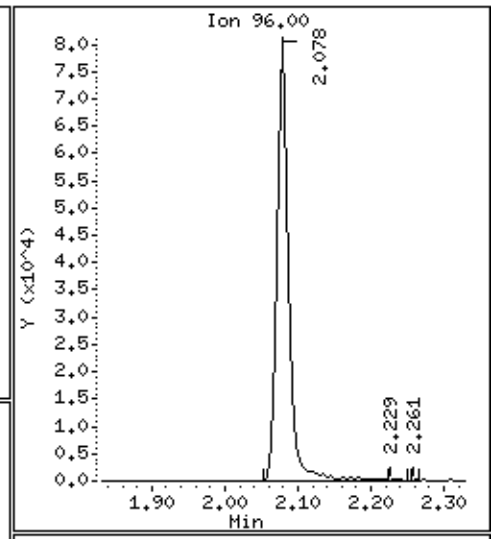
Concentration: 62.6 ppb

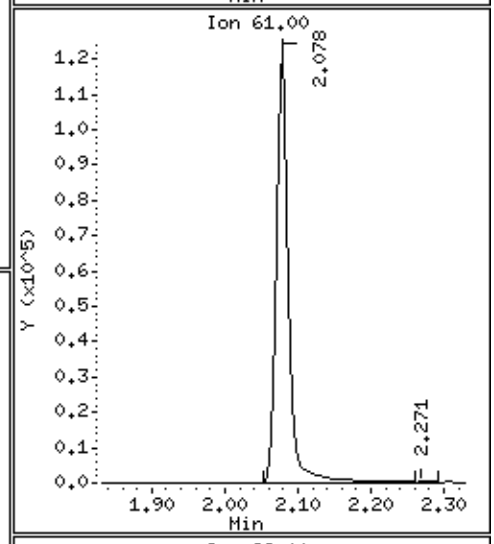


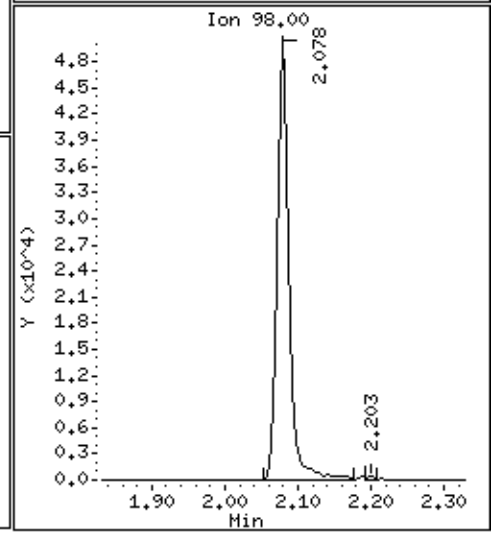












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

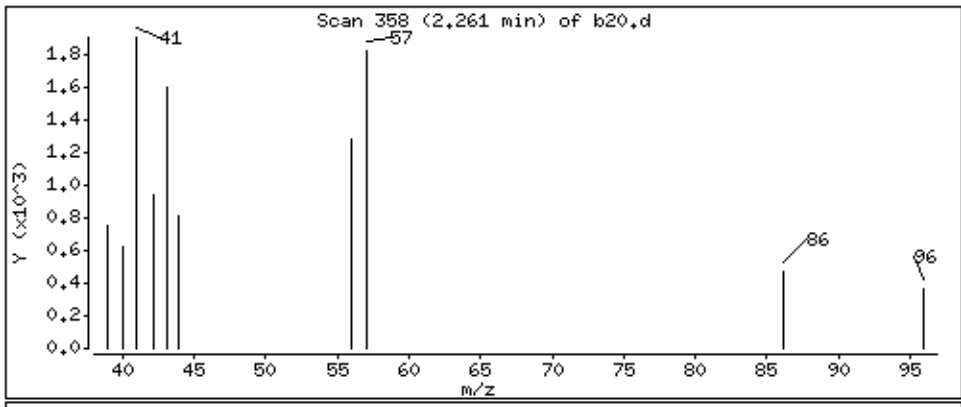
Operator: grm

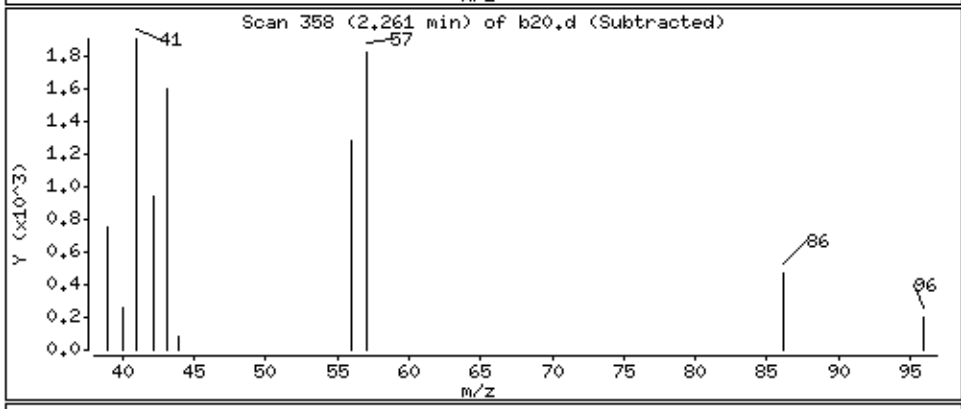
Column phase: DB-624

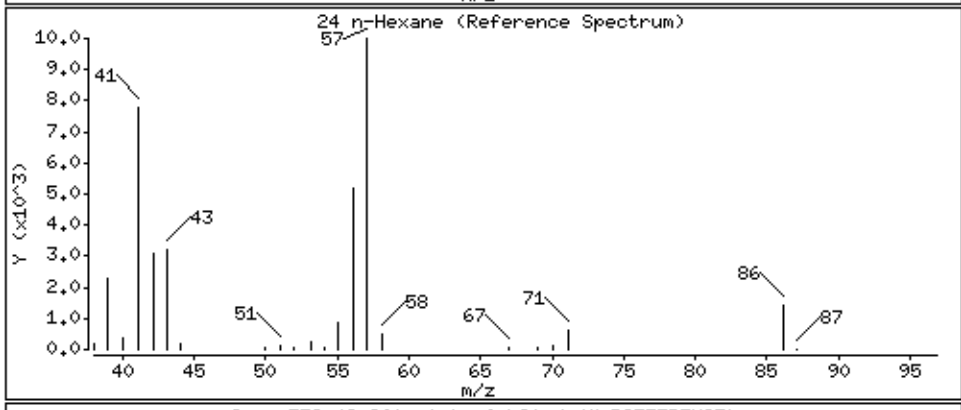
Column diameter: 0.18

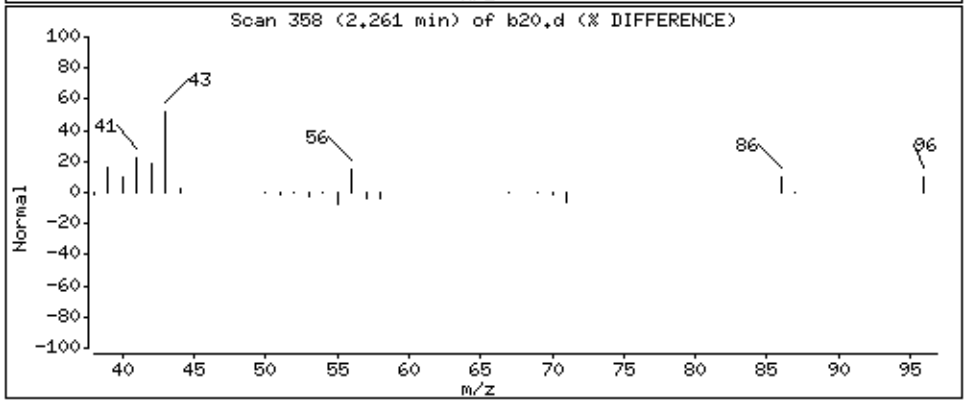
24 n-Hexane

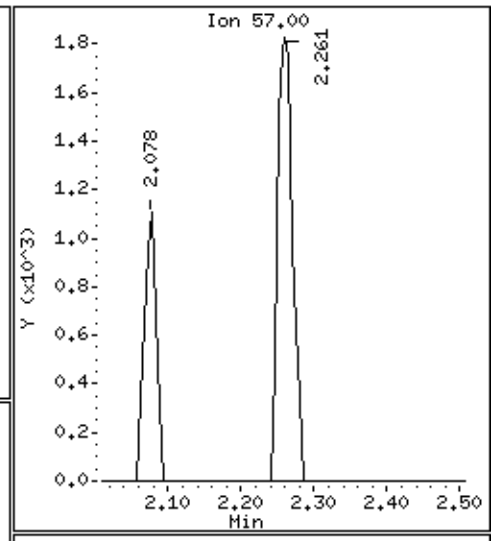
Concentration: 1.02 ppb

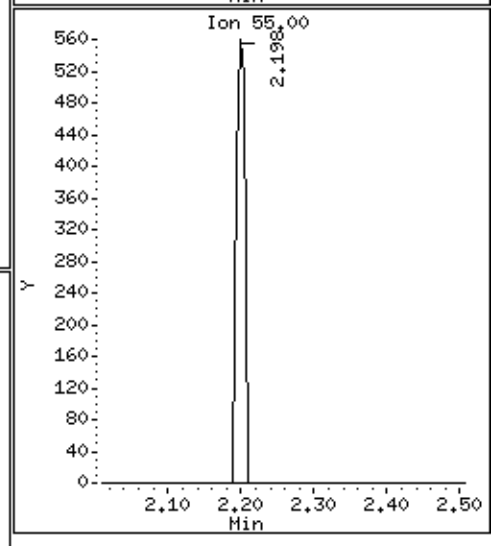












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

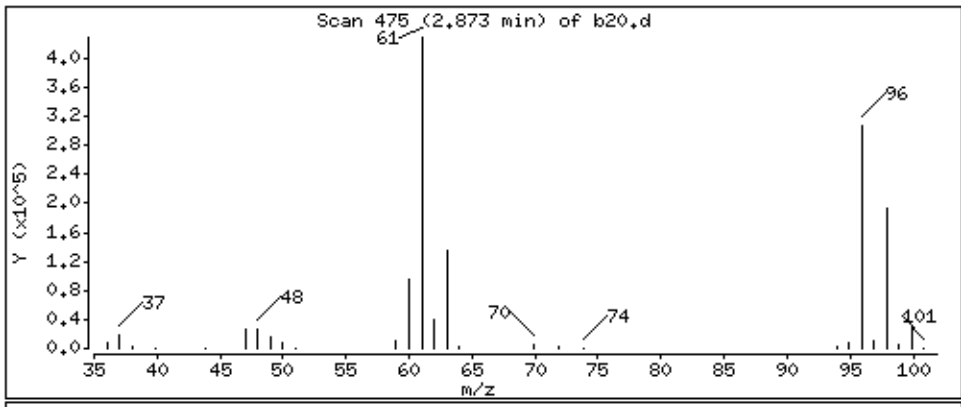
Operator: grm

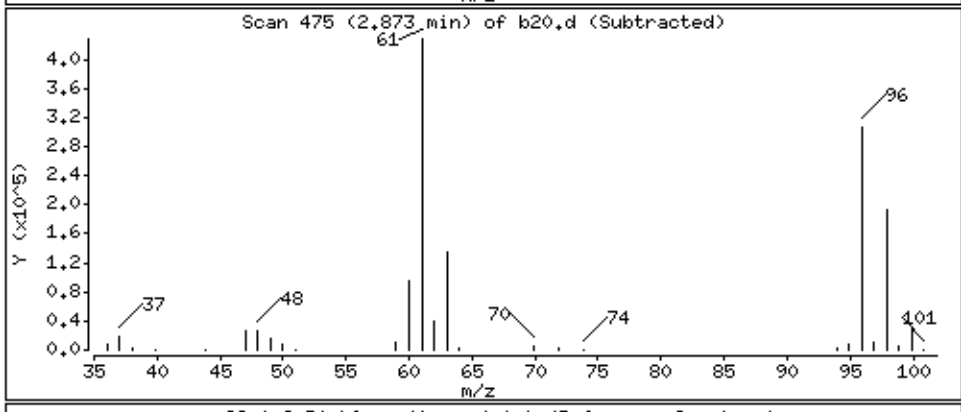
Column phase: DB-624

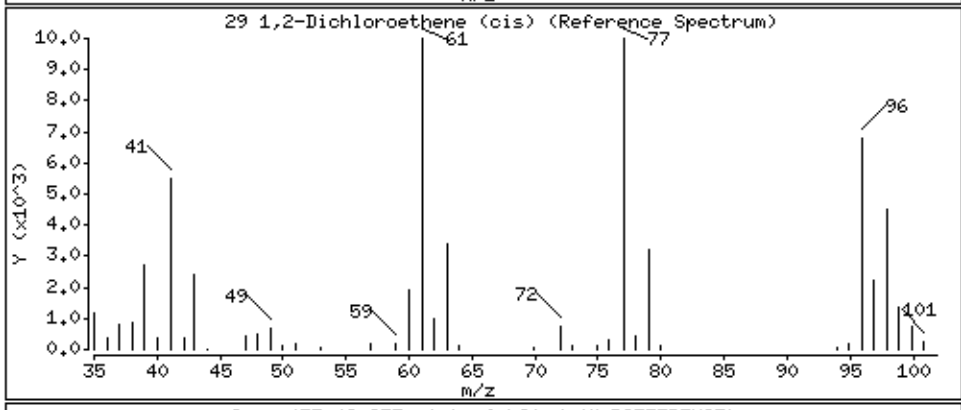
Column diameter: 0.18

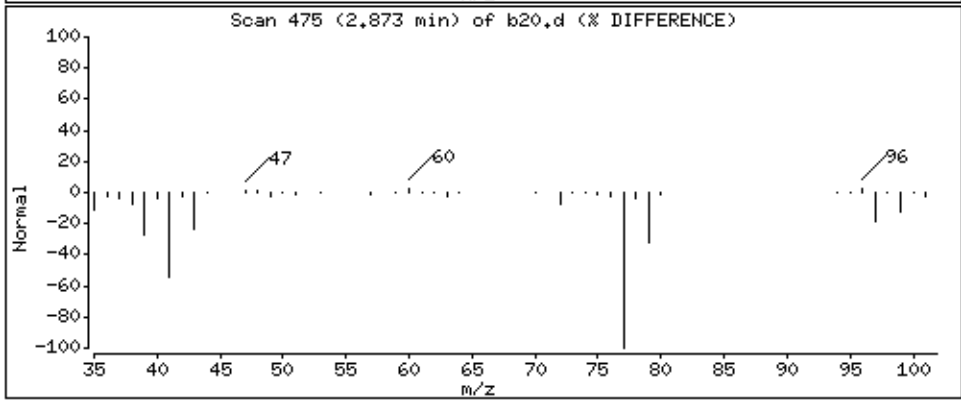
29 1,2-Dichloroethene (cis)

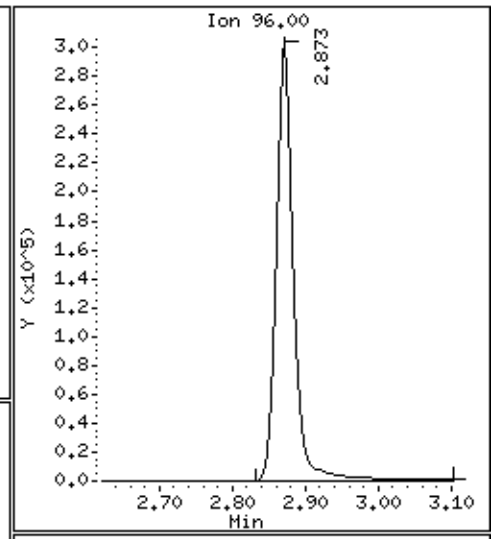
Concentration: 321 ppb

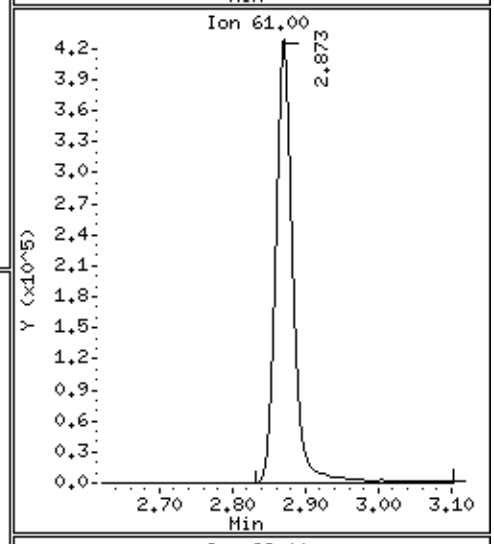


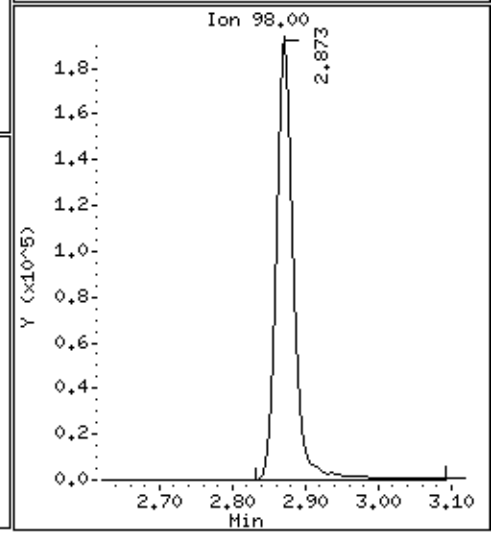












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

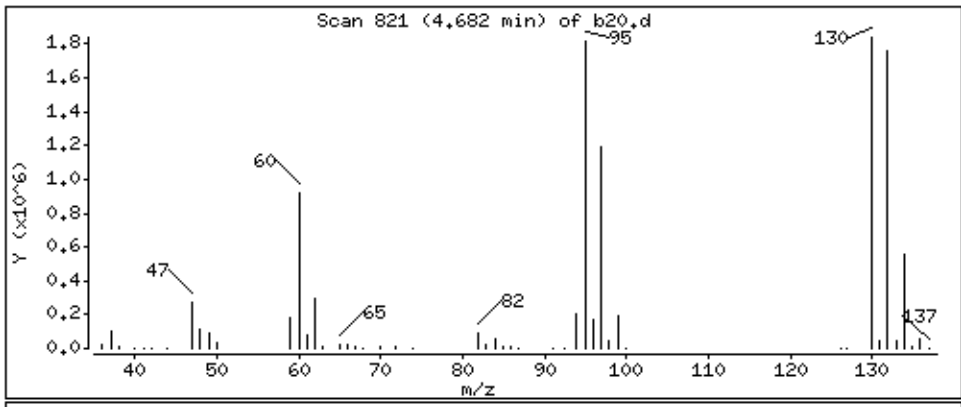
Operator: grm

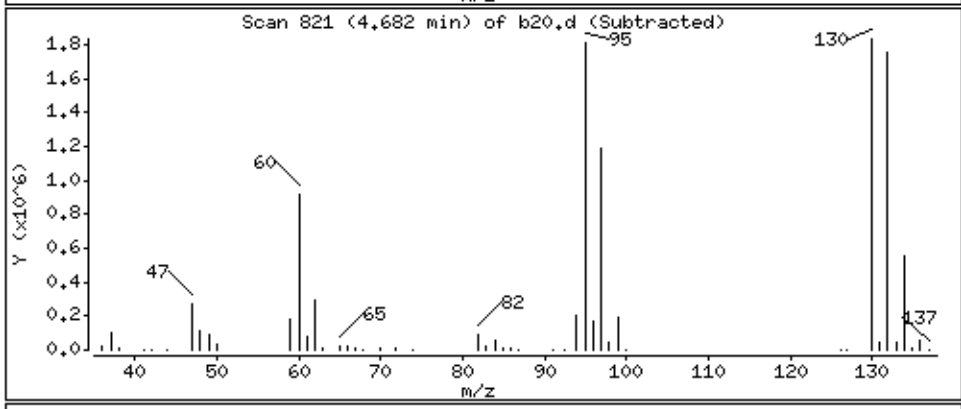
Column phase: DB-624

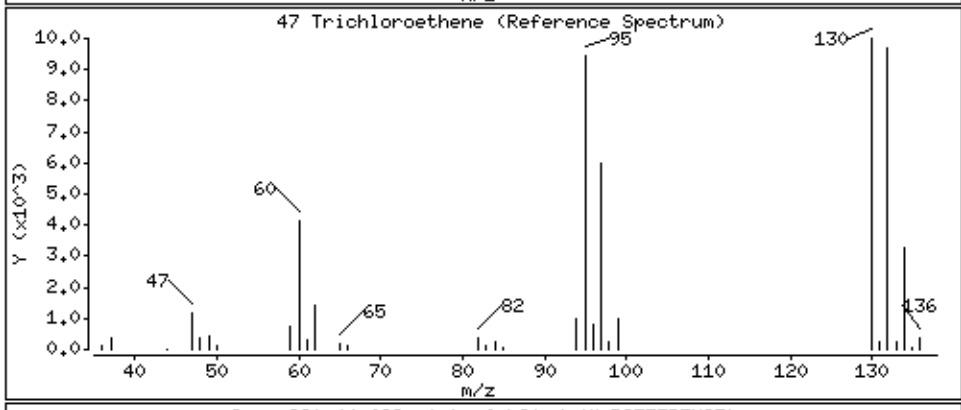
Column diameter: 0.18

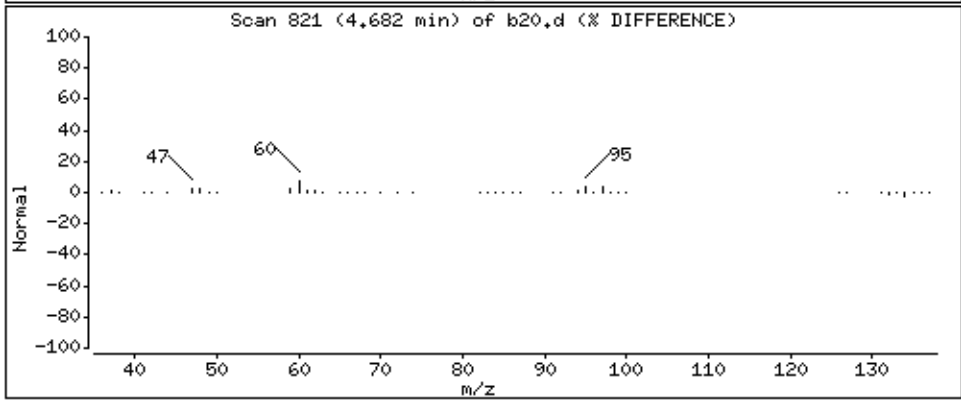
47 Trichloroethene

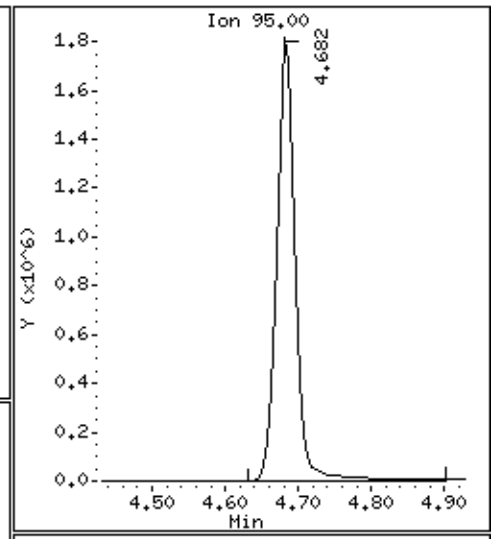
Concentration: 2100 ppb

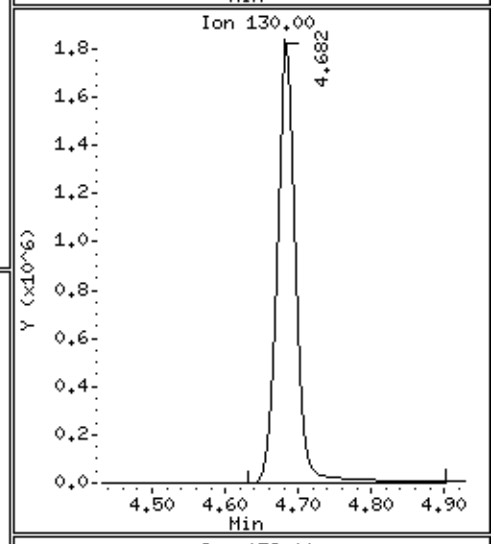


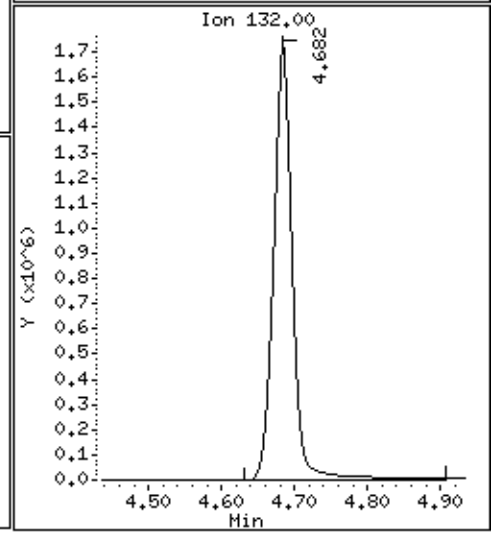












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b20.d

Date : 21-MAR-2016 01:36

Client ID: MW-0606-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212011

Purge Volume: 5.0

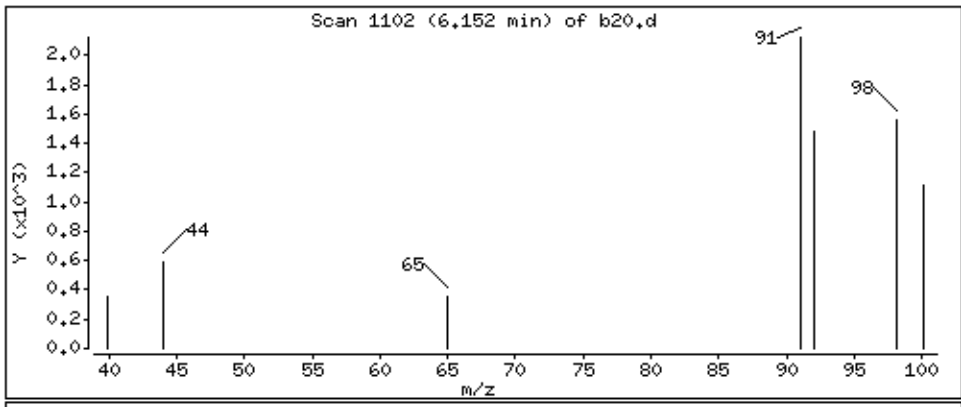
Operator: grm

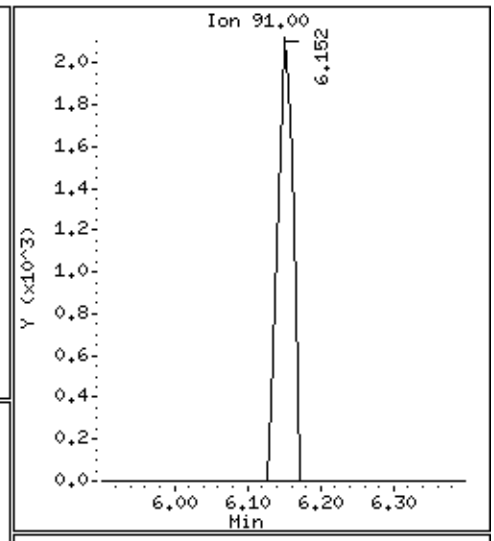
Column phase: DB-624

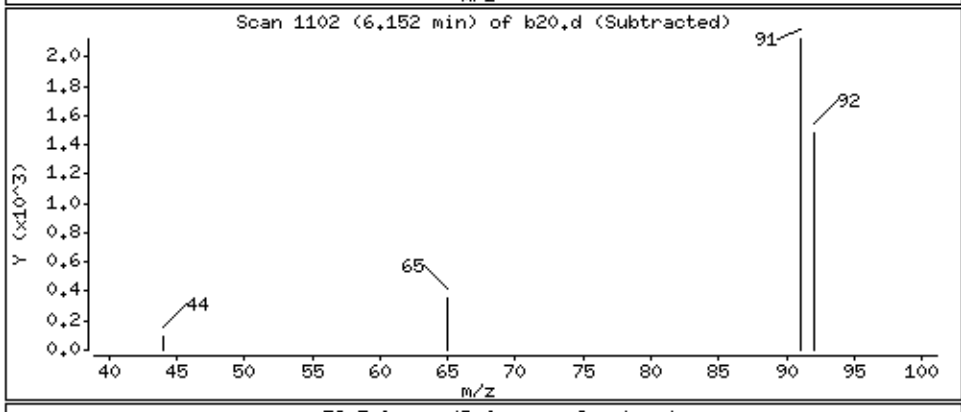
Column diameter: 0.18

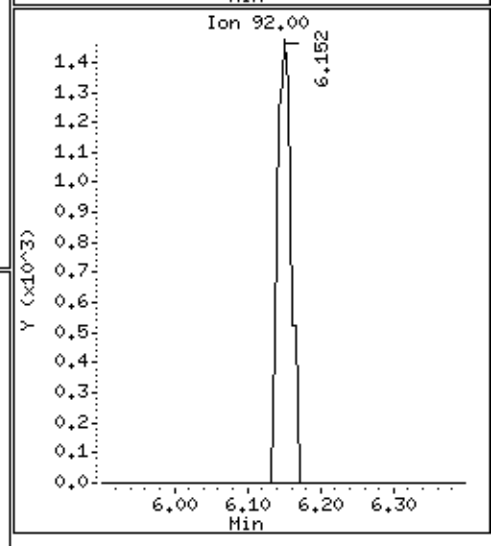
58 Toluene

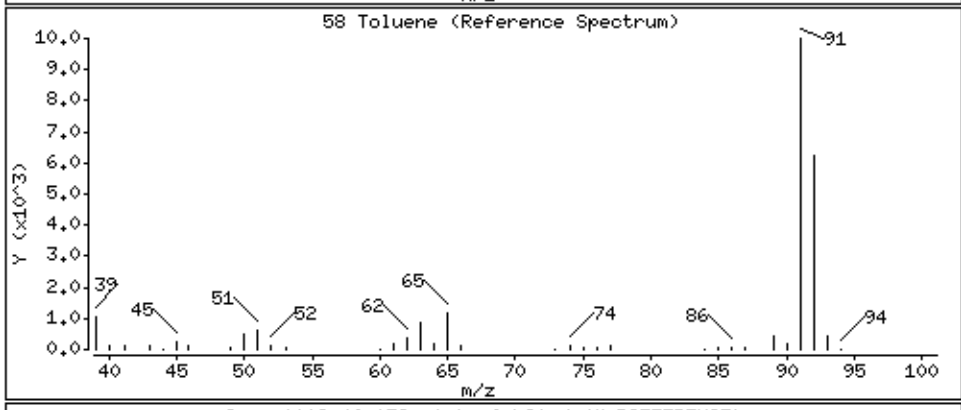
Concentration: 0.482 ppb

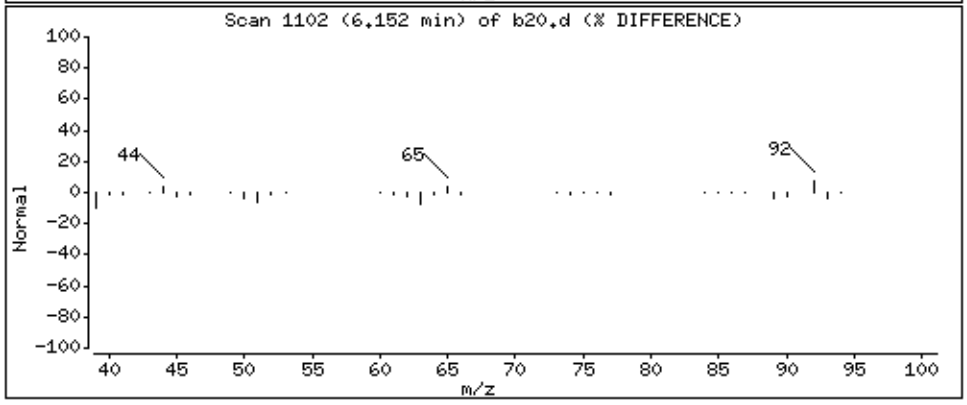












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b/b20.d
Injection Date: 21-MAR-2016 01:36
Instrument: 50mv1b.i
Lab Sample ID: 50140212011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0622-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 14:53 Lab Sample ID: 50140212012

Date Analyzed: 03/18/2016 14:53 Lab File ID: B031816.B\B04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 20 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	946	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0622-S1(030916)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 14:53 Lab Sample ID: 50140212012

Date Analyzed: 03/18/2016 14:53 Lab File ID: B031816.B\B04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 20 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d
Lab Smp Id: 50140212012 Client Smp ID: MW-622-S1(030916)
Inj Date : 18-MAR-2016 14:53
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212012x20
Misc Info : 88079
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031816.b\b8260_a_c.m
Meth Date : 20-Mar-2016 20:59 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 55
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.013	1.013	(0.240)	1854	0.54750	10.9	
	7 Diethyl ether	74	1.499	1.499	(0.355)	488	0.71896	14.4(Q)	
	18 Methylene Chloride	84	1.907	1.902	(0.451)	1099	0.67893	13.6(Q)	
	22 1,2-Dichloroethene (trans)	96	2.080	2.080	(0.492)	1144	0.76441	15.3	
	29 1,2-Dichloroethene (cis)	96	2.870	2.870	(0.679)	73684	47.2809	946	
$	38 Dibromofluoromethane (S)	113	3.398	3.398	(0.803)	77686	52.7680	52.8	
*	46 Fluorobenzene (IS)	96	4.230	4.230	(1.000)	283508	50.0000		
	47 Trichloroethene	95	4.679	4.679	(1.106)	835035	551.099	11000	
$	57 Toluene-d8	98	6.076	6.076	(0.822)	263849	49.6978	49.7	
	58 Toluene	91	6.154	6.149	(0.832)	3202	0.49173	9.83	
*	67 Chlorobenzene-D5 (IS)	117	7.394	7.389	(1.000)	204467	50.0000		
$	76 4-Bromofluorobenzene	95	8.210	8.210	(1.110)	97095	52.3110	52.3	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.884	(1.000)	107997	50.0000		
	92 1,4-Dichlorobenzene	146	8.895	8.900	(1.001)	276	0.07399	1.48(Q)	

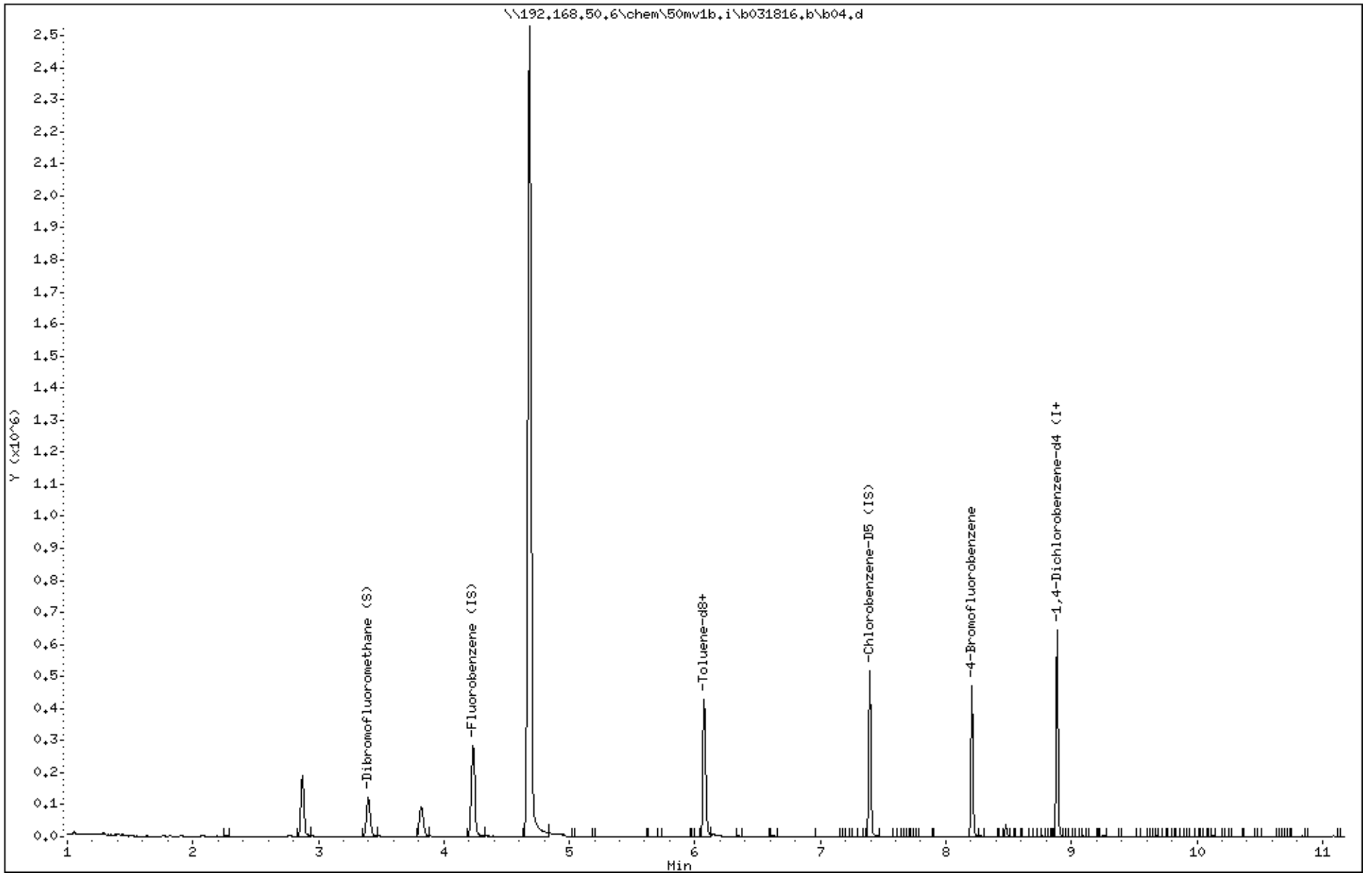
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d
Date : 18-MAR-2016 14:53
Client ID: MW-622-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212012x20
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

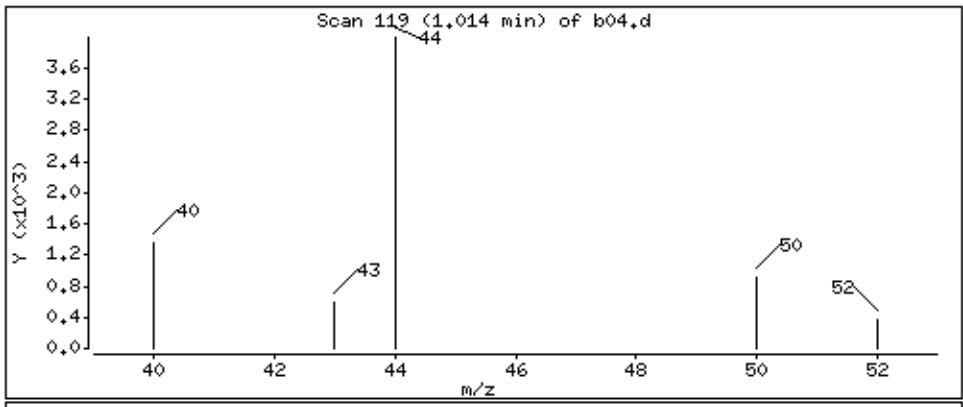
Operator: grm

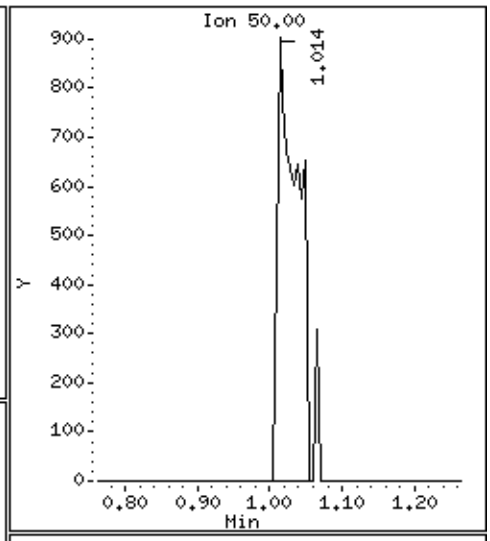
Column phase: DB-624

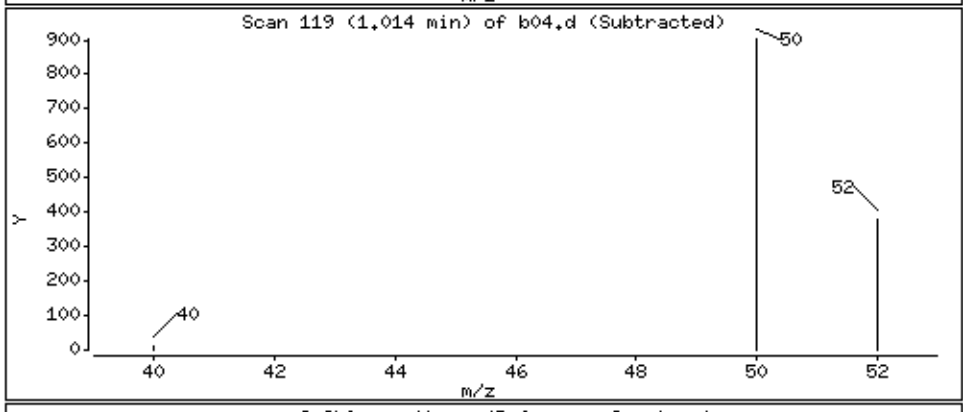
Column diameter: 0.18

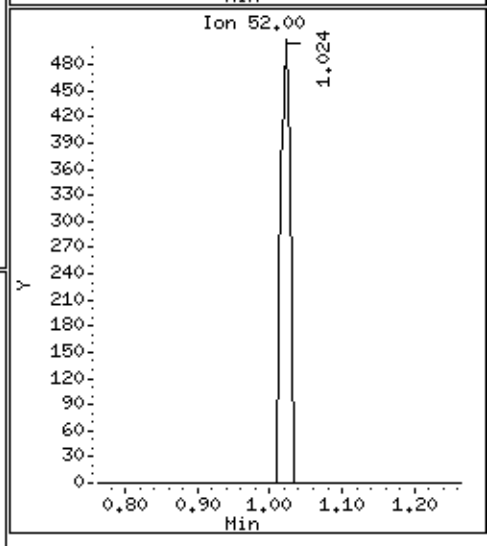
2 Chloromethane

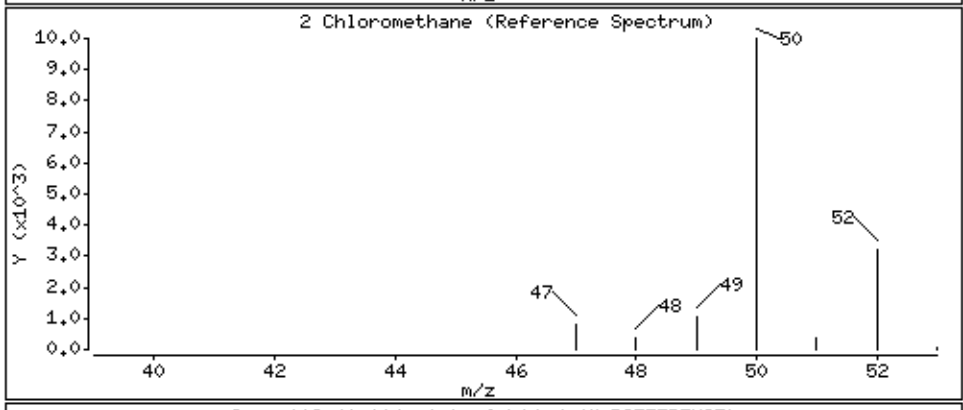
Concentration: 10.9 ppb

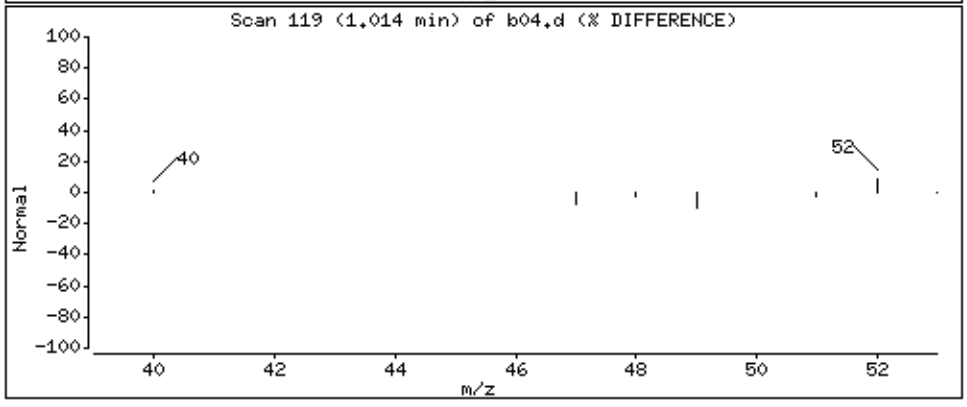












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

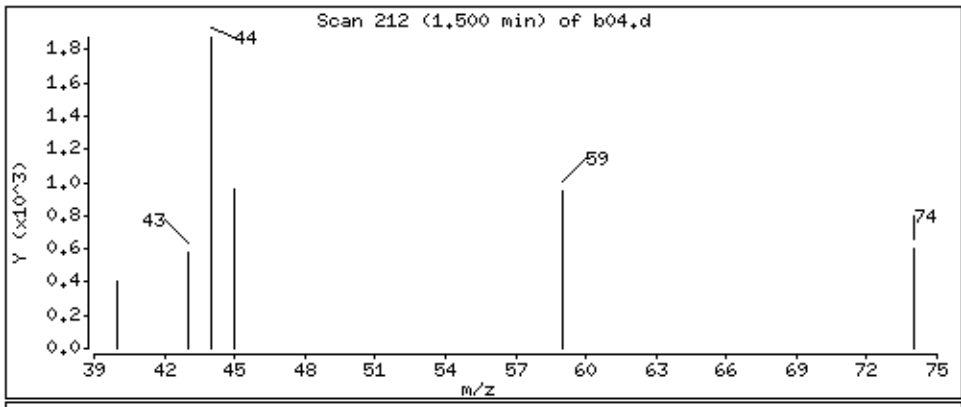
Operator: grm

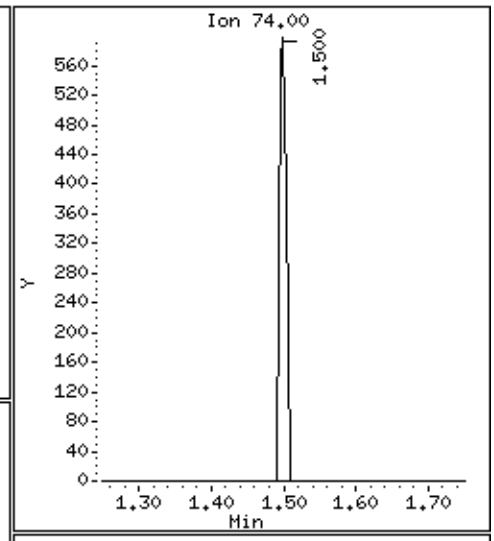
Column phase: DB-624

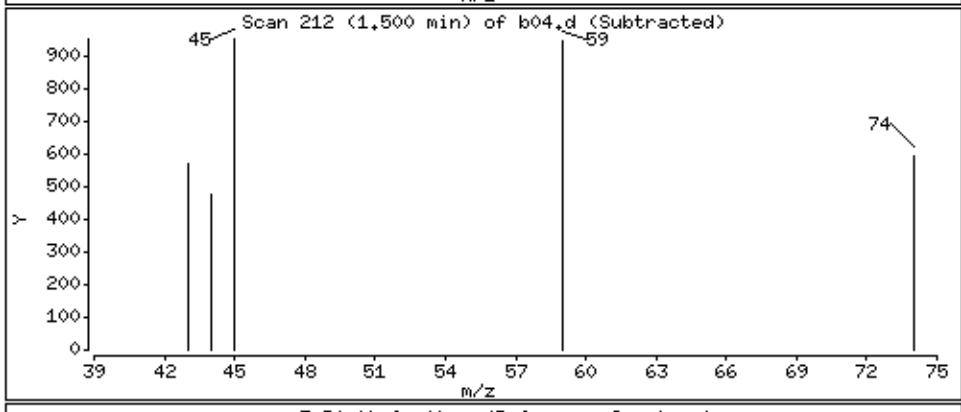
Column diameter: 0.18

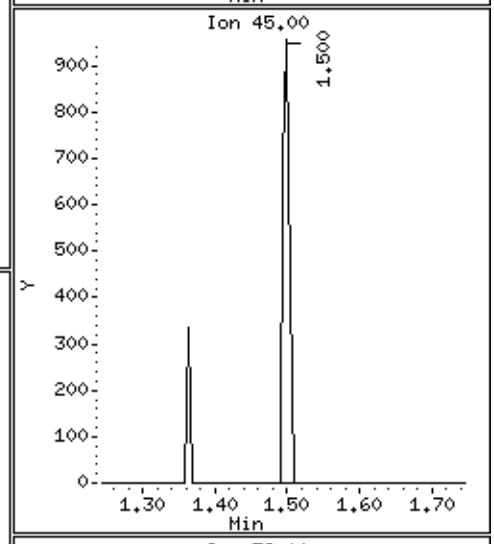
7 Diethyl ether

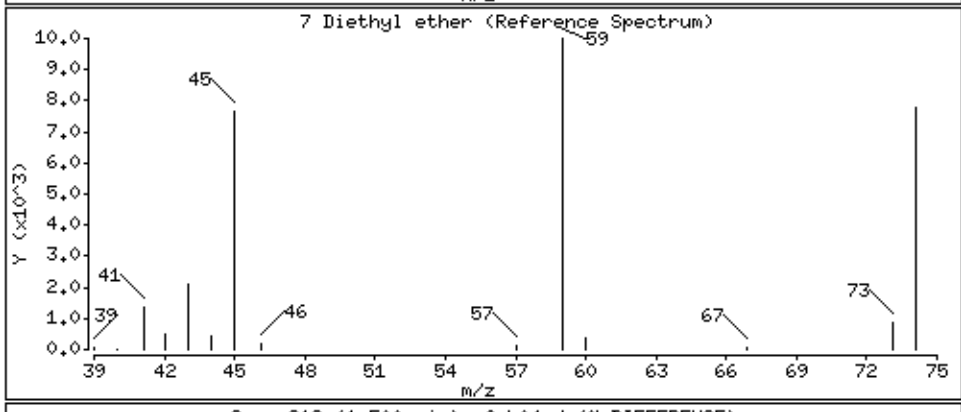
Concentration: 14.4 ppb

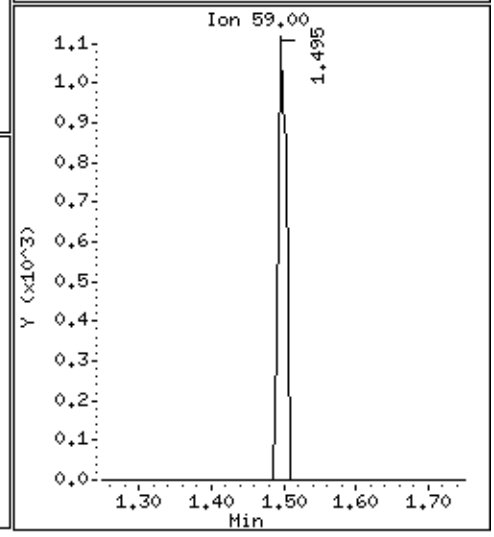


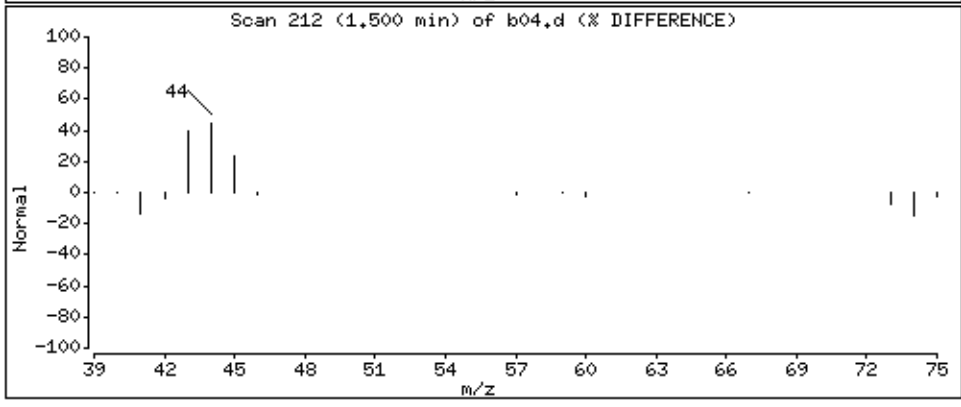












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

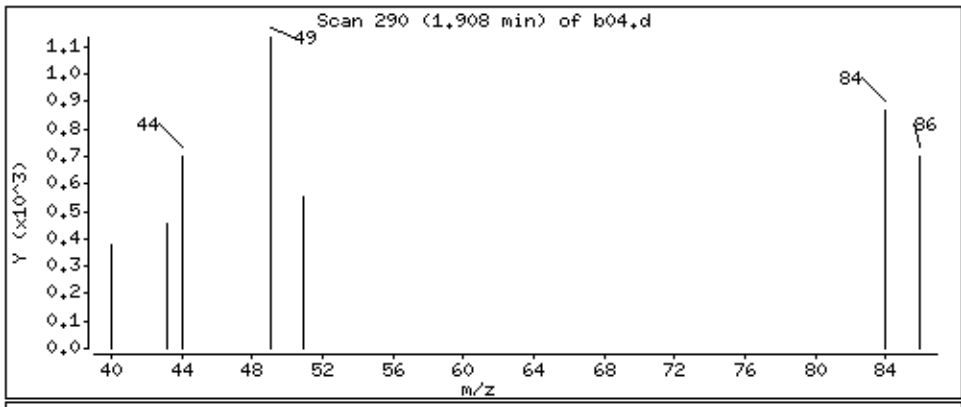
Operator: grm

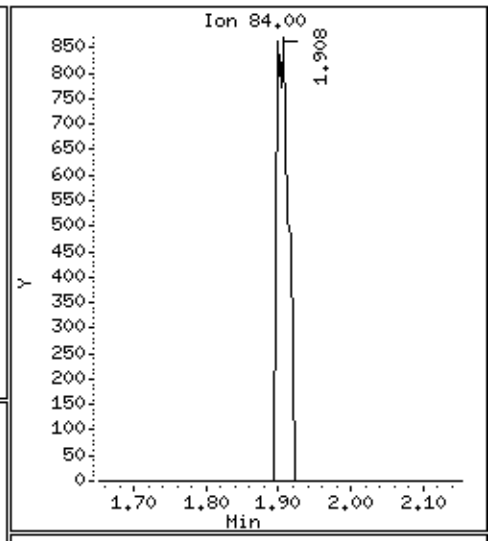
Column phase: DB-624

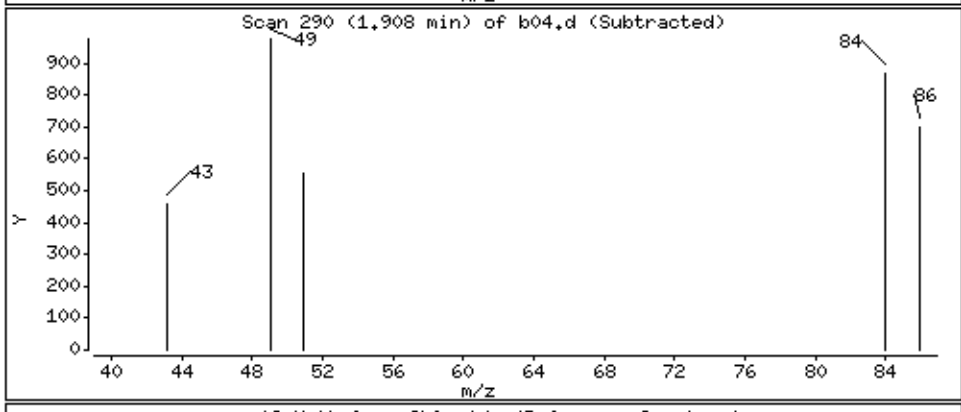
Column diameter: 0.18

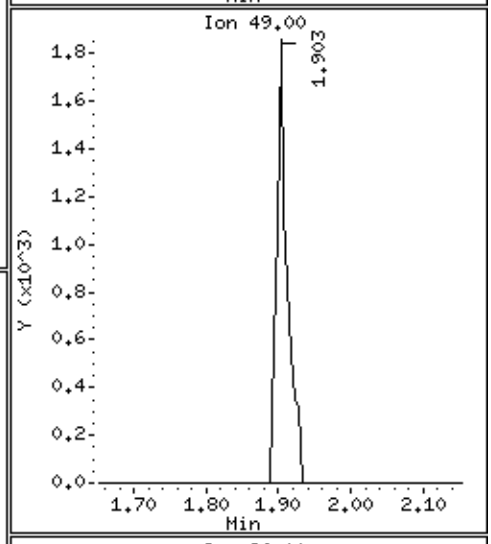
18 Methylene Chloride

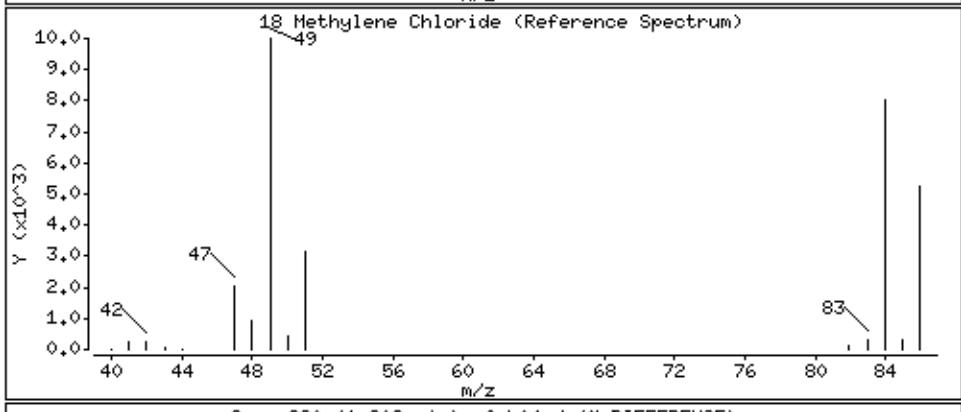
Concentration: 13.6 ppb

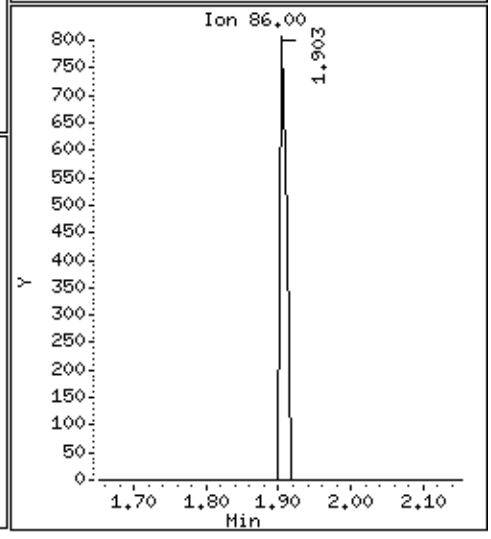


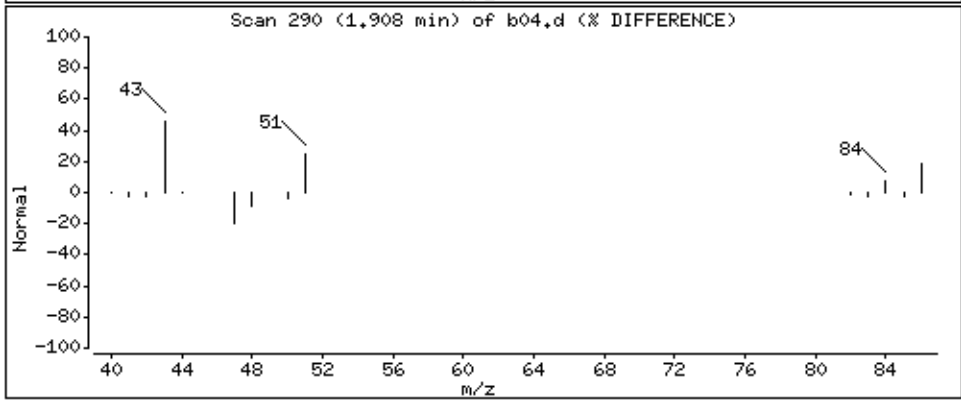












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

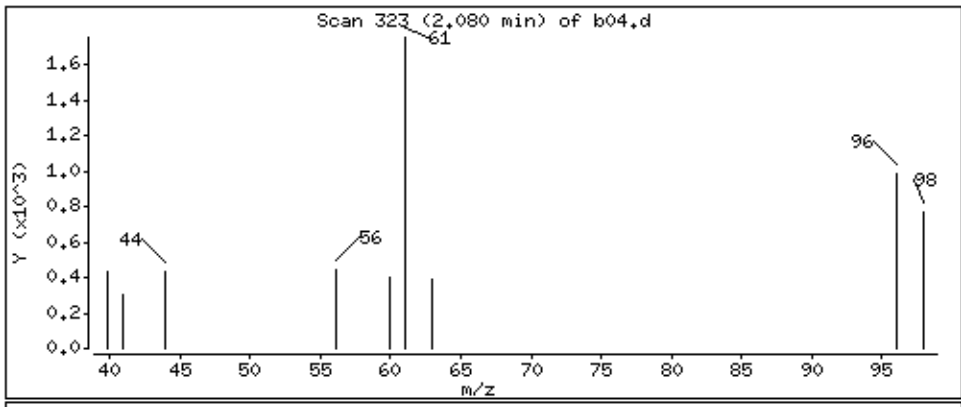
Operator: grm

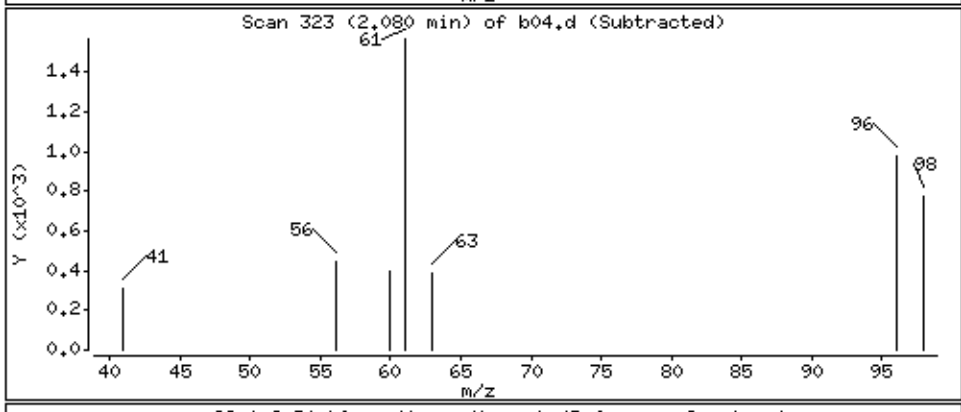
Column phase: DB-624

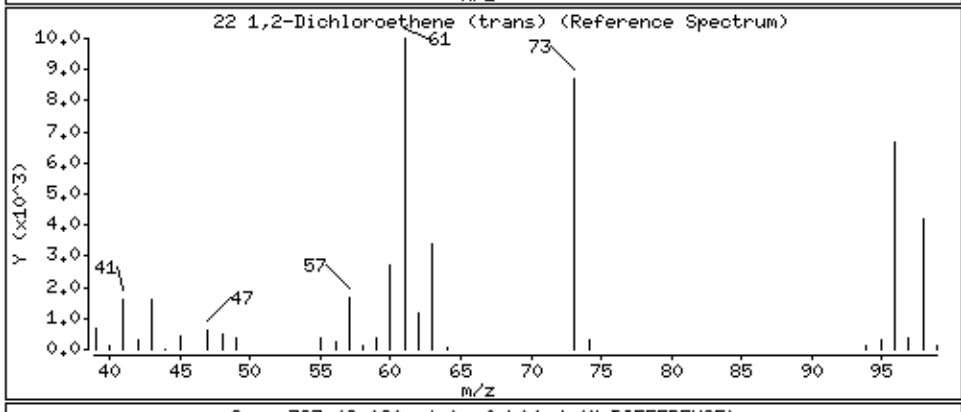
Column diameter: 0.18

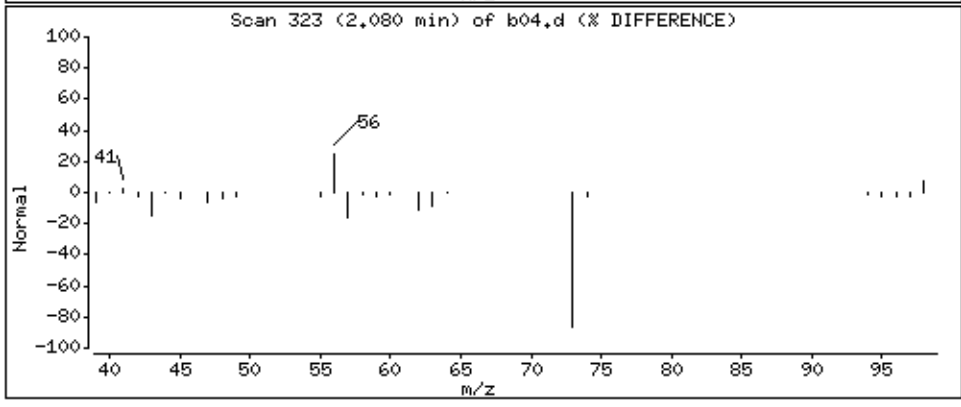
22 1,2-Dichloroethene (trans)

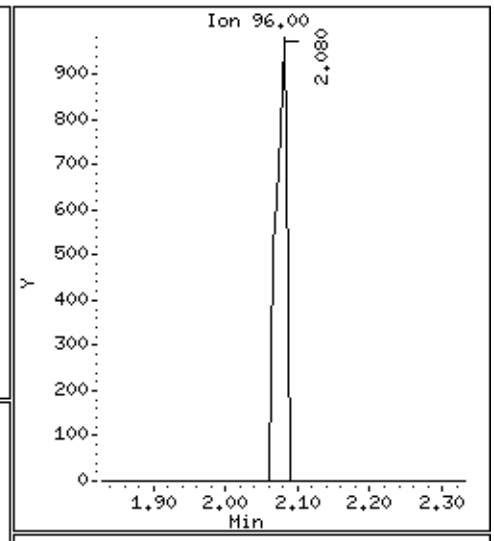
Concentration: 15.3 ppb

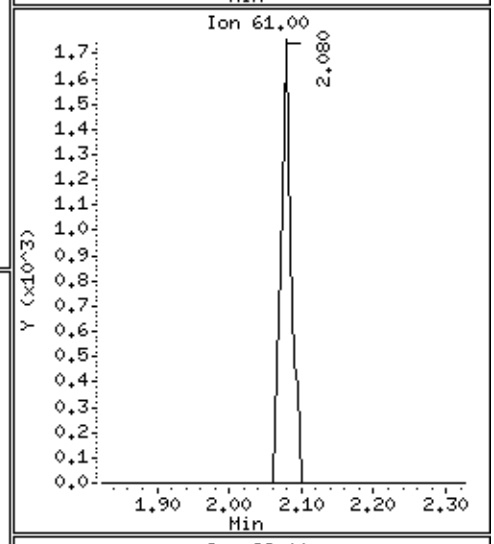


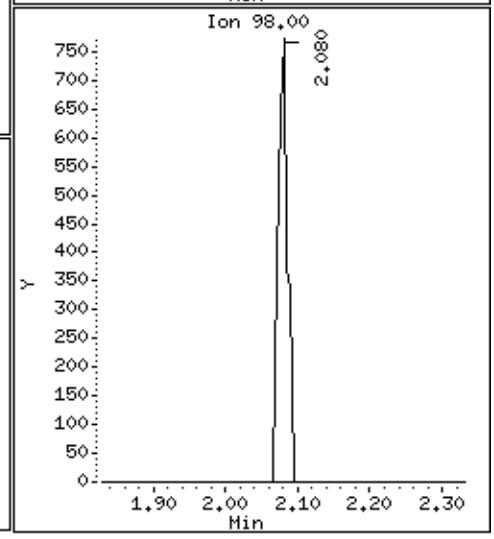












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

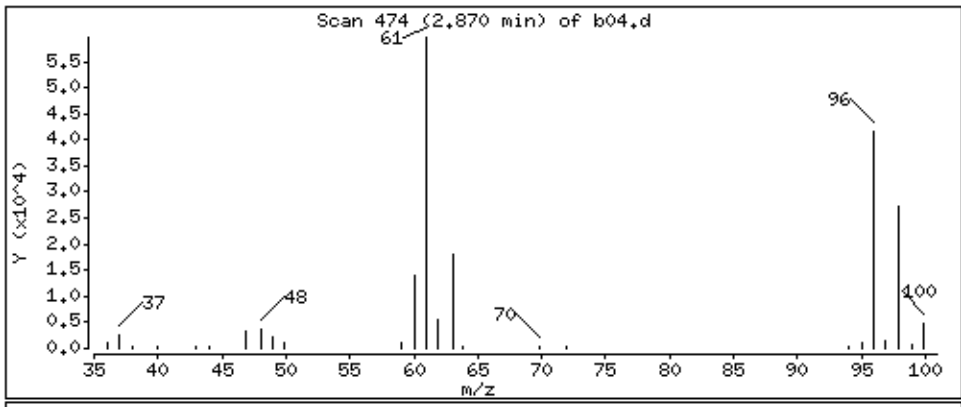
Operator: grm

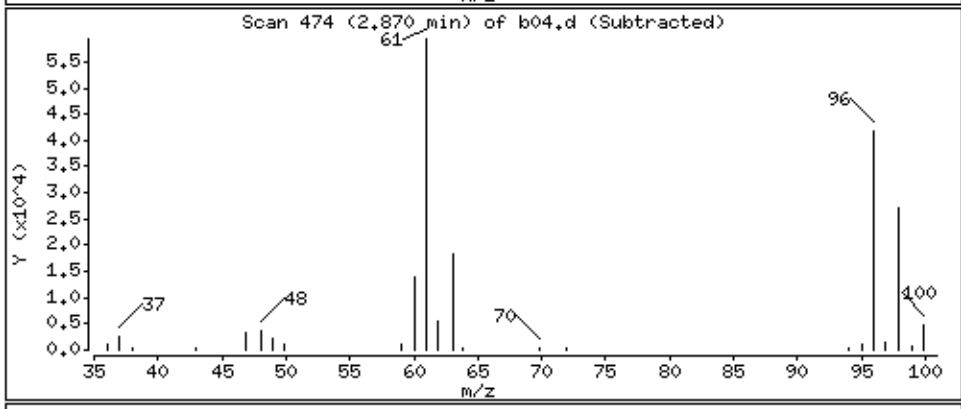
Column phase: DB-624

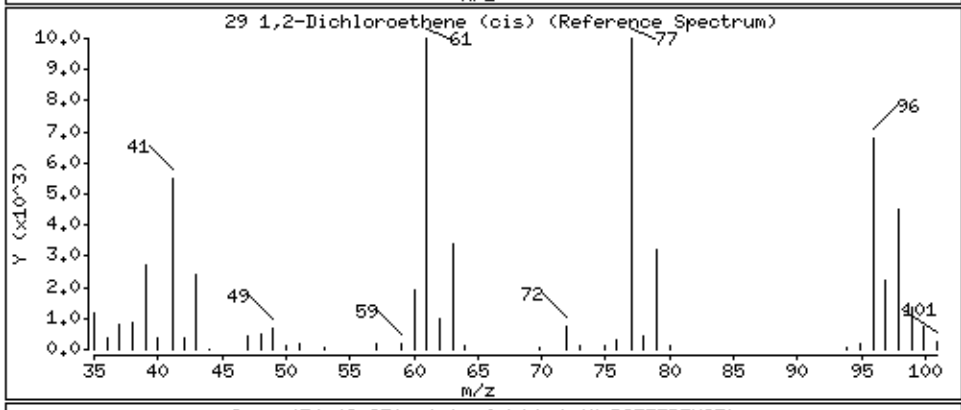
Column diameter: 0.18

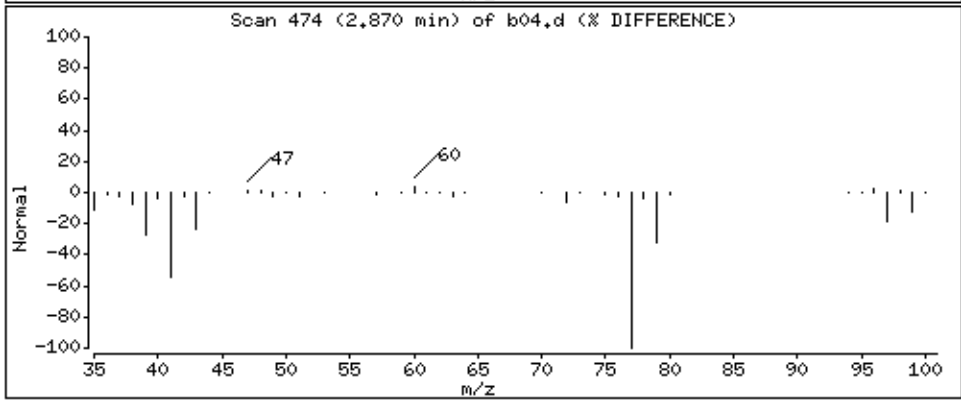
29 1,2-Dichloroethene (cis)

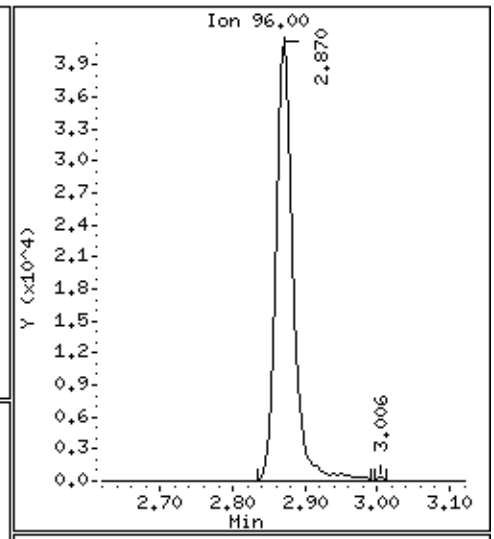
Concentration: 946 ppb

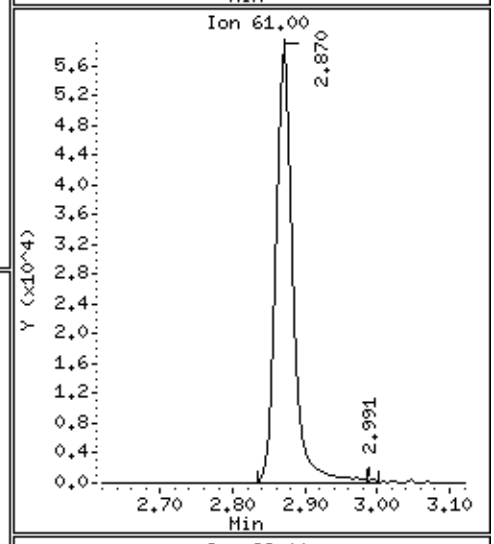


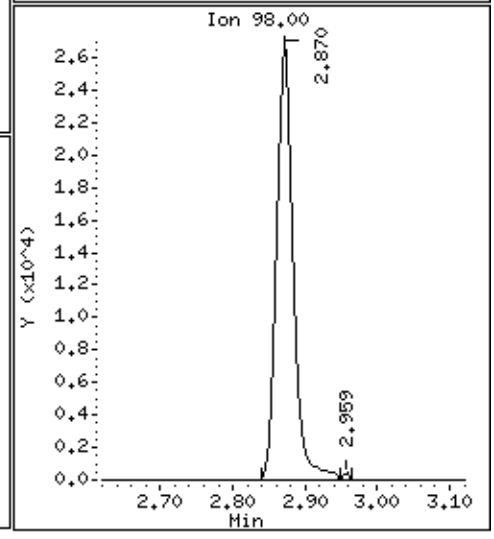












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

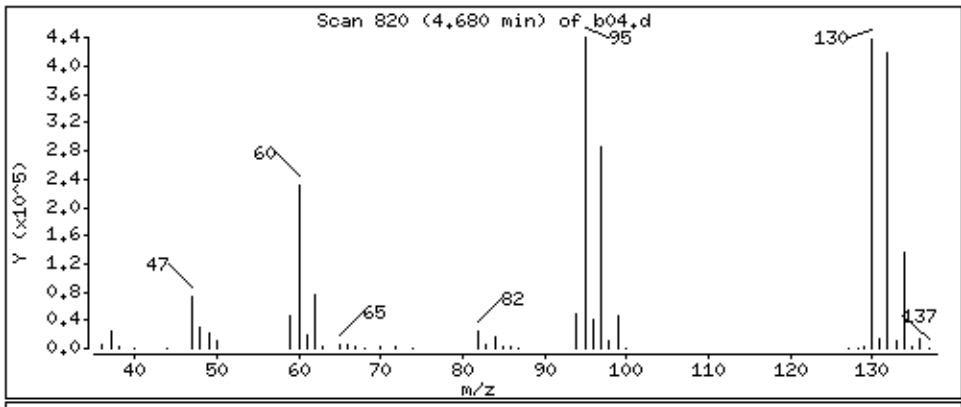
Operator: grm

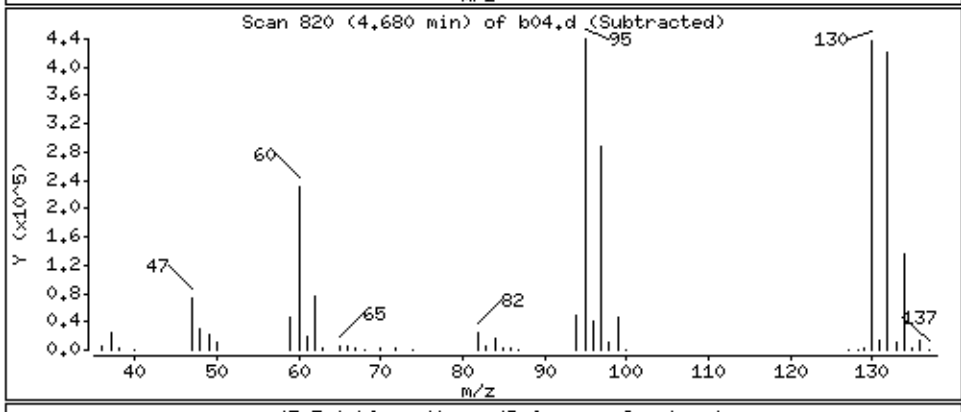
Column phase: DB-624

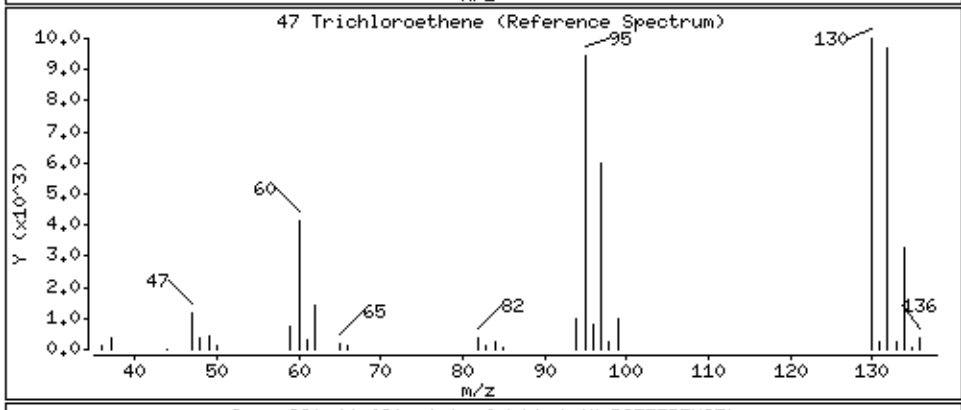
Column diameter: 0.18

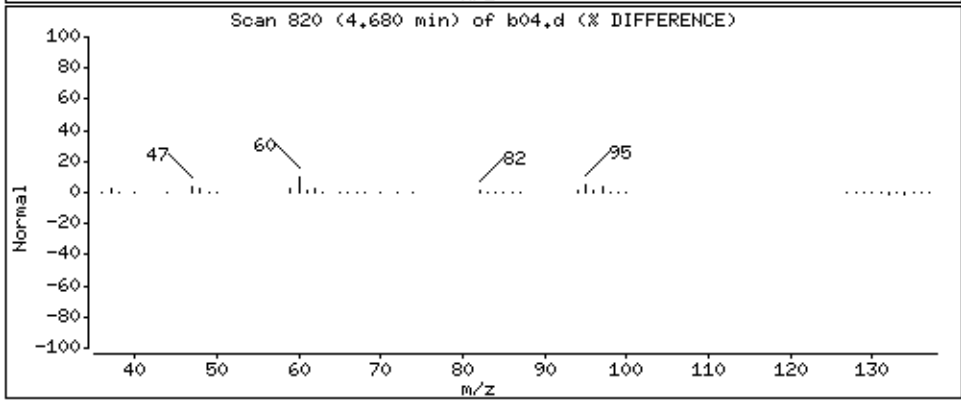
47 Trichloroethene

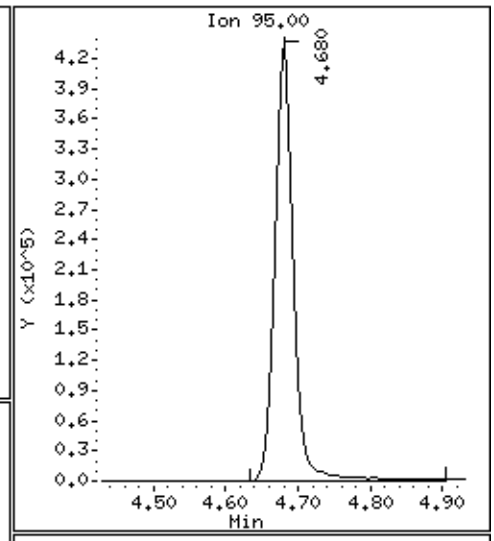
Concentration: 11000 ppb

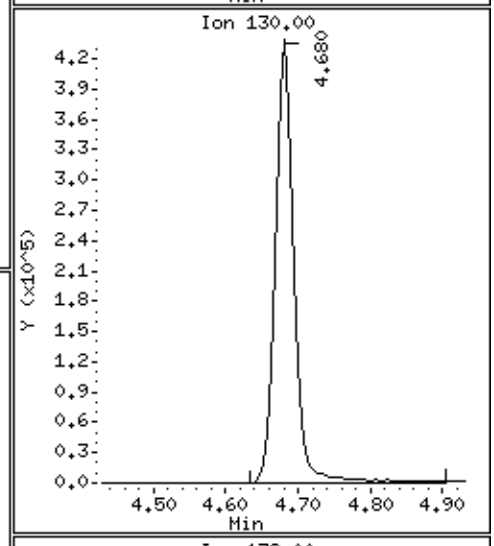


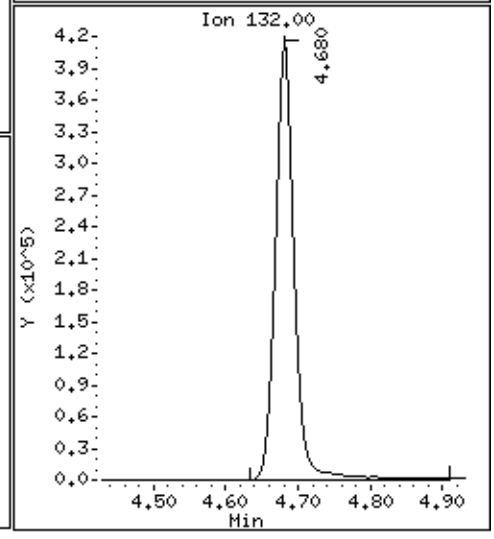












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

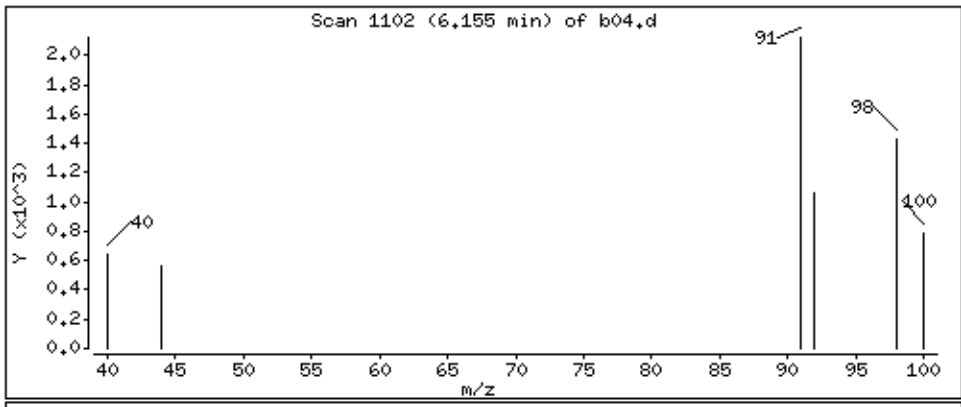
Operator: grm

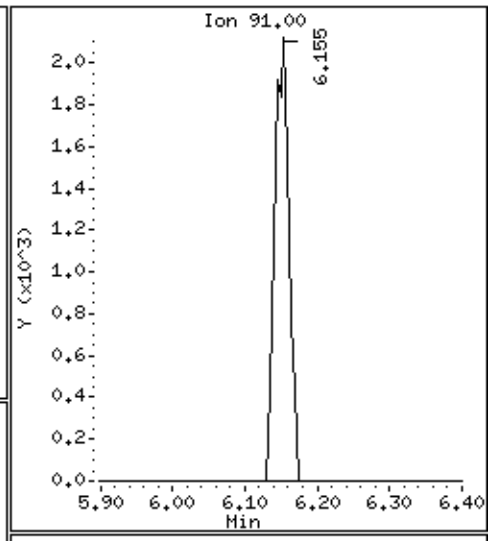
Column phase: DB-624

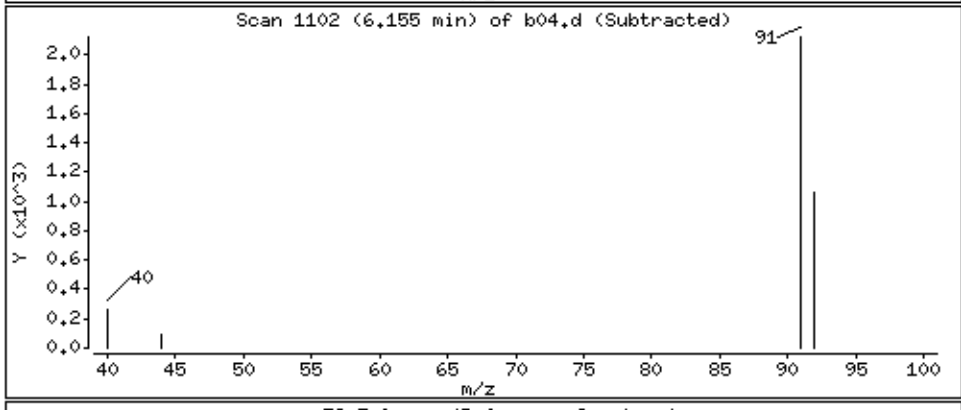
Column diameter: 0.18

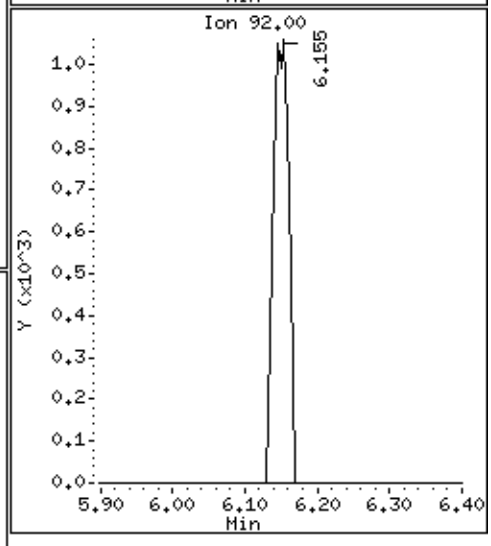
58 Toluene

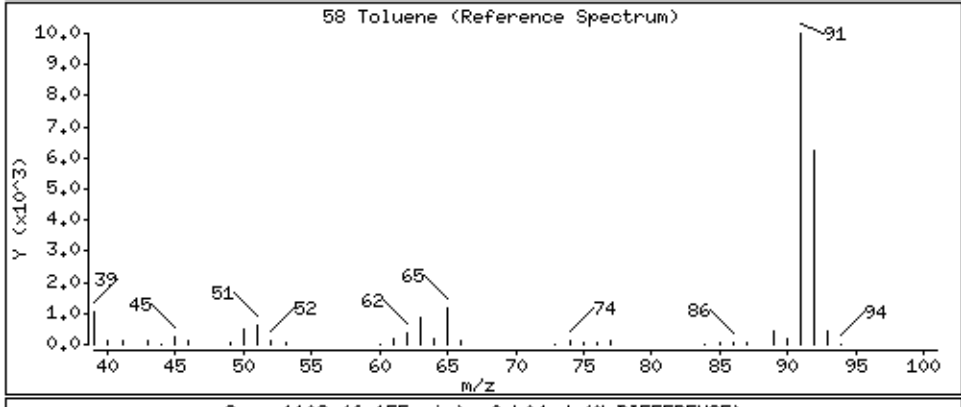
Concentration: 9.83 ppb

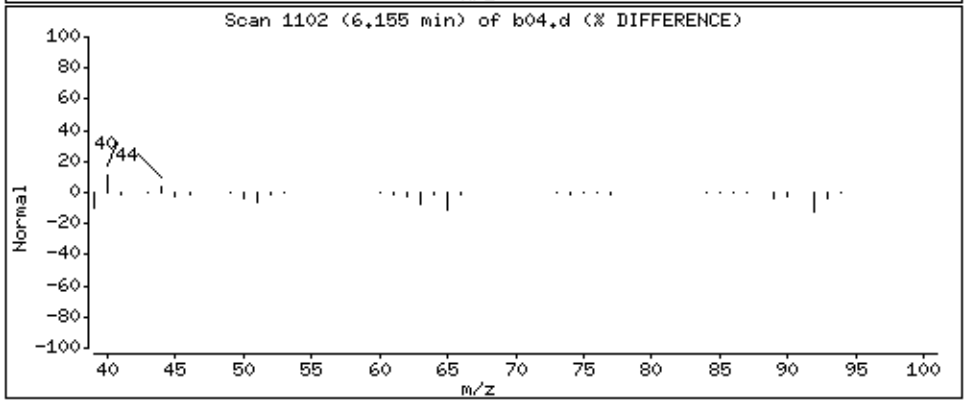












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b04.d

Date : 18-MAR-2016 14:53

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x20

Purge Volume: 5.0

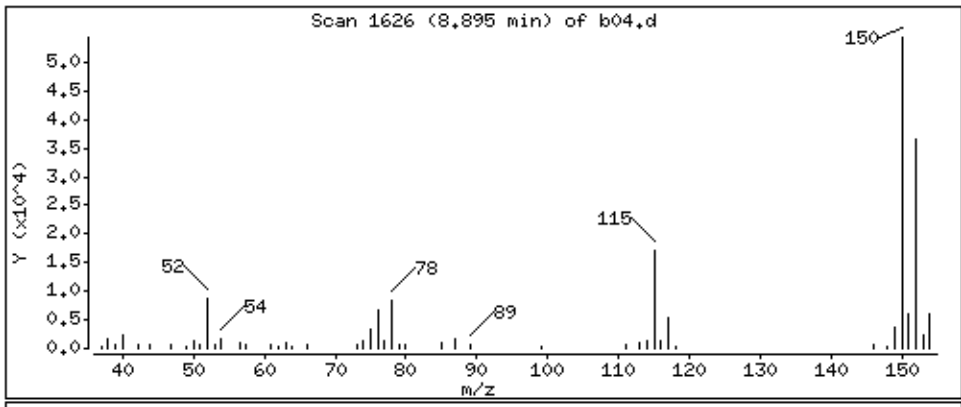
Operator: grm

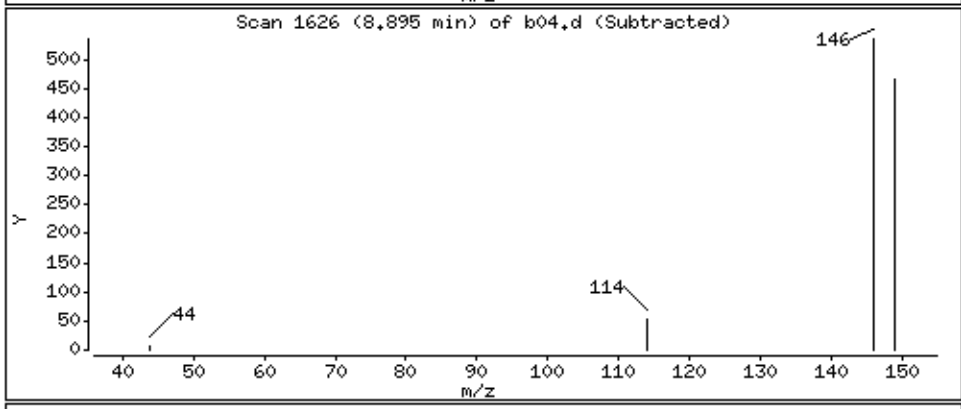
Column phase: DB-624

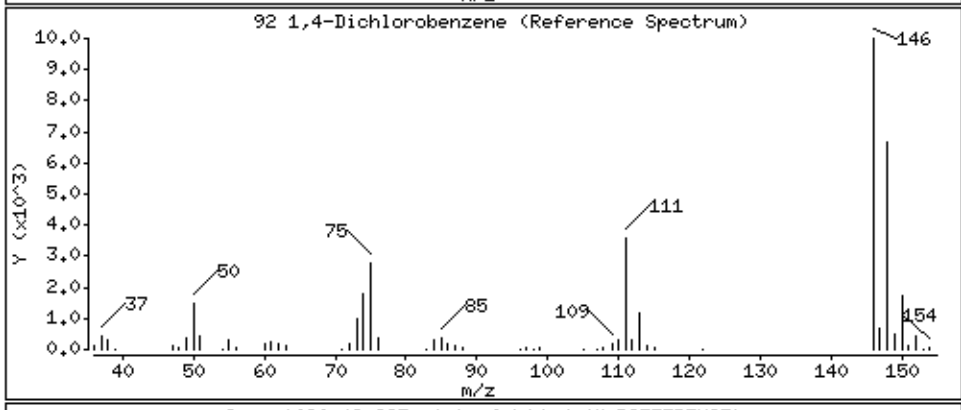
Column diameter: 0.18

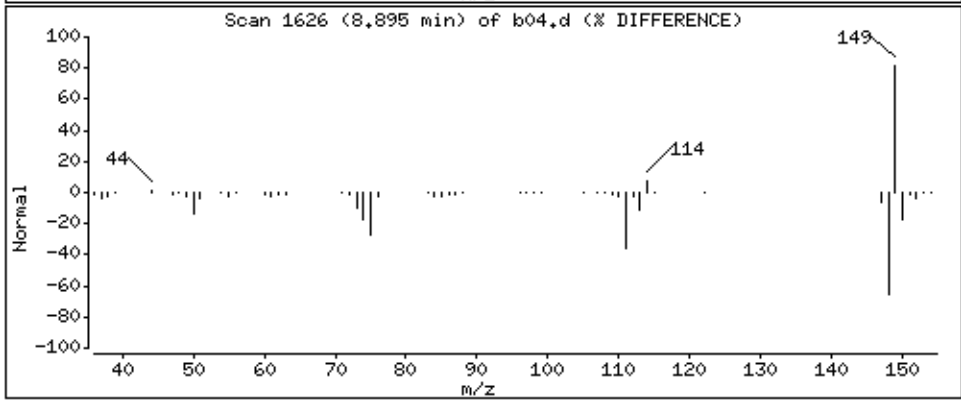
92 1,4-Dichlorobenzene

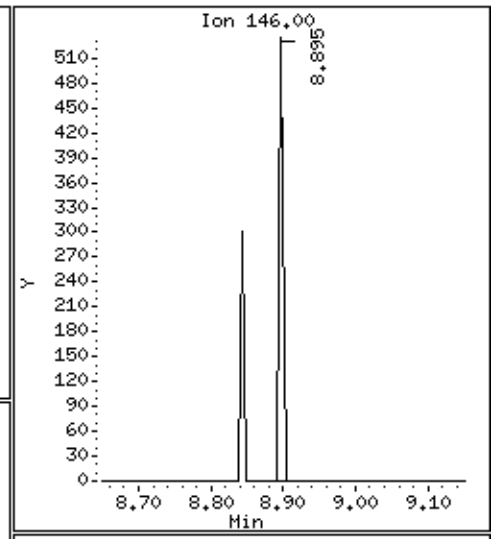
Concentration: 1.48 ppb

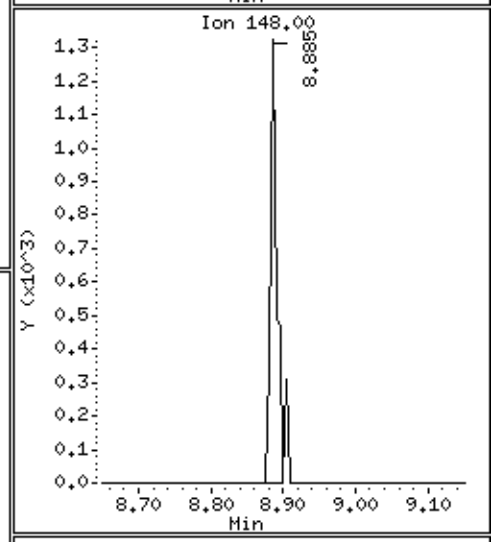


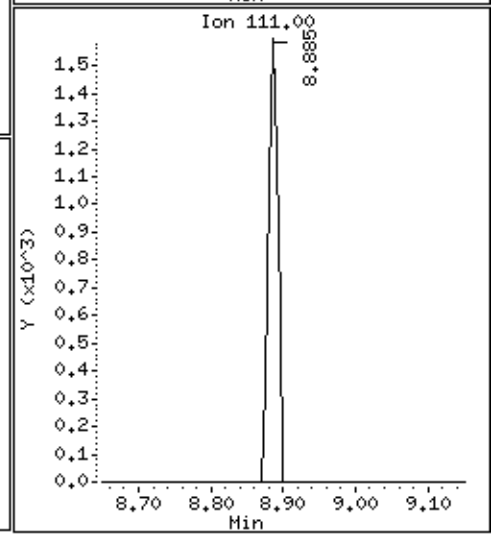












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b/b04.d
Injection Date: 18-MAR-2016 14:53
Instrument: 50mv1b.i
Lab Sample ID: 50140212012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0622-S1(030916)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 15:28 Lab Sample ID: 50140212012

Date Analyzed: 03/18/2016 15:28 Lab File ID: B031816.B\B05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 500 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	9610	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d
Lab Smp Id: 50140212012 Client Smp ID: MW-622-S1(030916)
Inj Date : 18-MAR-2016 15:28
Operator : grm Inst ID: 50mv1b.i
Smp Info : 50140212012x500
Misc Info : 88079
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031816.b\b8260_a_c.m
Meth Date : 20-Mar-2016 20:59 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 56
Dil Factor: 500.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

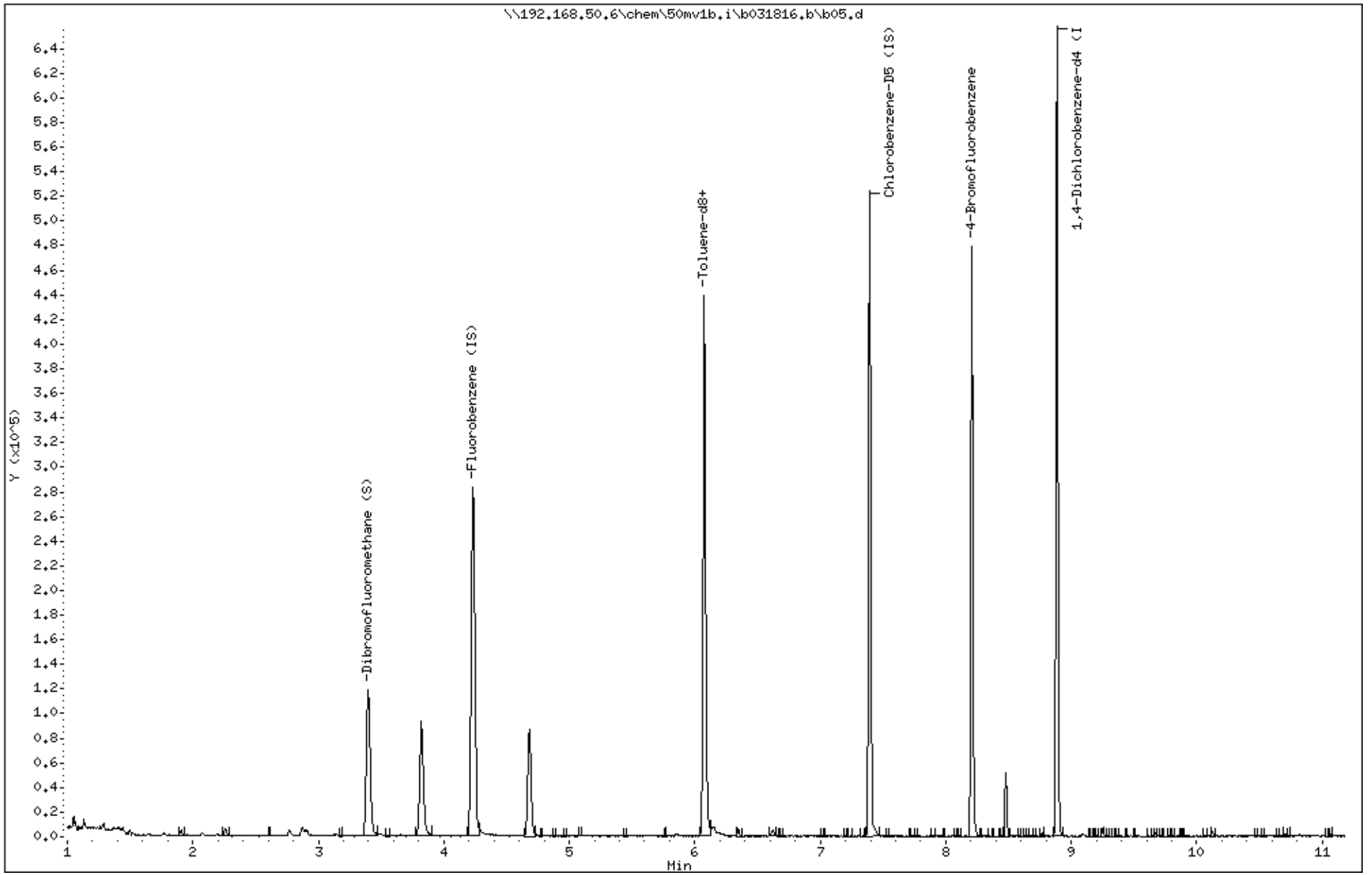
Name	Value	Description
DF	500.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	7 Diethyl ether	74	1.500	1.499	(0.355)	708	1.06586	533	
	18 Methylene Chloride	84	1.903	1.902	(0.450)	1032	0.65145	326	
	24 n-Hexane	57	2.259	2.258	(0.534)	1661	0.64484	322	
	29 1,2-Dichloroethene (cis)	96	2.870	2.870	(0.679)	2444	1.60248	801	
$	38 Dibromofluoromethane (S)	113	3.399	3.398	(0.803)	76233	52.9113	52.9	
*	46 Fluorobenzene (IS)	96	4.230	4.230	(1.000)	277452	50.0000		
	47 Trichloroethene	95	4.680	4.679	(1.106)	28514	19.2292	9610	
$	57 Toluene-d8	98	6.077	6.076	(0.822)	265399	49.4504	49.4	
	58 Toluene	91	6.150	6.149	(0.832)	3017	0.45832	229	
*	67 Chlorobenzene-D5 (IS)	117	7.389	7.389	(1.000)	206697	50.0000		
$	76 4-Bromofluorobenzene	95	8.205	8.210	(1.110)	99745	53.1589	53.2	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.885	8.884	(1.000)	111857	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d
Date : 18-MAR-2016 15:28
Client ID: MW-622-S1(030916)
Instrument: 50mv1b.i
Sample Info: 50140212012x500
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

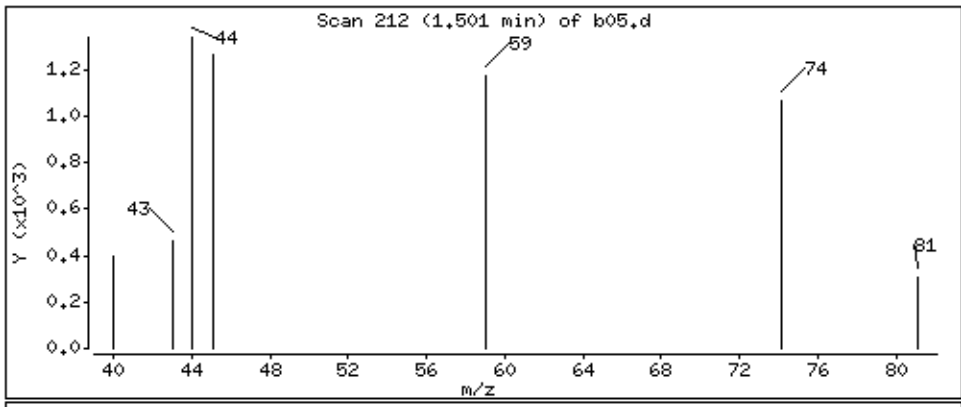
Operator: grm

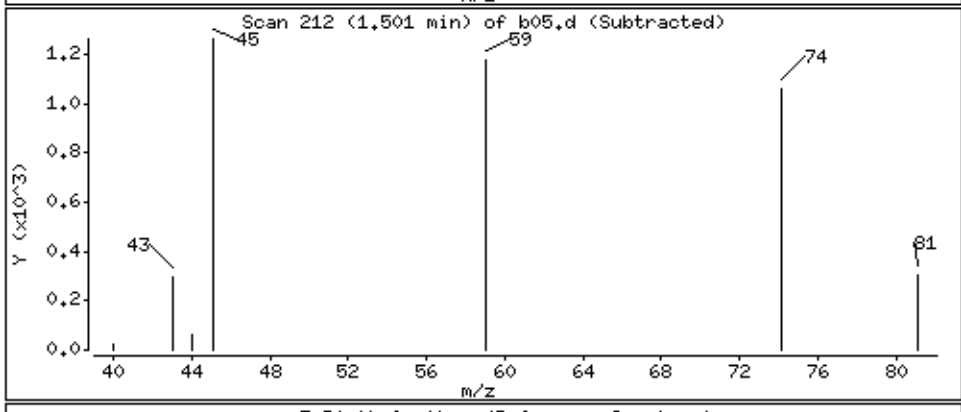
Column phase: DB-624

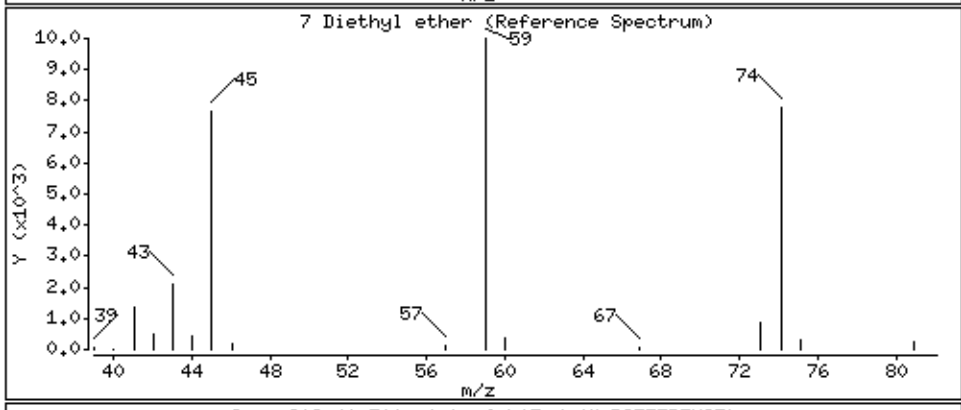
Column diameter: 0.18

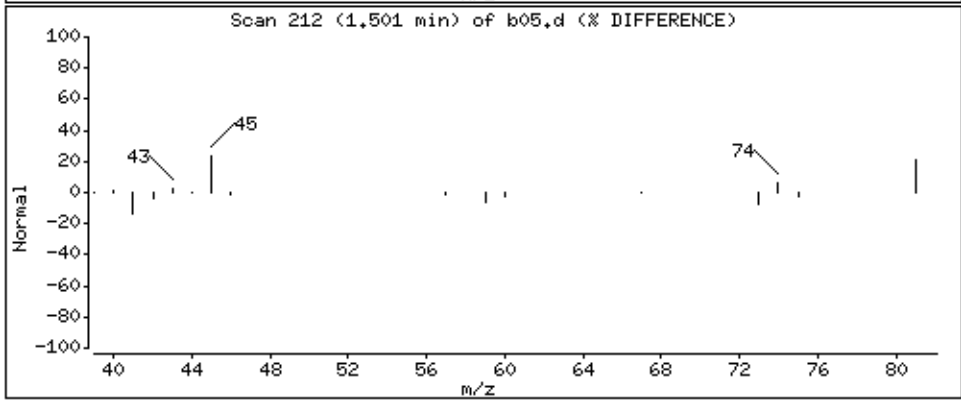
7 Diethyl ether

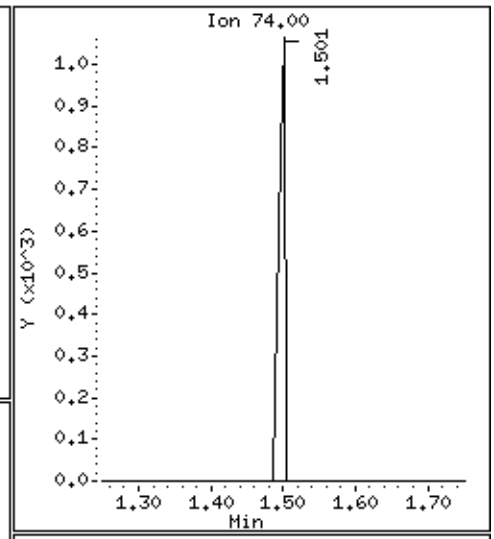
Concentration: 533 ppb

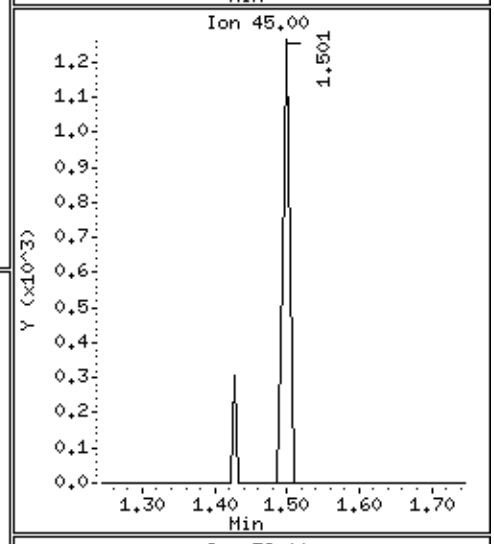


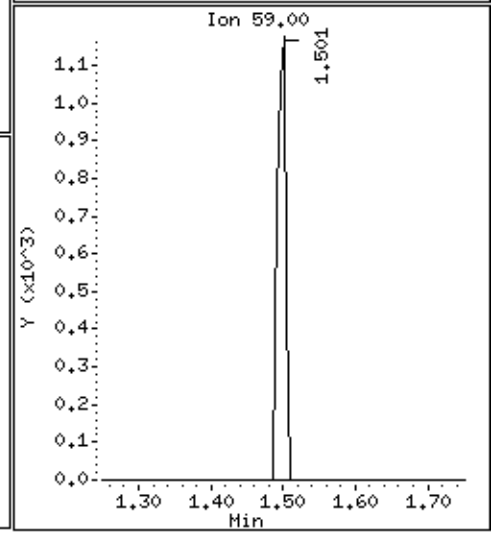












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

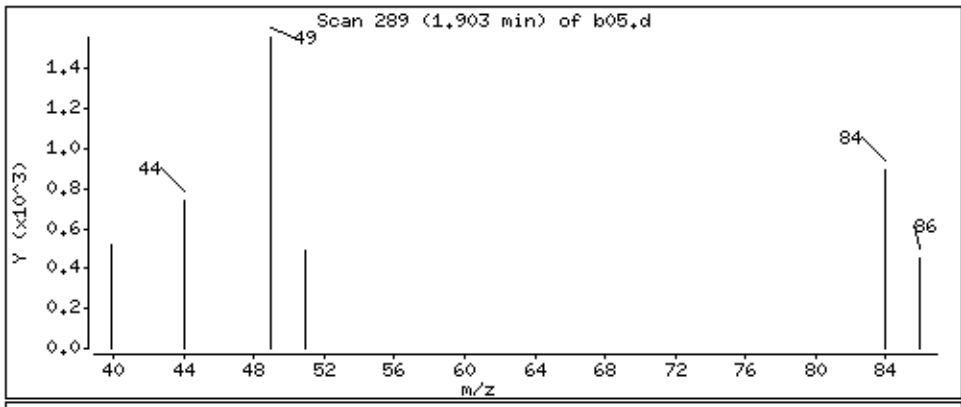
Operator: grm

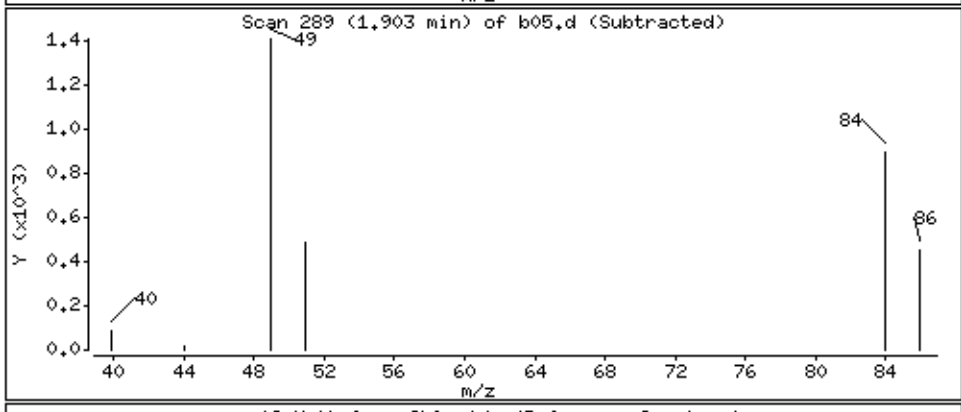
Column phase: DB-624

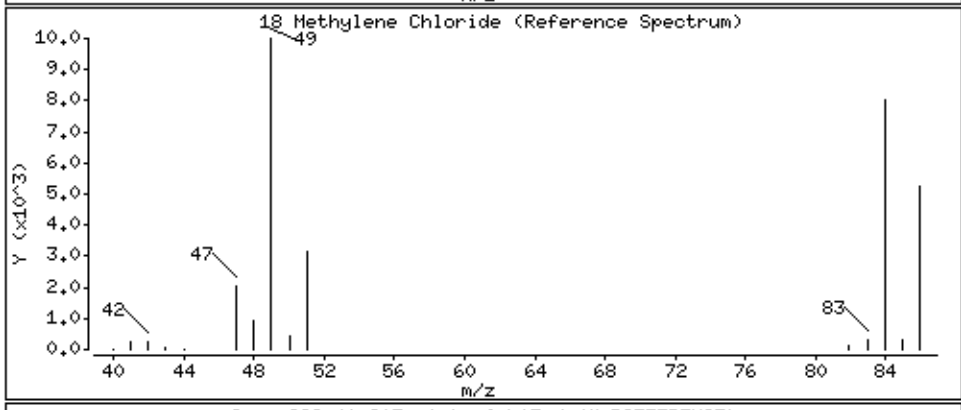
Column diameter: 0.18

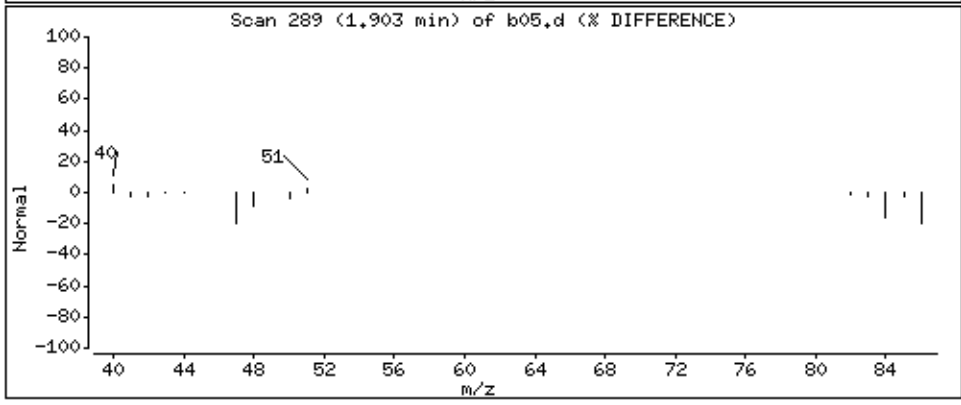
18 Methylene Chloride

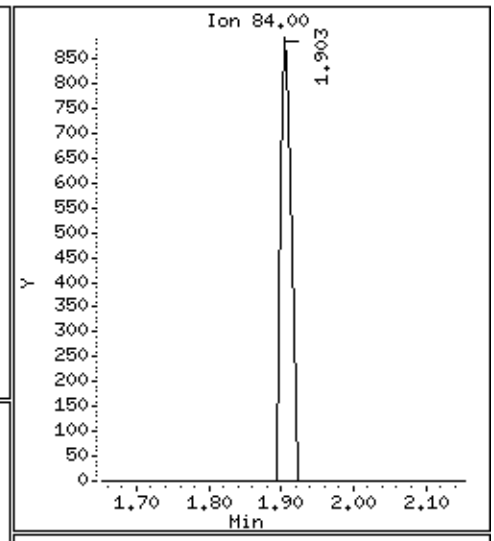
Concentration: 326 ppb

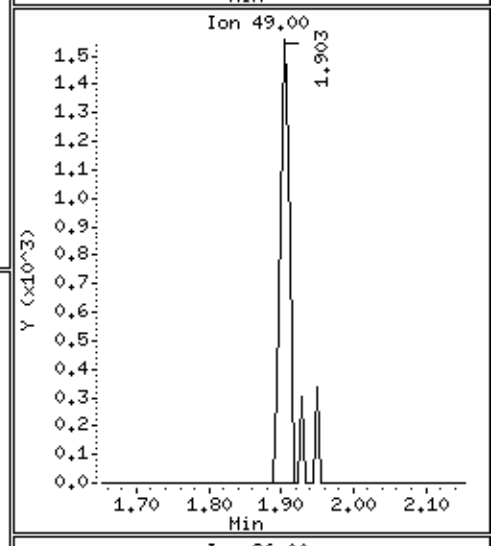


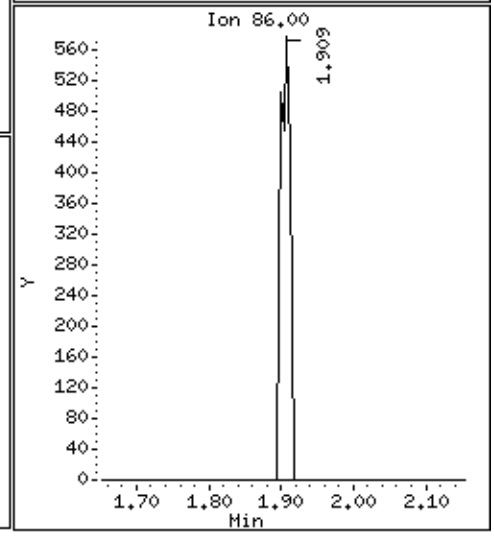












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

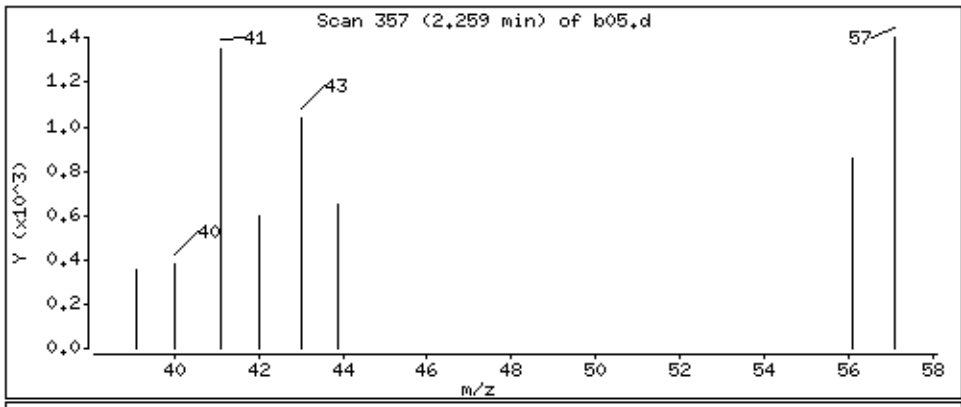
Operator: grm

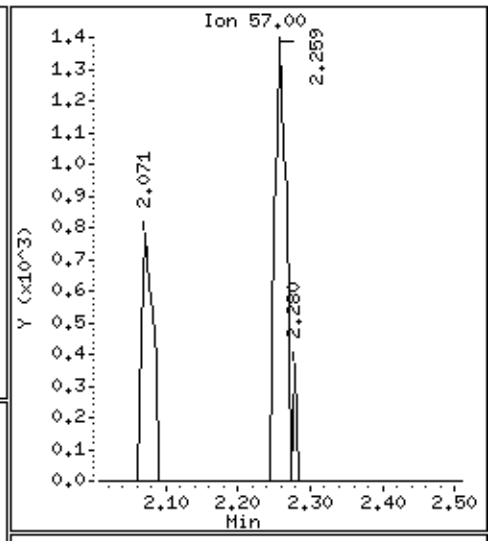
Column phase: DB-624

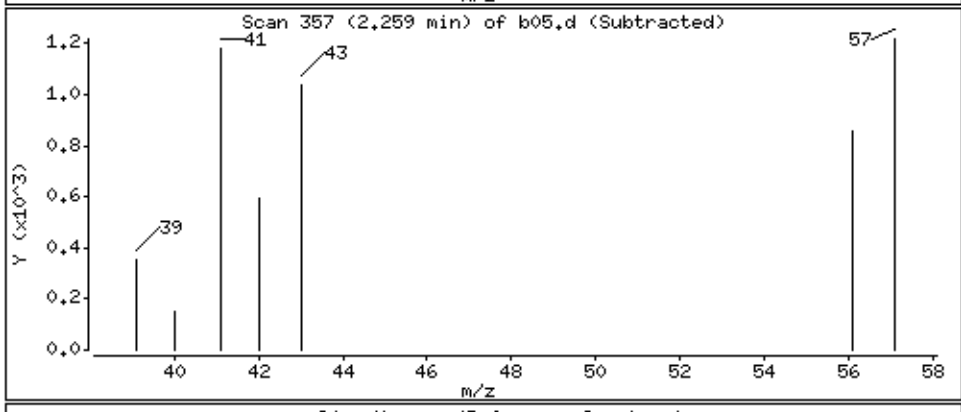
Column diameter: 0.18

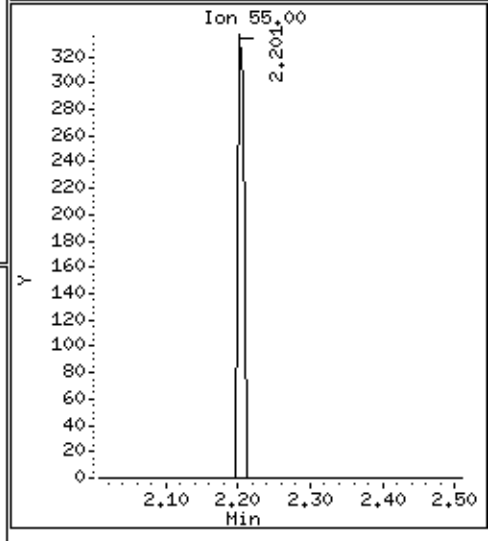
24 n-Hexane

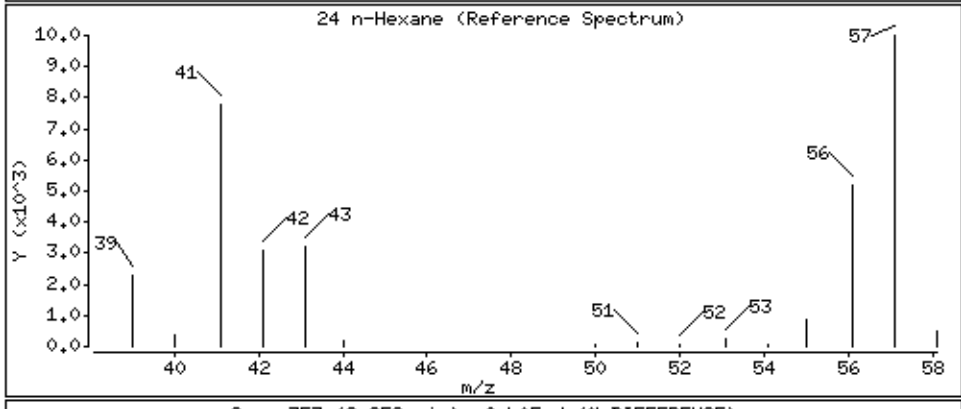
Concentration: 322 ppb

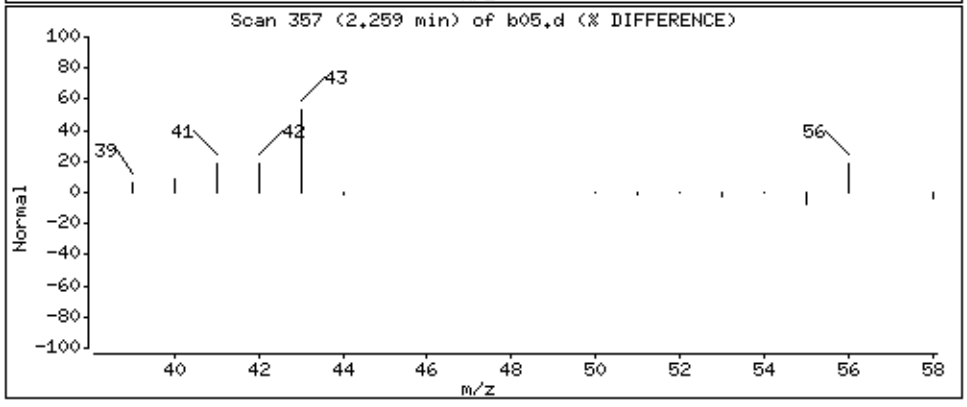












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

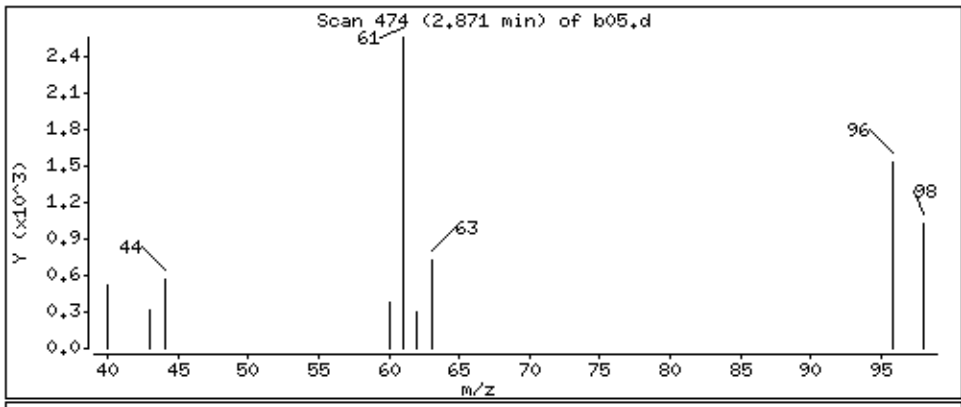
Operator: grm

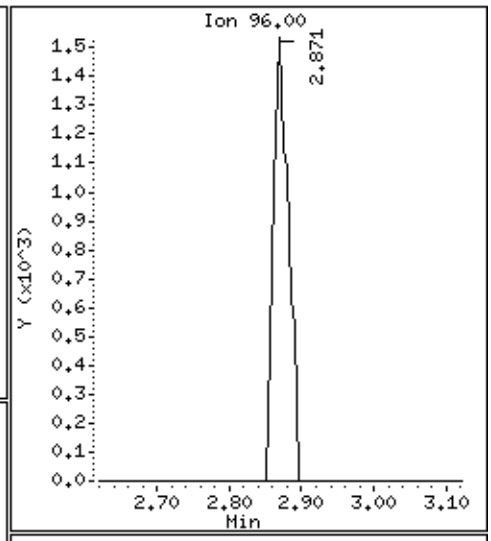
Column phase: DB-624

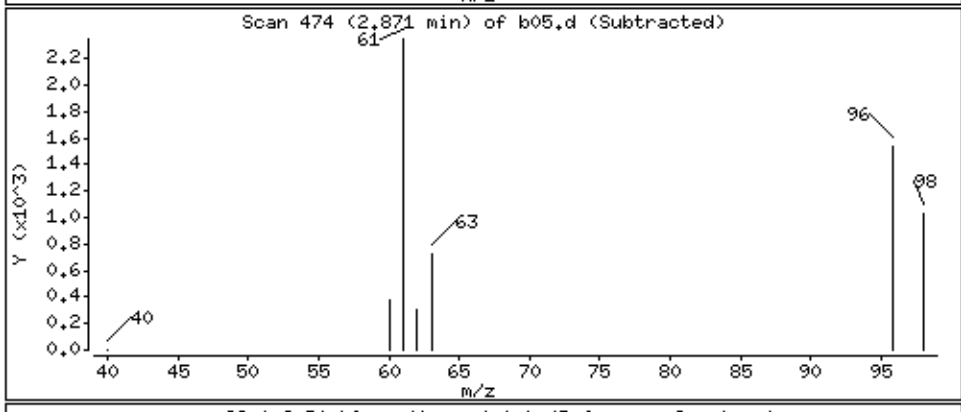
Column diameter: 0.18

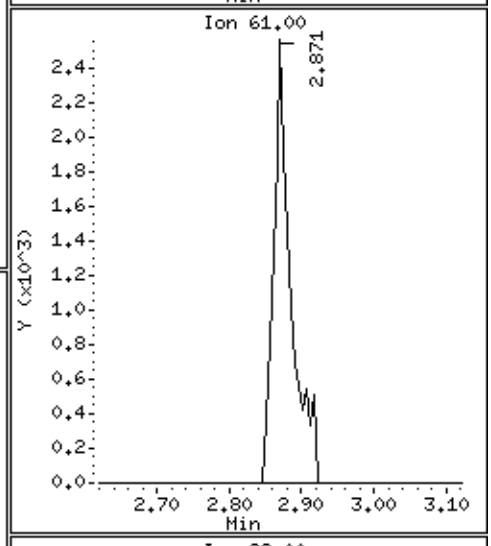
29 1,2-Dichloroethene (cis)

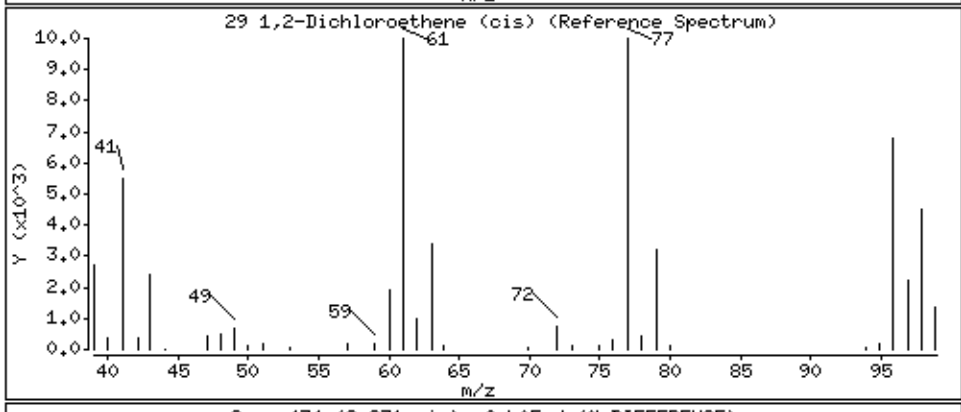
Concentration: 801 ppb

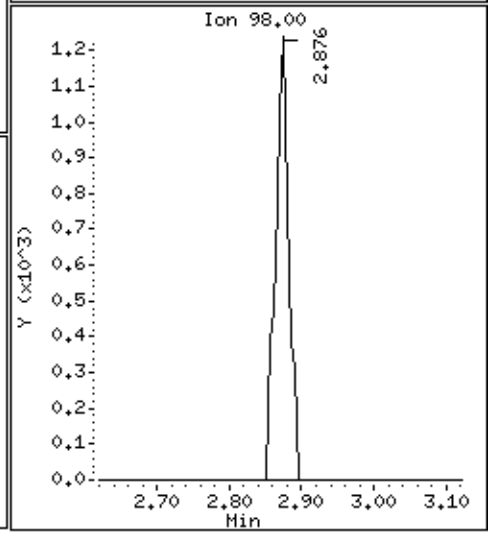


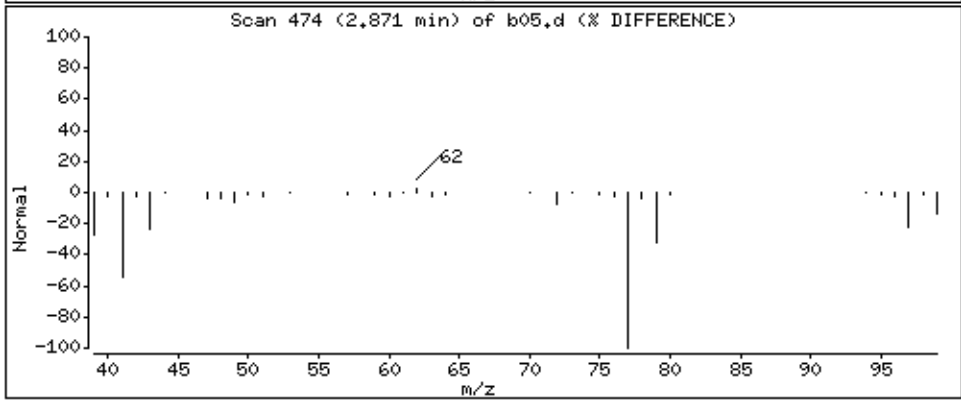












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

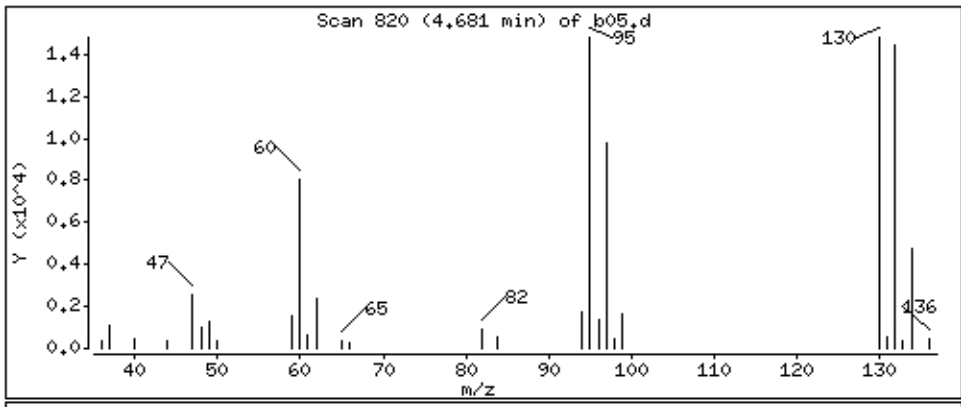
Operator: grm

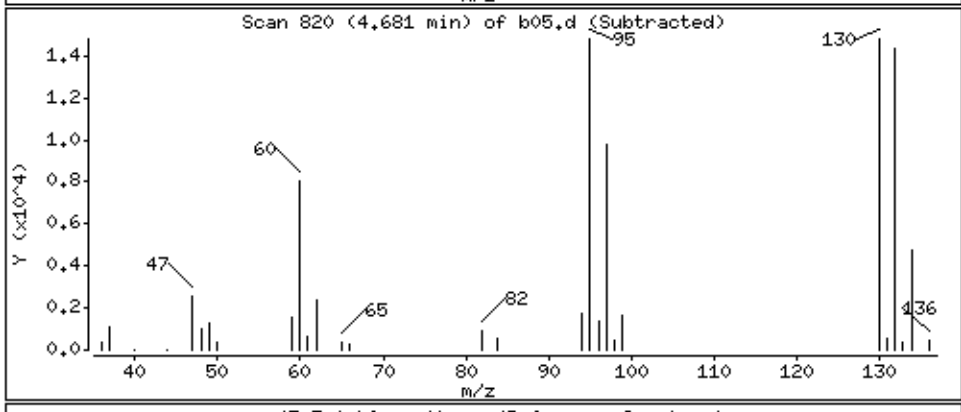
Column phase: DB-624

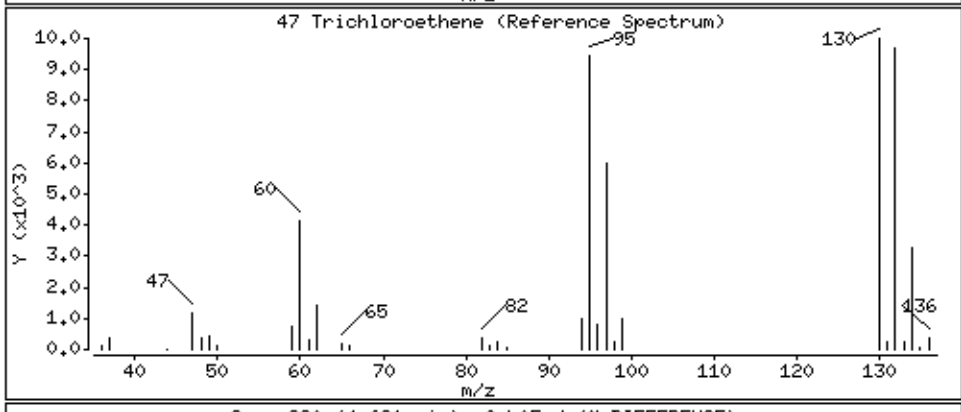
Column diameter: 0.18

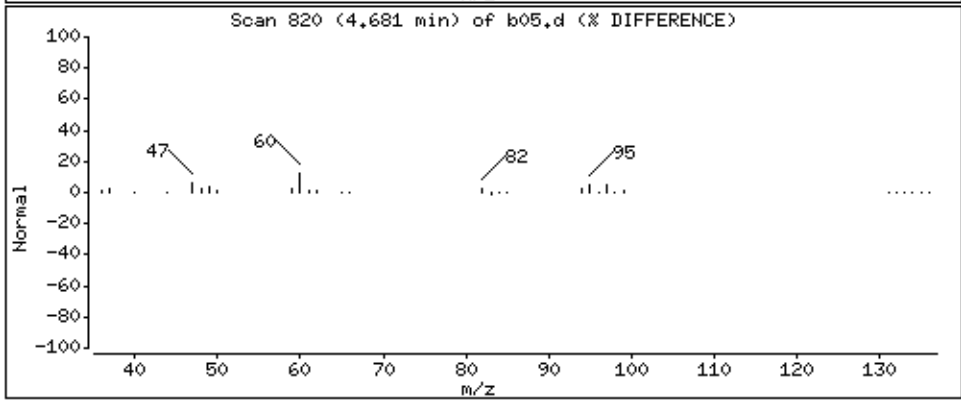
47 Trichloroethene

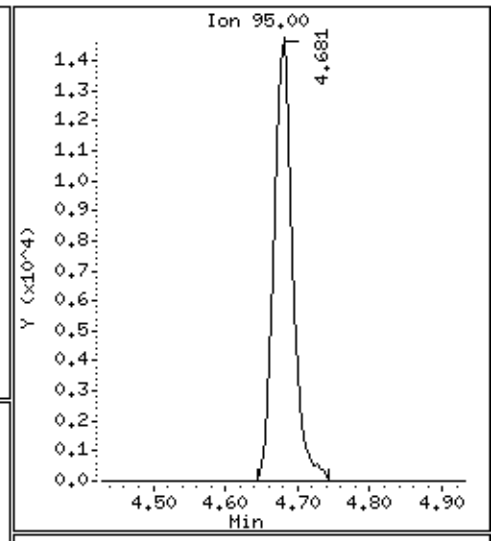
Concentration: 9610 ppb

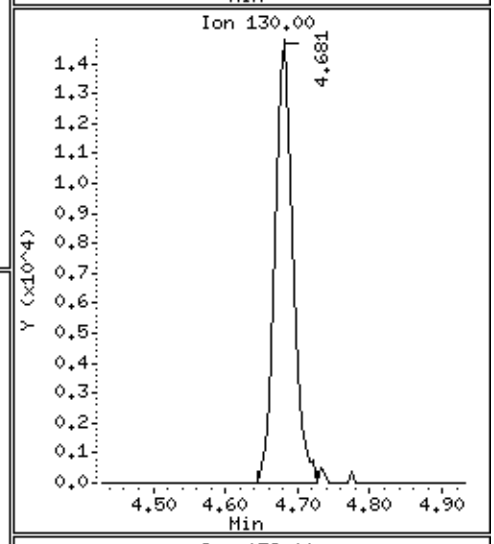


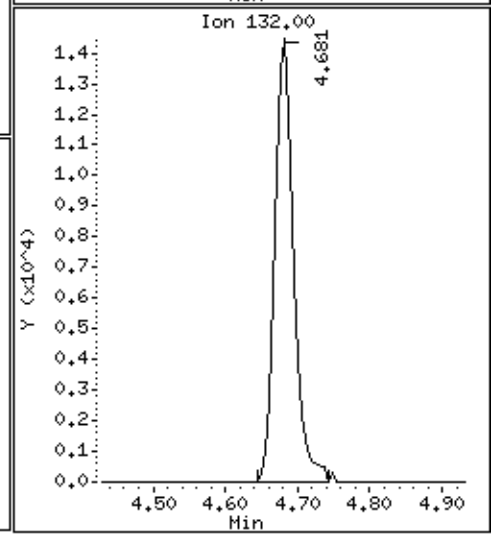












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b05.d

Date : 18-MAR-2016 15:28

Client ID: MW-622-S1(030916)

Instrument: 50mv1b.i

Sample Info: 50140212012x500

Purge Volume: 5.0

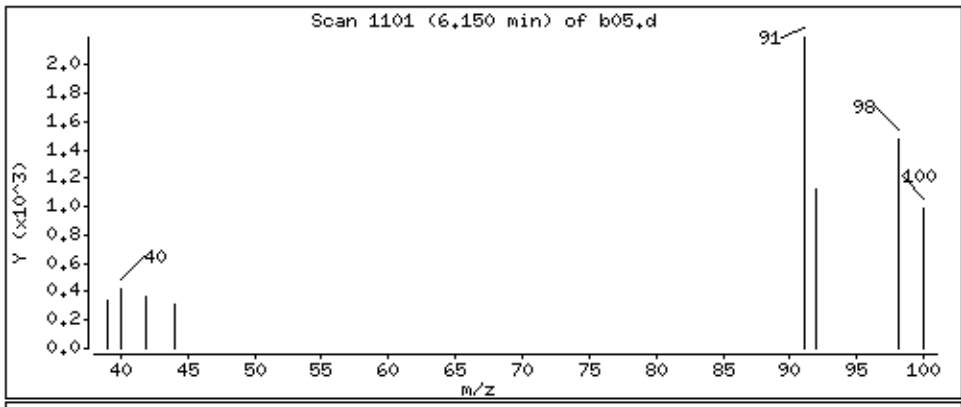
Operator: grm

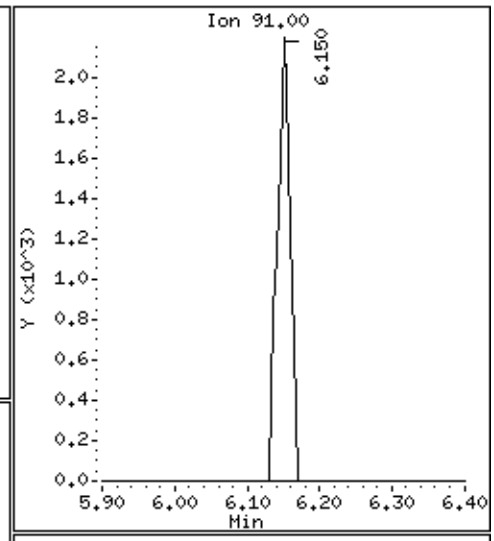
Column phase: DB-624

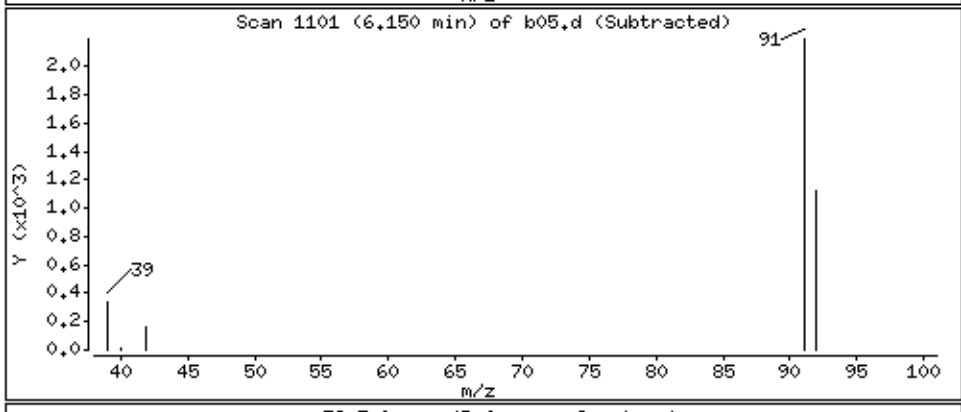
Column diameter: 0.18

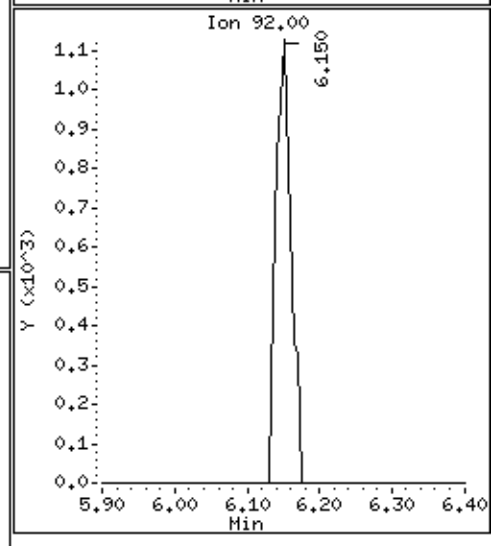
58 Toluene

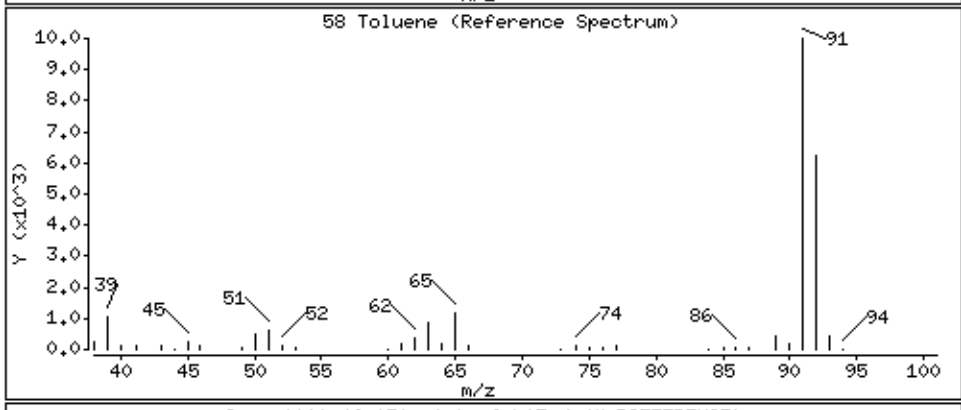
Concentration: 229 ppb

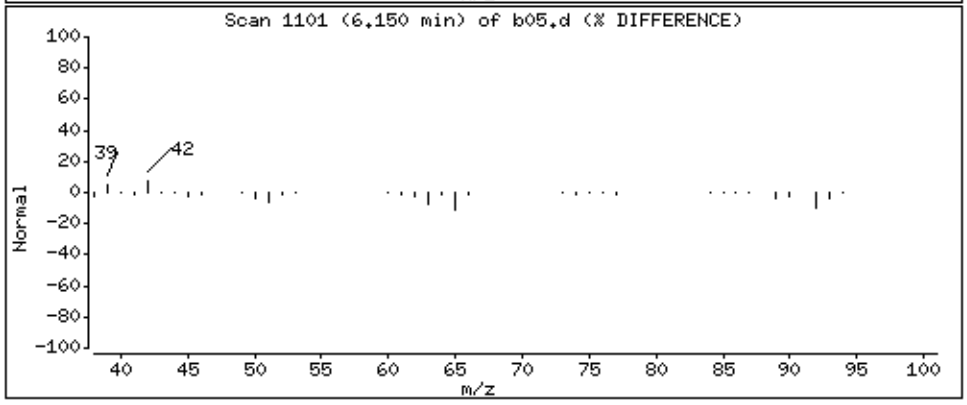












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b/b05.d
Injection Date: 18-MAR-2016 15:28
Instrument: 50mv1b.i
Lab Sample ID: 50140212012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D
CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D
CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.06633	0.05505	0.05383	0.05089	0.04827
Benzene	Averaged	0.92778	0.87453	0.85112	0.88748	0.85233	0.94491
Bromodichloromethane	Averaged		0.30464	0.28496	0.29755	0.28586	0.32274
Bromoform	Averaged		0.32434	0.31691	0.33085	0.34515	0.40282
Bromomethane	Averaged		0.11584	0.11302	0.10784	0.09887	0.10588
2-Butanone (MEK)	Averaged		0.08917	0.08455	0.08548	0.08033	0.08803
Carbon disulfide	Averaged		0.68439	0.72725	0.67986	0.62938	0.73015
Carbon tetrachloride	Averaged			0.25855	0.27557	0.26589	0.34644
Chlorobenzene	Averaged	0.91975	0.94035	0.85965	0.89364	0.87168	0.93248
Chloroethane	Averaged	0.21013	0.23189	0.21451	0.19386	0.18086	0.18585
Chloroform	Averaged	0.38326	0.39362	0.43391	0.43330	0.40997	0.44197
Chloromethane	Averaged		0.46342	0.43490	0.39144	0.33933	0.38227
Cyclohexane	Averaged	0.40808	0.43634	0.44449	0.41937	0.39529	0.49209
1,2-Dibromo-3-chloropropane	Averaged			0.09715	0.09792	0.08202	0.10577
Dibromochloromethane	Averaged		0.27807	0.22213	0.27685	0.26778	0.30614
1,2-Dibromoethane (EDB)	Averaged		0.22838	0.21055	0.23495	0.22783	0.25027
1,2-Dichlorobenzene	Averaged	1.48582	1.53705	1.35106	1.39190	1.34778	1.44049
1,3-Dichlorobenzene	Averaged	1.53689	1.61055	1.45038	1.48427	1.43986	1.53921
1,4-Dichlorobenzene	Averaged	1.77143	1.67929	1.45150	1.54352	1.44487	1.55804
Dichlorodifluoromethane	Averaged	0.29963	0.30870	0.33654	0.29889	0.29183	0.36517
1,1-Dichloroethane	Averaged		0.40845	0.43755	0.45376	0.41315	0.45667
1,2-Dichloroethane	Averaged		0.33290	0.32314	0.31037	0.29491	0.31656
1,1-Dichloroethene	Averaged	0.16817	0.19235	0.20291	0.19868	0.18170	0.21674
cis-1,2-Dichloroethene	Averaged	0.25330	0.21847	0.24734	0.24432	0.23338	0.25552
trans-1,2-Dichloroethene	Averaged	0.20833	0.19390	0.23196	0.22161	0.21220	0.24430
1,2-Dichloropropane	Averaged	0.23420	0.21470	0.22424	0.22155	0.23072	0.24796
cis-1,3-Dichloropropene	Averaged		0.38150	0.37517	0.43975	0.42443	0.48880
trans-1,3-Dichloropropene	Averaged		0.30499	0.29920	0.35613	0.34529	0.40361
Ethylbenzene	Averaged	0.51850	0.49439	0.45780	0.48045	0.46900	0.53009
2-Hexanone	Averaged		0.19907	0.16220	0.17503	0.16977	0.18665
Isopropylbenzene (Cumene)	Averaged	1.49121	1.52216	1.47582	1.55072	1.50360	1.76956
Methyl acetate	Averaged		0.15435	0.15106	0.14287	0.14732	0.14100
Methylcyclohexane	Averaged		0.33511	0.34009	0.32156	0.32111	0.41176
Methylene Chloride	Averaged			0.29725	0.23370	0.21400	0.21058
4-Methyl-2-pentanone (MIBK)	Averaged	0.23481	0.26480	0.22300	0.24155	0.24458	0.26470

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D

CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D

CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Methyl-tert-butyl ether	Averaged	0.51428	0.54126	0.55643	0.57248	0.55288	0.57706
Styrene	Averaged	0.87791	0.88989	0.91053	0.98589	0.95030	1.06993
1,1,2,2-Tetrachloroethane	Averaged		0.63899	0.57188	0.59023	0.56165	0.61337
Tetrachloroethene	Averaged	0.41904	0.36809	0.36267	0.37237	0.37562	0.43764
Toluene	Averaged	1.68688	1.48028	1.34901	1.33244	1.31644	1.44098
1,2,4-Trichlorobenzene	Averaged	1.06624	1.26738	1.11907	1.12189	1.03173	1.11347
1,1,1-Trichloroethane	Averaged	0.33077	0.33600	0.37497	0.36590	0.35515	0.41239
1,1,2-Trichloroethane	Averaged		0.17995	0.16950	0.19039	0.18937	0.21762
Trichloroethene	Averaged	0.25135	0.22850	0.24070	0.24126	0.23901	0.26091
Trichlorofluoromethane	Averaged	0.41380	0.43472	0.41892	0.38903	0.38229	0.45534
1,1,2-Trichlorotrifluoroethane	Averaged		0.23337	0.25191	0.24248	0.22892	0.27806
Vinyl chloride	Averaged	0.39831	0.35393	0.35280	0.34877	0.31519	0.38757
m&p-Xylene	Averaged	0.61714	0.60265	0.58467	0.60006	0.58186	0.64883
o-Xylene	Averaged	0.54922	0.56232	0.56853	0.59957	0.56929	0.63755
4-Bromofluorobenzene (S)	Averaged	0.44785	0.45611	0.45763	0.46460	0.46061	0.47274
Dibromofluoromethane (S)	Averaged	0.25199	0.24969	0.26228	0.25534	0.24683	0.24740
Toluene-d8 (S)	Averaged	1.29191	1.30119	1.30299	1.27941	1.29654	1.32670

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D
CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D
CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.04712	0.04474
Benzene	Averaged	0.97321	0.96664
Bromodichloromethane	Averaged	0.33839	0.33221
Bromoform	Averaged	0.44391	0.42386
Bromomethane	Averaged	0.11926	0.10098
2-Butanone (MEK)	Averaged	0.08684	0.08192
Carbon disulfide	Averaged	0.72480	0.73355
Carbon tetrachloride	Averaged	0.36570	0.36617
Chlorobenzene	Averaged	0.96073	0.95107
Chloroethane	Averaged	0.17751	0.17160
Chloroform	Averaged	0.45324	0.44893
Chloromethane	Averaged	0.43802	0.50683
Cyclohexane	Averaged	0.48700	0.48336
1,2-Dibromo-3-chloropropane	Averaged	0.08293	0.09137
Dibromochloromethane	Averaged	0.32357	0.32658
1,2-Dibromoethane (EDB)	Averaged	0.25248	0.25036
1,2-Dichlorobenzene	Averaged	1.36715	1.36646
1,3-Dichlorobenzene	Averaged	1.56794	1.51875
1,4-Dichlorobenzene	Averaged	1.56109	1.51166
Dichlorodifluoromethane	Averaged	0.35296	0.34546
1,1-Dichloroethane	Averaged	0.47956	0.47596
1,2-Dichloroethane	Averaged	0.32356	0.31688
1,1-Dichloroethene	Averaged	0.22173	0.21744
cis-1,2-Dichloroethene	Averaged	0.26288	0.26198
trans-1,2-Dichloroethene	Averaged	0.24156	0.24121
1,2-Dichloropropane	Averaged	0.25220	0.24730
cis-1,3-Dichloropropene	Averaged	0.51483	0.52348
trans-1,3-Dichloropropene	Averaged	0.44072	0.45096
Ethylbenzene	Averaged	0.55996	0.54468
2-Hexanone	Averaged	0.18327	0.17416
Isopropylbenzene (Cumene)	Averaged	1.56067	1.79020
Methyl acetate	Averaged	0.14755	0.14409
Methylcyclohexane	Averaged	0.42178	0.41196
Methylene Chloride	Averaged	0.20452	0.21924
4-Methyl-2-pentanone (MIBK)	Averaged	0.26433	0.24910

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D

CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D

CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Methyl-tert-butyl ether	Averaged	0.59530	0.59437
Styrene	Averaged	1.06734	1.12269
1,1,2,2-Tetrachloroethane	Averaged	0.60707	0.55802
Tetrachloroethene	Averaged	0.45164	0.43862
Toluene	Averaged	1.51062	1.46615
1,2,4-Trichlorobenzene	Averaged	0.89746	1.05052
1,1,1-Trichloroethane	Averaged	0.42172	0.42487
1,1,2-Trichloroethane	Averaged	0.22403	0.21895
Trichloroethene	Averaged	0.27345	0.26257
Trichlorofluoromethane	Averaged	0.43375	0.41376
1,1,2-Trichlorotrifluoroethane	Averaged	0.28353	0.28310
Vinyl chloride	Averaged	0.38761	0.38036
m&p-Xylene	Averaged	0.65179	0.68269
o-Xylene	Averaged	0.61792	0.65847
4-Bromofluorobenzene (S)	Averaged	0.43879	0.48708
Dibromofluoromethane (S)	Averaged	0.24762	0.25094
Toluene-d8 (S)	Averaged	1.33930	1.33422

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D
CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D
CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	13.71540			0.05232	
Benzene	Averaged	5.46400			0.90975	
Bromodichloromethane	Averaged	7.04608			0.30948	
Bromoform	Averaged	14.18255			0.36969	
Bromomethane	Averaged	6.97939			0.10881	
2-Butanone (MEK)	Averaged	3.75541			0.08519	
Carbon disulfide	Averaged	5.52748			0.70134	
Carbon tetrachloride	Averaged	16.47972			0.31305	
Chlorobenzene	Averaged	4.07332			0.91617	
Chloroethane	Averaged	10.75682			0.19578	
Chloroform	Averaged	6.13796			0.42478	
Chloromethane	Averaged	13.21226			0.42232	
Cyclohexane	Averaged	8.48557			0.44575	
1,2-Dibromo-3-chloropropane	Averaged	9.97574			0.09286	
Dibromochloromethane	Averaged	12.78953			0.28587	
1,2-Dibromoethane (EDB)	Averaged	6.58499			0.23640	
1,2-Dichlorobenzene	Averaged	4.95507			1.41096	
1,3-Dichlorobenzene	Averaged	3.83032			1.51848	
1,4-Dichlorobenzene	Averaged	7.09649			1.56518	
Dichlorodifluoromethane	Averaged	8.73494			0.32490	
1,1-Dichloroethane	Averaged	6.30697			0.44644	
1,2-Dichloroethane	Averaged	3.78996			0.31690	
1,1-Dichloroethene	Averaged	9.40065			0.19997	
cis-1,2-Dichloroethene	Averaged	6.10877			0.24715	
trans-1,2-Dichloroethene	Averaged	8.21018			0.22438	
1,2-Dichloropropane	Averaged	5.90185			0.23411	
cis-1,3-Dichloropropene	Averaged	13.51272			0.44971	
trans-1,3-Dichloropropene	Averaged	16.55740			0.37156	
Ethylbenzene	Averaged	7.31310			0.50686	
2-Hexanone	Averaged	6.79994			0.17859	
Isopropylbenzene (Cumene)	Averaged	7.89005			1.58299	
Methyl acetate	Averaged	3.19596			0.14689	
Methylcyclohexane	Averaged	12.67838			0.36620	
Methylene Chloride	Averaged	14.98554			0.22988	
4-Methyl-2-pentanone (MIBK)	Averaged	6.23784			0.24836	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1A GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 17:44 21:49

LAB FILE ID

CAL1 = A031516CAL.B\A01CAL.D CAL2 = A031516CAL.B\A02CAL.D CAL3 = A031516CAL.B\A03CAL.D

CAL4 = A031516CAL.B\A04CAL.D CAL5 = A031516CAL.B\A05CAL.D CAL6 = A031516CAL.B\A06CAL.D

CAL7 = A031516CAL.B\A07CAL.D CAL8 = A031516CAL.B\A08CAL.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Methyl-tert-butyl ether	Averaged	4.89086			0.56301	
Styrene	Averaged	9.42245			0.98431	
1,1,2,2-Tetrachloroethane	Averaged	5.05874			0.59160	
Tetrachloroethene	Averaged	9.19614			0.40321	
Toluene	Averaged	8.37275			1.44785	
1,2,4-Trichlorobenzene	Averaged	9.62484			1.08347	
1,1,1-Trichloroethane	Averaged	9.98770			0.37772	
1,1,2-Trichloroethane	Averaged	10.82219			0.19854	
Trichloroethene	Averaged	6.00453			0.24972	
Trichlorofluoromethane	Averaged	5.77443			0.41770	
1,1,2-Trichlorotrifluoroethane	Averaged	9.26540			0.25734	
Vinyl chloride	Averaged	7.58332			0.36557	
m&p-Xylene	Averaged	5.82615			0.62121	
o-Xylene	Averaged	6.63106			0.59536	
4-Bromofluorobenzene (S)	Averaged	3.21100			0.46068	
Dibromofluoromethane (S)	Averaged	2.06272			0.25151	
Toluene-d8 (S)	Averaged	1.65549			1.30903	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D
CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D
CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.07465	0.06046	0.06218	0.05495	0.05520
Benzene	Averaged	0.97176	0.97848	0.97308	0.99183	0.98561	1.09813
Bromodichloromethane	Averaged		0.32479	0.32819	0.34776	0.32840	0.37085
Bromoform	Averaged		0.40539	0.32598	0.37125	0.37037	0.43783
Bromomethane	Averaged		0.22313	0.15327	0.15764	0.17245	0.19400
2-Butanone (MEK)	Averaged		0.08305	0.08040	0.08185	0.10538	0.09891
Carbon disulfide	Averaged		0.94928	0.80203	0.82214	0.76831	0.84235
Carbon tetrachloride	Averaged		0.30700	0.33964	0.34866	0.34536	0.41540
Chlorobenzene	Averaged	1.02459	0.98197	1.01687	0.99313	0.97829	1.07834
Chloroethane	Averaged	0.23689	0.24448	0.23972	0.23907	0.23761	0.25365
Chloroform	Averaged	0.50730	0.51032	0.47450	0.48582	0.46995	0.50685
Chloromethane	Averaged		0.71775	0.58082	0.56701	0.53506	0.55749
Cyclohexane	Averaged	0.47398	0.53743	0.48724	0.49178	0.47208	0.55962
1,2-Dibromo-3-chloropropane	Averaged			0.09273	0.09681	0.09996	0.10660
Dibromochloromethane	Averaged		0.27448	0.28069	0.30473	0.30697	0.35531
1,2-Dibromoethane (EDB)	Averaged		0.22936	0.25073	0.24917	0.25140	0.29214
1,2-Dichlorobenzene	Averaged	1.69405	1.76034	1.57399	1.56294	1.50903	1.62352
1,3-Dichlorobenzene	Averaged	1.68975	1.87344	1.70135	1.74584	1.64087	1.70498
1,4-Dichlorobenzene	Averaged	1.71602	1.95861	1.68103	1.74196	1.64635	1.72433
Dichlorodifluoromethane	Averaged	0.38010	0.40172	0.38941	0.38058	0.37096	0.44766
1,1-Dichloroethane	Averaged		0.50293	0.46576	0.51592	0.49640	0.54502
1,2-Dichloroethane	Averaged		0.37225	0.33383	0.34320	0.33959	0.36052
1,1-Dichloroethene	Averaged	0.23099	0.21464	0.21665	0.22211	0.21987	0.25245
cis-1,2-Dichloroethene	Averaged	0.23918	0.26748	0.26826	0.26811	0.27689	0.29561
trans-1,2-Dichloroethene	Averaged	0.26203	0.26611	0.26384	0.25709	0.24959	0.27806
1,2-Dichloropropane	Averaged	0.26622	0.25626	0.24442	0.25517	0.24975	0.28367
cis-1,3-Dichloropropene	Averaged		0.46794	0.47436	0.47708	0.51807	0.58411
trans-1,3-Dichloropropene	Averaged		0.36897	0.36708	0.39172	0.40379	0.48886
Ethylbenzene	Averaged	0.50741	0.58256	0.53523	0.56609	0.53536	0.60595
2-Hexanone	Averaged		0.19086	0.17494	0.17416	0.17015	0.19004
Isopropylbenzene (Cumene)	Averaged	1.74097	1.85878	1.82888	1.80404	1.80012	2.00903
Methyl acetate	Averaged		0.18854	0.15160	0.16419	0.17303	0.16174
Methylcyclohexane	Averaged		0.36020	0.36167	0.36973	0.37403	0.47198
Methylene Chloride	Averaged			0.38147	0.27837	0.26682	0.26640
4-Methyl-2-pentanone (MIBK)	Averaged	0.23168	0.28227	0.23075	0.23968	0.23641	0.28460

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D

CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D

CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Methyl-tert-butyl ether	Averaged	0.62537	0.60021	0.61444	0.62965	0.61023	0.66707
Styrene	Averaged	1.05591	1.09598	1.10591	1.13294	1.14184	1.19148
1,1,2,2-Tetrachloroethane	Averaged		0.69405	0.57874	0.61111	0.56991	0.62720
Tetrachloroethene	Averaged	0.35782	0.40996	0.39467	0.41566	0.41785	0.49380
Toluene	Averaged	1.73896	1.62239	1.48519	1.51065	1.48950	1.64854
1,2,4-Trichlorobenzene	Averaged	1.45668	1.49053	1.27627	1.31332	1.18984	1.27505
1,1,1-Trichloroethane	Averaged	0.43742	0.42773	0.41471	0.42513	0.41489	0.48461
1,1,2-Trichloroethane	Averaged		0.18339	0.21388	0.22022	0.21744	0.23158
Trichloroethene	Averaged	0.22090	0.26237	0.26095	0.27938	0.26222	0.30261
Trichlorofluoromethane	Averaged	0.43742	0.49289	0.45915	0.47308	0.45628	0.52700
1,1,2-Trichlorotrifluoroethane	Averaged	0.23023	0.28975	0.27950	0.28836	0.27143	0.33354
Vinyl chloride	Averaged	0.45665	0.49280	0.41450	0.44413	0.44113	0.49358
m&p-Xylene	Averaged	0.68055	0.70306	0.69311	0.69732	0.68267	0.74372
o-Xylene	Averaged	0.68932	0.64769	0.68404	0.70369	0.66969	0.72456
4-Bromofluorobenzene (S)	Averaged	0.46652	0.46954	0.48581	0.46812	0.46324	0.46341
Dibromofluoromethane (S)	Averaged	0.27282	0.27319	0.26166	0.26823	0.25811	0.25040
Toluene-d8 (S)	Averaged	1.29056	1.27002	1.29315	1.30470	1.30699	1.31259

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D
CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D
CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.05589	0.05479
Benzene	Averaged	1.06404	1.06500
Bromodichloromethane	Averaged	0.35022	0.37497
Bromoform	Averaged	0.42996	0.47601
Bromomethane	Averaged	0.18236	
2-Butanone (MEK)	Averaged	0.09538	0.09369
Carbon disulfide	Averaged	0.80806	0.79352
Carbon tetrachloride	Averaged	0.40710	0.41245
Chlorobenzene	Averaged	1.05359	1.07478
Chloroethane	Averaged	0.23449	0.22013
Chloroform	Averaged	0.47998	0.49893
Chloromethane	Averaged	0.58249	0.63991
Cyclohexane	Averaged	0.53870	0.53081
1,2-Dibromo-3-chloropropane	Averaged	0.06774	0.11238
Dibromochloromethane	Averaged	0.36140	0.36458
1,2-Dibromoethane (EDB)	Averaged	0.29014	0.28875
1,2-Dichlorobenzene	Averaged	0.82184	1.55879
1,3-Dichlorobenzene	Averaged	1.70127	1.71004
1,4-Dichlorobenzene	Averaged	1.63961	1.70780
Dichlorodifluoromethane	Averaged	0.41525	0.40956
1,1-Dichloroethane	Averaged	0.52840	0.52722
1,2-Dichloroethane	Averaged	0.35857	0.34603
1,1-Dichloroethene	Averaged	0.25011	0.24473
cis-1,2-Dichloroethene	Averaged	0.28952	0.29373
trans-1,2-Dichloroethene	Averaged	0.26740	0.26740
1,2-Dichloropropane	Averaged	0.26986	0.28030
cis-1,3-Dichloropropene	Averaged	0.58733	0.58367
trans-1,3-Dichloropropene	Averaged	0.50586	0.51318
Ethylbenzene	Averaged	0.56962	0.59881
2-Hexanone	Averaged	0.19849	0.18887
Isopropylbenzene (Cumene)	Averaged	2.50291	1.99806
Methyl acetate	Averaged	0.16097	0.16131
Methylcyclohexane	Averaged	0.43690	0.45787
Methylene Chloride	Averaged	0.25678	0.26306
4-Methyl-2-pentanone (MIBK)	Averaged	0.28891	0.27404

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D

CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D

CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Methyl-tert-butyl ether	Averaged	0.66170	0.67685
Styrene	Averaged	1.20476	1.21109
1,1,2,2-Tetrachloroethane	Averaged	0.48099	0.64207
Tetrachloroethene	Averaged	0.49521	0.48217
Toluene	Averaged	1.63353	1.61020
1,2,4-Trichlorobenzene	Averaged	1.17332	1.25636
1,1,1-Trichloroethane	Averaged	0.46941	0.47530
1,1,2-Trichloroethane	Averaged	0.24306	0.24272
Trichloroethene	Averaged	0.25634	0.29305
Trichlorofluoromethane	Averaged	0.50602	0.48773
1,1,2-Trichlorotrifluoroethane	Averaged	0.31797	0.30721
Vinyl chloride	Averaged	0.46122	0.46484
m&p-Xylene	Averaged	0.71556	0.71868
o-Xylene	Averaged	0.69583	0.70079
4-Bromofluorobenzene (S)	Averaged	0.35537	0.45911
Dibromofluoromethane (S)	Averaged	0.24318	0.24955
Toluene-d8 (S)	Averaged	1.31509	1.29307

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D

CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D

CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	12.06643			0.05973	
Benzene	Averaged	5.01424			1.01599	
Bromodichloromethane	Averaged	5.95414			0.34645	
Bromoform	Averaged	12.54058			0.40240	
Bromomethane	Averaged	14.30306			0.18048	
2-Butanone (MEK)	Averaged	10.53775			0.09124	
Carbon disulfide	Averaged	7.11635			0.82653	
Carbon tetrachloride	Averaged	11.72337			0.36794	
Chlorobenzene	Averaged	3.91124			1.02519	
Chloroethane	Averaged	3.96183			0.23826	
Chloroform	Averaged	3.27310			0.49171	
Chloromethane	Averaged	10.41011			0.59722	
Cyclohexane	Averaged	6.62603			0.51145	
1,2-Dibromo-3-chloropropane	Averaged	16.17340			0.09604	
Dibromochloromethane	Averaged	12.03200			0.32117	
1,2-Dibromoethane (EDB)	Averaged	9.56401			0.26453	
1,2-Dichlorobenzene	Averaged	19.22331			1.51306	
1,3-Dichlorobenzene	Averaged	3.95361			1.72094	
1,4-Dichlorobenzene	Averaged	5.81602			1.72696	
Dichlorodifluoromethane	Averaged	6.22344			0.39941	
1,1-Dichloroethane	Averaged	5.08956			0.51166	
1,2-Dichloroethane	Averaged	3.87753			0.35057	
1,1-Dichloroethene	Averaged	6.71125			0.23144	
cis-1,2-Dichloroethene	Averaged	6.76811			0.27485	
trans-1,2-Dichloroethene	Averaged	3.15158			0.26394	
1,2-Dichloropropane	Averaged	5.39451			0.26321	
cis-1,3-Dichloropropene	Averaged	10.65146			0.52751	
trans-1,3-Dichloropropene	Averaged	15.11678			0.43421	
Ethylbenzene	Averaged	6.07858			0.56263	
2-Hexanone	Averaged	5.82121			0.18393	
Isopropylbenzene (Cumene)	Averaged	12.63093			1.94285	
Methyl acetate	Averaged	7.10417			0.16591	
Methylcyclohexane	Averaged	12.10102			0.40462	
Methylene Chloride	Averaged	16.65511			0.28548	
4-Methyl-2-pentanone (MIBK)	Averaged	10.06871			0.25854	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV1B GC Column: Col 1 SDG No.: 50140212

Calibration Date(s): 03/15/2016 03/15/2016 Calibration Time(s): 18:01 22:06

LAB FILE ID

CAL1 = B031516CAL.B\B01CAL.D CAL2 = B031516CAL.B\B02CAL.D CAL3 = B031516CAL.B\B03CAL.D

CAL4 = B031516CAL.B\B04CAL.D CAL5 = B031516CAL.B\B05CAL.D CAL6 = B031516CAL.B\B06CAL.D

CAL7 = B031516CAL.B\B07CAL.D CAL8 = B031516CAL.B\B08CAL.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Methyl-tert-butyl ether	Averaged	4.55054			0.63569	
Styrene	Averaged	4.91504			1.14249	
1,1,2,2-Tetrachloroethane	Averaged	11.16875			0.60058	
Tetrachloroethene	Averaged	11.75431			0.43339	
Toluene	Averaged	5.63220			1.59237	
1,2,4-Trichlorobenzene	Averaged	8.80070			1.30392	
1,1,1-Trichloroethane	Averaged	6.39951			0.44365	
1,1,2-Trichloroethane	Averaged	9.28686			0.22176	
Trichloroethene	Averaged	9.40267			0.26723	
Trichlorofluoromethane	Averaged	6.08488			0.47995	
1,1,2-Trichlorotrifluoroethane	Averaged	10.91714			0.28975	
Vinyl chloride	Averaged	5.77071			0.45861	
m&p-Xylene	Averaged	2.98528			0.70433	
o-Xylene	Averaged	3.36529			0.68945	
4-Bromofluorobenzene (S)	Averaged	8.94413			0.45389	
Dibromofluoromethane (S)	Averaged	4.35639			0.25964	
Toluene-d8 (S)	Averaged	1.13364			1.29827	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a01cal.d
Lab Smp Id: 8260-CAL1,117040:0 Client Smp ID: 8260-CAL1,117040:0
Inj Date : 15-MAR-2016 17:44
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal1,117040:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.218)	1992	1.00000	0.922(M)	WP
2	Chloromethane	50	1.000	0.995	(0.237)	3993	1.00000	1.42	
3	Vinyl Chloride	62	1.047	1.042	(0.249)	2648	1.00000	1.09	
4	Bromomethane	94	1.193	1.189	(0.283)	1698	1.00000	2.35(Q)	
5	Chloroethane	64	1.240	1.236	(0.295)	1397	1.00000	1.07	
6	Trichlorofluoromethane	101	1.355	1.351	(0.322)	2751	1.00000	0.991	
7	Diethyl ether	74	1.481	1.476	(0.352)	748	1.00000	1.06	
8	1,2-dichlorotrifluoroethane	67	1.496	1.497	(0.355)	1667	1.00000	0.852	
9	Acrolein	56	1.554	1.555	(0.369)	3163	20.0000	20.3	
10	1,1,2trichlorotrifluoroethane	101	1.606	1.602	(0.382)	1054	1.00000	0.616	
11	1,1-Dichloroethene	96	1.611	1.607	(0.383)	1118	1.00000	0.841	
12	Acetone	43	1.622	1.623	(0.385)	2618	5.00000	7.53	
14	Carbon Disulfide	76	1.747	1.748	(0.415)	5298	1.00000	1.14	
16	Acetonitrile	39	1.810	1.806	(0.430)	3786	1.00000	0.984(M)	WP
17	allyl chloride	41	1.810	1.806	(0.430)	5007	2.00000	2.02	
18	Methylene Chloride	84	1.889	1.884	(0.449)	5239	1.00000	3.43	
19	tert-Butyl Alcohol	59	1.925	1.926	(0.457)	285	2.00000	2.10(TQM)	WP
20	Acrylonitrile	53	2.035	2.026	(0.483)	1617	4.00000	4.03	
21	Methyl-tert-butyl ether	73	2.051	2.046	(0.487)	3419	1.00000	0.913	
22	1,2-Dichloroethene (trans)	96	2.061	2.057	(0.490)	1385	1.00000	0.928	
24	Vinyl Acetate	43	2.359	2.355	(0.560)	9797	4.00000	3.71	
29	1,2-Dichloroethene (cis)	96	2.856	2.852	(0.678)	1684	1.00000	1.02(Q)	
33	Bromochloromethane	49	3.086	3.087	(0.733)	1137	1.00000	0.964	

			QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)	REVIEW C
	35	Chloroform	83	3.201	3.202	(0.760)	2548	1.00000	0.902	
	37	1,1,1-Trichloroethane	97	3.379	3.375	(0.803)	2199	1.00000	0.876	
$	38	Dibromofluoromethane (S)	113	3.379	3.380	(0.803)	83763	50.0000	50.1	
	39	Cyclohexane	56	3.458	3.453	(0.821)	2713	1.00000	0.915	
	41	1,1-Dichloropropene	75	3.568	3.568	(0.847)	1354	1.00000	0.622(M)	WP
	42	Benzene	78	3.803	3.814	(0.903)	6168	1.00000	1.02	
	45	2,2,4-Trimethylpentane	57	3.986	3.976	(0.947)	5498	1.00000	0.835	
*	46	Fluorobenzene (IS)	96	4.211	4.217	(1.000)	332408	50.0000		
	47	Trichloroethene	95	4.661	4.667	(1.107)	1671	1.00000	1.01	
	48	Methylcyclohexane	55	4.927	4.928	(1.170)	1995	1.00000	0.819(TM)	WP
	49	1,2-Dichloropropane	63	4.974	4.975	(1.181)	1557	1.00000	1.00	
	50	Dibromomethane	93	5.074	5.075	(1.205)	560	1.00000	0.690	
	55	cis-1,3-Dichloropropene	75	5.796	5.797	(0.785)	2059	1.00000	0.926	
	56	4-Methyl-2-Pentanone	43	5.973	5.969	(0.809)	5808	5.00000	4.73	
$	57	Toluene-d8	98	6.068	6.068	(0.822)	319554	50.0000	49.3	
	58	Toluene	91	6.141	6.142	(0.831)	8345	1.00000	1.16	
	59	trans-1,3-Dichloropropene	75	6.434	6.429	(0.871)	1294	1.00000	0.704	
	61	1,1,2-Trichloroethane	83	6.611	6.612	(0.895)	763	1.00000	0.777(Q)	
	62	Tetrachloroethene	166	6.659	6.659	(0.902)	2073	1.00000	1.04	
	63	1,3-Dichloropropane	76	6.753	6.754	(0.914)	1731	1.00000	0.895	
	65	Dibromochloromethane	129	6.936	6.937	(0.939)	967	1.00000	0.684	
	66	1,2-Dibromoethane	107	7.025	7.020	(0.951)	899	1.00000	0.769	
*	67	Chlorobenzene-D5 (IS)	117	7.386	7.392	(1.000)	247350	50.0000		
	68	Chlorobenzene	112	7.406	7.413	(1.003)	4550	1.00000	1.00	
	69	1,1,1,2-Tetrachloroethane	131	7.485	7.491	(1.013)	1237	1.00000	0.841	
	70	Ethylbenzene	106	7.495	7.491	(1.015)	2565	1.00000	1.02	
	71	m&p-Xylene	106	7.589	7.590	(1.028)	6106	2.00000	1.99	
	72	o-Xylene	106	7.846	7.852	(1.062)	2717	1.00000	0.922	
	73	Styrene	104	7.867	7.868	(1.065)	4343	1.00000	0.892	
	75	Isopropylbenzene	105	8.092	8.093	(1.096)	7377	1.00000	0.942	
$	76	4-Bromofluorobenzene	95	8.207	8.208	(1.111)	110776	50.0000	48.6	
	77	Bromobenzene	77	8.285	8.286	(1.122)	2697	1.00000	0.972	
	80	trans-1,4-Dichloro-2-butene	53	8.322	8.317	(1.127)	246	1.00000	0.600(QM)	WP
	81	1,2,3-Trichloropropane	110	8.327	8.328	(0.938)	285	1.00000	0.652(QM)	WP
	82	n-Propylbenzene	91	8.348	8.354	(0.940)	9050	1.00000	0.971	
	83	2-Chlorotoluene	91	8.405	8.401	(0.946)	5291	1.00000	0.988	
	84	1,3,5-Trimethylbenzene	105	8.458	8.464	(0.952)	6106	1.00000	0.943	
	85	4-Chlorotoluene	126	8.479	8.480	(0.955)	1956	1.00000	0.992	
	86	tert-Butylbenzene	119	8.641	8.642	(0.973)	6089	1.00000	0.995	
	87	1,2,4-Trimethylbenzene	105	8.672	8.678	(0.976)	7033	1.00000	1.05	
	88	sec-Butylbenzene	105	8.766	8.767	(0.987)	7866	1.00000	0.924	
	89	1,3-Dichlorobenzene	146	8.839	8.840	(0.995)	3912	1.00000	1.01	
	90	p-Isopropyltoluene	119	8.855	8.856	(0.997)	7273	1.00000	0.991	
*	91	1,4-Dichlorobenzene-d4 (IS)	152	8.881	8.882	(1.000)	127270	50.0000	(Q)	
	92	1,4-Dichlorobenzene	146	8.897	8.898	(1.002)	4509	1.00000	1.13	
	93	n-Butylbenzene	91	9.075	9.071	(1.022)	6312	1.00000	0.935	
	94	1,2-Dichlorobenzene	146	9.091	9.091	(1.024)	3782	1.00000	1.05	
	96	1,2,4-Trichlorobenzene	180	9.922	9.918	(1.117)	2714	1.00000	0.984	
	97	Hexachlorobutadiene	225	9.985	9.981	(1.124)	1688	1.00000	0.913	
	98	Naphthalene	128	10.069	10.064	(1.134)	5609	1.00000	1.06	
	99	1,2,3-Trichlorobenzene	180	10.178	10.179	(1.146)	2691	1.00000	1.05	
	100	2,methyl-naphthalene	142	10.707	10.702	(1.206)	3445	1.00000	1.06	

QC Flag Legend

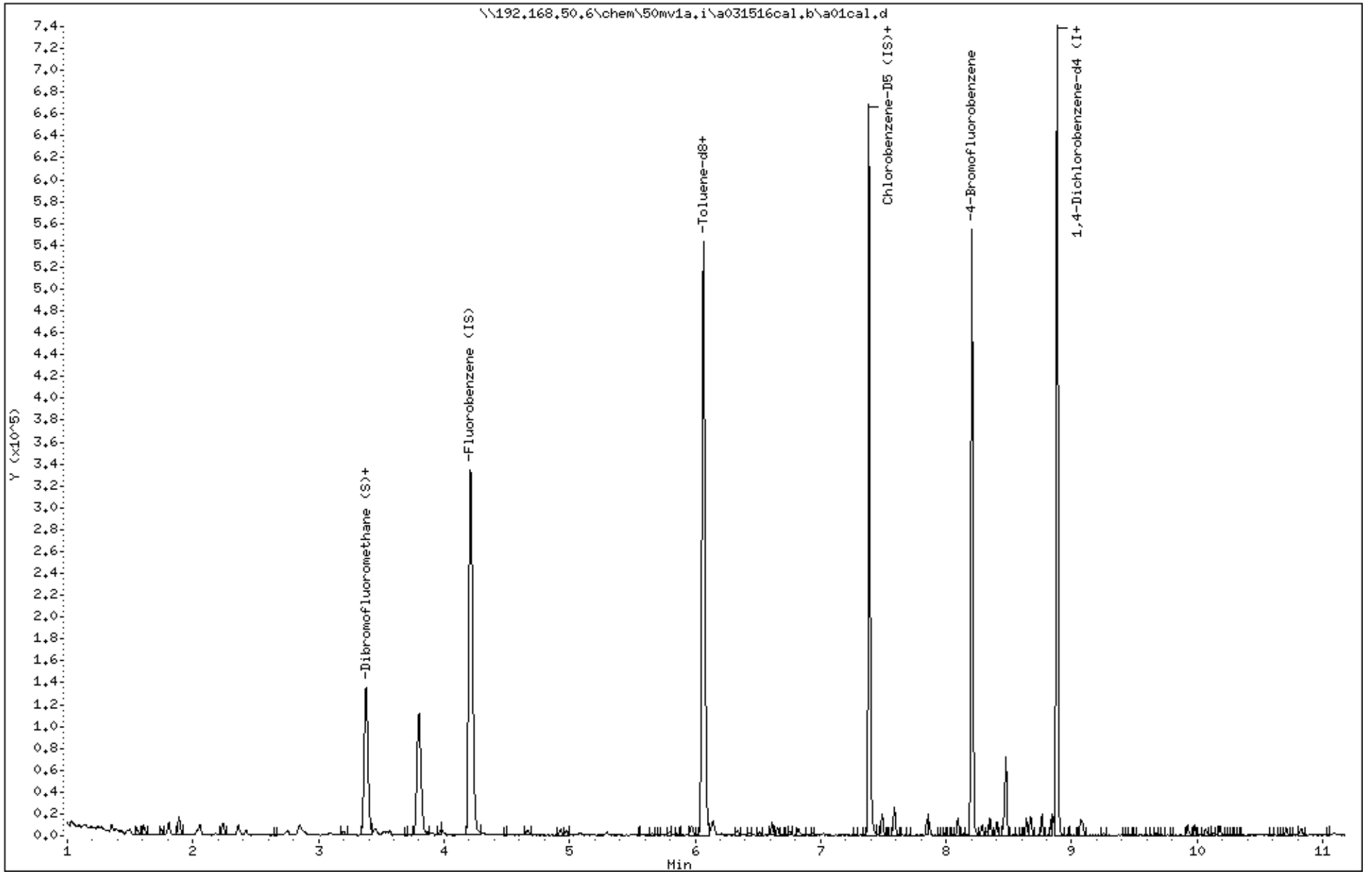
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

WP: Indicates that the wrong peak was chosen by the data system.
:

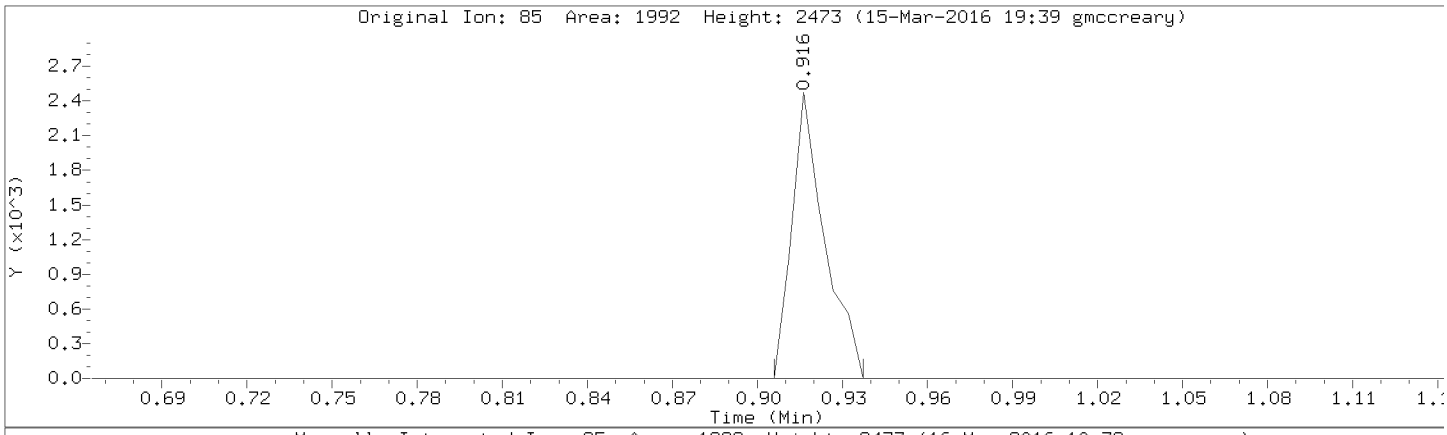
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a01cal.d
Date : 15-MAR-2016 17:44
Client ID: 8260-CAL1,117040:0
Sample Info: 8260-CAL1,117040:0
Purge Volume: 5.0
Column phase: DB-624

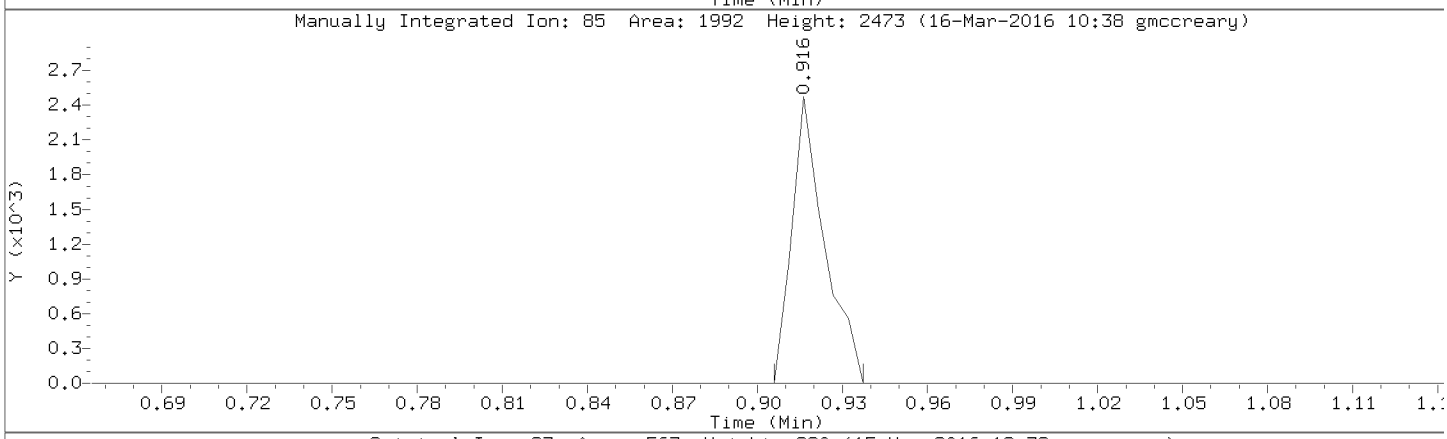
Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18

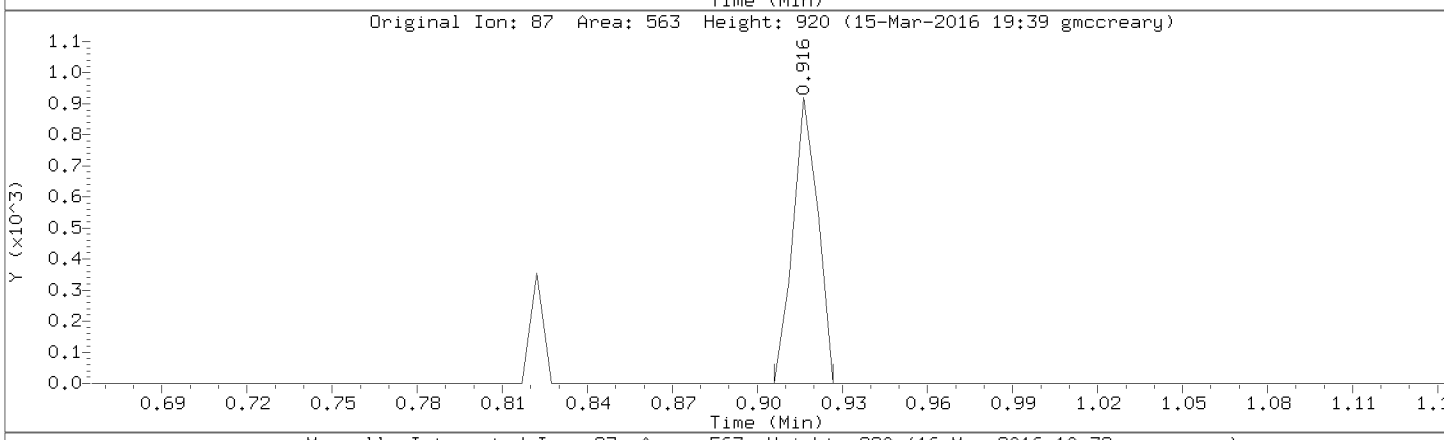


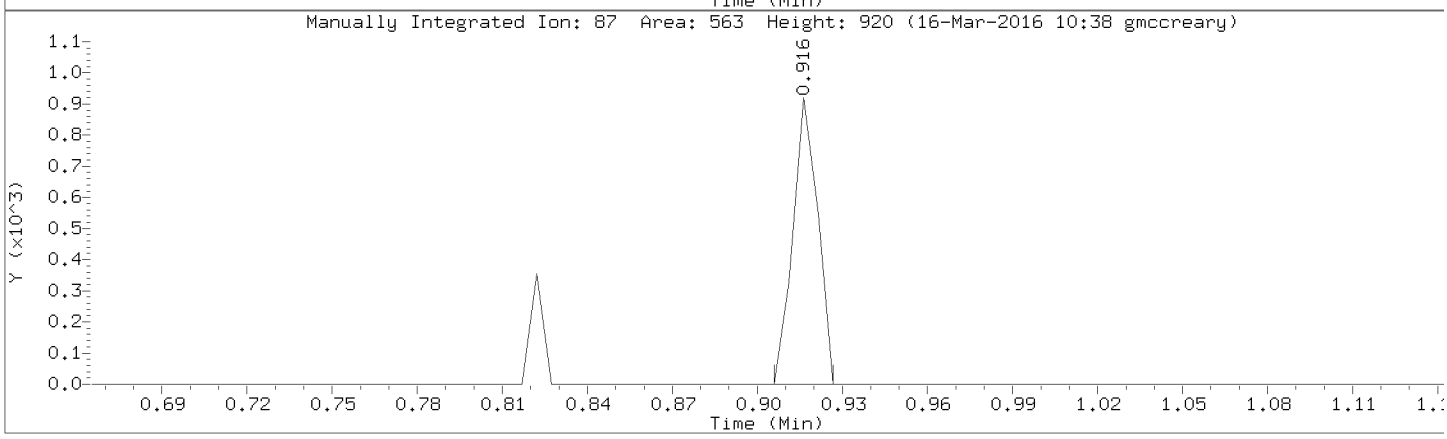
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: Dichlorodifluoromethane Review Code: WP
CAS Number: 75-71-8

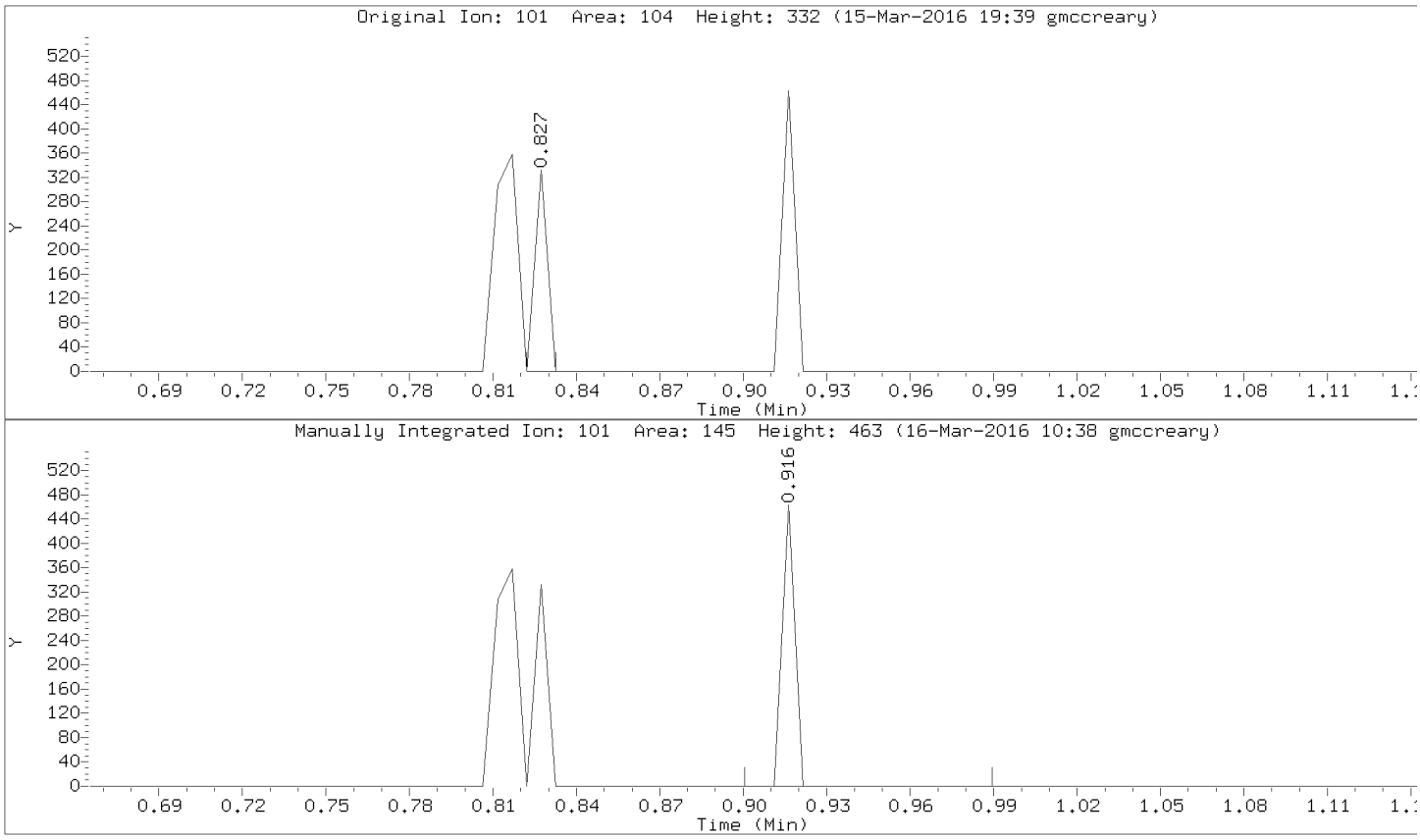






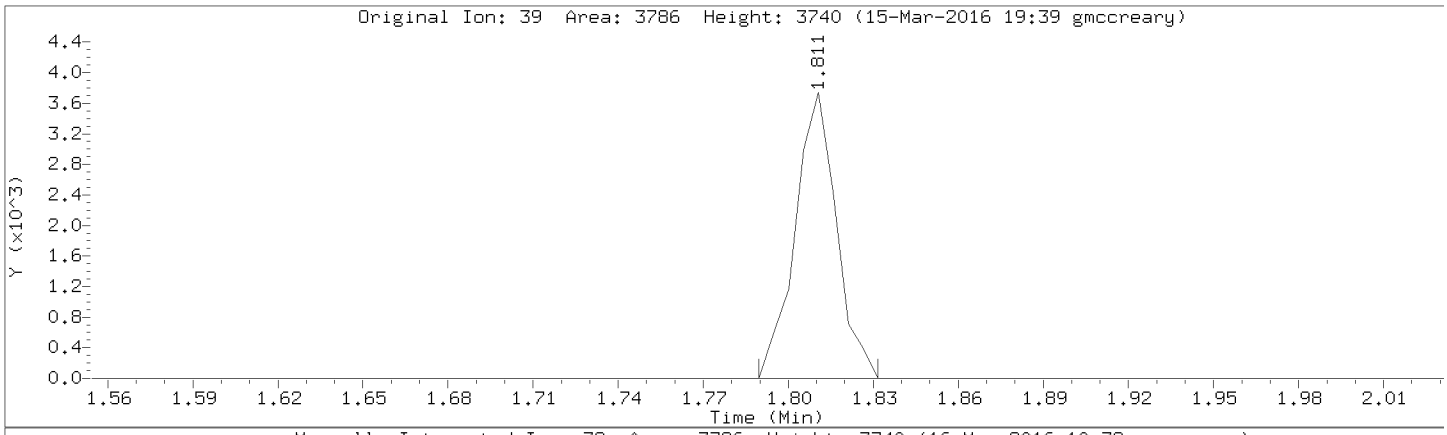


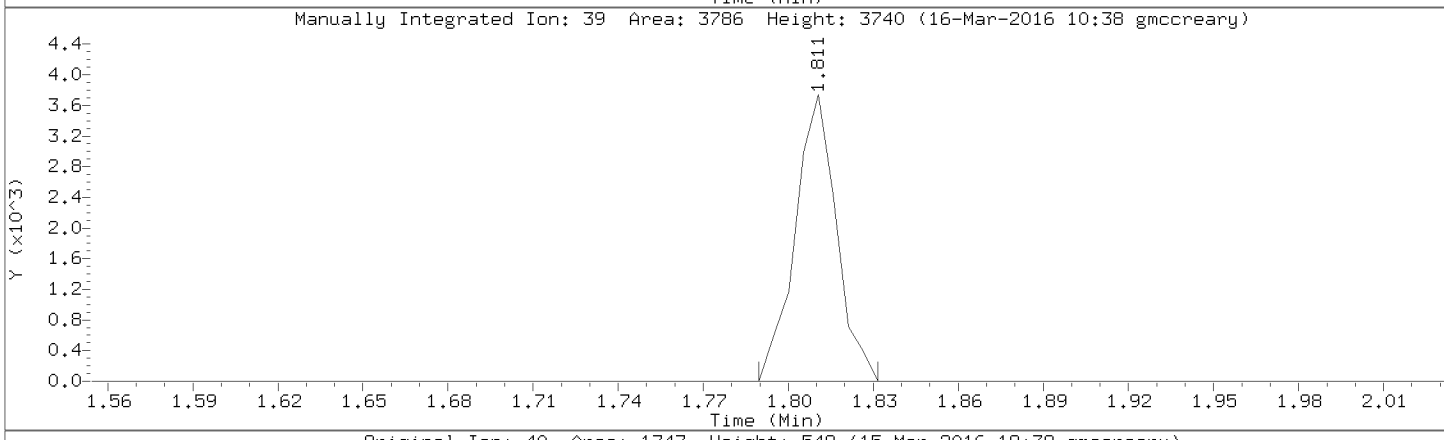
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

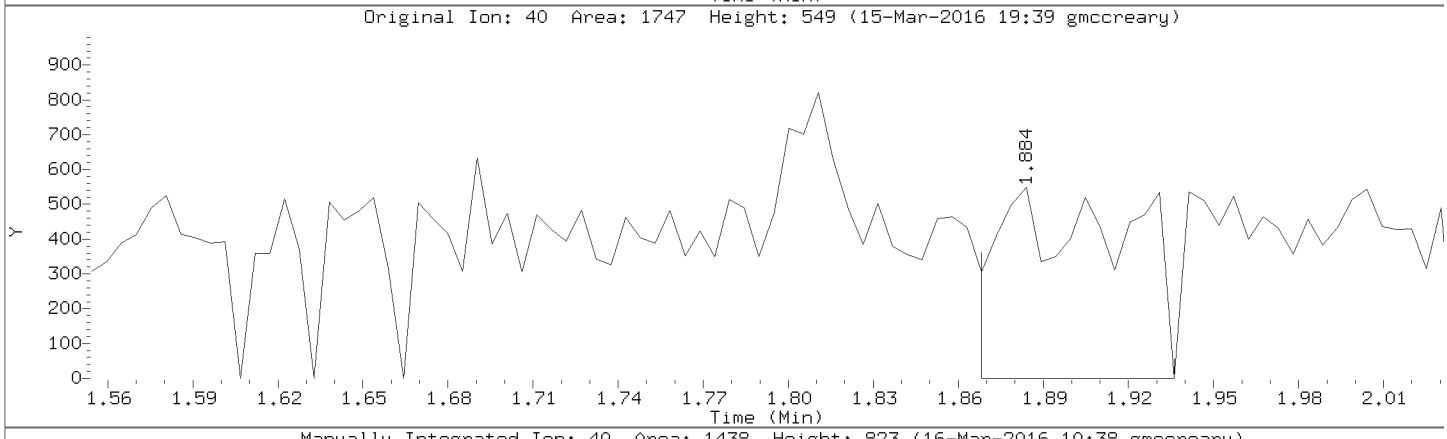


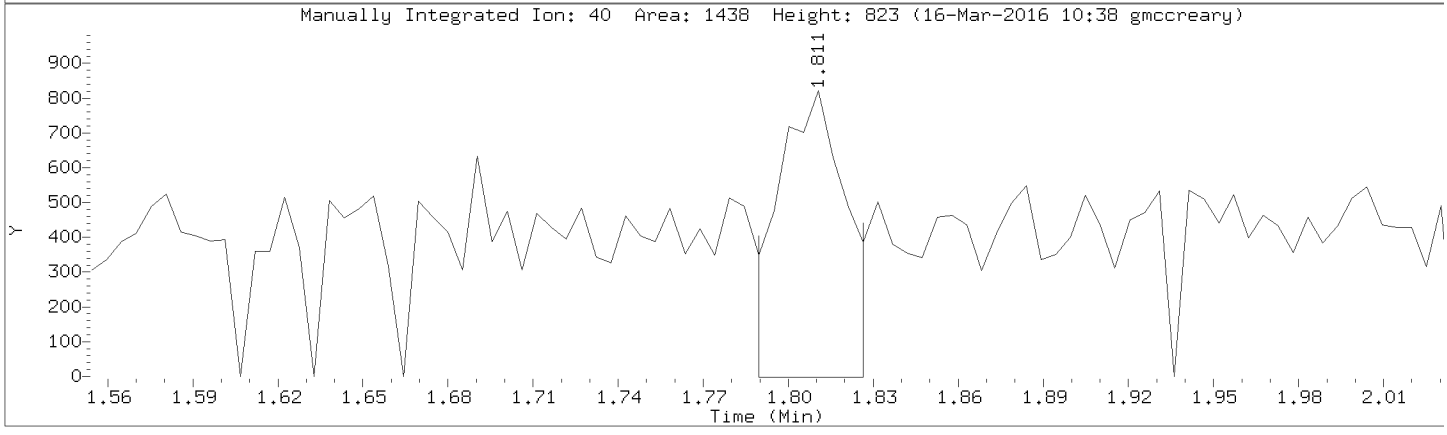
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: Acetonitrile Review Code: WP
CAS Number: 75-05-8

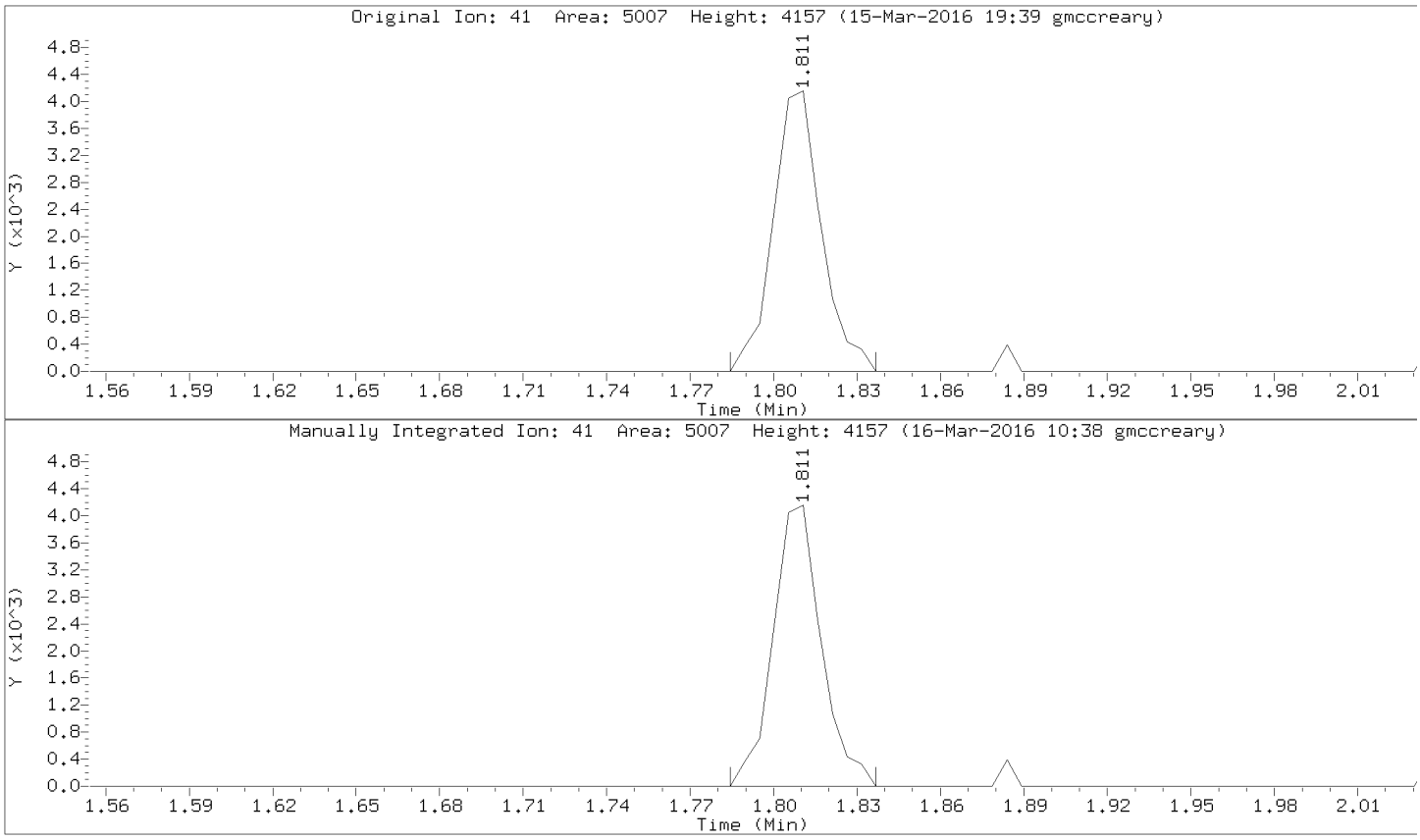






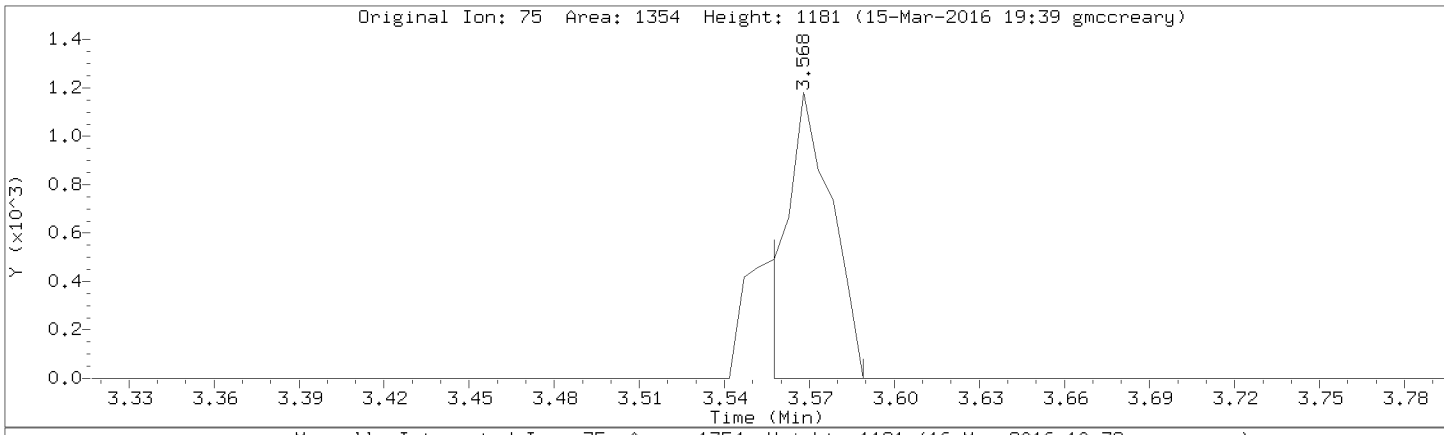


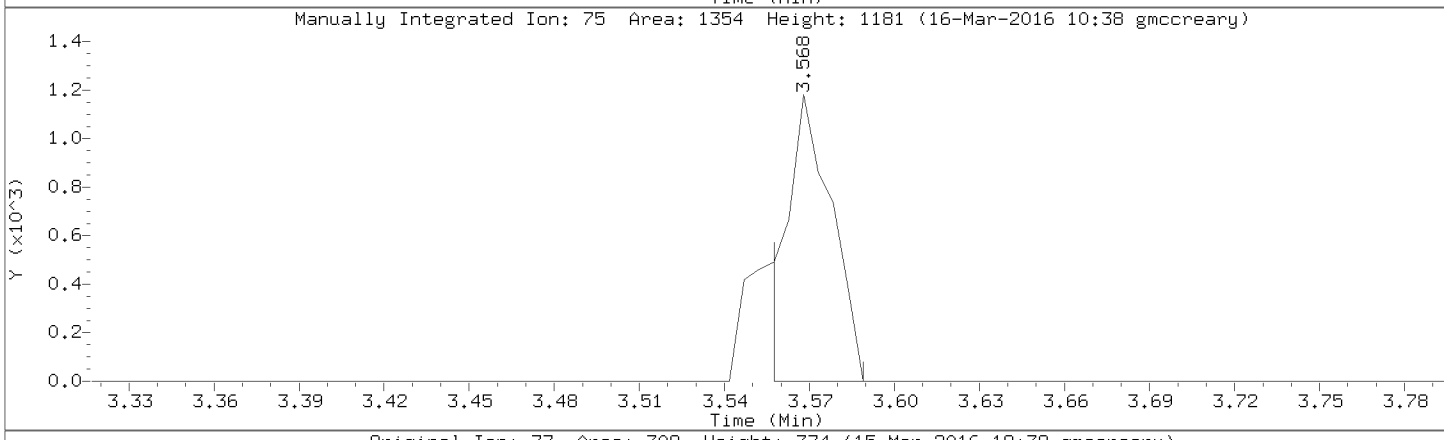
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

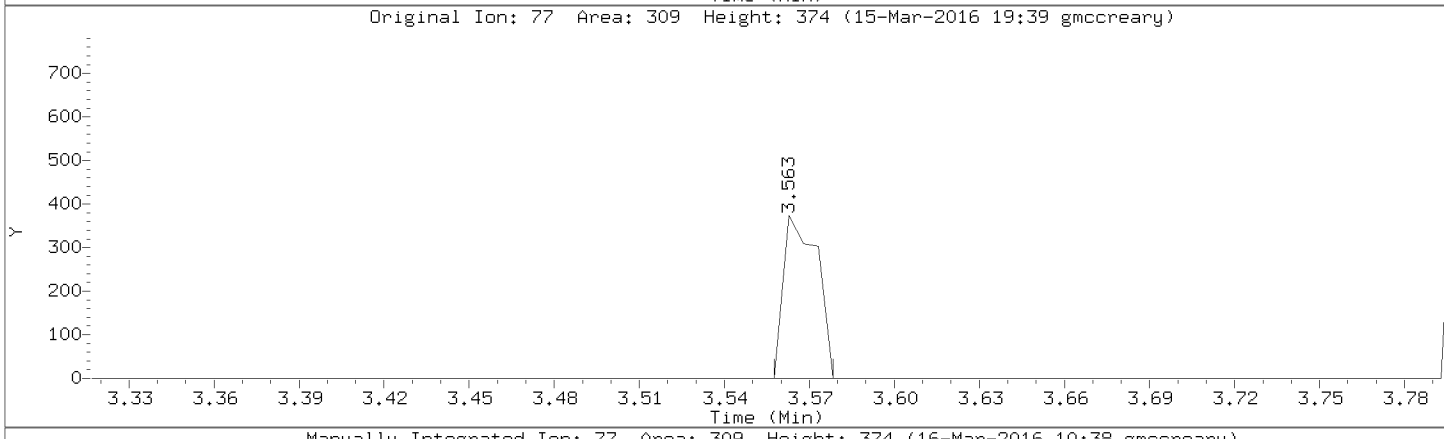


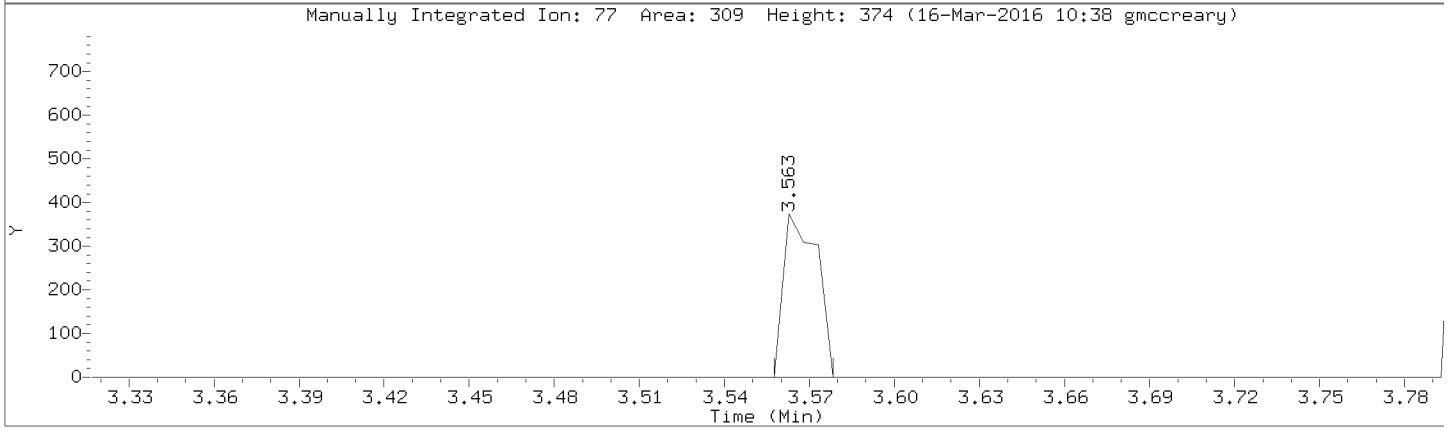
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: 1,1-Dichloropropene Review Code: WP
CAS Number: 563-58-6

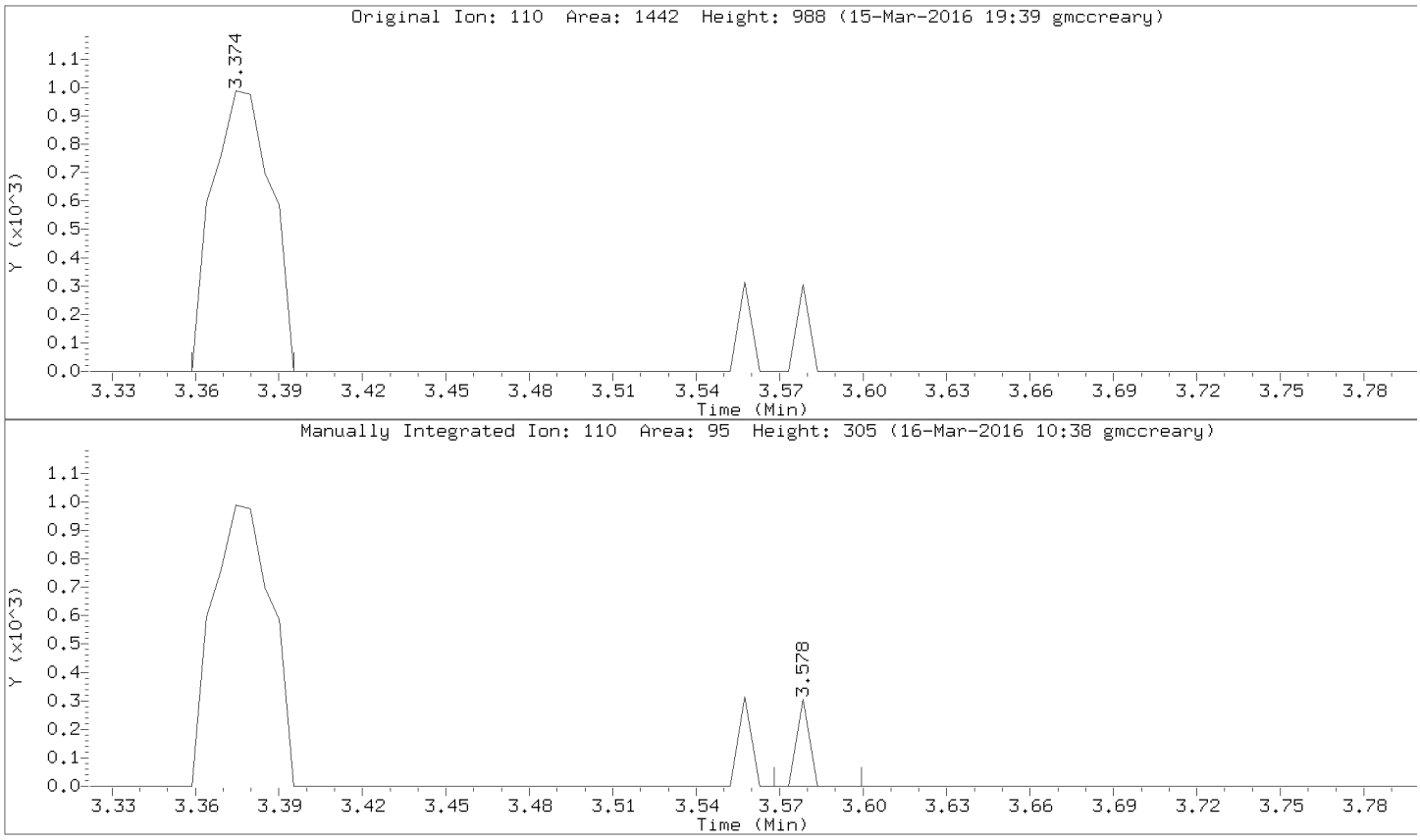






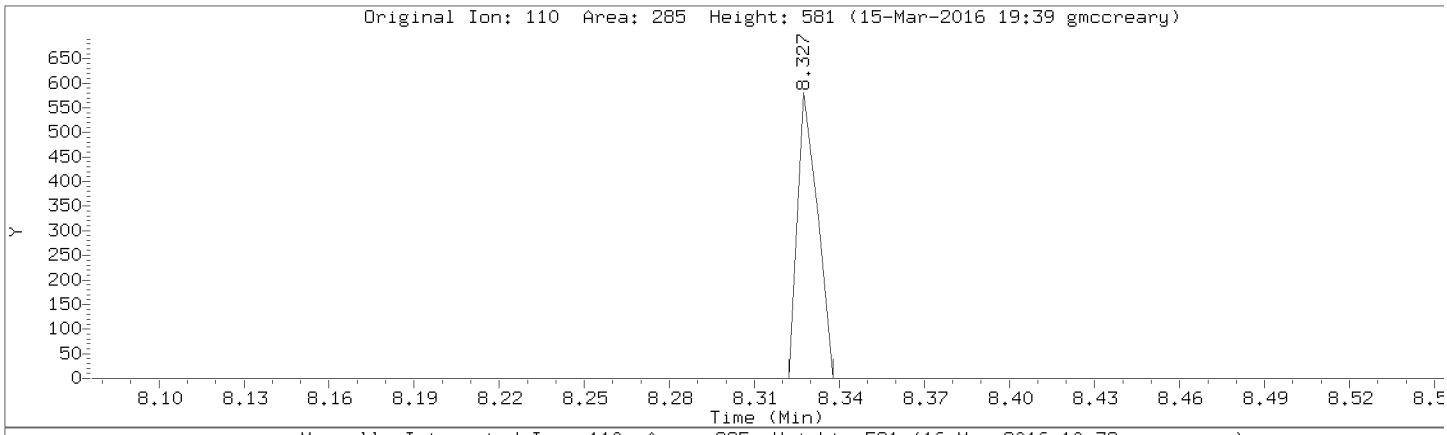


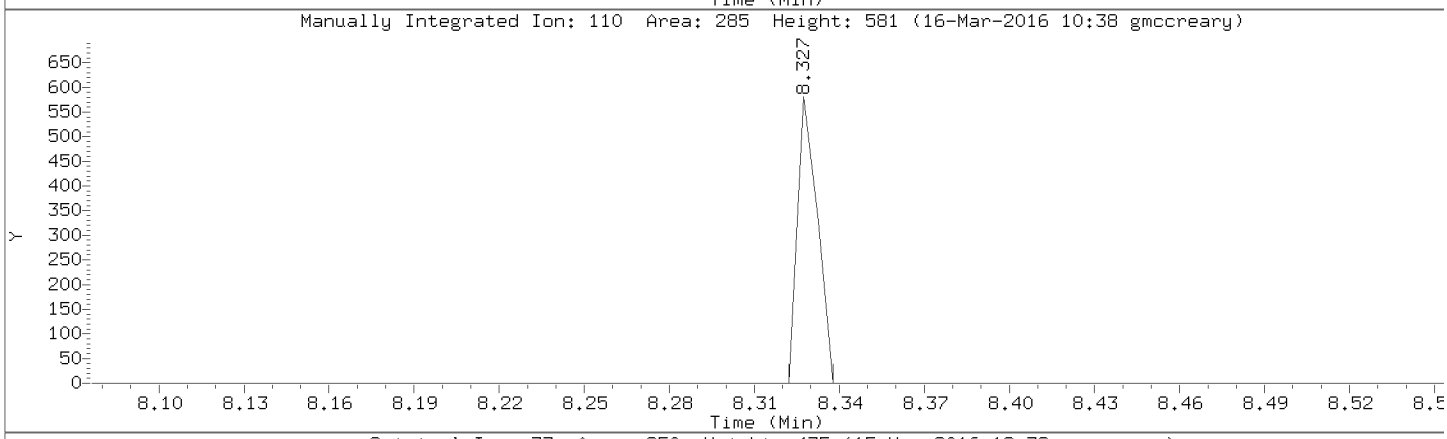
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

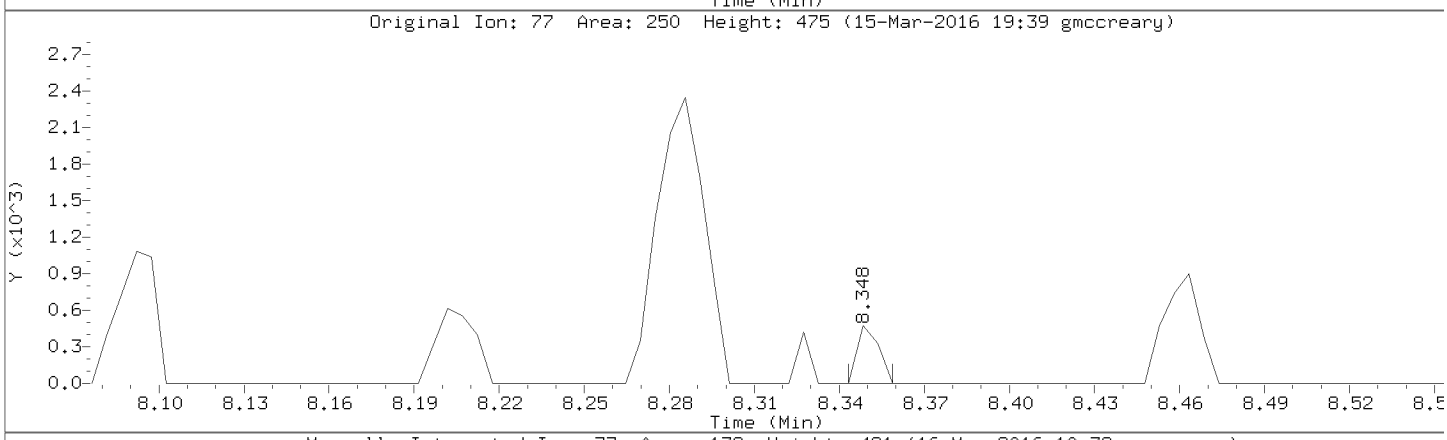


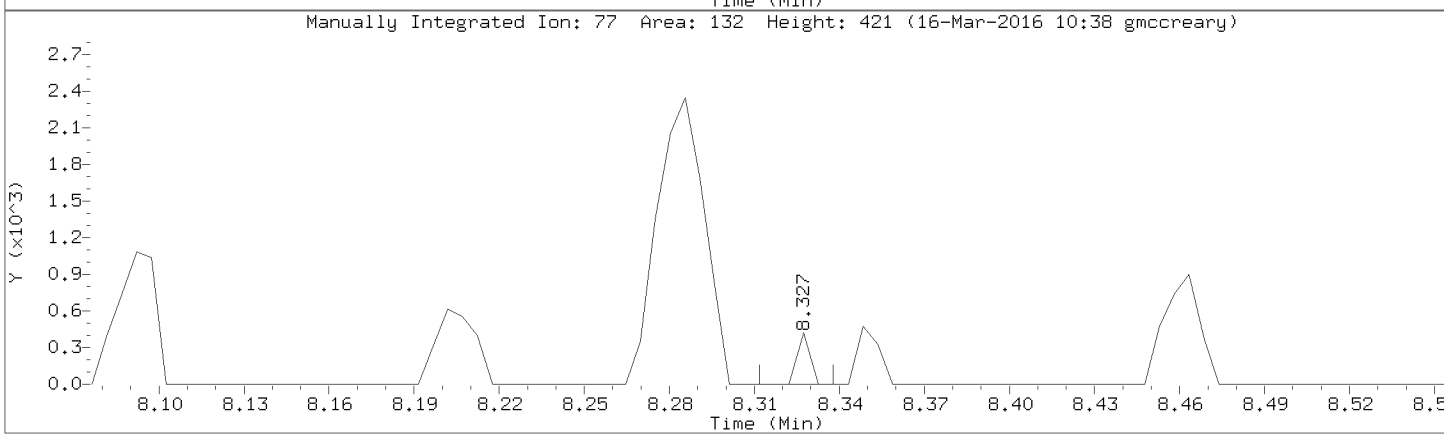
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: 1,2,3-Trichloropropane Review Code: WP
CAS Number: 96-18-4

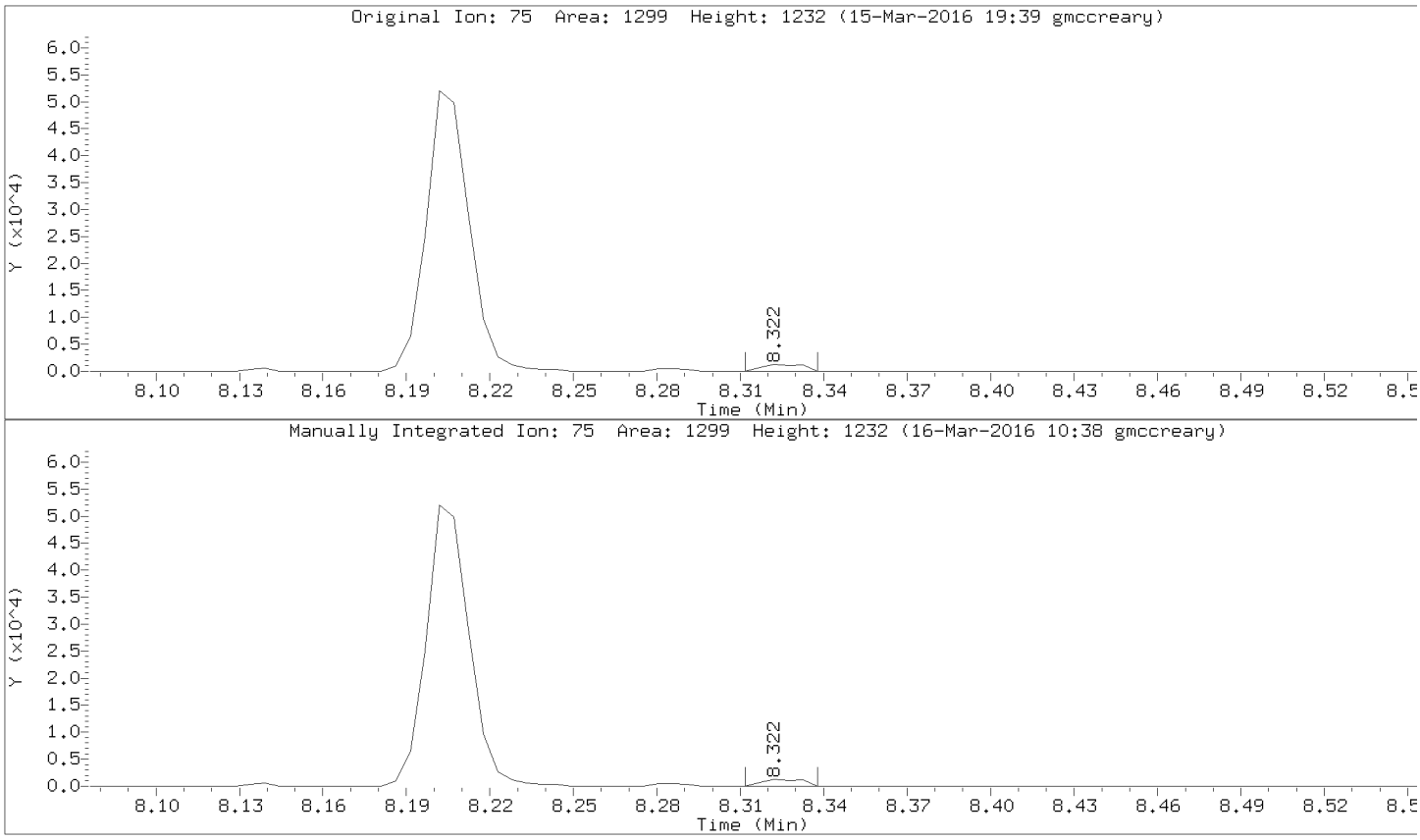






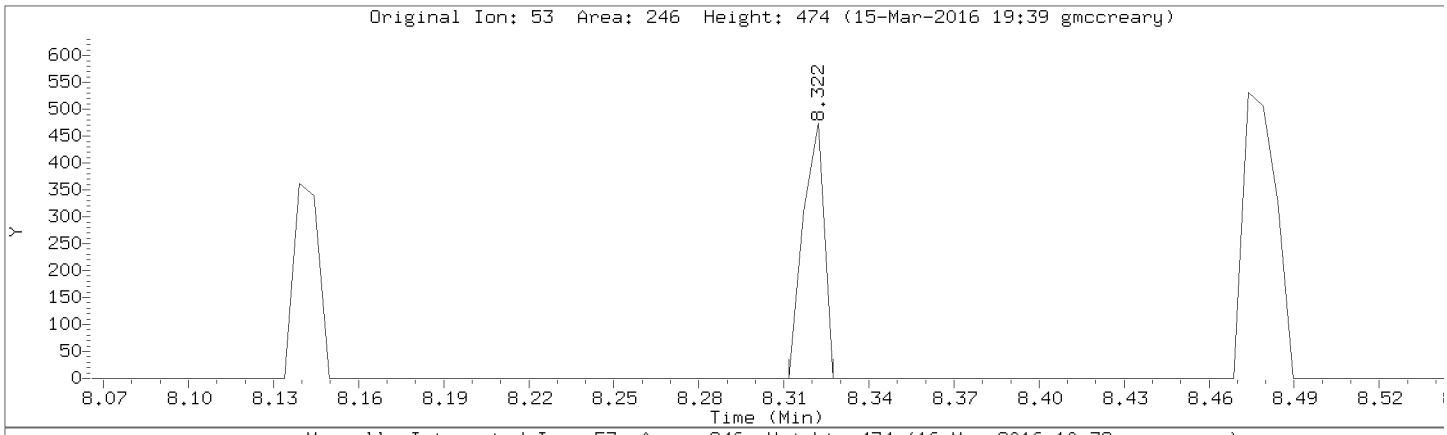


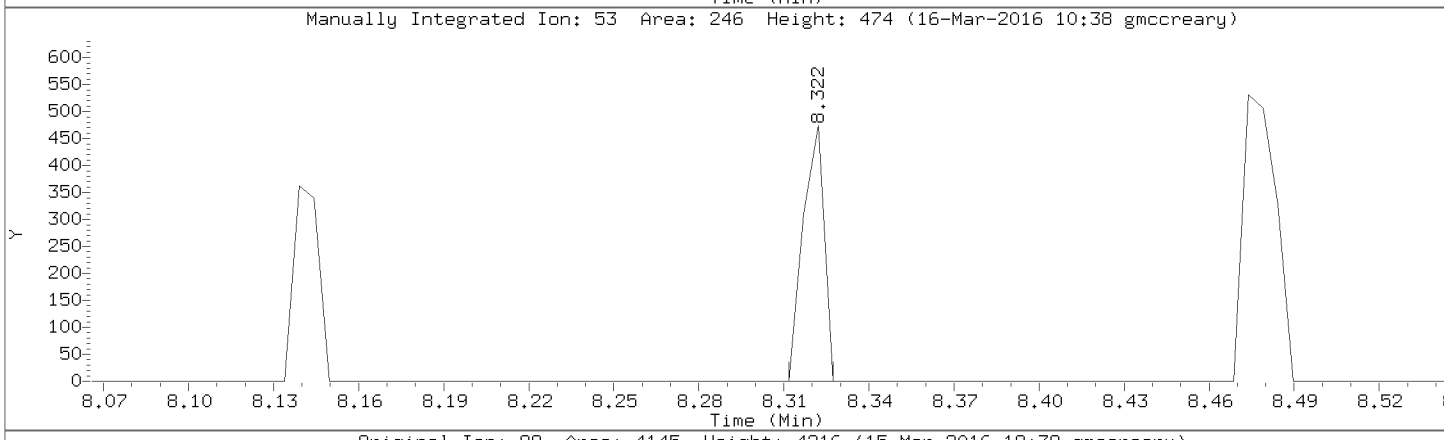
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

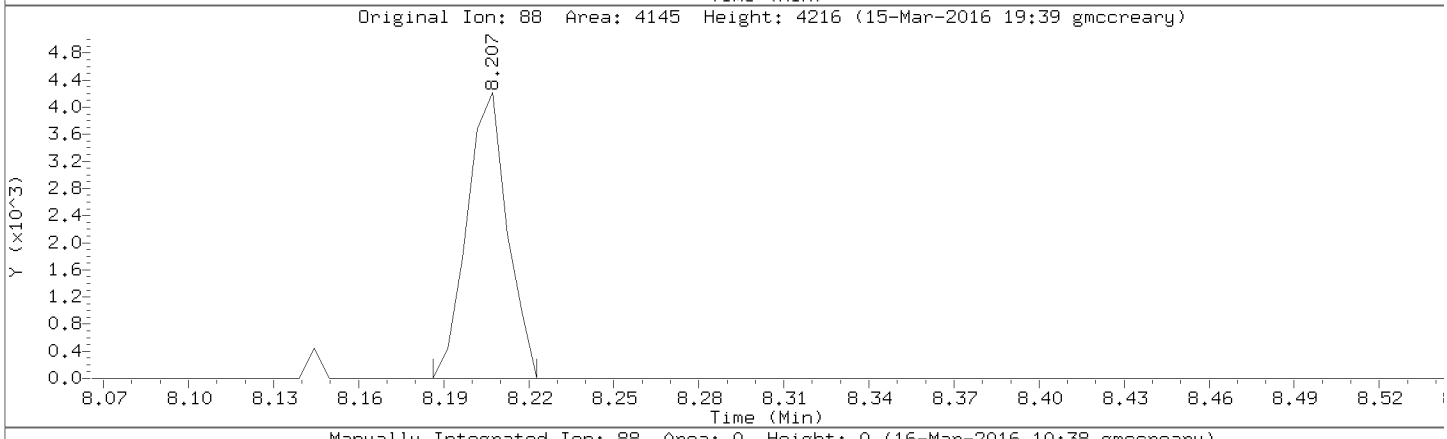


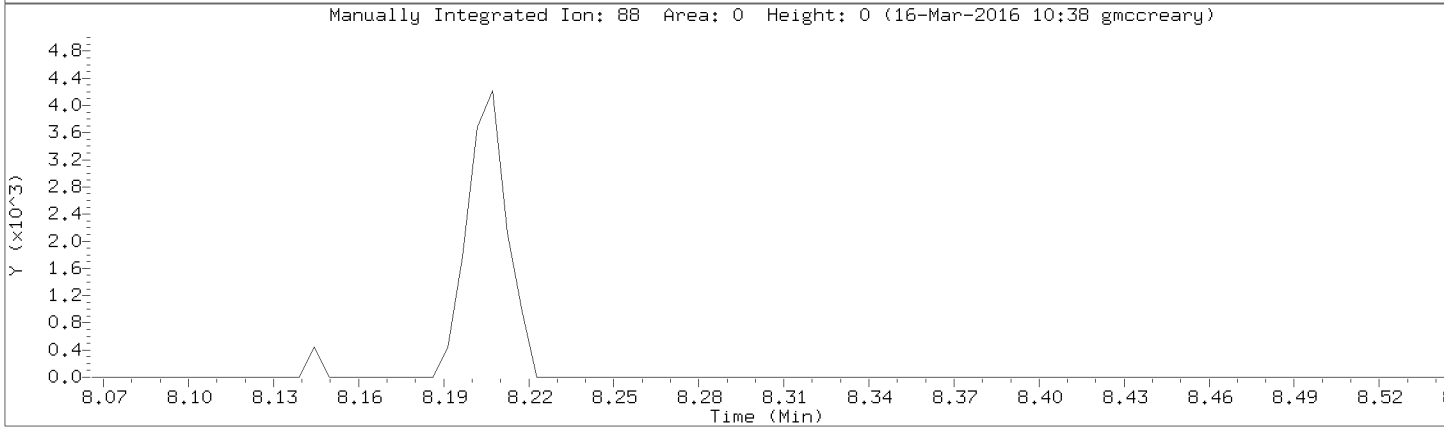
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

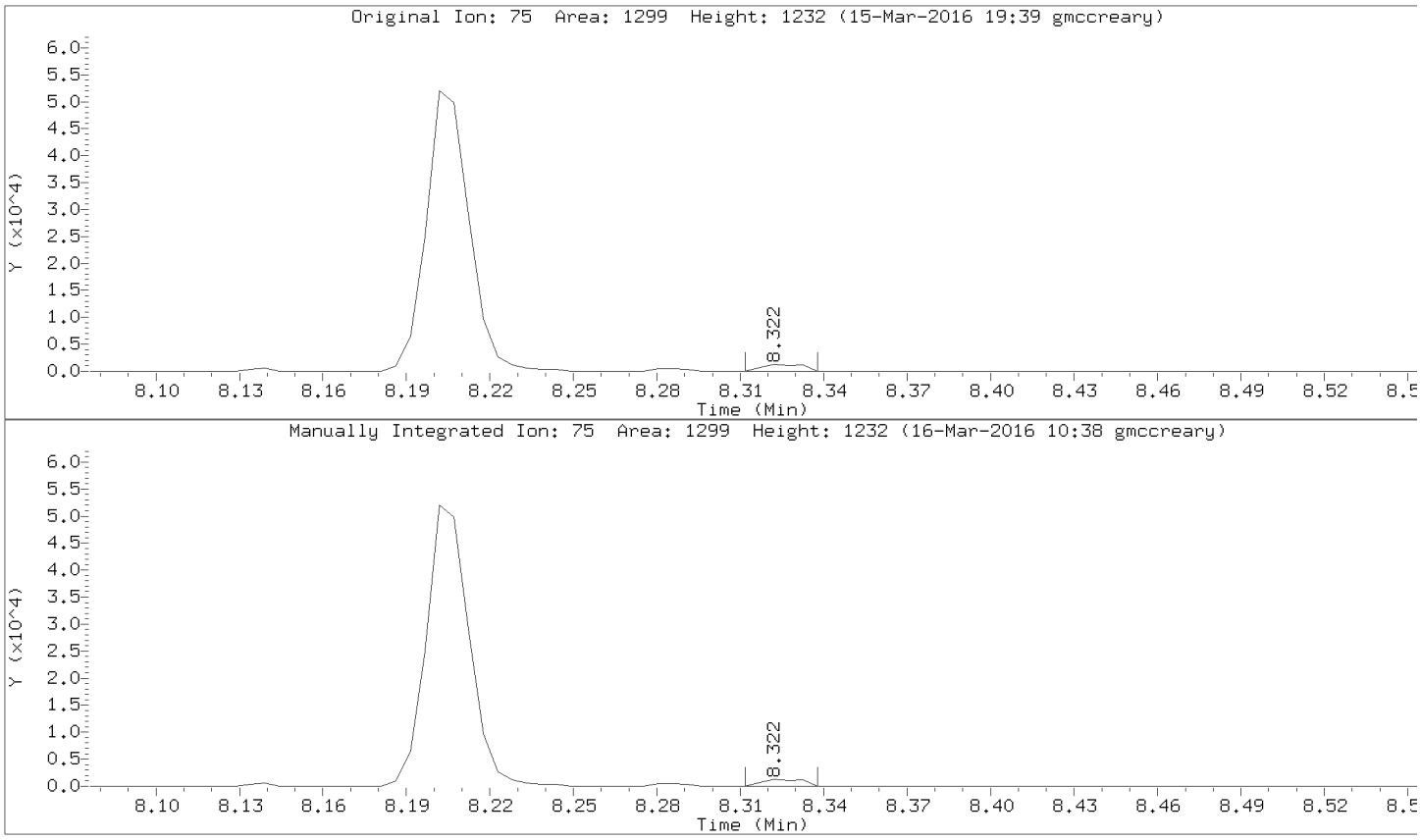






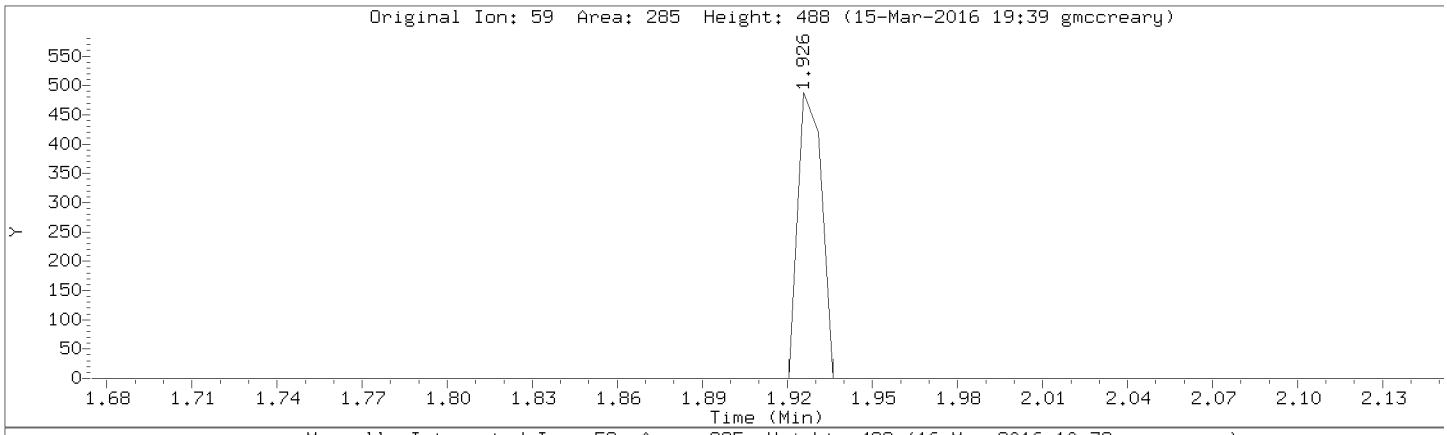


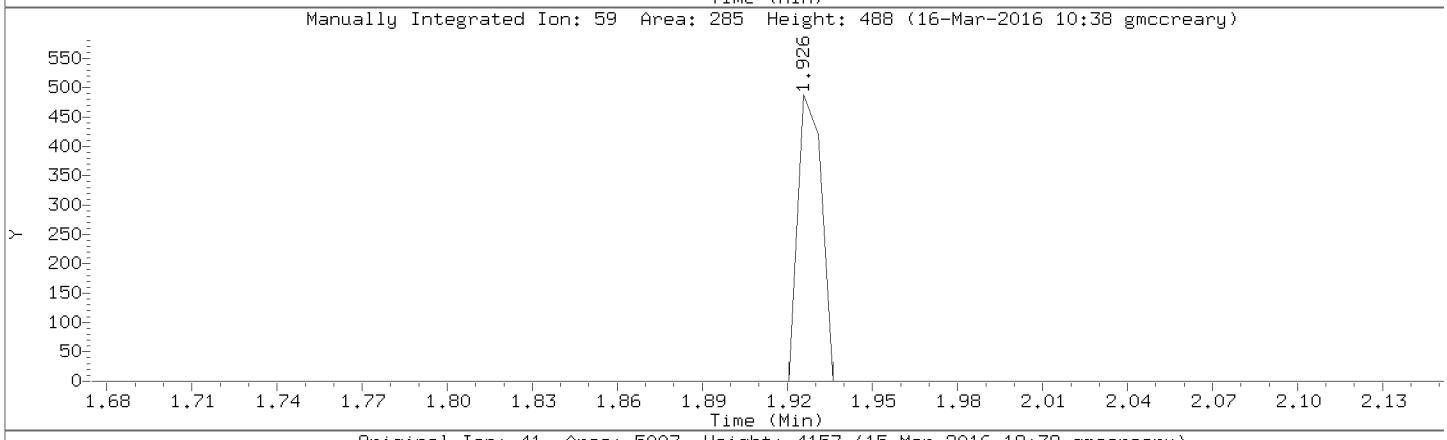
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

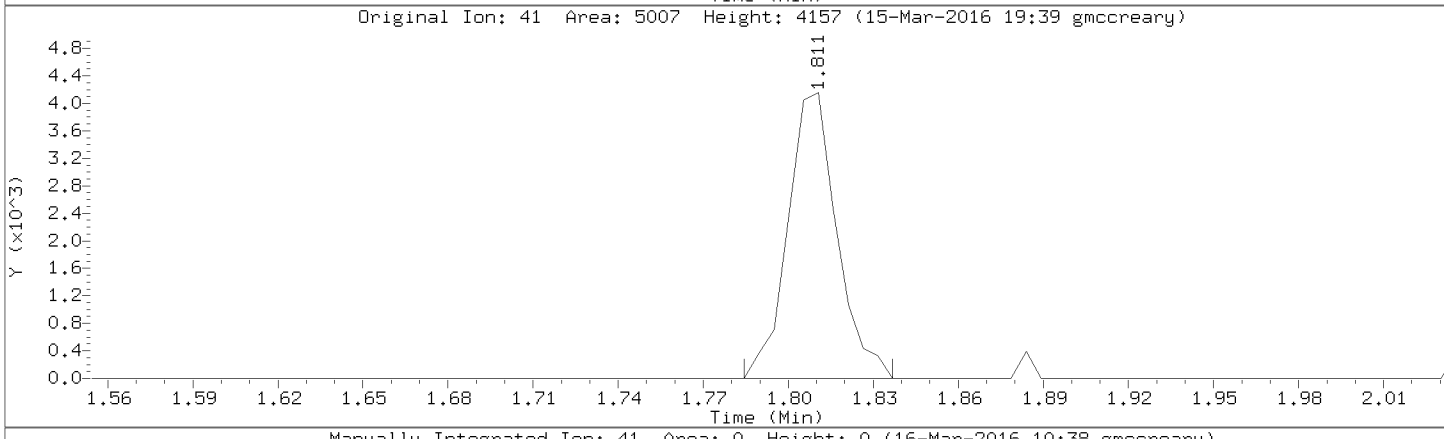


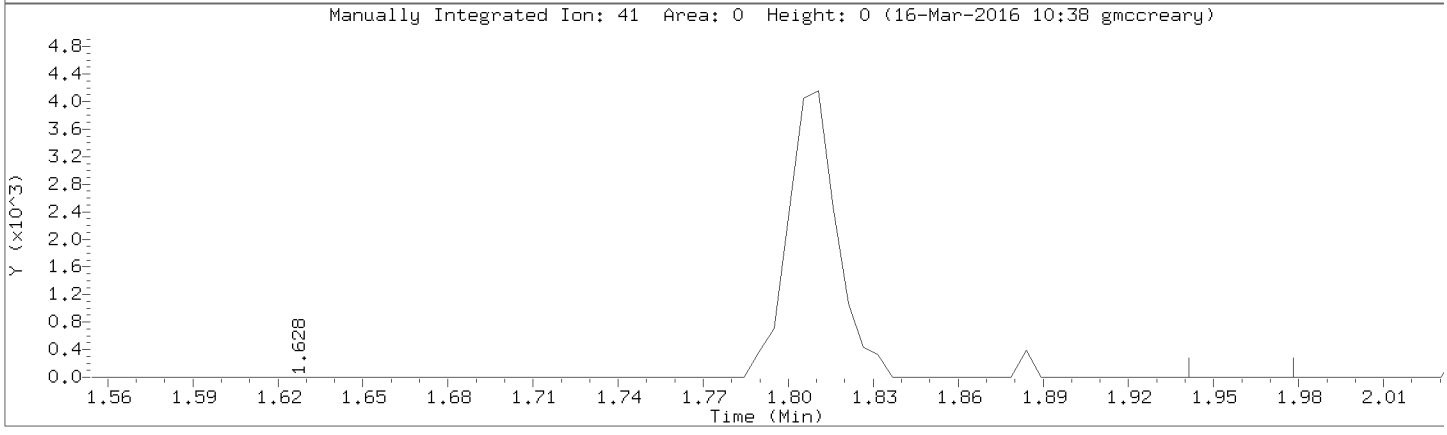
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



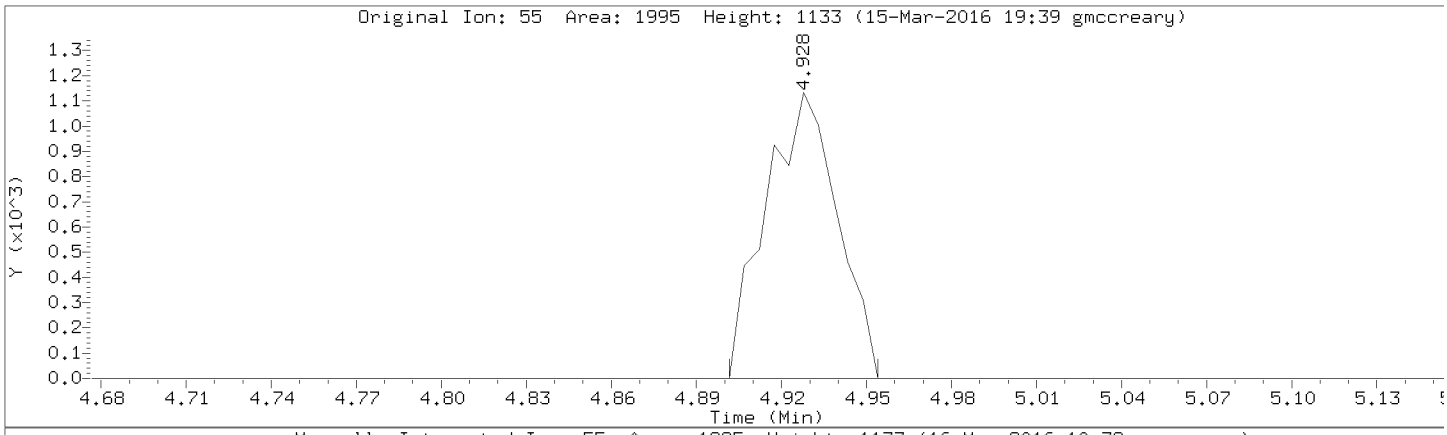


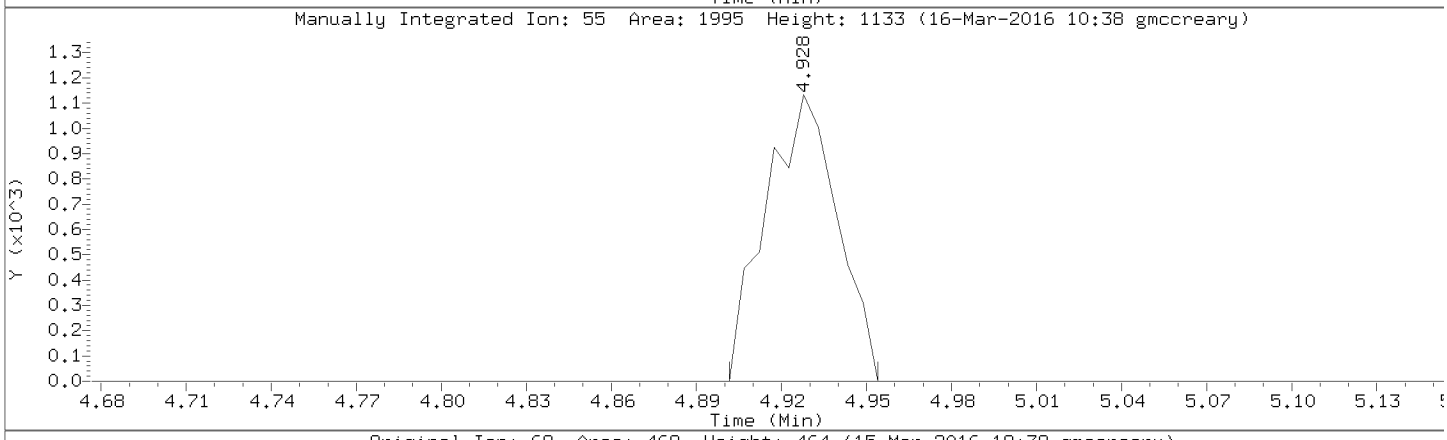


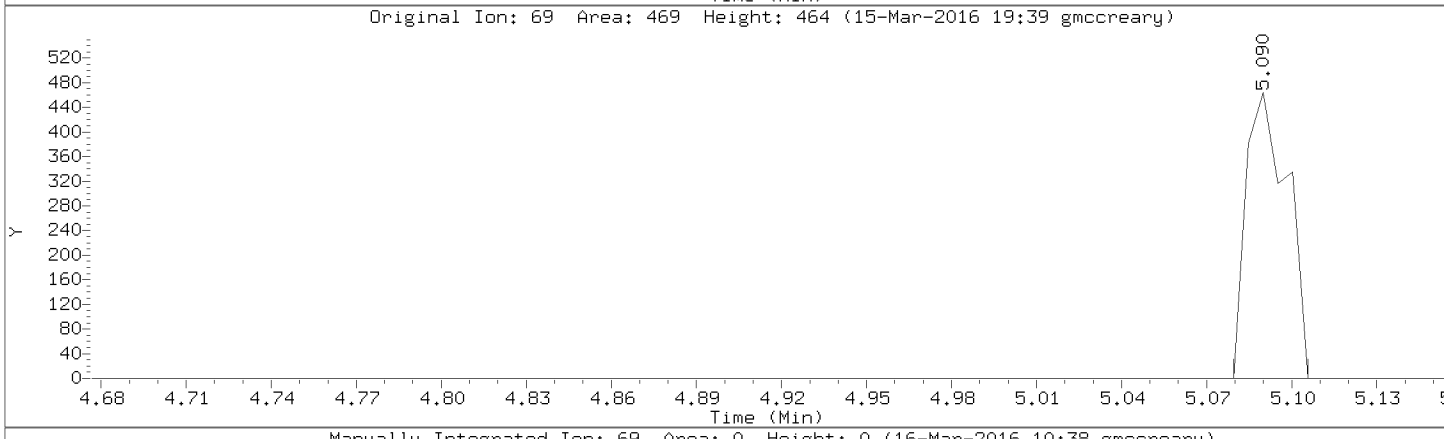


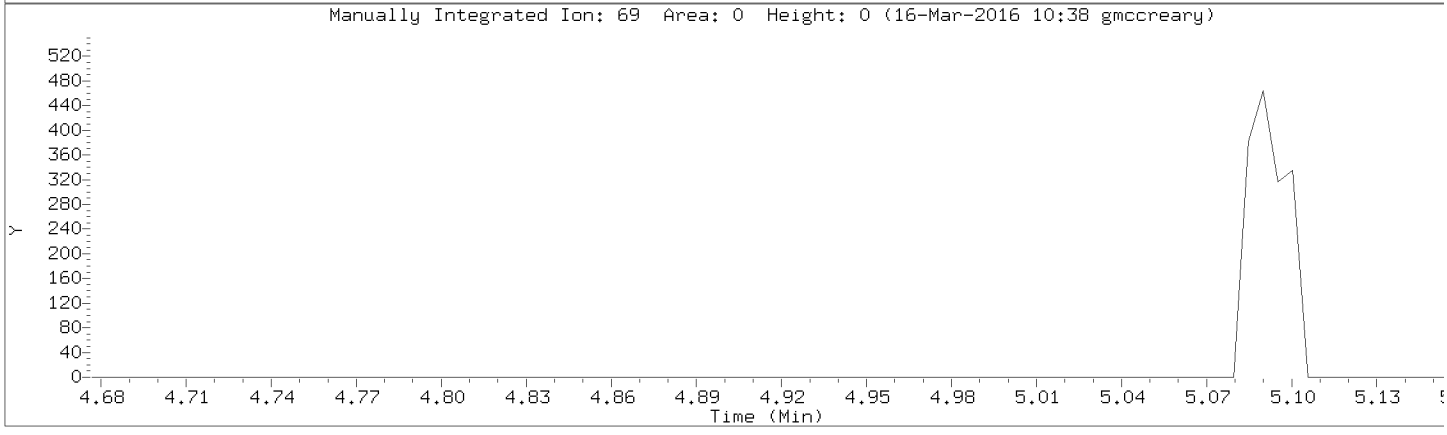
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: Methylcyclohexane Review Code: WP
CAS Number: 108-87-2

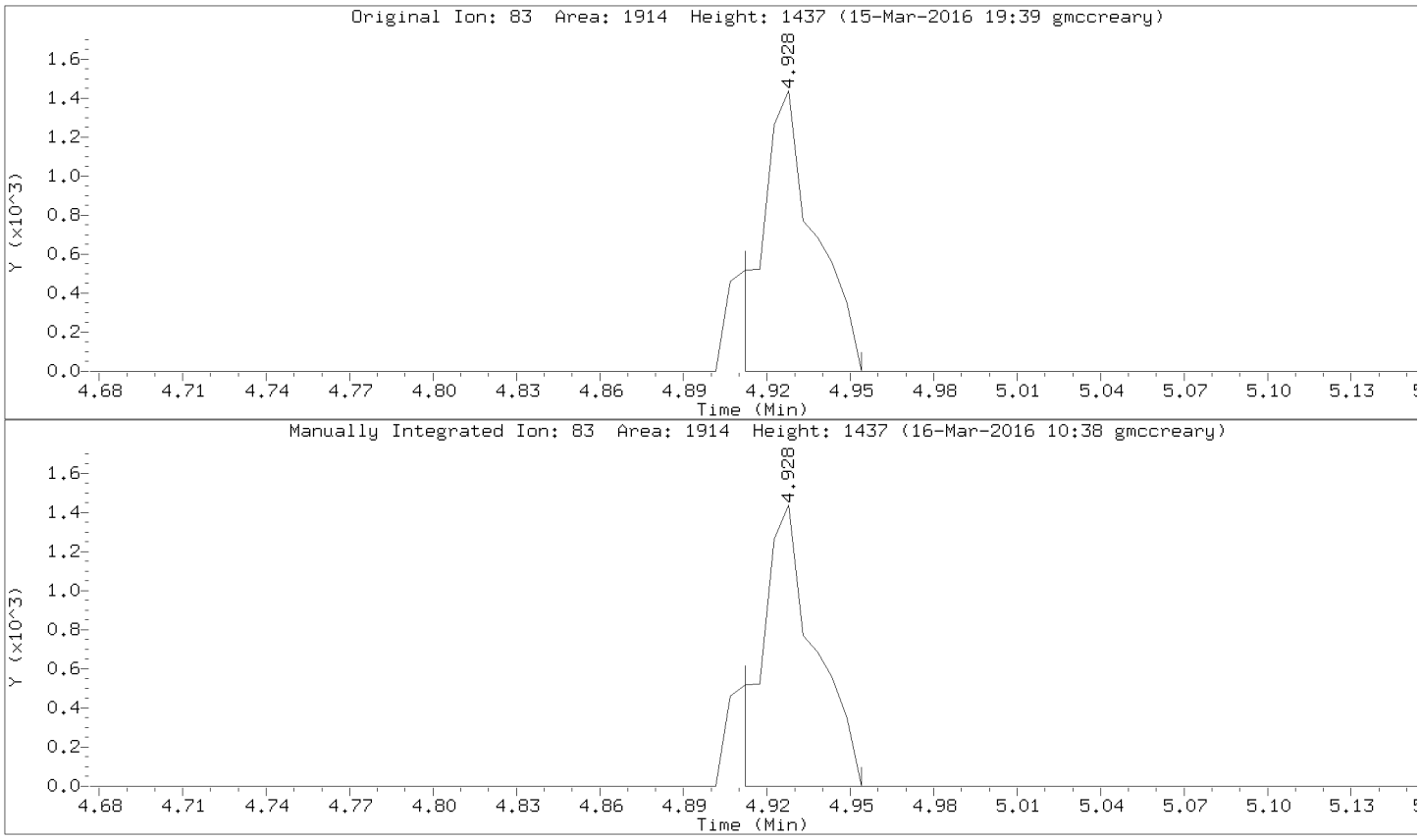








Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a01cal.d
Injection Date: 15-MAR-2016 17:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL1,117040:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a02cal.d
Lab Smp Id: 8260-CAL2,117041:0 Client Smp ID: 8260-CAL2,117041:0
Inj Date : 15-MAR-2016 18:19
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal2,117041:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.217)	4184	2.00000	1.90(M)	NI
2	Chloromethane	50	1.000	0.995	(0.237)	6281	2.00000	2.19	
3	Vinyl Chloride	62	1.047	1.042	(0.248)	4797	2.00000	1.94	
4	Bromomethane	94	1.194	1.189	(0.283)	1570	2.00000	2.13	
5	Chloroethane	64	1.241	1.236	(0.294)	3143	2.00000	2.37	
6	Trichlorofluoromethane	101	1.356	1.351	(0.322)	5892	2.00000	2.08	
7	Diethyl ether	74	1.481	1.476	(0.351)	1306	2.00000	1.82	
8	1,2-dichlorotrifluoroethane	67	1.497	1.497	(0.355)	3758	2.00000	1.88	
9	Acrolein	56	1.555	1.555	(0.369)	6465	40.0000	40.8	
10	1,1,2trichlorotrifluoroethane	101	1.607	1.602	(0.381)	3163	2.00000	1.81(Q)	
11	1,1-Dichloroethene	96	1.612	1.607	(0.382)	2607	2.00000	1.92	
12	Acetone	43	1.623	1.623	(0.385)	4495	10.0000	12.7	
13	Iodomethane	142	1.701	1.701	(0.403)	813	4.00000	9.38(QM)	NI
14	Carbon Disulfide	76	1.748	1.748	(0.415)	9276	2.00000	1.95	
15	Methyl Acetate	43	1.795	1.790	(0.426)	2092	2.00000	2.10	
16	Acetonitrile	39	1.811	1.806	(0.429)	7464	2.00000	1.90	
17	allyl chloride	41	1.806	1.806	(0.428)	9377	4.00000	3.70	
18	Methylene Chloride	84	1.889	1.884	(0.448)	6156	2.00000	3.95	
19	tert-Butyl Alcohol	59	1.926	1.926	(0.457)	499	4.00000	3.60(M)	WP
20	Acrylonitrile	53	2.025	2.026	(0.480)	2773	8.00000	6.78	
21	Methyl-tert-butyl ether	73	2.046	2.046	(0.485)	7336	2.00000	1.92	
22	1,2-Dichloroethene (trans)	96	2.062	2.057	(0.489)	2628	2.00000	1.73	
23	n-Hexane	57	2.245	2.240	(0.532)	7279	2.00000	2.53	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.355	2.355	(0.558)	19817	8.00000	7.37	
	25 1,1-Dichloroethane	63	2.370	2.371	(0.562)	5536	2.00000	1.83	
	26 Chloroprene	53	2.423	2.423	(0.575)	5223	2.00000	1.79(M)	NI
	28 2-Butanone	43	2.836	2.836	(0.673)	6043	10.0000	10.5(M)	
	29 1,2-Dichloroethene (cis)	96	2.846	2.852	(0.675)	2961	2.00000	1.77	
	30 2,2-Dichloropropane	77	2.857	2.857	(0.678)	3703	2.00000	1.65	
	32 Methacrylonitrile	41	3.050	3.045	(0.723)	1211	2.00000	1.61(M)	NI
	33 Bromochloromethane	49	3.092	3.087	(0.733)	2368	2.00000	1.97	
	34 Tetrahydrofuran	42	3.113	3.103	(0.738)	523	2.00000	1.60(QM)	NI
	35 Chloroform	83	3.197	3.202	(0.758)	5335	2.00000	1.85	
	37 1,1,1-Trichloroethane	97	3.375	3.375	(0.800)	4554	2.00000	1.78	
$	38 Dibromofluoromethane (S)	113	3.380	3.380	(0.802)	84605	50.0000	49.6	
	150 n-butyl chloride	56	3.521	3.527	(0.835)	6542	2.00000	1.80(M)	NI
	39 Cyclohexane	56	3.453	3.453	(0.819)	5914	2.00000	1.96	
	40 Carbon Tetrachloride	117	3.563	3.558	(0.845)	2997	2.00000	1.41	
	41 1,1-Dichloropropene	75	3.568	3.568	(0.846)	3784	2.00000	1.70	
	42 Benzene	78	3.814	3.814	(0.904)	11853	2.00000	1.92	
	43 1,2-Dichloroethane	62	3.903	3.903	(0.926)	4512	2.00000	2.10(M)	NI
	44 Isobutyl alcohol	43	3.992	3.976	(0.947)	2113	2.00000	1.65(M)	NI
	45 2,2,4-Trimethylpentane	57	3.981	3.976	(0.944)	12344	2.00000	1.84	
*	46 Fluorobenzene (IS)	96	4.217	4.217	(1.000)	338841	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	3097	2.00000	1.83	
	48 Methylcyclohexane	55	4.928	4.928	(1.169)	4542	2.00000	1.83(T)	
	49 1,2-Dichloropropane	63	4.975	4.975	(1.180)	2910	2.00000	1.83	
	50 Dibromomethane	93	5.085	5.075	(1.206)	1362	2.00000	1.64(Q)	
	51 Methyl methacrylate	69	5.095	5.090	(1.208)	1132	2.00000	1.36(M)	NI
	53 Bromodichloromethane	83	5.299	5.300	(1.257)	4129	2.00000	1.97(M)	NI
	54 2-Chloroethyl vinyl ether	63	5.660	5.650	(0.766)	2166	4.00000	3.30	
	55 cis-1,3-Dichloropropene	75	5.796	5.797	(0.785)	3954	2.00000	1.70	
	56 4-Methyl-2-Pentanone	43	5.969	5.969	(0.808)	13722	10.0000	10.7	
$	57 Toluene-d8	98	6.068	6.068	(0.822)	337145	50.0000	49.7	
	58 Toluene	91	6.141	6.142	(0.831)	15342	2.00000	2.04	
	59 trans-1,3-Dichloropropene	75	6.434	6.429	(0.871)	3161	2.00000	1.64	
	60 Ethyl Methacrylate	69	6.513	6.508	(0.882)	3275	2.00000	1.87(M)	NI
	61 1,1,2-Trichloroethane	83	6.617	6.612	(0.896)	1865	2.00000	1.81	
	62 Tetrachloroethene	166	6.664	6.659	(0.902)	3815	2.00000	1.82	
	63 1,3-Dichloropropane	76	6.753	6.754	(0.914)	3726	2.00000	1.84	
	64 2-Hexanone	43	6.821	6.822	(0.924)	10316	10.0000	11.1	
	65 Dibromochloromethane	129	6.936	6.937	(0.939)	2882	2.00000	1.94	
	66 1,2-Dibromoethane	107	7.025	7.020	(0.951)	2367	2.00000	1.93	
*	67 Chlorobenzene-D5 (IS)	117	7.386	7.392	(1.000)	259106	50.0000		
	68 Chlorobenzene	112	7.412	7.413	(1.004)	9746	2.00000	2.05	
	69 1,1,1,2-Tetrachloroethane	131	7.491	7.491	(1.014)	2822	2.00000	1.83	
	70 Ethylbenzene	106	7.491	7.491	(1.014)	5124	2.00000	1.95	
	71 m&p-Xylene	106	7.590	7.590	(1.028)	12492	4.00000	3.88	
	72 o-Xylene	106	7.852	7.852	(1.063)	5828	2.00000	1.89	
	73 Styrene	104	7.867	7.868	(1.065)	9223	2.00000	1.81	
	74 Bromoform	173	7.988	7.988	(0.899)	1774	2.00000	1.75(M)	NI
	75 Isopropylbenzene	105	8.092	8.093	(1.096)	15776	2.00000	1.92	
$	76 4-Bromofluorobenzene	95	8.207	8.208	(1.111)	118181	50.0000	49.5	
	77 Bromobenzene	77	8.286	8.286	(1.122)	5806	2.00000	2.00	
	78 1,1,2,2-Tetrachloroethane	83	8.301	8.297	(0.935)	3495	2.00000	2.16(M)	NI
	80 trans-1,4-Dichloro-2-butene	53	8.322	8.317	(1.127)	786	2.00000	1.83(QM)	WP
	81 1,2,3-Trichloropropane	110	8.328	8.328	(0.938)	1069	2.00000	2.28(Q)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
82 n-Propylbenzene	91	8.354	8.354	(0.941)	18639	2.00000	1.86	
83 2-Chlorotoluene	91	8.401	8.401	(0.946)	11515	2.00000	2.00	
84 1,3,5-Trimethylbenzene	105	8.458	8.464	(0.952)	13164	2.00000	1.89	
85 4-Chlorotoluene	126	8.479	8.480	(0.955)	4299	2.00000	2.03	
86 tert-Butylbenzene	119	8.641	8.642	(0.973)	12115	2.00000	1.84	
87 1,2,4-Trimethylbenzene	105	8.678	8.678	(0.977)	13594	2.00000	1.88	
88 sec-Butylbenzene	105	8.767	8.767	(0.987)	17231	2.00000	1.88	
89 1,3-Dichlorobenzene	146	8.840	8.840	(0.995)	8809	2.00000	2.12	
90 p-Isopropyltoluene	119	8.856	8.856	(0.997)	14841	2.00000	1.88	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.882	(1.000)	136739	50.0000		
92 1,4-Dichlorobenzene	146	8.898	8.898	(1.002)	9185	2.00000	2.14	
93 n-Butylbenzene	91	9.075	9.071	(1.022)	13915	2.00000	1.92	
94 1,2-Dichlorobenzene	146	9.091	9.091	(1.024)	8407	2.00000	2.18	
95 1,2-Dibromo-3-chloropropane	155	9.510	9.505	(1.071)	463	2.00000	1.82	
96 1,2,4-Trichlorobenzene	180	9.933	9.918	(1.118)	6932	2.00000	2.34	
97 Hexachlorobutadiene	225	9.996	9.981	(1.125)	4087	2.00000	2.06	
98 Naphthalene	128	10.074	10.064	(1.134)	13268	2.00000	2.32	
99 1,2,3-Trichlorobenzene	180	10.189	10.179	(1.147)	6648	2.00000	2.41	
100 2,methyl-naphthalene	142	10.723	10.702	(1.207)	7971	2.00000	2.30	
101 1-methylnaphthalene	142	10.838	10.823	(1.220)	7216	2.00000	2.22	

QC Flag Legend

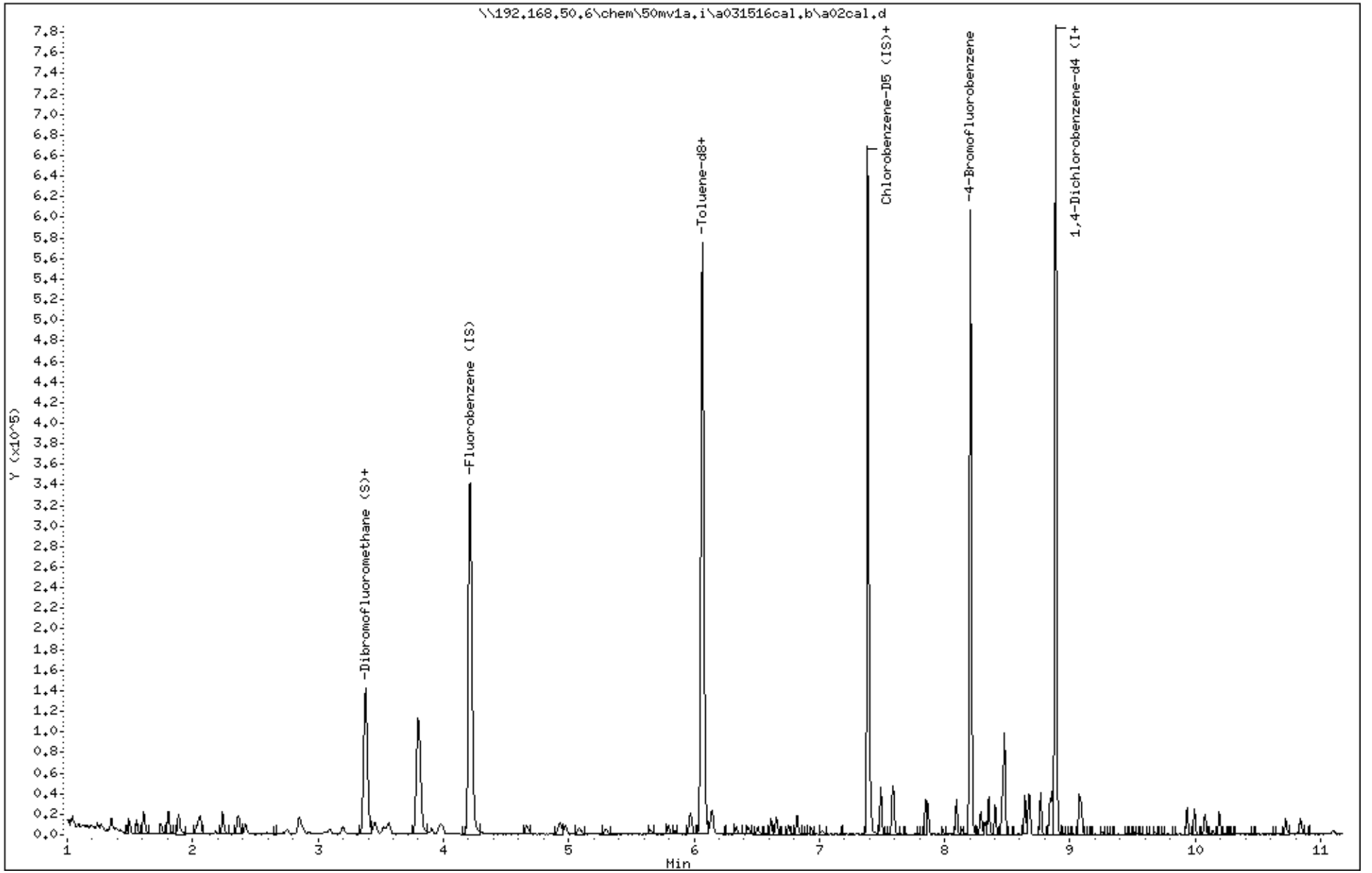
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

NI: Indicates that the peak was not integrated at all by the computer software.
:
WP: Indicates that the wrong peak was chosen by the data system.

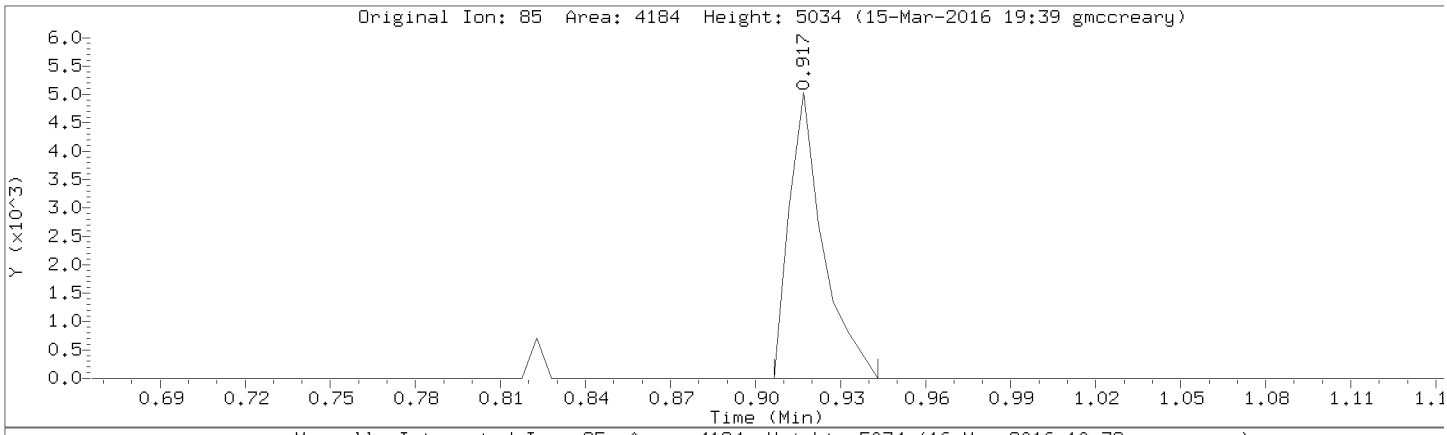
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a02cal.d
Date : 15-MAR-2016 18:19
Client ID: 8260-CAL2,117041:0
Sample Info: 8260-CAL2,117041:0
Purge Volume: 5.0
Column phase: DB-624

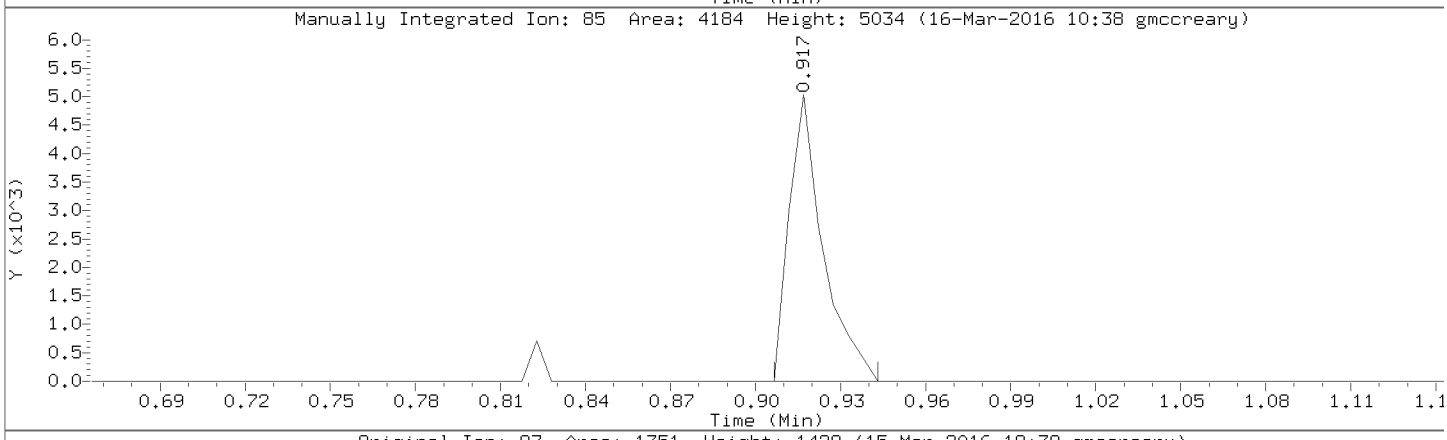
Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18

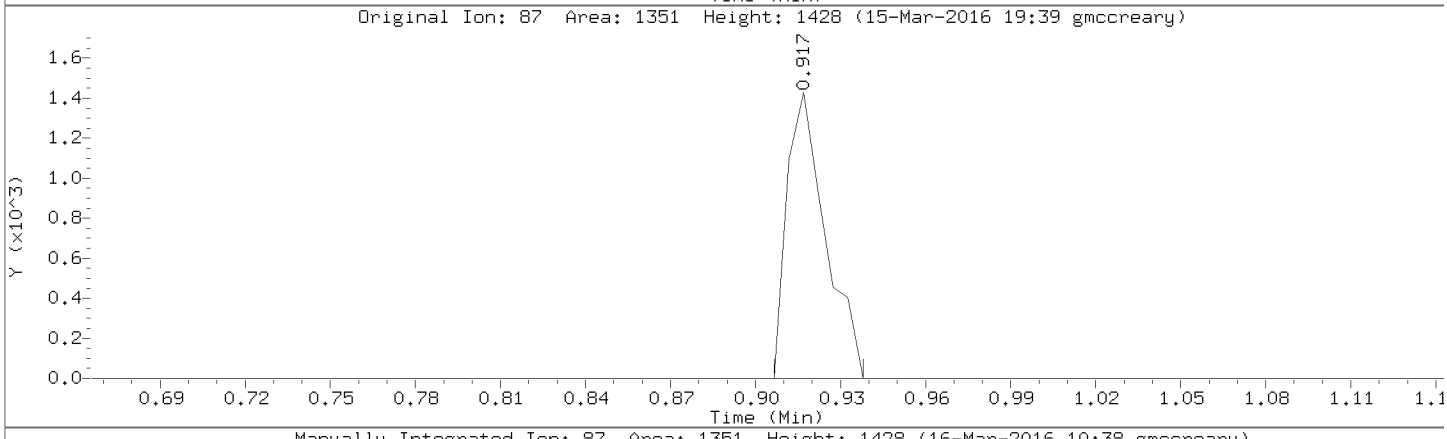


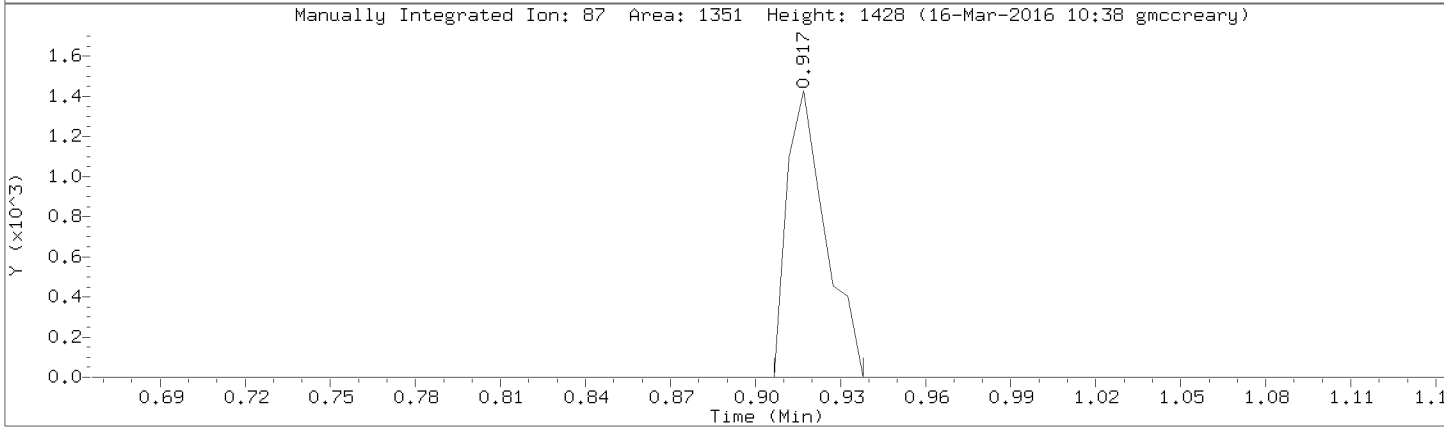
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8

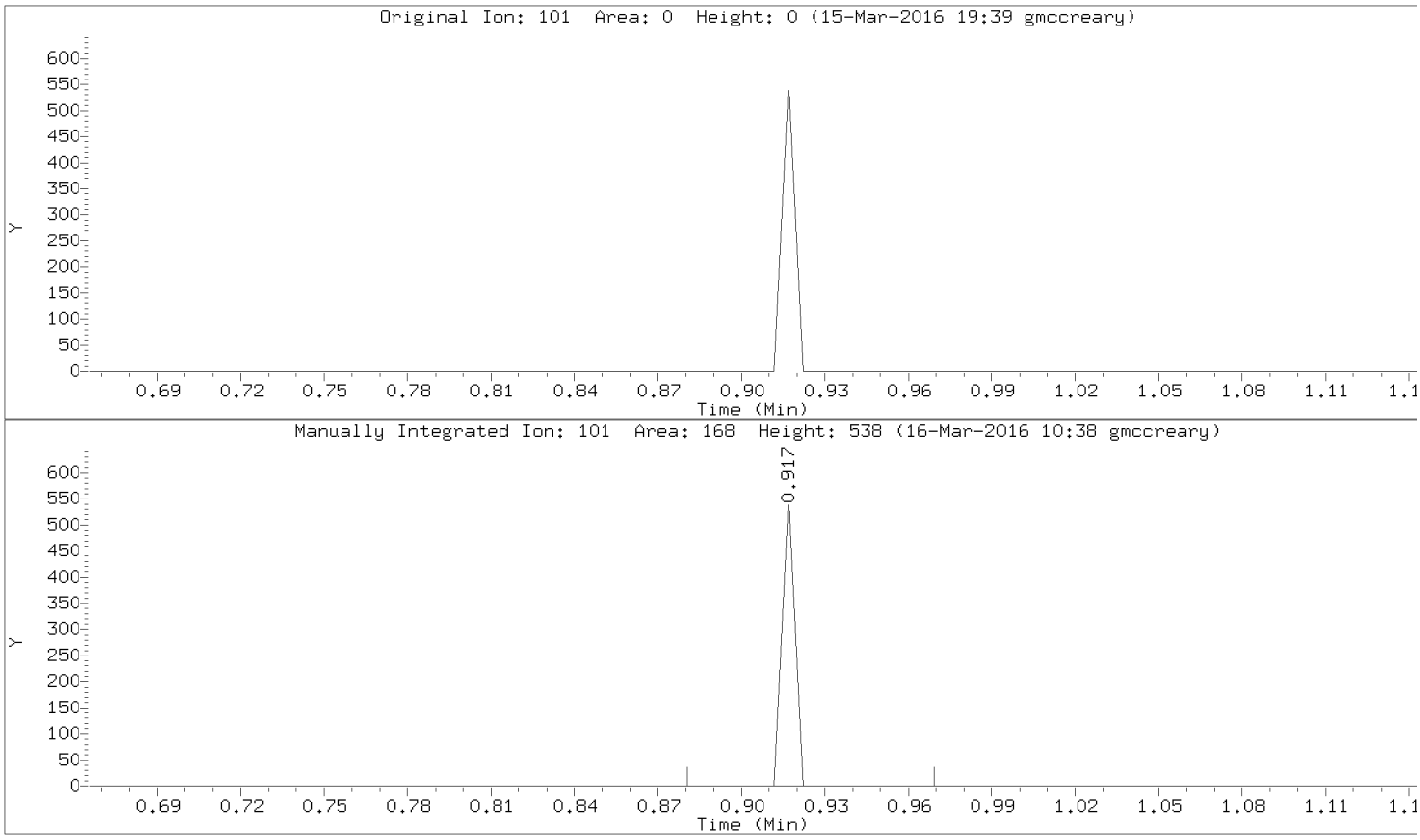






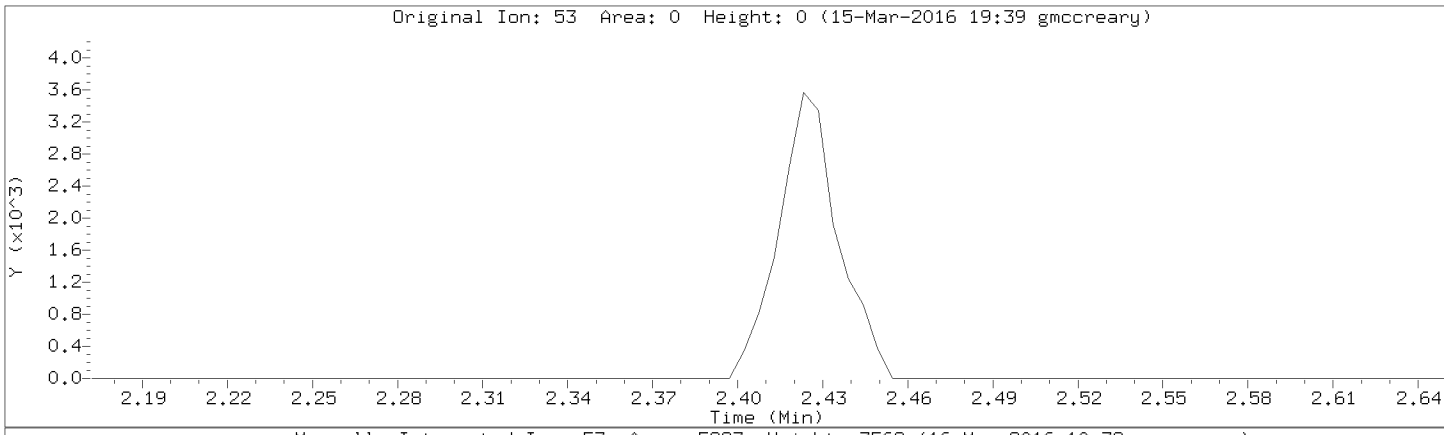


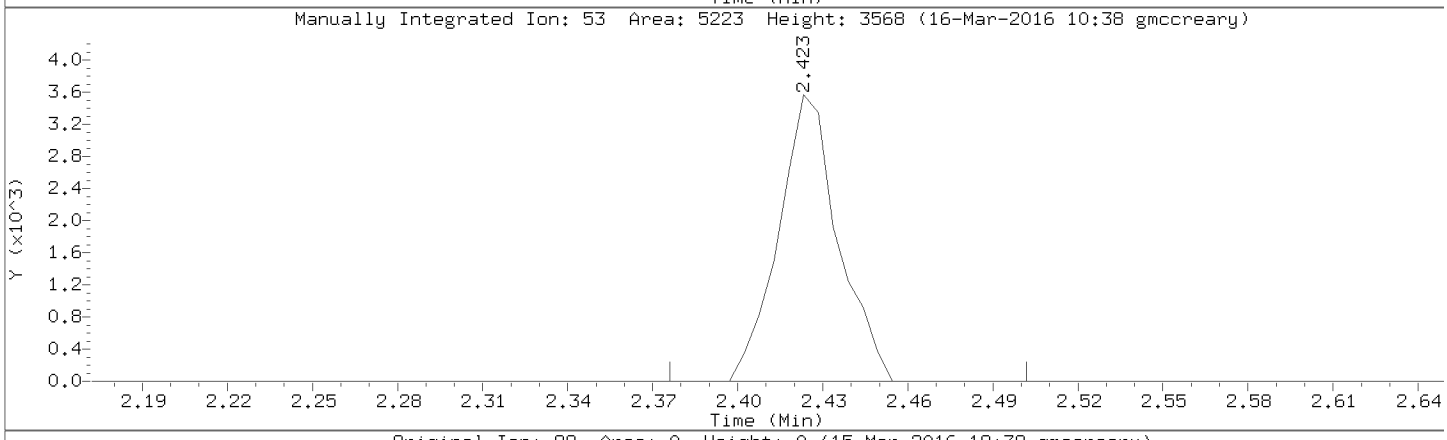
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

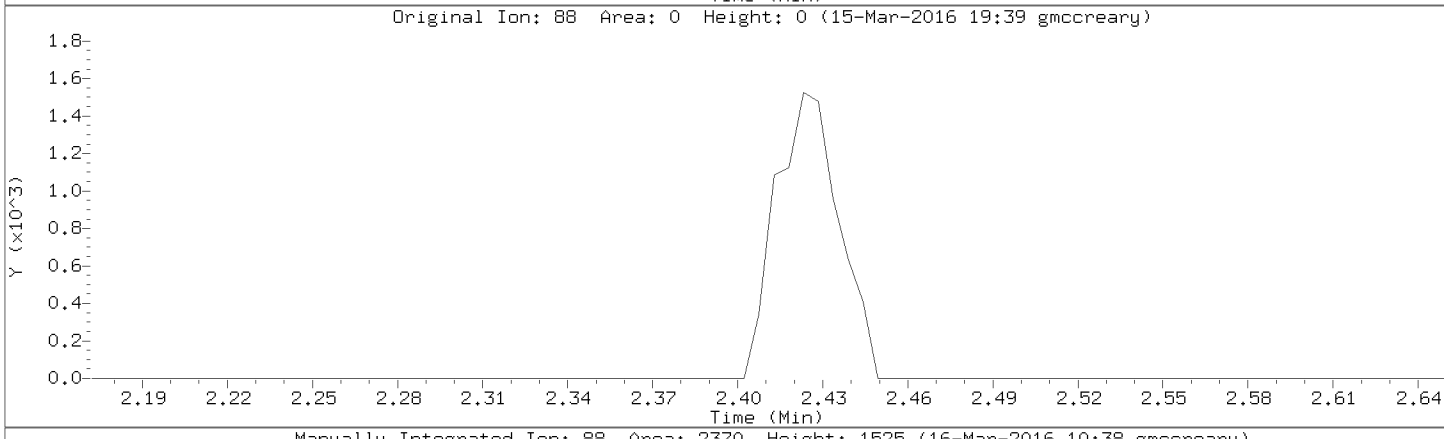


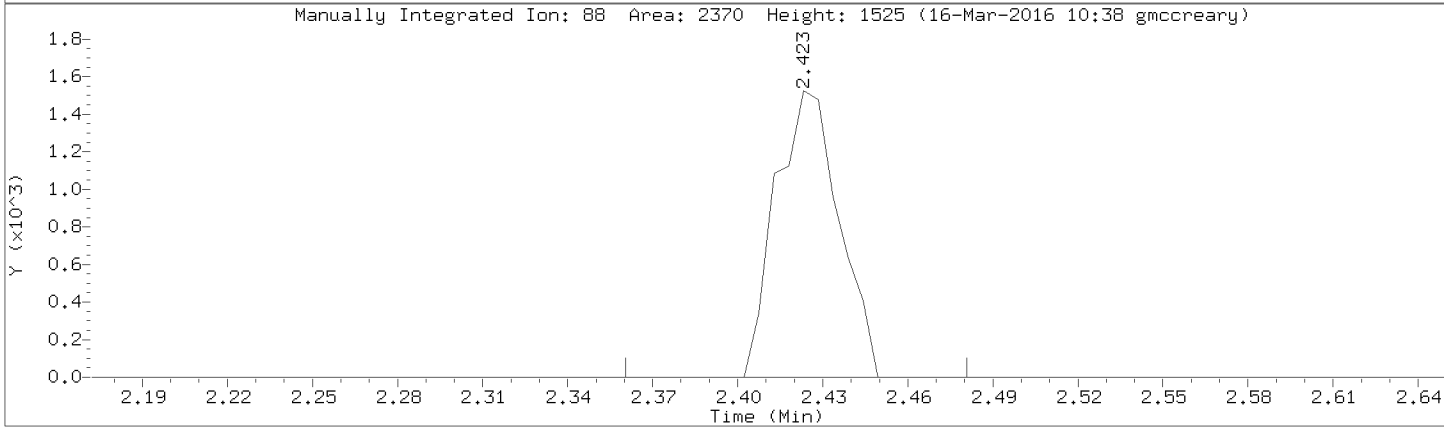
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8

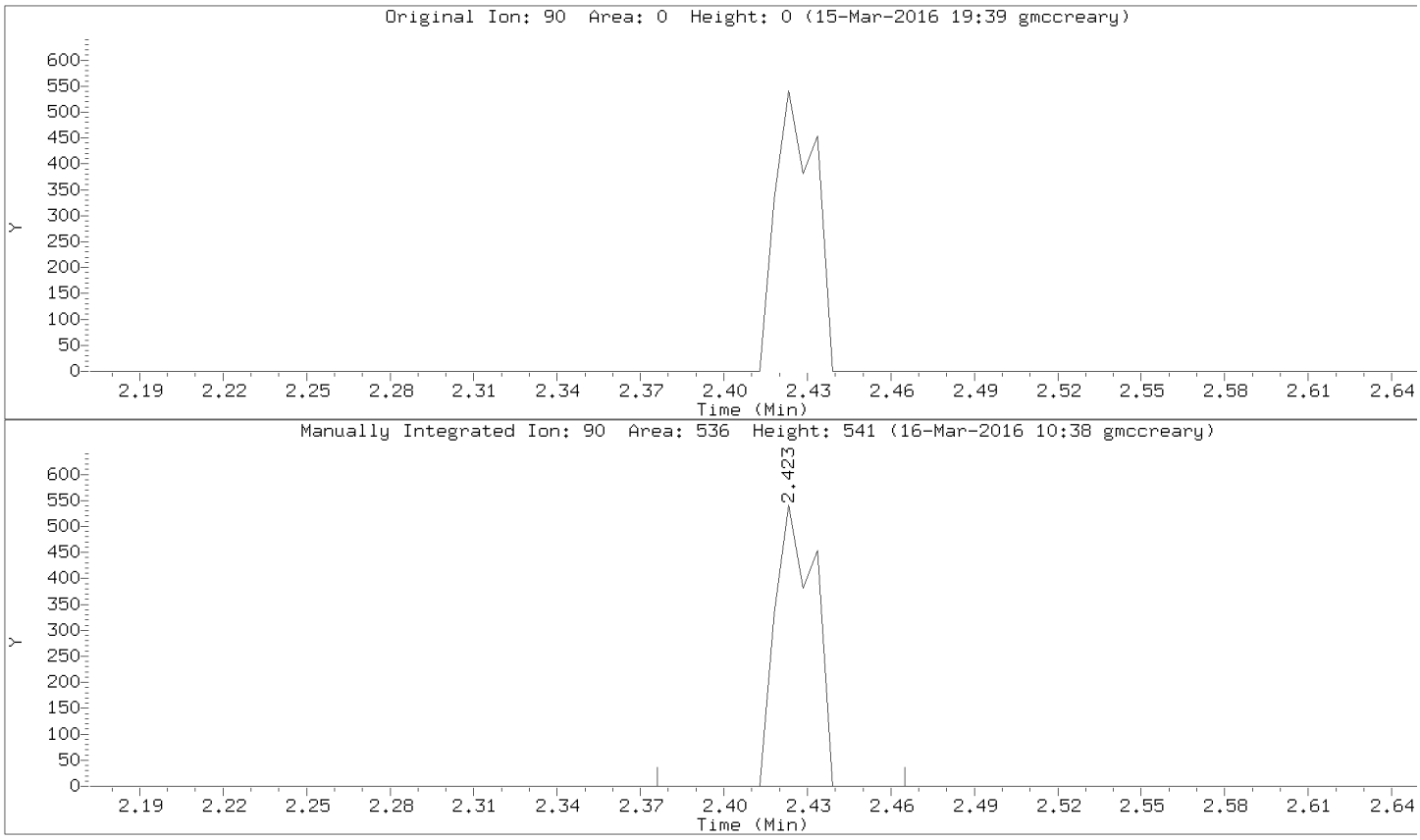






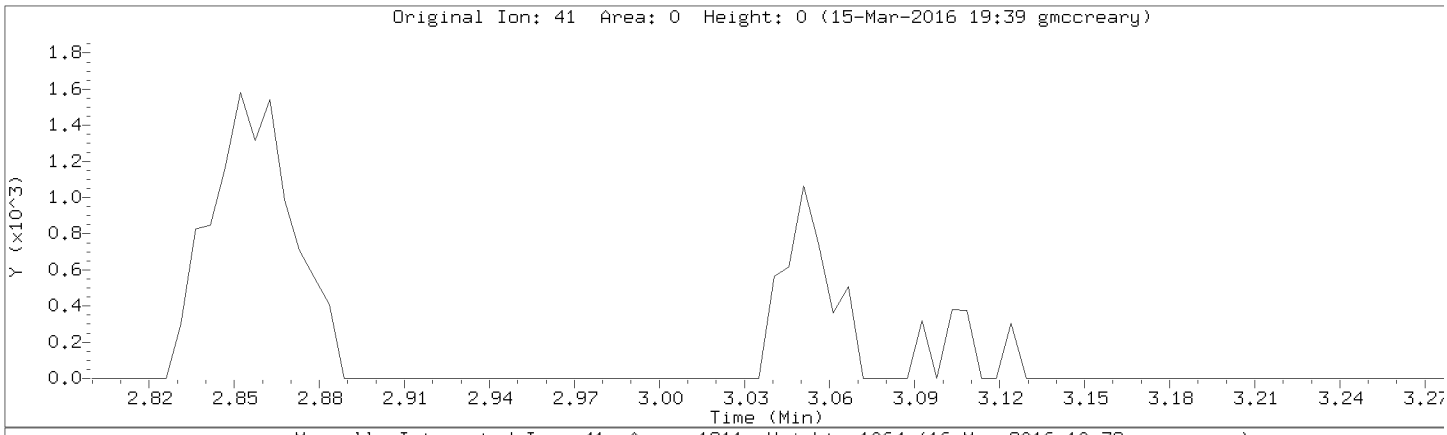


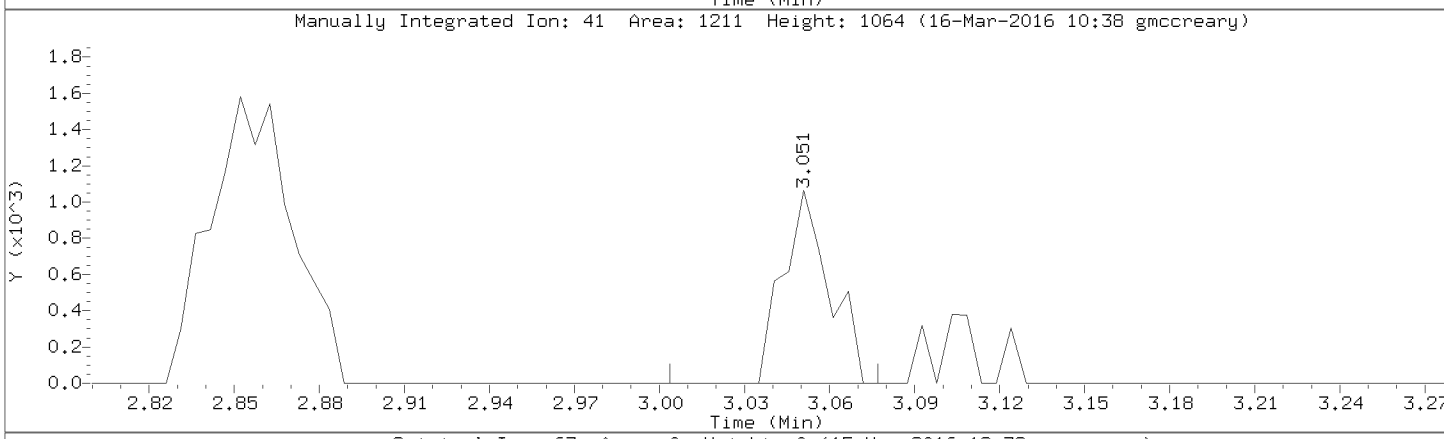
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

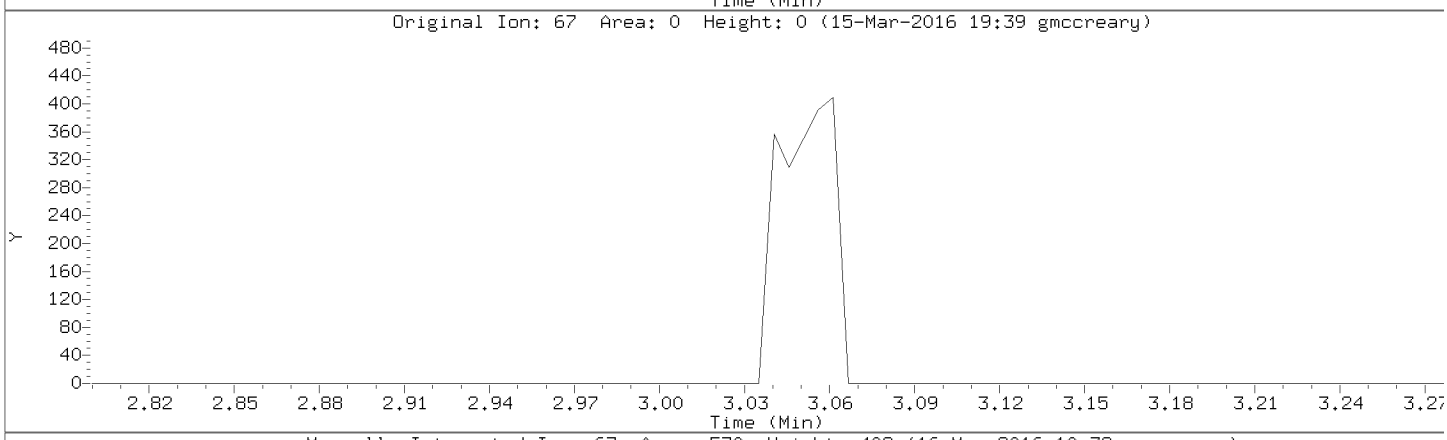


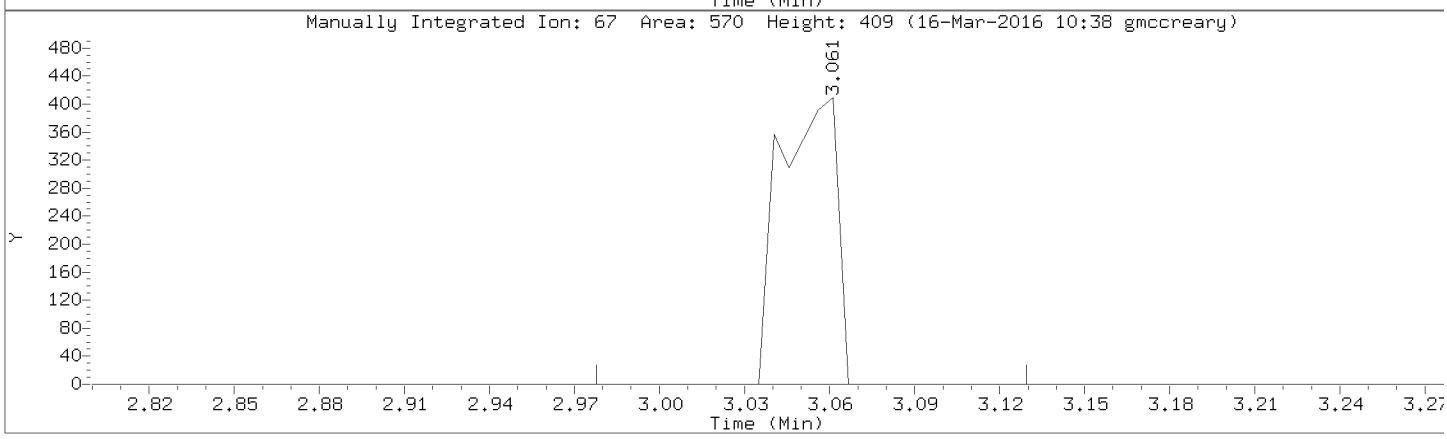
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7

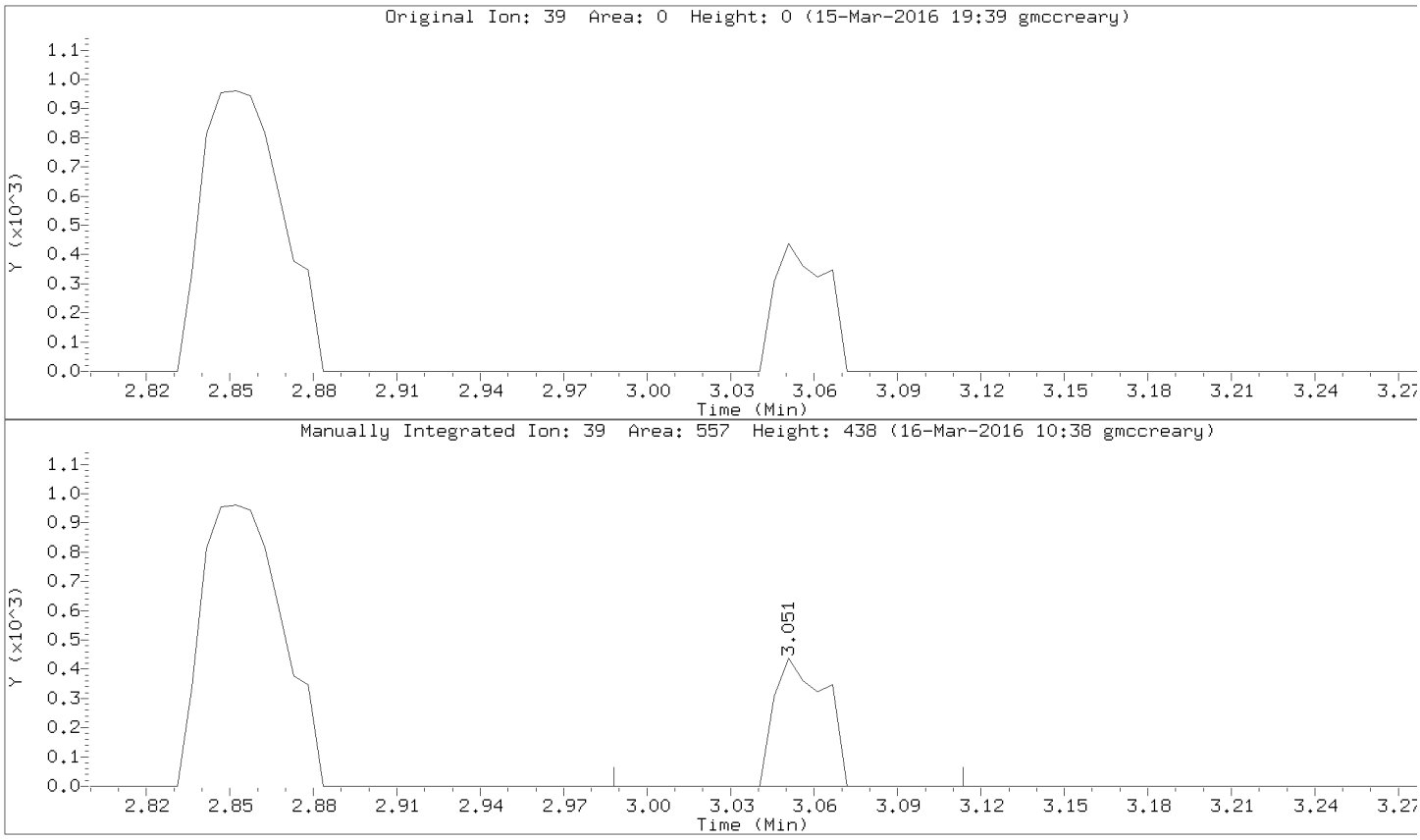






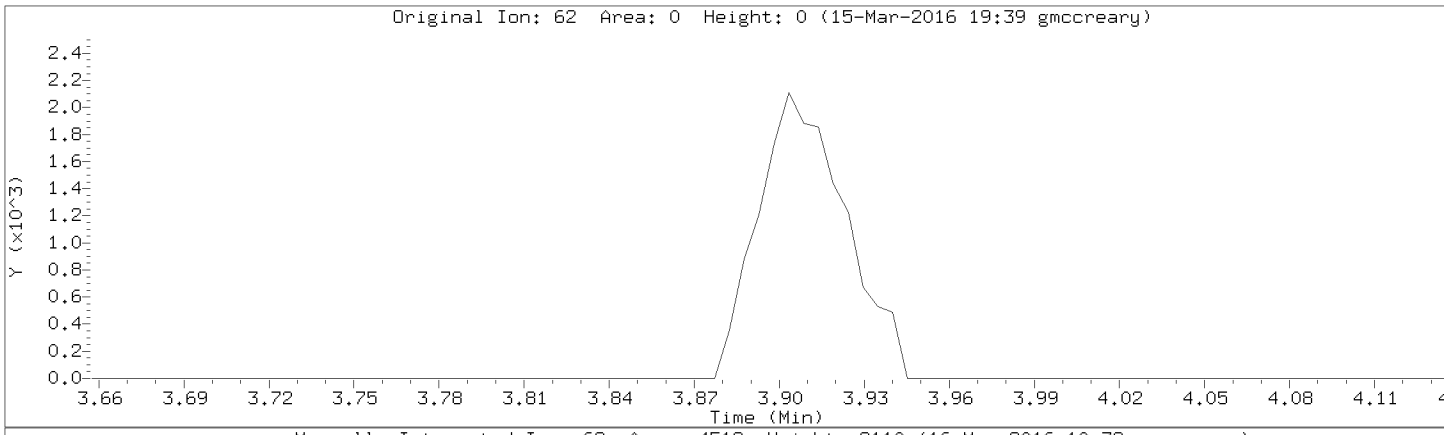


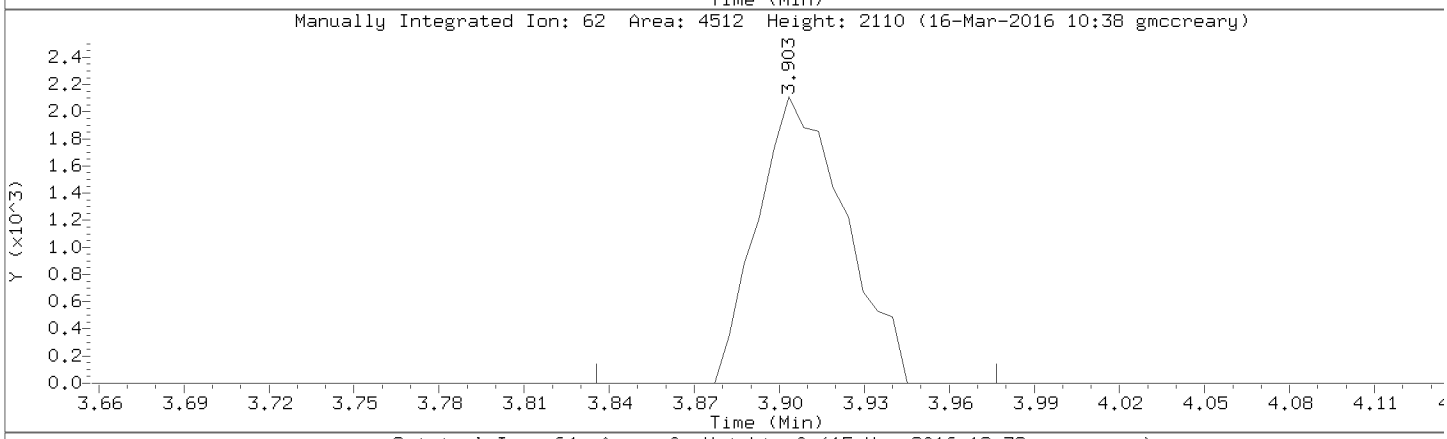
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

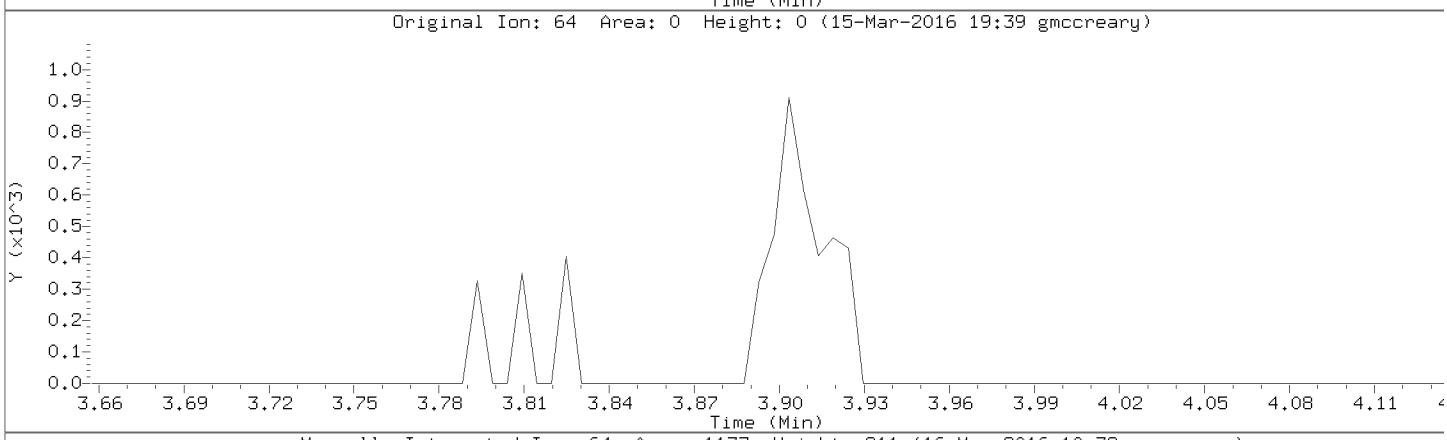


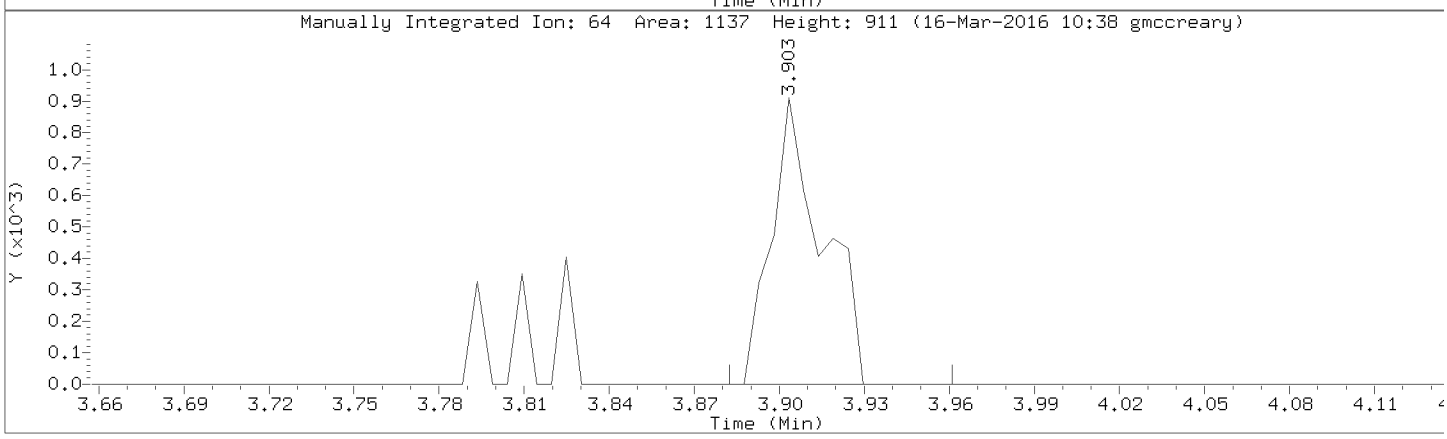
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

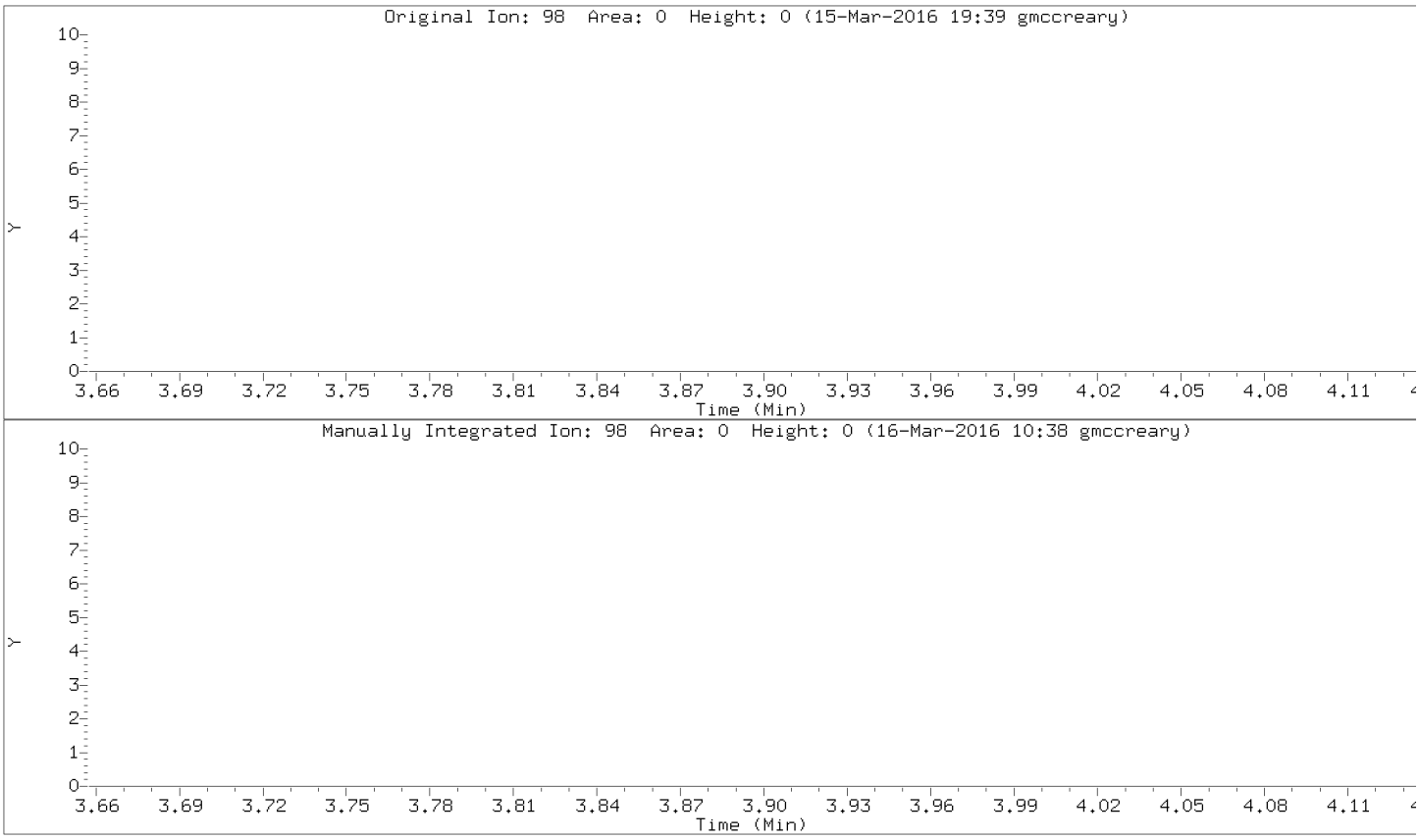






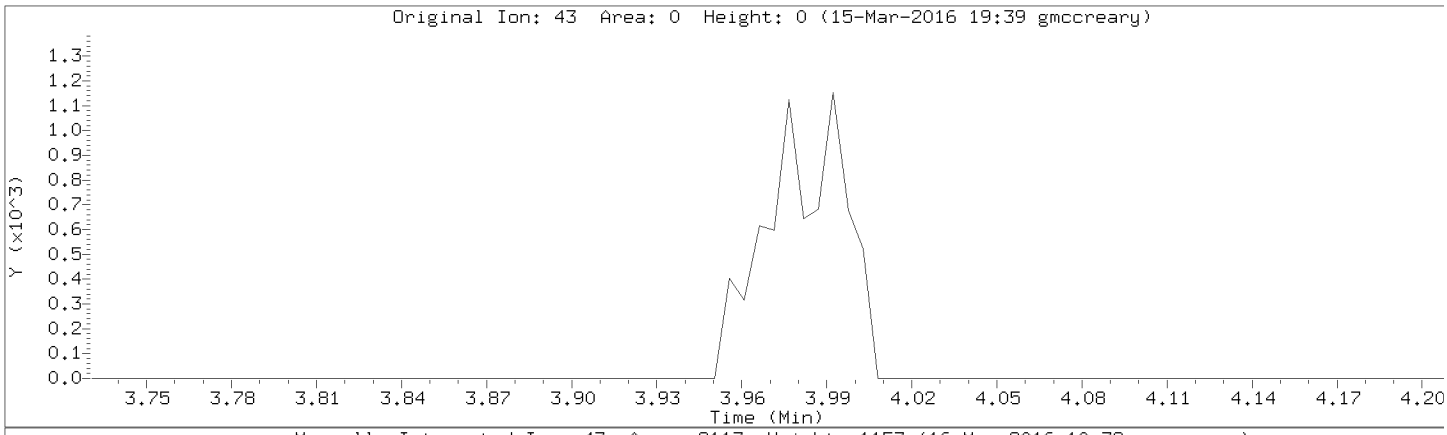


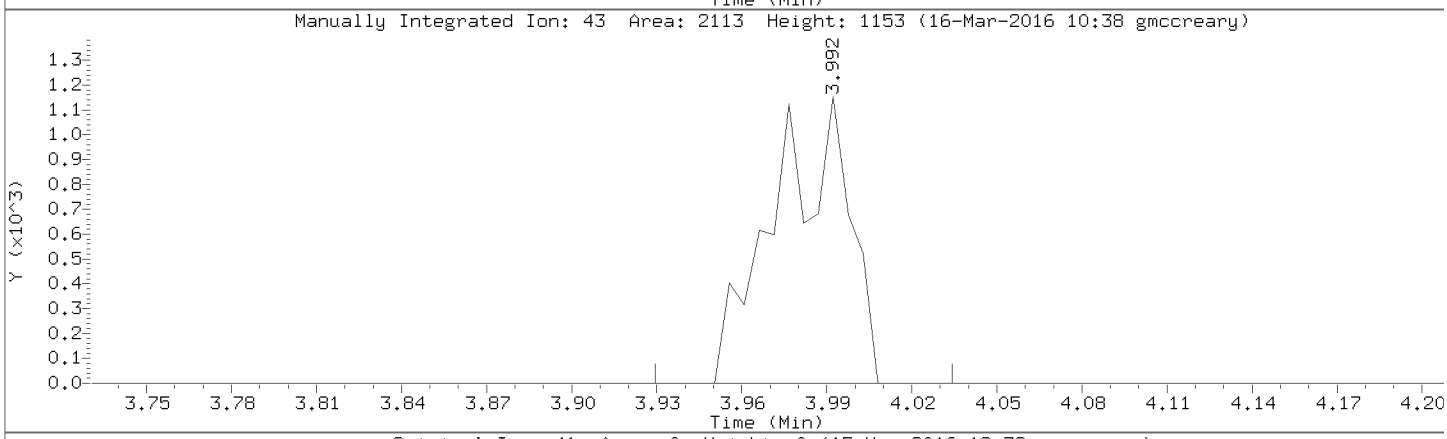
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

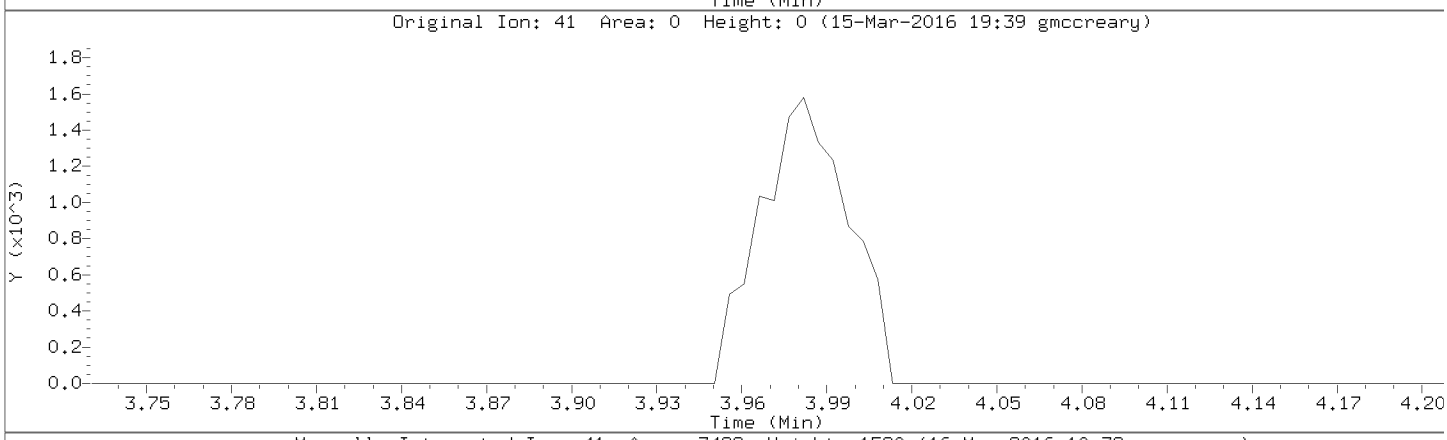


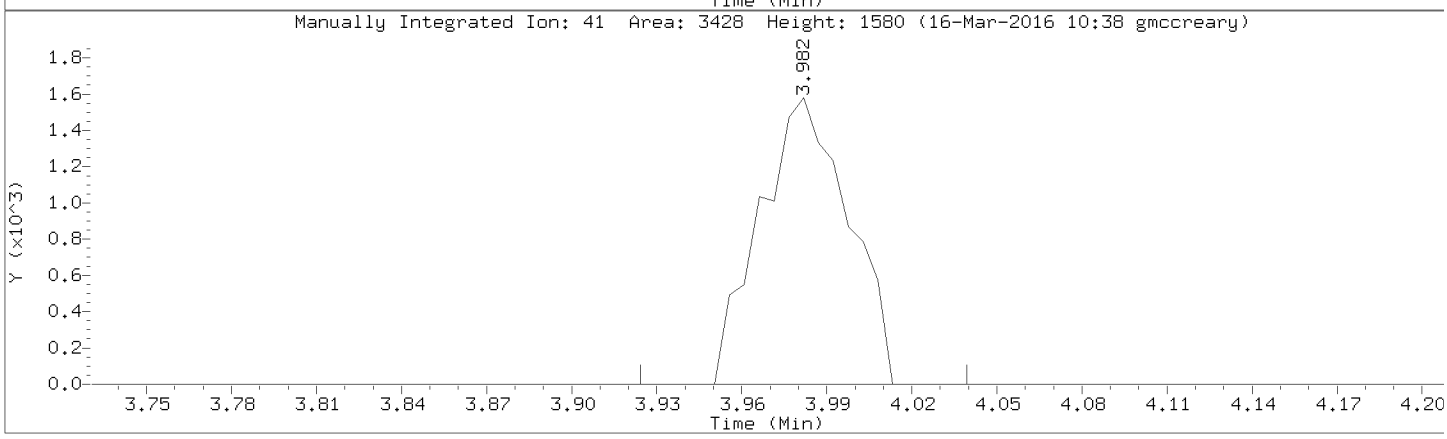
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

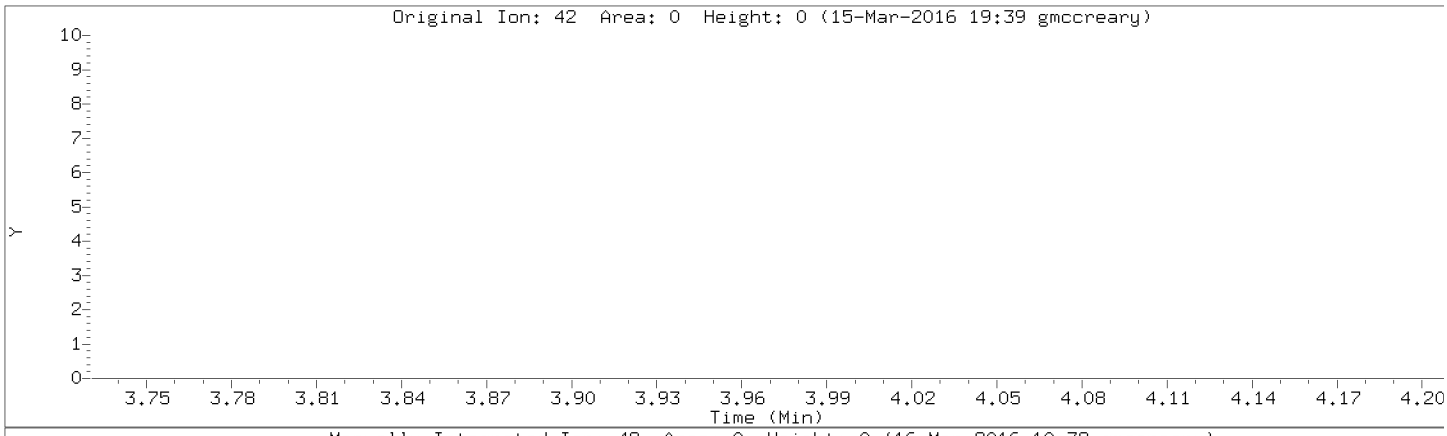


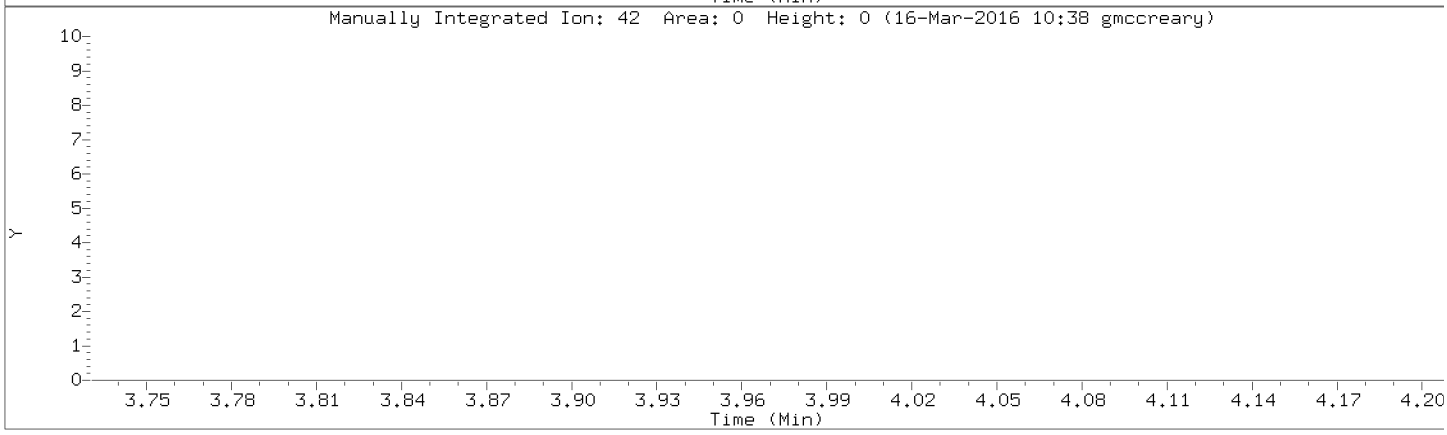






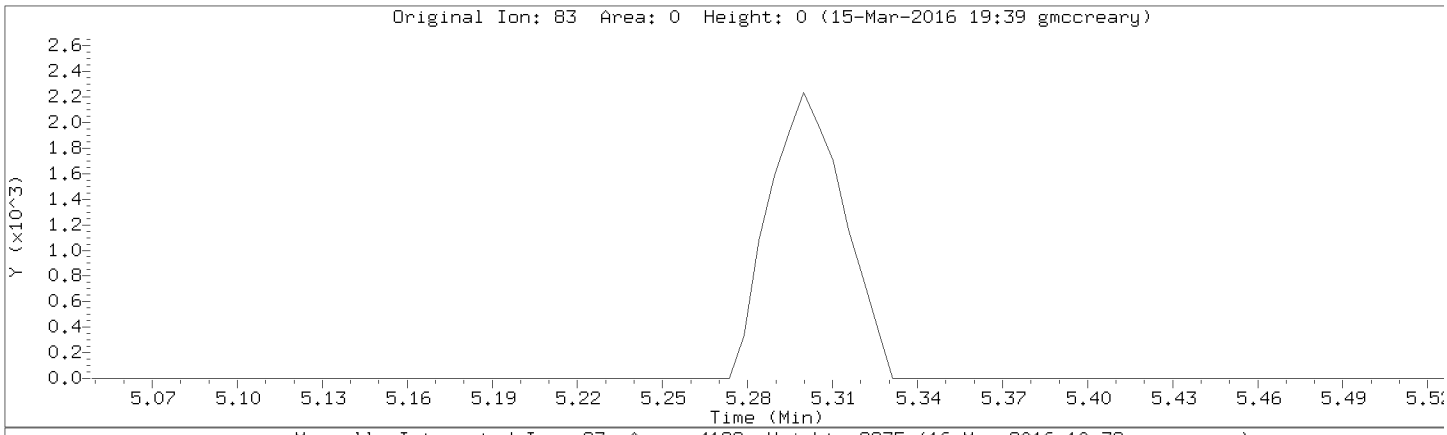
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

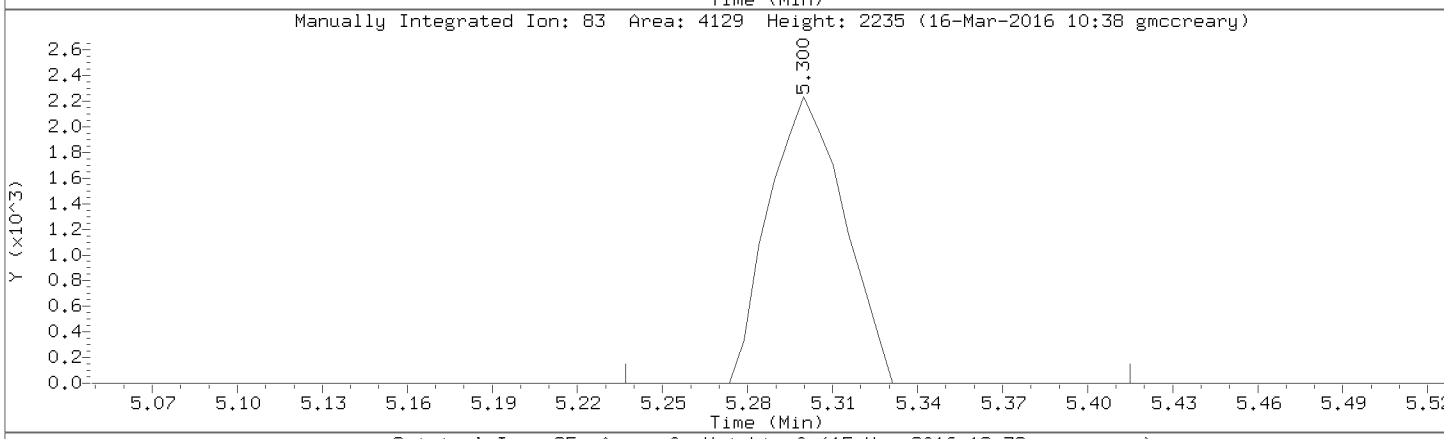


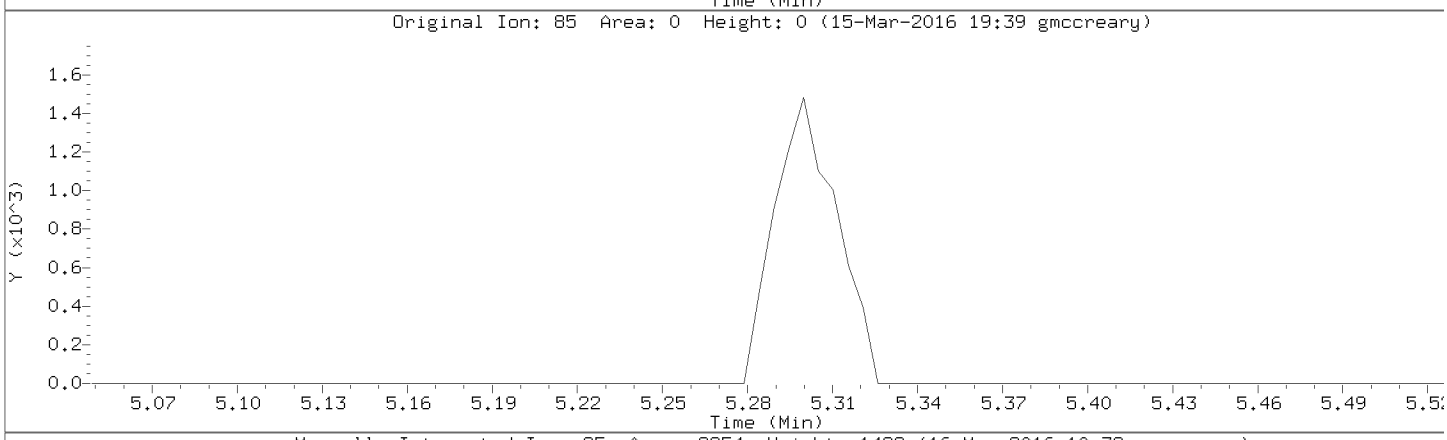


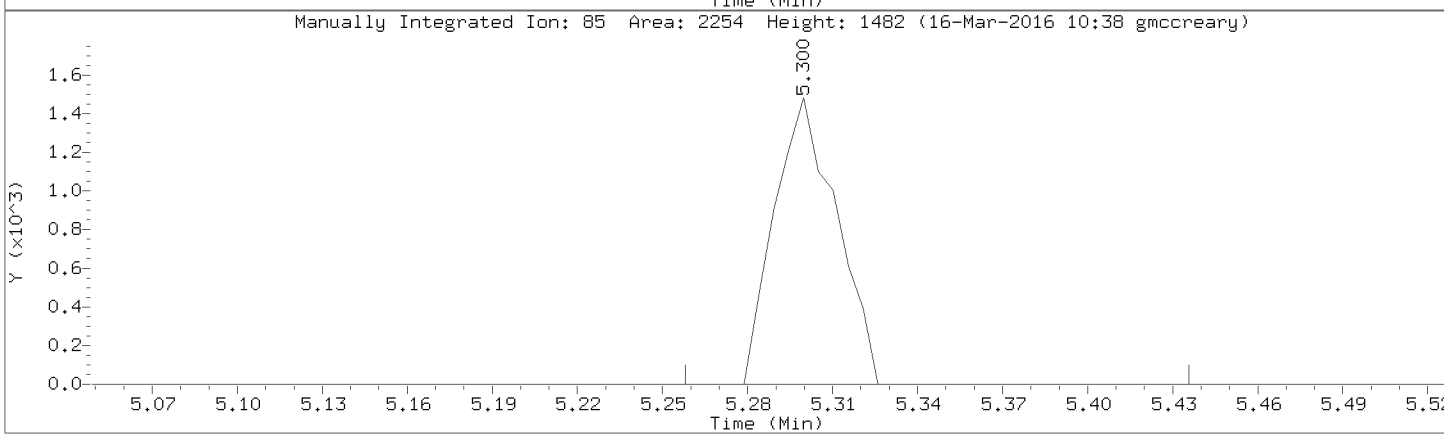
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

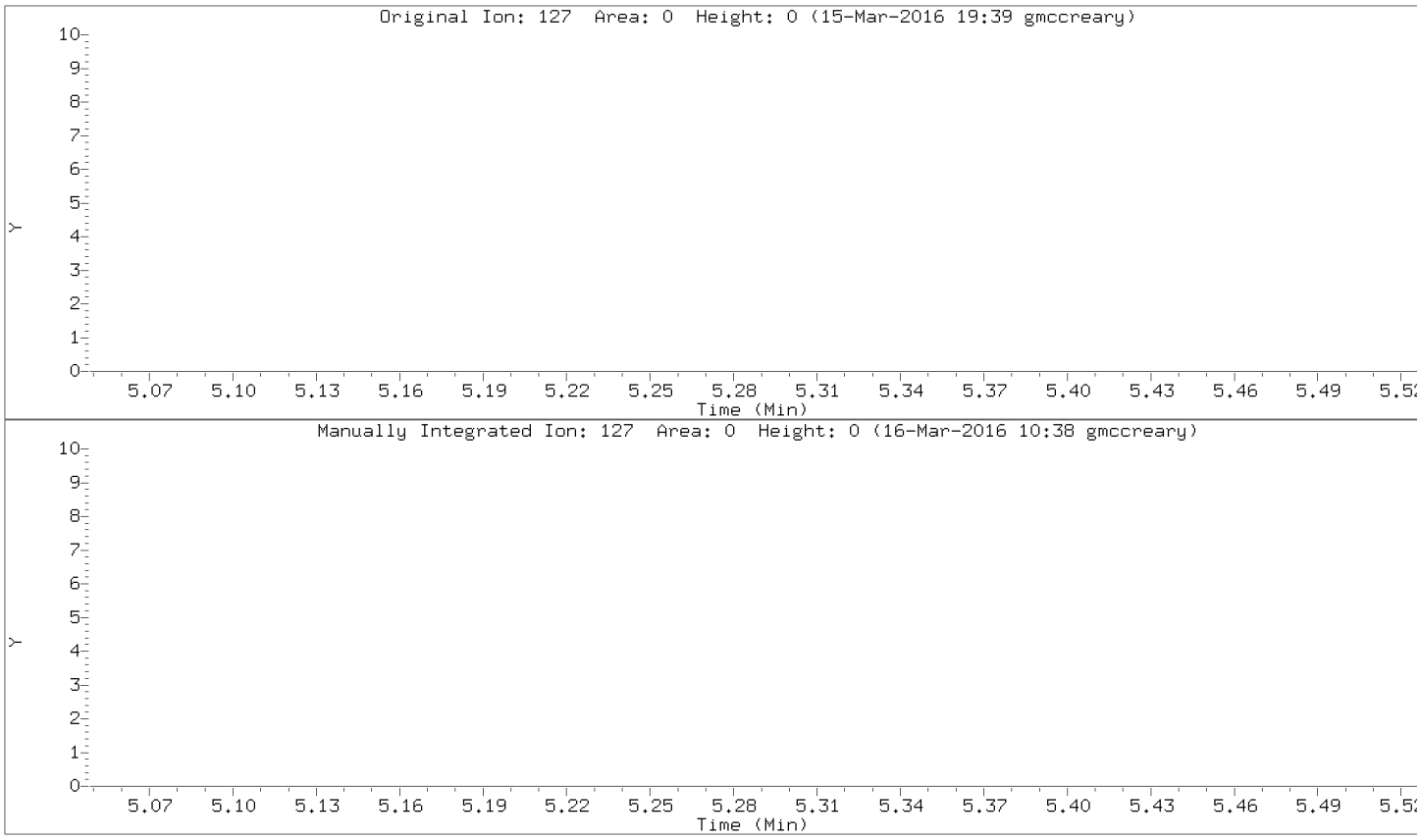






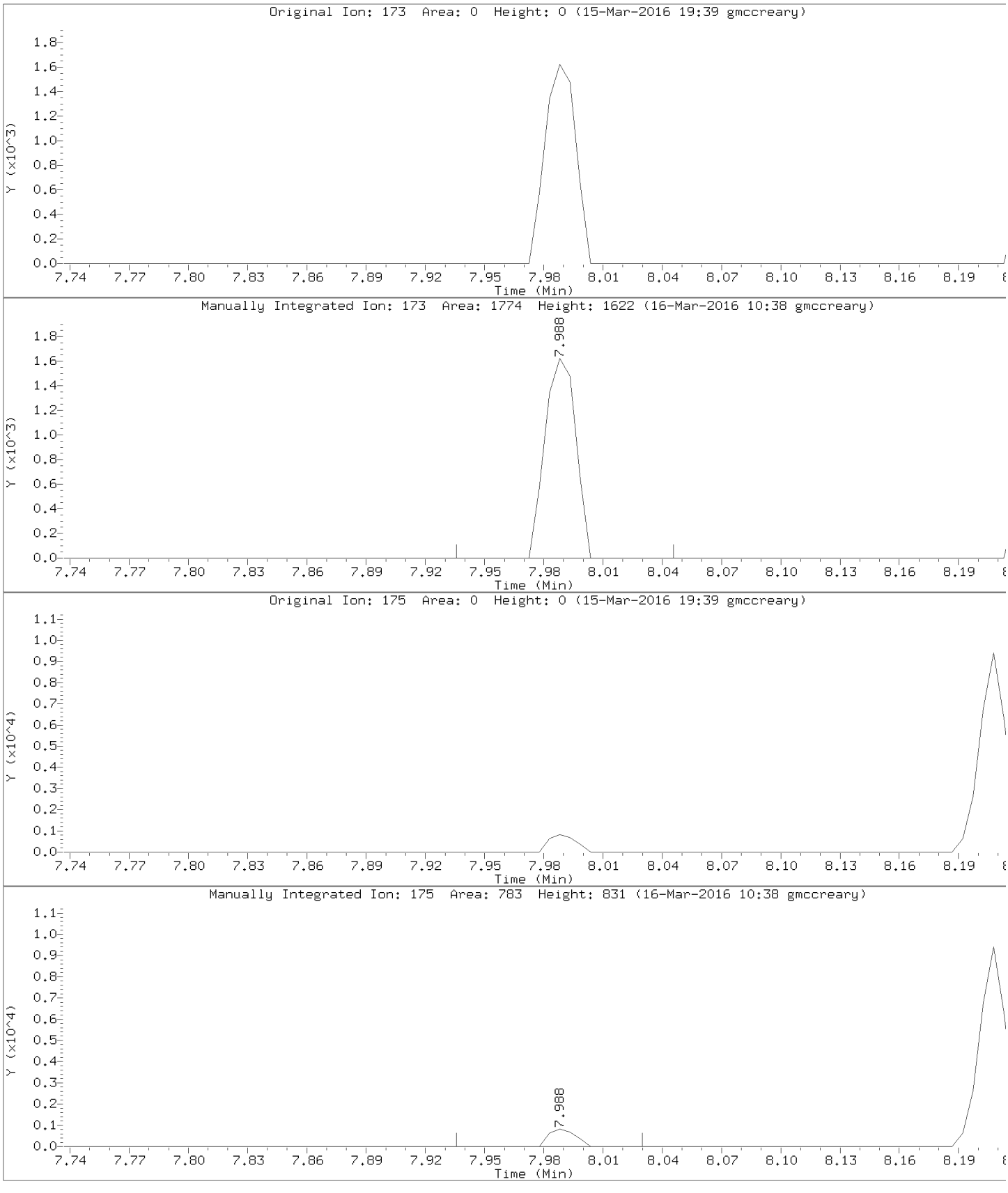


Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

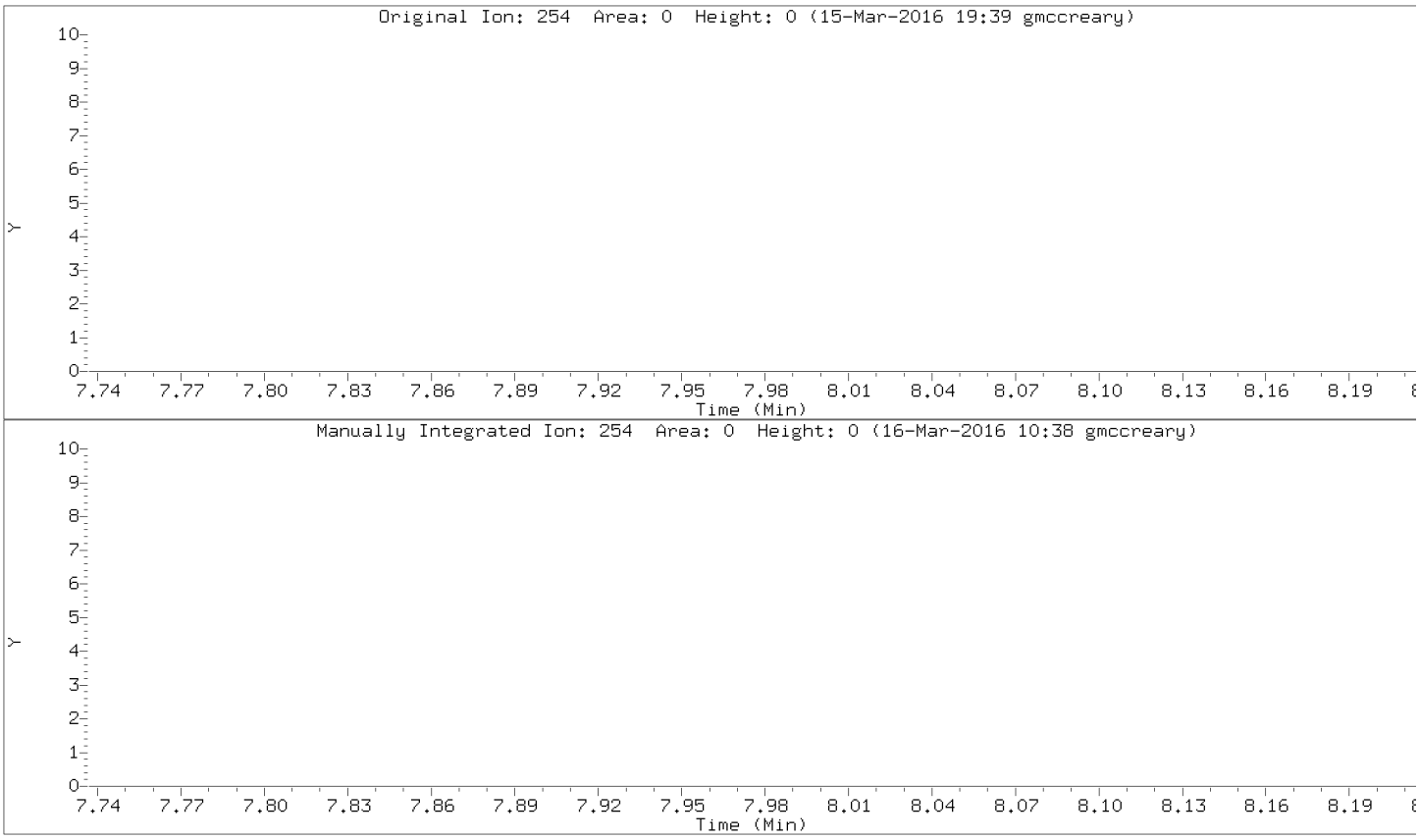


Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

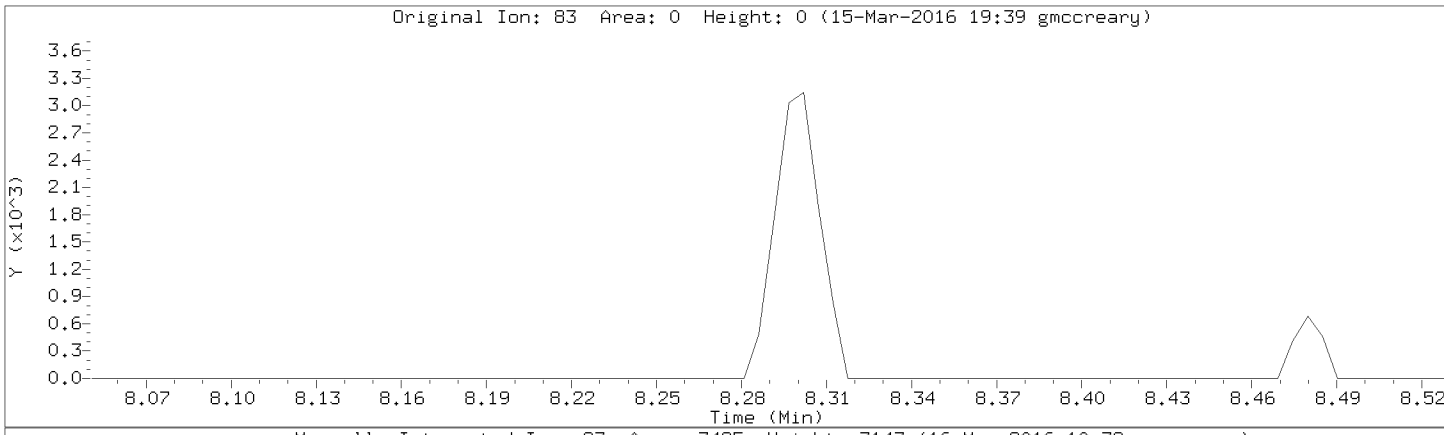


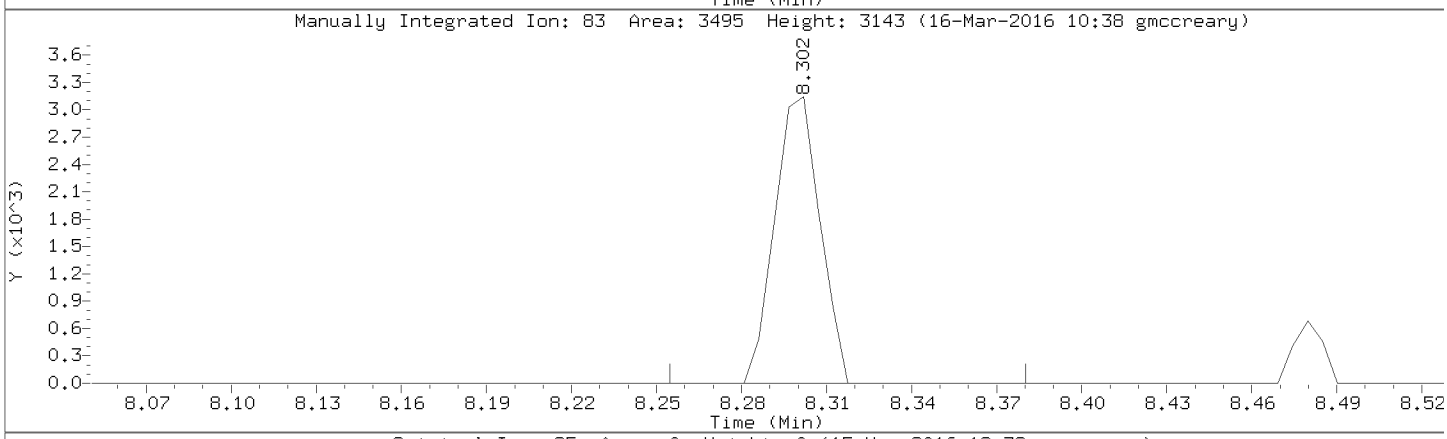
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

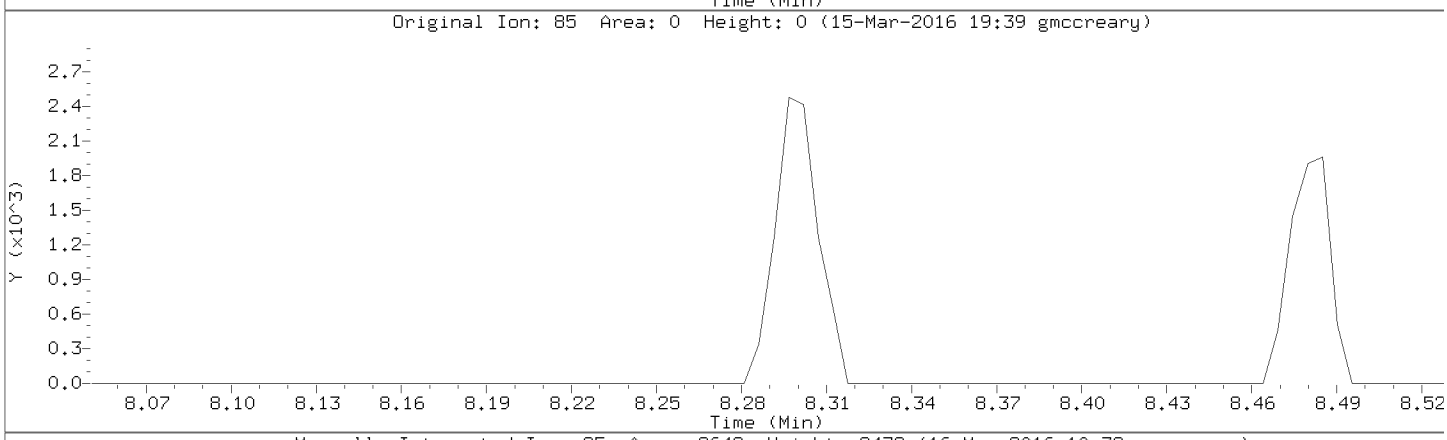


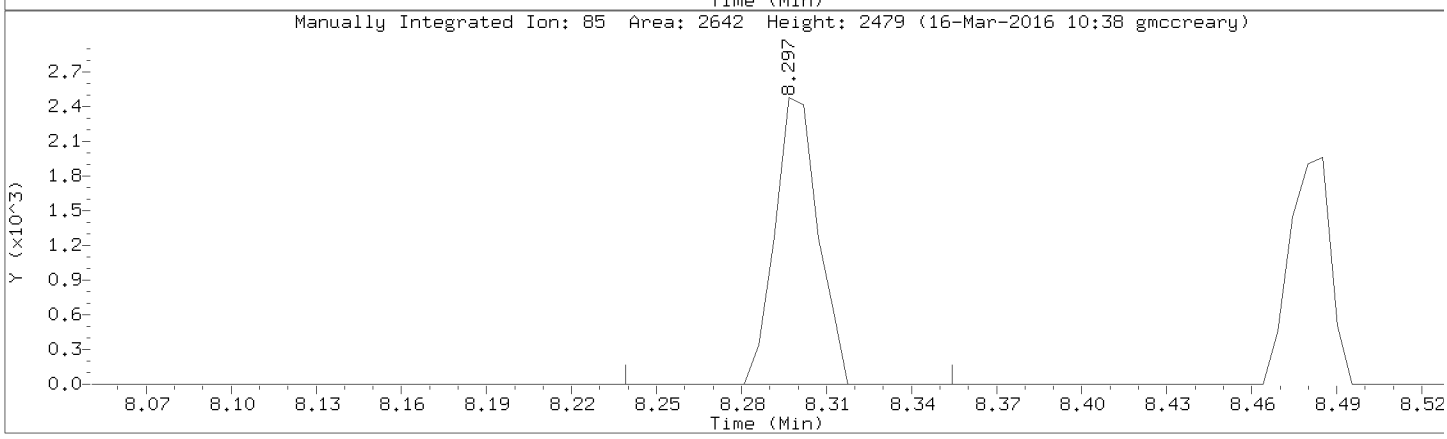
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5

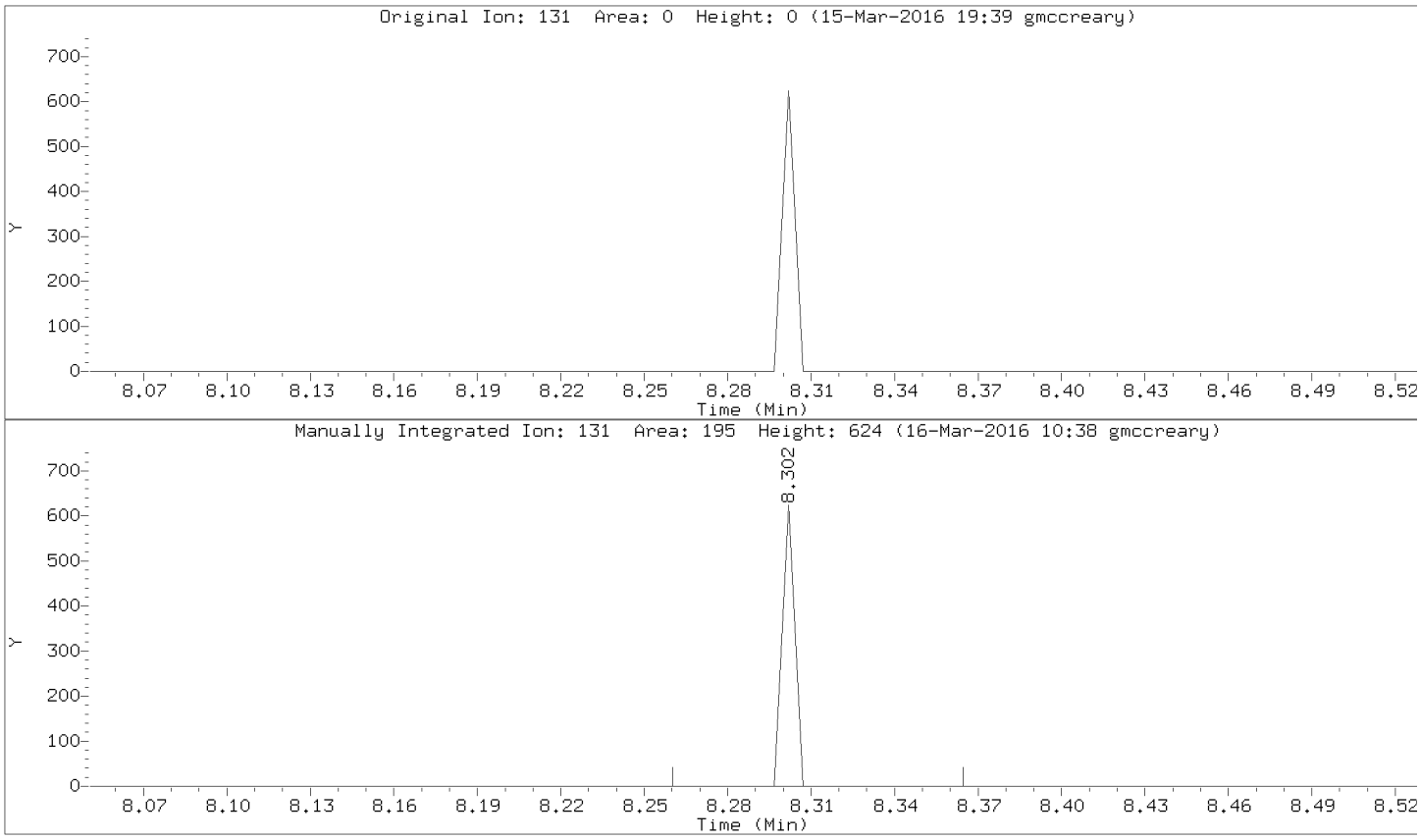






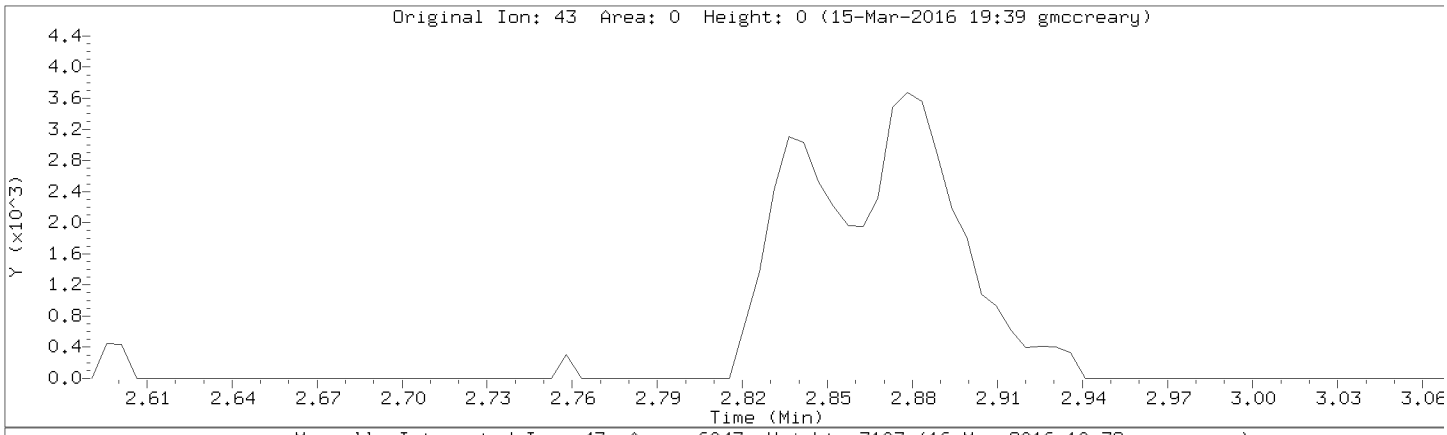


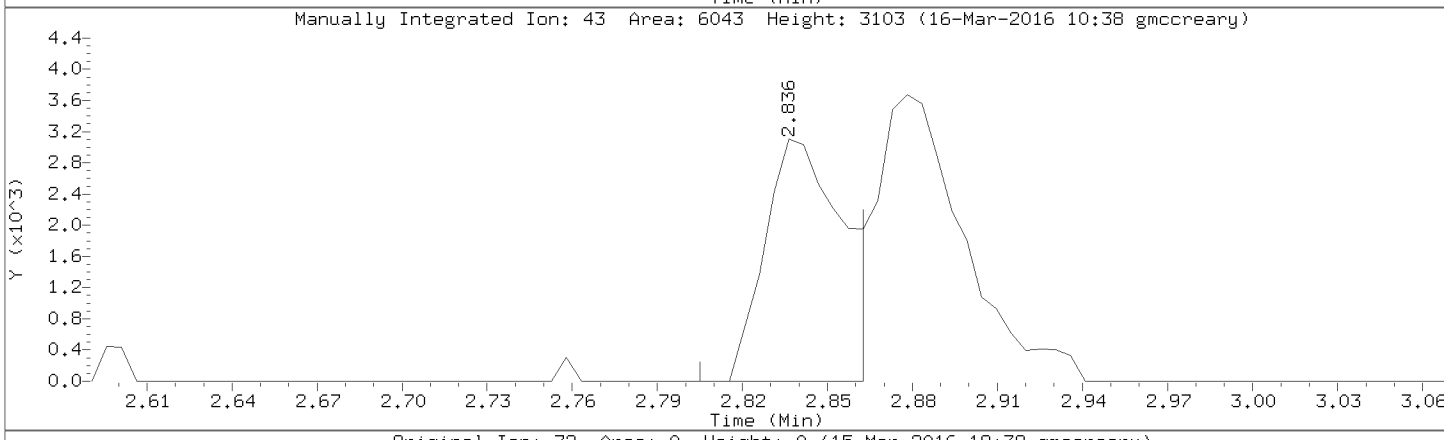
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

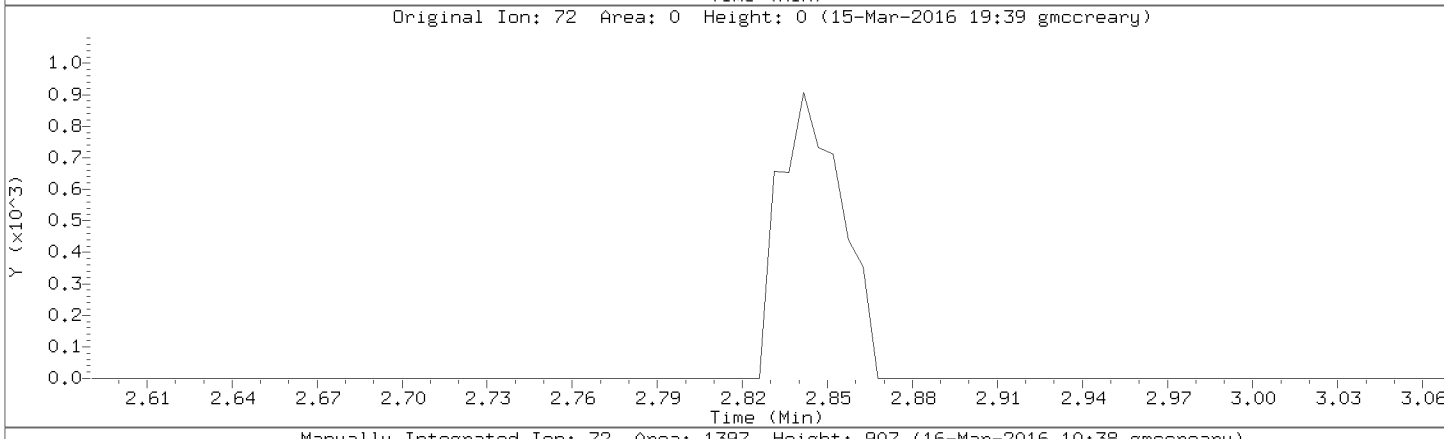


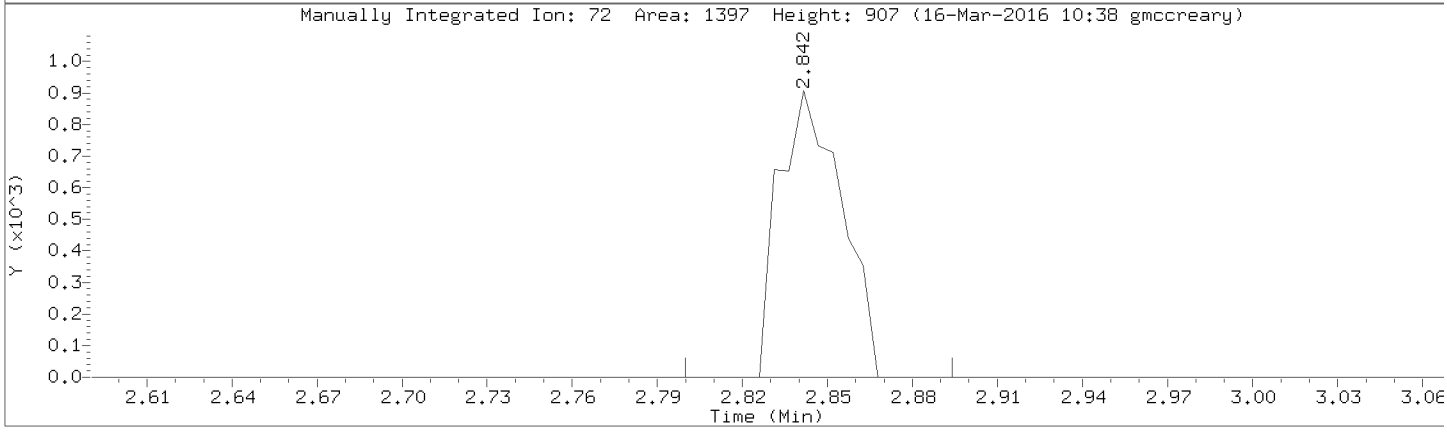
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: 2-Butanone Review Code:
CAS Number: 78-93-3

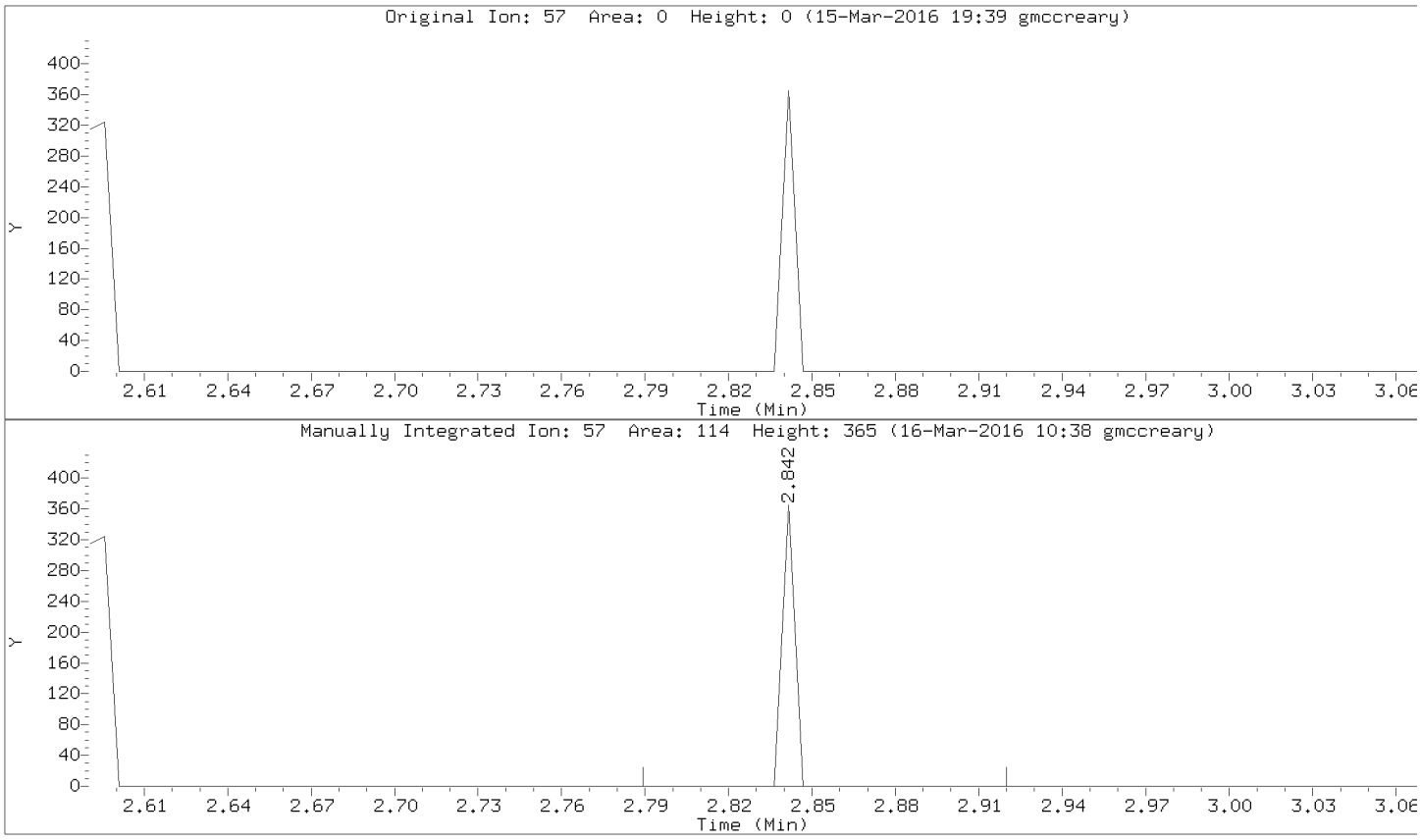






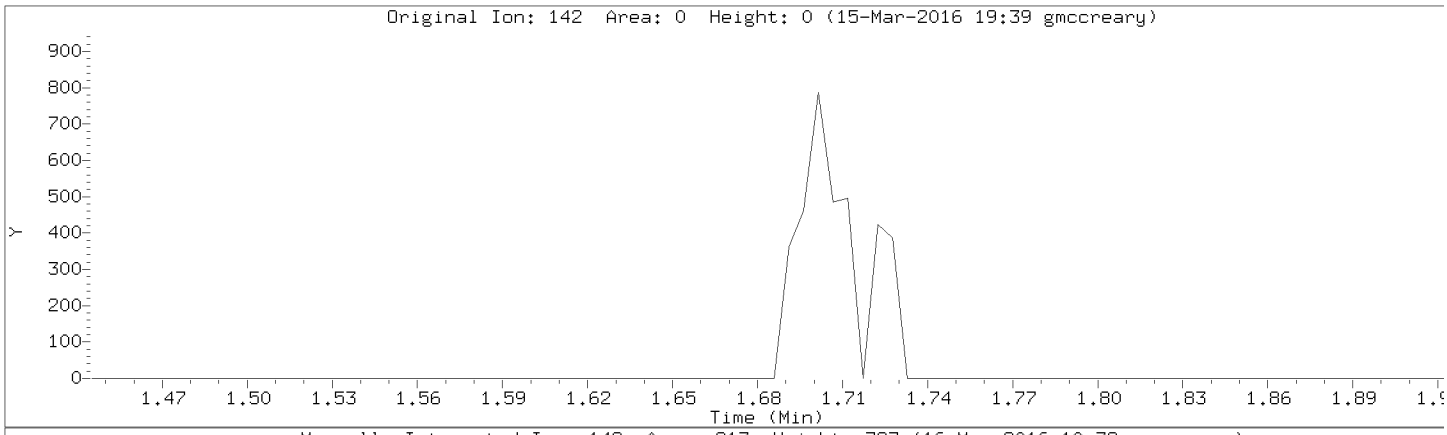


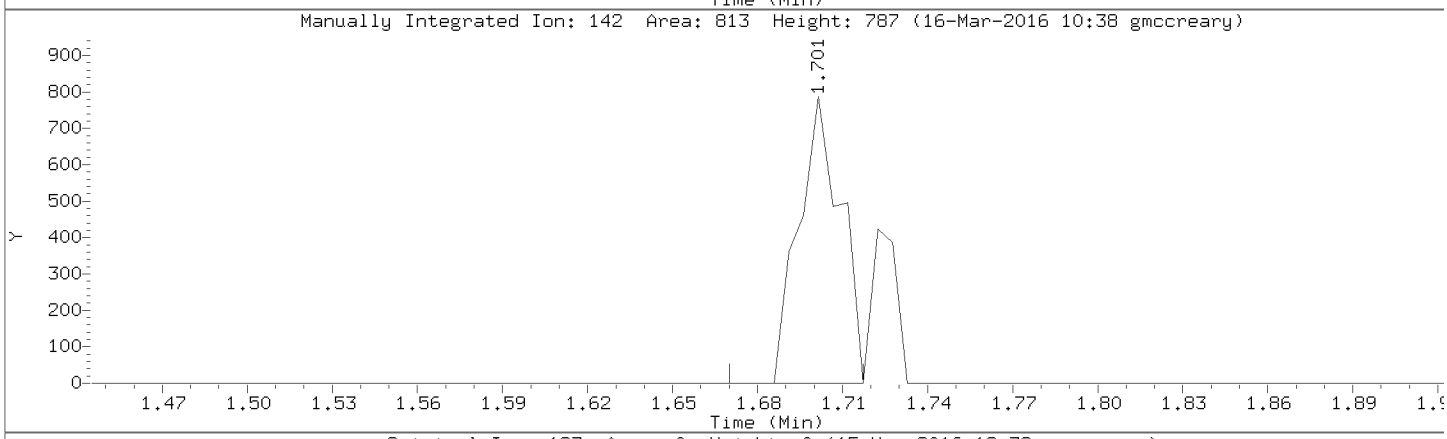
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

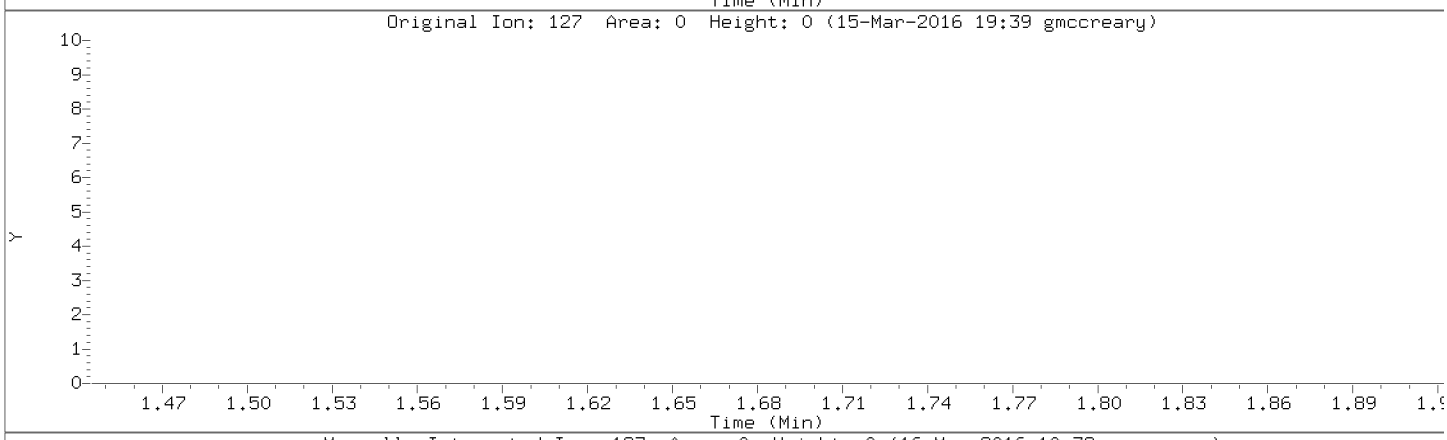


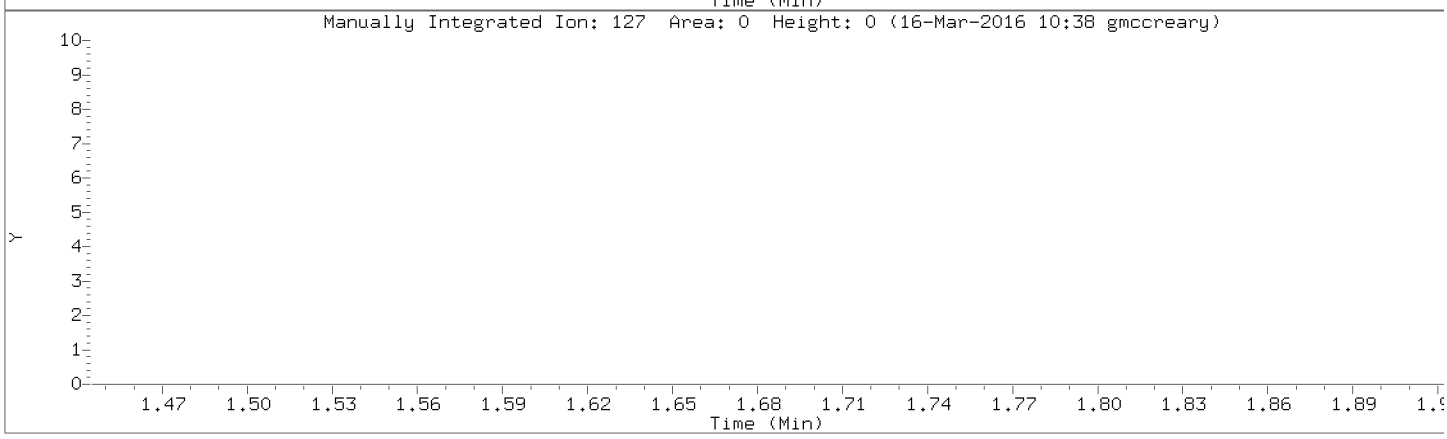
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Iodomethane Review Code: NI
CAS Number:



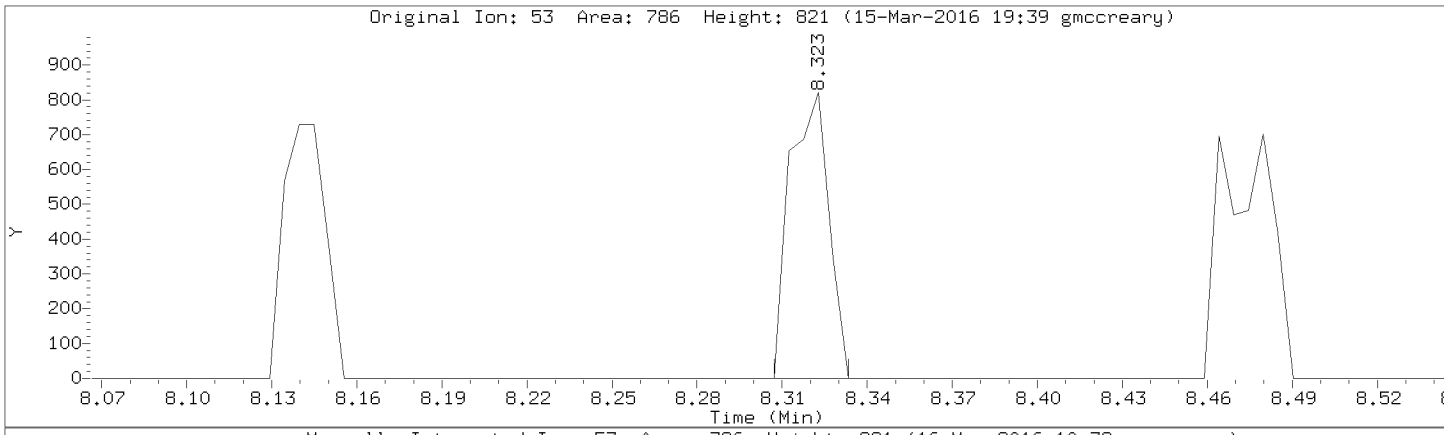


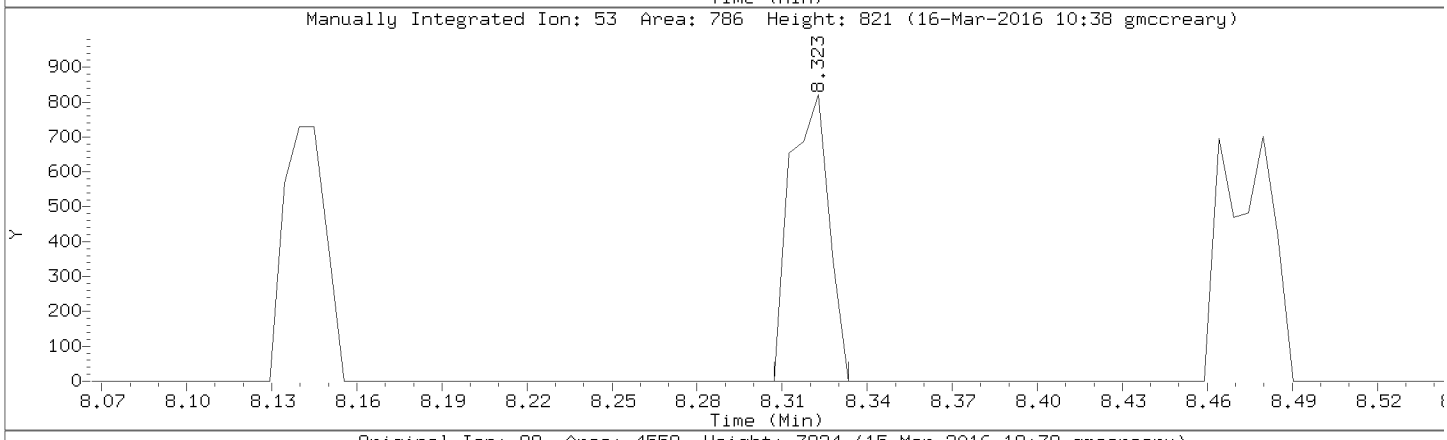


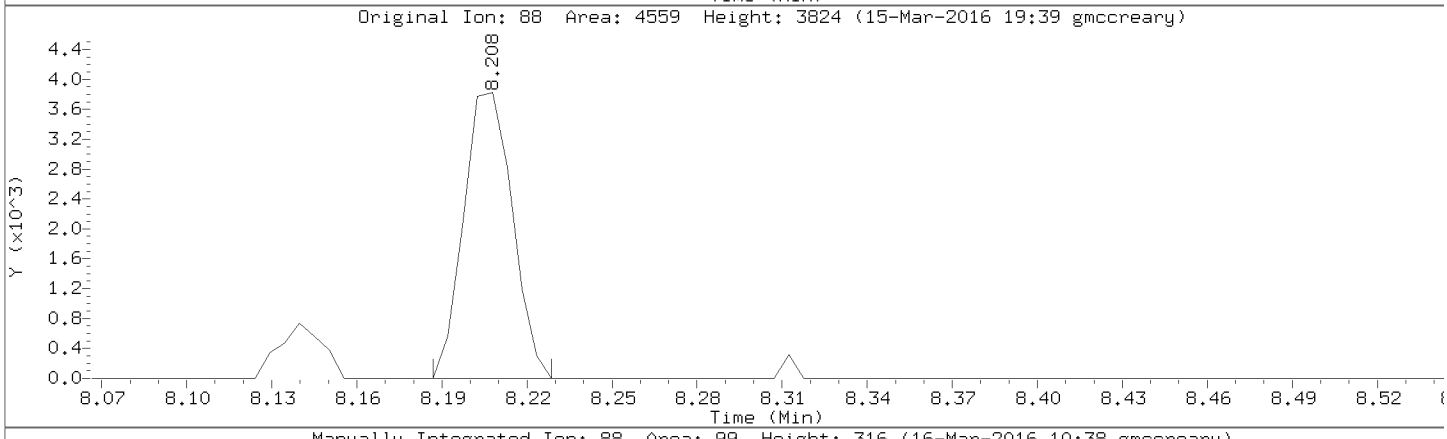


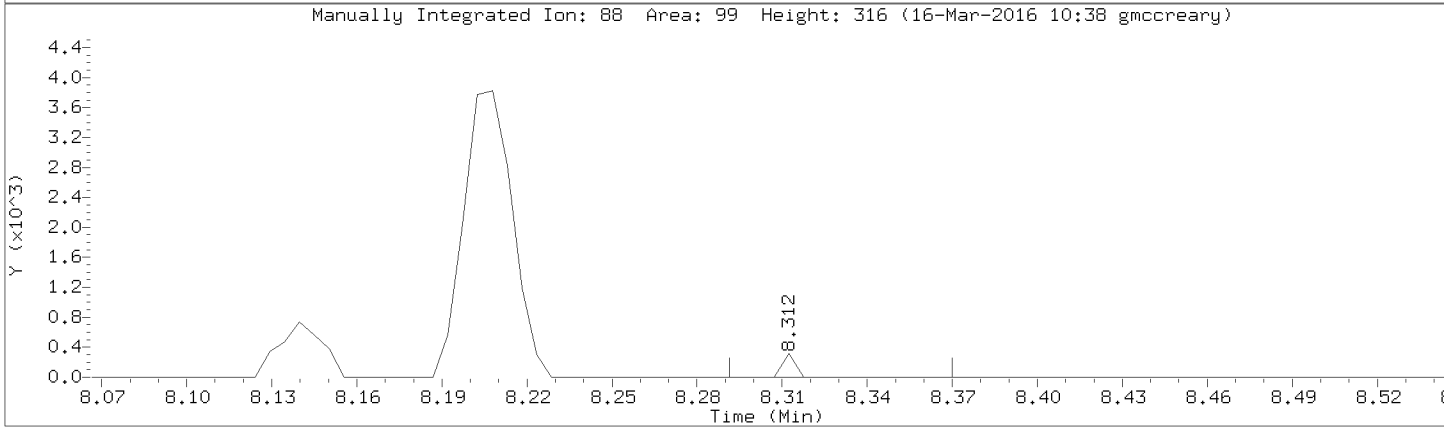
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

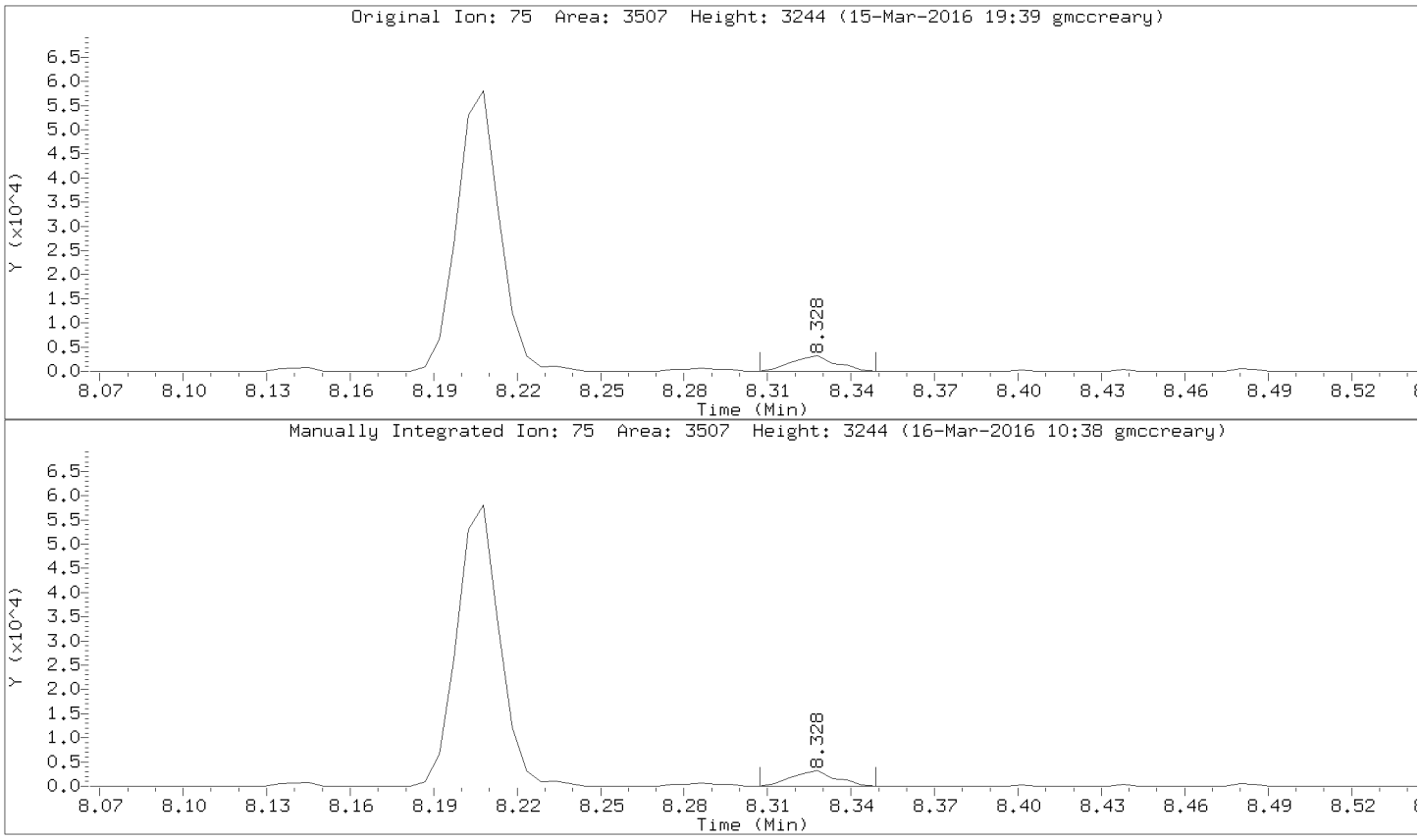






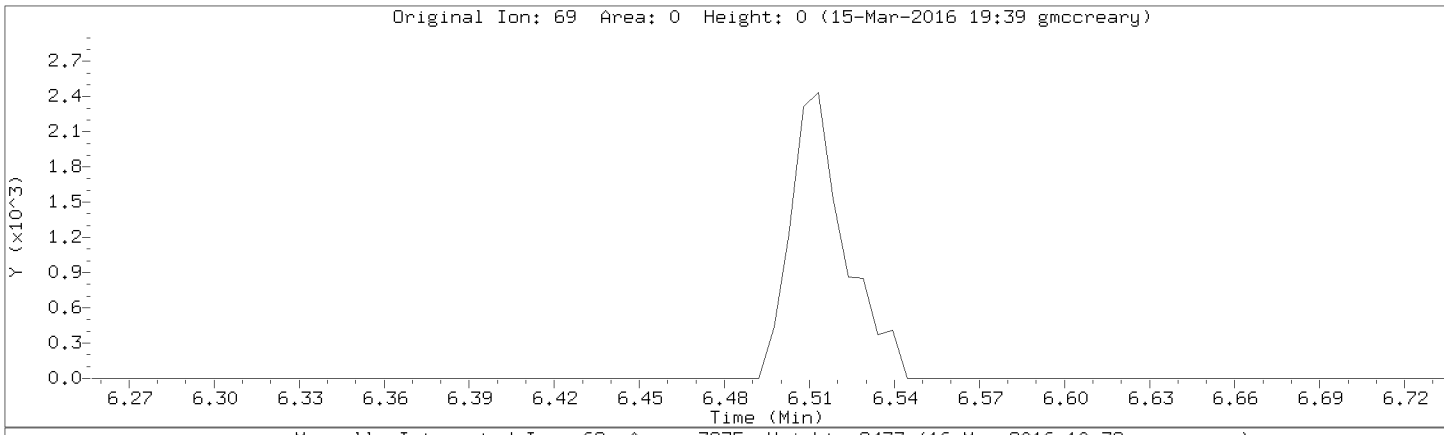


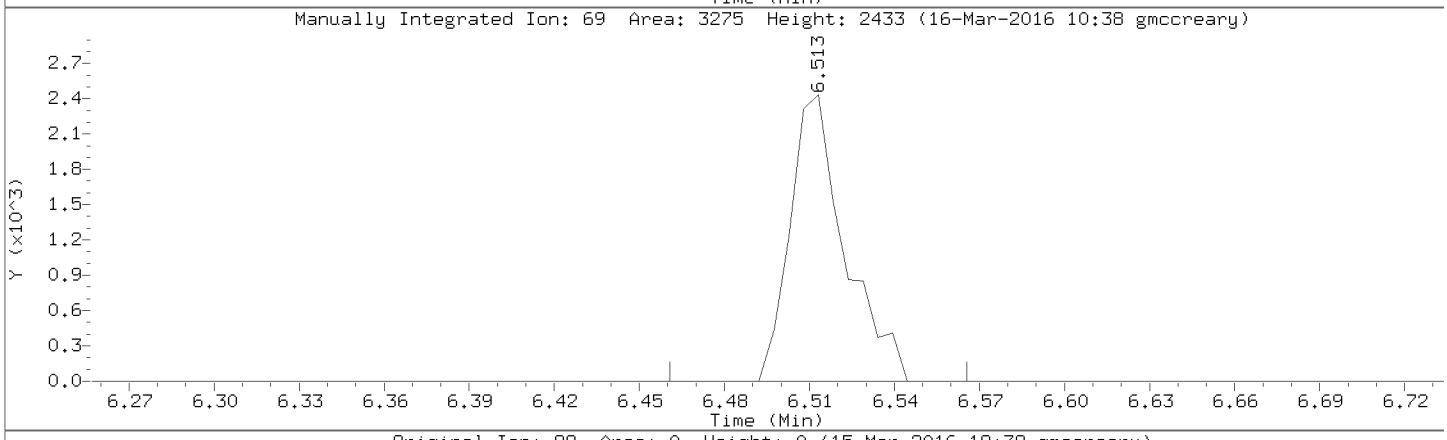
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

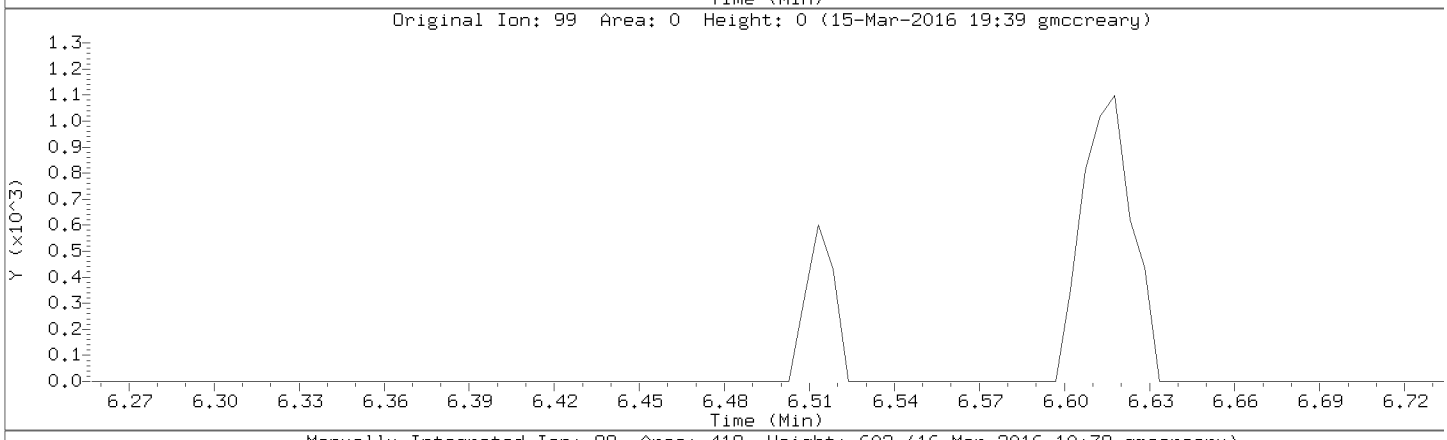


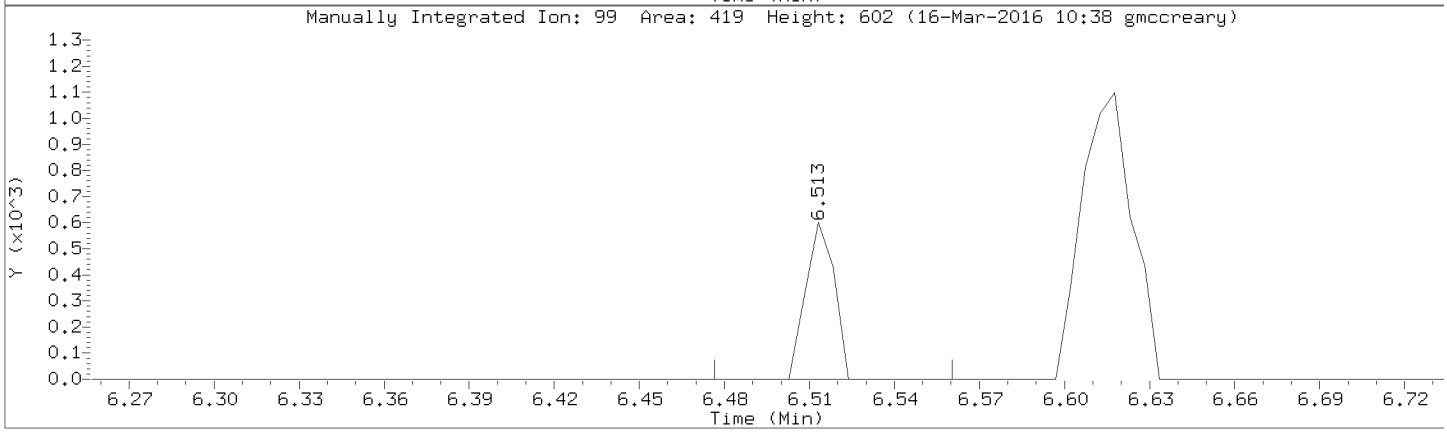
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

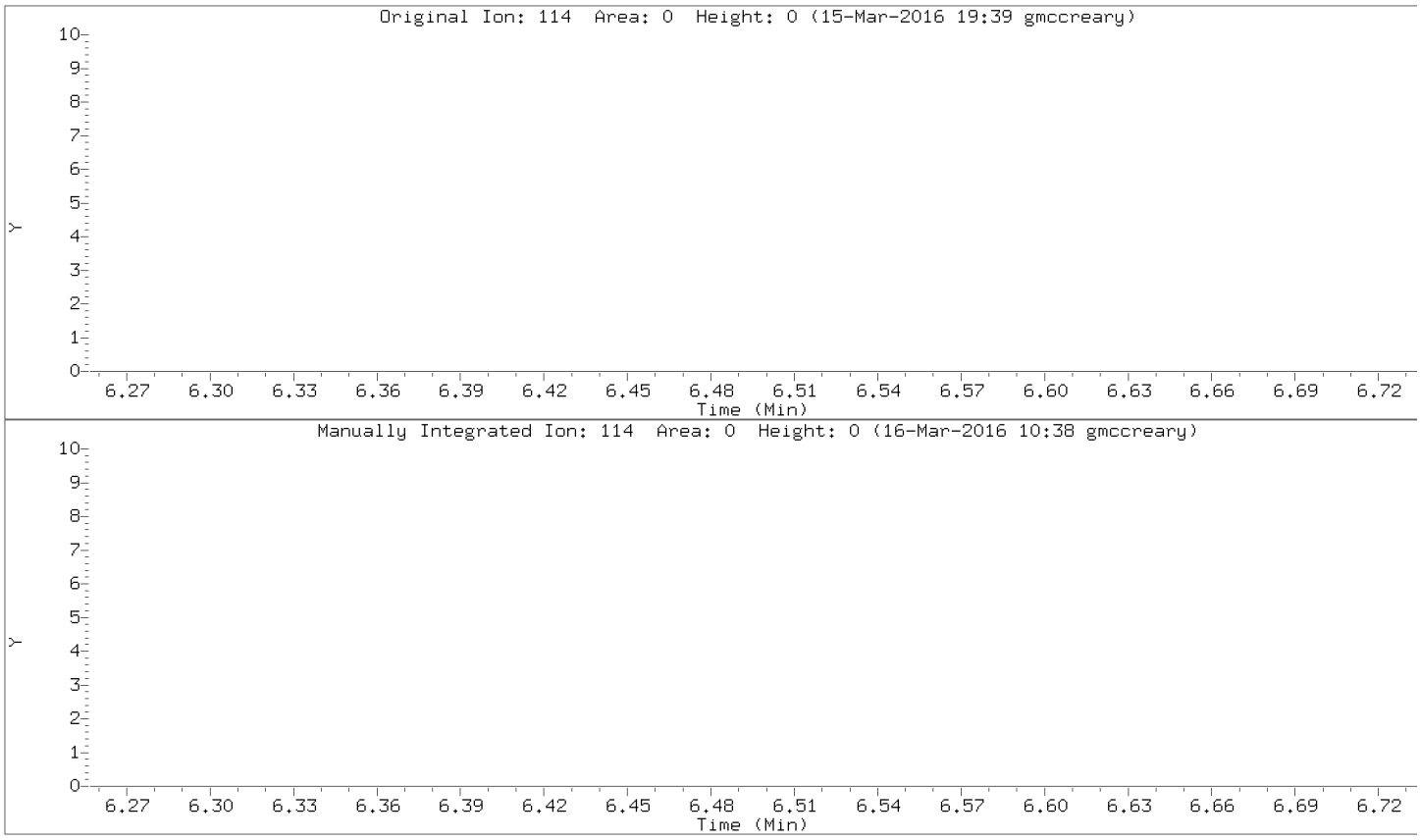






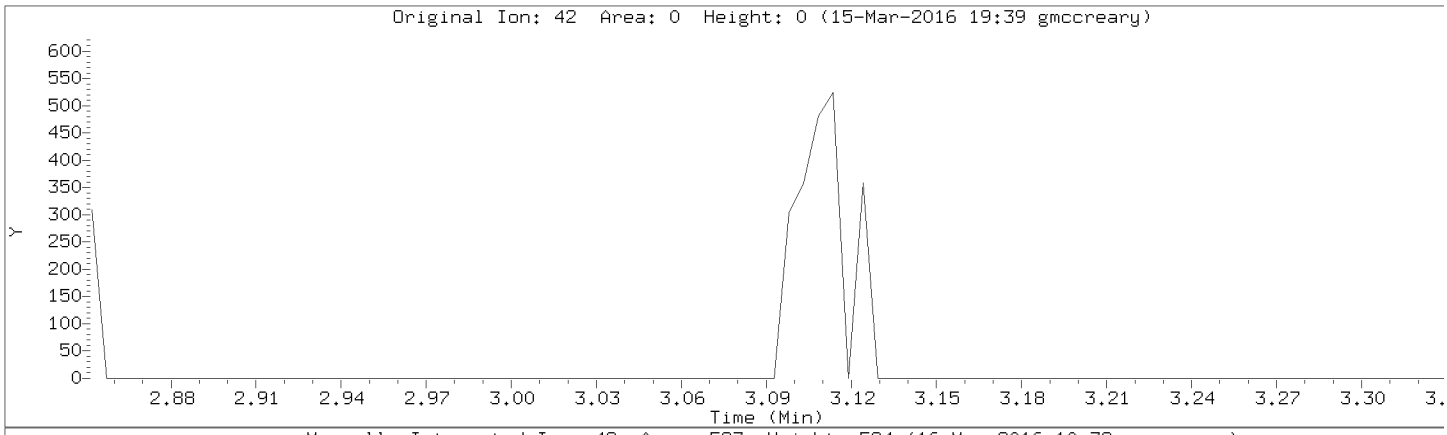


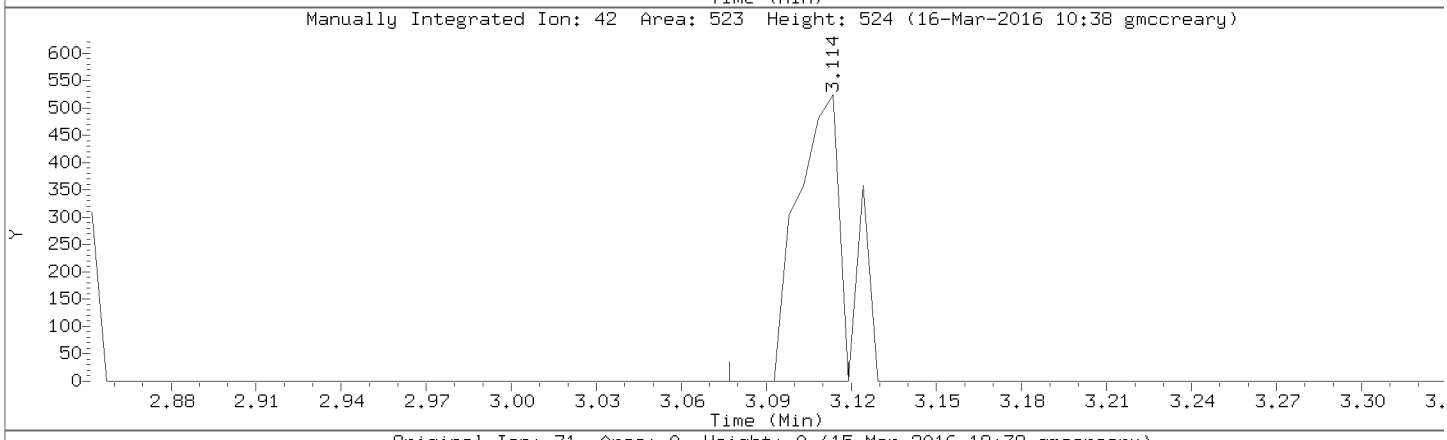
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

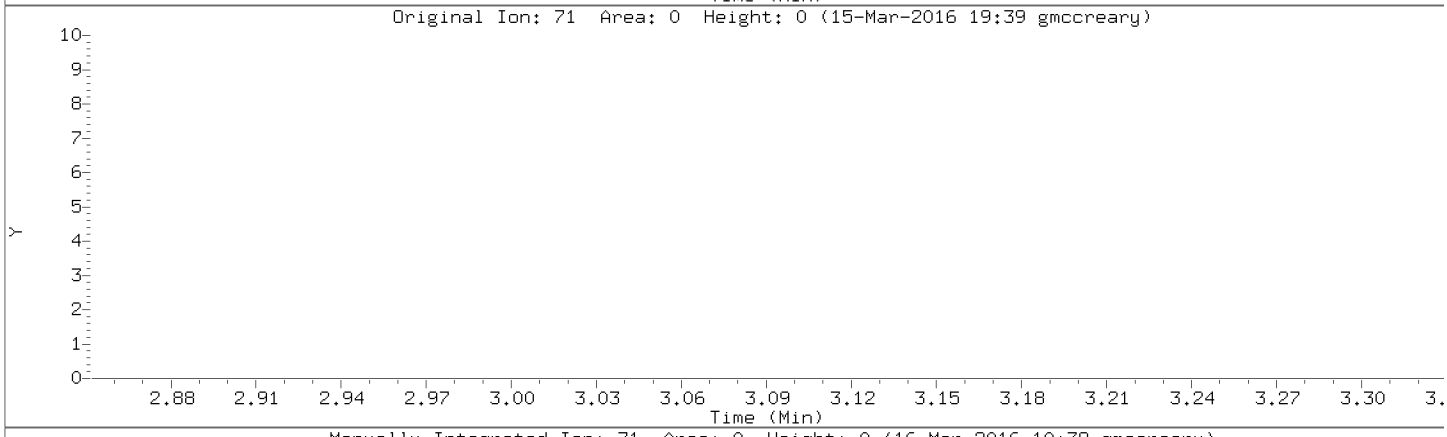


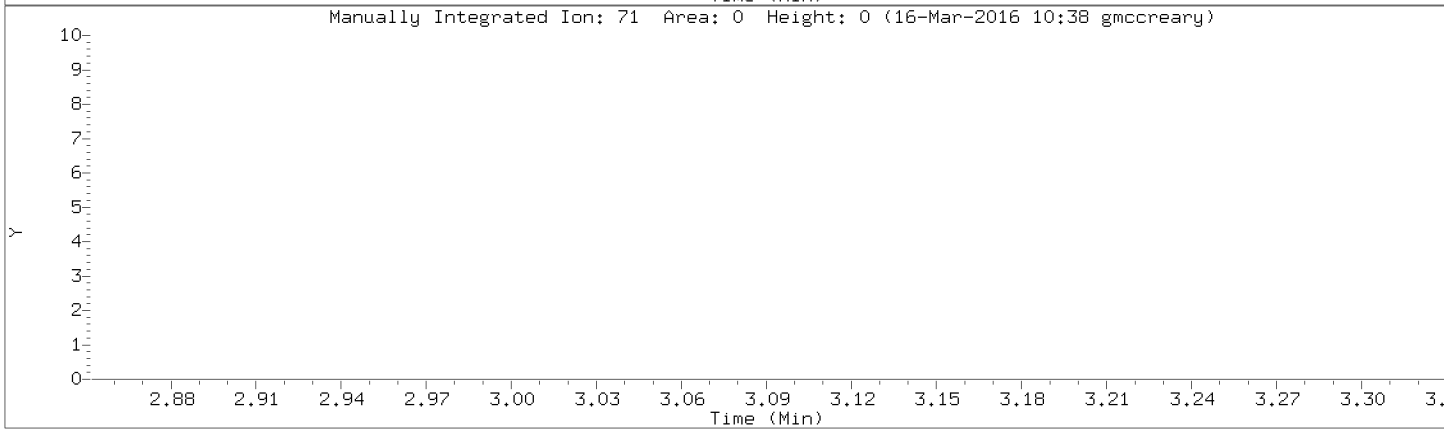
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:

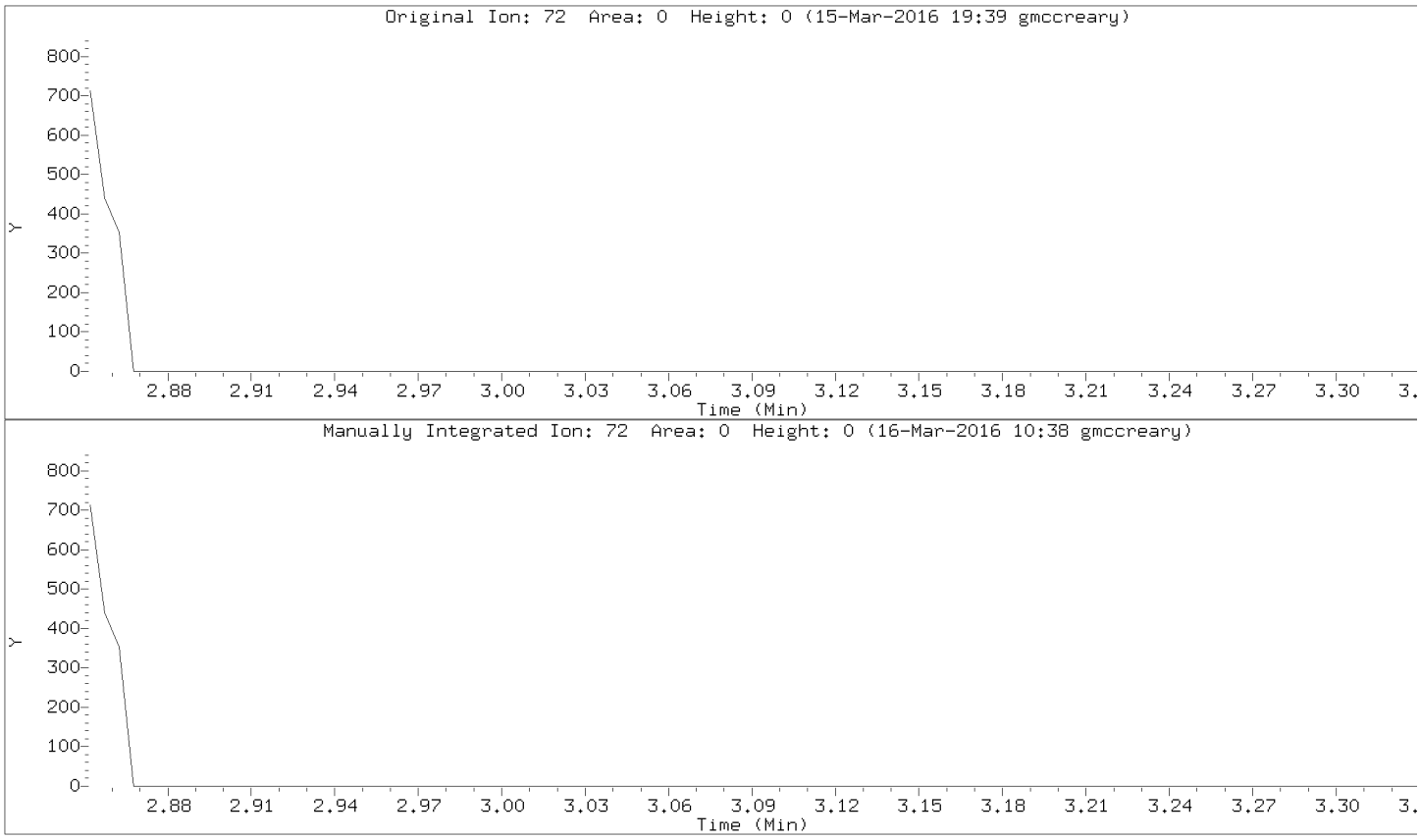






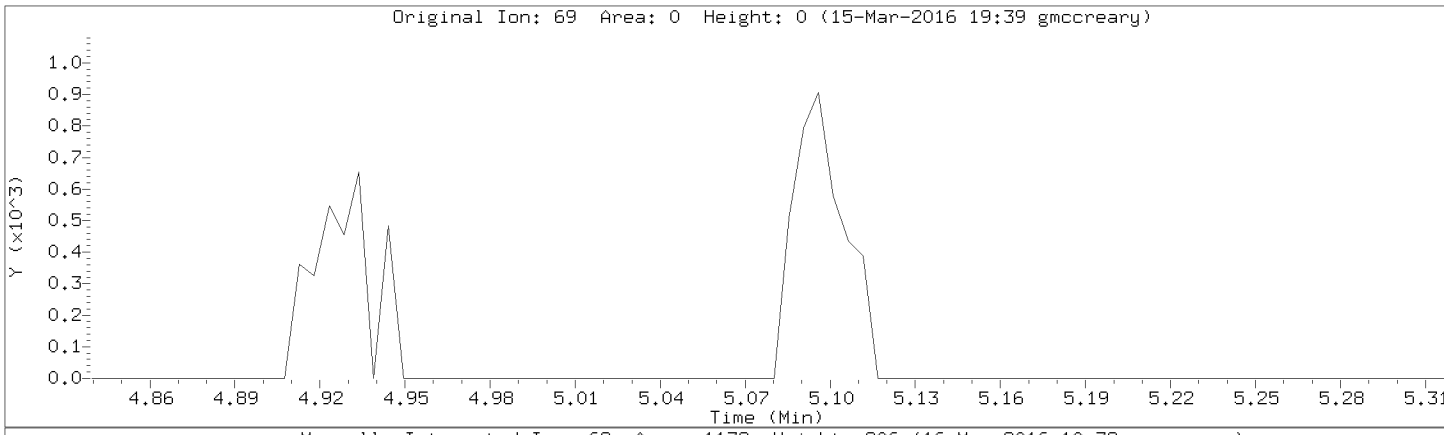


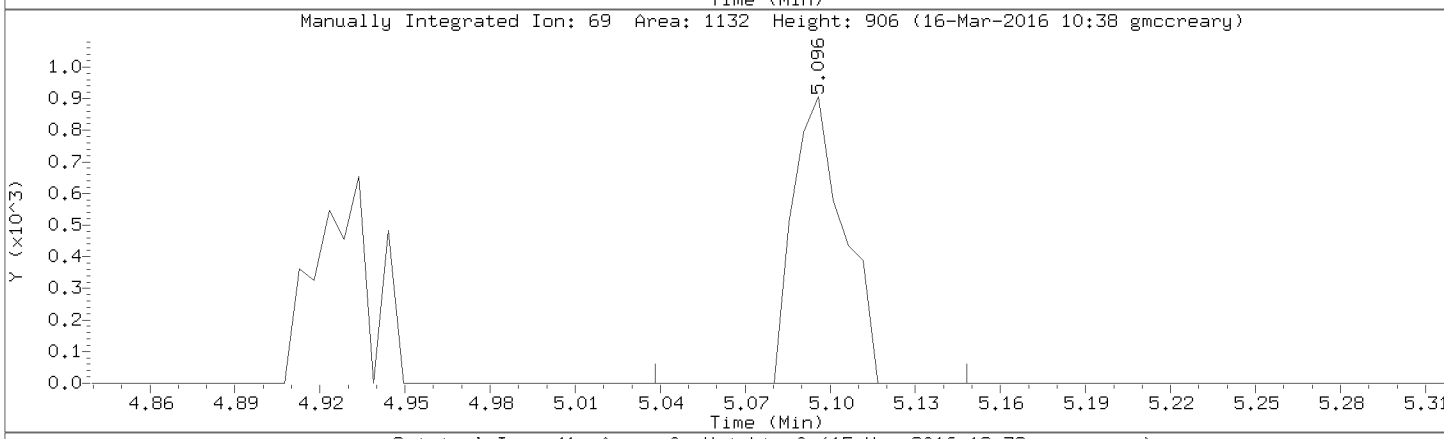
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

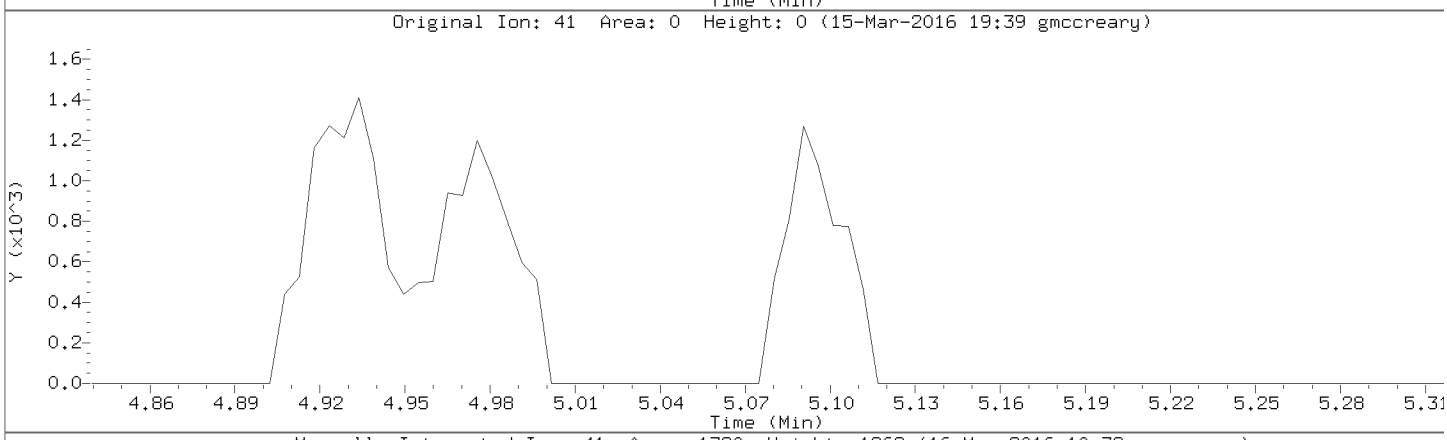


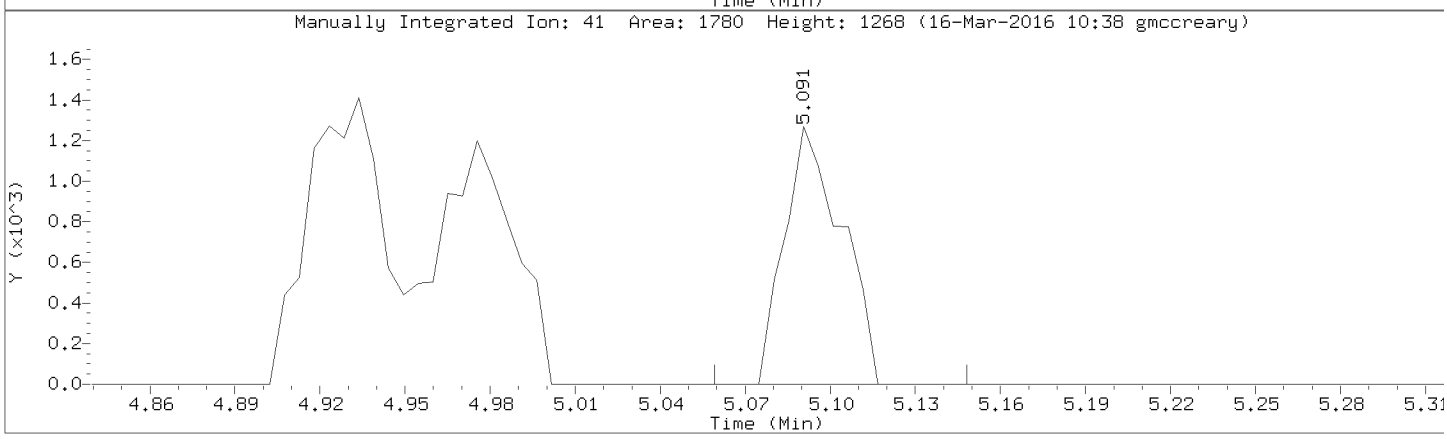
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

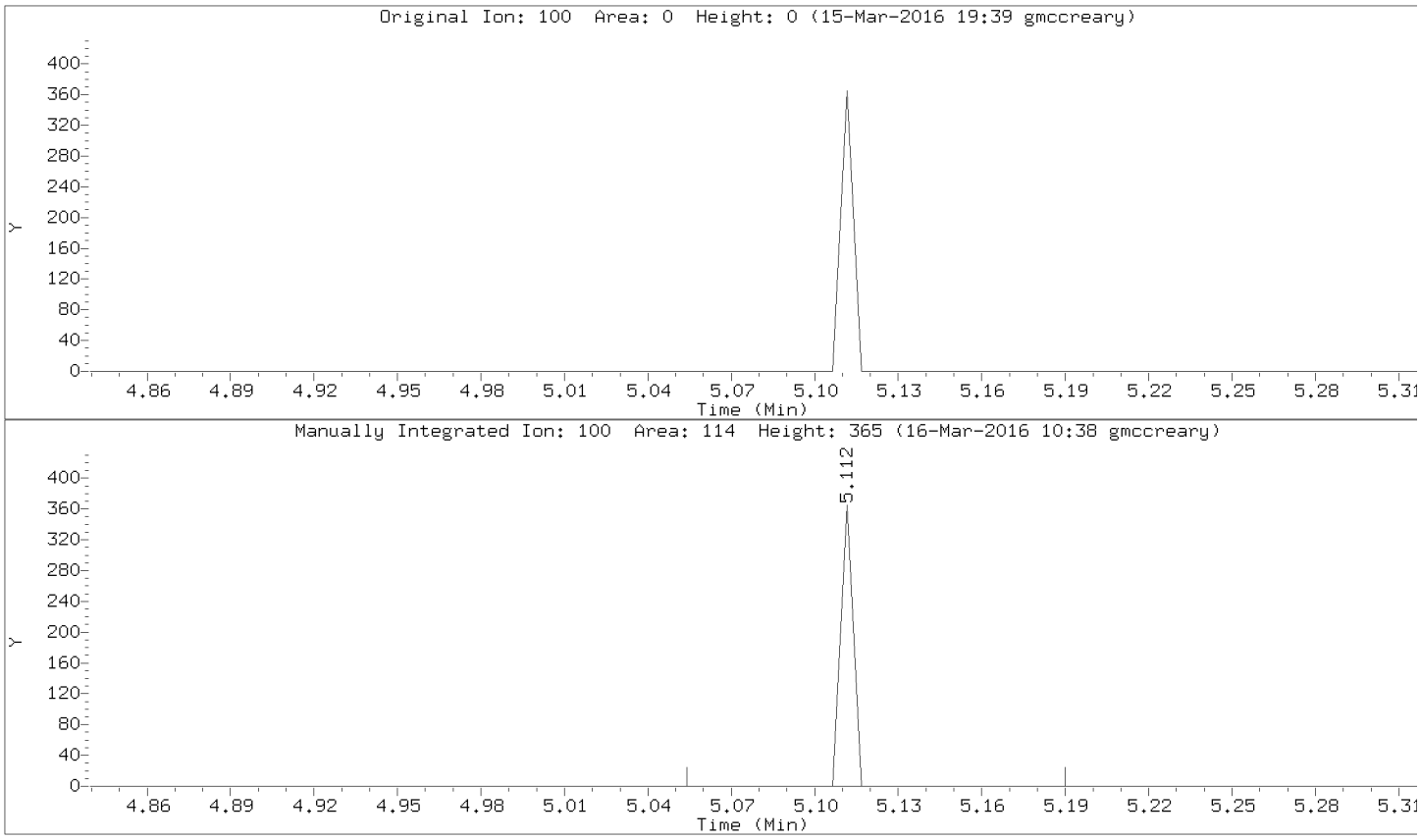






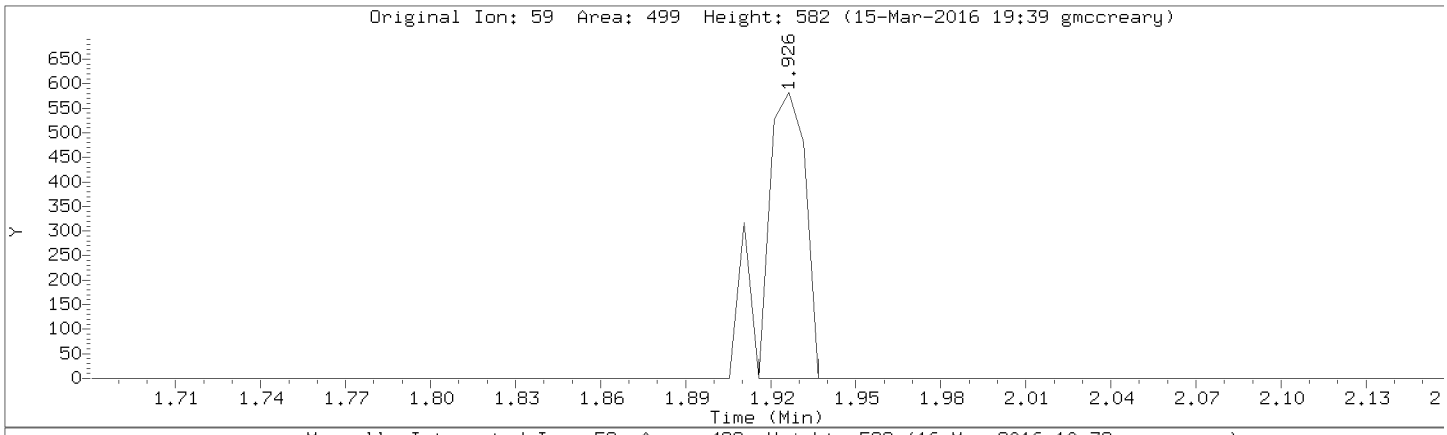


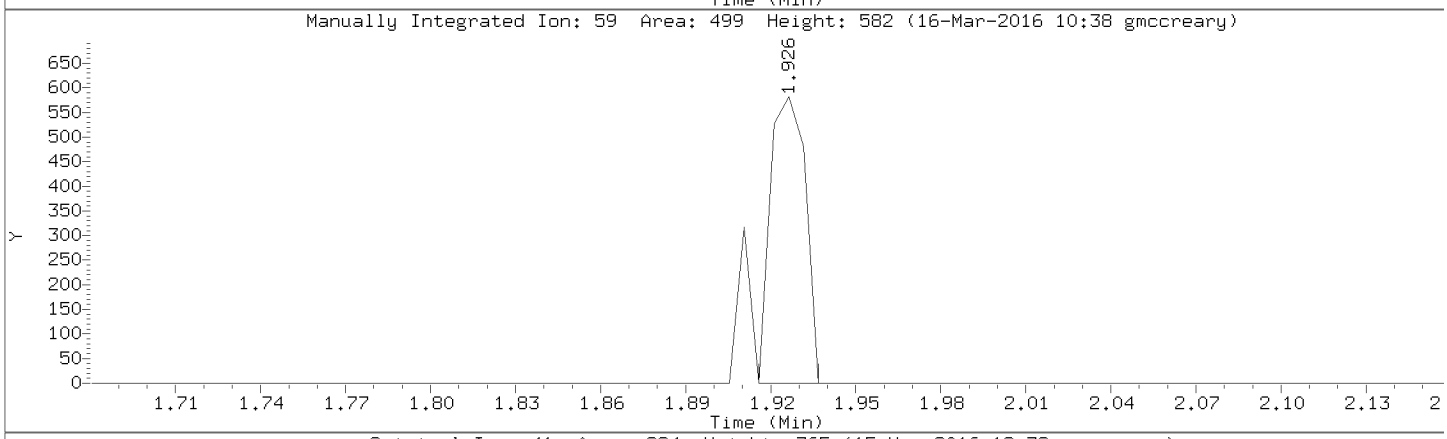
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

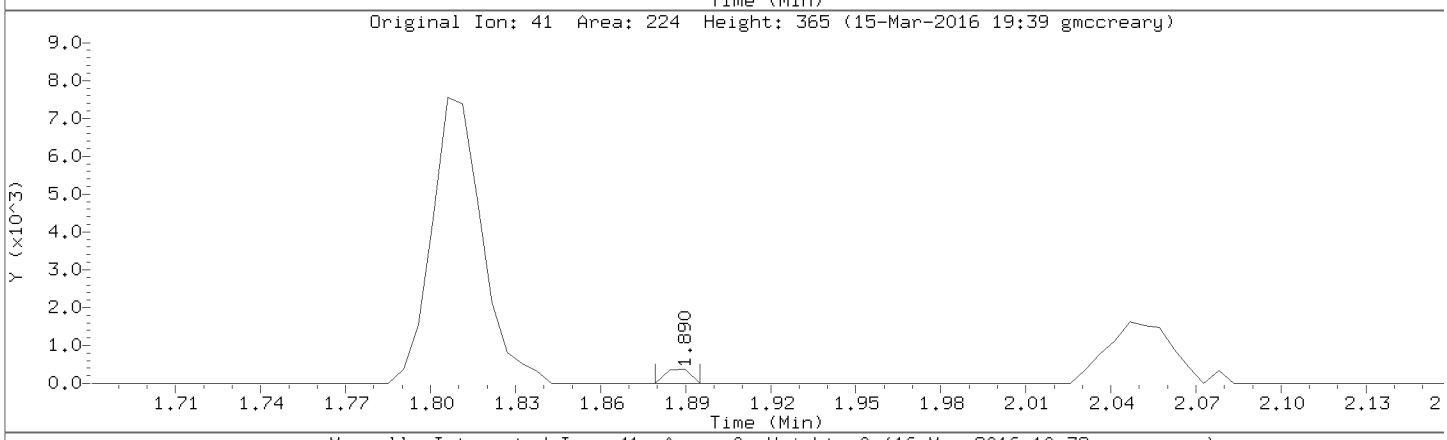


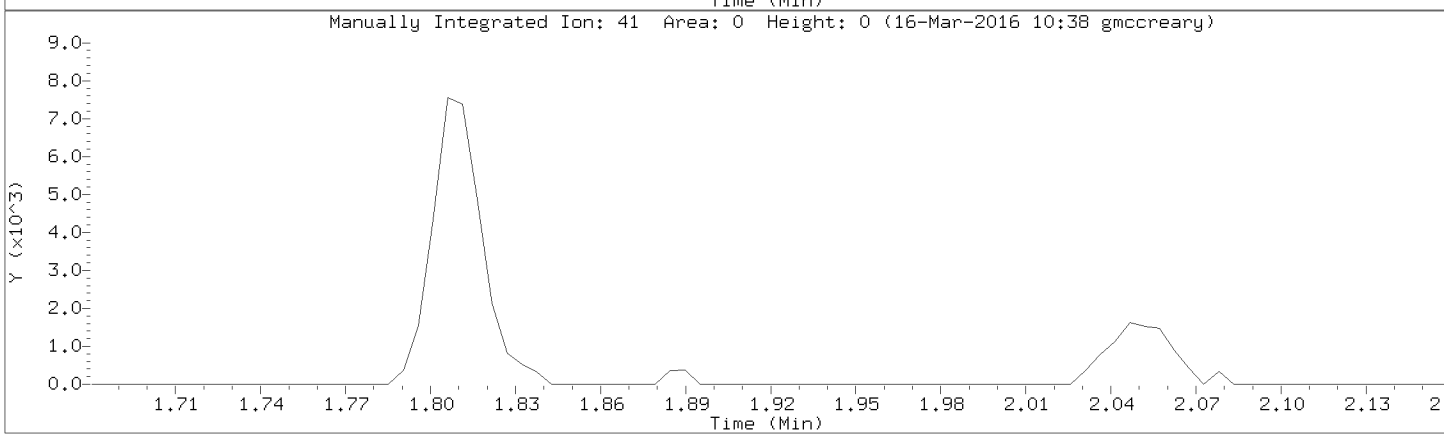
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



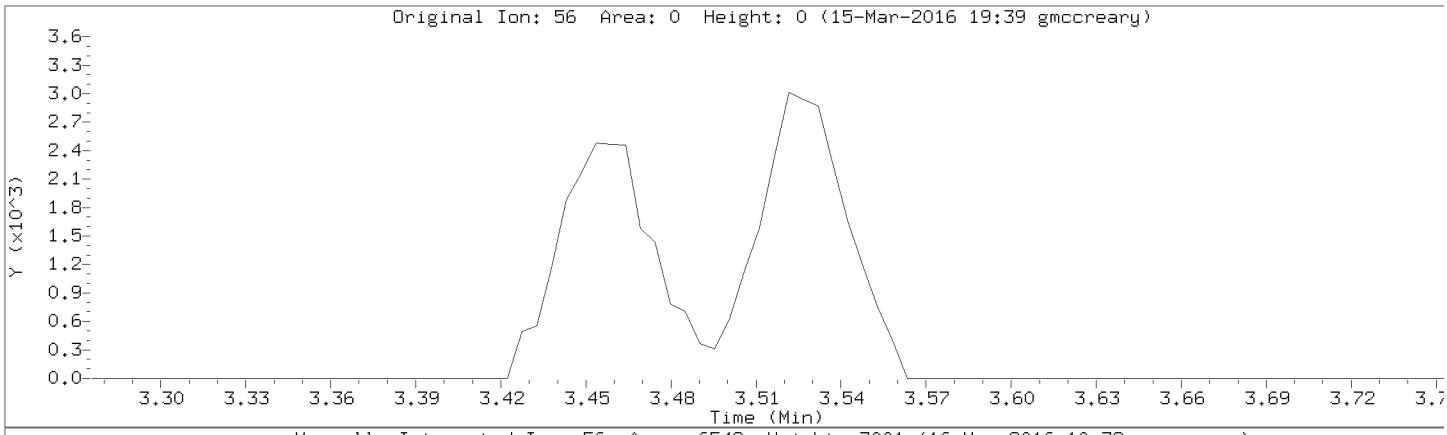


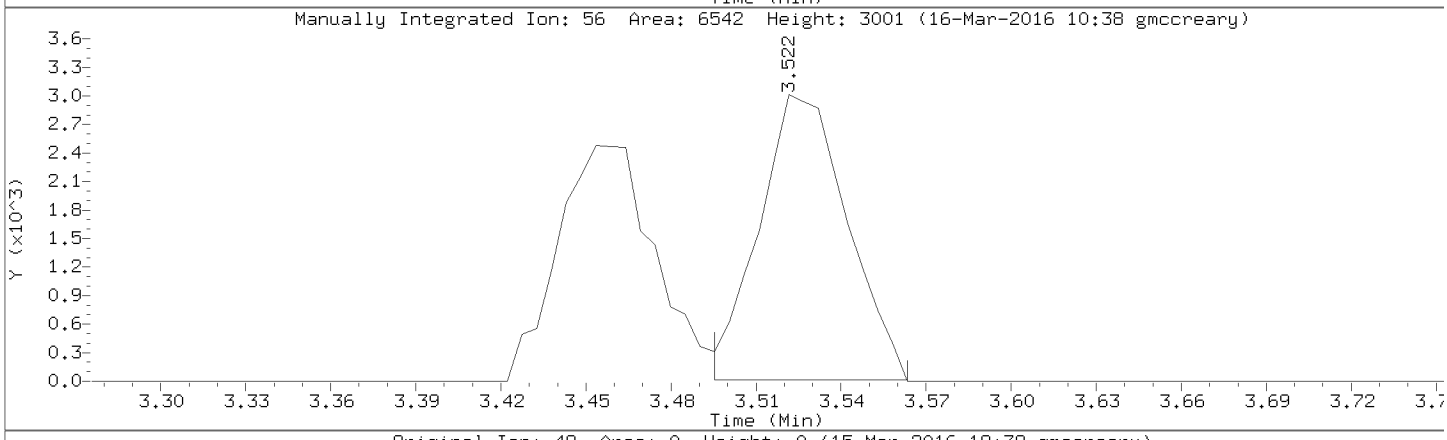


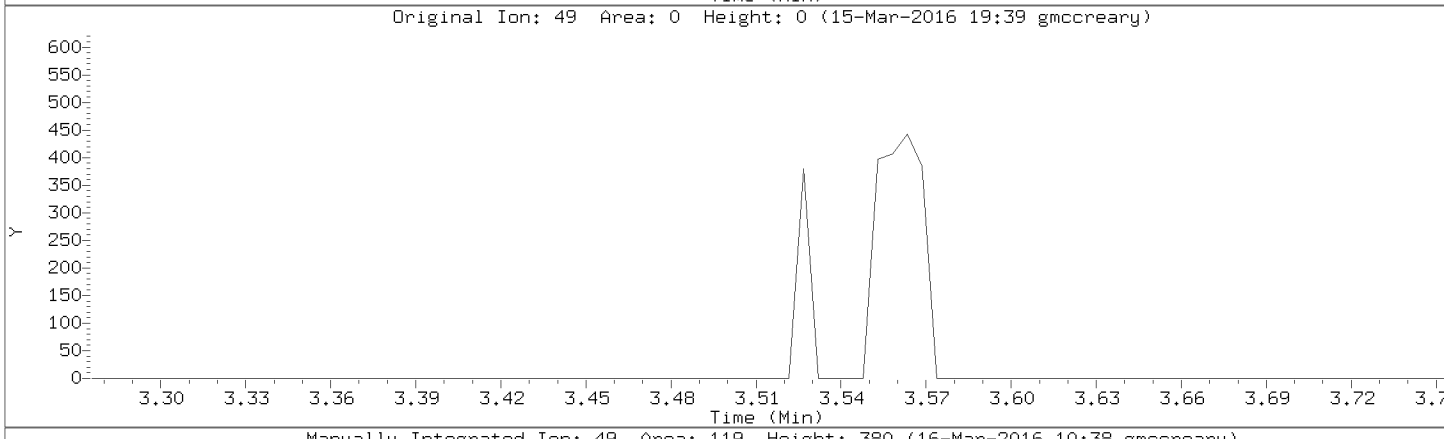


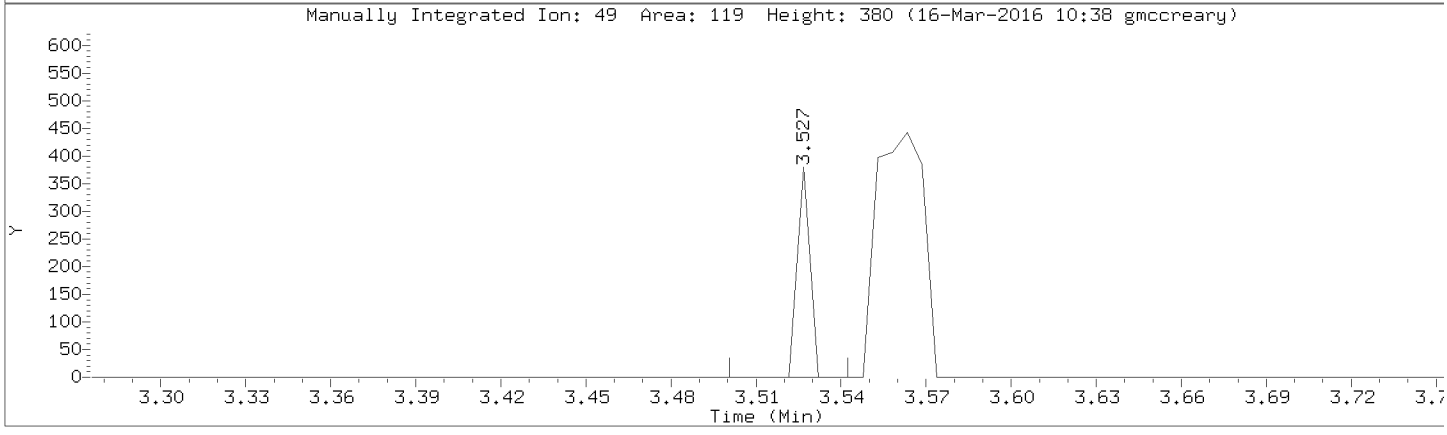
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a02cal.d
Injection Date: 15-MAR-2016 18:19
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: n-butyl chloride Review Code: NI
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a03cal.d
Lab Smp Id: 8260-CAL3,117042:0 Client Smp ID: 8260-CAL3,117042:0
Inj Date : 15-MAR-2016 18:54
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal3,117042:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.217)	11202	5.00000	5.18	
2	Chloromethane	50	0.999	0.995	(0.237)	14476	5.00000	5.15	
3	Vinyl Chloride	62	1.046	1.042	(0.248)	11743	5.00000	4.82	
4	Bromomethane	94	1.193	1.189	(0.283)	3762	5.00000	5.19	
5	Chloroethane	64	1.240	1.236	(0.294)	7140	5.00000	5.48	
6	Trichlorofluoromethane	101	1.355	1.351	(0.321)	13944	5.00000	5.01	
7	Diethyl ether	74	1.480	1.476	(0.351)	3325	5.00000	4.72	
8	1,2-dichlorotrifluoroethane	67	1.496	1.497	(0.355)	10051	5.00000	5.13	
9	Acrolein	56	1.554	1.555	(0.369)	15763	100.000	101	
10	1,1,2trichlorotrifluoroethane	101	1.606	1.602	(0.381)	8385	5.00000	4.89	
11	1,1-Dichloroethene	96	1.611	1.607	(0.382)	6754	5.00000	5.07	
12	Acetone	43	1.622	1.623	(0.385)	9162	25.0000	26.3	
13	Iodomethane	142	1.700	1.701	(0.403)	2750	10.0000	11.3(Q)	
14	Carbon Disulfide	76	1.747	1.748	(0.414)	24207	5.00000	5.18	
15	Methyl Acetate	43	1.794	1.790	(0.426)	5028	5.00000	5.14	
16	Acetonitrile	39	1.810	1.806	(0.429)	19967	5.00000	5.18	
17	allyl chloride	41	1.810	1.806	(0.429)	24984	10.0000	10.0	
18	Methylene Chloride	84	1.888	1.884	(0.448)	9894	5.00000	6.46	
19	tert-Butyl Alcohol	59	1.925	1.926	(0.457)	1579	10.0000	11.6(T)	
20	Acrylonitrile	53	2.030	2.026	(0.481)	7920	20.0000	19.7	
21	Methyl-tert-butyl ether	73	2.045	2.046	(0.485)	18521	5.00000	4.94	
22	1,2-Dichloroethene (trans)	96	2.061	2.057	(0.489)	7721	5.00000	5.17	
23	n-Hexane	57	2.239	2.240	(0.531)	14379	5.00000	5.08	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.359	2.355	(0.560)	50257	20.0000	19.0	
	25 1,1-Dichloroethane	63	2.370	2.371	(0.562)	14564	5.00000	4.90	
	26 Chloroprene	53	2.422	2.423	(0.575)	13288	5.00000	4.64	
	28 2-Butanone	43	2.835	2.836	(0.673)	14071	25.0000	24.8	
	29 1,2-Dichloroethene (cis)	96	2.856	2.852	(0.677)	8233	5.00000	5.00	
	30 2,2-Dichloropropane	77	2.861	2.857	(0.679)	10023	5.00000	4.55	
	31 Propionitrile	54	2.908	2.894	(0.690)	478	5.00000	3.14(TQM)	WP
	32 Methacrylonitrile	41	3.055	3.045	(0.725)	3795	5.00000	5.13	
	33 Bromochloromethane	49	3.086	3.087	(0.732)	6700	5.00000	5.67	
	34 Tetrahydrofuran	42	3.112	3.103	(0.738)	1623	5.00000	5.06	
	35 Chloroform	83	3.201	3.202	(0.759)	14443	5.00000	5.11	
	37 1,1,1-Trichloroethane	97	3.374	3.375	(0.800)	12481	5.00000	4.96	
$	38 Dibromofluoromethane (S)	113	3.379	3.380	(0.802)	87302	50.0000	52.1	
	150 n-butyl chloride	56	3.525	3.527	(0.836)	17285	5.00000	4.83	
	39 Cyclohexane	56	3.452	3.453	(0.819)	14795	5.00000	4.98	
	40 Carbon Tetrachloride	117	3.557	3.558	(0.844)	8606	5.00000	4.13	
	41 1,1-Dichloropropene	75	3.562	3.568	(0.845)	10599	5.00000	4.86	
	42 Benzene	78	3.813	3.814	(0.904)	28330	5.00000	4.68	
	43 1,2-Dichloroethane	62	3.907	3.903	(0.927)	10756	5.00000	5.10	
	44 Isobutyl alcohol	43	3.986	3.976	(0.945)	6148	5.00000	4.89	
	45 2,2,4-Trimethylpentane	57	3.980	3.976	(0.944)	33738	5.00000	5.12	
*	46 Fluorobenzene (IS)	96	4.216	4.217	(1.000)	332856	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	8012	5.00000	4.82	
	48 Methylcyclohexane	55	4.932	4.928	(1.170)	11320	5.00000	4.64	
	49 1,2-Dichloropropane	63	4.974	4.975	(1.180)	7464	5.00000	4.79	
	52 1,4-Dioxane	88	5.084	5.085	(1.206)	952	100.000	80.4(QM)	NI
	50 Dibromomethane	93	5.074	5.075	(1.203)	3917	5.00000	4.82(Q)	
	51 Methyl methacrylate	69	5.089	5.090	(1.207)	3516	5.00000	4.30	
	53 Bromodichloromethane	83	5.298	5.300	(1.257)	9485	5.00000	4.60	
	54 2-Chloroethyl vinyl ether	63	5.654	5.650	(0.765)	5581	10.0000	8.40	
	55 cis-1,3-Dichloropropene	75	5.795	5.797	(0.784)	9843	5.00000	4.17	
	56 4-Methyl-2-Pentanone	43	5.973	5.969	(0.808)	29254	25.0000	22.4	
$	57 Toluene-d8	98	6.067	6.068	(0.821)	341857	50.0000	49.8	
	58 Toluene	91	6.141	6.142	(0.831)	35393	5.00000	4.66	
	59 trans-1,3-Dichloropropene	75	6.428	6.429	(0.870)	7850	5.00000	4.03	
	60 Ethyl Methacrylate	69	6.512	6.508	(0.881)	7975	5.00000	4.49(M)	NI
	61 1,1,2-Trichloroethane	83	6.611	6.612	(0.895)	4447	5.00000	4.27	
	62 Tetrachloroethene	166	6.664	6.659	(0.902)	9515	5.00000	4.50	
	63 1,3-Dichloropropane	76	6.758	6.754	(0.914)	8966	5.00000	4.37	
	64 2-Hexanone	43	6.820	6.822	(0.923)	21278	25.0000	22.7	
	65 Dibromochloromethane	129	6.941	6.937	(0.939)	5828	5.00000	3.88	
	66 1,2-Dibromoethane	107	7.024	7.020	(0.950)	5524	5.00000	4.45	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.392	(1.000)	262363	50.0000		
	68 Chlorobenzene	112	7.411	7.413	(1.003)	22554	5.00000	4.69	
	69 1,1,1,2-Tetrachloroethane	131	7.485	7.491	(1.013)	6887	5.00000	4.41	
	70 Ethylbenzene	106	7.490	7.491	(1.013)	12011	5.00000	4.52	
	71 m&p-Xylene	106	7.589	7.590	(1.027)	30679	10.0000	9.41	
	72 o-Xylene	106	7.851	7.852	(1.062)	14916	5.00000	4.77	
	73 Styrene	104	7.866	7.868	(1.064)	23889	5.00000	4.62	
	74 Bromoform	173	7.987	7.988	(0.899)	4247	5.00000	4.29	
	75 Isopropylbenzene	105	8.091	8.093	(1.095)	38720	5.00000	4.66	
$	76 4-Bromofluorobenzene	95	8.206	8.208	(1.110)	120066	50.0000	49.7	
	77 Bromobenzene	77	8.285	8.286	(1.121)	13840	5.00000	4.70	
	78 1,1,2,2-Tetrachloroethane	83	8.301	8.297	(0.934)	7664	5.00000	4.83	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.321	8.317	(1.126)	1848	5.00000	4.25	
81	1,2,3-Trichloropropane	110	8.327	8.328	(0.937)	2194	5.00000	4.76(Q)	
82	n-Propylbenzene	91	8.353	8.354	(0.940)	47050	5.00000	4.79	
83	2-Chlorotoluene	91	8.405	8.401	(0.946)	27002	5.00000	4.79	
84	1,3,5-Trimethylbenzene	105	8.463	8.464	(0.952)	33075	5.00000	4.85	
85	4-Chlorotoluene	126	8.478	8.480	(0.954)	10300	5.00000	4.96	
86	tert-Butylbenzene	119	8.641	8.642	(0.972)	30657	5.00000	4.76	
87	1,2,4-Trimethylbenzene	105	8.677	8.678	(0.976)	33390	5.00000	4.72	
88	sec-Butylbenzene	105	8.766	8.767	(0.986)	42626	5.00000	4.76	
89	1,3-Dichlorobenzene	146	8.839	8.840	(0.995)	19437	5.00000	4.78	
90	p-Isopropyltoluene	119	8.855	8.856	(0.996)	37640	5.00000	4.87	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.882	(1.000)	134013	50.0000		
92	1,4-Dichlorobenzene	146	8.897	8.898	(1.001)	19452	5.00000	4.64	
93	n-Butylbenzene	91	9.075	9.071	(1.021)	33282	5.00000	4.68	
94	1,2-Dichlorobenzene	146	9.090	9.091	(1.023)	18106	5.00000	4.79	
95	1,2-Dibromo-3-chloropropane	155	9.509	9.505	(1.070)	1302	5.00000	5.23	
96	1,2,4-Trichlorobenzene	180	9.927	9.918	(1.117)	14997	5.00000	5.16	
97	Hexachlorobutadiene	225	9.995	9.981	(1.125)	10330	5.00000	5.30	
98	Naphthalene	128	10.074	10.064	(1.134)	27588	5.00000	4.93	
99	1,2,3-Trichlorobenzene	180	10.194	10.179	(1.147)	13642	5.00000	5.05	
100	2,methyl-naphthalene	142	10.717	10.702	(1.206)	16516	5.00000	4.85	
101	1-methylnaphthalene	142	10.837	10.823	(1.220)	16525	5.00000	5.19	

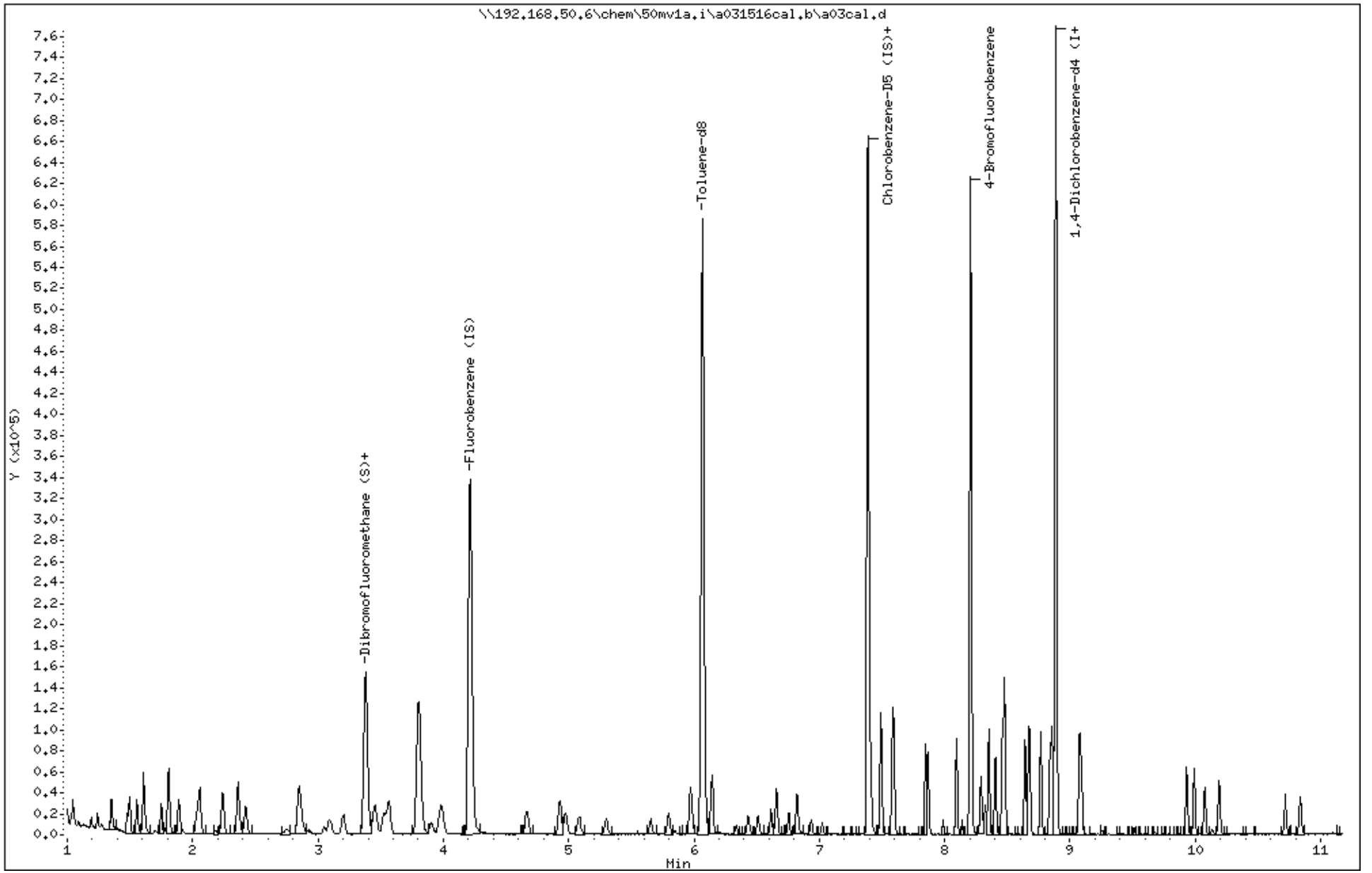
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

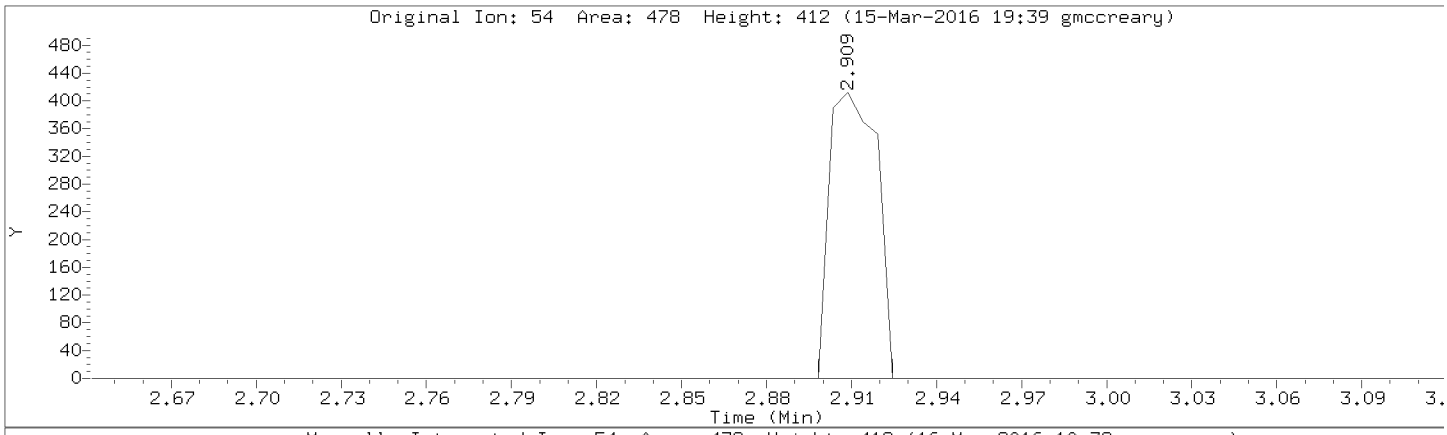
:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

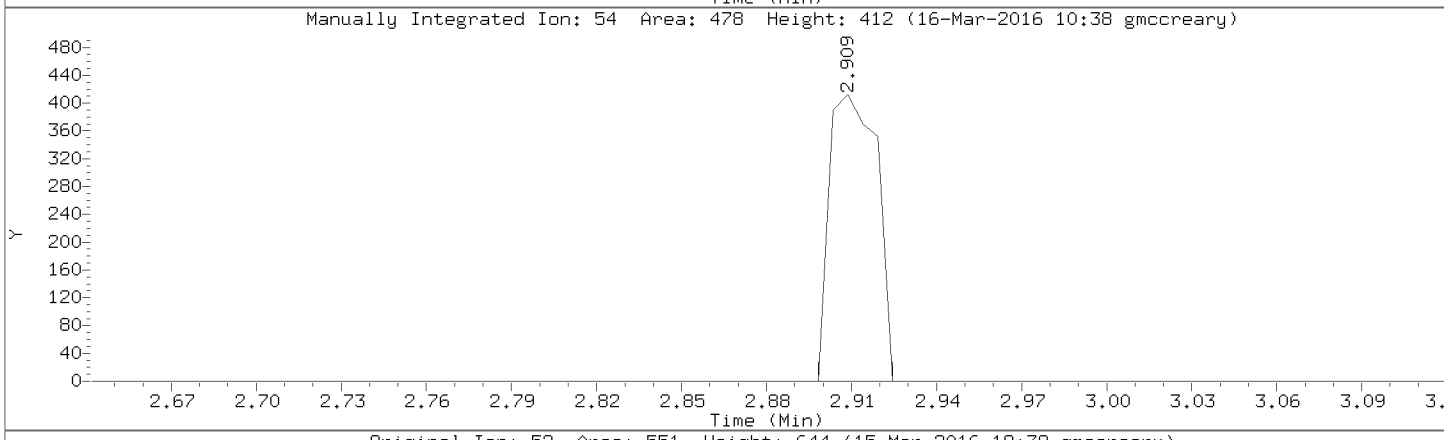
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a03cal.d
Date : 15-MAR-2016 18:54
Client ID: 8260-CAL3,117042:0
Instrument: 50mv1a.i
Sample Info: 8260-CAL3,117042:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

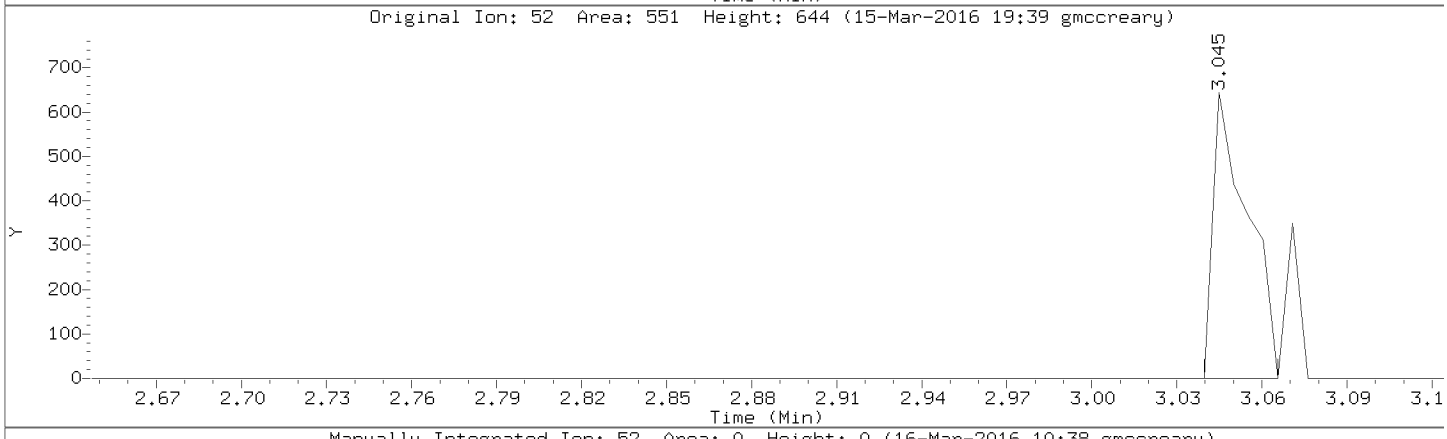


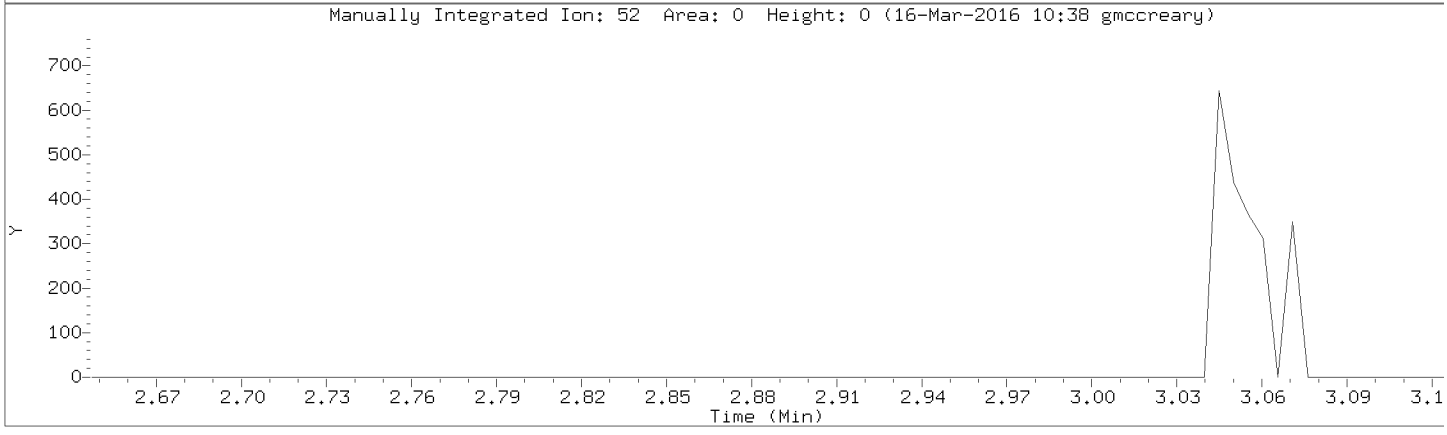
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a03cal.d
Injection Date: 15-MAR-2016 18:54
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

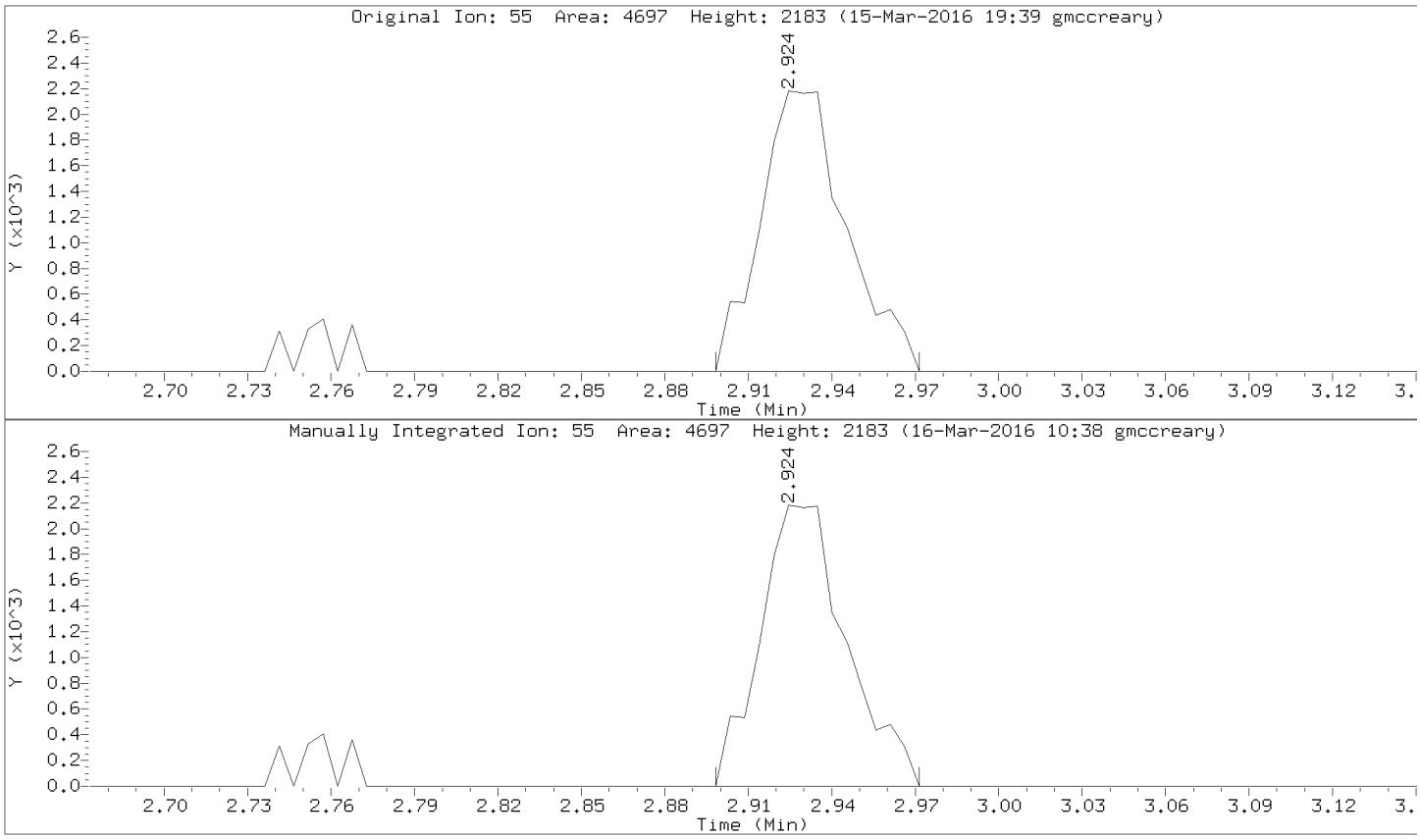






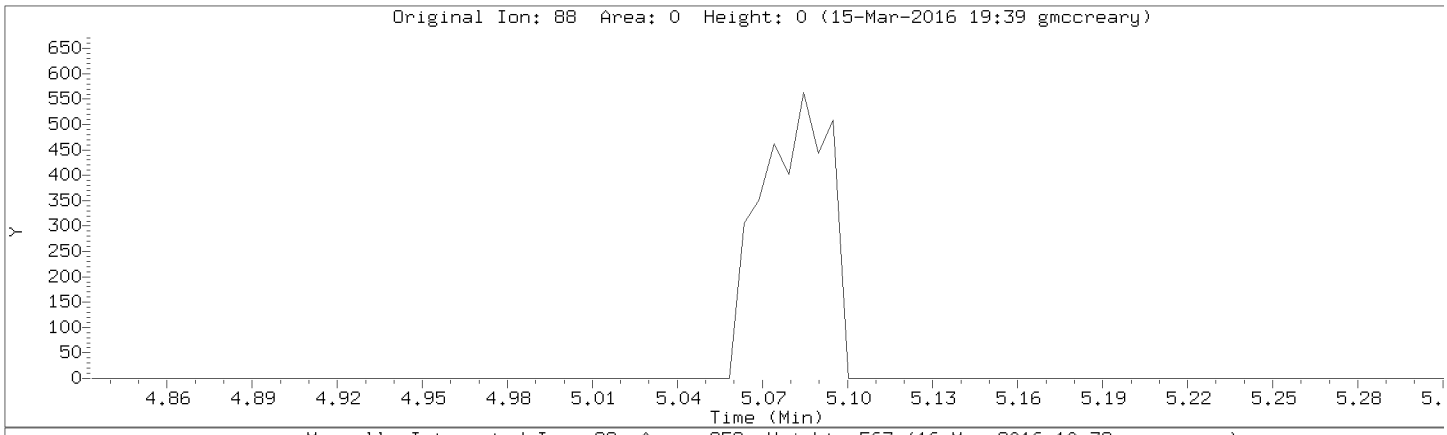


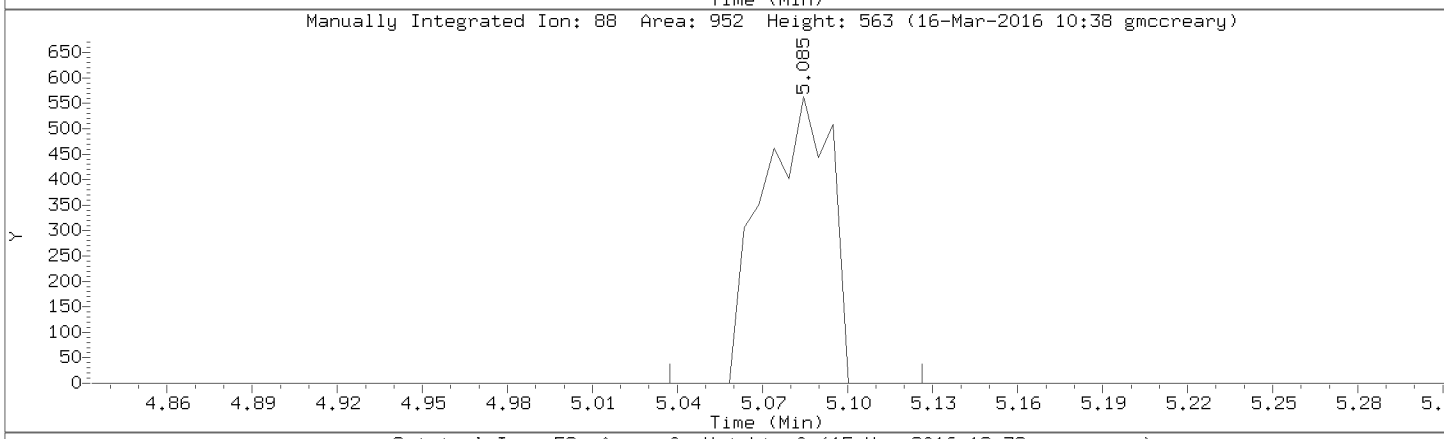
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a03cal.d
Injection Date: 15-MAR-2016 18:54
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL3,117042:0

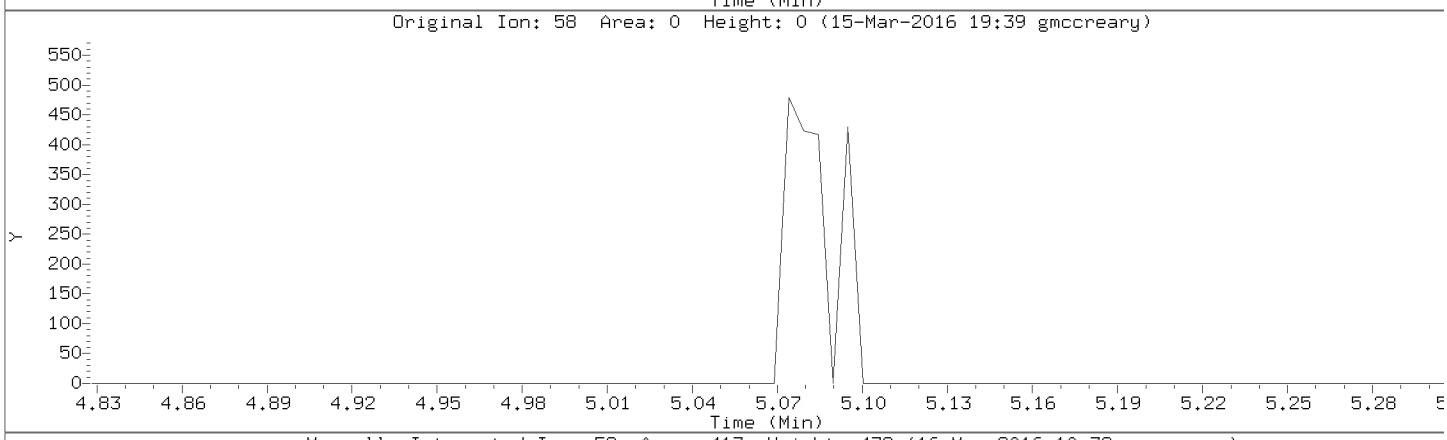


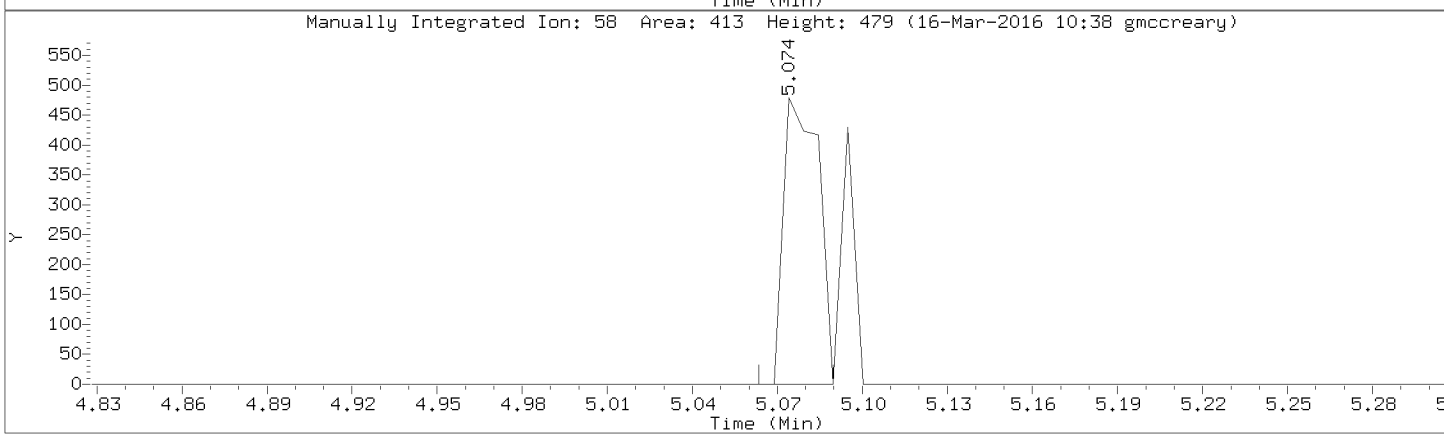
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a03cal.d
Injection Date: 15-MAR-2016 18:54
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



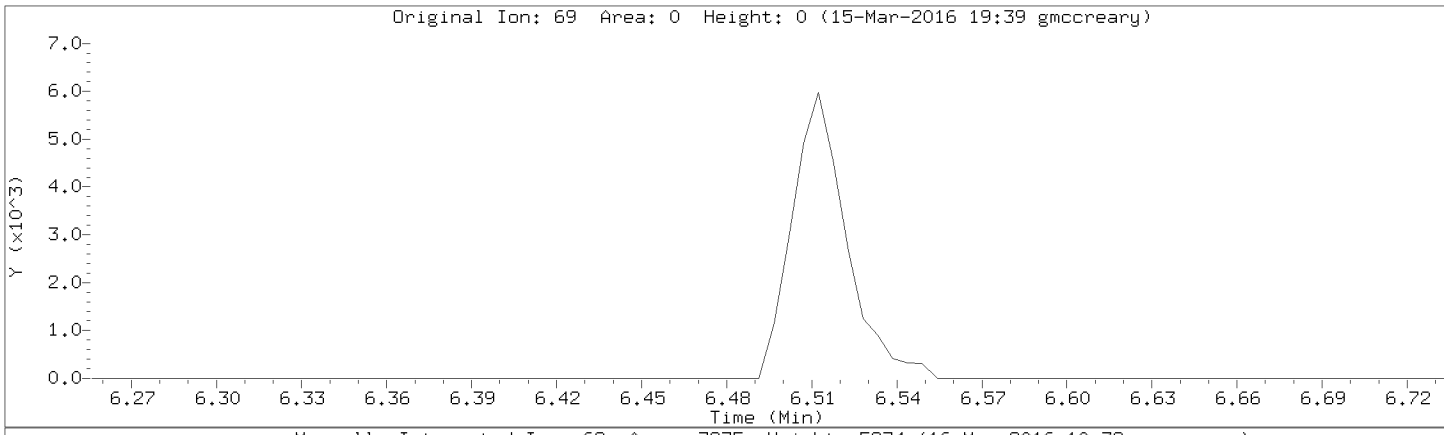


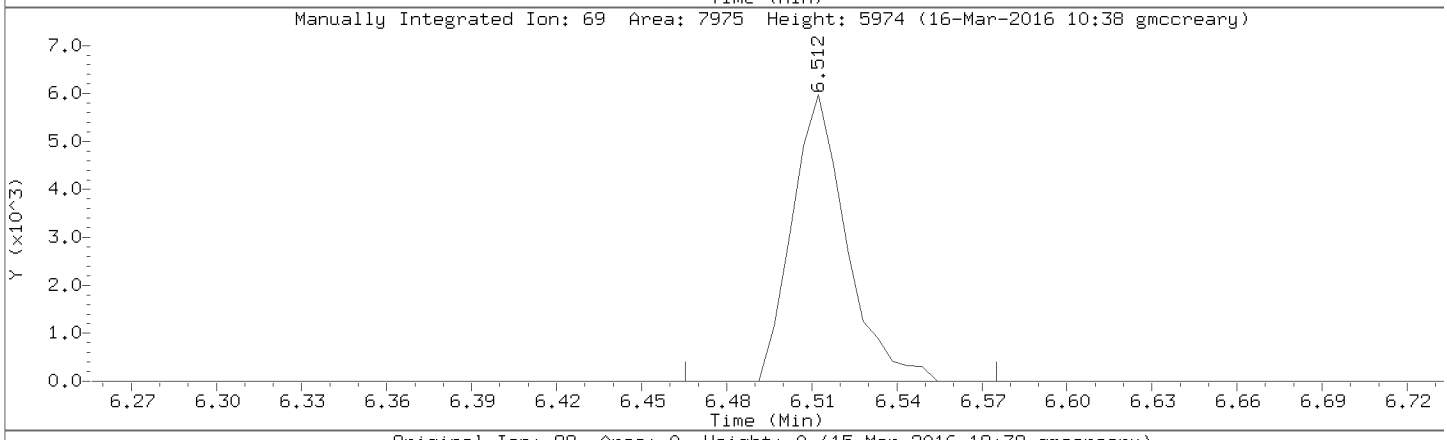


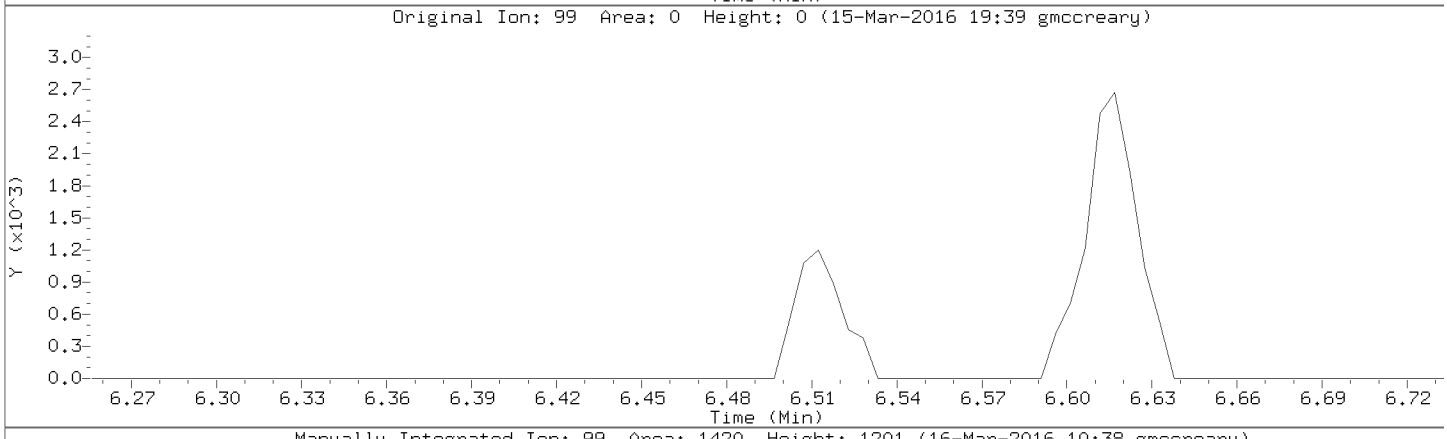


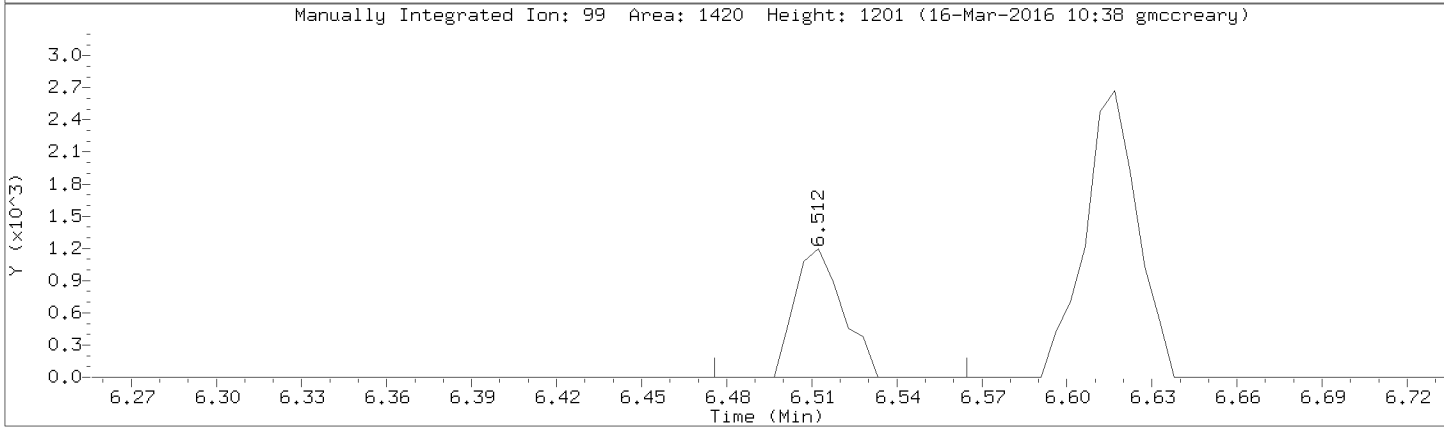
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a03cal.d
Injection Date: 15-MAR-2016 18:54
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

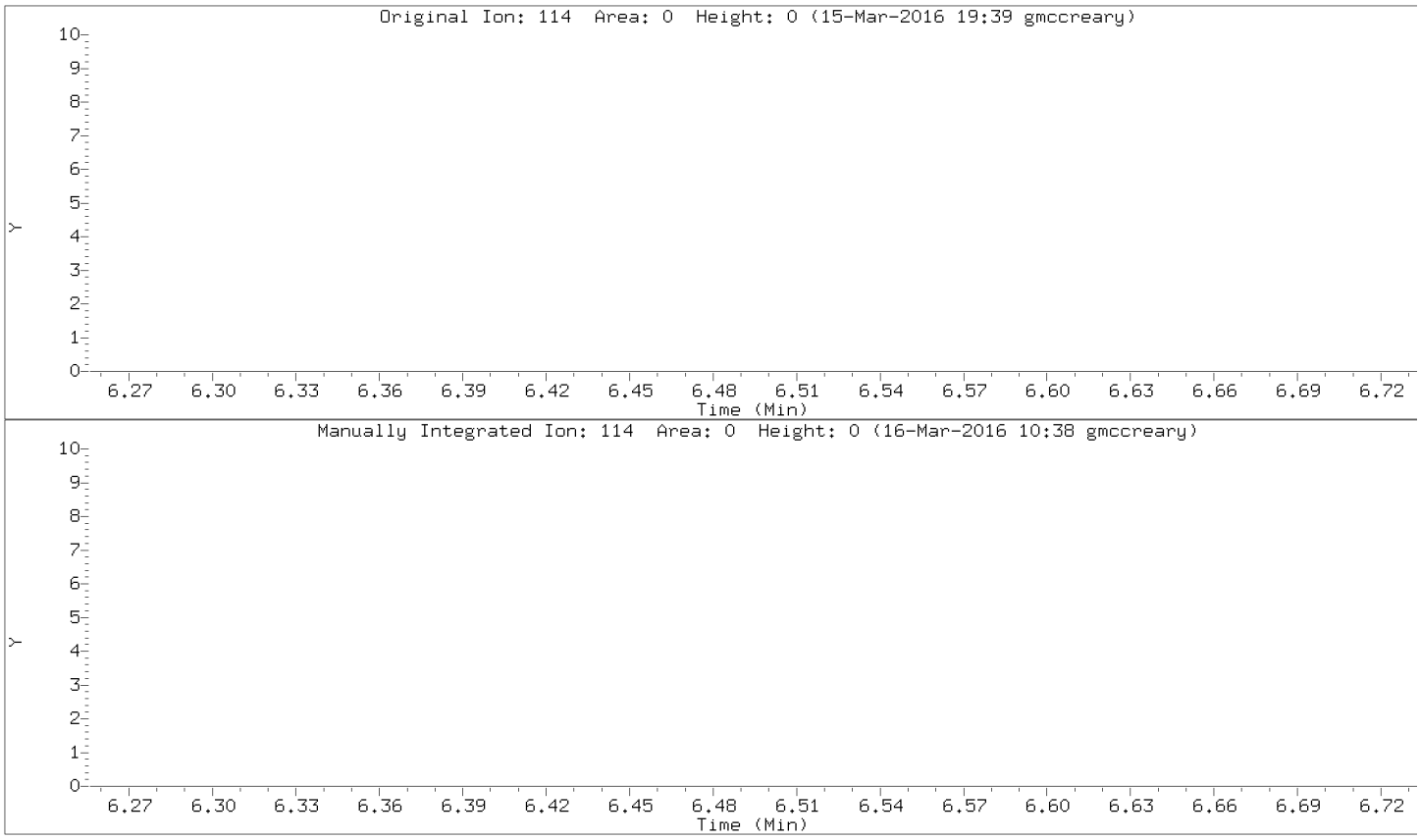








Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a03cal.d
Injection Date: 15-MAR-2016 18:54
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL3,117042:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a04cal.d
Lab Smp Id: 8260-CAL4,117043:0 Client Smp ID: 8260-CAL4,117043:0
Inj Date : 15-MAR-2016 19:29
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal4,117043:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.217)	20885	10.0000	9.20	
2	Chloromethane	50	0.995	0.995	(0.236)	27352	10.0000	9.27	
3	Vinyl Chloride	62	1.047	1.042	(0.248)	24370	10.0000	9.54	
4	Bromomethane	94	1.193	1.189	(0.283)	7535	10.0000	9.91	
5	Chloroethane	64	1.241	1.236	(0.294)	13546	10.0000	9.90	
6	Trichlorofluoromethane	101	1.350	1.351	(0.320)	27183	10.0000	9.31	
7	Diethyl ether	74	1.481	1.476	(0.351)	7814	10.0000	10.6	
8	1,2-dichlorotrifluoroethane	67	1.497	1.497	(0.355)	20165	10.0000	9.80	
9	Acrolein	56	1.554	1.555	(0.369)	33218	200.000	203	
10	1,1,2trichlorotrifluoroethane	101	1.601	1.602	(0.380)	16943	10.0000	9.42	
11	1,1-Dichloroethene	96	1.612	1.607	(0.382)	13883	10.0000	9.94	
12	Acetone	43	1.622	1.623	(0.385)	18808	50.0000	51.4	
13	Iodomethane	142	1.701	1.701	(0.403)	9557	20.0000	17.6	
14	Carbon Disulfide	76	1.748	1.748	(0.415)	47505	10.0000	9.69	
15	Methyl Acetate	43	1.795	1.790	(0.426)	9983	10.0000	9.73	
16	Acetonitrile	39	1.805	1.806	(0.428)	39420	10.0000	9.74	
17	allyl chloride	41	1.805	1.806	(0.428)	53603	20.0000	20.5	
18	Methylene Chloride	84	1.889	1.884	(0.448)	16330	10.0000	10.2	
19	tert-Butyl Alcohol	59	1.920	1.926	(0.456)	2768	20.0000	19.4	
20	Acrylonitrile	53	2.025	2.026	(0.480)	17510	40.0000	41.6	
21	Methyl-tert-butyl ether	73	2.046	2.046	(0.485)	40002	10.0000	10.2	
22	1,2-Dichloroethene (trans)	96	2.062	2.057	(0.489)	15485	10.0000	9.88	
23	n-Hexane	57	2.239	2.240	(0.531)	25877	10.0000	8.71	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.355	2.355	(0.558)	110458	40.0000	39.8	
	25 1,1-Dichloroethane	63	2.370	2.371	(0.562)	31706	10.0000	10.2	
	26 Chloroprene	53	2.423	2.423	(0.575)	29030	10.0000	9.67	
	28 2-Butanone	43	2.836	2.836	(0.673)	29865	50.0000	50.2	
	29 1,2-Dichloroethene (cis)	96	2.851	2.852	(0.676)	17072	10.0000	9.88	
	30 2,2-Dichloropropane	77	2.857	2.857	(0.678)	21831	10.0000	9.45	
	31 Propionitrile	54	2.904	2.894	(0.689)	1579	10.0000	9.88(TQM)	WP
	32 Methacrylonitrile	41	3.045	3.045	(0.722)	8012	10.0000	10.3	
	33 Bromochloromethane	49	3.092	3.087	(0.733)	13732	10.0000	11.1	
	34 Tetrahydrofuran	42	3.108	3.103	(0.737)	3302	10.0000	9.80	
	35 Chloroform	83	3.202	3.202	(0.759)	30277	10.0000	10.2	
	37 1,1,1-Trichloroethane	97	3.374	3.375	(0.800)	25567	10.0000	9.69	
$	38 Dibromofluoromethane (S)	113	3.380	3.380	(0.802)	89209	50.0000	50.8	
	150 n-butyl chloride	56	3.526	3.527	(0.836)	35131	10.0000	9.36(M)	LT
	39 Cyclohexane	56	3.453	3.453	(0.819)	29303	10.0000	9.41	
	40 Carbon Tetrachloride	117	3.552	3.558	(0.842)	19255	10.0000	8.80	
	41 1,1-Dichloropropene	75	3.568	3.568	(0.846)	21671	10.0000	9.47	
	42 Benzene	78	3.814	3.814	(0.904)	62012	10.0000	9.76	
	43 1,2-Dichloroethane	62	3.908	3.903	(0.927)	21687	10.0000	9.79	
	44 Isobutyl alcohol	43	3.981	3.976	(0.944)	11997	10.0000	9.09	
	45 2,2,4-Trimethylpentane	57	3.981	3.976	(0.944)	65434	10.0000	9.45	
*	46 Fluorobenzene (IS)	96	4.216	4.217	(1.000)	349373	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	16858	10.0000	9.66	
	48 Methylcyclohexane	55	4.933	4.928	(1.170)	22469	10.0000	8.78	
	49 1,2-Dichloropropane	63	4.975	4.975	(1.180)	15481	10.0000	9.46	
	52 1,4-Dioxane	88	5.085	5.085	(1.206)	2462	200.000	198	
	50 Dibromomethane	93	5.079	5.075	(1.205)	8968	10.0000	10.5	
	51 Methyl methacrylate	69	5.090	5.090	(1.207)	8211	10.0000	9.57	
	53 Bromodichloromethane	83	5.299	5.300	(1.257)	20791	10.0000	9.61	
	54 2-Chloroethyl vinyl ether	63	5.650	5.650	(0.764)	12710	20.0000	19.1	
	55 cis-1,3-Dichloropropene	75	5.796	5.797	(0.784)	23091	10.0000	9.78	
	56 4-Methyl-2-Pentanone	43	5.969	5.969	(0.808)	63418	50.0000	48.6	
$	57 Toluene-d8	98	6.068	6.068	(0.821)	335903	50.0000	48.9	
	58 Toluene	91	6.141	6.142	(0.831)	69965	10.0000	9.20	
	59 trans-1,3-Dichloropropene	75	6.429	6.429	(0.870)	18700	10.0000	9.58	
	60 Ethyl Methacrylate	69	6.513	6.508	(0.881)	16571	10.0000	9.33	
	61 1,1,2-Trichloroethane	83	6.612	6.612	(0.895)	9997	10.0000	9.59	
	62 Tetrachloroethene	166	6.659	6.659	(0.901)	19553	10.0000	9.24	
	63 1,3-Dichloropropane	76	6.753	6.754	(0.914)	20928	10.0000	10.2	
	64 2-Hexanone	43	6.821	6.822	(0.923)	45954	50.0000	49.0	
	65 Dibromochloromethane	129	6.936	6.937	(0.938)	14537	10.0000	9.68	
	66 1,2-Dibromoethane	107	7.025	7.020	(0.950)	12337	10.0000	9.94	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.392	(1.000)	262545	50.0000		
	68 Chlorobenzene	112	7.412	7.413	(1.003)	46924	10.0000	9.75	
	69 1,1,1,2-Tetrachloroethane	131	7.485	7.491	(1.013)	14204	10.0000	9.10	
	70 Ethylbenzene	106	7.491	7.491	(1.013)	25228	10.0000	9.48	
	71 m&p-Xylene	106	7.590	7.590	(1.027)	63017	20.0000	19.3	
	72 o-Xylene	106	7.851	7.852	(1.062)	31483	10.0000	10.1	
	73 Styrene	104	7.867	7.868	(1.064)	51768	10.0000	10.0	
	74 Bromoform	173	7.987	7.988	(0.899)	9180	10.0000	8.95	
	75 Isopropylbenzene	105	8.092	8.093	(1.095)	81427	10.0000	9.80	
$	76 4-Bromofluorobenzene	95	8.207	8.208	(1.110)	121978	50.0000	50.4	
	77 Bromobenzene	77	8.286	8.286	(1.121)	30312	10.0000	10.3	
	78 1,1,2,2-Tetrachloroethane	83	8.296	8.297	(0.934)	16377	10.0000	9.98	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.317	8.317	(1.125)	4235	10.0000	9.73	
81	1,2,3-Trichloropropane	110	8.327	8.328	(0.937)	4574	10.0000	9.60	
82	n-Propylbenzene	91	8.354	8.354	(0.940)	95291	10.0000	9.38	
83	2-Chlorotoluene	91	8.401	8.401	(0.945)	55891	10.0000	9.58	
84	1,3,5-Trimethylbenzene	105	8.463	8.464	(0.952)	67269	10.0000	9.53	
85	4-Chlorotoluene	126	8.479	8.480	(0.954)	21453	10.0000	9.98	
86	tert-Butylbenzene	119	8.641	8.642	(0.972)	62131	10.0000	9.31	
87	1,2,4-Trimethylbenzene	105	8.678	8.678	(0.976)	70771	10.0000	9.66	
88	sec-Butylbenzene	105	8.767	8.767	(0.986)	88999	10.0000	9.59	
89	1,3-Dichlorobenzene	146	8.840	8.840	(0.995)	41184	10.0000	9.77	
90	p-Isopropyltoluene	119	8.856	8.856	(0.996)	76731	10.0000	9.59	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.882	(1.000)	138735	50.0000		
92	1,4-Dichlorobenzene	146	8.897	8.898	(1.001)	42828	10.0000	9.86	
93	n-Butylbenzene	91	9.075	9.071	(1.021)	72285	10.0000	9.82	
94	1,2-Dichlorobenzene	146	9.091	9.091	(1.023)	38621	10.0000	9.86	
95	1,2-Dibromo-3-chloropropane	155	9.515	9.505	(1.071)	2717	10.0000	10.5	
96	1,2,4-Trichlorobenzene	180	9.933	9.918	(1.118)	31129	10.0000	10.4	
97	Hexachlorobutadiene	225	9.996	9.981	(1.125)	20738	10.0000	10.3	
98	Naphthalene	128	10.074	10.064	(1.134)	59778	10.0000	10.3	
99	1,2,3-Trichlorobenzene	180	10.189	10.179	(1.147)	28881	10.0000	10.3	
100	2,methyl-naphthalene	142	10.718	10.702	(1.206)	36038	10.0000	10.2	
101	1-methylnaphthalene	142	10.838	10.823	(1.220)	33318	10.0000	10.1	

QC Flag Legend

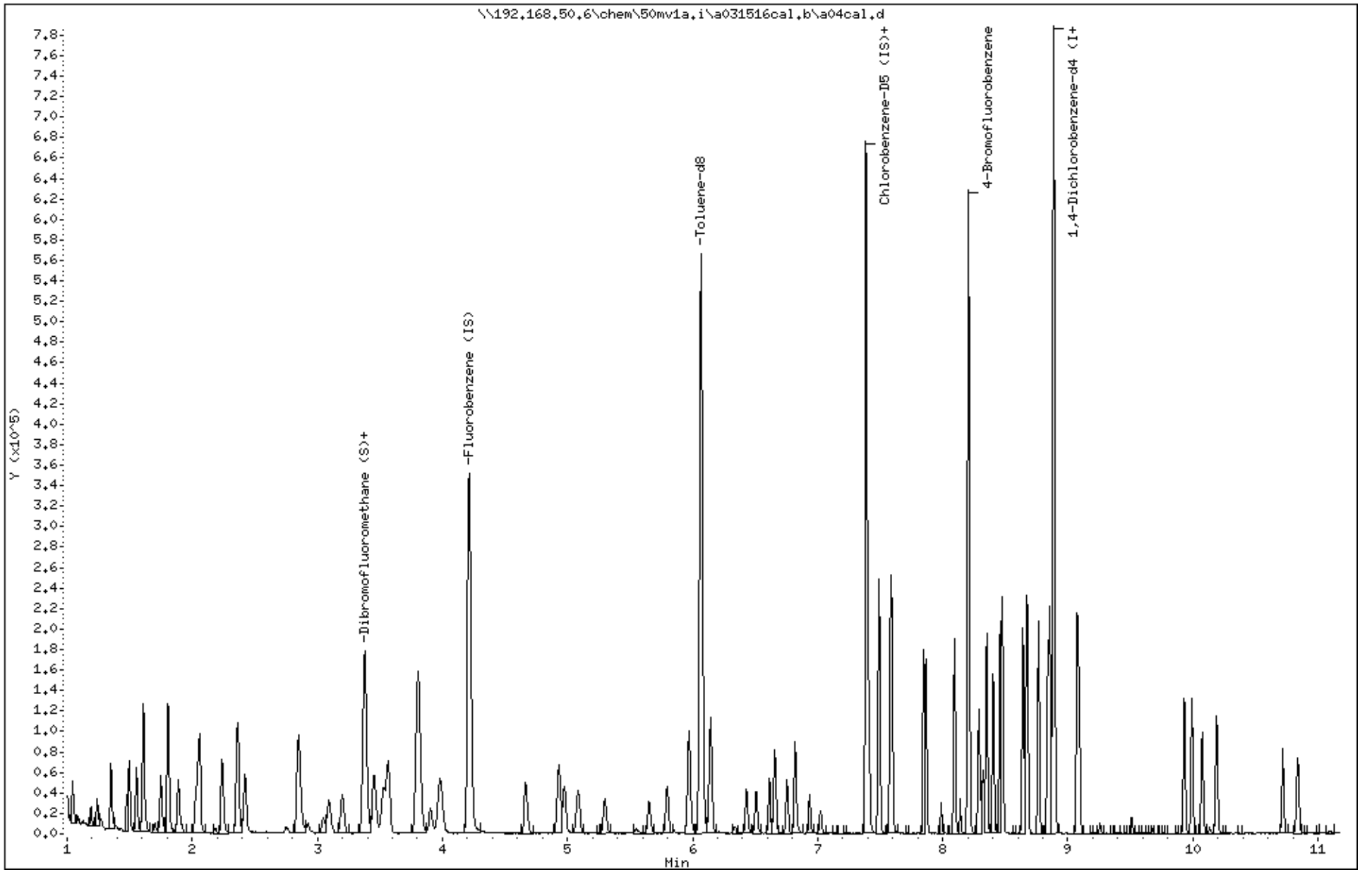
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

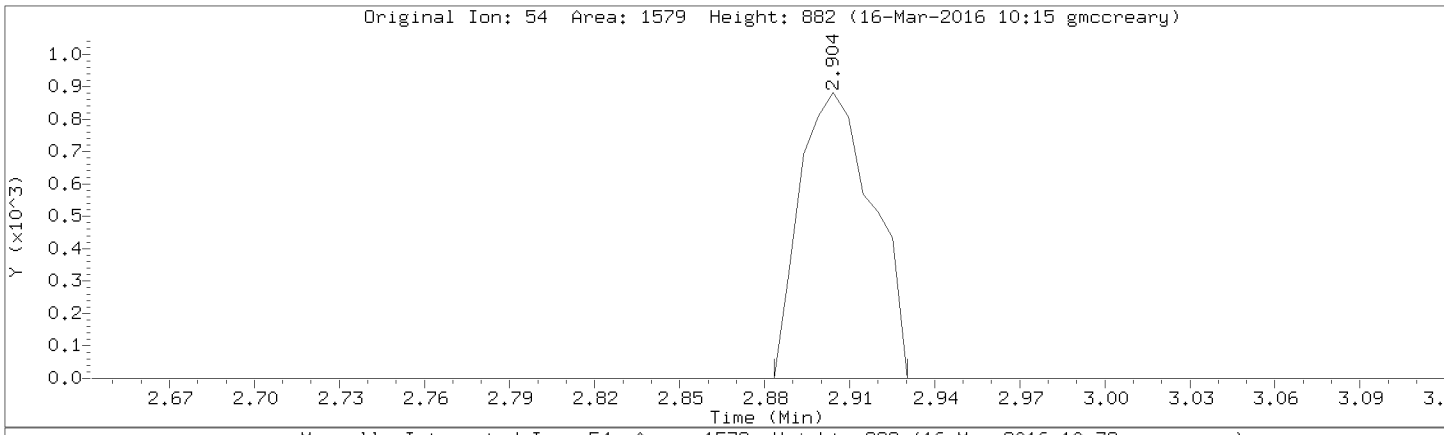
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a04cal.d
Date : 15-MAR-2016 19:29
Client ID: 8260-CAL4,117043:0
Sample Info: 8260-CAL4,117043:0
Purge Volume: 5.0
Column phase: DB-624

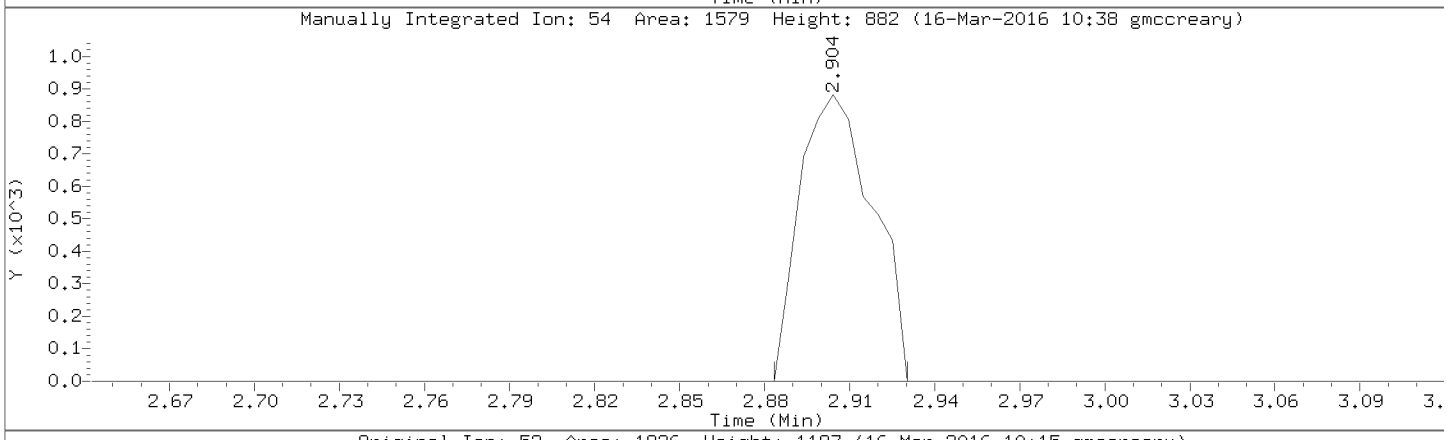
Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18

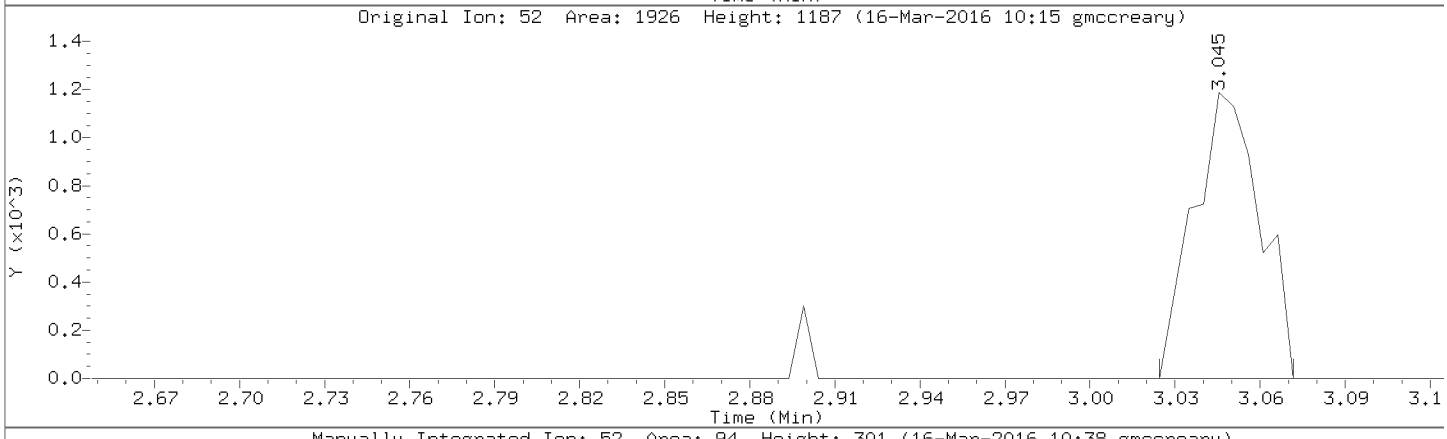


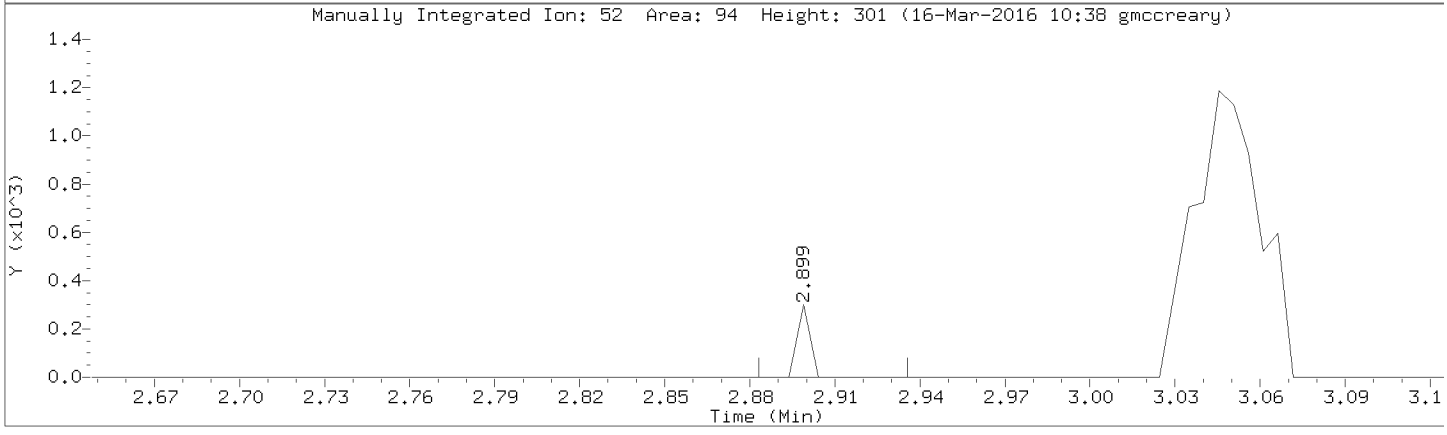
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a04cal.d
Injection Date: 15-MAR-2016 19:29
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL4,117043:0

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

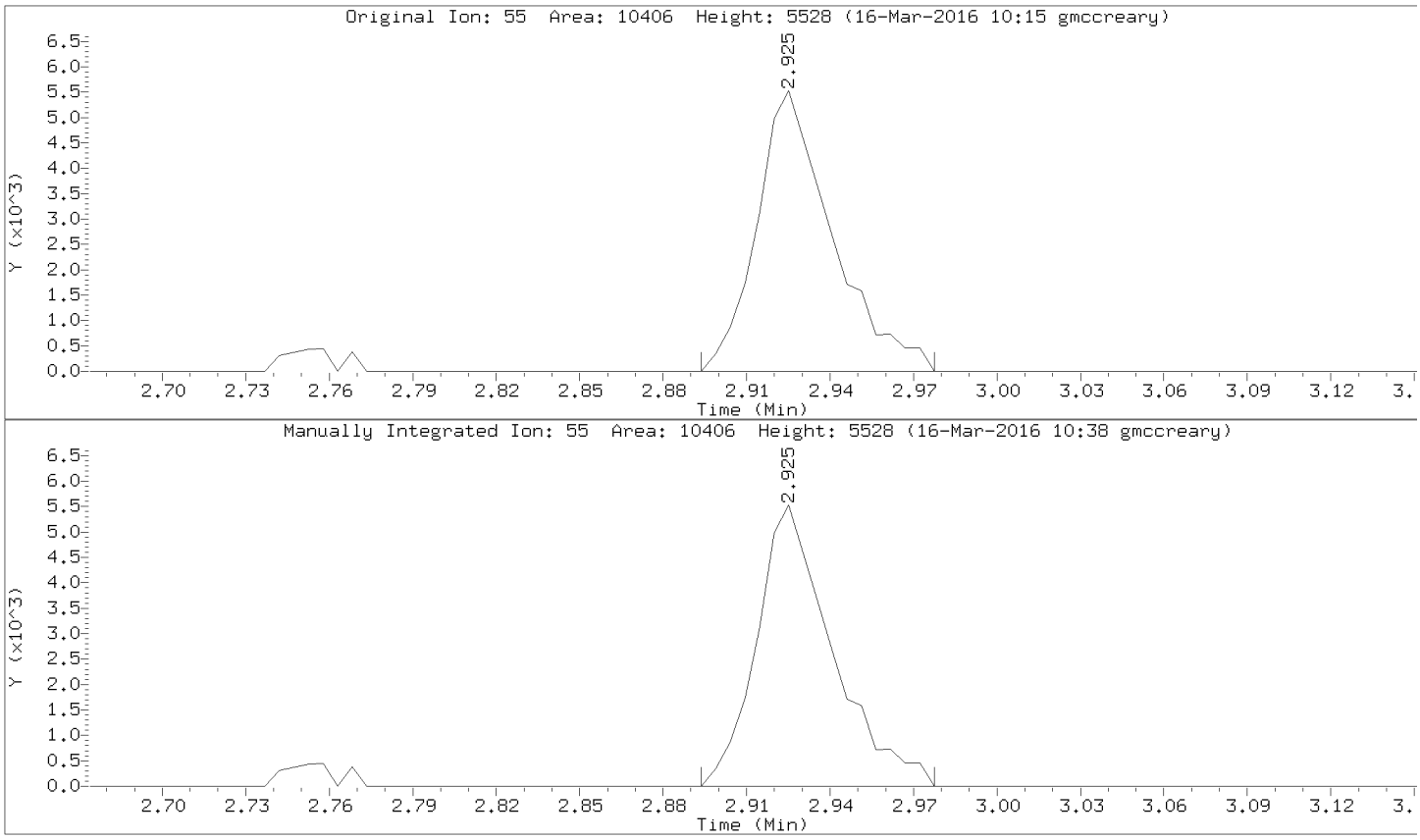






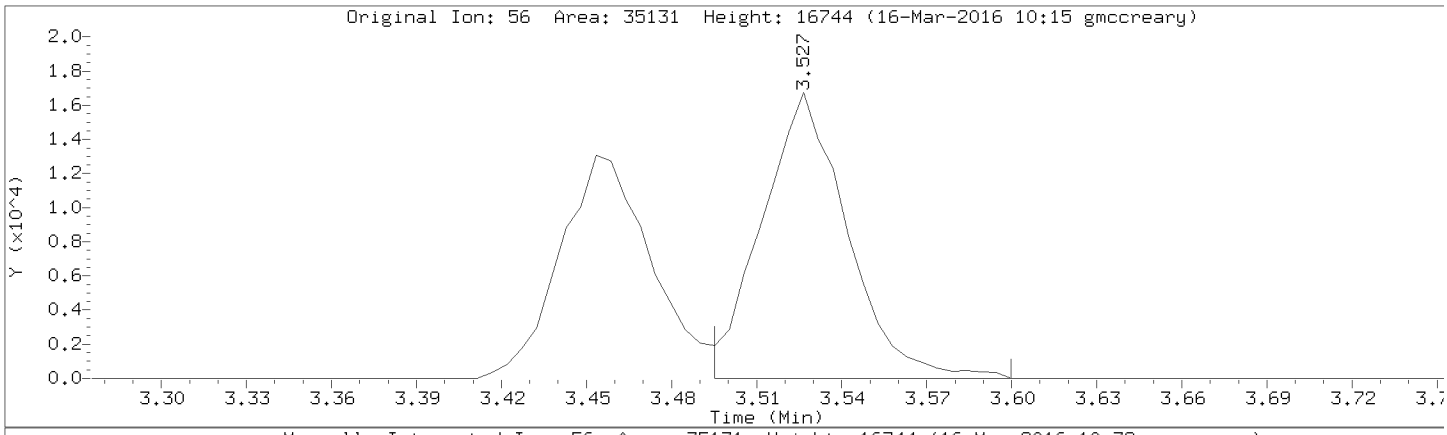


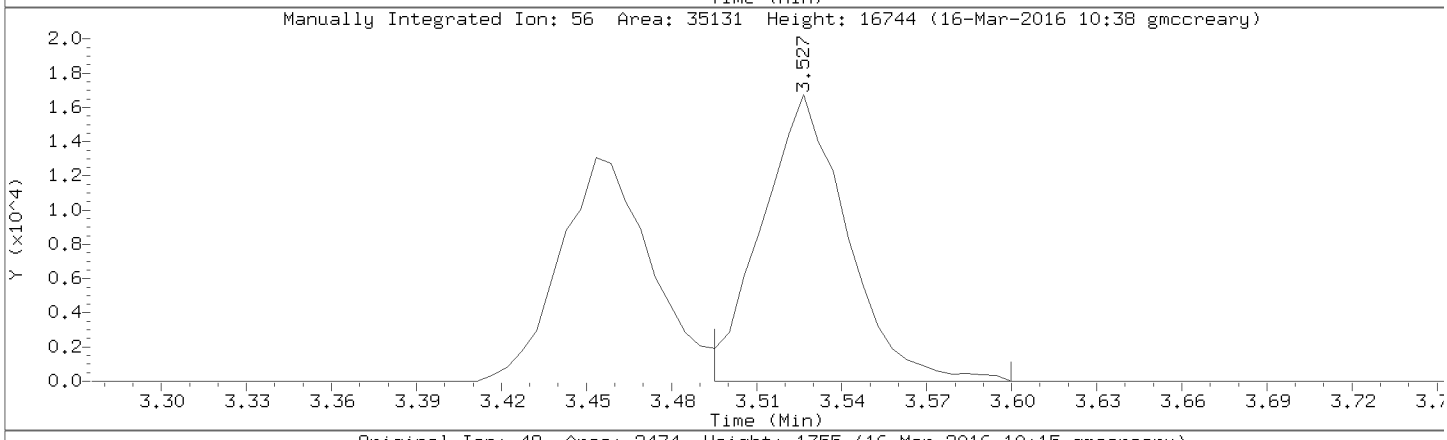
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a04cal.d
Injection Date: 15-MAR-2016 19:29
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL4,117043:0

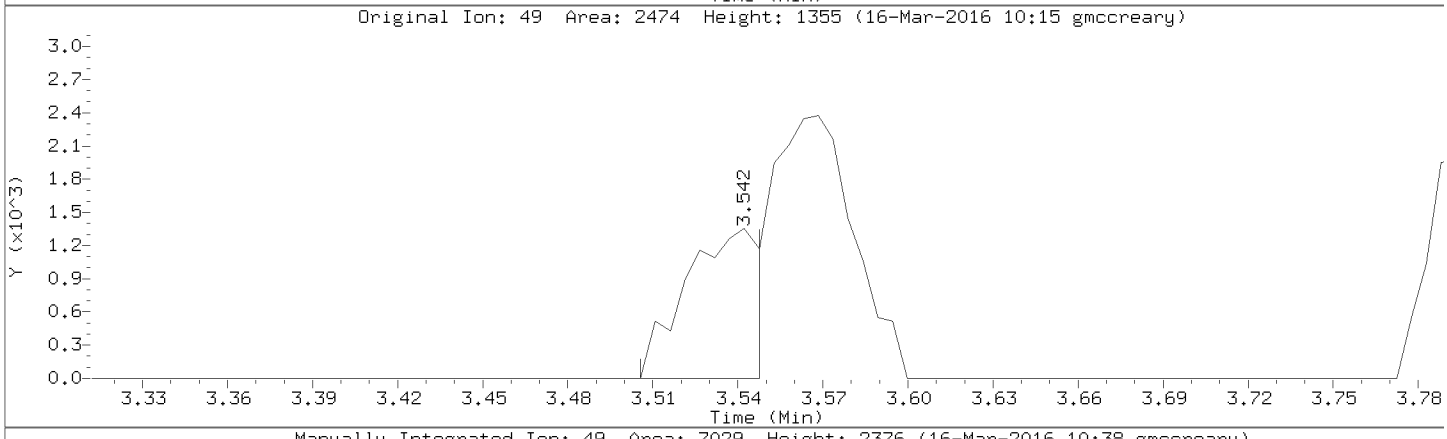


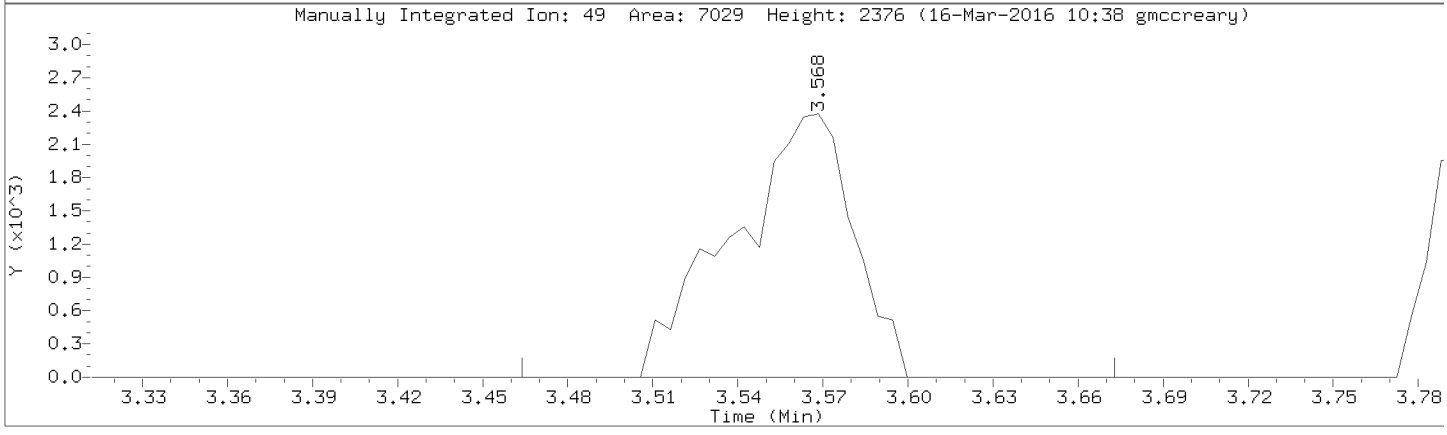
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a04cal.d
Injection Date: 15-MAR-2016 19:29
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL4,117043:0

Compound: n-butyl chloride Review Code: LT
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a05cal.d
Lab Smp Id: 8260-CAL5,117044:0 Client Smp ID: 8260-CAL5,117044:0
Inj Date : 15-MAR-2016 20:04
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal5,117044:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.217)	41696	20.0000	18.0	
2	Chloromethane	50	0.999	0.995	(0.237)	48482	20.0000	16.1	
3	Vinyl Chloride	62	1.047	1.042	(0.248)	45033	20.0000	17.2	
4	Bromomethane	94	1.193	1.189	(0.283)	14126	20.0000	18.2	
5	Chloroethane	64	1.240	1.236	(0.294)	25840	20.0000	18.5	
6	Trichlorofluoromethane	101	1.355	1.351	(0.321)	54620	20.0000	18.3	
7	Diethyl ether	74	1.481	1.476	(0.351)	14908	20.0000	19.7	
8	1,2-dichlorotrifluoroethane	67	1.496	1.497	(0.355)	39305	20.0000	18.7	
9	Acrolein	56	1.554	1.555	(0.369)	67403	400.000	403	
10	1,1,2trichlorotrifluoroethane	101	1.606	1.602	(0.381)	32707	20.0000	17.8	
11	1,1-Dichloroethene	96	1.611	1.607	(0.382)	25961	20.0000	18.2	
12	Acetone	43	1.622	1.623	(0.385)	36358	100.000	97.3	
13	Iodomethane	142	1.700	1.701	(0.403)	24868	40.0000	31.6	
14	Carbon Disulfide	76	1.747	1.748	(0.415)	89923	20.0000	17.9	
15	Methyl Acetate	43	1.794	1.790	(0.426)	21049	20.0000	20.0	
16	Acetonitrile	39	1.810	1.806	(0.429)	78420	20.0000	19.0	
17	allyl chloride	41	1.810	1.806	(0.429)	98111	40.0000	36.8	
18	Methylene Chloride	84	1.889	1.884	(0.448)	30576	20.0000	18.6	
19	tert-Butyl Alcohol	59	1.925	1.926	(0.457)	5714	40.0000	39.2	
20	Acrylonitrile	53	2.025	2.026	(0.480)	35386	80.0000	82.1	
21	Methyl-tert-butyl ether	73	2.045	2.046	(0.485)	78993	20.0000	19.6	
22	1,2-Dichloroethene (trans)	96	2.061	2.057	(0.489)	30319	20.0000	18.9	
23	n-Hexane	57	2.244	2.240	(0.532)	51483	20.0000	17.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.359	2.355	(0.560)	222895	80.0000	78.6	
	25 1,1-Dichloroethane	63	2.370	2.371	(0.562)	59030	20.0000	18.5	
	26 Chloroprene	53	2.422	2.423	(0.575)	55791	20.0000	18.2	
	28 2-Butanone	43	2.835	2.836	(0.673)	57384	100.000	94.3	
	29 1,2-Dichloroethene (cis)	96	2.851	2.852	(0.676)	33345	20.0000	18.9	
	30 2,2-Dichloropropane	77	2.856	2.857	(0.677)	38233	20.0000	16.2	
	31 Propionitrile	54	2.903	2.894	(0.689)	3554	20.0000	21.8(Q)	
	32 Methacrylonitrile	41	3.044	3.045	(0.722)	16419	20.0000	20.7	
	33 Bromochloromethane	49	3.086	3.087	(0.732)	26399	20.0000	20.8	
	34 Tetrahydrofuran	42	3.107	3.103	(0.737)	7156	20.0000	20.8	
	35 Chloroform	83	3.201	3.202	(0.759)	58575	20.0000	19.3	
	37 1,1,1-Trichloroethane	97	3.374	3.375	(0.800)	50742	20.0000	18.8	
$	38 Dibromofluoromethane (S)	113	3.379	3.380	(0.802)	88167	50.0000	49.1	
	150 n-butyl chloride	56	3.526	3.527	(0.836)	70166	20.0000	18.3	
	39 Cyclohexane	56	3.458	3.453	(0.820)	56477	20.0000	17.7	
	40 Carbon Tetrachloride	117	3.557	3.558	(0.844)	37989	20.0000	17.0	
	41 1,1-Dichloropropene	75	3.567	3.568	(0.846)	43004	20.0000	18.4	
	42 Benzene	78	3.818	3.814	(0.906)	121778	20.0000	18.7	
	43 1,2-Dichloroethane	62	3.907	3.903	(0.927)	42136	20.0000	18.6	
	44 Isobutyl alcohol	43	3.981	3.976	(0.944)	24772	20.0000	18.4	
	45 2,2,4-Trimethylpentane	57	3.981	3.976	(0.944)	126096	20.0000	17.8	
*	46 Fluorobenzene (IS)	96	4.216	4.217	(1.000)	357191	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	34149	20.0000	19.1	
	48 Methylcyclohexane	55	4.927	4.928	(1.169)	45879	20.0000	17.5	
	49 1,2-Dichloropropane	63	4.980	4.975	(1.181)	32965	20.0000	19.7	
	52 1,4-Dioxane	88	5.089	5.085	(1.207)	5118	400.000	403	
	50 Dibromomethane	93	5.079	5.075	(1.205)	17684	20.0000	20.3	
	51 Methyl methacrylate	69	5.089	5.090	(1.207)	17224	20.0000	19.6	
	53 Bromodichloromethane	83	5.299	5.300	(1.257)	40843	20.0000	18.5	
	54 2-Chloroethyl vinyl ether	63	5.649	5.650	(0.764)	24360	40.0000	36.8	
	55 cis-1,3-Dichloropropene	75	5.795	5.797	(0.784)	44328	20.0000	18.9	
	56 4-Methyl-2-Pentanone	43	5.968	5.969	(0.808)	127723	100.000	98.5	
$	57 Toluene-d8	98	6.067	6.068	(0.821)	338534	50.0000	49.5	
	58 Toluene	91	6.141	6.142	(0.831)	137492	20.0000	18.2	
	59 trans-1,3-Dichloropropene	75	6.428	6.429	(0.870)	36063	20.0000	18.6	
	60 Ethyl Methacrylate	69	6.512	6.508	(0.881)	34703	20.0000	19.6	
	61 1,1,2-Trichloroethane	83	6.611	6.612	(0.895)	19778	20.0000	19.1	
	62 Tetrachloroethene	166	6.658	6.659	(0.901)	39231	20.0000	18.6	
	63 1,3-Dichloropropane	76	6.753	6.754	(0.914)	40098	20.0000	19.6	
	64 2-Hexanone	43	6.821	6.822	(0.923)	88654	100.000	95.0	
	65 Dibromochloromethane	129	6.941	6.937	(0.939)	27968	20.0000	18.7	
	66 1,2-Dibromoethane	107	7.019	7.020	(0.950)	23795	20.0000	19.3	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.392	(1.000)	261106	50.0000		
	68 Chlorobenzene	112	7.412	7.413	(1.003)	91040	20.0000	19.0	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.491	(1.013)	30219	20.0000	19.5	
	70 Ethylbenzene	106	7.490	7.491	(1.013)	48983	20.0000	18.5	
	71 m&p-Xylene	106	7.589	7.590	(1.027)	121542	40.0000	37.5	
	72 o-Xylene	106	7.851	7.852	(1.062)	59458	20.0000	19.1	
	73 Styrene	104	7.867	7.868	(1.064)	99252	20.0000	19.3	
	74 Bromoform	173	7.987	7.988	(0.899)	18806	20.0000	18.7	
	75 Isopropylbenzene	105	8.091	8.093	(1.095)	157040	20.0000	19.0	
$	76 4-Bromofluorobenzene	95	8.207	8.208	(1.110)	120268	50.0000	50.0	
	77 Bromobenzene	77	8.285	8.286	(1.121)	55315	20.0000	18.9	
	78 1,1,2,2-Tetrachloroethane	83	8.301	8.297	(0.934)	30603	20.0000	19.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.316	8.317	(1.125)	7926	20.0000	18.3	
81	1,2,3-Trichloropropane	110	8.327	8.328	(0.937)	8809	20.0000	18.8	
82	n-Propylbenzene	91	8.353	8.354	(0.940)	187720	20.0000	18.8	
83	2-Chlorotoluene	91	8.405	8.401	(0.946)	108557	20.0000	18.9	
84	1,3,5-Trimethylbenzene	105	8.463	8.464	(0.952)	131272	20.0000	18.9	
85	4-Chlorotoluene	126	8.479	8.480	(0.954)	39030	20.0000	18.5	
86	tert-Butylbenzene	119	8.646	8.642	(0.973)	120887	20.0000	18.4	
87	1,2,4-Trimethylbenzene	105	8.677	8.678	(0.976)	133476	20.0000	18.6	
88	sec-Butylbenzene	105	8.771	8.767	(0.987)	170874	20.0000	18.8	
89	1,3-Dichlorobenzene	146	8.839	8.840	(0.995)	78454	20.0000	19.0	
90	p-Isopropyltoluene	119	8.855	8.856	(0.996)	146453	20.0000	18.6	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.882	(1.000)	136218	50.0000		
92	1,4-Dichlorobenzene	146	8.897	8.898	(1.001)	78727	20.0000	18.5	
93	n-Butylbenzene	91	9.080	9.071	(1.022)	136737	20.0000	18.9	
94	1,2-Dichlorobenzene	146	9.096	9.091	(1.024)	73437	20.0000	19.1	
95	1,2-Dibromo-3-chloropropane	155	9.514	9.505	(1.071)	4469	20.0000	17.7	
96	1,2,4-Trichlorobenzene	180	9.938	9.918	(1.118)	56216	20.0000	19.0	
97	Hexachlorobutadiene	225	10.000	9.981	(1.125)	37839	20.0000	19.1	
98	Naphthalene	128	10.079	10.064	(1.134)	109008	20.0000	19.2	
99	1,2,3-Trichlorobenzene	180	10.194	10.179	(1.147)	51849	20.0000	18.9	
100	2,methyl-naphthalene	142	10.722	10.702	(1.207)	66075	20.0000	19.1	
101	1-methylnaphthalene	142	10.843	10.823	(1.220)	61989	20.0000	19.1	

QC Flag Legend

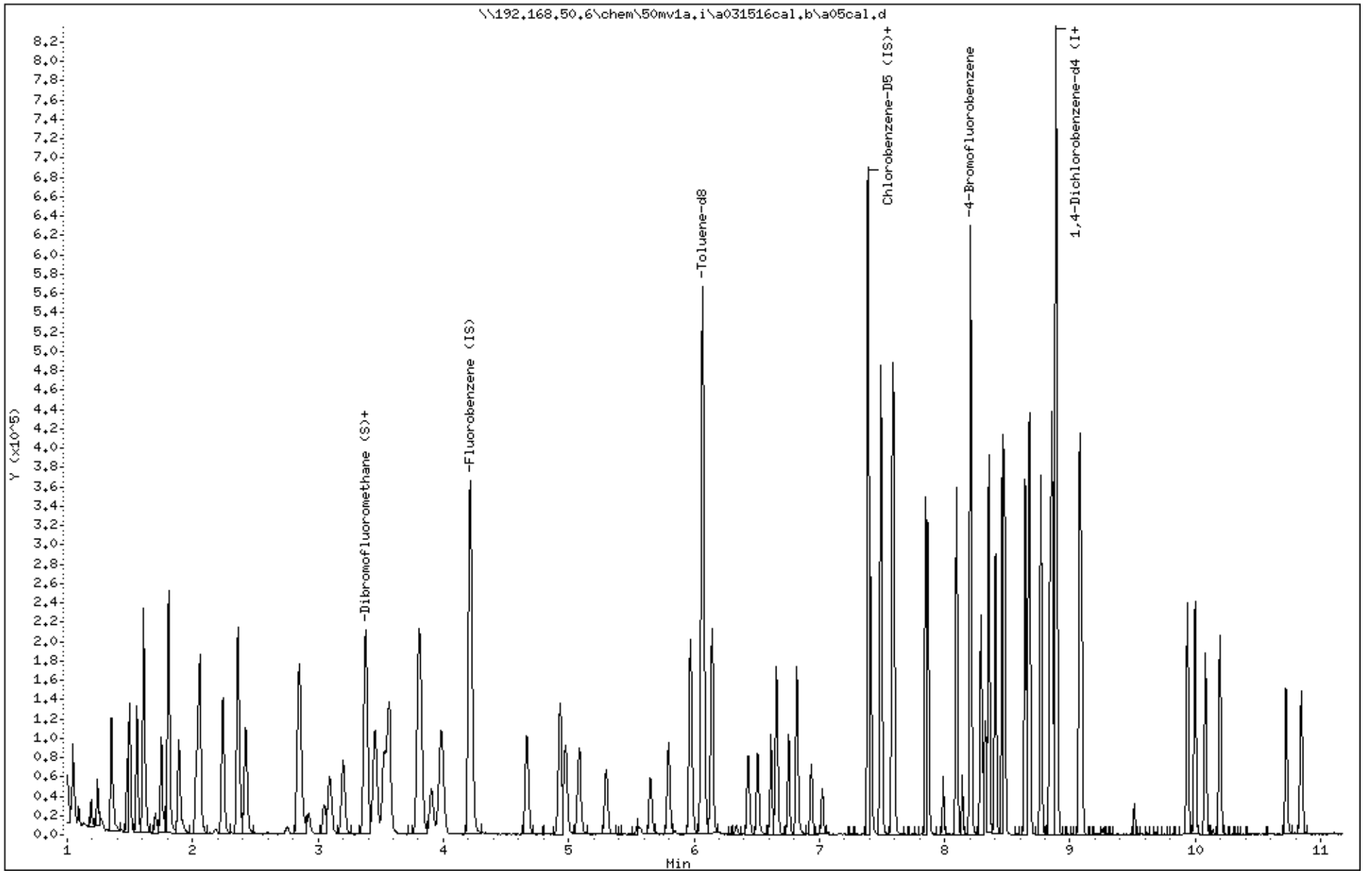
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a05cal.d
Date : 15-MAR-2016 20:04
Client ID: 8260-CAL5,117044:0
Sample Info: 8260-CAL5,117044:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a05cal.d
Injection Date: 15-MAR-2016 20:04
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL5,117044:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a06cal.d
Lab Smp Id: 8260-CAL6,117045:0 Client Smp ID: 8260-CAL6,117045:0
Inj Date : 15-MAR-2016 20:39
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal6,117045:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.914	0.917	(0.217)	133678	50.0000	56.2	
2	Chloromethane	50	0.997	0.995	(0.237)	139939	50.0000	45.2	
3	Vinyl Chloride	62	1.044	1.042	(0.248)	141880	50.0000	53.0	
4	Bromomethane	94	1.191	1.189	(0.283)	38759	50.0000	48.6	
5	Chloroethane	64	1.238	1.236	(0.294)	68036	50.0000	47.5	
6	Trichlorofluoromethane	101	1.353	1.351	(0.321)	166688	50.0000	54.5	
7	Diethyl ether	74	1.479	1.476	(0.351)	39707	50.0000	51.2	
8	1,2-dichlorotrifluoroethane	67	1.494	1.497	(0.355)	118059	50.0000	54.8	
9	Acrolein	56	1.552	1.555	(0.368)	163925	1000.00	956	
10	1,1,2trichlorotrifluoroethane	101	1.604	1.602	(0.381)	101789	50.0000	54.0	
11	1,1-Dichloroethene	96	1.609	1.607	(0.382)	79342	50.0000	54.2	
12	Acetone	43	1.625	1.623	(0.386)	88350	250.000	231	
13	Iodomethane	142	1.698	1.701	(0.403)	106384	100.000	104	
14	Carbon Disulfide	76	1.745	1.748	(0.414)	267288	50.0000	52.0	
15	Methyl Acetate	43	1.792	1.790	(0.425)	51618	50.0000	48.0	
16	Acetonitrile	39	1.808	1.806	(0.429)	232364	50.0000	54.8	
17	allyl chloride	41	1.808	1.806	(0.429)	302210	100.000	110	
18	Methylene Chloride	84	1.887	1.884	(0.448)	77088	50.0000	45.8	
19	tert-Butyl Alcohol	59	1.923	1.926	(0.456)	15479	100.000	104	
20	Acrylonitrile	53	2.022	2.026	(0.480)	90252	200.000	204	
21	Methyl-tert-butyl ether	73	2.043	2.046	(0.485)	211246	50.0000	51.2	
22	1,2-Dichloroethene (trans)	96	2.059	2.057	(0.489)	89431	50.0000	54.4	
23	n-Hexane	57	2.242	2.240	(0.532)	156521	50.0000	50.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.357	2.355	(0.559)	580093	200.000	200	
	25 1,1-Dichloroethane	63	2.368	2.371	(0.562)	167174	50.0000	51.1	
	26 Chloroprene	53	2.425	2.423	(0.576)	170014	50.0000	54.0	
	28 2-Butanone	43	2.833	2.836	(0.672)	161118	250.000	258	
	29 1,2-Dichloroethene (cis)	96	2.849	2.852	(0.676)	93539	50.0000	51.7	
	30 2,2-Dichloropropane	77	2.854	2.857	(0.677)	130484	50.0000	53.9	
	31 Propionitrile	54	2.896	2.894	(0.687)	8912	50.0000	53.2(Q)	
	32 Methacrylonitrile	41	3.048	3.045	(0.723)	41028	50.0000	50.4	
	33 Bromochloromethane	49	3.089	3.087	(0.733)	68405	50.0000	52.6	
	34 Tetrahydrofuran	42	3.105	3.103	(0.737)	19053	50.0000	54.0	
	35 Chloroform	83	3.199	3.202	(0.759)	161793	50.0000	52.0	
	37 1,1,1-Trichloroethane	97	3.377	3.375	(0.801)	150964	50.0000	54.6	
$	38 Dibromofluoromethane (S)	113	3.377	3.380	(0.801)	90568	50.0000	49.2	
	150 n-butyl chloride	56	3.524	3.527	(0.836)	216193	50.0000	54.9	
	39 Cyclohexane	56	3.456	3.453	(0.820)	180140	50.0000	55.2	
	40 Carbon Tetrachloride	117	3.555	3.558	(0.844)	126821	50.0000	55.3	
	41 1,1-Dichloropropene	75	3.565	3.568	(0.846)	131885	50.0000	55.0	
	42 Benzene	78	3.816	3.814	(0.906)	345905	50.0000	51.9	
	43 1,2-Dichloroethane	62	3.905	3.903	(0.927)	115885	50.0000	49.9	
	44 Isobutyl alcohol	43	3.984	3.976	(0.945)	76064	50.0000	55.0	
	45 2,2,4-Trimethylpentane	57	3.984	3.976	(0.945)	401112	50.0000	55.3	
*	46 Fluorobenzene (IS)	96	4.214	4.217	(1.000)	366073	50.0000		
	47 Trichloroethene	95	4.664	4.667	(1.107)	95512	50.0000	52.2	
	48 Methylcyclohexane	55	4.930	4.928	(1.170)	150736	50.0000	56.2	
	49 1,2-Dichloropropane	63	4.978	4.975	(1.181)	90772	50.0000	53.0	
	52 1,4-Dioxane	88	5.082	5.085	(1.206)	14558	1000.00	1120	
	50 Dibromomethane	93	5.072	5.075	(1.204)	45915	50.0000	51.4	
	51 Methyl methacrylate	69	5.087	5.090	(1.207)	47219	50.0000	52.5	
	53 Bromodichloromethane	83	5.302	5.300	(1.258)	118146	50.0000	52.1	
	54 2-Chloroethyl vinyl ether	63	5.652	5.650	(0.765)	70609	100.000	106	
	55 cis-1,3-Dichloropropene	75	5.793	5.797	(0.784)	128174	50.0000	54.3	
	56 4-Methyl-2-Pentanone	43	5.971	5.969	(0.808)	347058	250.000	266	
$	57 Toluene-d8	98	6.071	6.068	(0.822)	347893	50.0000	50.7	
	58 Toluene	91	6.144	6.142	(0.832)	377859	50.0000	49.8	
	59 trans-1,3-Dichloropropene	75	6.426	6.429	(0.870)	105835	50.0000	54.3	
	60 Ethyl Methacrylate	69	6.510	6.508	(0.881)	93539	50.0000	52.7	
	61 1,1,2-Trichloroethane	83	6.615	6.612	(0.895)	57064	50.0000	54.8	
	62 Tetrachloroethene	166	6.662	6.659	(0.902)	114761	50.0000	54.3	
	63 1,3-Dichloropropane	76	6.756	6.754	(0.914)	110651	50.0000	54.0	
	64 2-Hexanone	43	6.819	6.822	(0.923)	244722	250.000	261	
	65 Dibromochloromethane	129	6.939	6.937	(0.939)	80277	50.0000	53.5	
	66 1,2-Dibromoethane	107	7.023	7.020	(0.950)	65627	50.0000	52.9	
*	67 Chlorobenzene-D5 (IS)	117	7.389	7.392	(1.000)	262224	50.0000		
	68 Chlorobenzene	112	7.410	7.413	(1.003)	244518	50.0000	50.9	
	69 1,1,1,2-Tetrachloroethane	131	7.488	7.491	(1.013)	86486	50.0000	55.5	
	70 Ethylbenzene	106	7.493	7.491	(1.014)	139002	50.0000	52.3	
	71 m&p-Xylene	106	7.587	7.590	(1.027)	340279	100.000	104	
	72 o-Xylene	106	7.849	7.852	(1.062)	167182	50.0000	53.5	
	73 Styrene	104	7.865	7.868	(1.064)	280561	50.0000	54.3	
	74 Bromoform	173	7.990	7.988	(0.899)	56298	50.0000	54.5	
	75 Isopropylbenzene	105	8.095	8.093	(1.096)	464022	50.0000	55.9	
$	76 4-Bromofluorobenzene	95	8.205	8.208	(1.110)	123963	50.0000	51.3	
	77 Bromobenzene	77	8.283	8.286	(1.121)	157825	50.0000	53.6	
	78 1,1,2,2-Tetrachloroethane	83	8.299	8.297	(0.934)	85725	50.0000	51.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.320	8.317	(1.126)	25702	50.0000	59.1(Q)	
81	1,2,3-Trichloropropane	110	8.330	8.328	(0.938)	24529	50.0000	51.1	
82	n-Propylbenzene	91	8.351	8.354	(0.940)	546952	50.0000	53.4	
83	2-Chlorotoluene	91	8.403	8.401	(0.946)	303543	50.0000	51.6	
84	1,3,5-Trimethylbenzene	105	8.461	8.464	(0.952)	379246	50.0000	53.3	
85	4-Chlorotoluene	126	8.476	8.480	(0.954)	109890	50.0000	50.7	
86	tert-Butylbenzene	119	8.644	8.642	(0.973)	354352	50.0000	52.7	
87	1,2,4-Trimethylbenzene	105	8.675	8.678	(0.976)	379368	50.0000	51.4	
88	sec-Butylbenzene	105	8.769	8.767	(0.987)	511625	50.0000	54.7	
89	1,3-Dichlorobenzene	146	8.837	8.840	(0.995)	215121	50.0000	50.7	
90	p-Isopropyltoluene	119	8.858	8.856	(0.997)	430431	50.0000	53.4	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.882	(1.000)	139761	50.0000		
92	1,4-Dichlorobenzene	146	8.900	8.898	(1.002)	217753	50.0000	49.8	
93	n-Butylbenzene	91	9.078	9.071	(1.022)	402407	50.0000	54.3	
94	1,2-Dichlorobenzene	146	9.094	9.091	(1.024)	201324	50.0000	51.0	
95	1,2-Dibromo-3-chloropropane	155	9.512	9.505	(1.071)	14782	50.0000	56.9	
96	1,2,4-Trichlorobenzene	180	9.930	9.918	(1.118)	155620	50.0000	51.4	
97	Hexachlorobutadiene	225	9.993	9.981	(1.125)	112131	50.0000	55.2	
98	Naphthalene	128	10.072	10.064	(1.134)	307727	50.0000	52.7	
99	1,2,3-Trichlorobenzene	180	10.192	10.179	(1.147)	142866	50.0000	50.7	
100	2,methyl-naphthalene	142	10.720	10.702	(1.207)	187265	50.0000	52.8	
101	1-methylnaphthalene	142	10.835	10.823	(1.220)	174717	50.0000	52.6	

QC Flag Legend

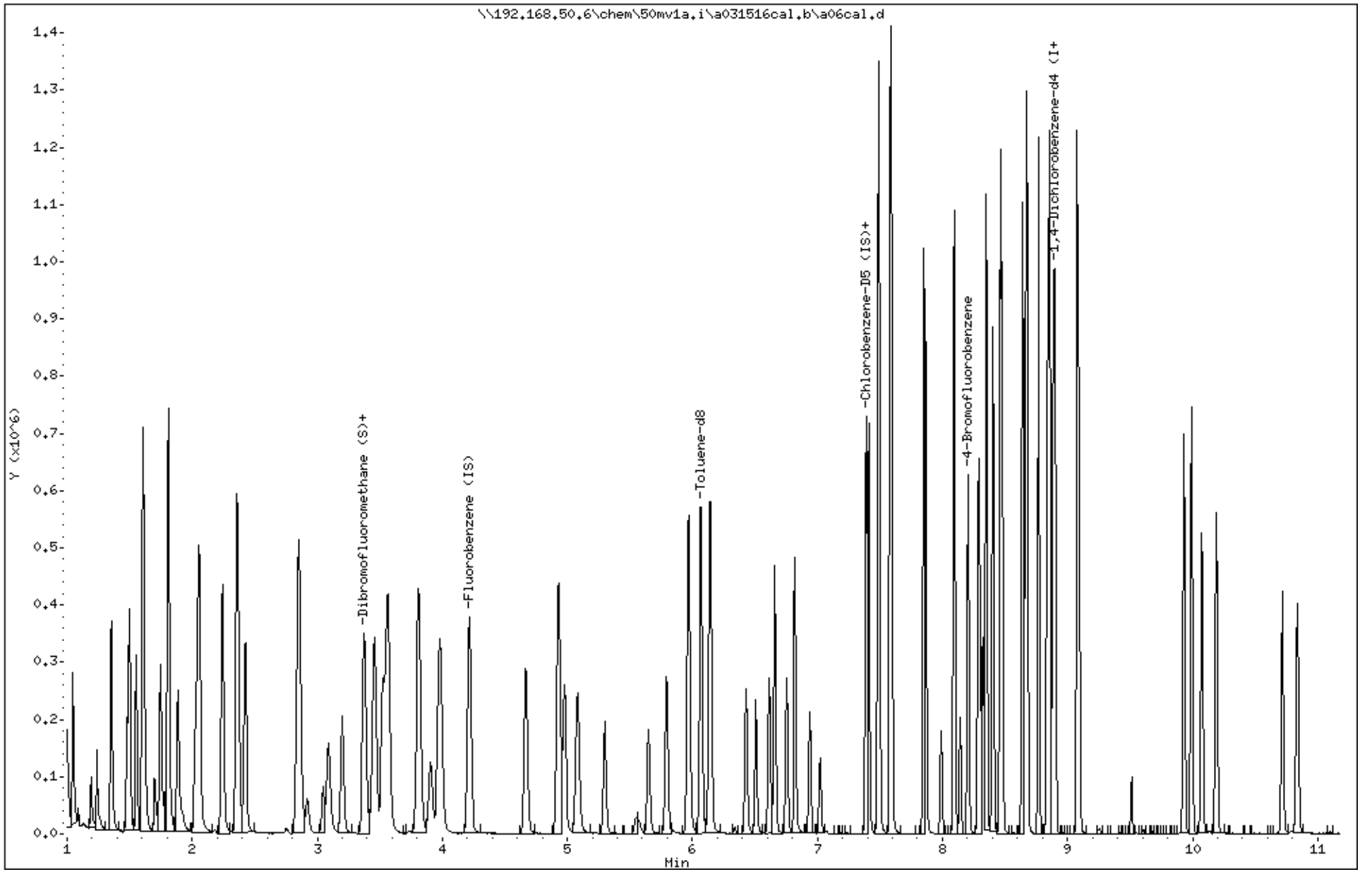
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a06cal.d
Date : 15-MAR-2016 20:39
Client ID: 8260-CAL6,117045:0
Sample Info: 8260-CAL6,117045:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a06cal.d
Injection Date: 15-MAR-2016 20:39
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL6,117045:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a07cal.d
Lab Smp Id: 8260-CAL7,117046:0 Client Smp ID: 8260-CAL7,117046:0
Inj Date : 15-MAR-2016 21:14
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal7,117046:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 15 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.914	0.917	(0.217)	391546	150.000	163	
2	Chloromethane	50	0.992	0.995	(0.236)	485910	150.000	156	
3	Vinyl Chloride	62	1.044	1.042	(0.248)	429988	150.000	159	
4	Bromomethane	94	1.186	1.189	(0.281)	132303	150.000	164	
5	Chloroethane	64	1.233	1.236	(0.293)	196916	150.000	136	
6	Trichlorofluoromethane	101	1.353	1.351	(0.321)	481169	150.000	156	
7	Diethyl ether	74	1.479	1.476	(0.351)	121981	150.000	156	
8	1,2-dichlorotrifluoroethane	67	1.494	1.497	(0.355)	355690	150.000	163	
9	Acrolein	56	1.552	1.555	(0.368)	515319	3000.00	2980	
10	1,1,2trichlorotrifluoroethane	101	1.604	1.602	(0.381)	314524	150.000	165	
11	1,1-Dichloroethene	96	1.609	1.607	(0.382)	245974	150.000	166	
12	Acetone	43	1.625	1.623	(0.386)	261386	750.000	676	
13	Iodomethane	142	1.698	1.701	(0.403)	326231	300.000	300	
14	Carbon Disulfide	76	1.745	1.748	(0.414)	804048	150.000	155	
15	Methyl Acetate	43	1.792	1.790	(0.425)	163677	150.000	151	
16	Acetonitrile	39	1.808	1.806	(0.429)	649348	150.000	152	
17	allyl chloride	41	1.808	1.806	(0.429)	837362	300.000	303	
18	Methylene Chloride	84	1.886	1.884	(0.448)	226878	150.000	133	
19	tert-Butyl Alcohol	59	1.928	1.926	(0.458)	43802	300.000	290(QM)	GT
20	Acrylonitrile	53	2.022	2.026	(0.480)	283577	600.000	636	
21	Methyl-tert-butyl ether	73	2.043	2.046	(0.485)	660385	150.000	159	
22	1,2-Dichloroethene (trans)	96	2.059	2.057	(0.489)	267975	150.000	161	
23	n-Hexane	57	2.242	2.240	(0.532)	474462	150.000	151	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.357	2.355	(0.559)	1934812	600.000	659	
	25 1,1-Dichloroethane	63	2.368	2.371	(0.562)	531991	150.000	161	
	26 Chloroprene	53	2.420	2.423	(0.574)	534193	150.000	168	
	28 2-Butanone	43	2.838	2.836	(0.674)	481644	750.000	764	
	29 1,2-Dichloroethene (cis)	96	2.849	2.852	(0.676)	291620	150.000	160	
	30 2,2-Dichloropropane	77	2.854	2.857	(0.677)	412541	150.000	169	
	31 Propionitrile	54	2.896	2.894	(0.687)	28580	150.000	169	
	32 Methacrylonitrile	41	3.048	3.045	(0.723)	131561	150.000	160	
	33 Bromochloromethane	49	3.089	3.087	(0.733)	182533	150.000	139	
	34 Tetrahydrofuran	42	3.105	3.103	(0.737)	56885	150.000	159	
	35 Chloroform	83	3.199	3.202	(0.759)	502795	150.000	160	
	37 1,1,1-Trichloroethane	97	3.372	3.375	(0.800)	467823	150.000	167	
$	38 Dibromofluoromethane (S)	113	3.377	3.380	(0.801)	91565	50.0000	49.2	
	150 n-butyl chloride	56	3.523	3.527	(0.836)	653450	150.000	164	
	39 Cyclohexane	56	3.455	3.453	(0.820)	540240	150.000	164	
	40 Carbon Tetrachloride	117	3.560	3.558	(0.845)	405679	150.000	175	
	41 1,1-Dichloropropene	75	3.571	3.568	(0.847)	403673	150.000	167	
	42 Benzene	78	3.816	3.814	(0.906)	1079613	150.000	160	
	43 1,2-Dichloroethane	62	3.905	3.903	(0.927)	358934	150.000	153	
	44 Isobutyl alcohol	43	3.984	3.976	(0.945)	243027	150.000	174	
	45 2,2,4-Trimethylpentane	57	3.984	3.976	(0.945)	1272985	150.000	174	
*	46 Fluorobenzene (IS)	96	4.214	4.217	(1.000)	369777	50.0000		
	47 Trichloroethene	95	4.664	4.667	(1.107)	303347	150.000	164	
	48 Methylcyclohexane	55	4.930	4.928	(1.170)	467889	150.000	173	
	49 1,2-Dichloropropane	63	4.977	4.975	(1.181)	279776	150.000	162	
	52 1,4-Dioxane	88	5.077	5.085	(1.205)	42445	3000.00	3230	
	50 Dibromomethane	93	5.077	5.075	(1.205)	146810	150.000	162	
	51 Methyl methacrylate	69	5.087	5.090	(1.207)	149807	150.000	165	
	53 Bromodichloromethane	83	5.302	5.300	(1.258)	375386	150.000	164	
	54 2-Chloroethyl vinyl ether	63	5.652	5.650	(0.765)	239655	300.000	354	
	55 cis-1,3-Dichloropropene	75	5.793	5.797	(0.784)	412766	150.000	172	
	56 4-Methyl-2-Pentanone	43	5.971	5.969	(0.808)	1059652	750.000	798	
$	57 Toluene-d8	98	6.071	6.068	(0.822)	357931	50.0000	51.2	
	58 Toluene	91	6.144	6.142	(0.832)	1211153	150.000	156	
	59 trans-1,3-Dichloropropene	75	6.431	6.429	(0.870)	353348	150.000	178	
	60 Ethyl Methacrylate	69	6.510	6.508	(0.881)	302796	150.000	168	
	61 1,1,2-Trichloroethane	83	6.614	6.612	(0.895)	179617	150.000	169	
	62 Tetrachloroethene	166	6.662	6.659	(0.902)	362103	150.000	168	
	63 1,3-Dichloropropane	76	6.756	6.754	(0.914)	351543	150.000	168	
	64 2-Hexanone	43	6.818	6.822	(0.923)	734684	750.000	770	
	65 Dibromochloromethane	129	6.939	6.937	(0.939)	259424	150.000	170	
	66 1,2-Dibromoethane	107	7.022	7.020	(0.950)	202426	150.000	160	
*	67 Chlorobenzene-D5 (IS)	117	7.389	7.392	(1.000)	267253	50.0000		
	68 Chlorobenzene	112	7.409	7.413	(1.003)	770271	150.000	157	
	69 1,1,1,2-Tetrachloroethane	131	7.488	7.491	(1.013)	283034	150.000	178	
	70 Ethylbenzene	106	7.493	7.491	(1.014)	448950	150.000	166	
	71 m&p-Xylene	106	7.593	7.590	(1.028)	1045154	300.000	315	
	72 o-Xylene	106	7.849	7.852	(1.062)	495422	150.000	156	
	73 Styrene	104	7.870	7.868	(1.065)	855749	150.000	163	
	74 Bromoform	173	7.990	7.988	(0.899)	163746	150.000	180	
	75 Isopropylbenzene	105	8.095	8.093	(1.096)	1251279	150.000	148	
$	76 4-Bromofluorobenzene	95	8.204	8.208	(1.110)	117268	50.0000	47.6	
	77 Bromobenzene	77	8.283	8.286	(1.121)	438259	150.000	146	
	78 1,1,2,2-Tetrachloroethane	83	8.299	8.297	(0.934)	223927	150.000	154	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.320	8.317	(1.126)	69657	150.000	157	
81	1,2,3-Trichloropropane	110	8.330	8.328	(0.938)	66066	150.000	156	
82	n-Propylbenzene	91	8.351	8.354	(0.940)	1495214	150.000	166	
83	2-Chlorotoluene	91	8.403	8.401	(0.946)	824059	150.000	159	
84	1,3,5-Trimethylbenzene	105	8.461	8.464	(0.952)	1026069	150.000	164	
85	4-Chlorotoluene	126	8.476	8.480	(0.954)	296062	150.000	155	
86	tert-Butylbenzene	119	8.644	8.642	(0.973)	1015380	150.000	172	
87	1,2,4-Trimethylbenzene	105	8.675	8.678	(0.976)	1082062	150.000	167	
88	sec-Butylbenzene	105	8.769	8.767	(0.987)	1359723	150.000	165	
89	1,3-Dichlorobenzene	146	8.837	8.840	(0.995)	578362	150.000	155	
90	p-Isopropyltoluene	119	8.853	8.856	(0.996)	1145477	150.000	162	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.882	(1.000)	122956	50.0000	(Q)	
92	1,4-Dichlorobenzene	146	8.900	8.898	(1.002)	575837	150.000	150	
93	n-Butylbenzene	91	9.073	9.071	(1.021)	1059112	150.000	162	
94	1,2-Dichlorobenzene	146	9.088	9.091	(1.023)	504299	150.000	145	
95	1,2-Dibromo-3-chloropropane	155	9.507	9.505	(1.070)	30589	150.000	134	
96	1,2,4-Trichlorobenzene	180	9.920	9.918	(1.117)	331046	150.000	124	
97	Hexachlorobutadiene	225	9.988	9.981	(1.124)	234420	150.000	131	
98	Naphthalene	128	10.066	10.064	(1.133)	629352	150.000	123	
99	1,2,3-Trichlorobenzene	180	10.181	10.179	(1.146)	300856	150.000	121	
100	2,methyl-naphthalene	142	10.704	10.702	(1.205)	373230	150.000	120	
101	1-methylnaphthalene	142	10.825	10.823	(1.218)	387848	150.000	133	

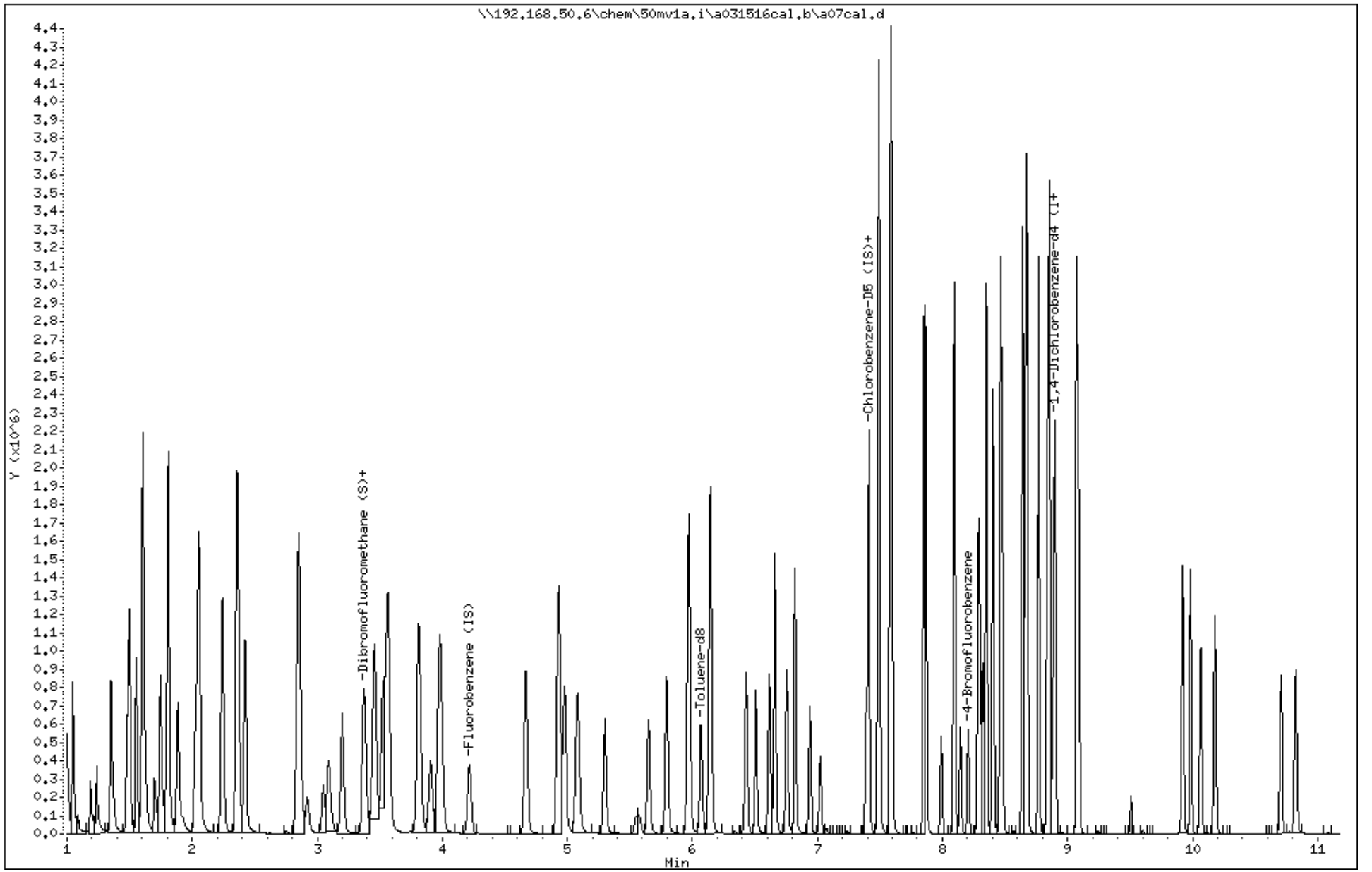
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

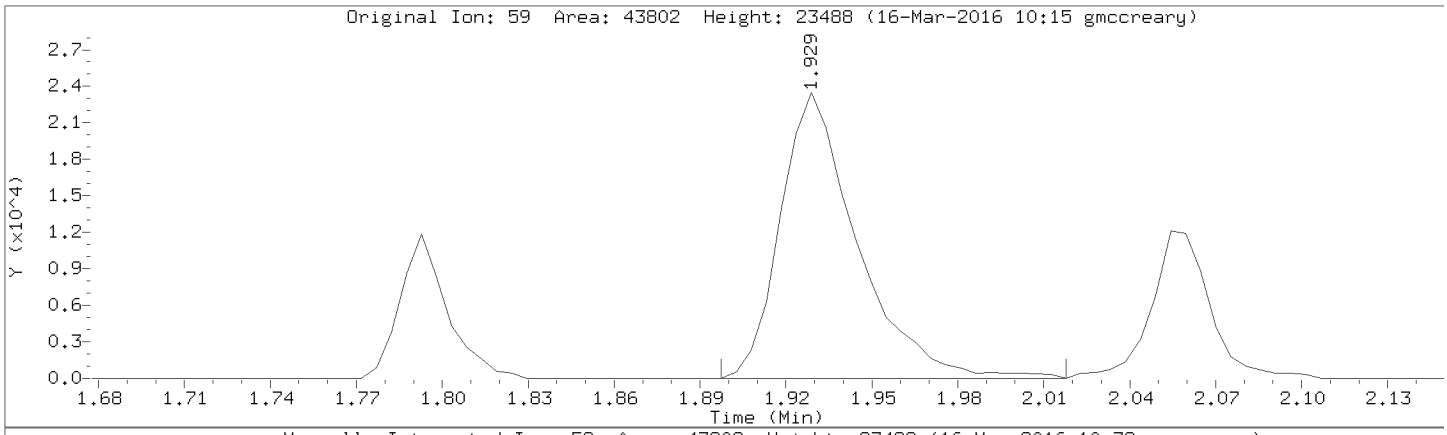
:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

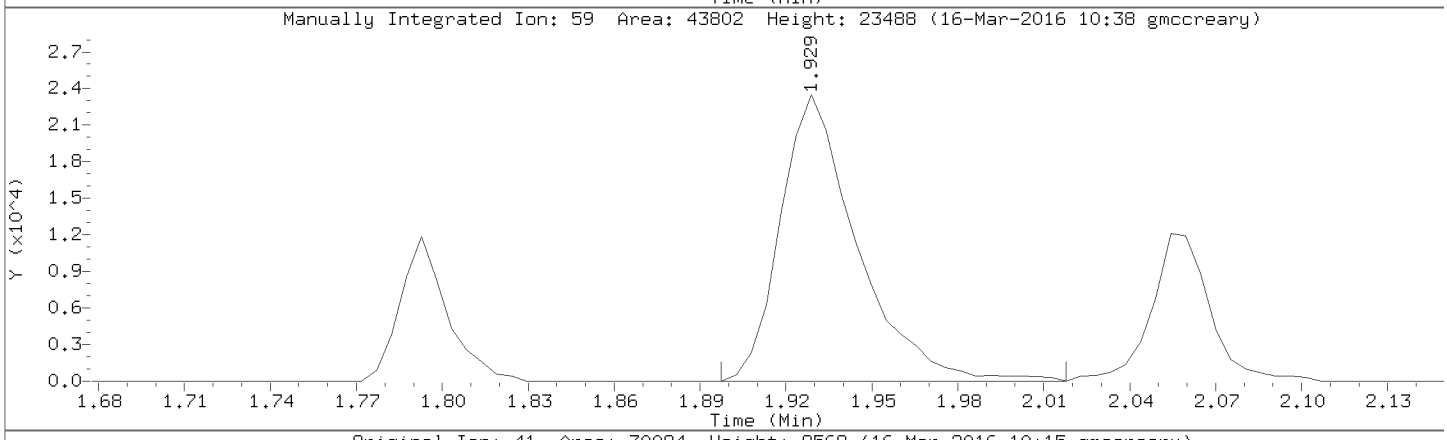
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a07cal.d
Date : 15-MAR-2016 21:14
Client ID: 8260-CAL7,117046:0
Instrument: 50mv1a.i
Sample Info: 8260-CAL7,117046:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

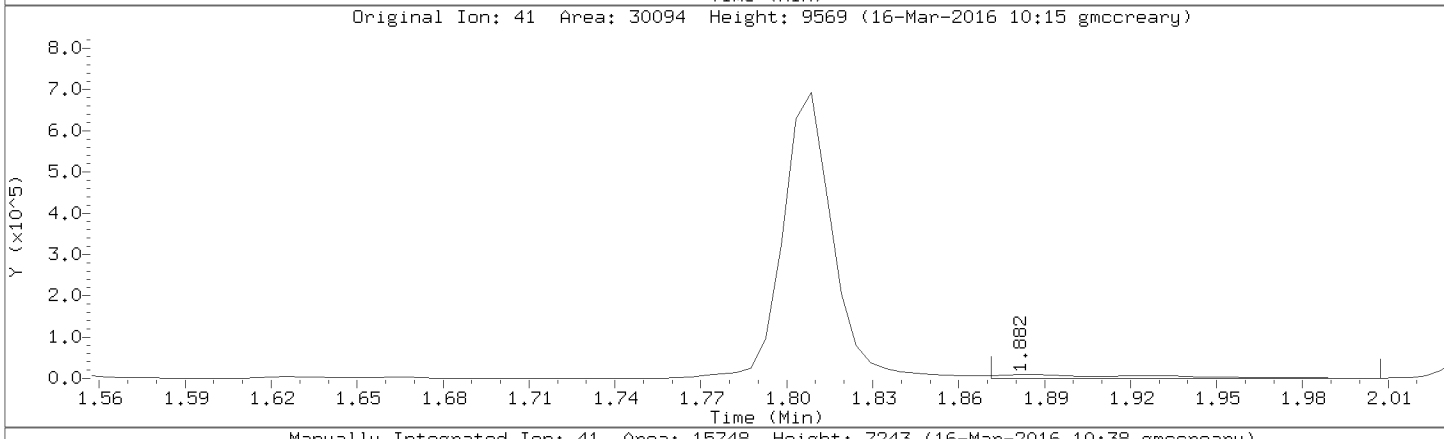


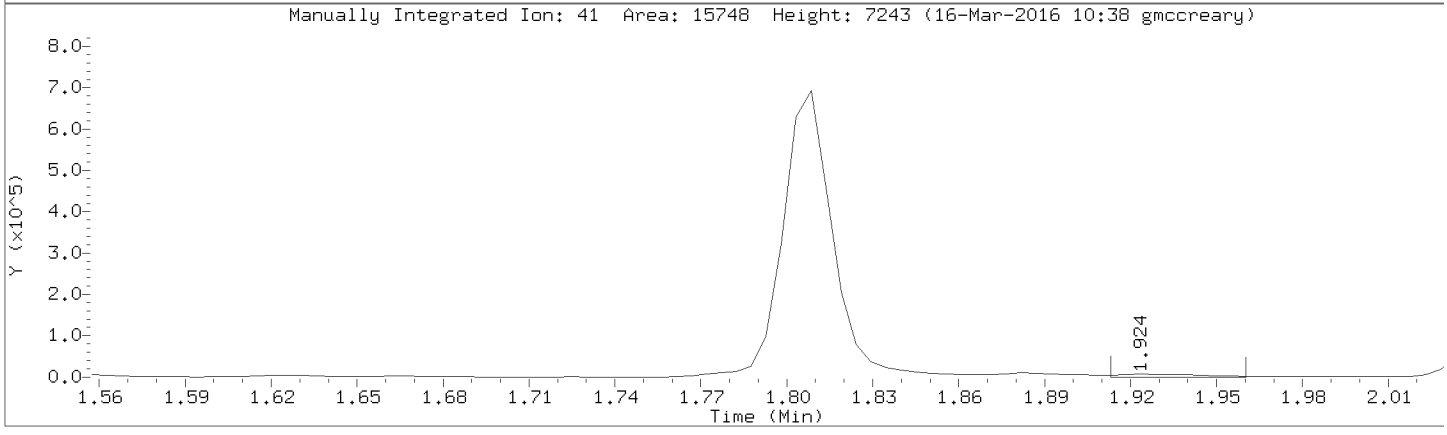
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a07cal.d
Injection Date: 15-MAR-2016 21:14
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL7,117046:0

Compound: tert-Butyl Alcohol Review Code: GT
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a08cal.d
Lab Smp Id: 8260-CAL8,117047:0 Client Smp ID: 8260-CAL8,117047:0
Inj Date : 15-MAR-2016 21:49
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-cal8,117047:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:41 Cal File: a08cal.d
Als bottle: 17 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.217)	900777	300.000	319	
2	Chloromethane	50	0.995	0.995	(0.236)	1321522	300.000	360	
3	Vinyl Chloride	62	1.042	1.042	(0.247)	991761	300.000	312	
4	Bromomethane	94	1.183	1.189	(0.281)	263303	300.000	278	
5	Chloroethane	64	1.230	1.236	(0.292)	447432	300.000	263	
6	Trichlorofluoromethane	101	1.351	1.351	(0.320)	1078862	300.000	297	
7	Diethyl ether	74	1.476	1.476	(0.350)	286207	300.000	311	
8	1,2-dichlorotrifluoroethane	67	1.492	1.497	(0.354)	829774	300.000	324	
9	Acrolein	56	1.555	1.555	(0.369)	1197827	6000.00	5890	
10	1,1,2trichlorotrifluoroethane	101	1.602	1.602	(0.380)	738155	300.000	330	
11	1,1-Dichloroethene	96	1.607	1.607	(0.381)	566967	300.000	326	
12	Acetone	43	1.628	1.623	(0.386)	583227	1500.00	1280	
13	Iodomethane	142	1.696	1.701	(0.402)	623717	600.000	482	
14	Carbon Disulfide	76	1.743	1.748	(0.413)	1912699	300.000	314	
15	Methyl Acetate	43	1.795	1.790	(0.426)	375717	300.000	294	
16	Acetonitrile	39	1.806	1.806	(0.428)	967309	300.000	192	
17	allyl chloride	41	1.806	1.806	(0.428)	1285020	600.000	396	
18	Methylene Chloride	84	1.884	1.884	(0.447)	571660	300.000	286	
19	tert-Butyl Alcohol	59	1.931	1.926	(0.458)	105086	600.000	592(M)	GT
20	Acrylonitrile	53	2.025	2.026	(0.480)	635143	1200.00	1210	
21	Methyl-tert-butyl ether	73	2.046	2.046	(0.485)	1549797	300.000	317	
22	1,2-Dichloroethene (trans)	96	2.057	2.057	(0.488)	628948	300.000	322	
23	n-Hexane	57	2.240	2.240	(0.531)	1098062	300.000	297	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.360	2.355	(0.560)	4645162	1200.00	1350	
	25 1,1-Dichloroethane	63	2.365	2.371	(0.561)	1241048	300.000	320	
	26 Chloroprene	53	2.423	2.423	(0.575)	1229977	300.000	329	
	28 2-Butanone	43	2.841	2.836	(0.674)	1068074	1500.00	1440	
	29 1,2-Dichloroethene (cis)	96	2.852	2.852	(0.676)	683098	300.000	318	
	30 2,2-Dichloropropane	77	2.852	2.857	(0.676)	977806	300.000	340	
	31 Propionitrile	54	2.904	2.894	(0.689)	65811	300.000	331	
	32 Methacrylonitrile	41	3.050	3.045	(0.723)	298093	300.000	309	
	33 Bromochloromethane	49	3.087	3.087	(0.732)	364601	300.000	236	
	34 Tetrahydrofuran	42	3.103	3.103	(0.736)	129279	300.000	308	
	35 Chloroform	83	3.202	3.202	(0.759)	1170552	300.000	317	
	37 1,1,1-Trichloroethane	97	3.375	3.375	(0.800)	1107817	300.000	337	
$	38 Dibromofluoromethane (S)	113	3.380	3.380	(0.802)	109050	50.0000	49.9	
	150 n-butyl chloride	56	3.526	3.527	(0.836)	1529106	300.000	327	
	39 Cyclohexane	56	3.453	3.453	(0.819)	1260340	300.000	325	
	40 Carbon Tetrachloride	117	3.558	3.558	(0.844)	954763	300.000	351	
	41 1,1-Dichloropropene	75	3.568	3.568	(0.846)	937498	300.000	329	
	42 Benzene	78	3.814	3.814	(0.904)	2520471	300.000	319	
	43 1,2-Dichloroethane	62	3.908	3.903	(0.927)	826234	300.000	300	
	44 Isobutyl alcohol	43	3.981	3.976	(0.944)	548092	300.000	334	
	45 2,2,4-Trimethylpentane	57	3.981	3.976	(0.944)	2894088	300.000	336	
*	46 Fluorobenzene (IS)	96	4.217	4.217	(1.000)	434574	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	684625	300.000	315	
	48 Methylcyclohexane	55	4.928	4.928	(1.169)	1074175	300.000	337	
	49 1,2-Dichloropropane	63	4.975	4.975	(1.180)	644820	300.000	317	
	52 1,4-Dioxane	88	5.080	5.085	(1.205)	92812	6000.00	6010	
	50 Dibromomethane	93	5.074	5.075	(1.203)	330356	300.000	311	
	51 Methyl methacrylate	69	5.090	5.090	(1.207)	335604	300.000	314	
	53 Bromodichloromethane	83	5.299	5.300	(1.257)	866213	300.000	322	
	54 2-Chloroethyl vinyl ether	63	5.650	5.650	(0.764)	567861	600.000	728	
	55 cis-1,3-Dichloropropene	75	5.796	5.797	(0.784)	967678	300.000	349	
	56 4-Methyl-2-Pentanone	43	5.974	5.969	(0.808)	2302423	1500.00	1500	
$	57 Toluene-d8	98	6.068	6.068	(0.821)	411066	50.0000	51.0	
	58 Toluene	91	6.141	6.142	(0.831)	2710277	300.000	304	
	59 trans-1,3-Dichloropropene	75	6.429	6.429	(0.870)	833622	300.000	364	
	60 Ethyl Methacrylate	69	6.507	6.508	(0.880)	675077	300.000	324	
	61 1,1,2-Trichloroethane	83	6.617	6.612	(0.895)	404749	300.000	331	
	62 Tetrachloroethene	166	6.659	6.659	(0.901)	810822	300.000	326	
	63 1,3-Dichloropropane	76	6.753	6.754	(0.914)	798812	300.000	332	
	64 2-Hexanone	43	6.821	6.822	(0.923)	1609771	1500.00	1460	
	65 Dibromochloromethane	129	6.936	6.937	(0.938)	603702	300.000	343	
	66 1,2-Dibromoethane	107	7.020	7.020	(0.950)	462810	300.000	318	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.392	(1.000)	308094	50.0000		
	68 Chlorobenzene	112	7.412	7.413	(1.003)	1758113	300.000	311	
	69 1,1,1,2-Tetrachloroethane	131	7.491	7.491	(1.013)	648366	300.000	354	
	70 Ethylbenzene	106	7.491	7.491	(1.013)	1006870	300.000	322	
	71 m&p-Xylene	106	7.590	7.590	(1.027)	2523975	600.000	659	
	72 o-Xylene	106	7.852	7.852	(1.062)	1217221	300.000	332	
	73 Styrene	104	7.867	7.868	(1.064)	2075362	300.000	342	
	74 Bromoform	173	7.988	7.988	(0.899)	418118	300.000	344	
	75 Isopropylbenzene	105	8.097	8.093	(1.096)	3309301	300.000	339	
$	76 4-Bromofluorobenzene	95	8.207	8.208	(1.110)	150067	50.0000	52.9	
	77 Bromobenzene	77	8.286	8.286	(1.121)	1110542	300.000	321	
	78 1,1,2,2-Tetrachloroethane	83	8.301	8.297	(0.935)	550463	300.000	283	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80 trans-1,4-Dichloro-2-butene	53	8.317	8.317	(1.125)	171019	300.000	335	
81 1,2,3-Trichloropropane	110	8.328	8.328	(0.938)	159820	300.000	283	
82 n-Propylbenzene	91	8.354	8.354	(0.941)	3917994	300.000	325	
83 2-Chlorotoluene	91	8.406	8.401	(0.946)	2187397	300.000	316	
84 1,3,5-Trimethylbenzene	105	8.464	8.464	(0.953)	2718071	300.000	325	
85 4-Chlorotoluene	126	8.479	8.480	(0.955)	786622	300.000	309	
86 tert-Butylbenzene	119	8.641	8.642	(0.973)	2555253	300.000	323	
87 1,2,4-Trimethylbenzene	105	8.678	8.678	(0.977)	2698772	300.000	311	
88 sec-Butylbenzene	105	8.767	8.767	(0.987)	3588214	300.000	326	
89 1,3-Dichlorobenzene	146	8.840	8.840	(0.995)	1498185	300.000	300	
90 p-Isopropyltoluene	119	8.856	8.856	(0.997)	3012502	300.000	318	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.882	(1.000)	164410	50.0000	(Q)	
92 1,4-Dichlorobenzene	146	8.898	8.898	(1.002)	1491193	300.000	290	
93 n-Butylbenzene	91	9.075	9.071	(1.022)	2799792	300.000	321	
94 1,2-Dichlorobenzene	146	9.091	9.091	(1.024)	1347961	300.000	290	
95 1,2-Dibromo-3-chloropropane	155	9.504	9.505	(1.070)	90129	300.000	295	
96 1,2,4-Trichlorobenzene	180	9.918	9.918	(1.117)	1036295	300.000	291	
97 Hexachlorobutadiene	225	9.980	9.981	(1.124)	740860	300.000	310	
98 Naphthalene	128	10.059	10.064	(1.132)	1919621	300.000	280	
99 1,2,3-Trichlorobenzene	180	10.174	10.179	(1.145)	929546	300.000	280	
100 2,methyl-naphthalene	142	10.697	10.702	(1.204)	1235146	300.000	296	
101 1-methylnaphthalene	142	10.817	10.823	(1.218)	1110576	300.000	284	

QC Flag Legend

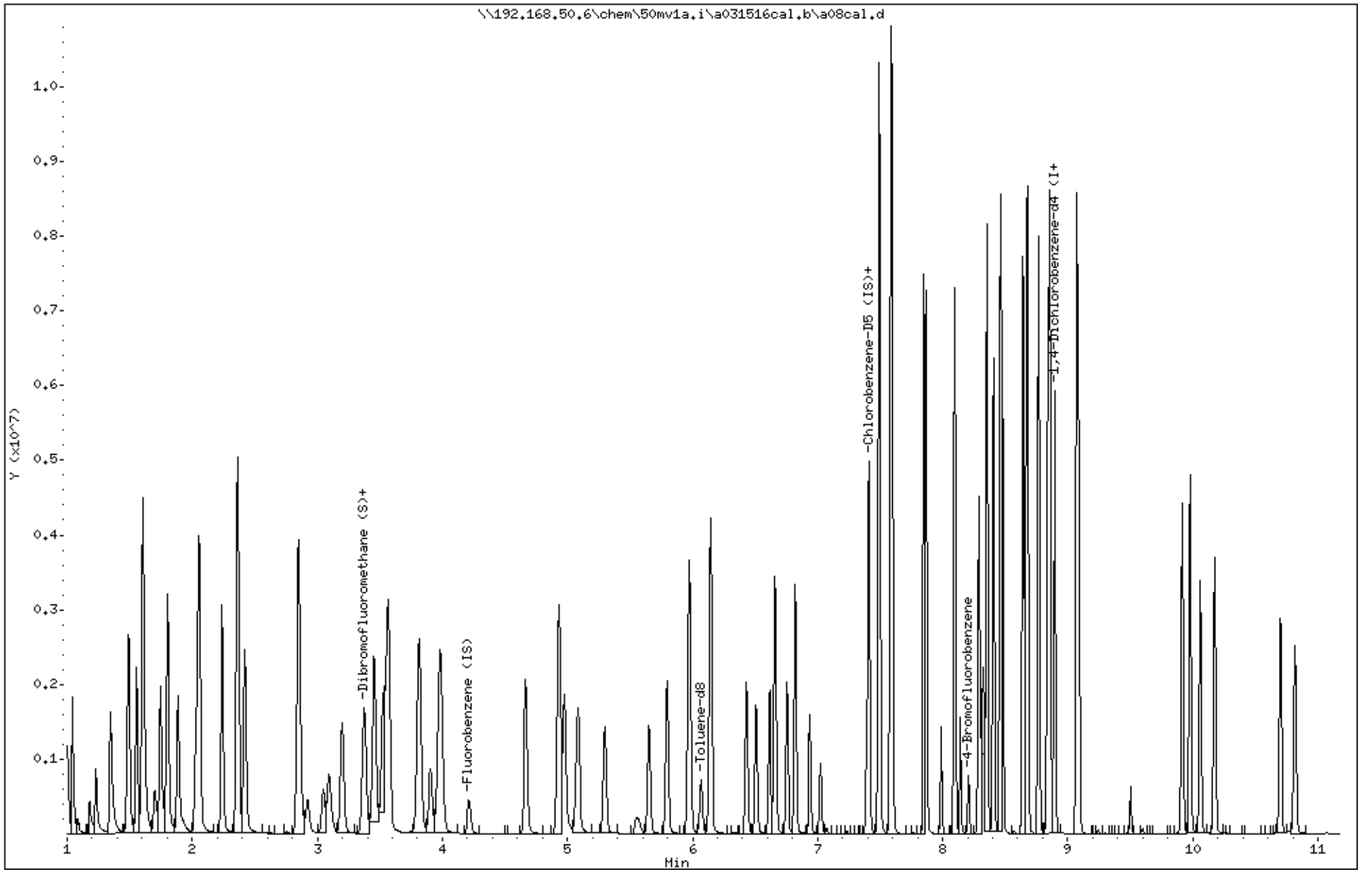
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
GT: Indicates that the peak in question was inappropriately integrated to an area greater than it should be (e.g., Peak tailing).

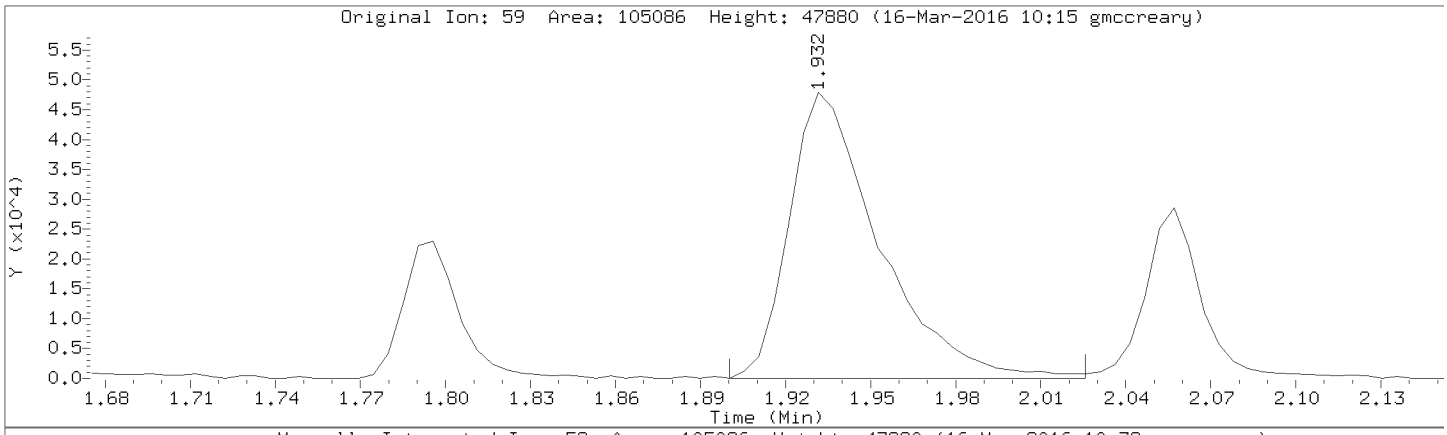
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a08cal.d
Date : 15-MAR-2016 21:49
Client ID: 8260-CAL8,117047:0
Sample Info: 8260-CAL8,117047:0
Purge Volume: 5.0
Column phase: DB-624

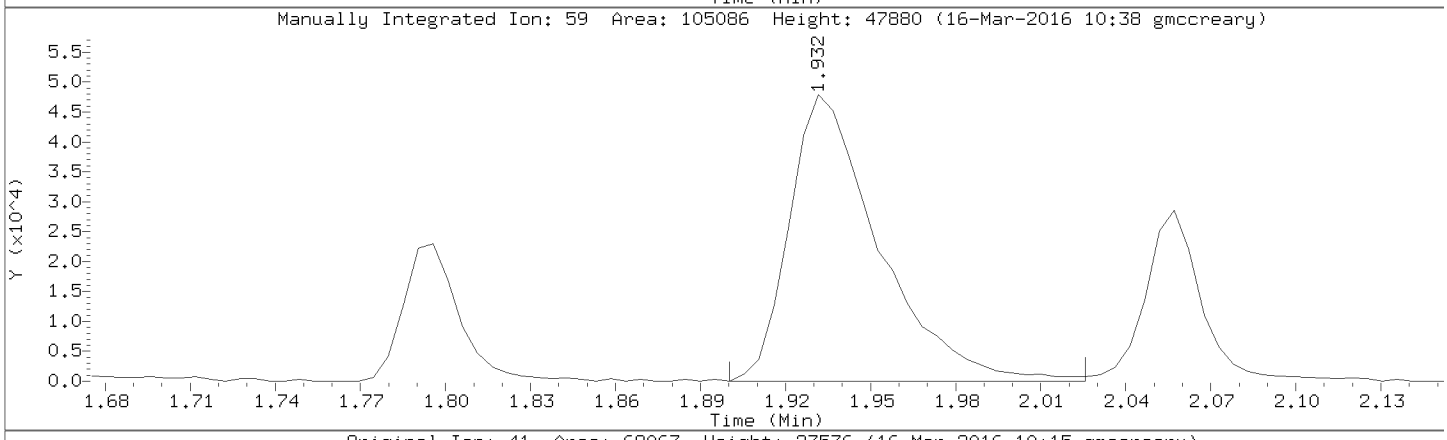
Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18

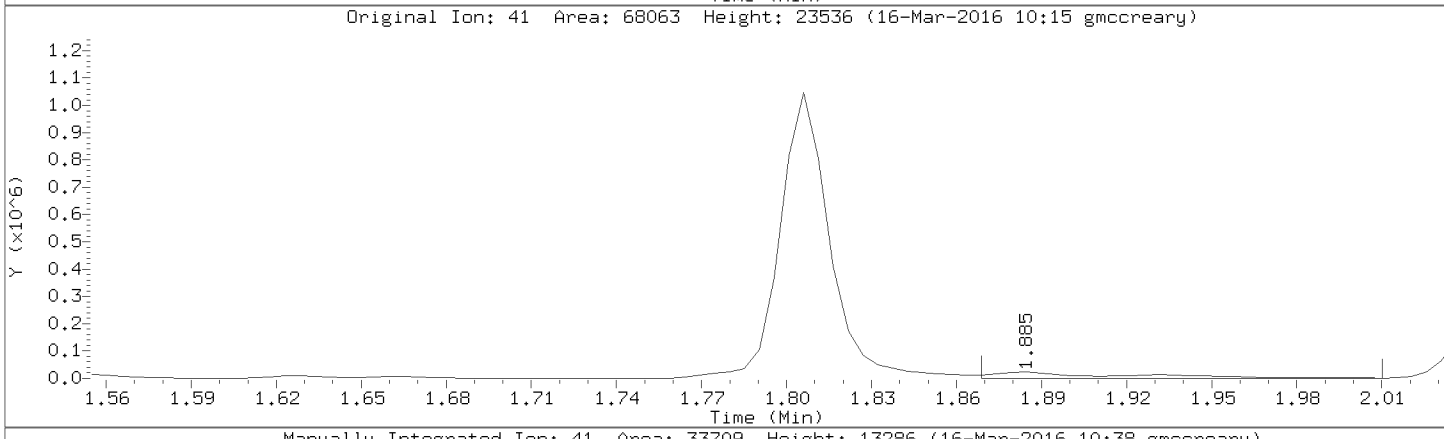


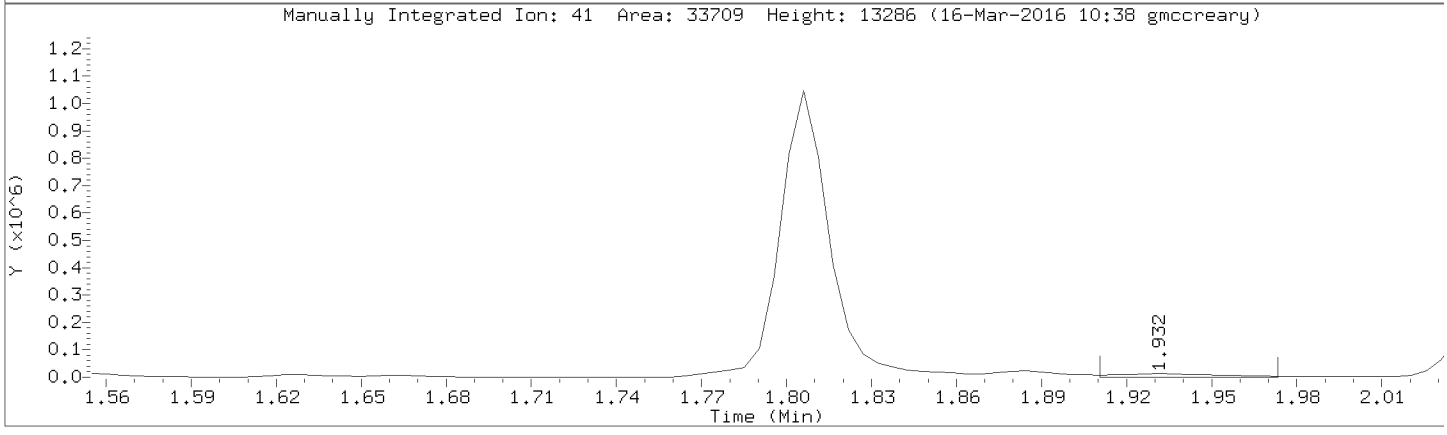
Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/a08cal.d
Injection Date: 15-MAR-2016 21:49
Instrument: 50mv1a.i
Lab Sample ID: 8260-CAL8,117047:0

Compound: tert-Butyl Alcohol Review Code: GT
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b01cal.d
Lab Smp Id: 8260-CAL1,117040:0 Client Smp ID: 8260-CAL1,117040:0
Inj Date : 15-MAR-2016 18:01
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal1,117040:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.934	0.931	(0.221)	1996	1.00000	0.952(T)	
2	Chloromethane	50	1.013	1.015	(0.240)	4544	1.00000	1.45	
3	Vinyl Chloride	62	1.060	1.062	(0.251)	2398	1.00000	0.996	
4	Bromomethane	94	1.211	1.208	(0.286)	1308	1.00000	1.38(Q)	
5	Chloroethane	64	1.253	1.255	(0.296)	1244	1.00000	0.994	
6	Trichlorofluoromethane	101	1.368	1.371	(0.324)	2297	1.00000	0.911	
7	Diethyl ether	74	1.499	1.496	(0.355)	558	1.00000	0.888(Q)	
8	1,2-dichlorotrifluoroethane	67	1.515	1.512	(0.358)	1673	1.00000	0.925	
9	Acrolein	56	1.572	1.575	(0.372)	2412	20.0000	17.2	
10	1,1,2trichlorotrifluoroethane	101	1.619	1.622	(0.383)	1209	1.00000	0.794	
11	1,1-Dichloroethene	96	1.625	1.627	(0.384)	1213	1.00000	0.998	
12	Acetone	43	1.640	1.642	(0.388)	2225	5.00000	7.09	
13	Iodomethane	142	1.719	1.716	(0.406)	1412	2.00000	1.14	
14	Carbon Disulfide	76	1.761	1.763	(0.416)	5348	1.00000	1.23	
17	allyl chloride	41	1.823	1.826	(0.431)	4934	2.00000	2.14	
18	Methylene Chloride	84	1.907	1.904	(0.451)	4818	1.00000	3.21	
20	Acrylonitrile	53	2.043	2.045	(0.483)	1102	4.00000	3.06	
21	Methyl-tert-butyl ether	73	2.069	2.066	(0.489)	3284	1.00000	0.984	
22	1,2-Dichloroethene (trans)	96	2.074	2.077	(0.491)	1376	1.00000	0.993	
25	Vinyl Acetate	43	2.383	2.375	(0.564)	8425	4.00000	3.57	
29	1,2-Dichloroethene (cis)	96	2.869	2.872	(0.678)	1256	1.00000	0.870(Q)	
33	Bromochloromethane	49	3.110	3.107	(0.735)	1048	1.00000	0.980	
35	Chloroform	83	3.220	3.217	(0.761)	2664	1.00000	1.03	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	37 1,1,1-Trichloroethane	97	3.392	3.395	(0.802)	2297	1.00000	0.986	
$	38 Dibromofluoromethane (S)	113	3.398	3.395	(0.803)	71633	50.0000	52.5	
	39 Cyclohexane	56	3.471	3.473	(0.821)	2489	1.00000	0.927	
	42 Benzene	78	3.832	3.834	(0.906)	5103	1.00000	0.956	
	45 2,2,4-Trimethylpentane	57	3.994	4.001	(0.944)	4515	1.00000	0.775	
*	46 Fluorobenzene (IS)	96	4.229	4.231	(1.000)	262564	50.0000		
	47 Trichloroethene	95	4.674	4.676	(1.105)	1160	1.00000	0.827	
	49 1,2-Dichloropropane	63	4.993	4.990	(1.181)	1398	1.00000	1.01	
	50 Dibromomethane	93	5.087	5.084	(1.203)	513	1.00000	0.692(Q)	
	55 cis-1,3-Dichloropropene	75	5.803	5.800	(0.785)	1779	1.00000	0.845	
	56 4-Methyl-2-Pentanone	43	5.976	5.978	(0.808)	4623	5.00000	4.48	
$	57 Toluene-d8	98	6.075	6.078	(0.822)	257523	50.0000	49.7	
	58 Toluene	91	6.149	6.151	(0.832)	6940	1.00000	1.09	
	59 trans-1,3-Dichloropropene	75	6.436	6.433	(0.871)	1388	1.00000	0.801	
	61 1,1,2-Trichloroethane	83	6.619	6.622	(0.895)	481	1.00000	0.544(Q)	
	62 Tetrachloroethene	166	6.666	6.663	(0.902)	1428	1.00000	0.826	
	63 1,3-Dichloropropane	76	6.761	6.758	(0.914)	1461	1.00000	0.845	
	65 Dibromochloromethane	129	6.944	6.941	(0.939)	1078	1.00000	0.841	
	66 1,2-Dibromoethane	107	7.027	7.024	(0.950)	797	1.00000	0.755	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.390	(1.000)	199544	50.0000		
	68 Chlorobenzene	112	7.414	7.411	(1.003)	4089	1.00000	0.999(Q)	
	69 1,1,1,2-Tetrachloroethane	131	7.493	7.490	(1.013)	1145	1.00000	0.850	
	70 Ethylbenzene	106	7.493	7.495	(1.013)	2025	1.00000	0.902(Q)	
	71 m&p-Xylene	106	7.592	7.589	(1.027)	5432	2.00000	1.93	
	72 o-Xylene	106	7.848	7.851	(1.062)	2751	1.00000	1.000	
	73 Styrene	104	7.869	7.866	(1.064)	4214	1.00000	0.924	
	75 Isopropylbenzene	105	8.094	8.096	(1.095)	6948	1.00000	0.896	
$	76 4-Bromofluorobenzene	95	8.204	8.206	(1.110)	93092	50.0000	51.4	
	77 Bromobenzene	77	8.288	8.285	(1.121)	2728	1.00000	1.05	
	80 trans-1,4-Dichloro-2-butene	53	8.319	8.316	(1.125)	143	1.00000	0.373(QM)	WP
	82 n-Propylbenzene	91	8.356	8.353	(0.941)	8609	1.00000	1.01	
	83 2-Chlorotoluene	91	8.403	8.405	(0.946)	5024	1.00000	1.03	
	84 1,3,5-Trimethylbenzene	105	8.460	8.463	(0.952)	6098	1.00000	1.05	
	85 4-Chlorotoluene	126	8.481	8.478	(0.955)	1662	1.00000	0.957(Q)	
	86 tert-Butylbenzene	119	8.643	8.646	(0.973)	5011	1.00000	0.897	
	87 1,2,4-Trimethylbenzene	105	8.680	8.677	(0.977)	6418	1.00000	1.06	
	88 sec-Butylbenzene	105	8.769	8.766	(0.987)	7667	1.00000	0.982	
	89 1,3-Dichlorobenzene	146	8.837	8.839	(0.995)	3538	1.00000	0.982	
	90 p-Isopropyltoluene	119	8.853	8.855	(0.996)	6744	1.00000	0.977	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.886	(1.000)	104690	50.0000	(Q)	
	92 1,4-Dichlorobenzene	146	8.900	8.897	(1.002)	3593	1.00000	0.994(Q)	
	93 n-Butylbenzene	91	9.077	9.075	(1.022)	6150	1.00000	0.986	
	94 1,2-Dichlorobenzene	146	9.093	9.090	(1.024)	3547	1.00000	1.12	
	96 1,2,4-Trichlorobenzene	180	9.930	9.922	(1.118)	3050	1.00000	1.12	
	97 Hexachlorobutadiene	225	9.993	9.985	(1.125)	1710	1.00000	0.901	
	98 Naphthalene	128	10.071	10.063	(1.134)	6207	1.00000	1.16	
	99 1,2,3-Trichlorobenzene	180	10.186	10.178	(1.147)	2852	1.00000	1.09	
	100 2,methyl-naphthalene	142	10.720	10.706	(1.207)	4276	1.00000	1.19	
	101 1-methylnaphthalene	142	10.835	10.821	(1.220)	3774	1.00000	1.16	

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

QC Flag Legend

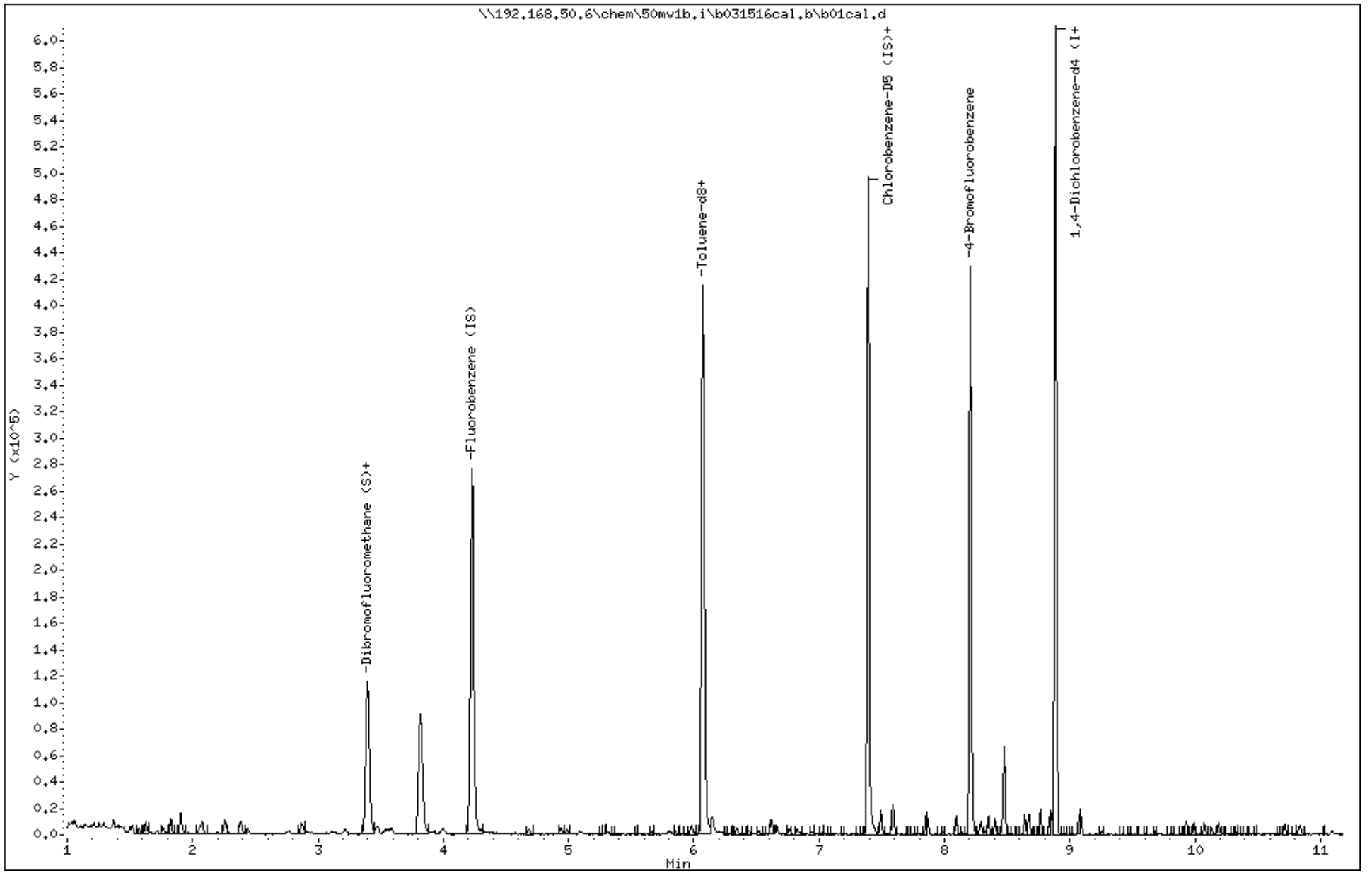
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

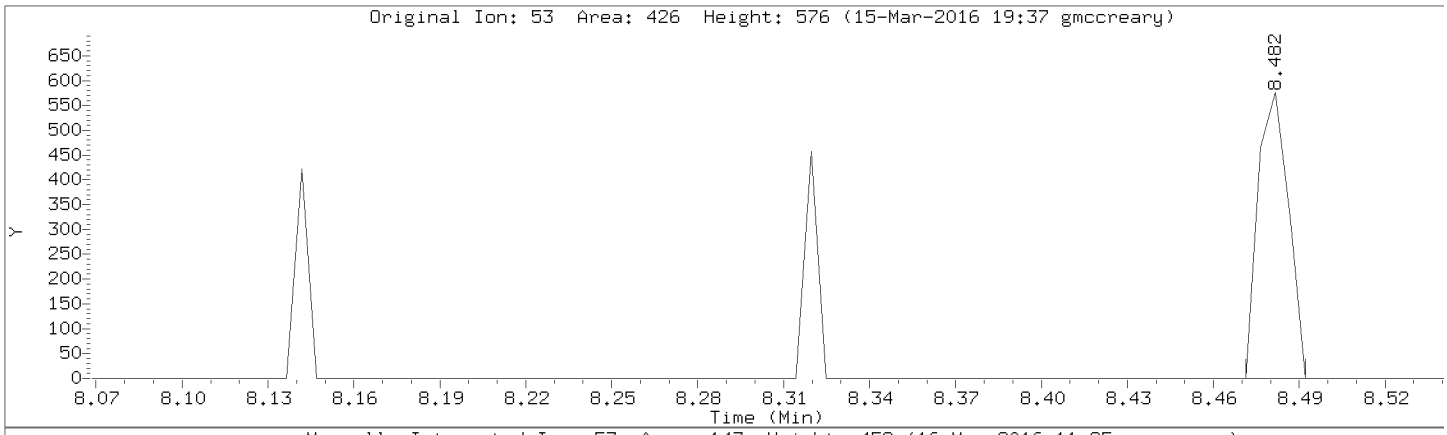
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b01cal.d
Date : 15-MAR-2016 18:01
Client ID: 8260-CAL1,117040:0
Sample Info: 8260-CAL1,117040:0
Purge Volume: 5.0
Column phase: DB-624

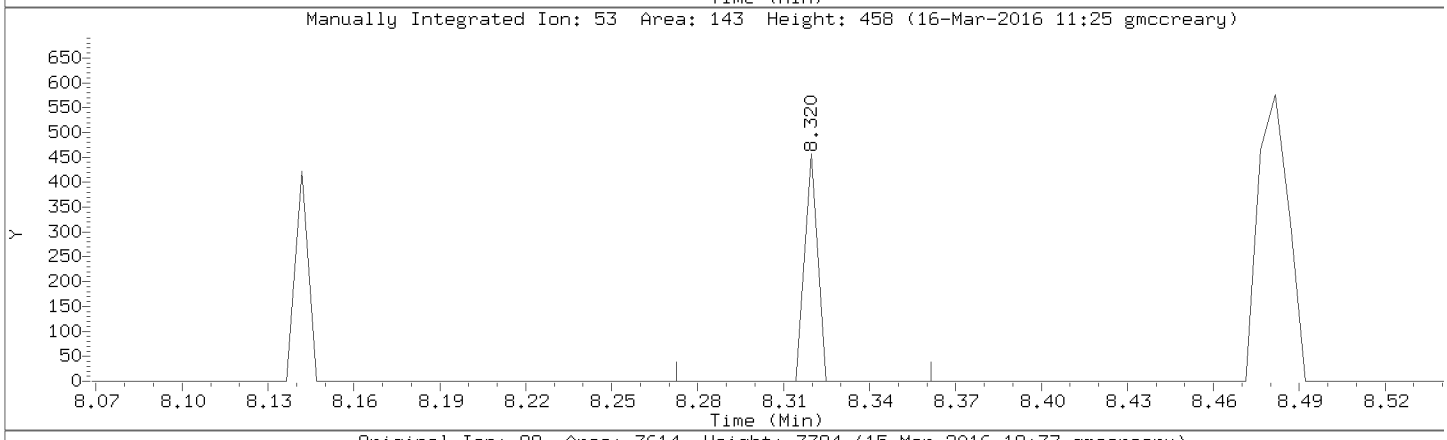
Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18

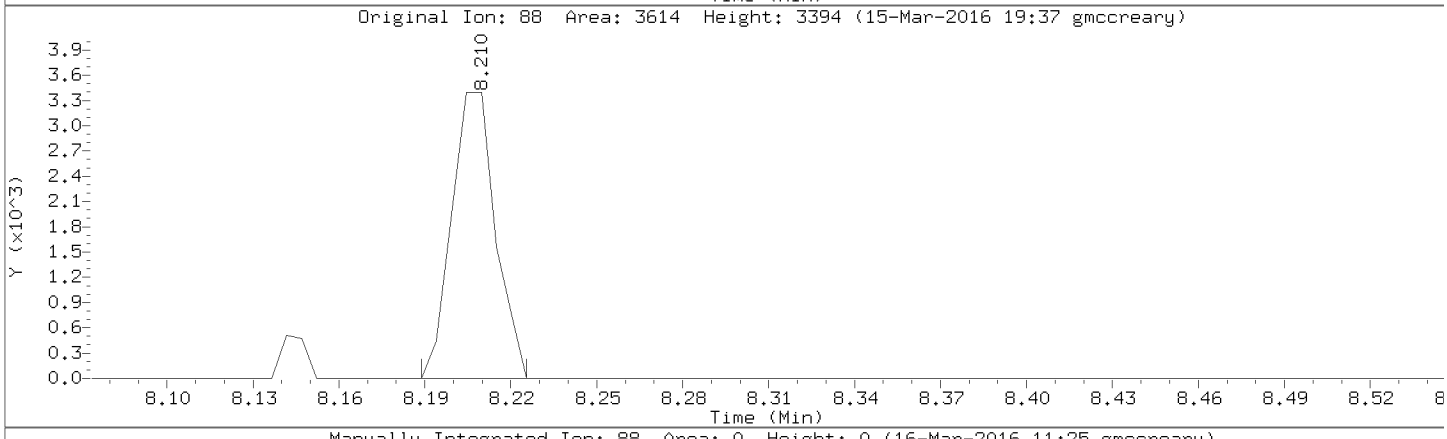


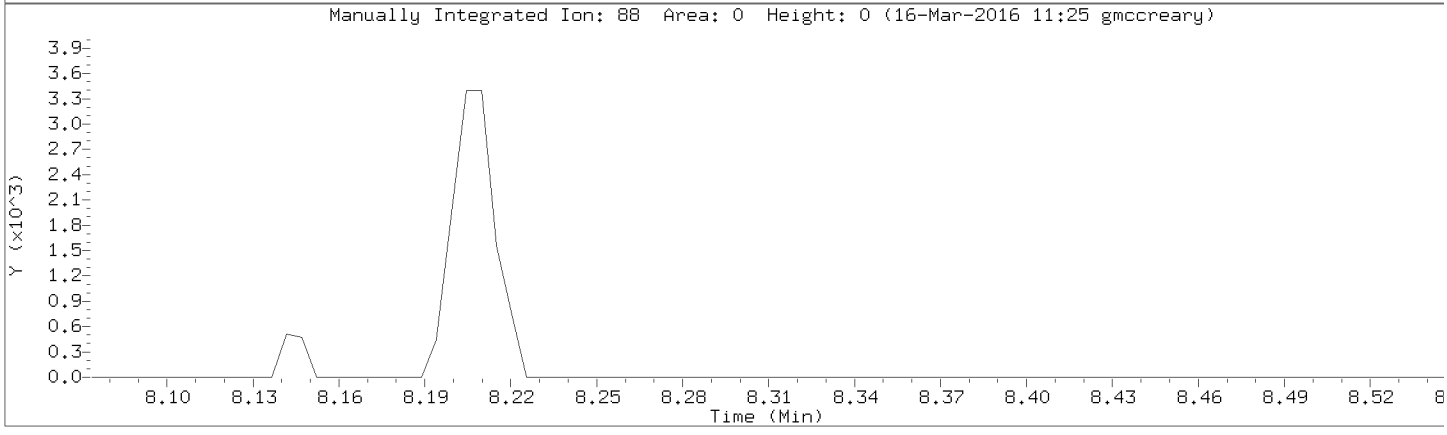
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b01cal.d
Injection Date: 15-MAR-2016 18:01
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL1,117040:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

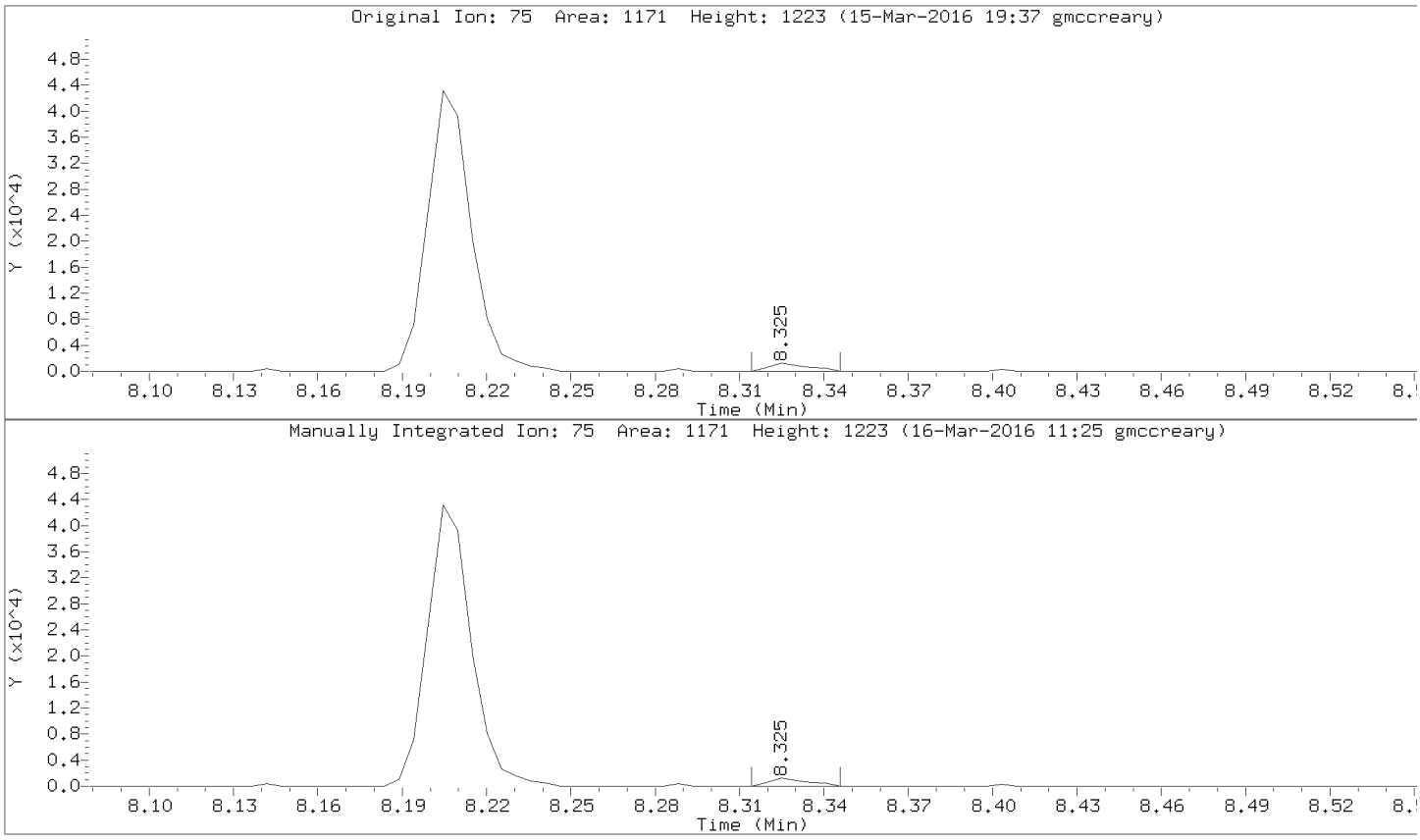








Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b01cal.d
Injection Date: 15-MAR-2016 18:01
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL1,117040:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b02cal.d
Lab Smp Id: 8260-CAL2,117041:0 Client Smp ID: 8260-CAL2,117041:0
Inj Date : 15-MAR-2016 18:36
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal2,117041:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.932	0.931	(0.221)	4402	2.00000	2.01(M)	NI
2 Chloromethane	50	1.011	1.015	(0.239)	7865	2.00000	2.40	
3 Vinyl Chloride	62	1.063	1.062	(0.252)	5400	2.00000	2.15	
4 Bromomethane	94	1.210	1.208	(0.286)	2445	2.00000	2.47	
5 Chloroethane	64	1.257	1.255	(0.297)	2679	2.00000	2.05	
6 Trichlorofluoromethane	101	1.372	1.371	(0.325)	5401	2.00000	2.05	
7 Diethyl ether	74	1.502	1.496	(0.355)	1291	2.00000	1.97(Q)	
8 1,2-dichlorotrifluoroethane	67	1.513	1.512	(0.358)	3727	2.00000	1.97	
9 Acrolein	56	1.576	1.575	(0.373)	6159	40.0000	42.1	
10 1,1,2trichlorotrifluoroethane	101	1.623	1.622	(0.384)	3175	2.00000	2.00	
11 1,1-Dichloroethene	96	1.623	1.627	(0.384)	2352	2.00000	1.85	
12 Acetone	43	1.644	1.642	(0.389)	4090	10.0000	12.5	
13 Iodomethane	142	1.717	1.716	(0.406)	3181	4.00000	2.34	
14 Carbon Disulfide	76	1.764	1.763	(0.417)	10402	2.00000	2.30	
15 Methyl Acetate	43	1.811	1.810	(0.428)	2066	2.00000	2.27(M)	NI
16 Acetonitrile	39	1.827	1.826	(0.432)	7528	2.00000	2.15	
17 allyl chloride	41	1.827	1.826	(0.432)	9896	4.00000	4.11	
18 Methylene Chloride	84	1.905	1.904	(0.451)	6058	2.00000	3.87	
19 tert-Butyl Alcohol	59	1.942	1.946	(0.459)	596	4.00000	5.02(Q)	
20 Acrylonitrile	53	2.052	2.045	(0.485)	3016	8.00000	8.04	
21 Methyl-tert-butyl ether	73	2.062	2.066	(0.488)	6577	2.00000	1.89	
22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.492)	2916	2.00000	2.02	
24 n-Hexane	57	2.261	2.260	(0.535)	6325	2.00000	2.49	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.381	2.375	(0.563)	18579	8.00000	7.55	
	26 1,1-Dichloroethane	63	2.386	2.385	(0.565)	5511	2.00000	1.96	
	27 Chloroprene	53	2.444	2.443	(0.578)	4708	2.00000	1.75(M)	NI
	28 2-Butanone	43	2.862	2.856	(0.677)	4550	10.0000	9.10(M)	NI
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.680)	2931	2.00000	1.95	
	30 2,2-Dichloropropane	77	2.873	2.872	(0.680)	4293	2.00000	1.94	
	32 Methacrylonitrile	41	3.077	3.065	(0.728)	1221	2.00000	1.78(QM)	NI
	33 Bromochloromethane	49	3.103	3.107	(0.734)	2295	2.00000	2.06	
	34 Tetrahydrofuran	42	3.139	3.128	(0.743)	1357	2.00000	3.87	
	35 Chloroform	83	3.218	3.217	(0.761)	5592	2.00000	2.08	
	37 1,1,1-Trichloroethane	97	3.396	3.395	(0.803)	4687	2.00000	1.93	
$	38 Dibromofluoromethane (S)	113	3.396	3.395	(0.803)	74840	50.0000	52.6	
	39 Cyclohexane	56	3.474	3.473	(0.822)	5889	2.00000	2.10	
	150 n-butyl chloride	56	3.547	3.546	(0.839)	6196	2.00000	1.83(M)	NI
	40 Carbon Tetrachloride	117	3.574	3.578	(0.845)	3364	2.00000	1.67	
	41 1,1-Dichloropropene	75	3.589	3.588	(0.849)	3553	2.00000	1.74	
	42 Benzene	78	3.830	3.834	(0.906)	10722	2.00000	1.93	
	43 1,2-Dichloroethane	62	3.924	3.923	(0.928)	4079	2.00000	2.12(M)	NI
	45 2,2,4-Trimethylpentane	57	3.992	4.001	(0.944)	11097	2.00000	1.82	
	44 Isobutyl alcohol	43	3.997	3.996	(0.946)	2435	2.00000	2.06(QM)	NI
*	46 Fluorobenzene (IS)	96	4.227	4.231	(1.000)	273945	50.0000		
	47 Trichloroethene	95	4.677	4.676	(1.106)	2875	2.00000	1.96	
	48 Methylcyclohexane	55	4.939	4.943	(1.168)	3947	2.00000	1.78	
	49 1,2-Dichloropropane	63	4.986	4.990	(1.179)	2808	2.00000	1.95	
	50 Dibromomethane	93	5.085	5.084	(1.203)	1470	2.00000	1.90(Q)	
	52 Methyl methacrylate	69	5.116	5.100	(1.210)	1106	2.00000	1.59(QM)	NI
	53 Bromodichloromethane	83	5.310	5.309	(1.256)	3559	2.00000	1.87(M)	NI
	54 2-Chloroethyl vinyl ether	63	5.666	5.659	(0.766)	2131	4.00000	3.07	
	55 cis-1,3-Dichloropropene	75	5.802	5.800	(0.785)	3858	2.00000	1.77	
	56 4-Methyl-2-Pentanone	43	5.979	5.978	(0.809)	11636	10.0000	10.9	
$	57 Toluene-d8	98	6.074	6.078	(0.822)	261771	50.0000	48.9	
	58 Toluene	91	6.152	6.151	(0.832)	13376	2.00000	2.04	
	59 trans-1,3-Dichloropropene	75	6.440	6.433	(0.871)	3042	2.00000	1.70	
	60 Ethyl Methacrylate	69	6.518	6.512	(0.882)	2998	2.00000	2.04(M)	NI
	61 1,1,2-Trichloroethane	83	6.618	6.622	(0.895)	1512	2.00000	1.65	
	62 Tetrachloroethene	166	6.665	6.663	(0.902)	3380	2.00000	1.89	
	63 1,3-Dichloropropane	76	6.759	6.758	(0.914)	3115	2.00000	1.74	
	64 2-Hexanone	43	6.827	6.826	(0.924)	7868	10.0000	10.4	
	65 Dibromochloromethane	129	6.942	6.941	(0.939)	2263	2.00000	1.71	
	66 1,2-Dibromoethane	107	7.025	7.024	(0.950)	1891	2.00000	1.73	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.390	(1.000)	206116	50.0000		
	68 Chlorobenzene	112	7.412	7.411	(1.003)	8096	2.00000	1.92	
	69 1,1,1,2-Tetrachloroethane	131	7.486	7.490	(1.013)	2127	2.00000	1.53	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	4803	2.00000	2.07(Q)	
	71 m&p-Xylene	106	7.590	7.589	(1.027)	11593	4.00000	3.99	
	72 o-Xylene	106	7.852	7.851	(1.062)	5340	2.00000	1.88	
	73 Styrene	104	7.867	7.866	(1.064)	9036	2.00000	1.92	
	74 Bromoform	173	7.988	7.992	(0.899)	1785	2.00000	2.01(M)	NI
	75 Isopropylbenzene	105	8.092	8.096	(1.095)	15325	2.00000	1.91	
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	96779	50.0000	51.7	
	77 Bromobenzene	77	8.286	8.285	(1.121)	5579	2.00000	2.08	
	79 1,1,2,2-Tetrachloroethane	83	8.302	8.300	(0.934)	3056	2.00000	2.31	
	80 trans-1,4-Dichloro-2-butene	53	8.317	8.316	(1.125)	886	2.00000	2.24(Q)	
	81 1,2,3-Trichloropropane	110	8.333	8.332	(0.938)	786	2.00000	2.11	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
82 n-Propylbenzene	91	8.354	8.353	(0.940)	18106	2.00000	2.02	
83 2-Chlorotoluene	91	8.406	8.405	(0.946)	10396	2.00000	2.02	
84 1,3,5-Trimethylbenzene	105	8.464	8.463	(0.952)	12005	2.00000	1.96	
85 4-Chlorotoluene	126	8.479	8.478	(0.954)	3948	2.00000	2.16(Q)	
86 tert-Butylbenzene	119	8.642	8.646	(0.972)	11497	2.00000	1.96	
87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	14107	2.00000	2.22	
88 sec-Butylbenzene	105	8.772	8.766	(0.987)	16474	2.00000	2.01	
89 1,3-Dichlorobenzene	146	8.840	8.839	(0.995)	8249	2.00000	2.18	
90 p-Isopropyltoluene	119	8.856	8.855	(0.996)	13950	2.00000	1.92	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.886	(1.000)	110078	50.0000		
92 1,4-Dichlorobenzene	146	8.898	8.897	(1.001)	8624	2.00000	2.27	
93 n-Butylbenzene	91	9.076	9.075	(1.021)	13833	2.00000	2.11	
94 1,2-Dichlorobenzene	146	9.097	9.090	(1.024)	7751	2.00000	2.33	
95 1,2-Dibromo-3-chloropropane	155	9.520	9.509	(1.071)	389	2.00000	1.84(Q)	
96 1,2,4-Trichlorobenzene	180	9.933	9.922	(1.118)	6563	2.00000	2.29	
97 Hexachlorobutadiene	225	9.996	9.985	(1.125)	4059	2.00000	2.03	
98 Naphthalene	128	10.080	10.063	(1.134)	13080	2.00000	2.32	
99 1,2,3-Trichlorobenzene	180	10.195	10.178	(1.147)	6585	2.00000	2.39	
100 2,methyl-naphthalene	142	10.723	10.706	(1.207)	8239	2.00000	2.18	
101 1-methylnaphthalene	142	10.843	10.821	(1.220)	7641	2.00000	2.24	

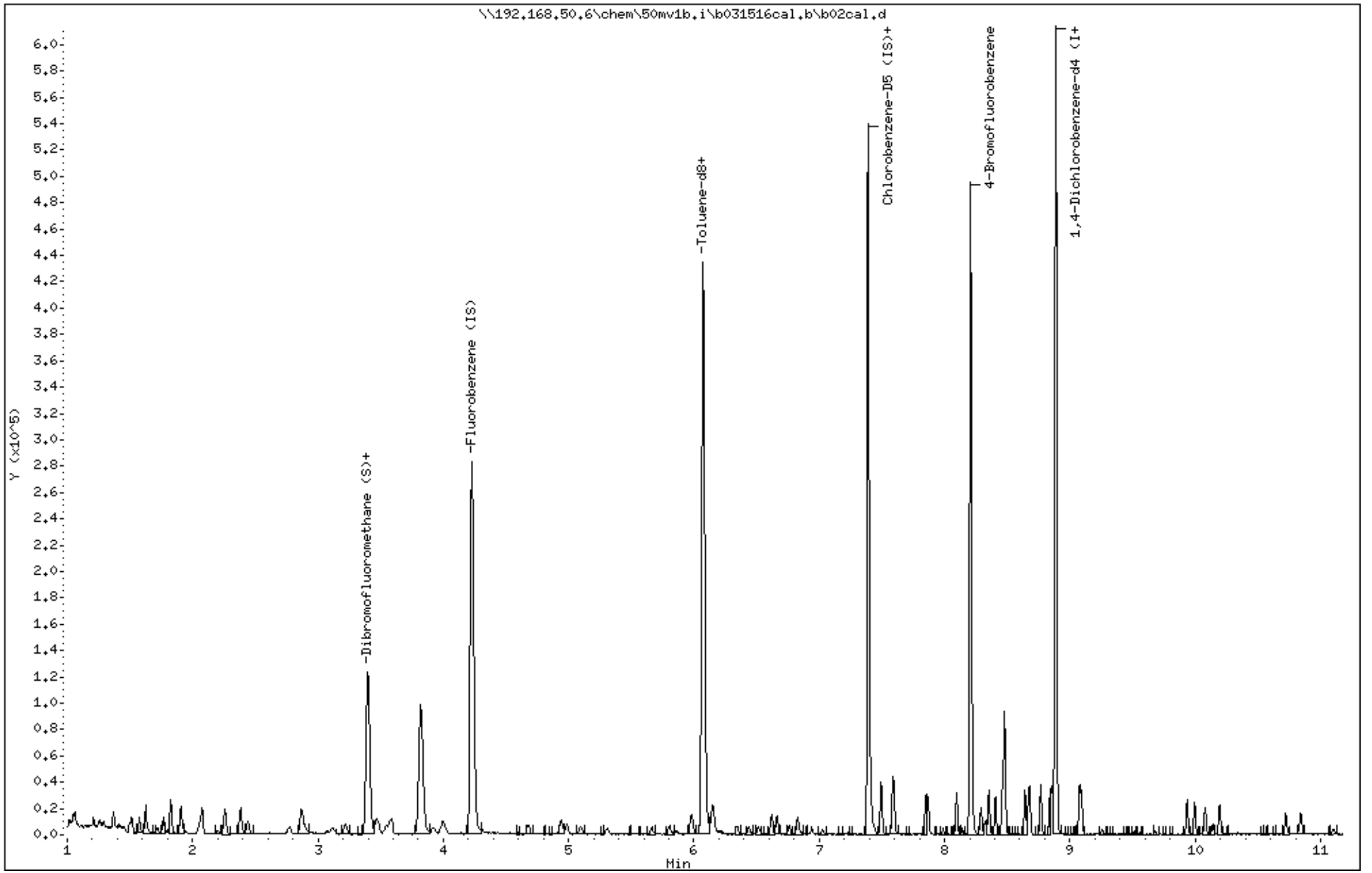
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

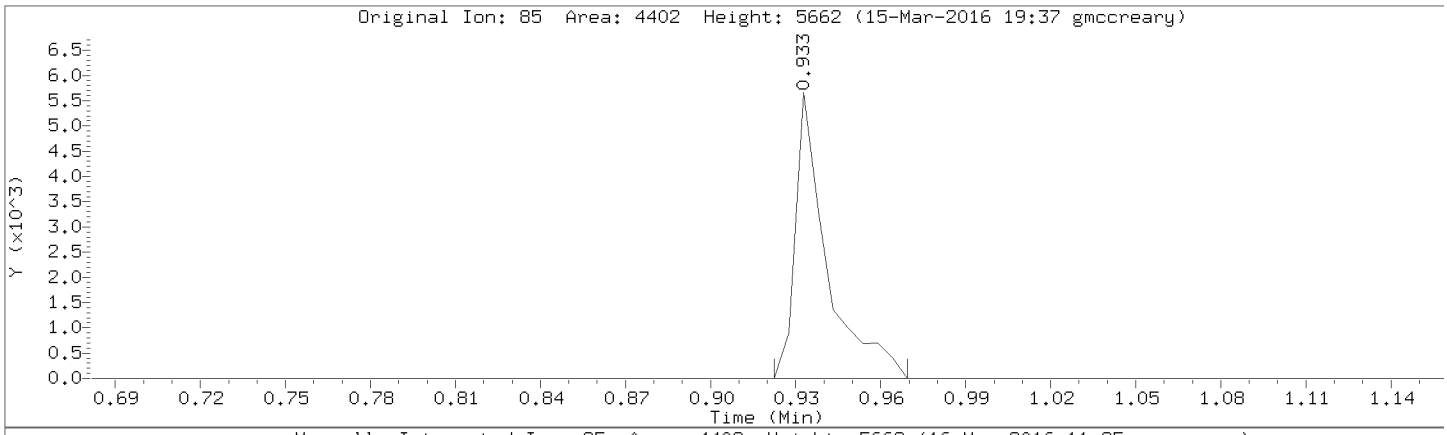
NI: Indicates that the peak was not integrated at all by the computer software.
:

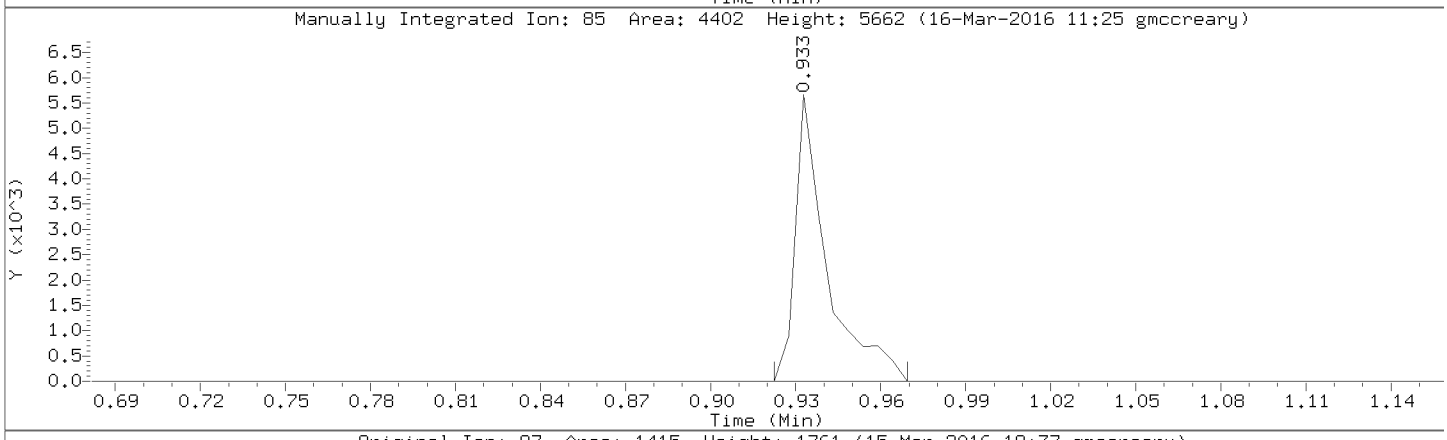
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b02cal.d
Date : 15-MAR-2016 18:36
Client ID: 8260-CAL2,117041:0
Instrument: 50mv1b.i
Sample Info: 8260-CAL2,117041:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

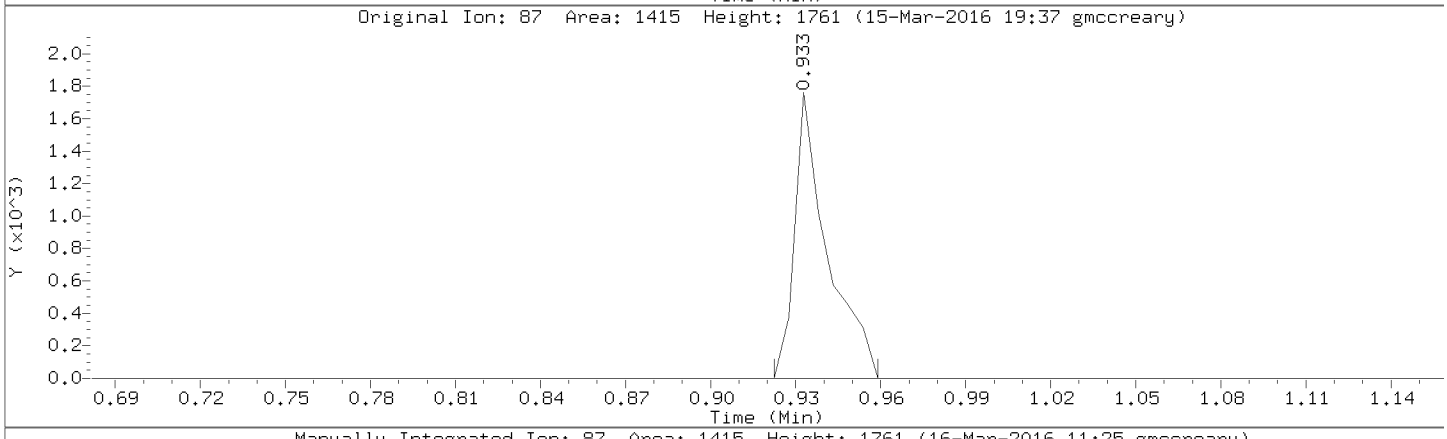


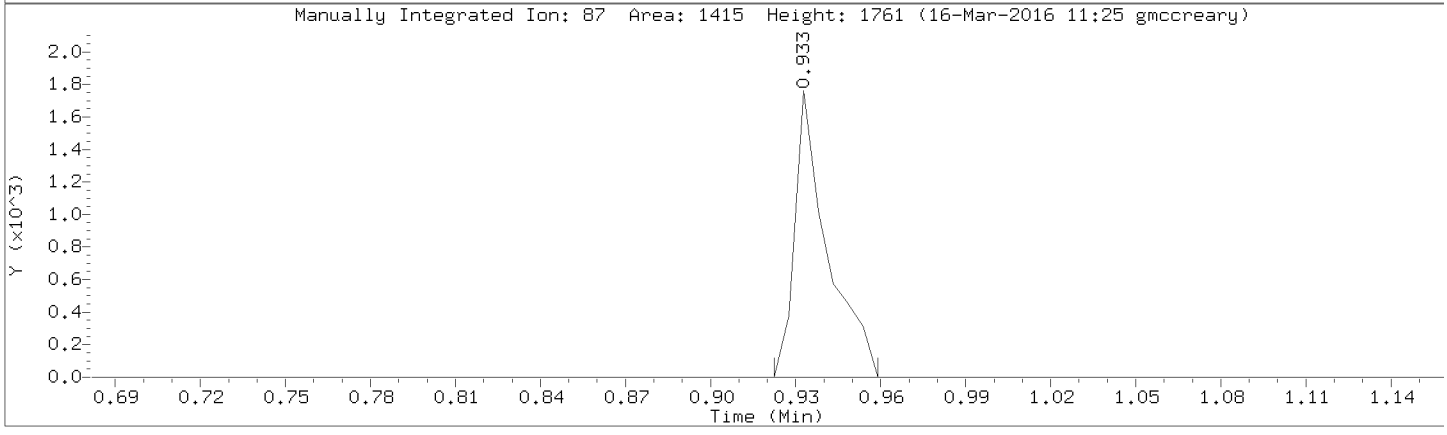
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Dichlorodifluoromethane Review Code: NI
CAS Number: 75-71-8

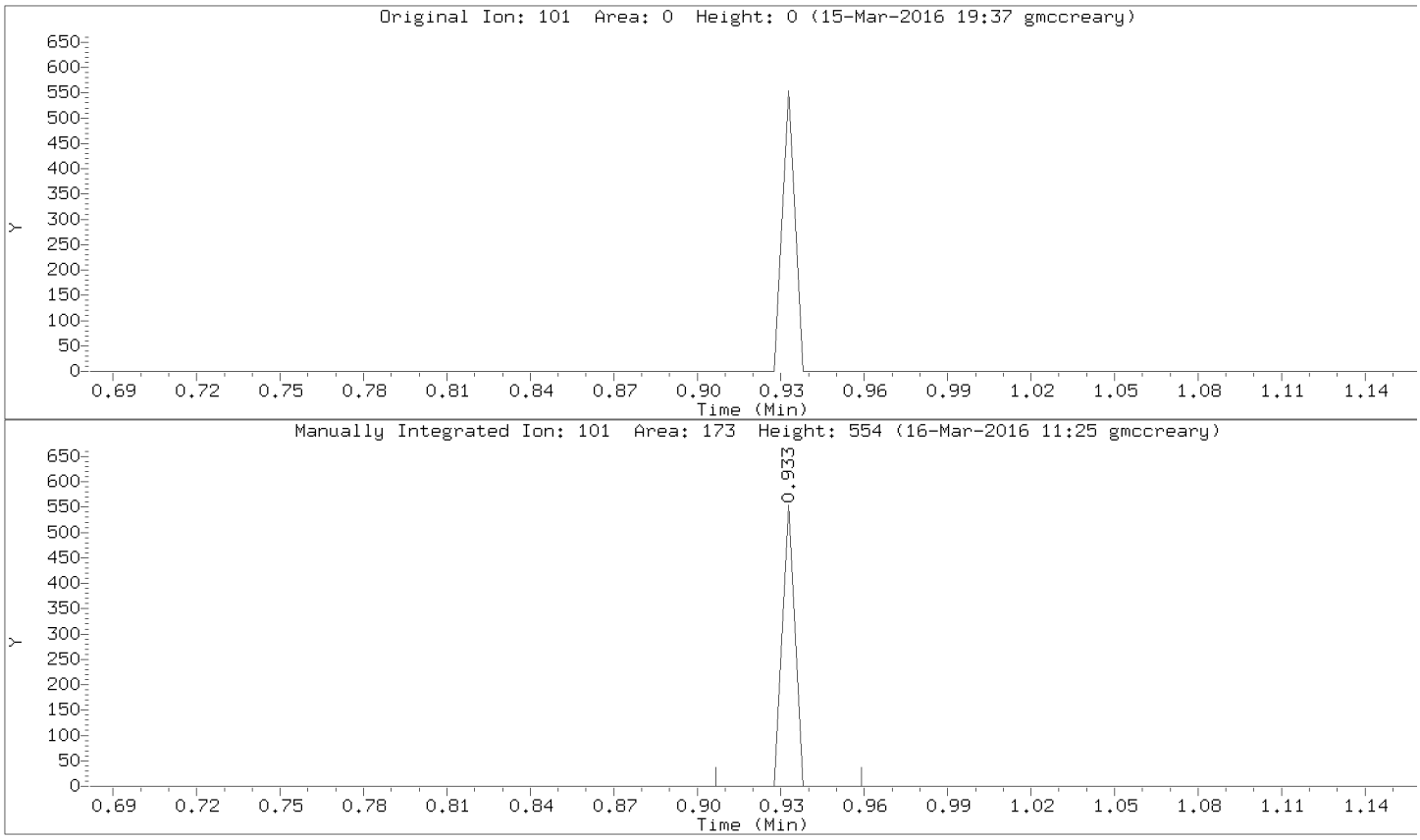






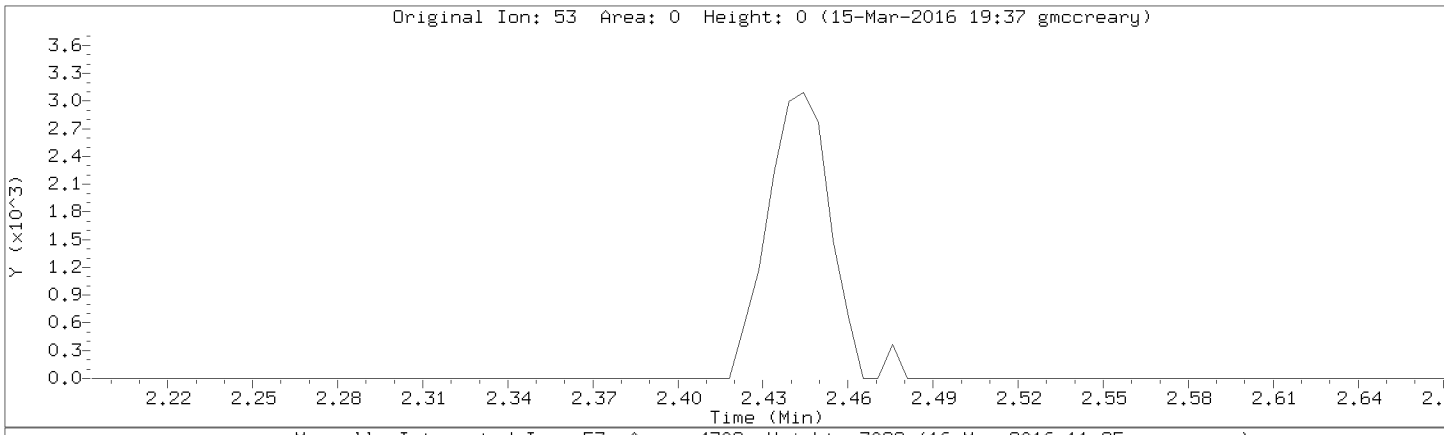


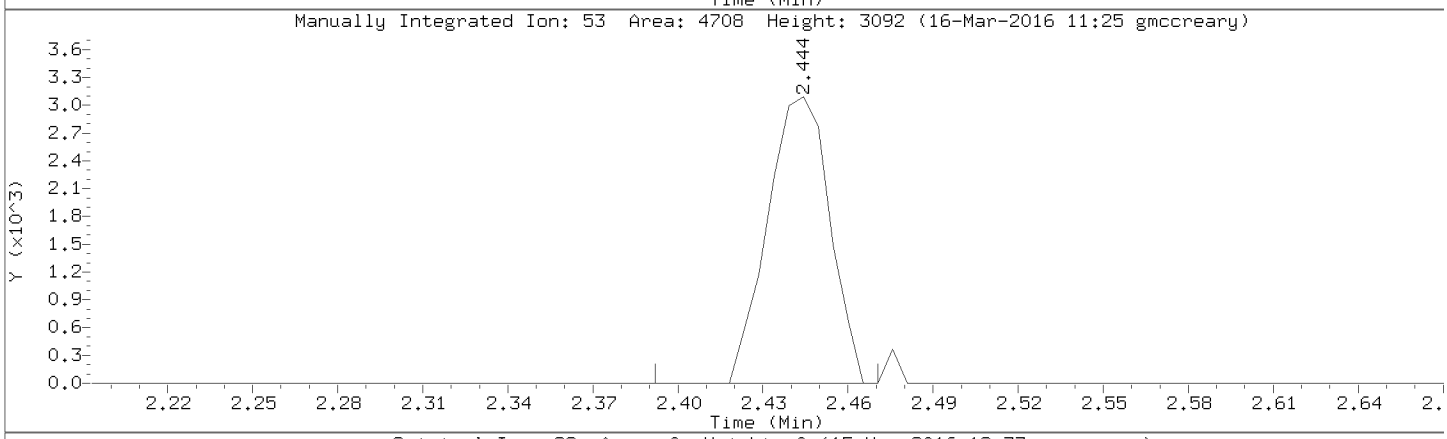
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

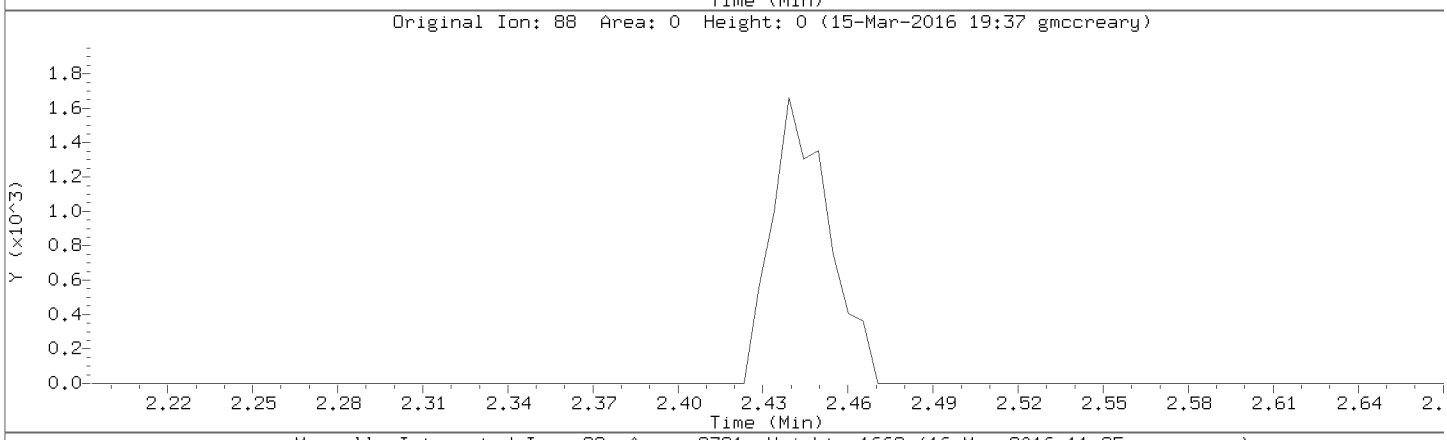


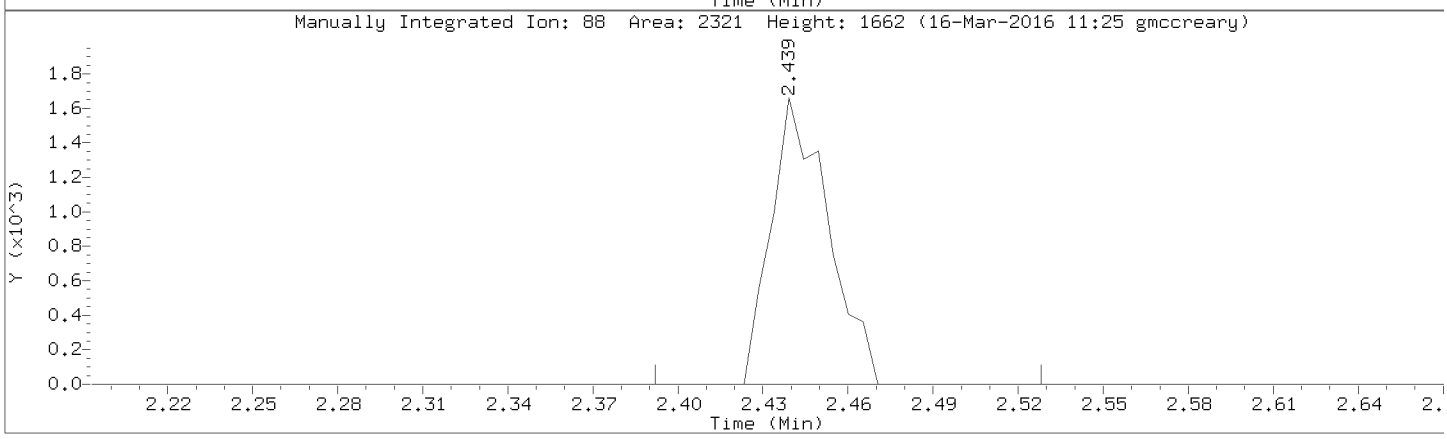
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8

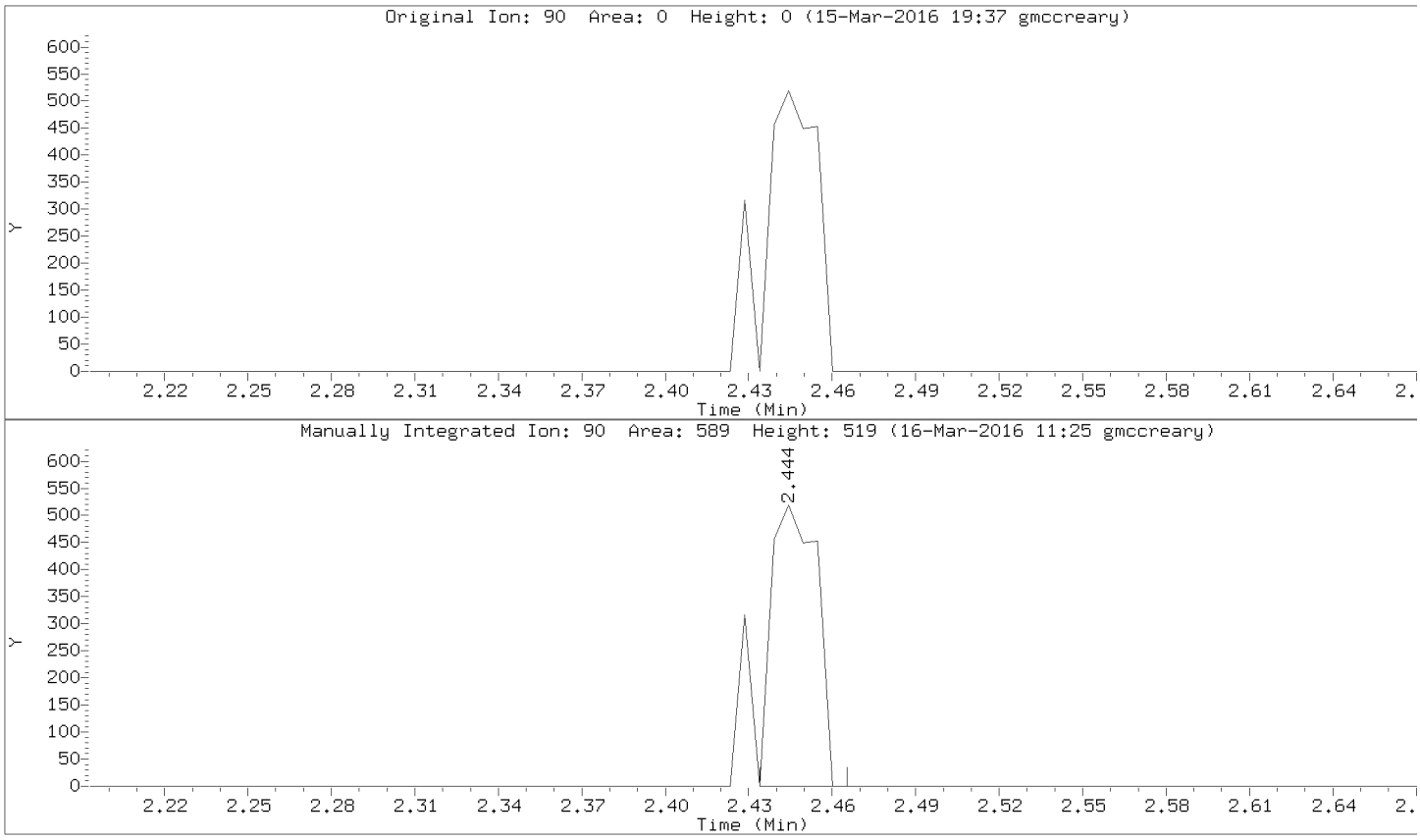






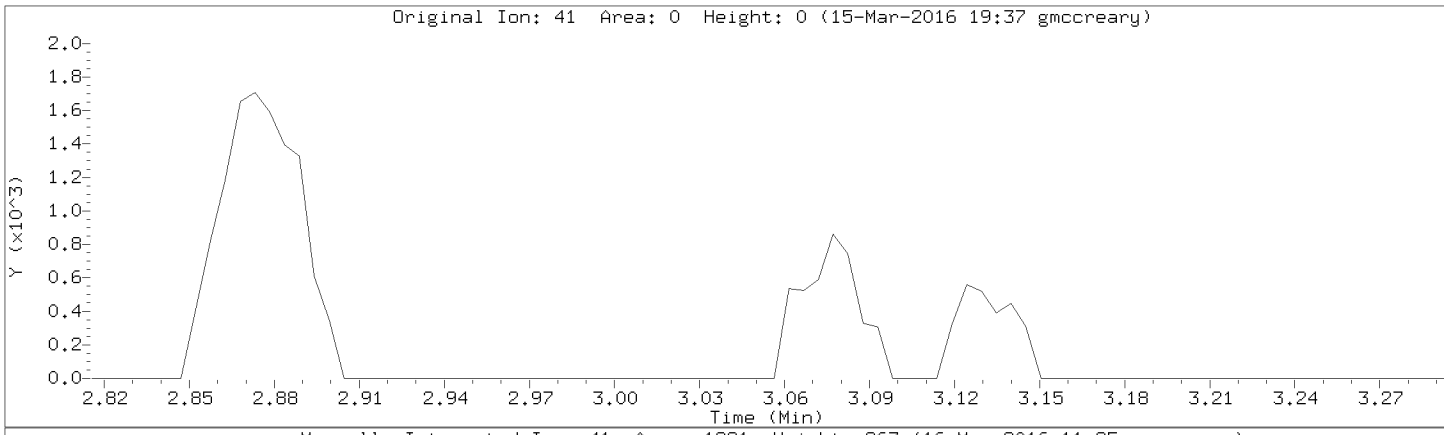


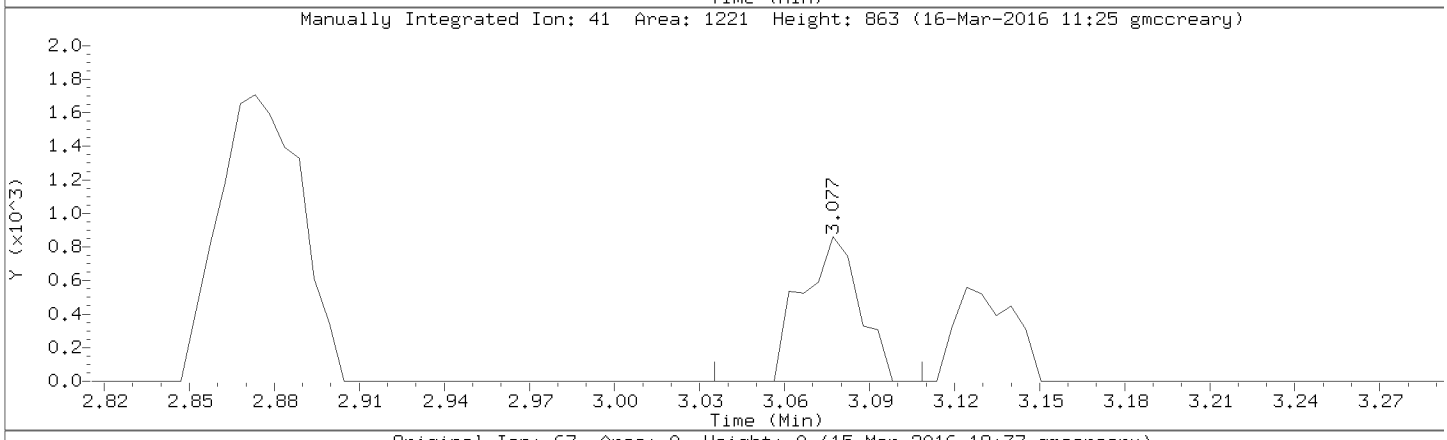
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

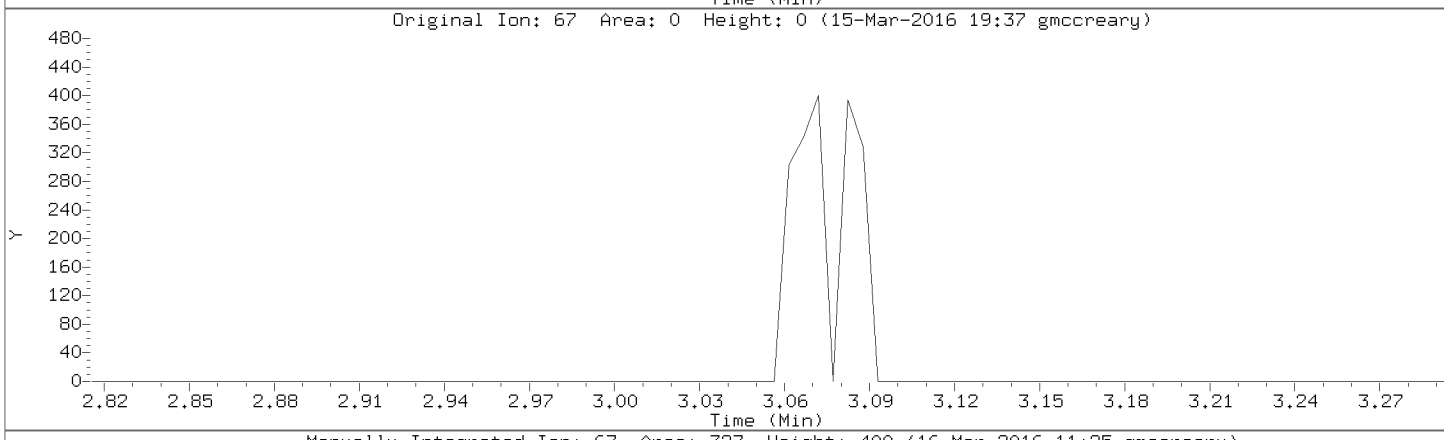


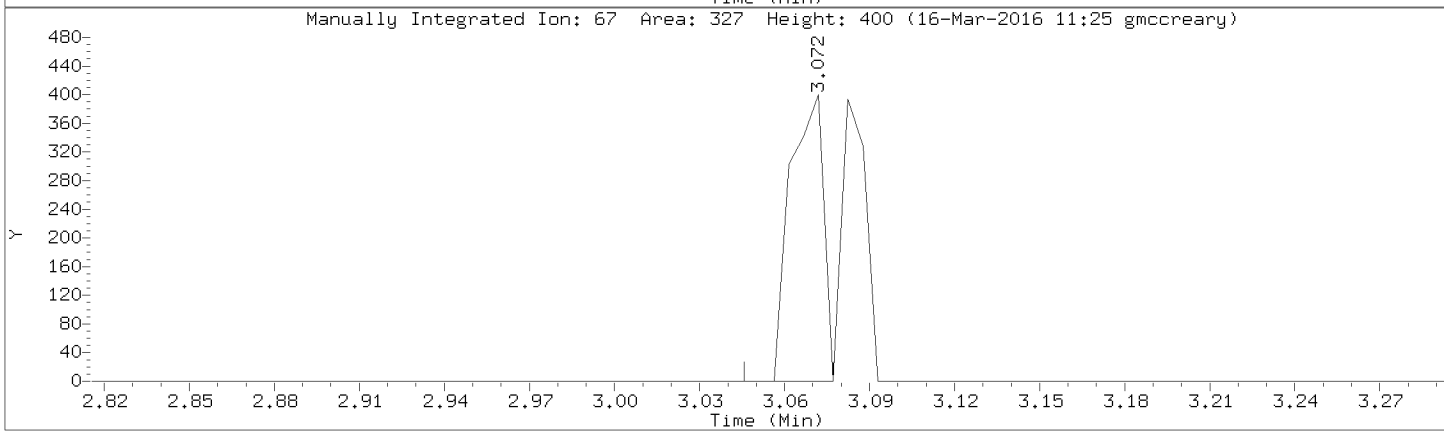
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7

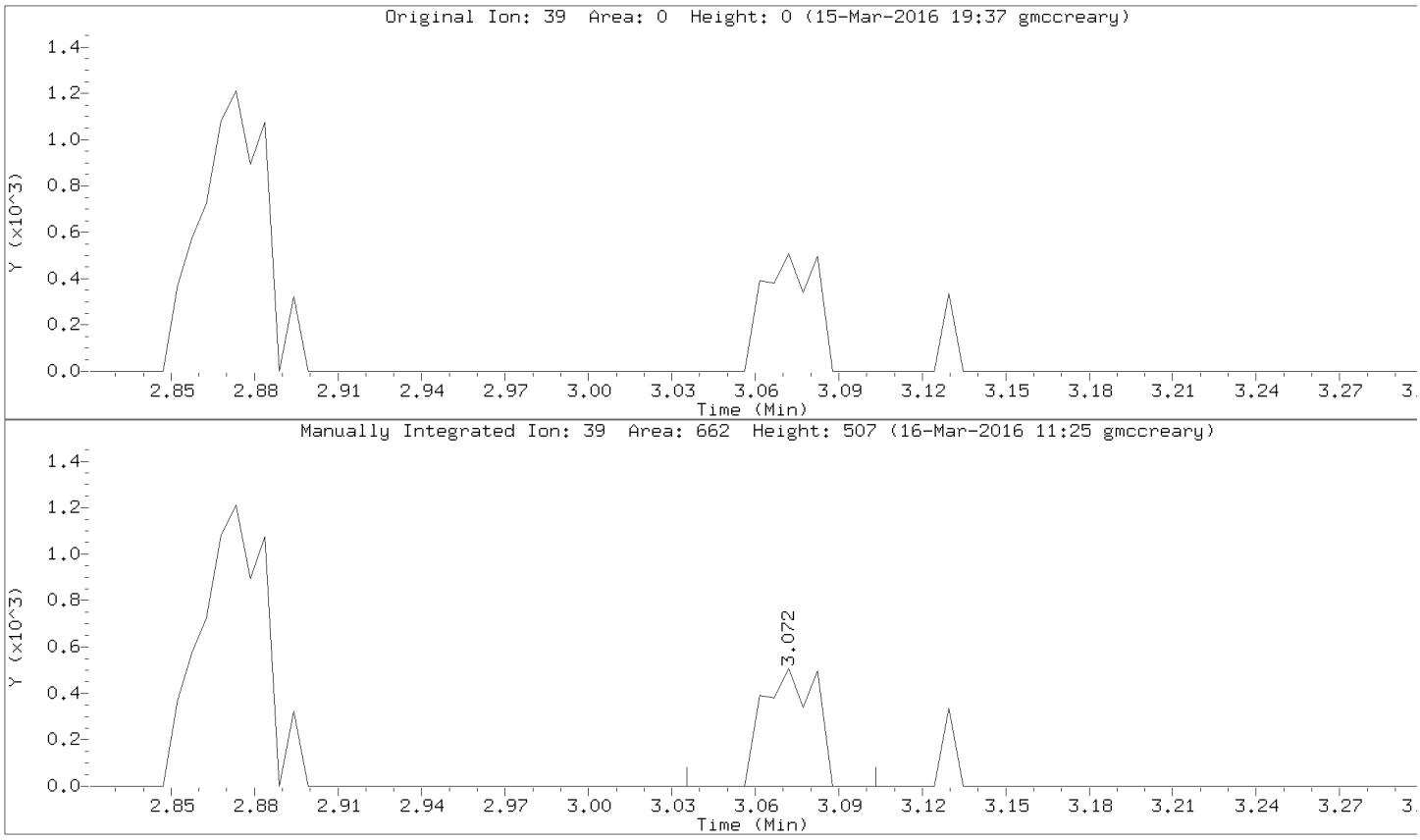






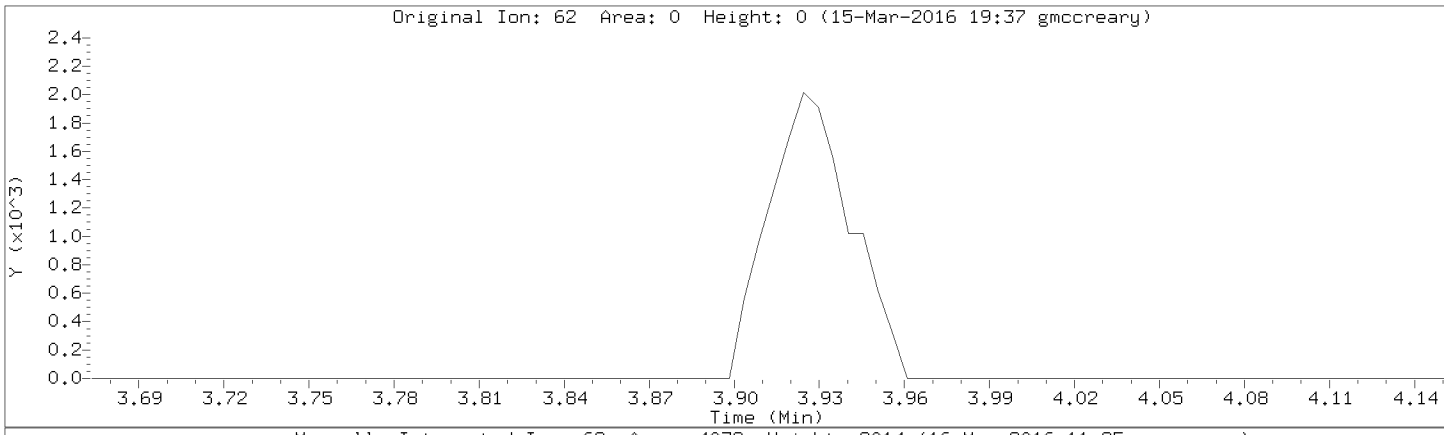


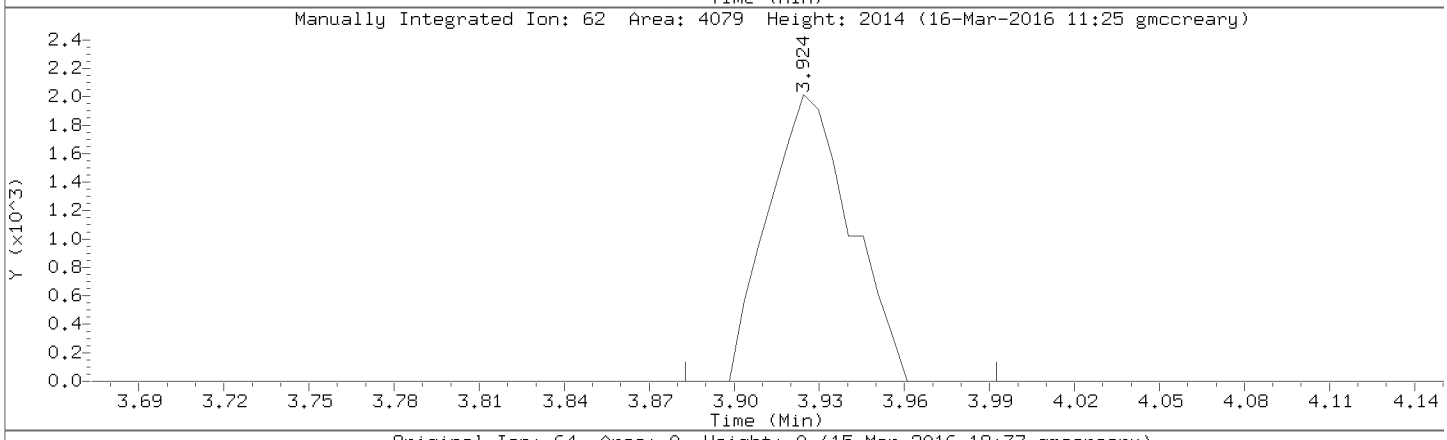
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

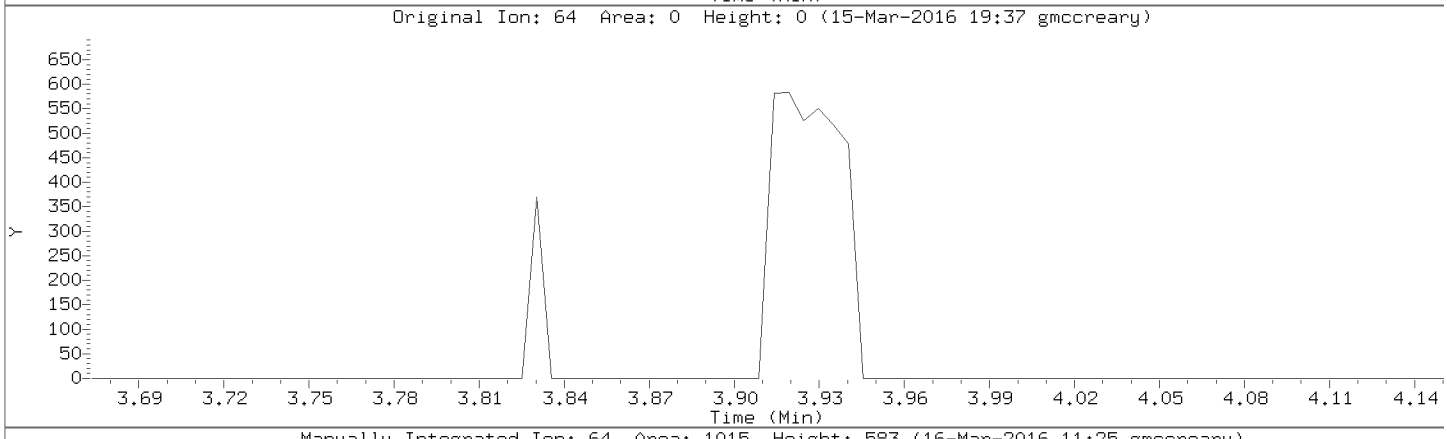


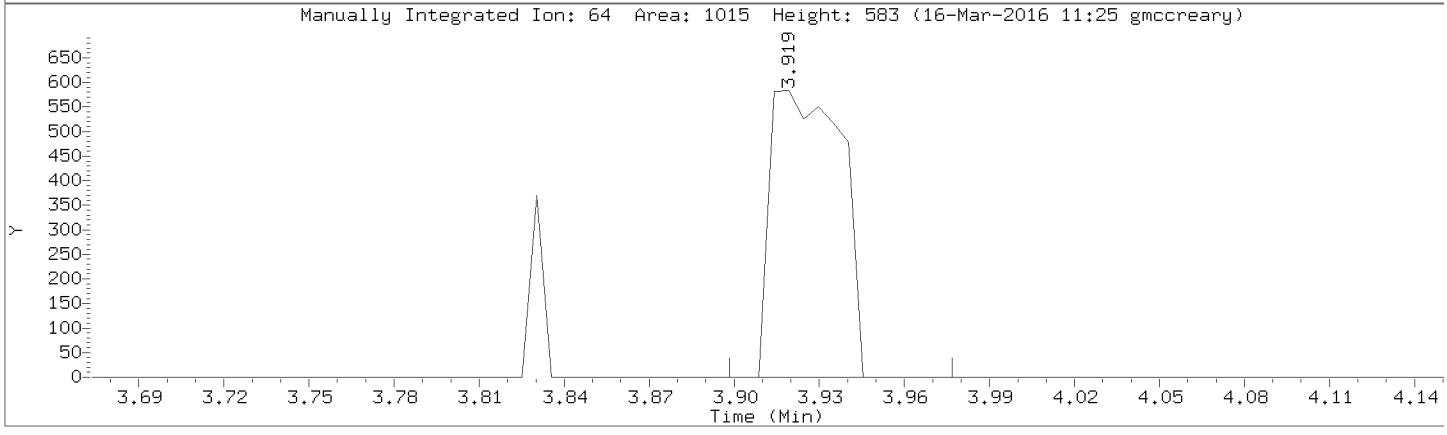
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

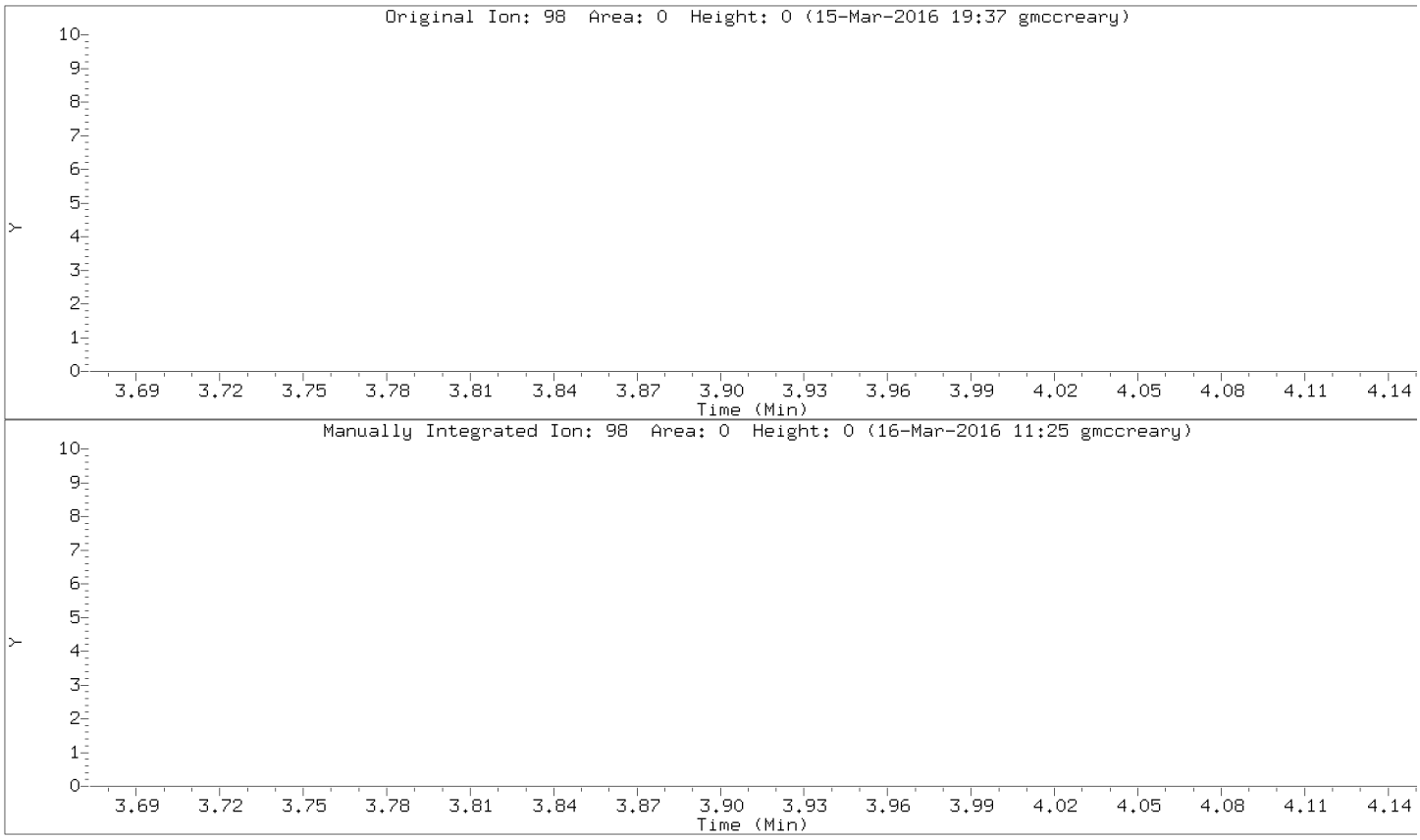






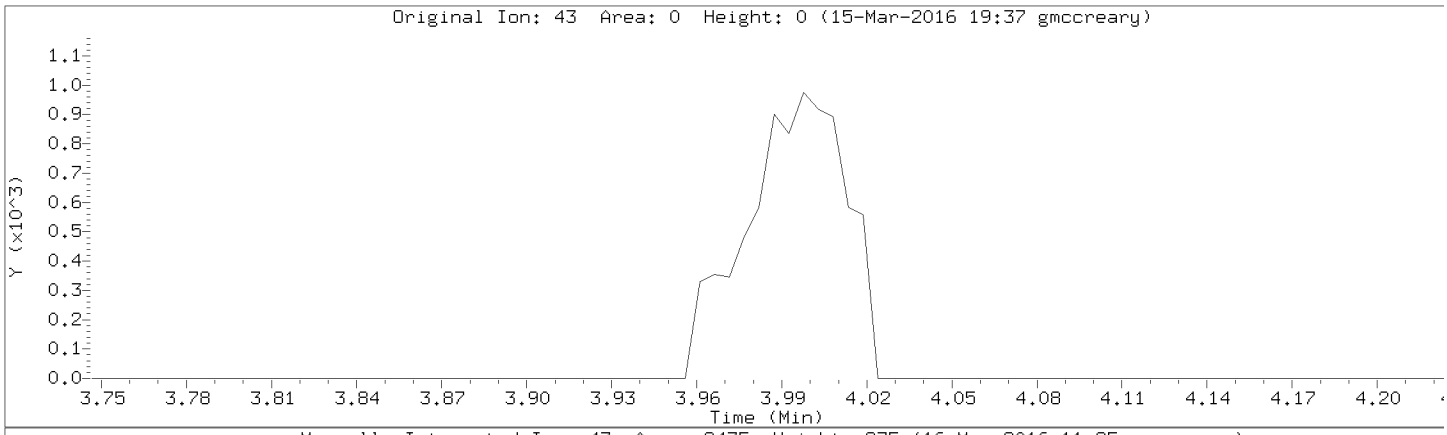


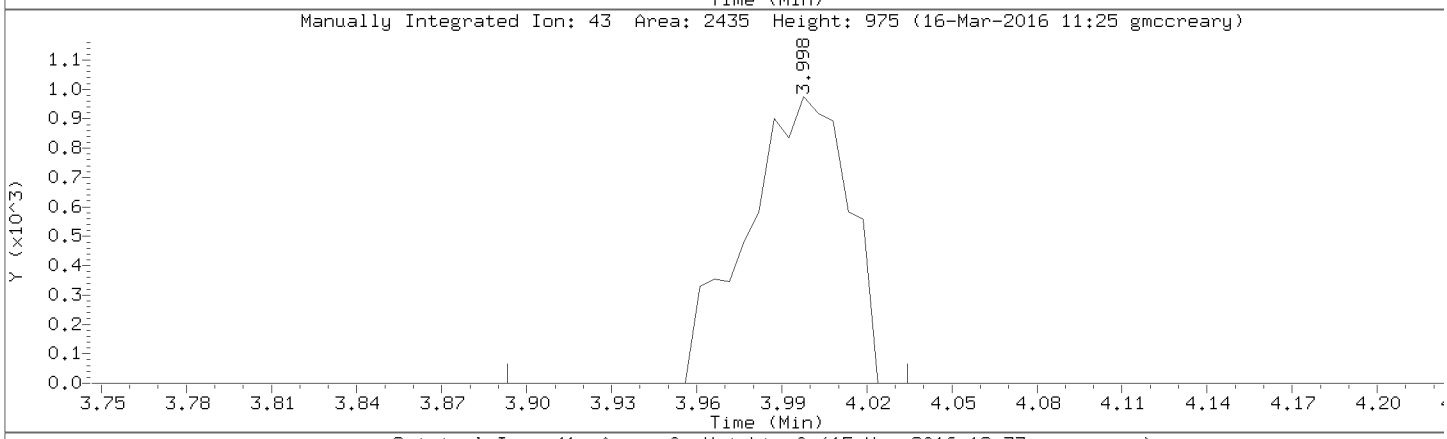
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

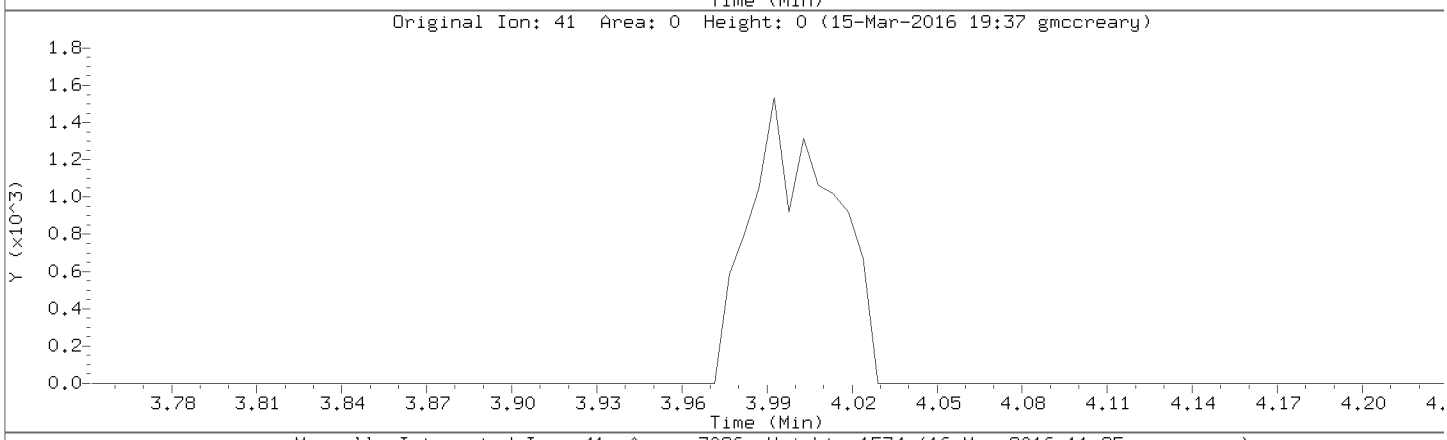


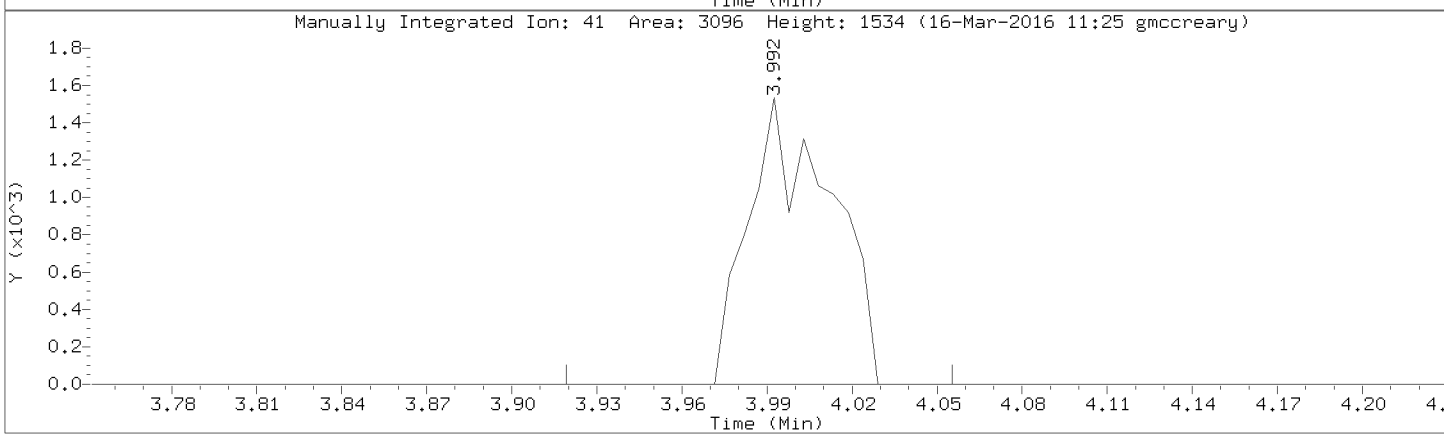
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

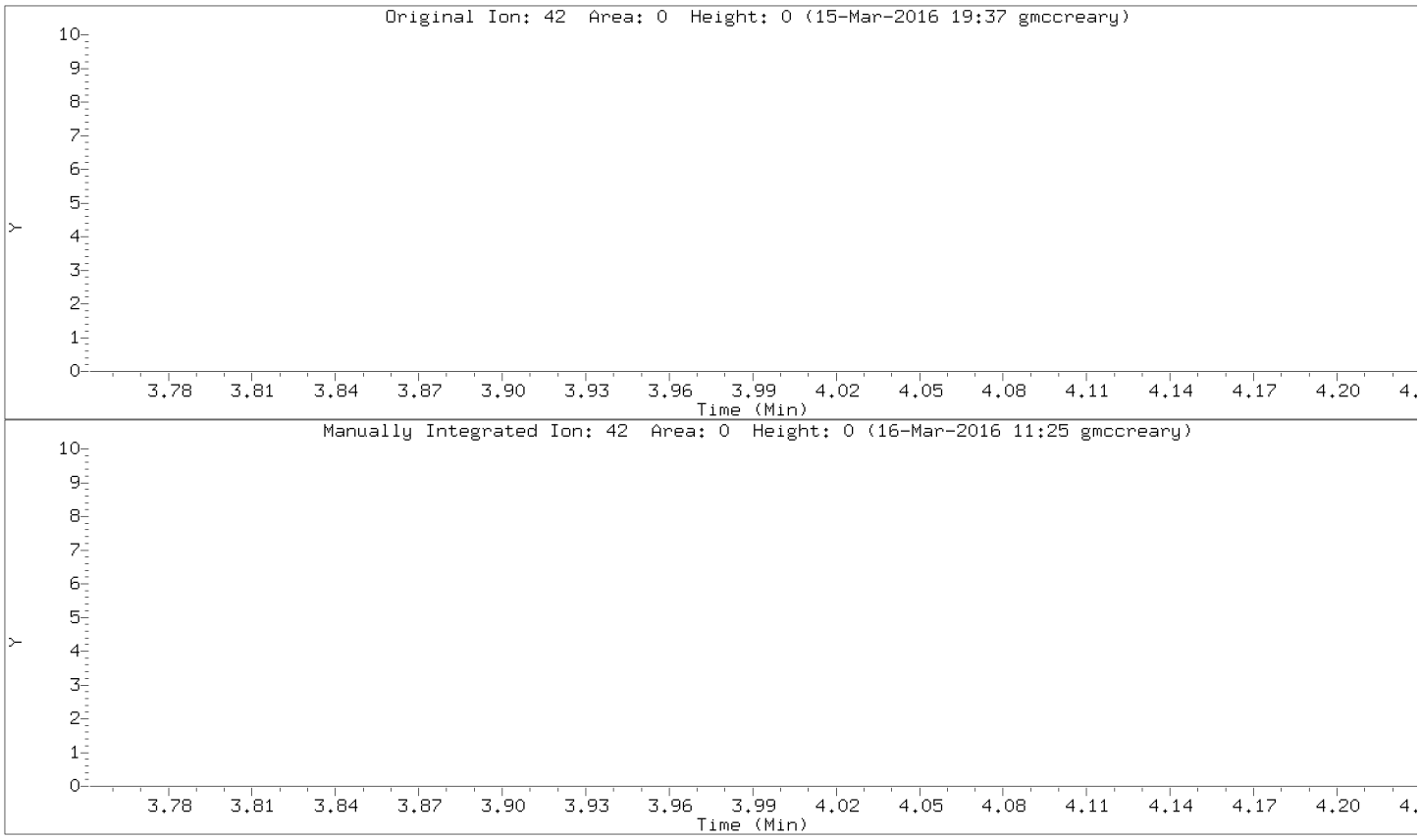






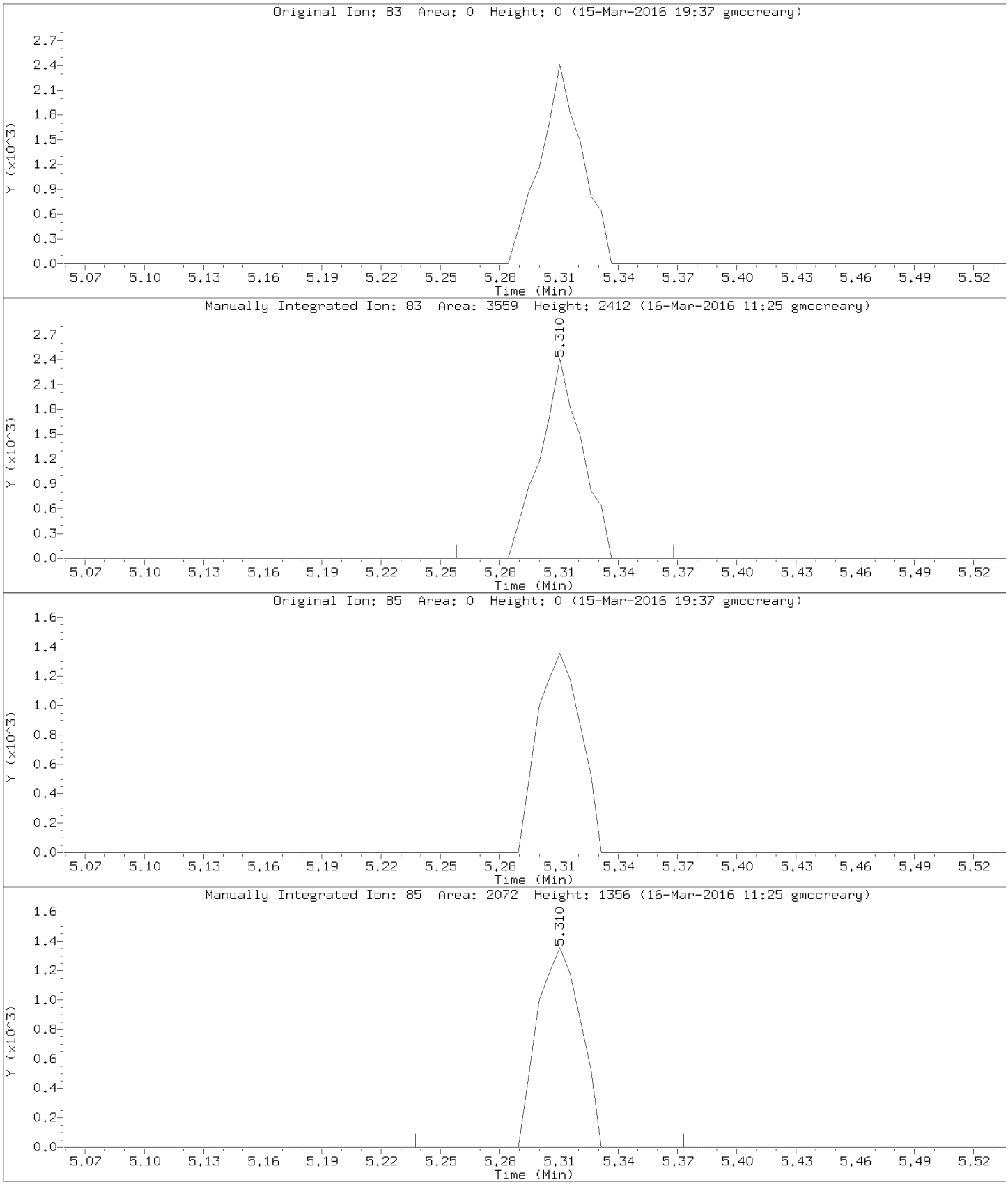


Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

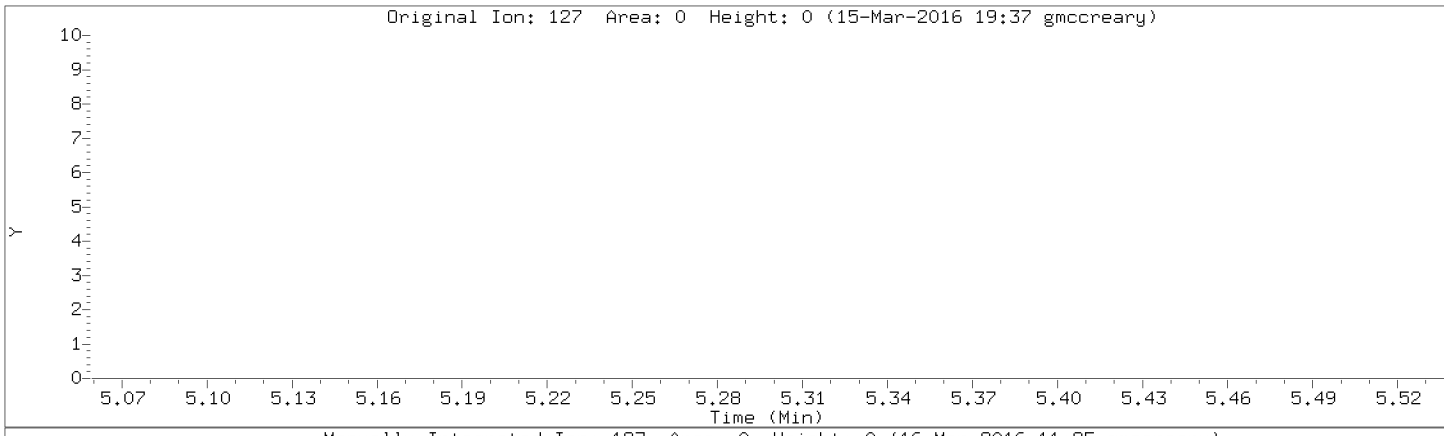


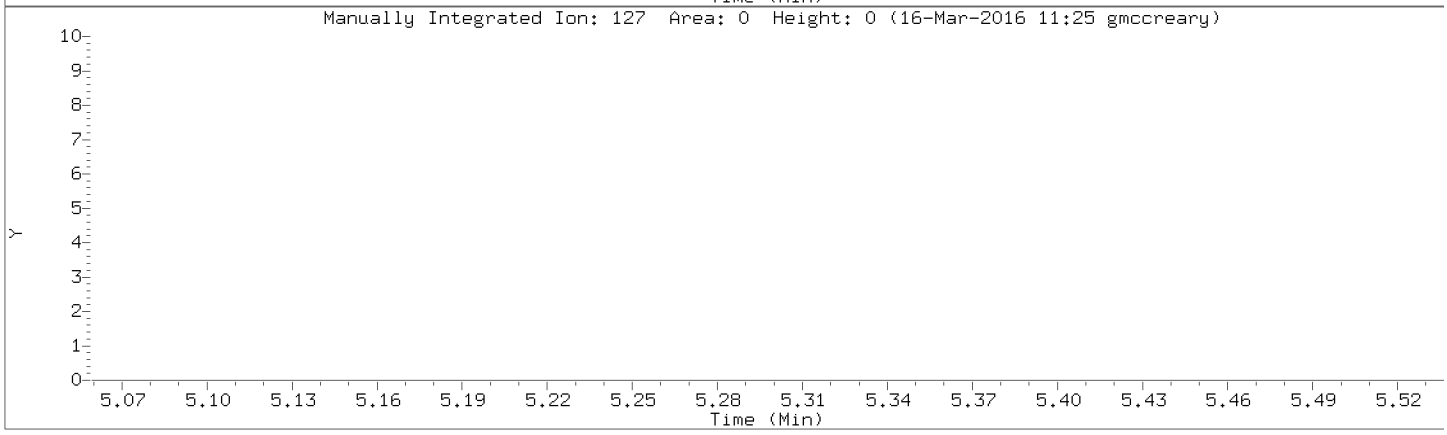
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4



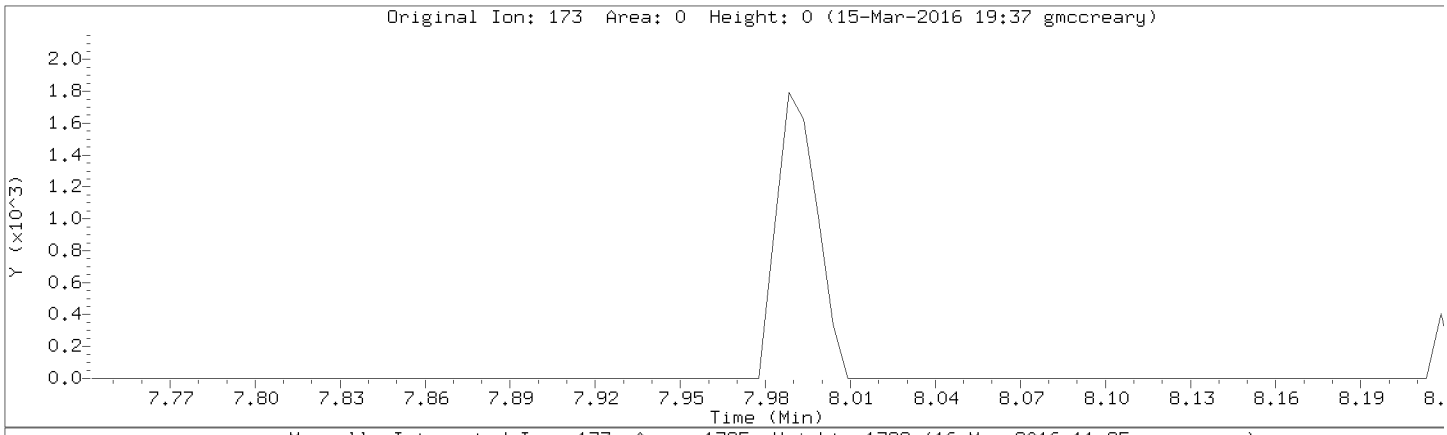
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

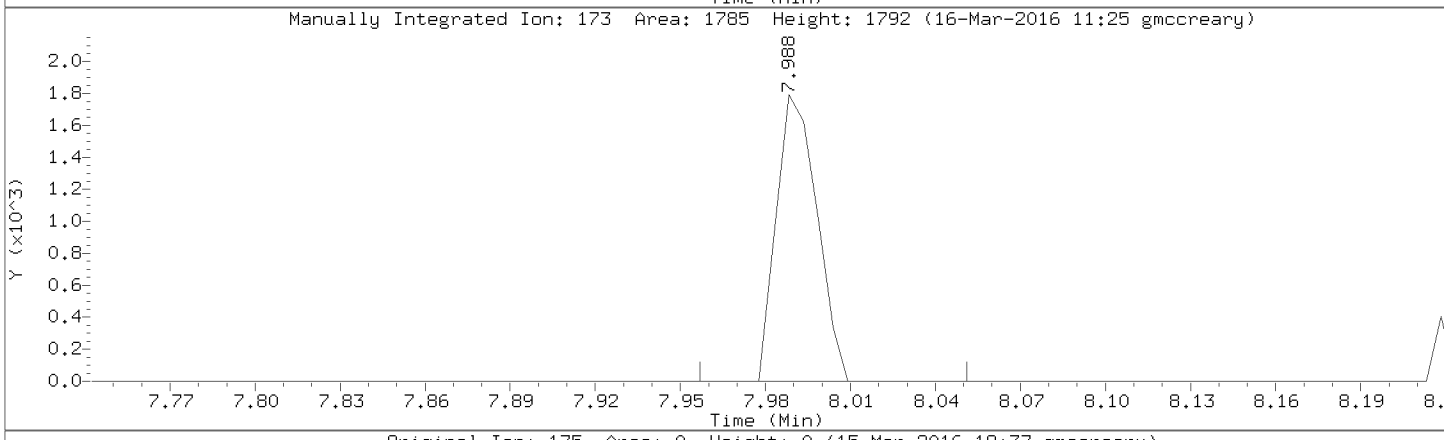


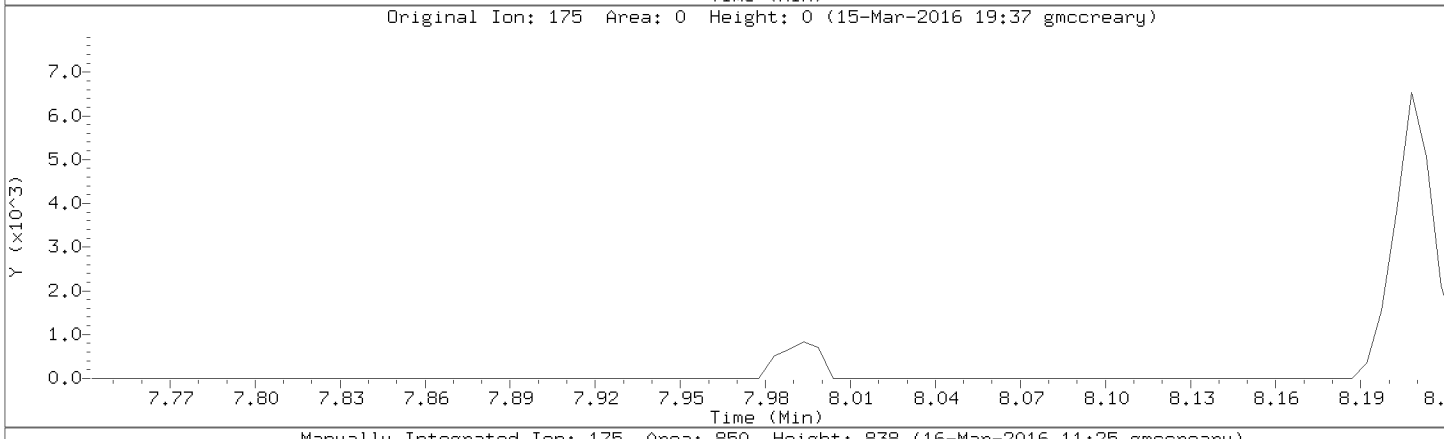


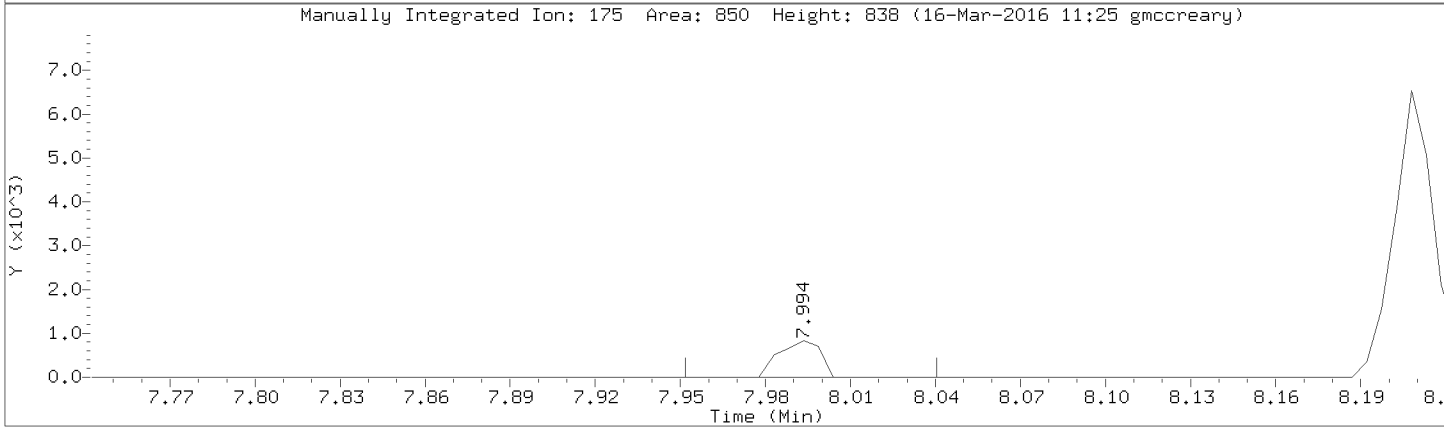
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

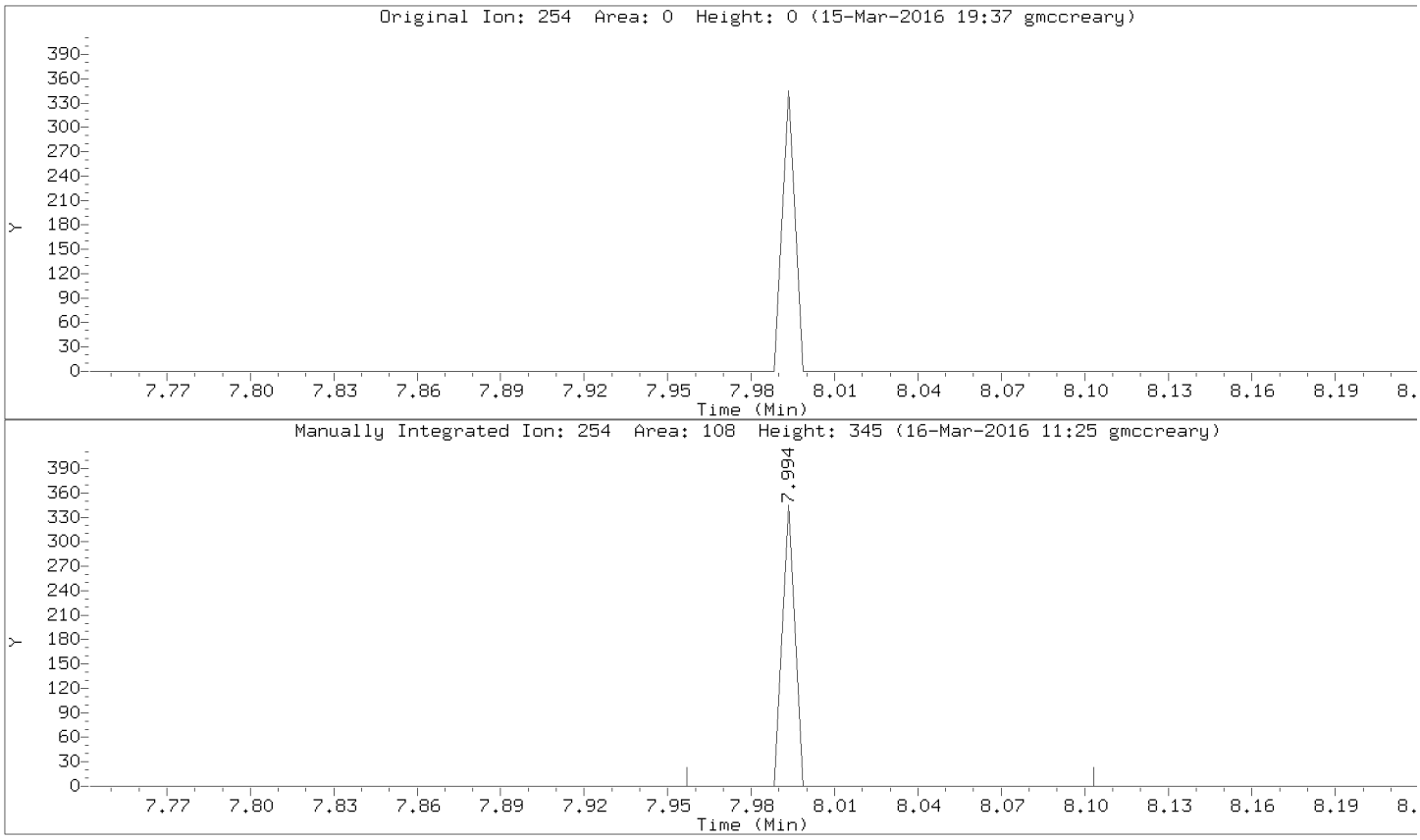






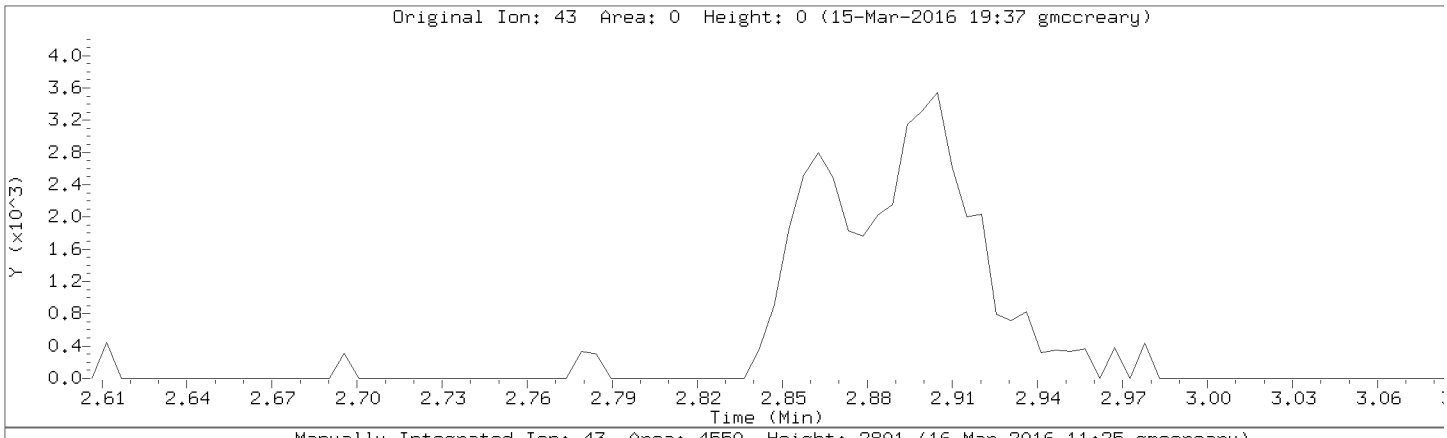


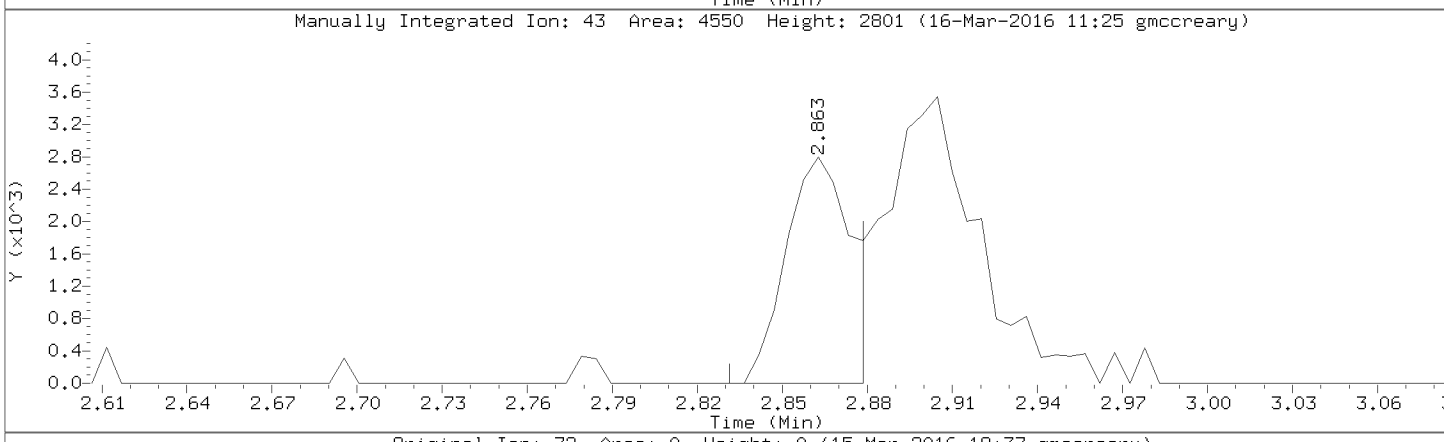
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

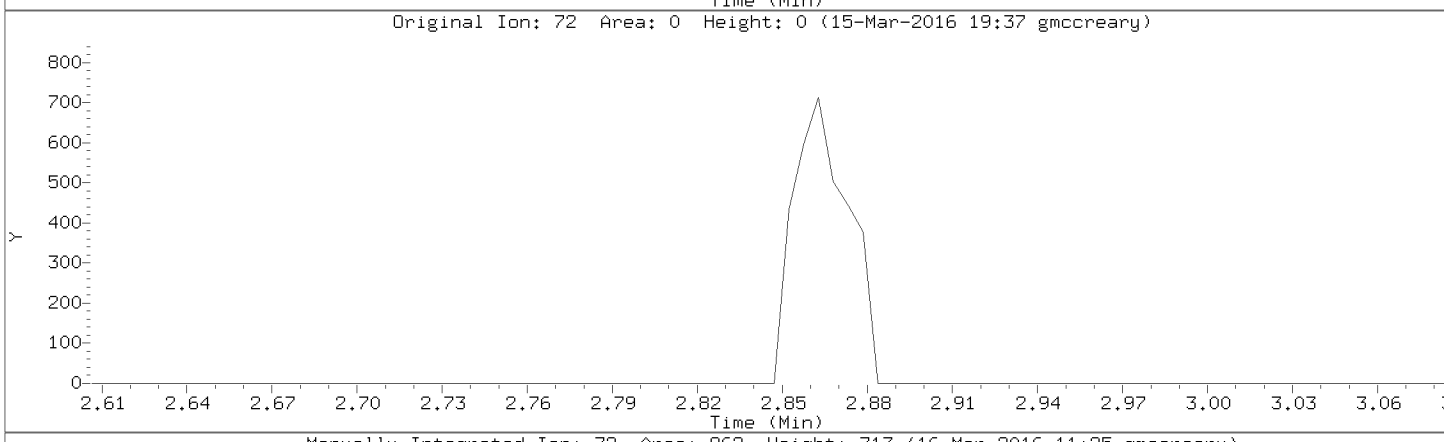


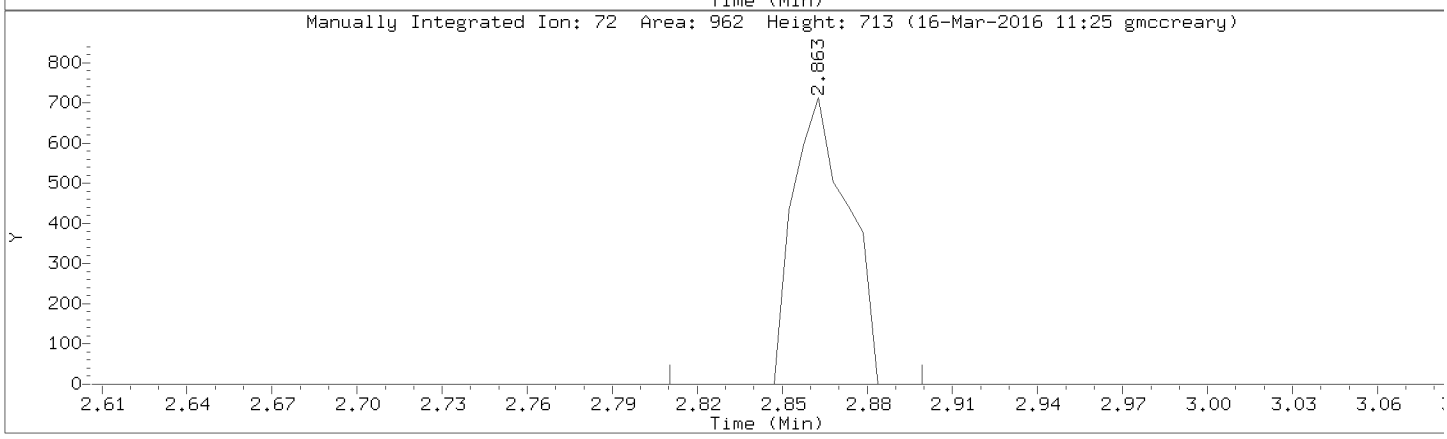
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3

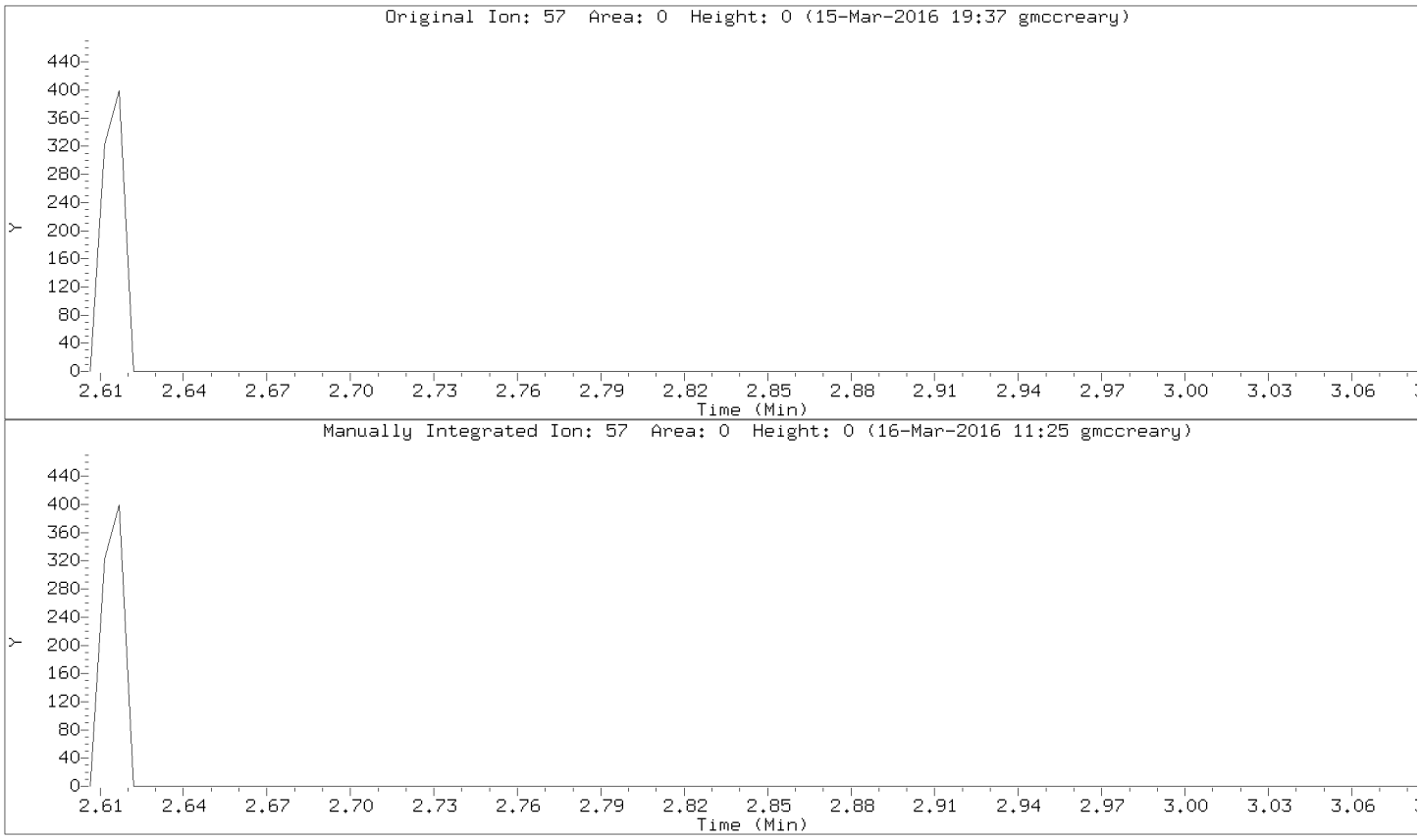






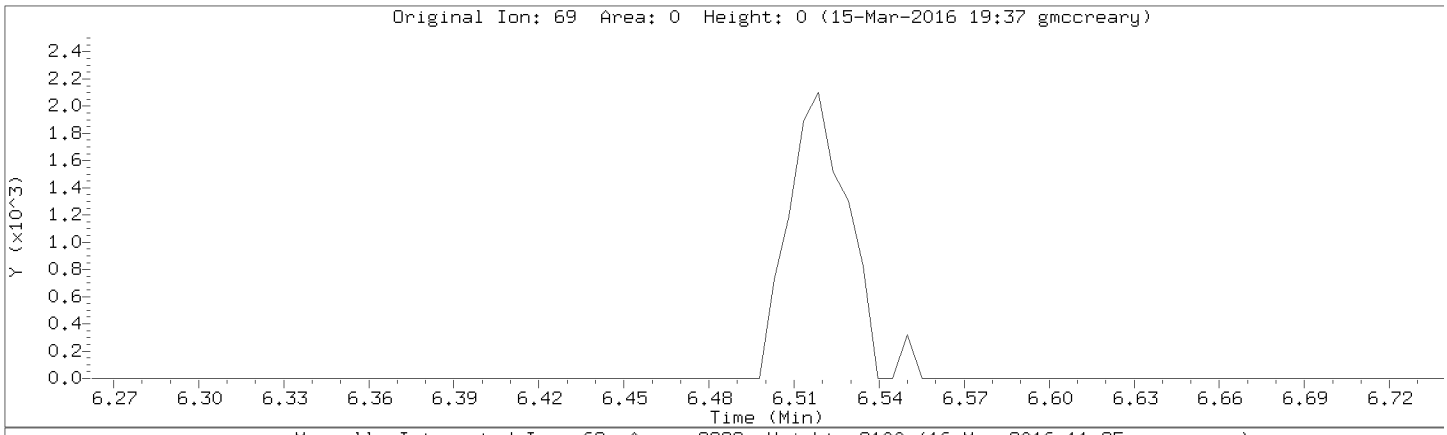


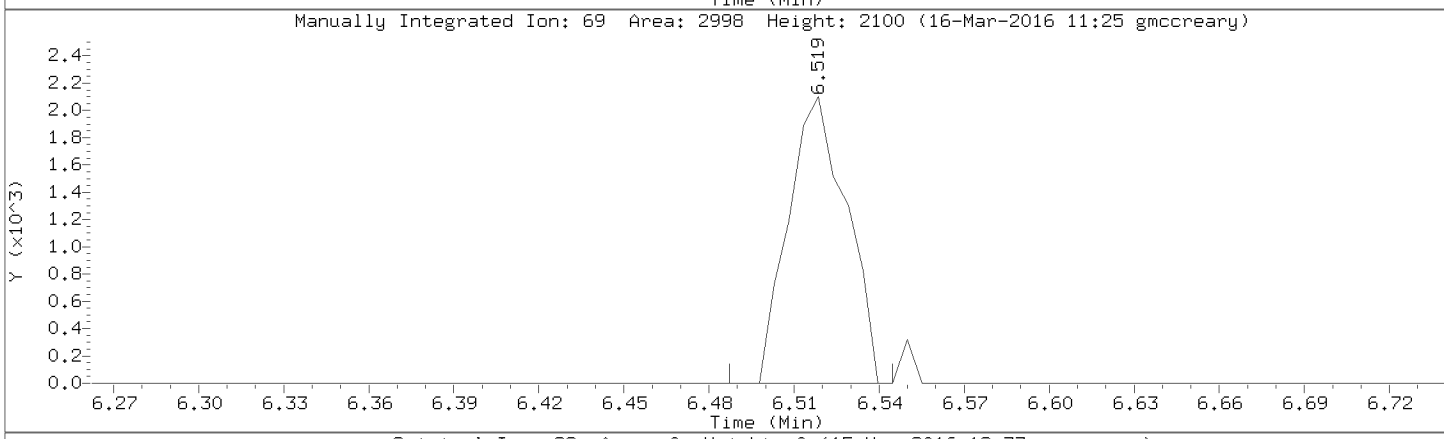
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

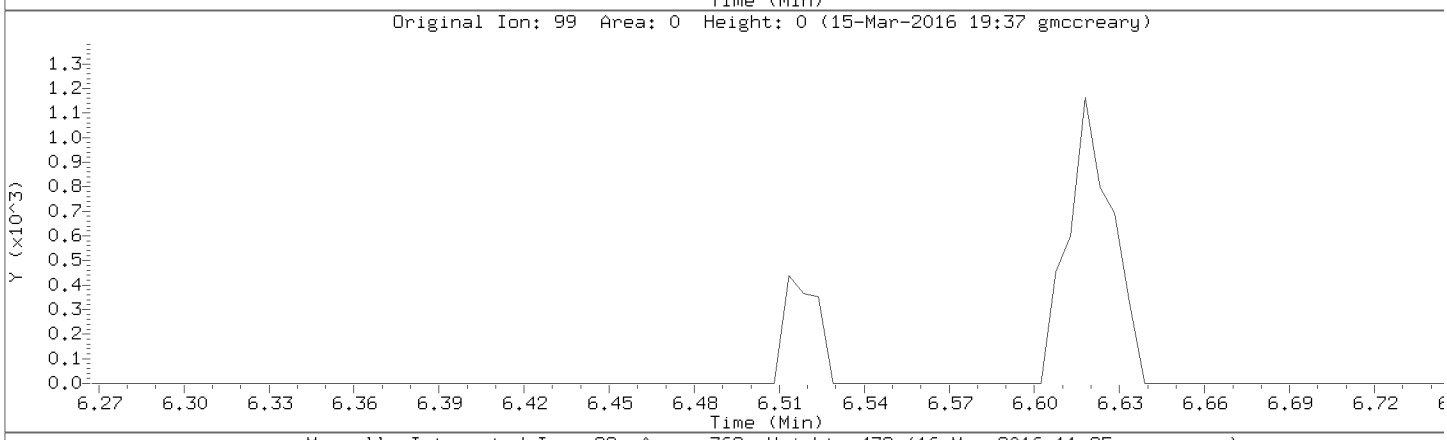


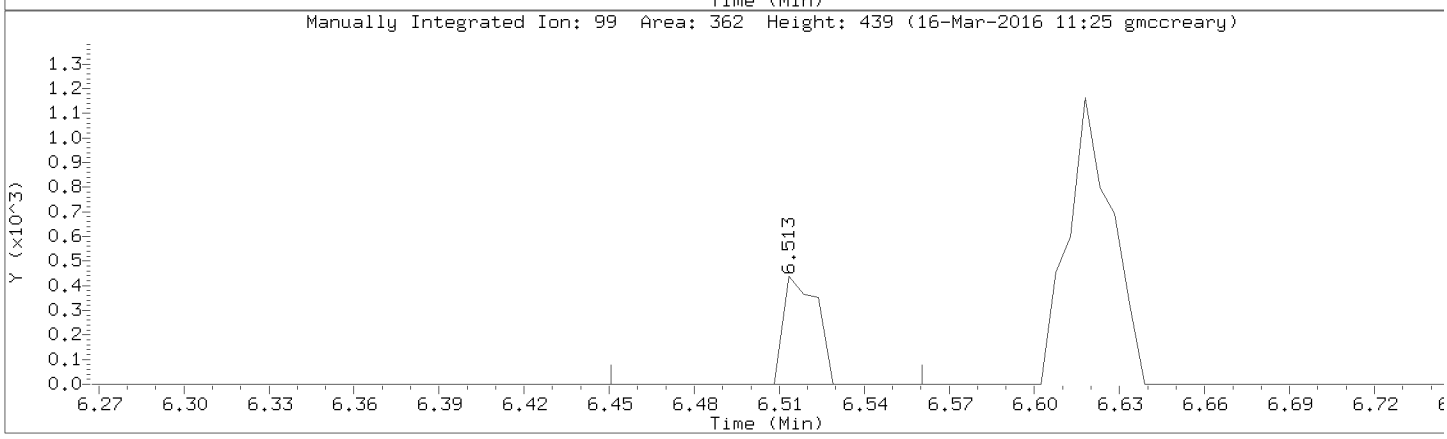
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

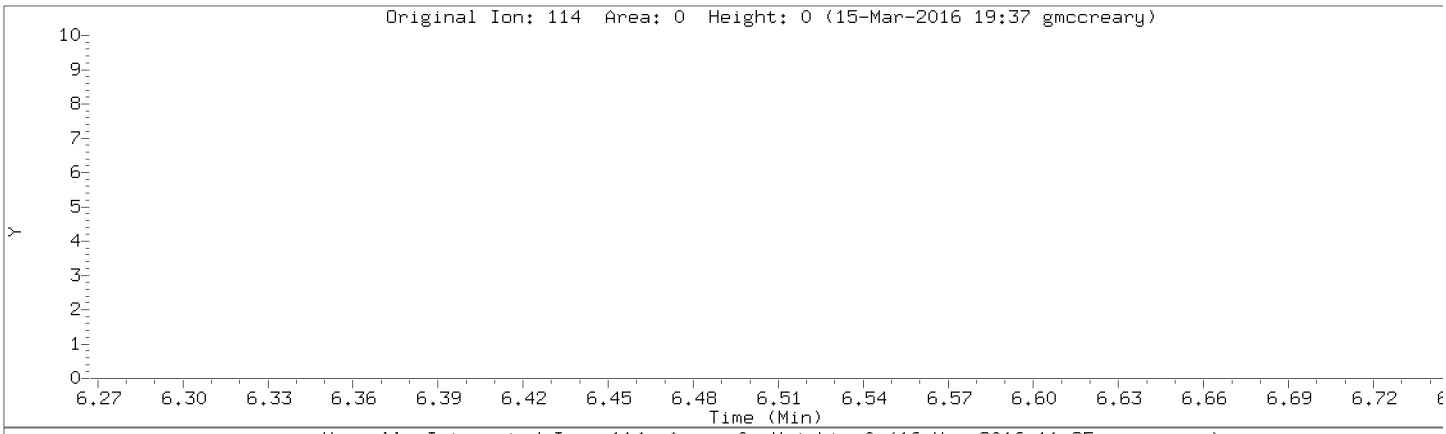


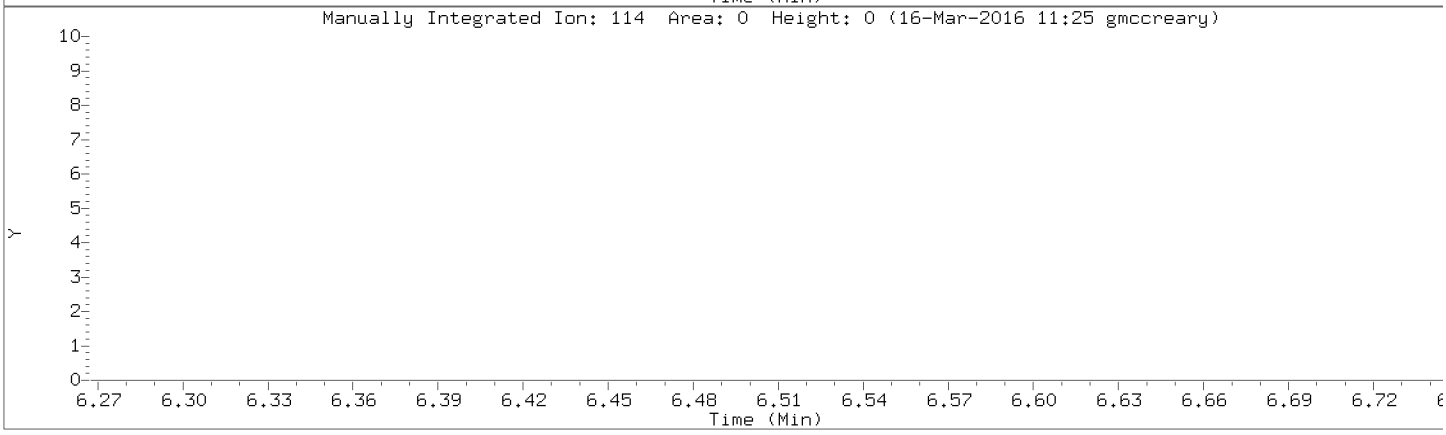






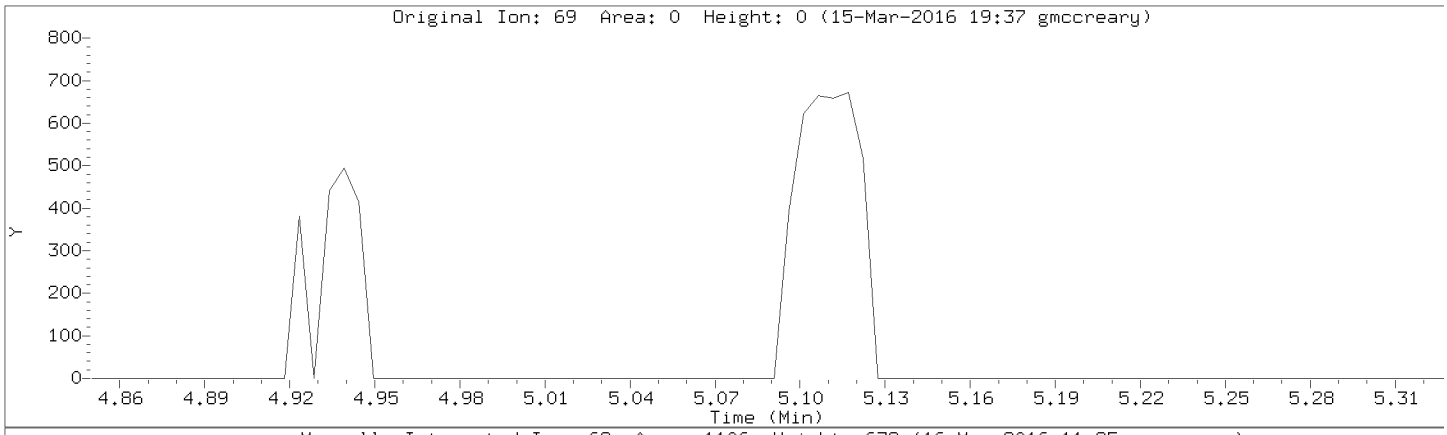
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

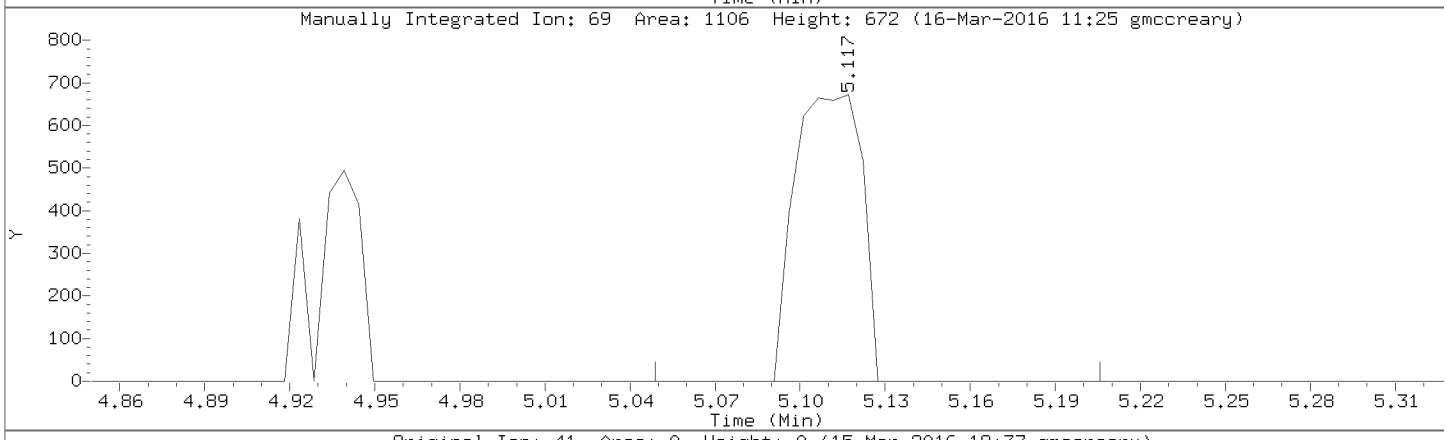


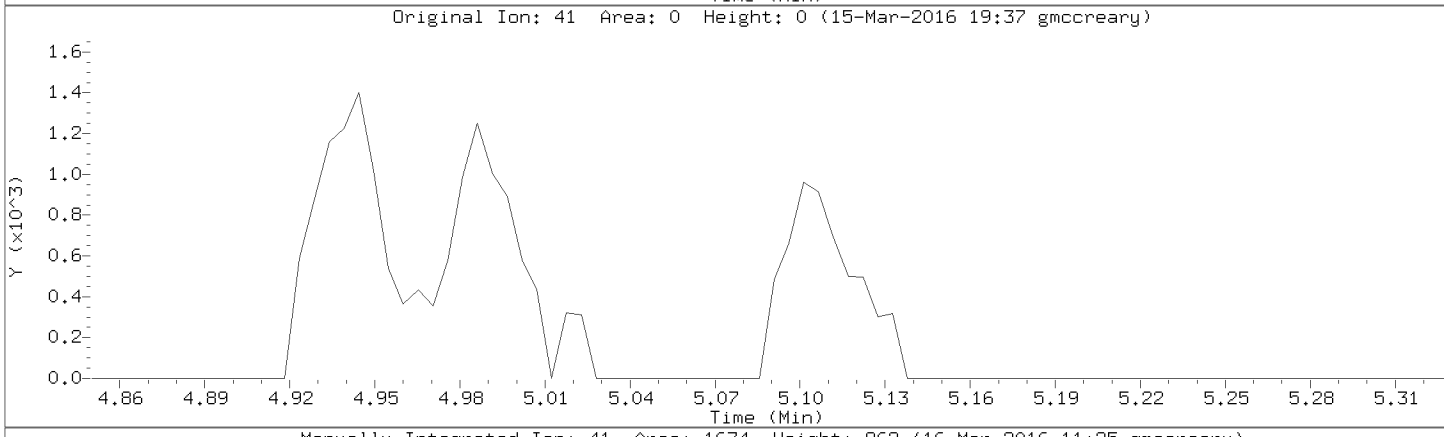


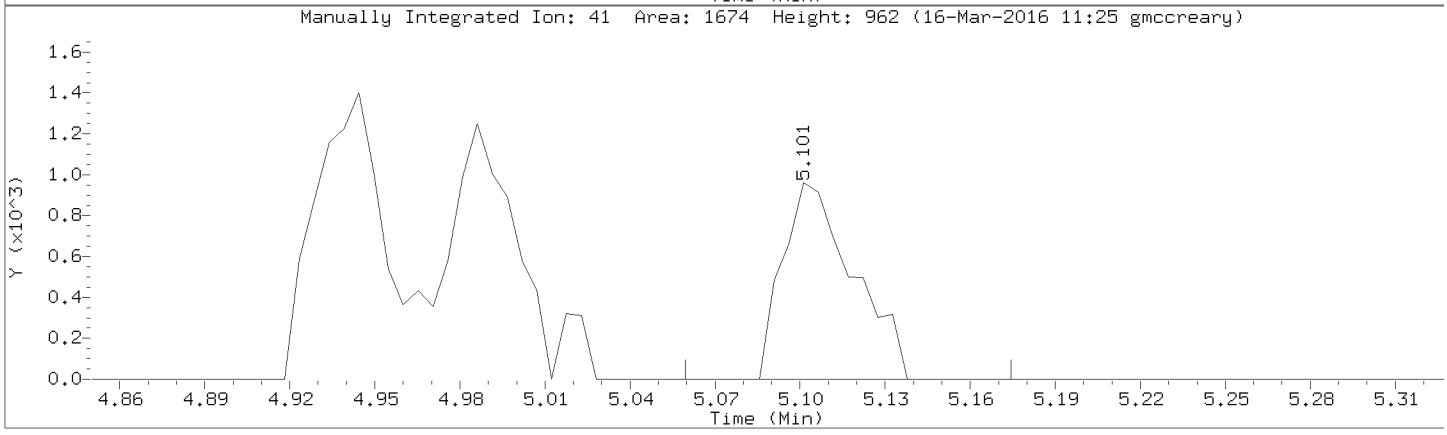
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

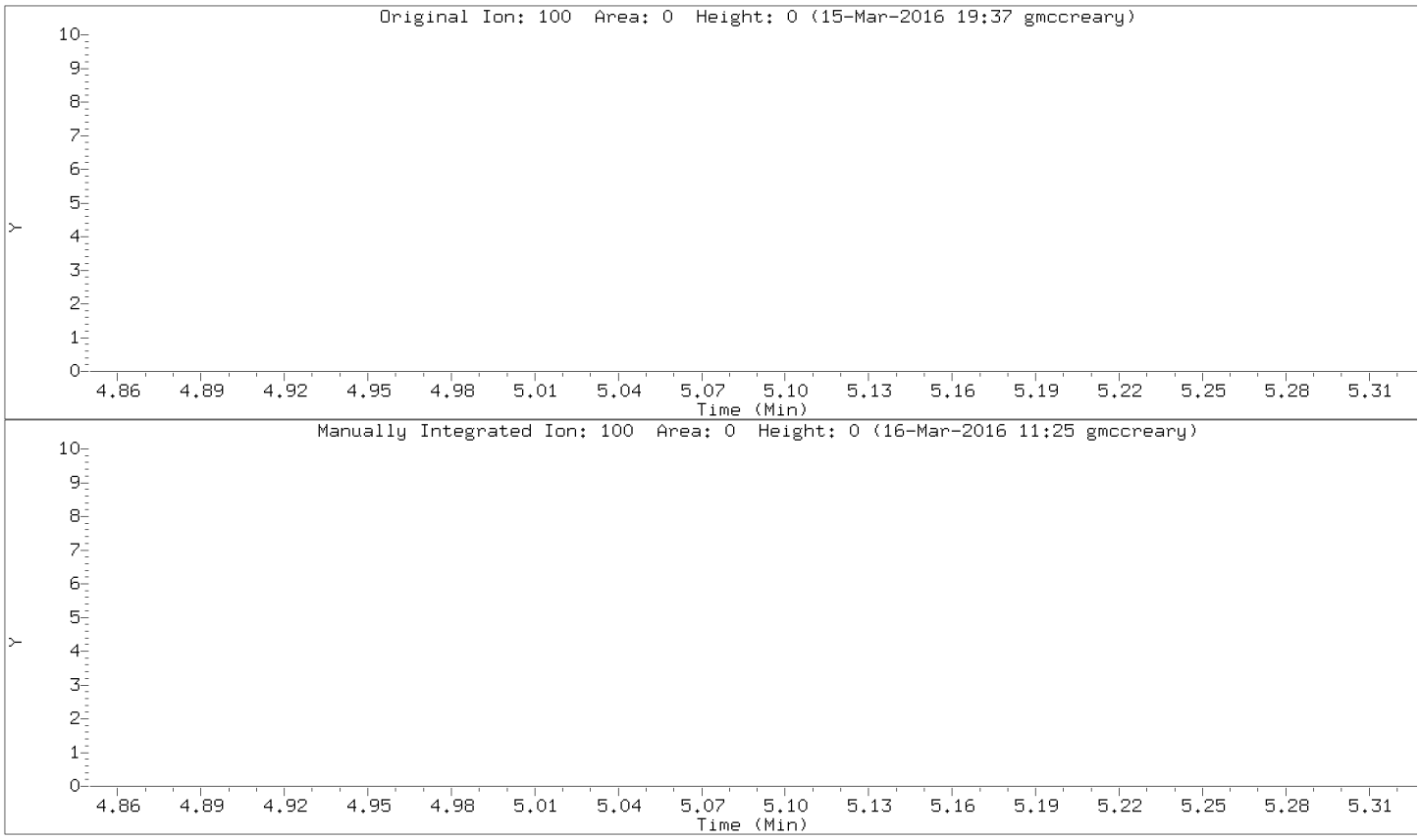






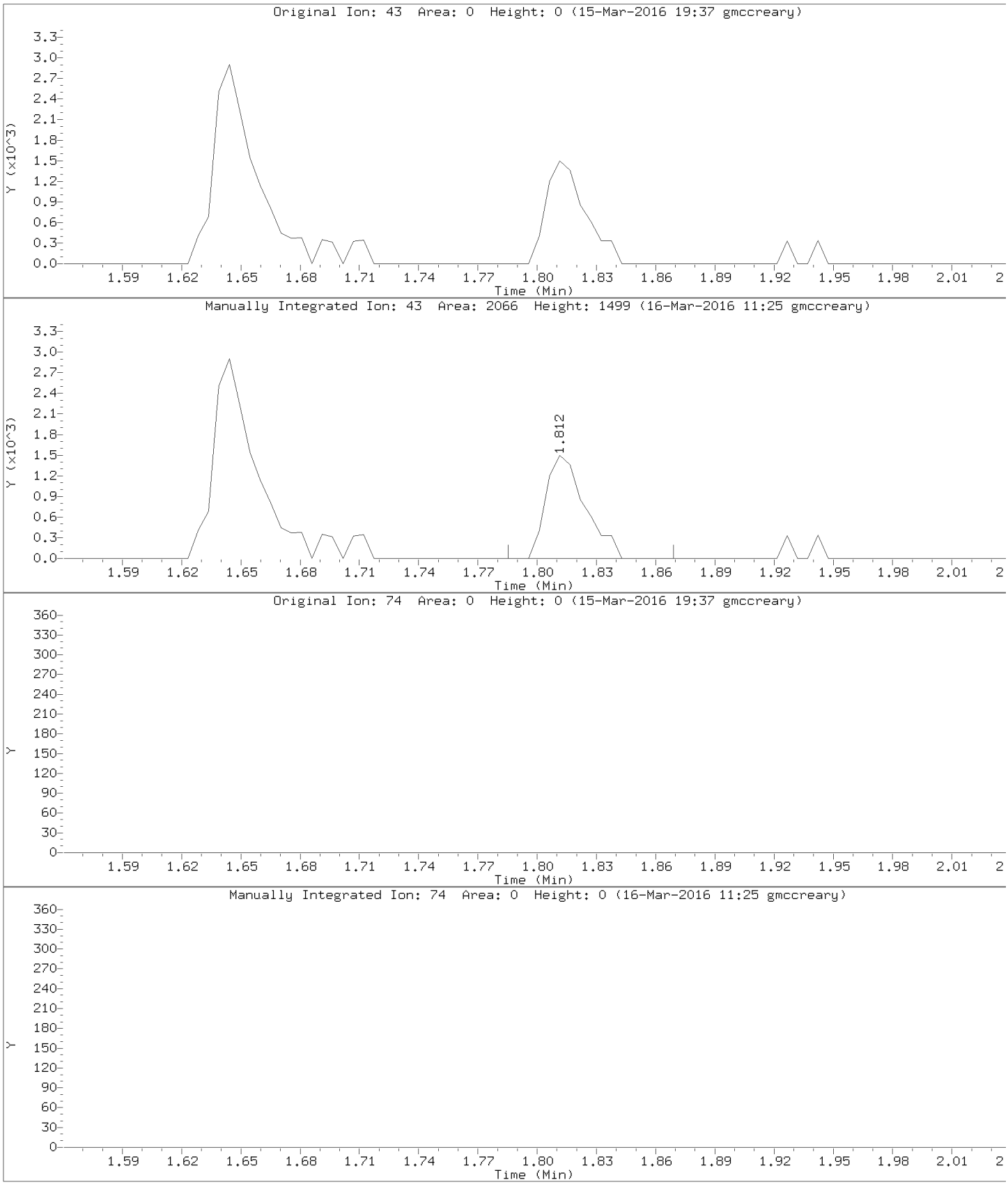


Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0



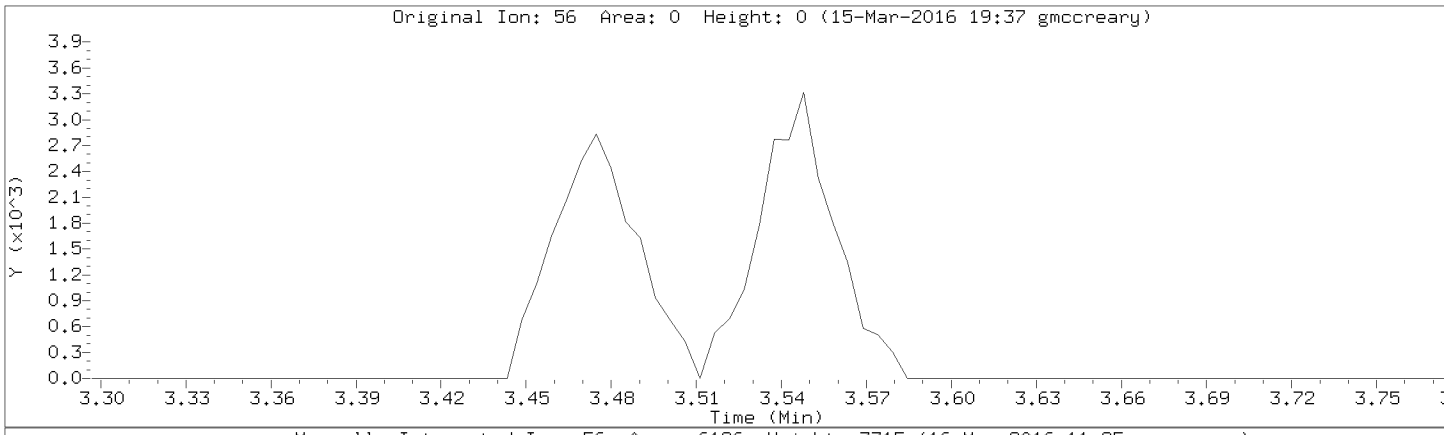
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

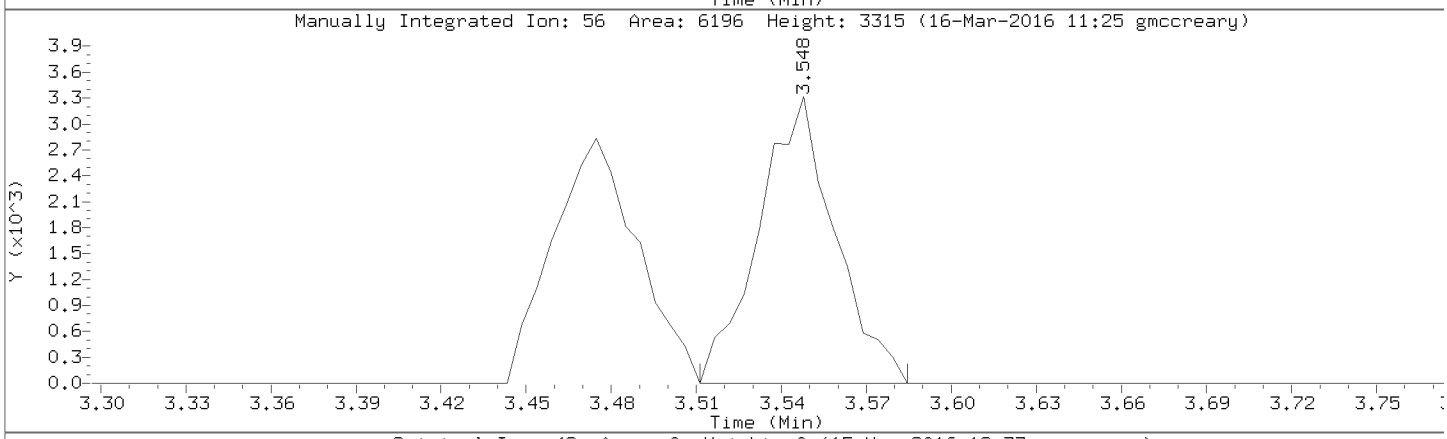
Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9

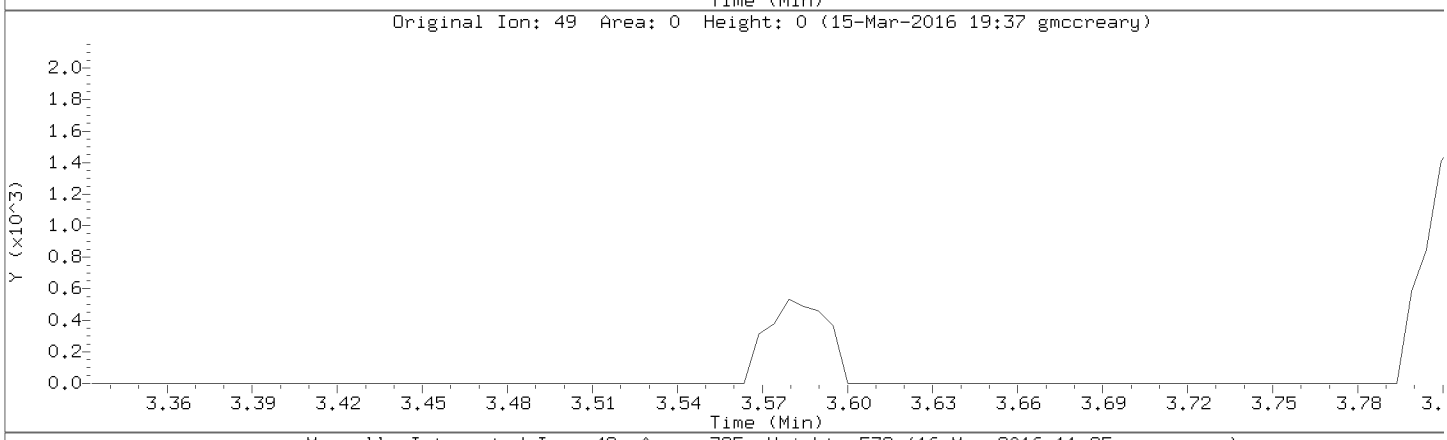


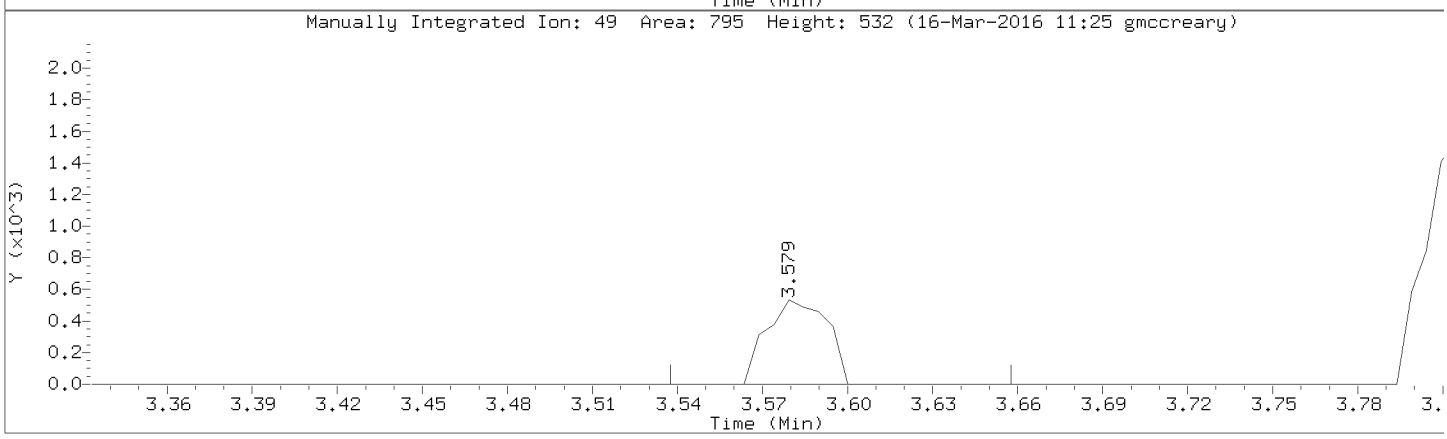
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b02cal.d
Injection Date: 15-MAR-2016 18:36
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL2,117041:0

Compound: n-butyl chloride Review Code: NI
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b03cal.d
Lab Smp Id: 8260-CAL3,117042:0 Client Smp ID: 8260-CAL3,117042:0
Inj Date : 15-MAR-2016 19:11
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal3,117042:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.932	0.931	(0.221)	11189	5.00000	4.87	
2 Chloromethane	50	1.016	1.015	(0.240)	16689	5.00000	4.86	
3 Vinyl Chloride	62	1.063	1.062	(0.252)	11910	5.00000	4.52	
4 Bromomethane	94	1.209	1.208	(0.286)	4404	5.00000	4.25	
5 Chloroethane	64	1.257	1.255	(0.297)	6888	5.00000	5.03	
6 Trichlorofluoromethane	101	1.366	1.371	(0.323)	13193	5.00000	4.78	
7 Diethyl ether	74	1.497	1.496	(0.354)	3693	5.00000	5.37	
8 1,2-dichlorotrifluoroethane	67	1.513	1.512	(0.358)	9707	5.00000	4.90	
9 Acrolein	56	1.576	1.575	(0.373)	15436	100.000	100	
10 1,1,2trichlorotrifluoroethane	101	1.617	1.622	(0.383)	8031	5.00000	4.82	
11 1,1-Dichloroethene	96	1.628	1.627	(0.385)	6225	5.00000	4.68	
12 Acetone	43	1.644	1.642	(0.389)	8686	25.0000	25.3	
13 Iodomethane	142	1.717	1.716	(0.406)	10987	10.0000	7.48	
14 Carbon Disulfide	76	1.764	1.763	(0.417)	23045	5.00000	4.85	
15 Methyl Acetate	43	1.811	1.810	(0.428)	4356	5.00000	4.57	
16 Acetonitrile	39	1.827	1.826	(0.432)	18838	5.00000	5.13	
17 allyl chloride	41	1.827	1.826	(0.432)	25309	10.0000	10.0	
18 Methylene Chloride	84	1.905	1.904	(0.451)	10961	5.00000	6.68	
19 tert-Butyl Alcohol	59	1.947	1.946	(0.461)	1227	10.0000	9.86(Q)	
20 Acrylonitrile	53	2.052	2.045	(0.485)	7390	20.0000	18.8	
21 Methyl-tert-butyl ether	73	2.062	2.066	(0.488)	17655	5.00000	4.83	
22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.492)	7581	5.00000	5.00	
24 n-Hexane	57	2.261	2.260	(0.535)	12274	5.00000	4.60	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.376	2.375	(0.562)	45693	20.0000	17.7	
	26 1,1-Dichloroethane	63	2.386	2.385	(0.565)	13383	5.00000	4.55	
	27 Chloroprene	53	2.444	2.443	(0.578)	13236	5.00000	4.69	
	28 2-Butanone	43	2.857	2.856	(0.676)	11551	25.0000	22.0	
	29 1,2-Dichloroethene (cis)	96	2.873	2.872	(0.680)	7708	5.00000	4.88	
	30 2,2-Dichloropropane	77	2.878	2.872	(0.681)	10668	5.00000	4.60	
	31 Propionitrile	54	2.925	2.919	(0.692)	97	5.00000	4.75(QM)	NI
	32 Methacrylonitrile	41	3.066	3.065	(0.725)	3716	5.00000	5.18(M)	WP
	33 Bromochloromethane	49	3.108	3.107	(0.735)	5494	5.00000	4.70	
	34 Tetrahydrofuran	42	3.124	3.128	(0.739)	2337	5.00000	6.35	
	35 Chloroform	83	3.218	3.217	(0.761)	13634	5.00000	4.82	
	37 1,1,1-Trichloroethane	97	3.396	3.395	(0.803)	11916	5.00000	4.67	
$	38 Dibromofluoromethane (S)	113	3.396	3.395	(0.803)	75185	50.0000	50.4	
	39 Cyclohexane	56	3.474	3.473	(0.822)	14000	5.00000	4.76	
	150 n-butyl chloride	56	3.542	3.546	(0.838)	16721	5.00000	4.70	
	40 Carbon Tetrachloride	117	3.573	3.578	(0.845)	9759	5.00000	4.62	
	41 1,1-Dichloropropene	75	3.589	3.588	(0.849)	10282	5.00000	4.80	
	42 Benzene	78	3.830	3.834	(0.906)	27960	5.00000	4.79	
	43 1,2-Dichloroethane	62	3.924	3.923	(0.928)	9592	5.00000	4.76(M)	WP
	45 2,2,4-Trimethylpentane	57	3.997	4.001	(0.946)	28990	5.00000	4.55	
	44 Isobutyl alcohol	43	4.002	3.996	(0.947)	5359	5.00000	4.33(Q)	
*	46 Fluorobenzene (IS)	96	4.227	4.231	(1.000)	287335	50.0000		
	47 Trichloroethene	95	4.682	4.676	(1.108)	7498	5.00000	4.88	
	48 Methylcyclohexane	55	4.939	4.943	(1.168)	10392	5.00000	4.47	
	49 1,2-Dichloropropane	63	4.991	4.990	(1.181)	7023	5.00000	4.64	
	50 Dibromomethane	93	5.085	5.084	(1.203)	3962	5.00000	4.88	
	51 1,4-Dioxane	88	5.090	5.094	(1.204)	323	100.000	111(QM)	NI
	52 Methyl methacrylate	69	5.101	5.100	(1.207)	2740	5.00000	3.76(Q)	
	53 Bromodichloromethane	83	5.305	5.309	(1.255)	9430	5.00000	4.74	
	54 2-Chloroethyl vinyl ether	63	5.660	5.659	(0.766)	5938	10.0000	8.51	
	55 cis-1,3-Dichloropropene	75	5.802	5.800	(0.785)	9834	5.00000	4.50	
	56 4-Methyl-2-Pentanone	43	5.979	5.978	(0.809)	23919	25.0000	22.3	
$	57 Toluene-d8	98	6.074	6.078	(0.822)	268086	50.0000	49.8	
	58 Toluene	91	6.147	6.151	(0.832)	30790	5.00000	4.66	
	59 trans-1,3-Dichloropropene	75	6.440	6.433	(0.871)	7610	5.00000	4.23	
	60 Ethyl Methacrylate	69	6.518	6.512	(0.882)	6602	5.00000	4.48(M)	NI
	61 1,1,2-Trichloroethane	83	6.623	6.622	(0.896)	4434	5.00000	4.82(Q)	
	62 Tetrachloroethene	166	6.665	6.663	(0.902)	8182	5.00000	4.55	
	63 1,3-Dichloropropane	76	6.759	6.758	(0.914)	8406	5.00000	4.68	
	64 2-Hexanone	43	6.827	6.826	(0.924)	18134	25.0000	23.8	
	65 Dibromochloromethane	129	6.942	6.941	(0.939)	5819	5.00000	4.37	
	66 1,2-Dibromoethane	107	7.025	7.024	(0.950)	5198	5.00000	4.74	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	207313	50.0000		
	68 Chlorobenzene	112	7.412	7.411	(1.003)	21081	5.00000	4.96	
	69 1,1,1,2-Tetrachloroethane	131	7.491	7.490	(1.013)	6431	5.00000	4.60	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	11096	5.00000	4.76	
	71 m&p-Xylene	106	7.595	7.589	(1.028)	28738	10.0000	9.84	
	72 o-Xylene	106	7.852	7.851	(1.062)	14181	5.00000	4.96	
	73 Styrene	104	7.867	7.866	(1.064)	22927	5.00000	4.84	
	74 Bromoform	173	7.988	7.992	(0.899)	3691	5.00000	4.05	
	75 Isopropylbenzene	105	8.098	8.096	(1.096)	37915	5.00000	4.71	
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	100715	50.0000	53.5	
	77 Bromobenzene	77	8.286	8.285	(1.121)	13459	5.00000	4.99	
	79 1,1,2,2-Tetrachloroethane	83	8.302	8.300	(0.934)	6553	5.00000	4.82	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
80 trans-1,4-Dichloro-2-butene	53	8.317	8.316	(1.125)	1722	5.00000	4.33(Q)	
81 1,2,3-Trichloropropane	110	8.328	8.332	(0.937)	1647	5.00000	4.31	
82 n-Propylbenzene	91	8.354	8.353	(0.940)	44483	5.00000	4.81	
83 2-Chlorotoluene	91	8.401	8.405	(0.945)	27486	5.00000	5.20	
84 1,3,5-Trimethylbenzene	105	8.464	8.463	(0.952)	29881	5.00000	4.75	
85 4-Chlorotoluene	126	8.479	8.478	(0.954)	9245	5.00000	4.92	
86 tert-Butylbenzene	119	8.641	8.646	(0.972)	29431	5.00000	4.87	
87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	32263	5.00000	4.93	
88 sec-Butylbenzene	105	8.767	8.766	(0.986)	39472	5.00000	4.67	
89 1,3-Dichlorobenzene	146	8.840	8.839	(0.995)	19264	5.00000	4.94	
90 p-Isopropyltoluene	119	8.856	8.855	(0.996)	35245	5.00000	4.72	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.886	(1.000)	113228	50.0000		
92 1,4-Dichlorobenzene	146	8.898	8.897	(1.001)	19034	5.00000	4.87	
93 n-Butylbenzene	91	9.076	9.075	(1.021)	32043	5.00000	4.75	
94 1,2-Dichlorobenzene	146	9.091	9.090	(1.023)	17822	5.00000	5.20	
95 1,2-Dibromo-3-chloropropane	155	9.515	9.509	(1.071)	1050	5.00000	4.83(Q)	
96 1,2,4-Trichlorobenzene	180	9.933	9.922	(1.118)	14451	5.00000	4.89	
97 Hexachlorobutadiene	225	9.996	9.985	(1.125)	10250	5.00000	4.99	
98 Naphthalene	128	10.075	10.063	(1.134)	27782	5.00000	4.80	
99 1,2,3-Trichlorobenzene	180	10.190	10.178	(1.147)	13347	5.00000	4.71	
100 2,methyl-naphthalene	142	10.723	10.706	(1.207)	18418	5.00000	4.75	
101 1-methylnaphthalene	142	10.838	10.821	(1.219)	16164	5.00000	4.61	

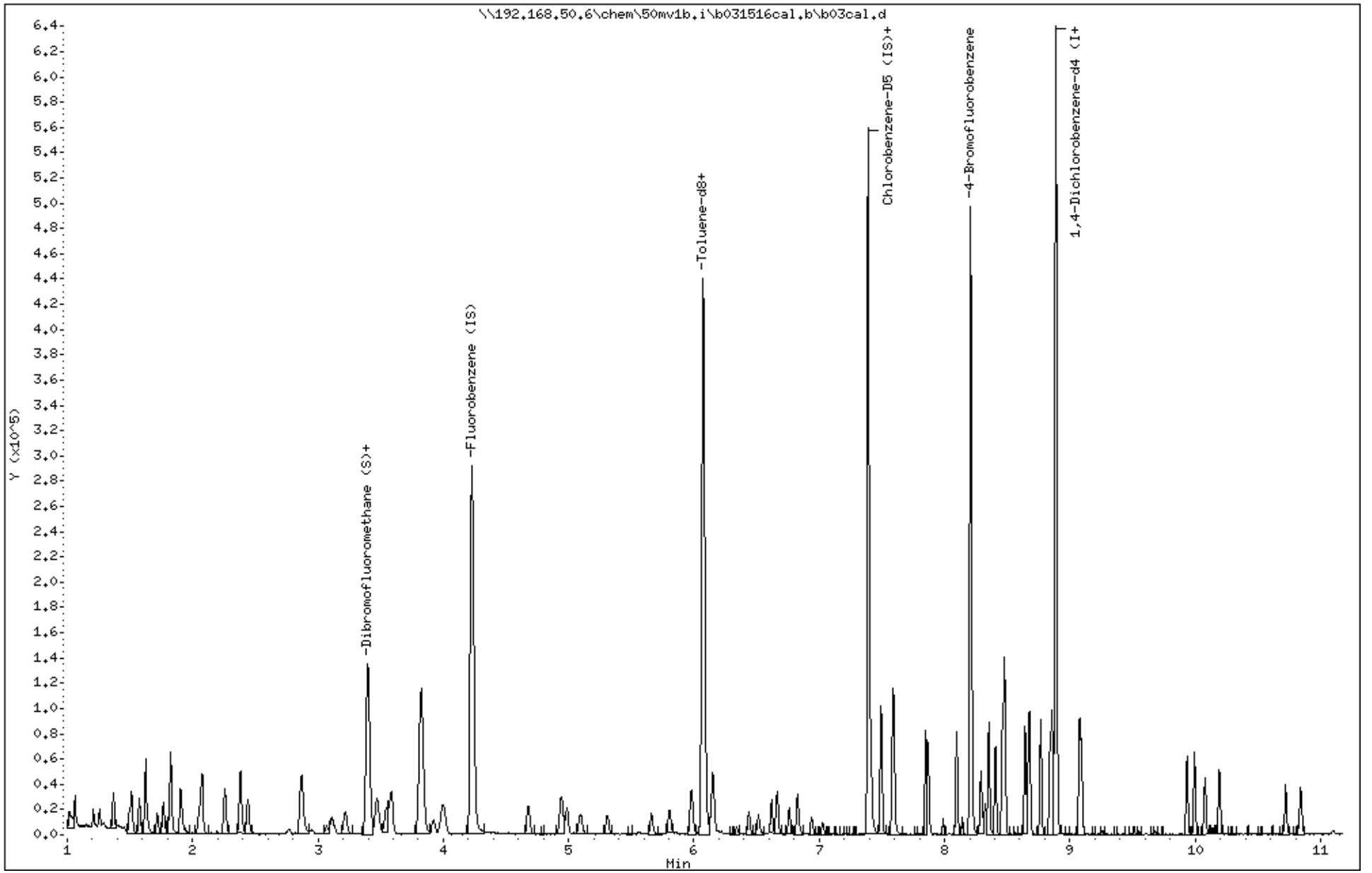
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

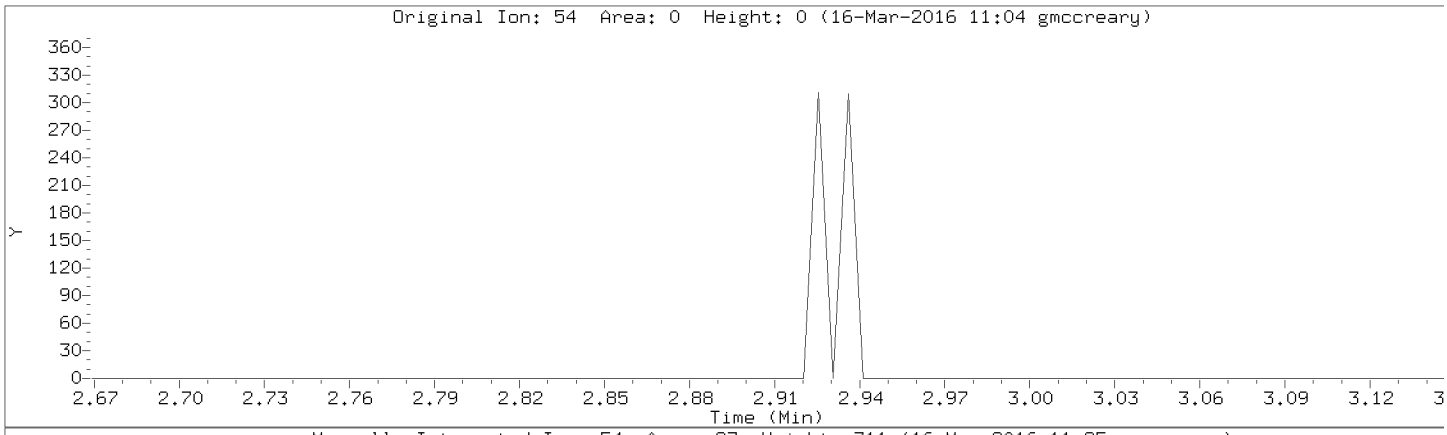
:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

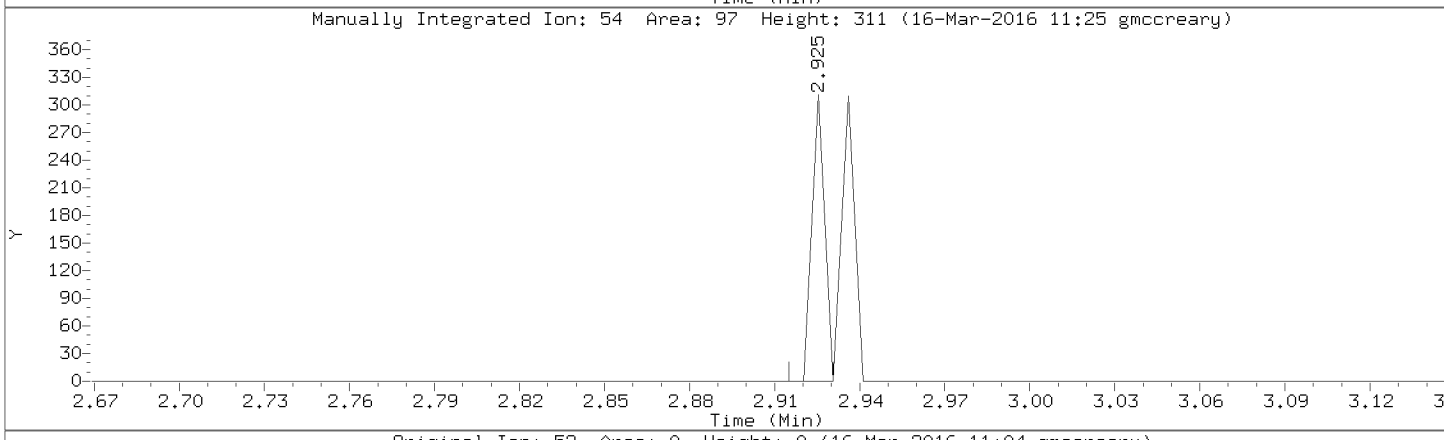
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b03cal.d
Date : 15-MAR-2016 19:11
Client ID: 8260-CAL3,117042:0
Instrument: 50mv1b.i
Sample Info: 8260-CAL3,117042:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

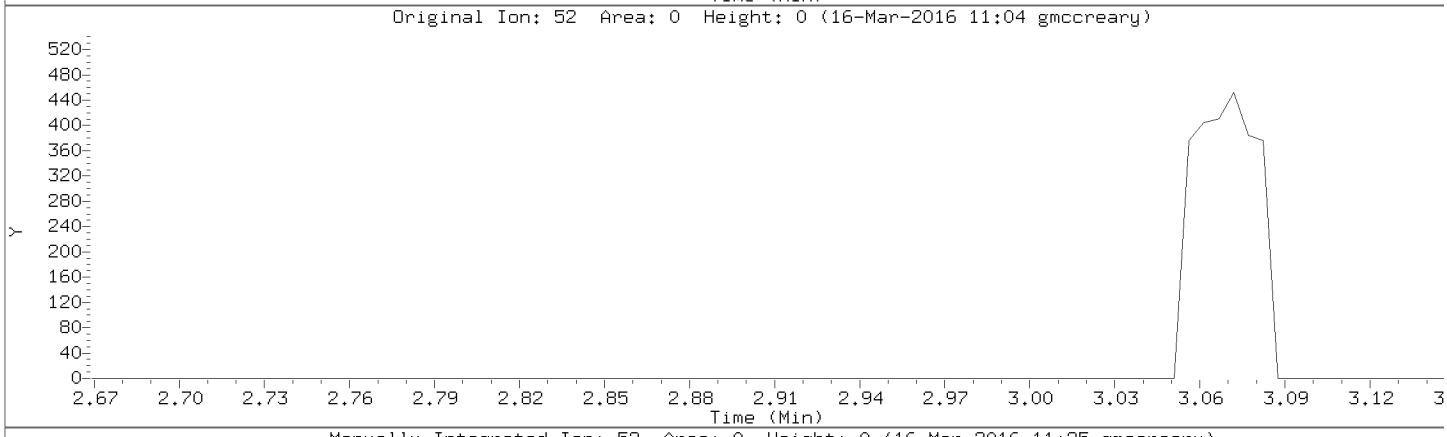


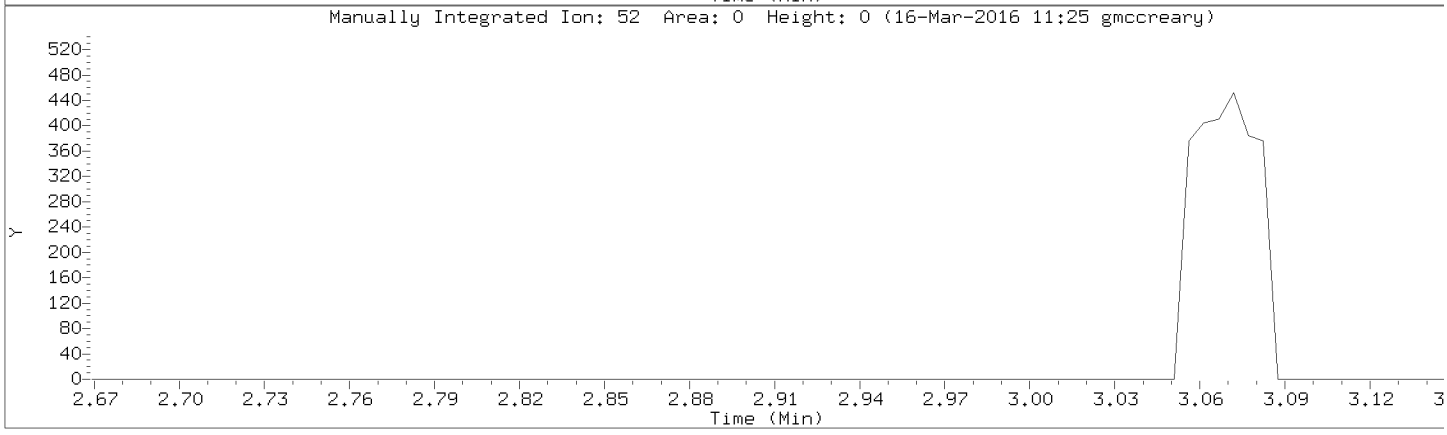
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0

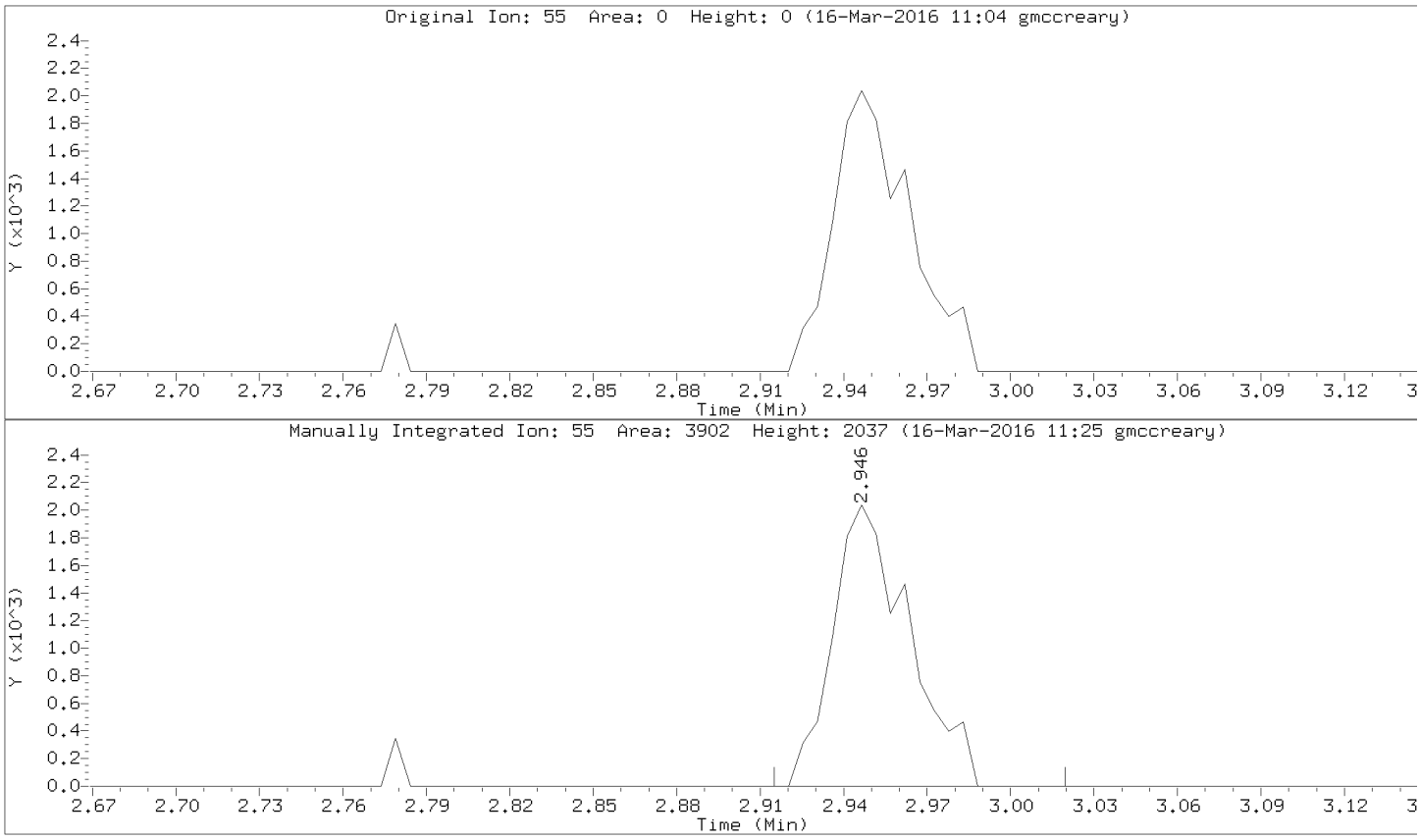






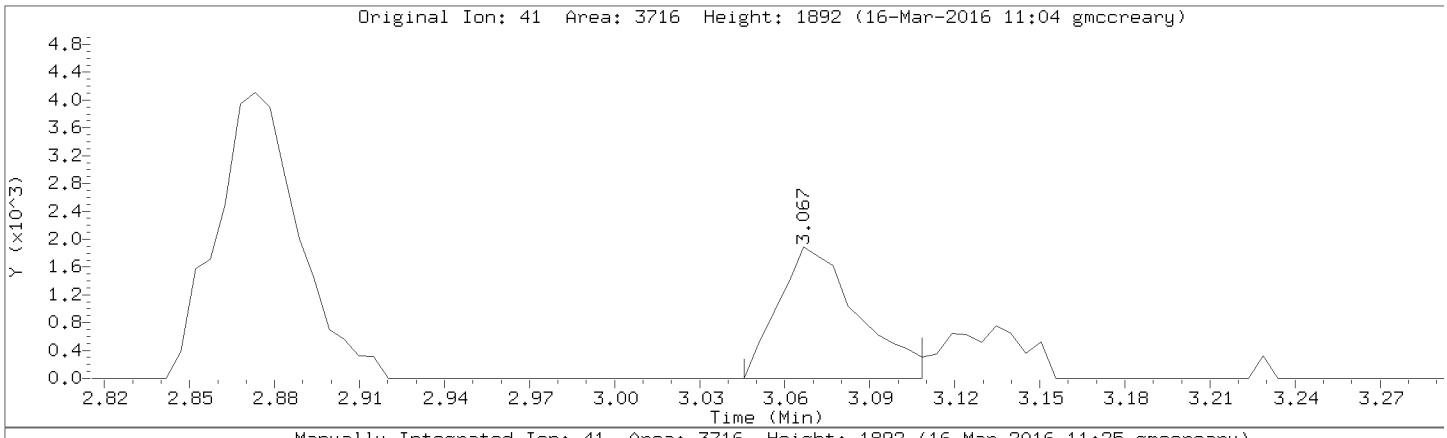


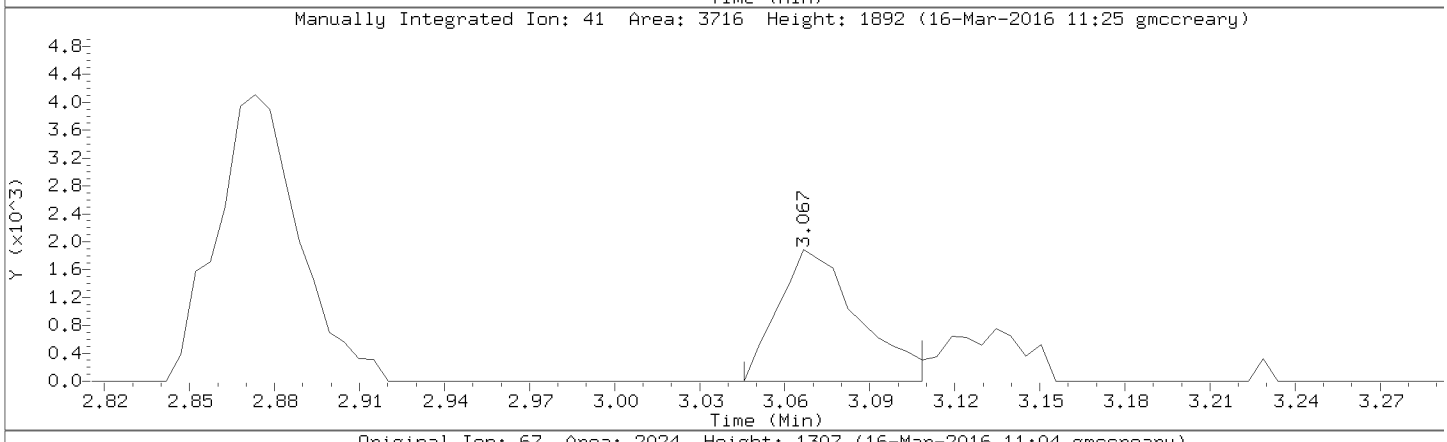
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

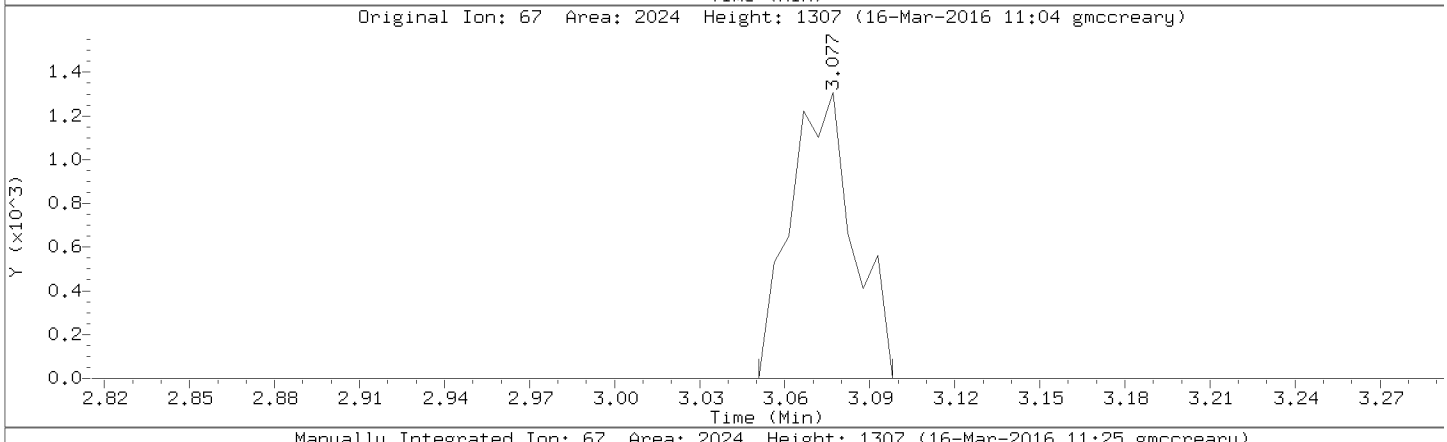


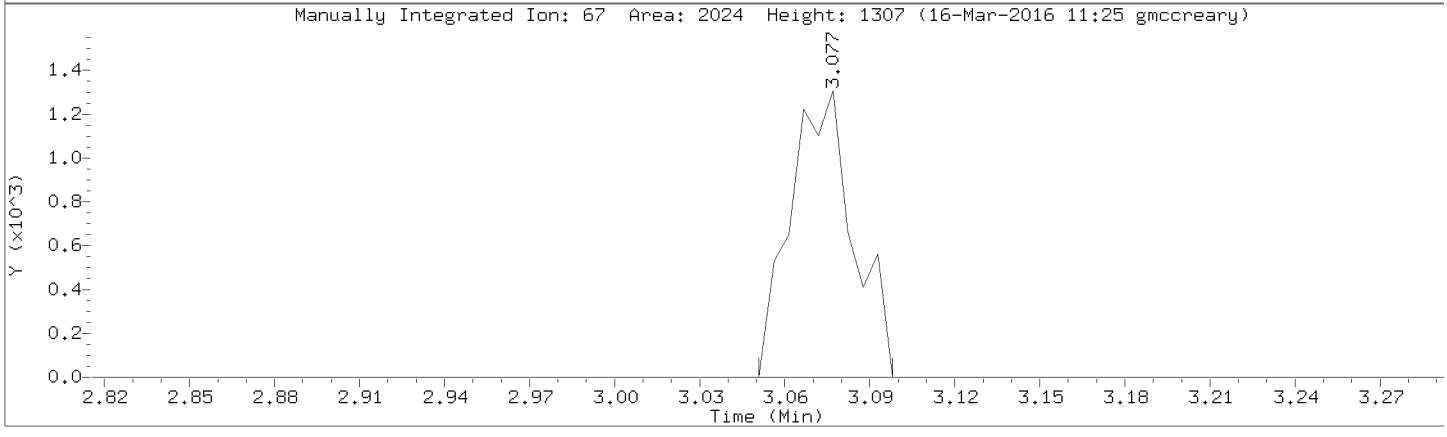
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: Methacrylonitrile Review Code: WP
CAS Number: 126-98-7

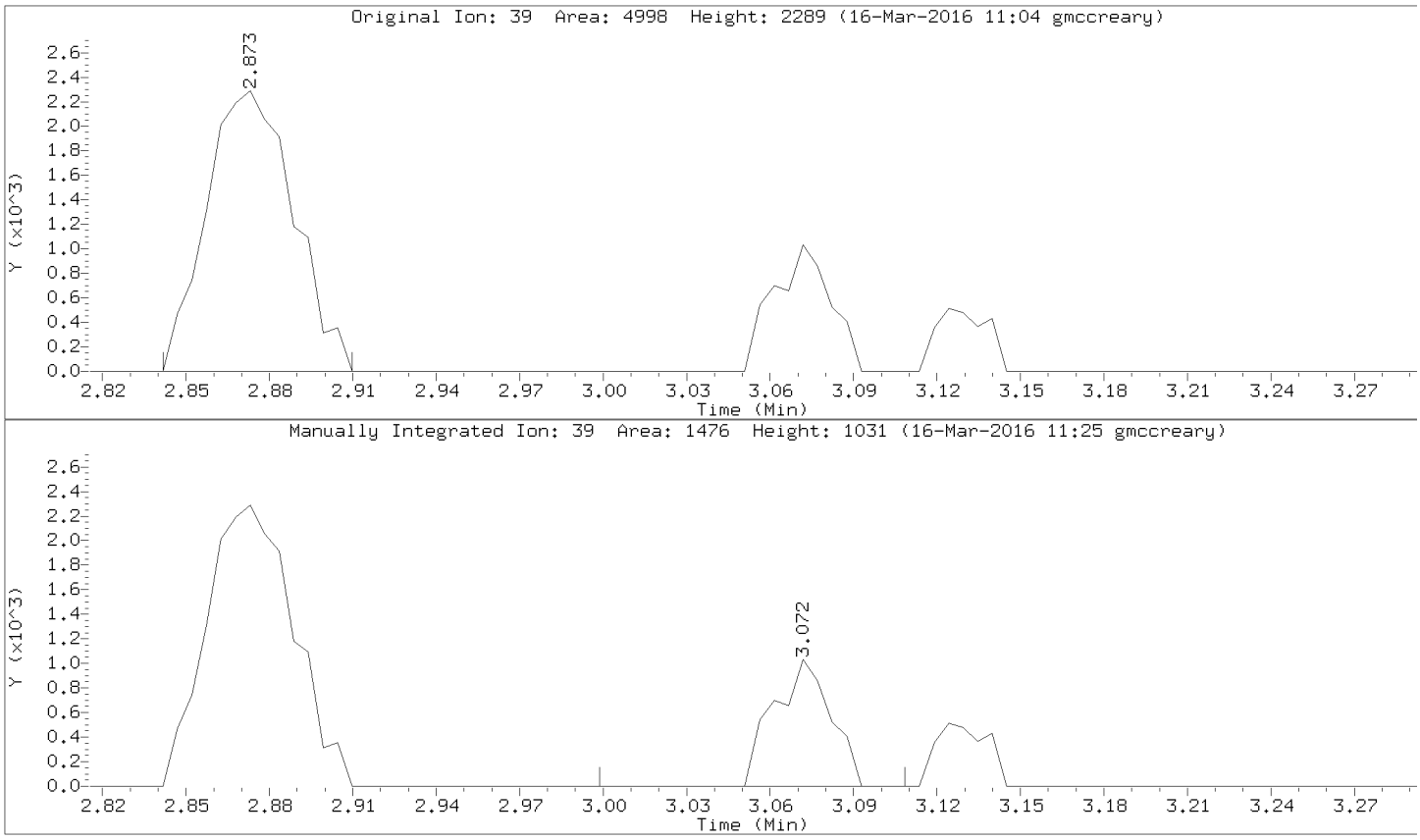






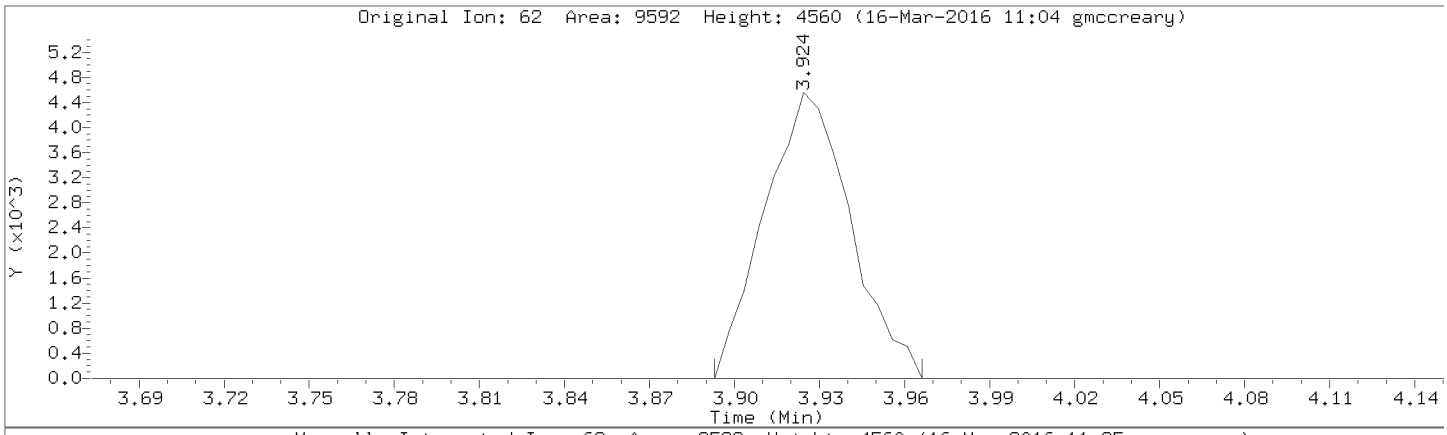


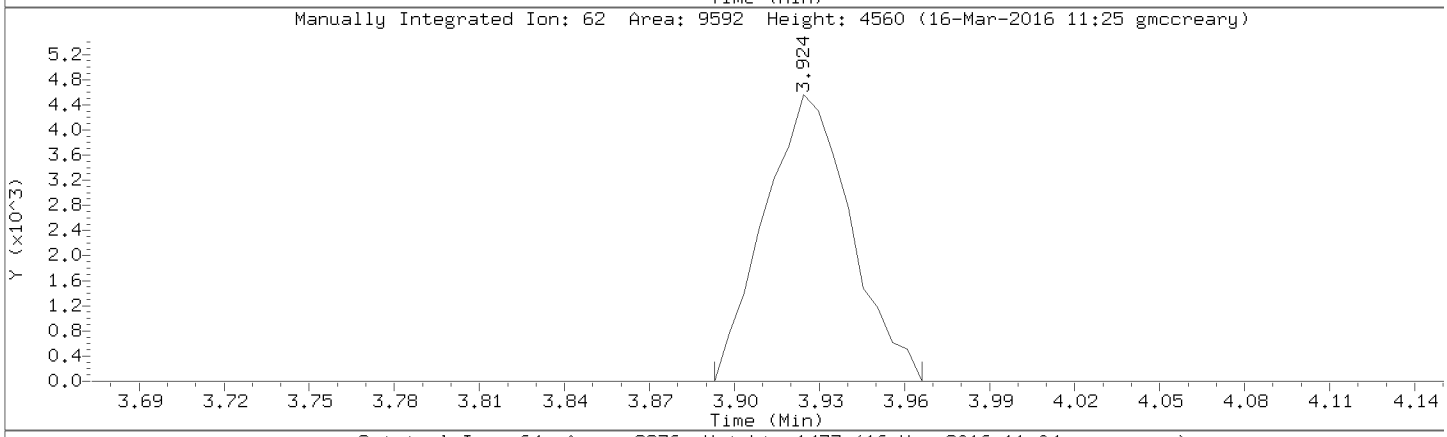
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

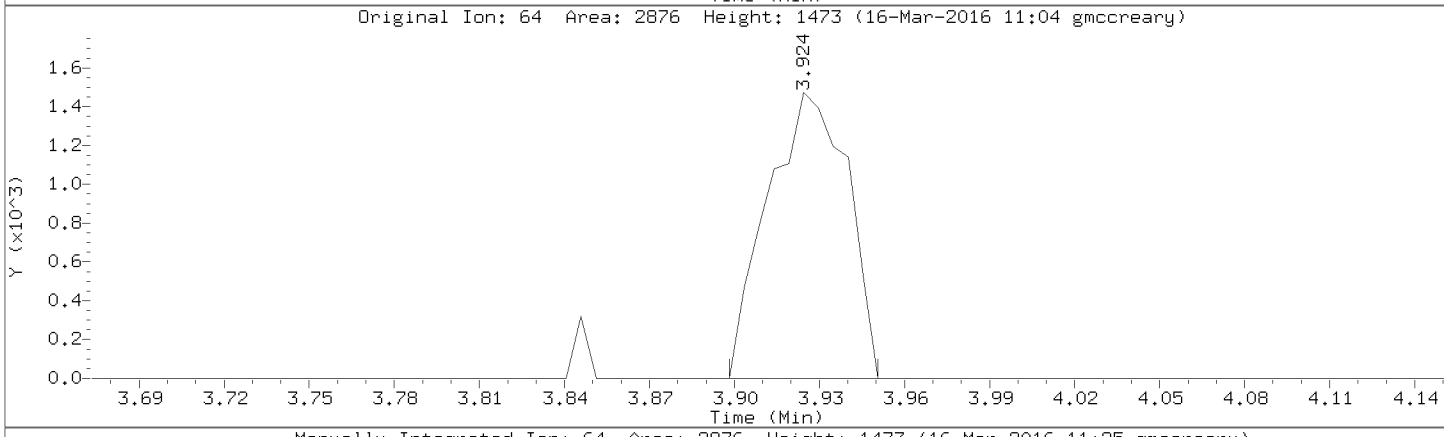


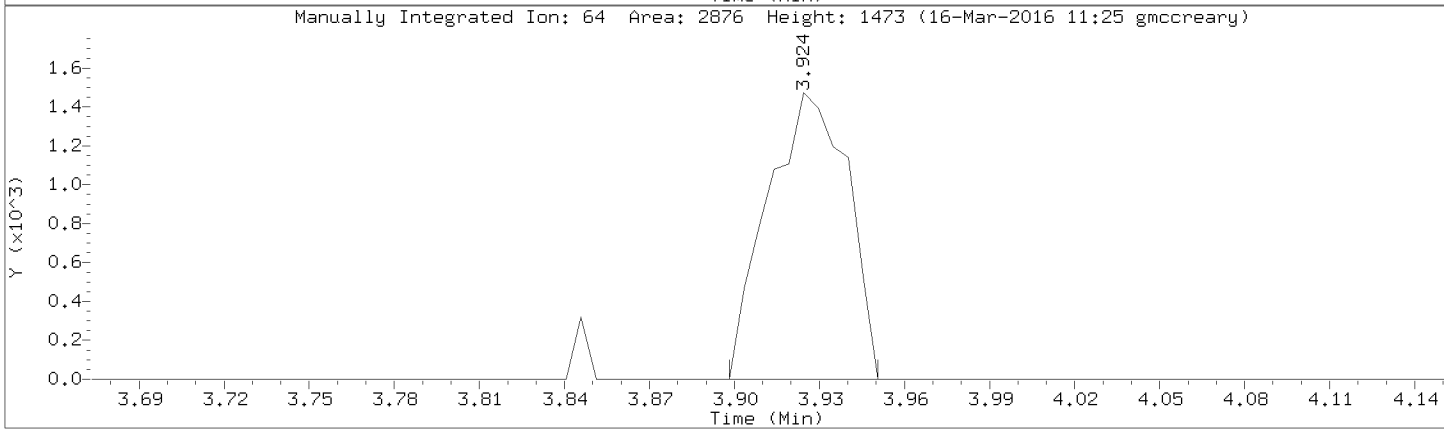
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: 1,2-Dichloroethane Review Code: WP
CAS Number: 107-06-2

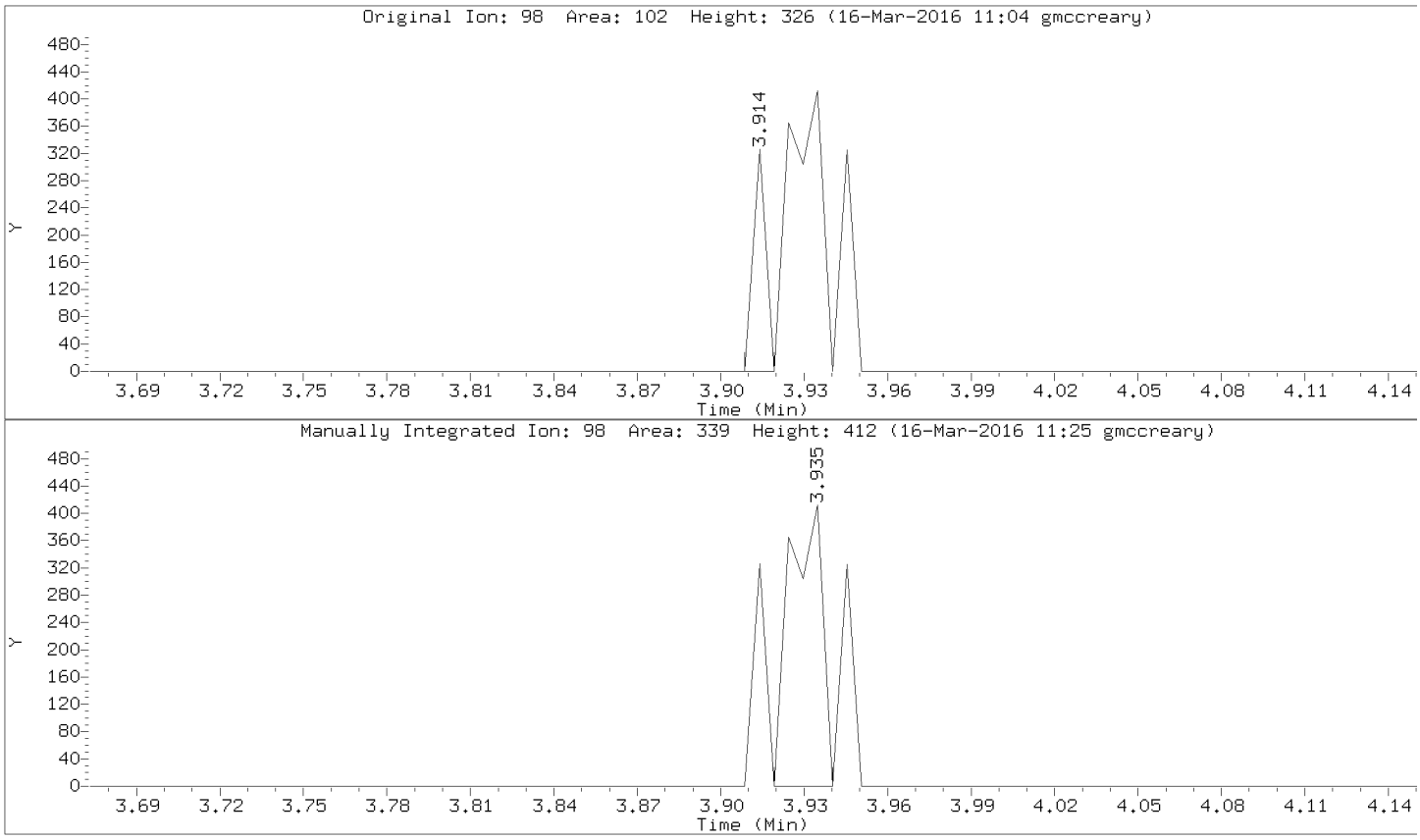






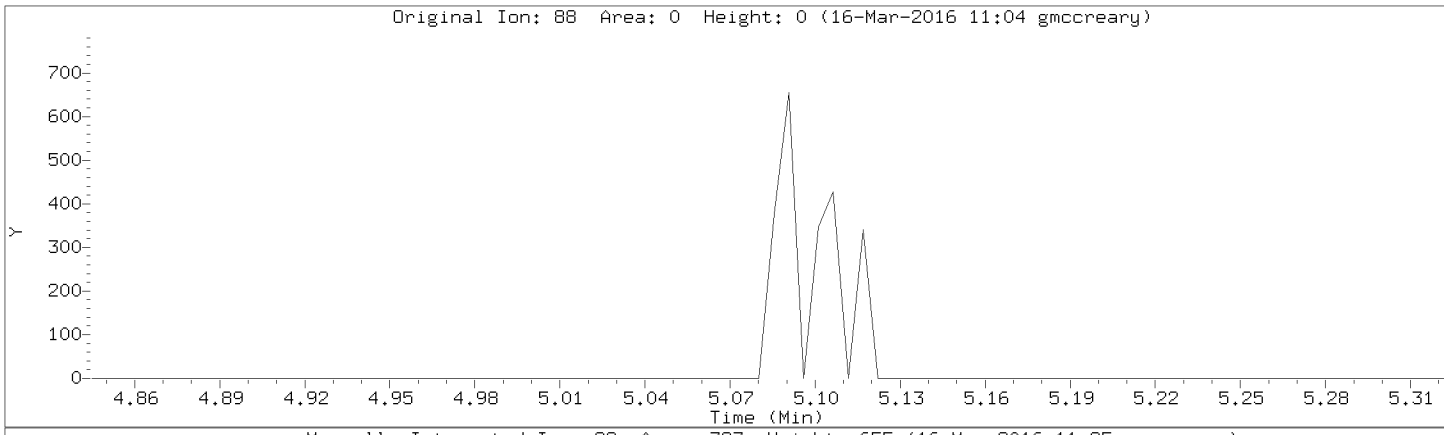


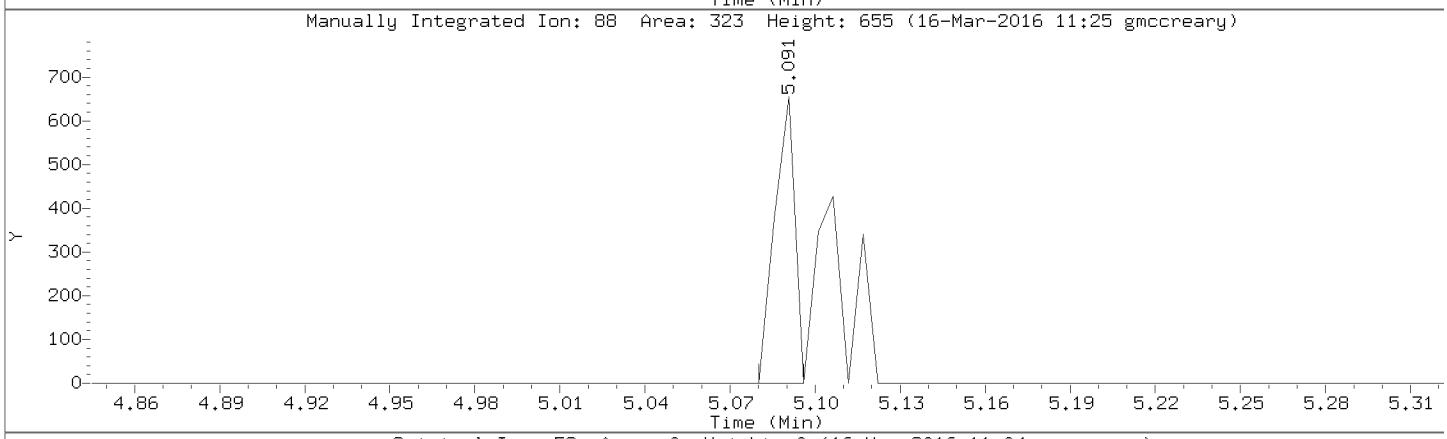
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

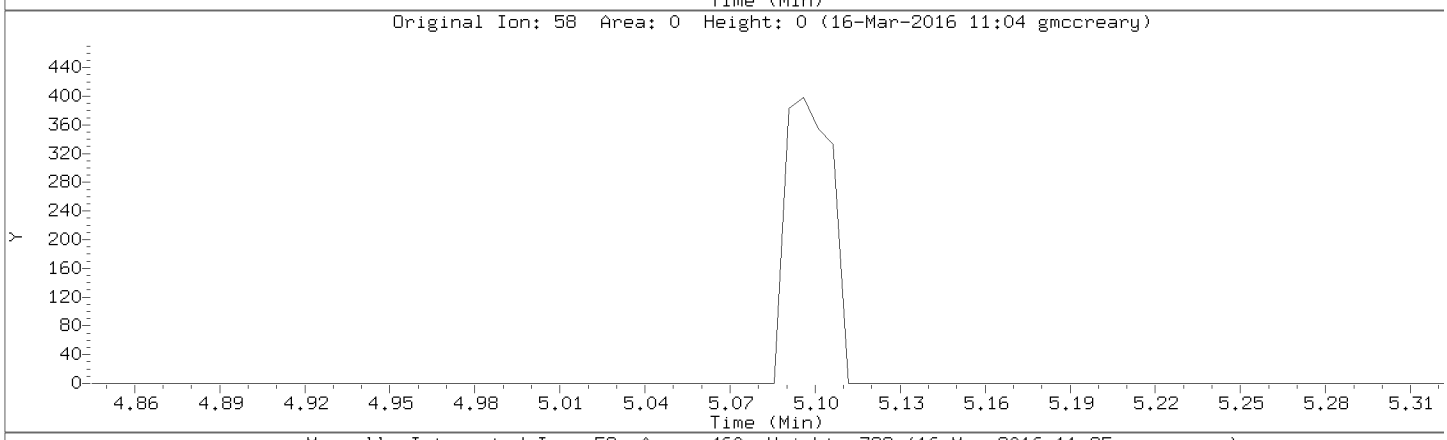


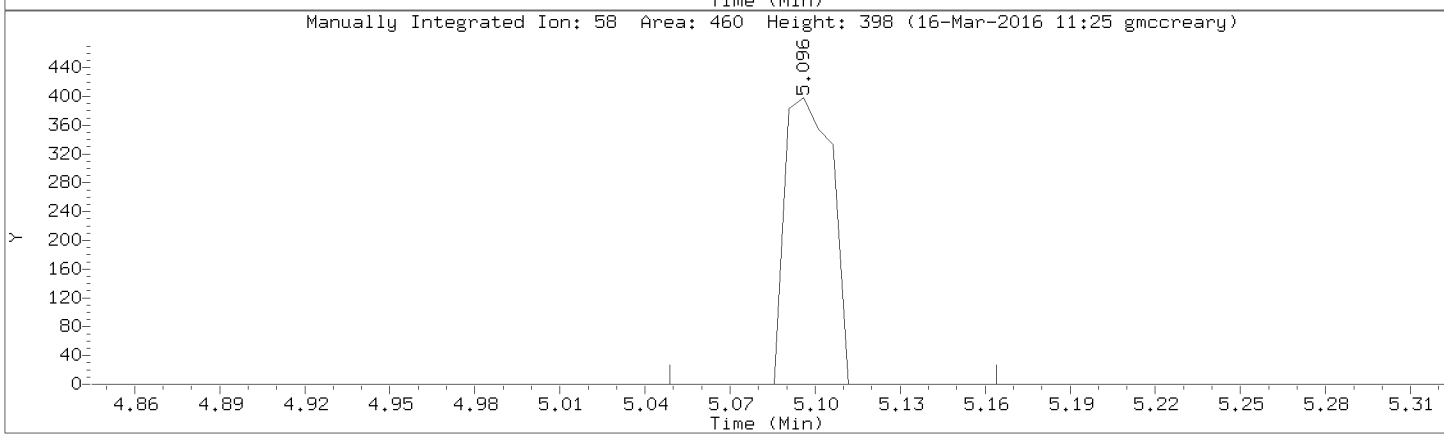
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



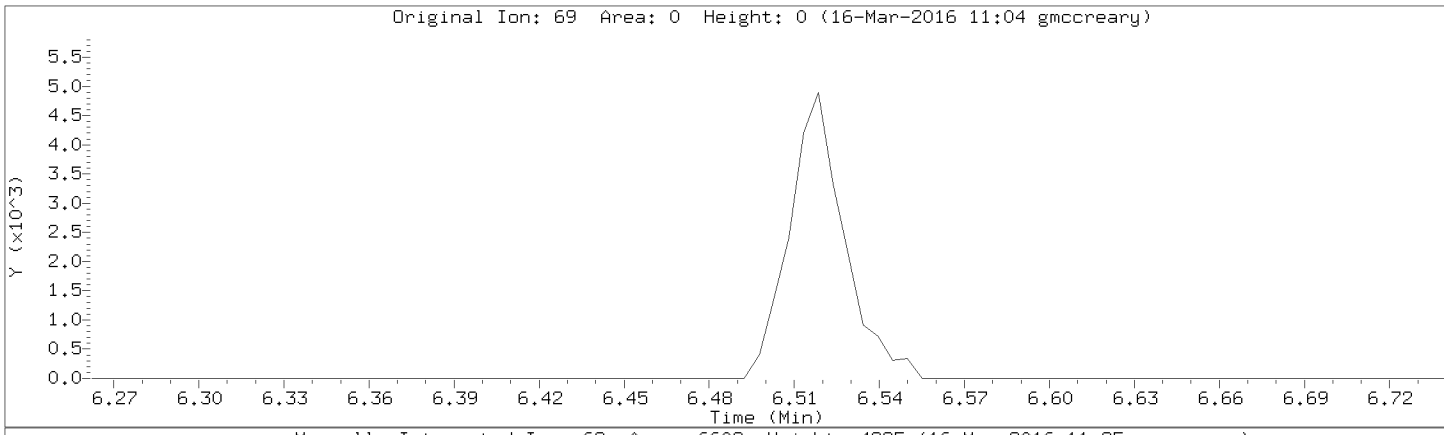


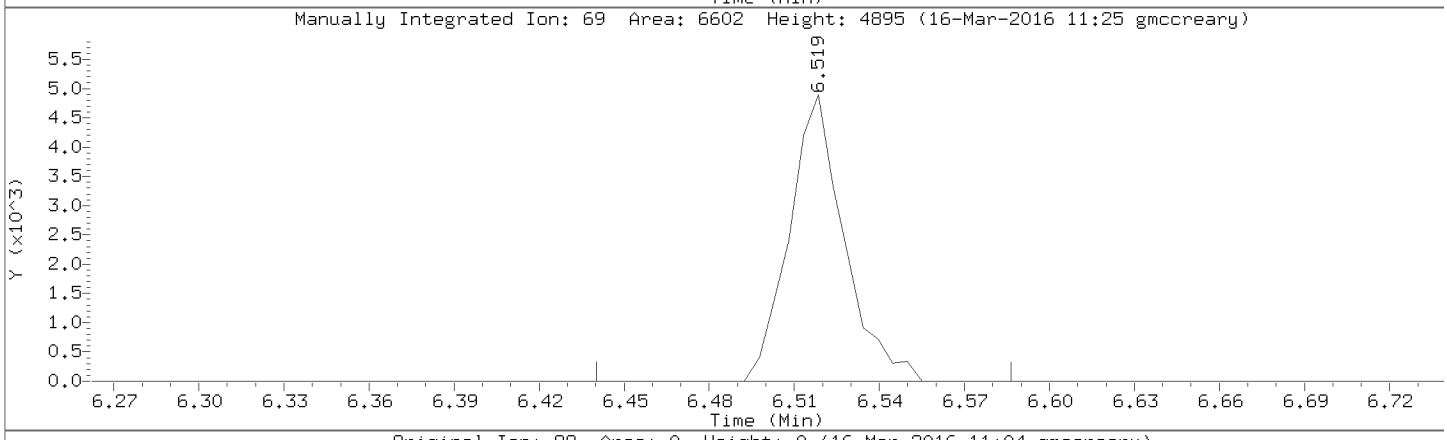


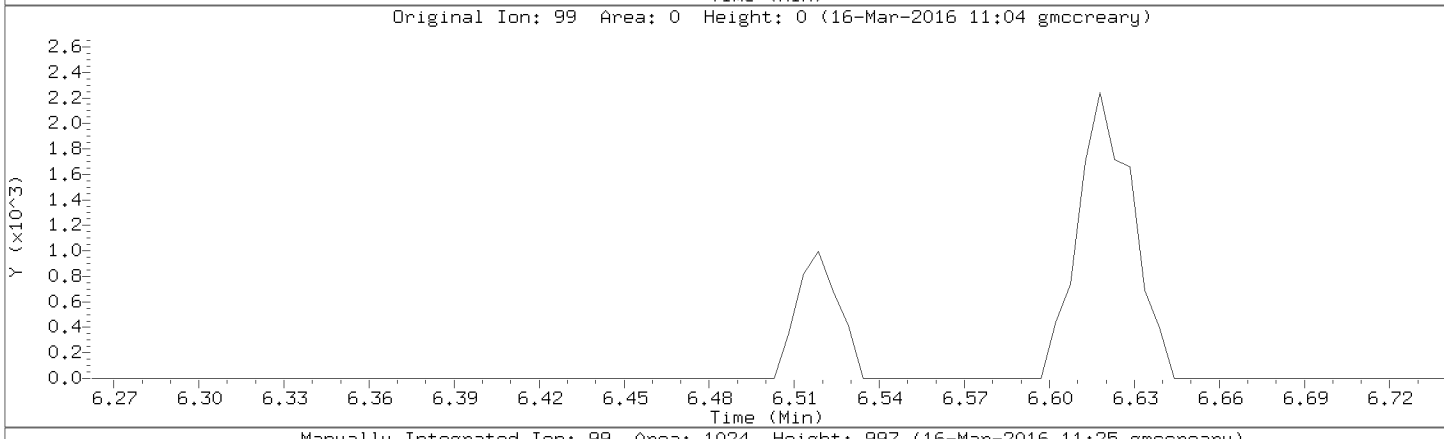


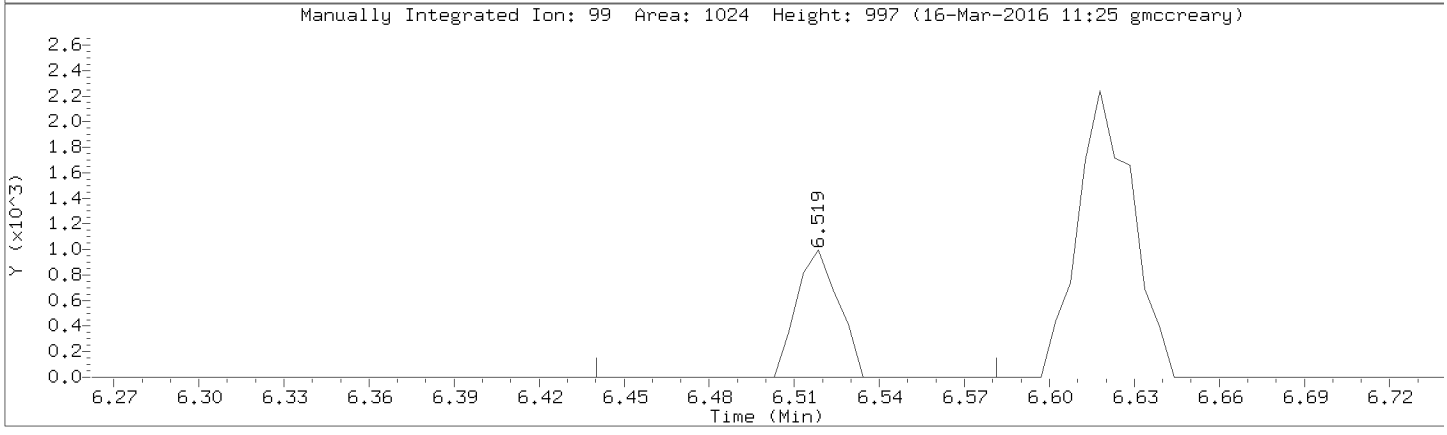
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

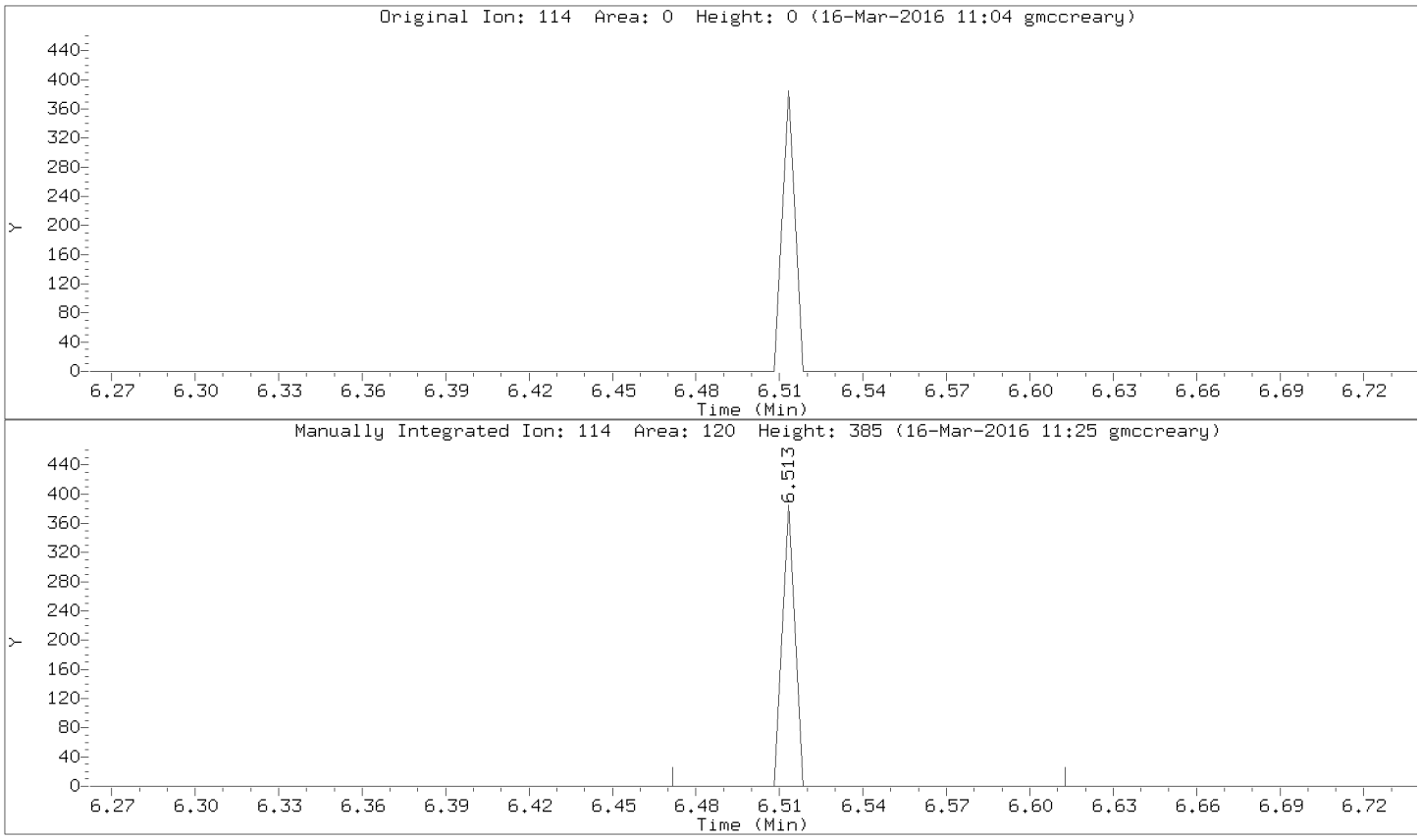








Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b03cal.d
Injection Date: 15-MAR-2016 19:11
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL3,117042:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b04cal.d
Lab Smp Id: 8260-CAL4,117043:0 Client Smp ID: 8260-CAL4,117043:0
Inj Date : 15-MAR-2016 19:46
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal4,117043:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.934	0.931	(0.221)	21962	10.0000	9.53	
2	Chloromethane	50	1.017	1.015	(0.241)	32720	10.0000	9.49	
3	Vinyl Chloride	62	1.059	1.062	(0.251)	25629	10.0000	9.68	
4	Bromomethane	94	1.211	1.208	(0.286)	9097	10.0000	8.73	
5	Chloroethane	64	1.253	1.255	(0.296)	13796	10.0000	10.0	
6	Trichlorofluoromethane	101	1.368	1.371	(0.324)	27300	10.0000	9.86	
7	Diethyl ether	74	1.499	1.496	(0.354)	6863	10.0000	9.94	
8	1,2-dichlorotrifluoroethane	67	1.514	1.512	(0.358)	19024	10.0000	9.57	
9	Acrolein	56	1.572	1.575	(0.372)	30490	200.000	198	
10	1,1,2trichlorotrifluoroethane	101	1.619	1.622	(0.383)	16640	10.0000	9.95	
11	1,1-Dichloroethene	96	1.629	1.627	(0.385)	12817	10.0000	9.60	
12	Acetone	43	1.640	1.642	(0.388)	17941	50.0000	52.0	
13	Iodomethane	142	1.718	1.716	(0.406)	26096	20.0000	17.6	
14	Carbon Disulfide	76	1.765	1.763	(0.418)	47443	10.0000	9.95	
15	Methyl Acetate	43	1.812	1.810	(0.429)	9475	10.0000	9.90	
16	Acetonitrile	39	1.823	1.826	(0.431)	39643	10.0000	10.7	
17	allyl chloride	41	1.823	1.826	(0.431)	53579	20.0000	21.1	
18	Methylene Chloride	84	1.907	1.904	(0.451)	16064	10.0000	9.75	
19	tert-Butyl Alcohol	59	1.954	1.946	(0.462)	2119	20.0000	17.0(Q)	
20	Acrylonitrile	53	2.042	2.045	(0.483)	16640	40.0000	42.1	
21	Methyl-tert-butyl ether	73	2.063	2.066	(0.488)	36335	10.0000	9.90	
22	1,2-Dichloroethene (trans)	96	2.079	2.077	(0.492)	14836	10.0000	9.74	
24	n-Hexane	57	2.262	2.260	(0.535)	24635	10.0000	9.20	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.377	2.375	(0.562)	100842	40.0000	38.9	
	26 1,1-Dichloroethane	63	2.388	2.385	(0.565)	29772	10.0000	10.1	
	27 Chloroprene	53	2.445	2.443	(0.578)	27227	10.0000	9.61	
	28 2-Butanone	43	2.858	2.856	(0.676)	23617	50.0000	44.8	
	29 1,2-Dichloroethene (cis)	96	2.869	2.872	(0.678)	15472	10.0000	9.76	
	30 2,2-Dichloropropane	77	2.874	2.872	(0.680)	21820	10.0000	9.36	
	31 Propionitrile	54	2.926	2.919	(0.692)	1223	10.0000	11.0(TQM)	WP
	32 Methacrylonitrile	41	3.068	3.065	(0.725)	7235	10.0000	10.0	
	33 Bromochloromethane	49	3.104	3.107	(0.734)	12240	10.0000	10.4	
	34 Tetrahydrofuran	42	3.130	3.128	(0.740)	3765	10.0000	10.2	
	35 Chloroform	83	3.219	3.217	(0.761)	28035	10.0000	9.88	
	37 1,1,1-Trichloroethane	97	3.392	3.395	(0.802)	24533	10.0000	9.58	
$	38 Dibromofluoromethane (S)	113	3.397	3.395	(0.803)	77392	50.0000	51.6	
	39 Cyclohexane	56	3.470	3.473	(0.821)	28379	10.0000	9.62	
	150 n-butyl chloride	56	3.544	3.546	(0.838)	33775	10.0000	9.46(M)	LT
	40 Carbon Tetrachloride	117	3.575	3.578	(0.845)	20120	10.0000	9.48	
	41 1,1-Dichloropropene	75	3.591	3.588	(0.849)	20923	10.0000	9.74	
	42 Benzene	78	3.831	3.834	(0.906)	57235	10.0000	9.76	
	43 1,2-Dichloroethane	62	3.920	3.923	(0.927)	19805	10.0000	9.79	
	45 2,2,4-Trimethylpentane	57	3.999	4.001	(0.946)	58302	10.0000	9.11	
	44 Isobutyl alcohol	43	3.999	3.996	(0.946)	11326	10.0000	9.10	
*	46 Fluorobenzene (IS)	96	4.229	4.231	(1.000)	288533	50.0000		
	47 Trichloroethene	95	4.678	4.676	(1.106)	16122	10.0000	10.4	
	48 Methylcyclohexane	55	4.940	4.943	(1.168)	21336	10.0000	9.14	
	49 1,2-Dichloropropane	63	4.982	4.990	(1.178)	14725	10.0000	9.69	
	50 Dibromomethane	93	5.081	5.084	(1.202)	8601	10.0000	10.6	
	51 1,4-Dioxane	88	5.097	5.094	(1.205)	1763	200.000	221(Q)	
	52 Methyl methacrylate	69	5.102	5.100	(1.207)	6961	10.0000	9.51	
	53 Bromodichloromethane	83	5.311	5.309	(1.256)	20068	10.0000	10.0	
	54 2-Chloroethyl vinyl ether	63	5.662	5.659	(0.766)	13088	20.0000	18.3	
	55 cis-1,3-Dichloropropene	75	5.803	5.800	(0.785)	20290	10.0000	9.04	
	56 4-Methyl-2-Pentanone	43	5.976	5.978	(0.808)	50969	50.0000	46.4	
$	57 Toluene-d8	98	6.075	6.078	(0.822)	277445	50.0000	50.2	
	58 Toluene	91	6.148	6.151	(0.832)	64248	10.0000	9.49	
	59 trans-1,3-Dichloropropene	75	6.436	6.433	(0.871)	16660	10.0000	9.02	
	60 Ethyl Methacrylate	69	6.514	6.512	(0.881)	13823	10.0000	9.14	
	61 1,1,2-Trichloroethane	83	6.614	6.622	(0.895)	9366	10.0000	9.93	
	62 Tetrachloroethene	166	6.666	6.663	(0.902)	17678	10.0000	9.59	
	63 1,3-Dichloropropane	76	6.760	6.758	(0.914)	17871	10.0000	9.70	
	64 2-Hexanone	43	6.828	6.826	(0.924)	37035	50.0000	47.3	
	65 Dibromochloromethane	129	6.943	6.941	(0.939)	12960	10.0000	9.49	
	66 1,2-Dibromoethane	107	7.027	7.024	(0.950)	10597	10.0000	9.42	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.390	(1.000)	212650	50.0000		
	68 Chlorobenzene	112	7.414	7.411	(1.003)	42238	10.0000	9.69	
	69 1,1,1,2-Tetrachloroethane	131	7.492	7.490	(1.013)	13948	10.0000	9.72	
	70 Ethylbenzene	106	7.492	7.495	(1.013)	24076	10.0000	10.1	
	71 m&p-Xylene	106	7.592	7.589	(1.027)	59314	20.0000	19.8	
	72 o-Xylene	106	7.853	7.851	(1.062)	29928	10.0000	10.2	
	73 Styrene	104	7.869	7.866	(1.064)	48184	10.0000	9.92	
	74 Bromoform	173	7.989	7.992	(0.899)	8525	10.0000	9.22	
	75 Isopropylbenzene	105	8.094	8.096	(1.095)	76726	10.0000	9.28	
$	76 4-Bromofluorobenzene	95	8.209	8.206	(1.110)	99545	50.0000	51.6	
	77 Bromobenzene	77	8.287	8.285	(1.121)	28268	10.0000	10.2	
	79 1,1,2,2-Tetrachloroethane	83	8.298	8.300	(0.934)	14033	10.0000	10.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.319	8.316	(1.125)	3736	10.0000	9.16	
81	1,2,3-Trichloropropane	110	8.329	8.332	(0.938)	3985	10.0000	10.3(Q)	
82	n-Propylbenzene	91	8.350	8.353	(0.940)	92496	10.0000	9.87	
83	2-Chlorotoluene	91	8.402	8.405	(0.946)	55750	10.0000	10.4	
84	1,3,5-Trimethylbenzene	105	8.460	8.463	(0.952)	62606	10.0000	9.82	
85	4-Chlorotoluene	126	8.476	8.478	(0.954)	20097	10.0000	10.5	
86	tert-Butylbenzene	119	8.643	8.646	(0.973)	60130	10.0000	9.81	
87	1,2,4-Trimethylbenzene	105	8.674	8.677	(0.976)	65979	10.0000	9.95	
88	sec-Butylbenzene	105	8.768	8.766	(0.987)	86612	10.0000	10.1	
89	1,3-Dichlorobenzene	146	8.842	8.839	(0.995)	40090	10.0000	10.1	
90	p-Isopropyltoluene	119	8.857	8.855	(0.997)	72021	10.0000	9.52	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.886	(1.000)	114816	50.0000		
92	1,4-Dichlorobenzene	146	8.899	8.897	(1.002)	40001	10.0000	10.1	
93	n-Butylbenzene	91	9.077	9.075	(1.022)	67528	10.0000	9.87	
94	1,2-Dichlorobenzene	146	9.093	9.090	(1.024)	35890	10.0000	10.3	
95	1,2-Dibromo-3-chloropropane	155	9.516	9.509	(1.071)	2223	10.0000	10.1	
96	1,2,4-Trichlorobenzene	180	9.935	9.922	(1.118)	30158	10.0000	10.1	
97	Hexachlorobutadiene	225	9.998	9.985	(1.125)	20479	10.0000	9.84	
98	Naphthalene	128	10.081	10.063	(1.135)	57021	10.0000	9.72	
99	1,2,3-Trichlorobenzene	180	10.196	10.178	(1.148)	28105	10.0000	9.78	
100	2,methyl-naphthalene	142	10.725	10.706	(1.207)	35448	10.0000	9.01	
101	1-methylnaphthalene	142	10.845	10.821	(1.221)	33053	10.0000	9.30	

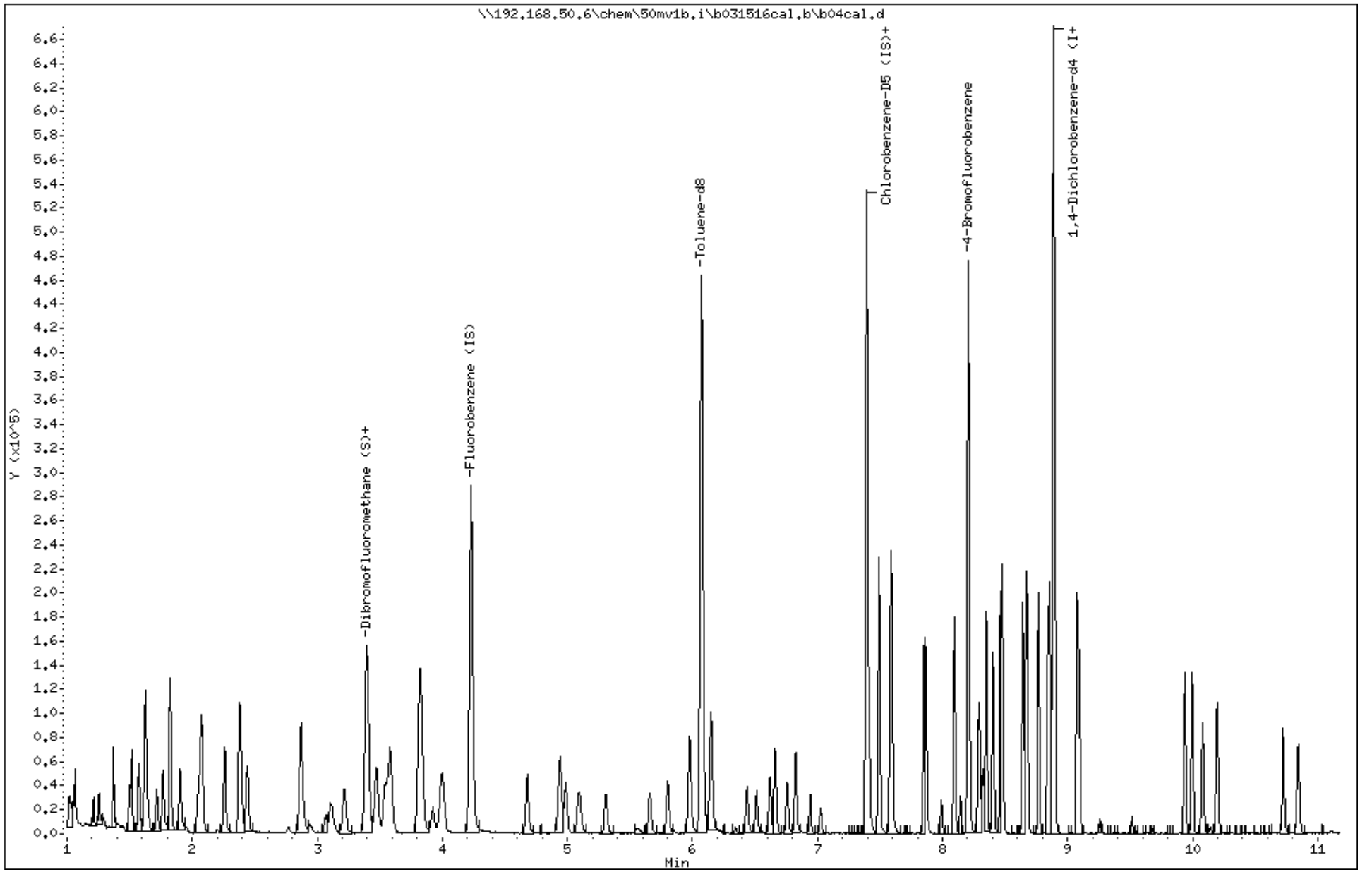
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

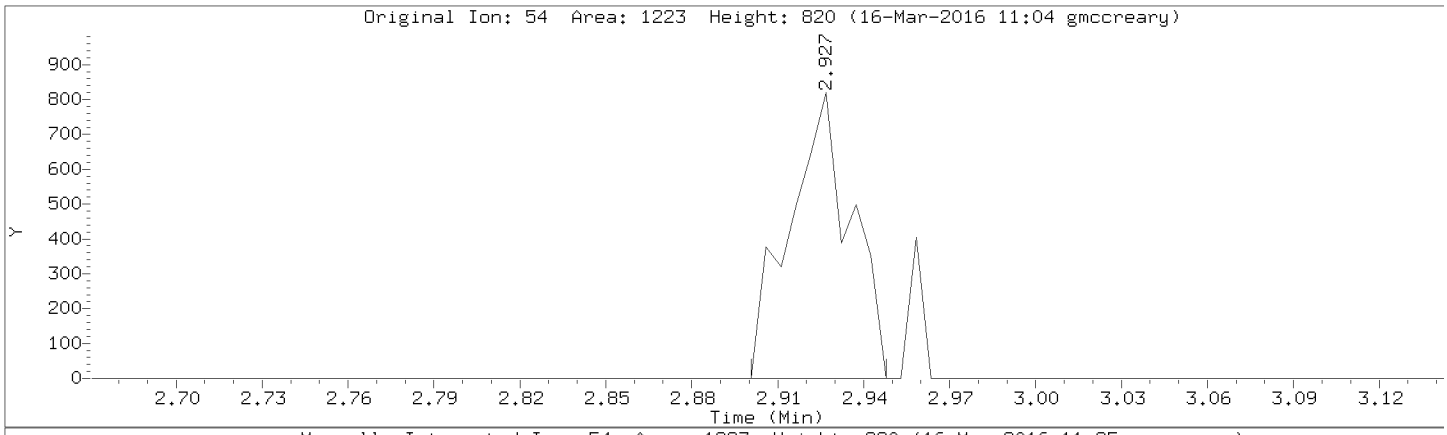
:
WP: Indicates that the wrong peak was chosen by the data system.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

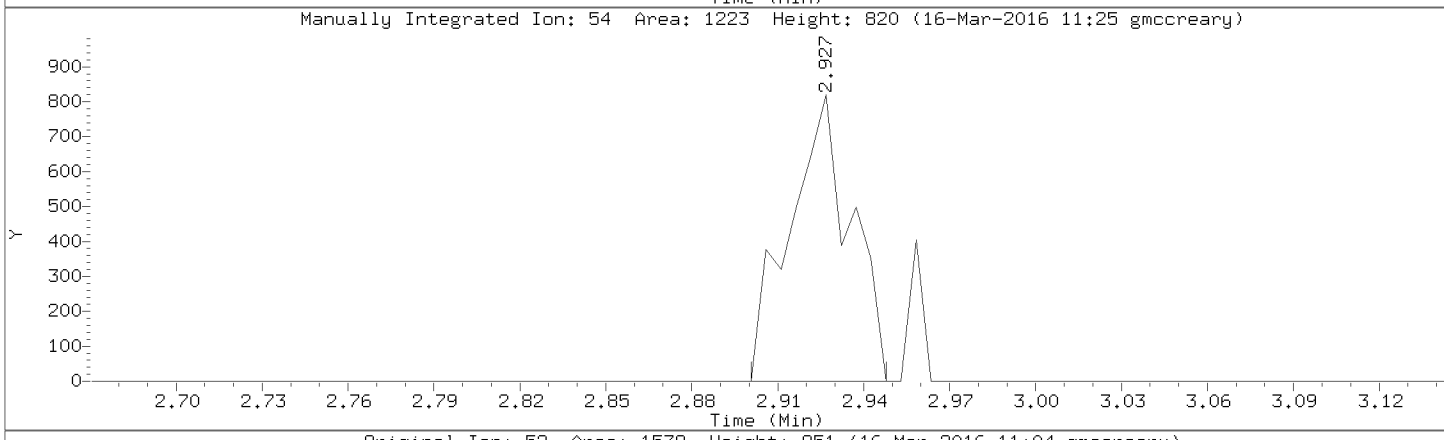
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b04cal.d
Date : 15-MAR-2016 19:46
Client ID: 8260-CAL4,117043:0
Instrument: 50mv1b.i
Sample Info: 8260-CAL4,117043:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

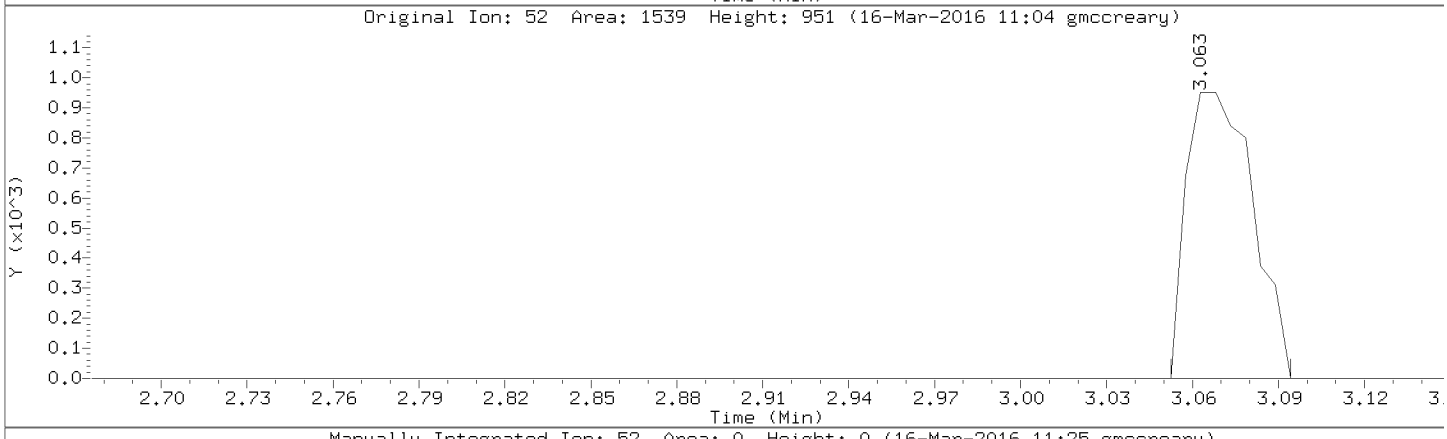


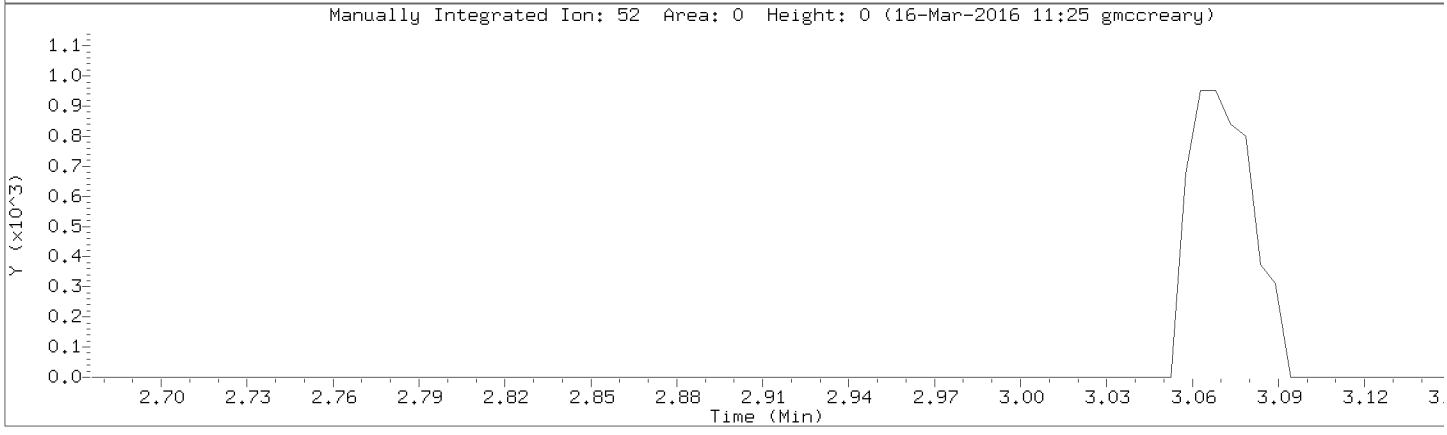
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b04cal.d
Injection Date: 15-MAR-2016 19:46
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL4,117043:0

Compound: Propionitrile Review Code: WP
CAS Number: 107-12-0

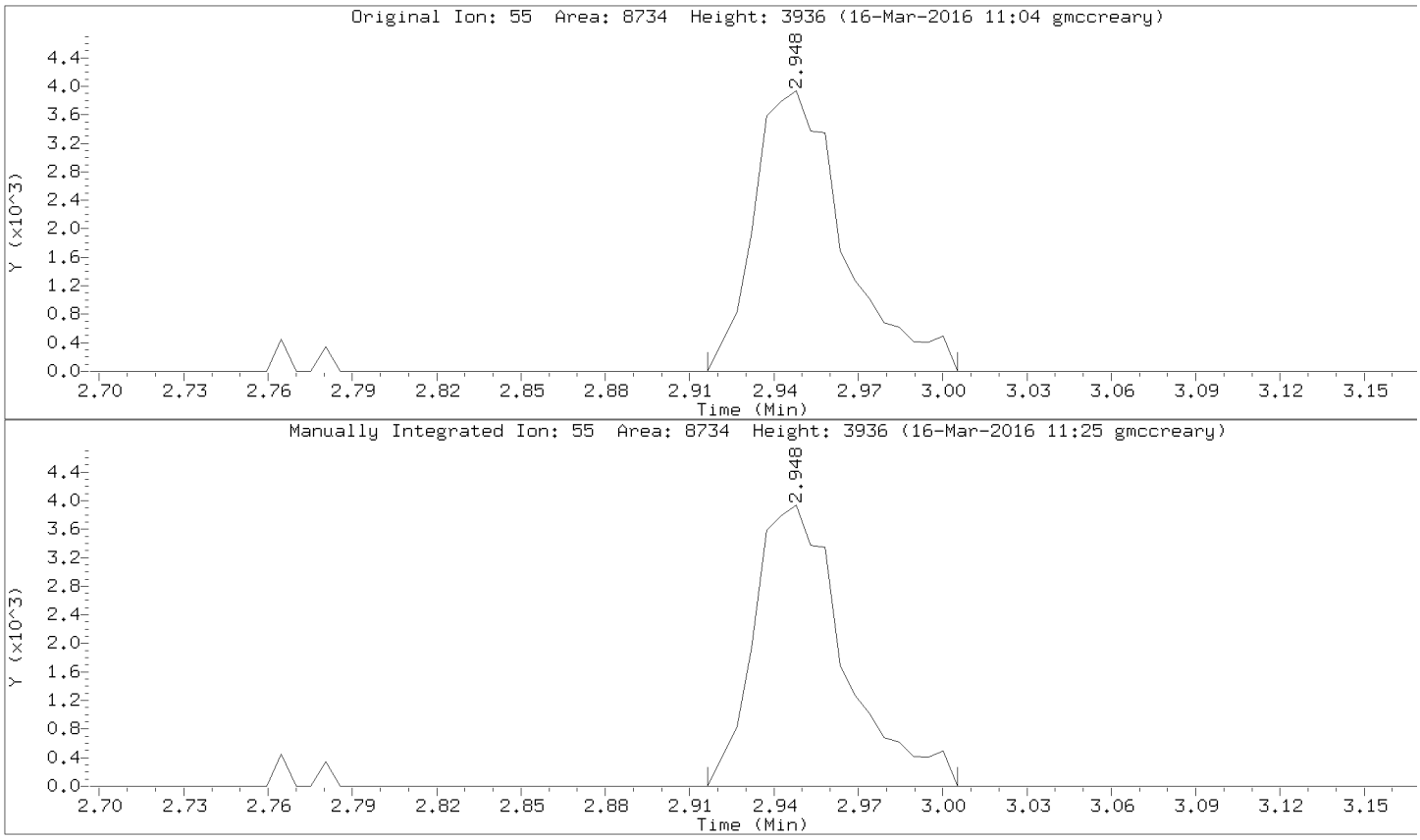






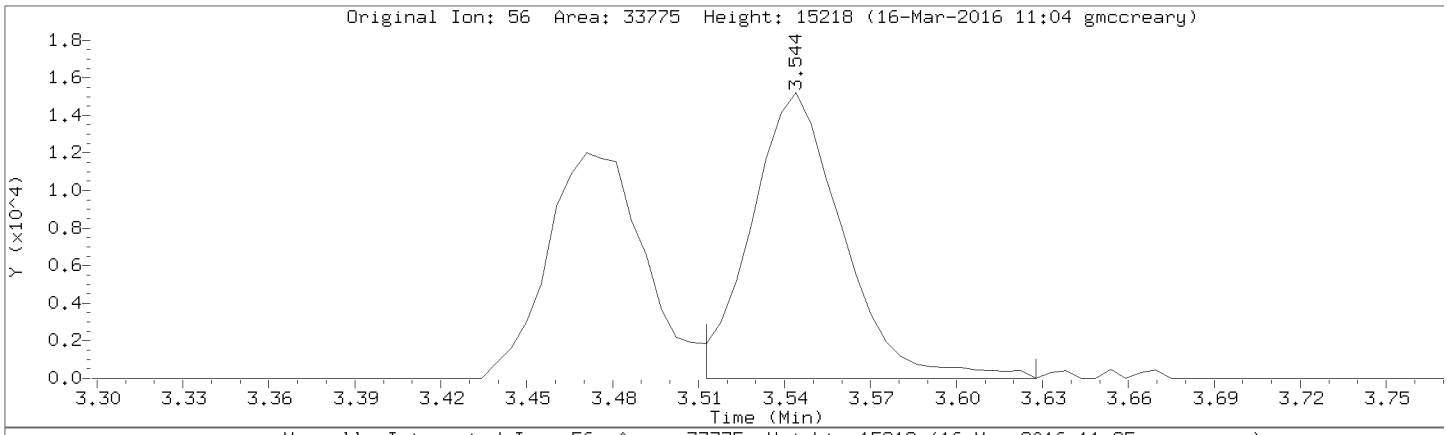


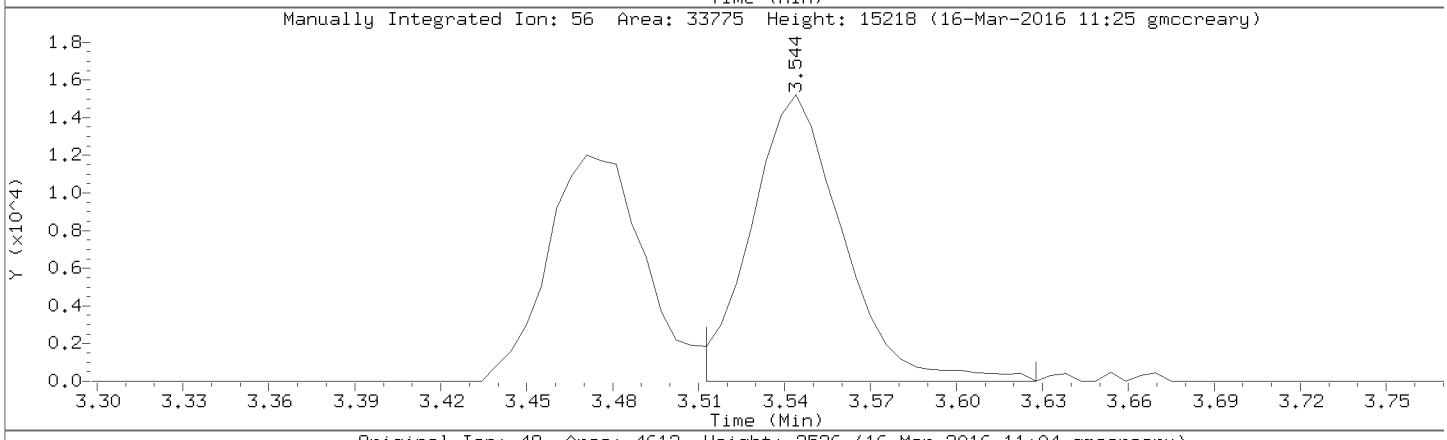
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b04cal.d
Injection Date: 15-MAR-2016 19:46
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL4,117043:0

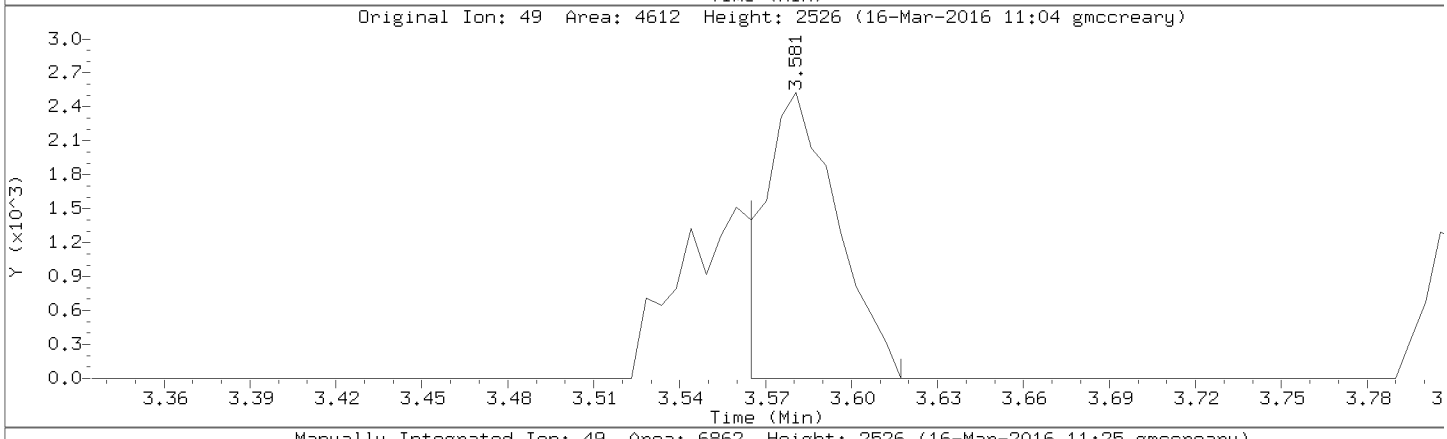


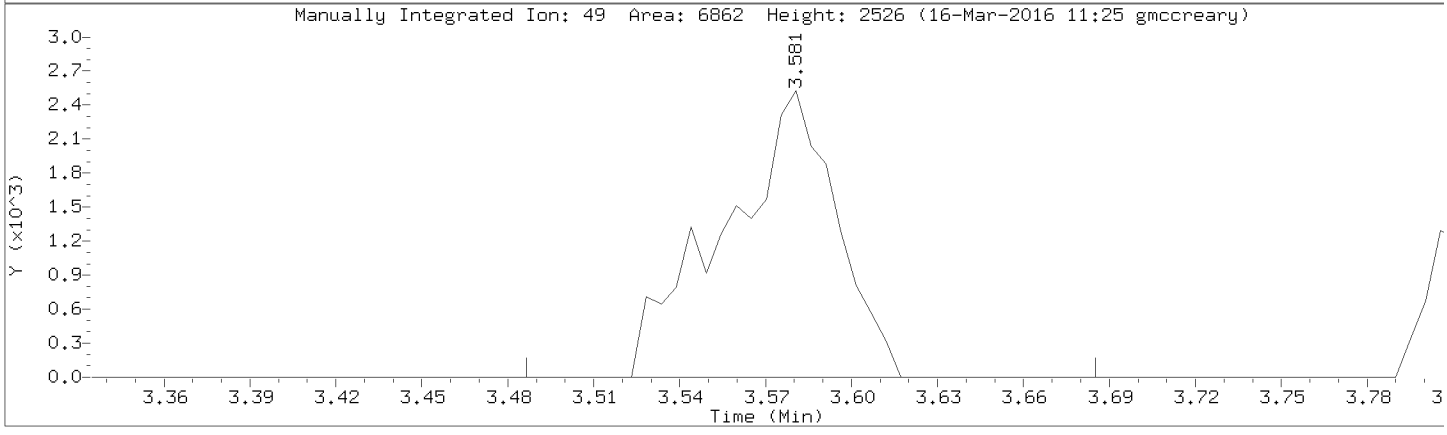
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b04cal.d
Injection Date: 15-MAR-2016 19:46
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL4,117043:0

Compound: n-butyl chloride Review Code: LT
CAS Number: 109-69-3









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b05cal.d
Lab Smp Id: 8260-CAL5,117044:0 Client Smp ID: 8260-CAL5,117044:0
Inj Date : 15-MAR-2016 20:21
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal5,117044:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.931	0.931	(0.220)	44261	20.0000	18.6	
2	Chloromethane	50	1.015	1.015	(0.240)	63841	20.0000	17.9	
3	Vinyl Chloride	62	1.062	1.062	(0.251)	52634	20.0000	19.2	
4	Bromomethane	94	1.208	1.208	(0.286)	20576	20.0000	19.1	
5	Chloroethane	64	1.256	1.255	(0.297)	28351	20.0000	19.9	
6	Trichlorofluoromethane	101	1.371	1.371	(0.324)	54441	20.0000	19.0	
7	Diethyl ether	74	1.496	1.496	(0.354)	13423	20.0000	18.8	
8	1,2-dichlorotrifluoroethane	67	1.512	1.512	(0.357)	37994	20.0000	18.5	
9	Acrolein	56	1.575	1.575	(0.372)	64287	400.000	404	
10	1,1,2trichlorotrifluoroethane	101	1.622	1.622	(0.383)	32386	20.0000	18.7	
11	1,1-Dichloroethene	96	1.627	1.627	(0.385)	26234	20.0000	19.0	
12	Acetone	43	1.643	1.642	(0.388)	32783	100.000	92.0	
13	Iodomethane	142	1.716	1.716	(0.406)	58991	40.0000	38.3	
14	Carbon Disulfide	76	1.763	1.763	(0.417)	91671	20.0000	18.6	
15	Methyl Acetate	43	1.810	1.810	(0.428)	20645	20.0000	20.8	
16	Acetonitrile	39	1.826	1.826	(0.431)	79785	20.0000	20.9	
17	allyl chloride	41	1.826	1.826	(0.431)	108920	40.0000	41.5	
18	Methylene Chloride	84	1.904	1.904	(0.450)	31836	20.0000	18.7	
19	tert-Butyl Alcohol	59	1.946	1.946	(0.460)	4372	40.0000	33.8(Q)	
20	Acrylonitrile	53	2.045	2.045	(0.483)	33395	80.0000	81.7	
21	Methyl-tert-butyl ether	73	2.066	2.066	(0.488)	72810	20.0000	19.2	
22	1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	29780	20.0000	18.9	
24	n-Hexane	57	2.260	2.260	(0.534)	47652	20.0000	17.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.375	2.375	(0.561)	212683	80.0000	79.3	
	26 1,1-Dichloroethane	63	2.385	2.385	(0.564)	59228	20.0000	19.4	
	27 Chloroprene	53	2.443	2.443	(0.577)	55523	20.0000	19.0	
	28 2-Butanone	43	2.856	2.856	(0.675)	62867	100.000	116	
	29 1,2-Dichloroethene (cis)	96	2.866	2.872	(0.677)	33037	20.0000	20.1	
	30 2,2-Dichloropropane	77	2.872	2.872	(0.679)	45399	20.0000	18.8	
	31 Propionitrile	54	2.919	2.919	(0.690)	2473	20.0000	17.5(T)	
	32 Methacrylonitrile	41	3.065	3.065	(0.724)	14039	20.0000	18.8	
	33 Bromochloromethane	49	3.107	3.107	(0.734)	25696	20.0000	21.2	
	34 Tetrahydrofuran	42	3.123	3.128	(0.738)	7189	20.0000	18.8	
	35 Chloroform	83	3.217	3.217	(0.760)	56072	20.0000	19.1	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	49503	20.0000	18.7	
$	38 Dibromofluoromethane (S)	113	3.400	3.395	(0.803)	76991	50.0000	49.7	
	39 Cyclohexane	56	3.473	3.473	(0.821)	56327	20.0000	18.5	
	150 n-butyl chloride	56	3.541	3.546	(0.837)	71307	20.0000	19.3	
	40 Carbon Tetrachloride	117	3.578	3.578	(0.846)	41207	20.0000	18.8	
	41 1,1-Dichloropropene	75	3.583	3.588	(0.847)	41271	20.0000	18.6	
	42 Benzene	78	3.834	3.834	(0.906)	117599	20.0000	19.4	
	43 1,2-Dichloroethane	62	3.923	3.923	(0.927)	40518	20.0000	19.4	
	45 2,2,4-Trimethylpentane	57	3.996	4.001	(0.944)	115603	20.0000	17.5	
	44 Isobutyl alcohol	43	4.001	3.996	(0.946)	22783	20.0000	17.7	
*	46 Fluorobenzene (IS)	96	4.231	4.231	(1.000)	298289	50.0000		
	47 Trichloroethene	95	4.676	4.676	(1.105)	31287	20.0000	19.6	
	48 Methylcyclohexane	55	4.938	4.943	(1.167)	44628	20.0000	18.5	
	49 1,2-Dichloropropane	63	4.985	4.990	(1.178)	29799	20.0000	19.0	
	50 Dibromomethane	93	5.084	5.084	(1.201)	16354	20.0000	19.4	
	51 1,4-Dioxane	88	5.094	5.094	(1.204)	4126	400.000	390	
	52 Methyl methacrylate	69	5.100	5.100	(1.205)	14700	20.0000	19.4	
	53 Bromodichloromethane	83	5.309	5.309	(1.255)	39183	20.0000	19.0	
	54 2-Chloroethyl vinyl ether	63	5.659	5.659	(0.766)	28071	40.0000	39.2	
	55 cis-1,3-Dichloropropene	75	5.801	5.800	(0.785)	44126	20.0000	19.6	
	56 4-Methyl-2-Pentanone	43	5.978	5.978	(0.809)	100678	100.000	91.4	
$	57 Toluene-d8	98	6.073	6.078	(0.822)	278304	50.0000	50.3	
	58 Toluene	91	6.151	6.151	(0.832)	126867	20.0000	18.7	
	59 trans-1,3-Dichloropropene	75	6.433	6.433	(0.871)	34392	20.0000	18.6	
	60 Ethyl Methacrylate	69	6.512	6.512	(0.881)	28162	20.0000	18.6	
	61 1,1,2-Trichloroethane	83	6.616	6.622	(0.895)	18520	20.0000	19.6	
	62 Tetrachloroethene	166	6.664	6.663	(0.902)	35590	20.0000	19.3	
	63 1,3-Dichloropropane	76	6.758	6.758	(0.914)	36899	20.0000	20.0	
	64 2-Hexanone	43	6.826	6.826	(0.924)	72460	100.000	92.5	
	65 Dibromochloromethane	129	6.941	6.941	(0.939)	26146	20.0000	19.1	
	66 1,2-Dibromoethane	107	7.024	7.024	(0.950)	21413	20.0000	19.0	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	212935	50.0000		
	68 Chlorobenzene	112	7.411	7.411	(1.003)	83325	20.0000	19.1	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.490	(1.013)	27440	20.0000	19.1	
	70 Ethylbenzene	106	7.495	7.495	(1.014)	45599	20.0000	19.0	
	71 m&p-Xylene	106	7.589	7.589	(1.027)	116292	40.0000	38.8	
	72 o-Xylene	106	7.851	7.851	(1.062)	57040	20.0000	19.4	
	73 Styrene	104	7.866	7.866	(1.064)	97255	20.0000	20.0	
	74 Bromoform	173	7.987	7.992	(0.899)	16914	20.0000	18.4	
	75 Isopropylbenzene	105	8.097	8.096	(1.096)	153323	20.0000	18.5	
$	76 4-Bromofluorobenzene	95	8.206	8.206	(1.110)	98639	50.0000	51.0	
	77 Bromobenzene	77	8.285	8.285	(1.121)	52847	20.0000	19.1	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.300	(0.934)	26027	20.0000	19.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.321	8.316	(1.126)	7554	20.0000	18.5	
81	1,2,3-Trichloropropane	110	8.327	8.332	(0.937)	7664	20.0000	19.9	
82	n-Propylbenzene	91	8.353	8.353	(0.940)	183990	20.0000	19.7	
83	2-Chlorotoluene	91	8.405	8.405	(0.946)	105211	20.0000	19.7	
84	1,3,5-Trimethylbenzene	105	8.463	8.463	(0.952)	121103	20.0000	19.1	
85	4-Chlorotoluene	126	8.478	8.478	(0.954)	37910	20.0000	20.0	
86	tert-Butylbenzene	119	8.646	8.646	(0.973)	121679	20.0000	20.0	
87	1,2,4-Trimethylbenzene	105	8.677	8.677	(0.976)	126717	20.0000	19.2	
88	sec-Butylbenzene	105	8.771	8.766	(0.987)	168539	20.0000	19.8	
89	1,3-Dichlorobenzene	146	8.839	8.839	(0.995)	74936	20.0000	19.1	
90	p-Isopropyltoluene	119	8.855	8.855	(0.996)	143522	20.0000	19.1	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.886	(1.000)	114171	50.0000		
92	1,4-Dichlorobenzene	146	8.902	8.897	(1.002)	75186	20.0000	19.1	
93	n-Butylbenzene	91	9.080	9.075	(1.022)	130761	20.0000	19.2	
94	1,2-Dichlorobenzene	146	9.096	9.090	(1.024)	68915	20.0000	19.9	
95	1,2-Dibromo-3-chloropropane	155	9.514	9.509	(1.071)	4565	20.0000	20.8	
96	1,2,4-Trichlorobenzene	180	9.932	9.922	(1.118)	54338	20.0000	18.2	
97	Hexachlorobutadiene	225	10.000	9.985	(1.125)	39787	20.0000	19.2	
98	Naphthalene	128	10.079	10.063	(1.134)	103471	20.0000	17.7	
99	1,2,3-Trichlorobenzene	180	10.194	10.178	(1.147)	52056	20.0000	18.2	
100	2,methyl-naphthalene	142	10.722	10.706	(1.207)	66417	20.0000	17.0	
101	1-methylnaphthalene	142	10.842	10.821	(1.220)	62789	20.0000	17.8	

QC Flag Legend

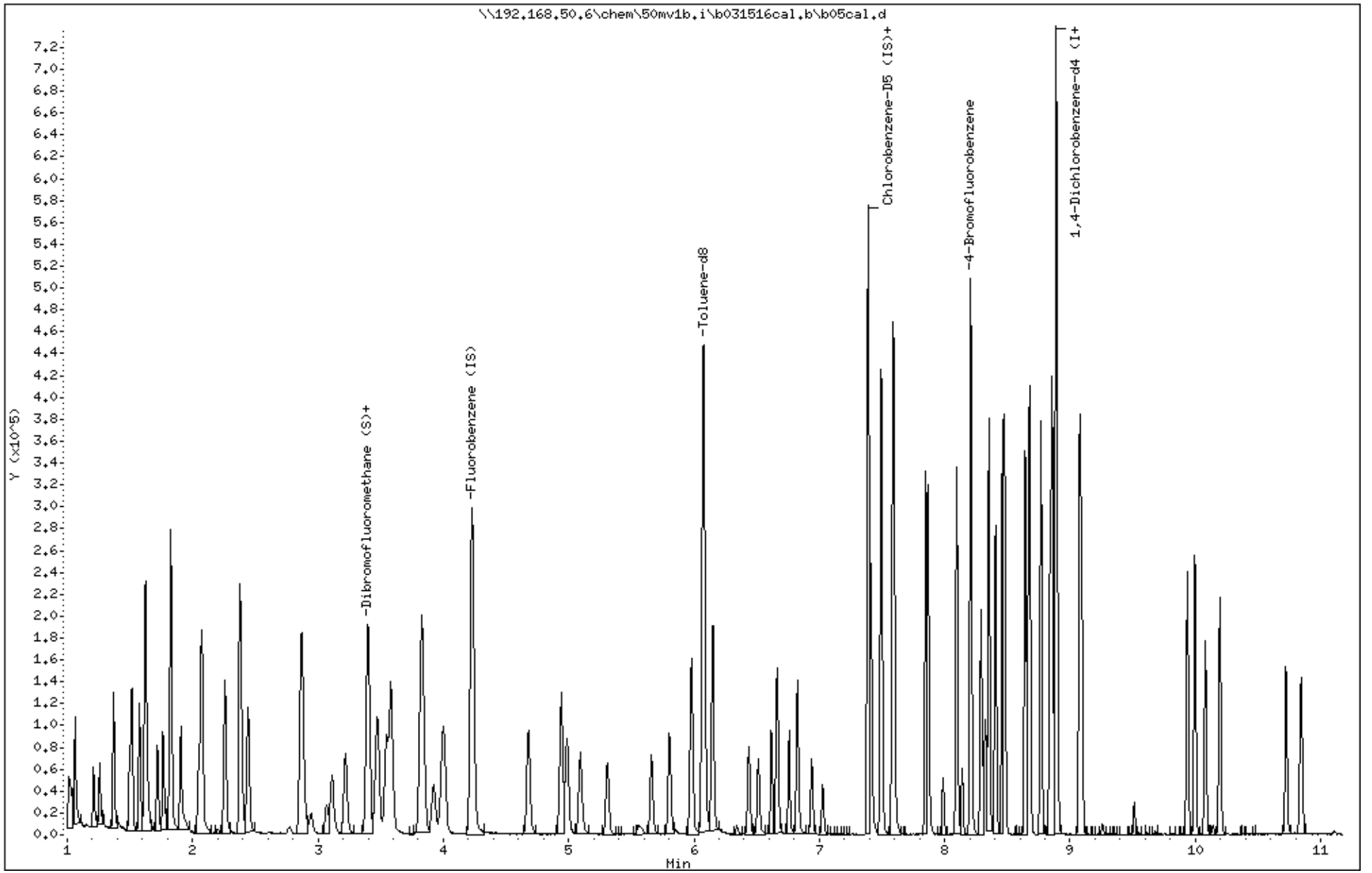
T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b05cal.d
Date : 15-MAR-2016 20:21
Client ID: 8260-CAL5,117044:0
Sample Info: 8260-CAL5,117044:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b05cal.d
Injection Date: 15-MAR-2016 20:21
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL5,117044:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b06cal.d
Lab Smp Id: 8260-CAL6,117045:0 Client Smp ID: 8260-CAL6,117045:0
Inj Date : 15-MAR-2016 20:56
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal6,117045:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.933	0.931	(0.220)	137115	50.0000	56.0	
2	Chloromethane	50	1.016	1.015	(0.240)	170755	50.0000	46.7	
3	Vinyl Chloride	62	1.063	1.062	(0.251)	151180	50.0000	53.8	
4	Bromomethane	94	1.210	1.208	(0.286)	59421	50.0000	53.7	
5	Chloroethane	64	1.257	1.255	(0.297)	77690	50.0000	53.2	
6	Trichlorofluoromethane	101	1.372	1.371	(0.324)	161414	50.0000	54.9	
7	Diethyl ether	74	1.497	1.496	(0.354)	39382	50.0000	53.7	
8	1,2-dichlorotrifluoroethane	67	1.513	1.512	(0.358)	117561	50.0000	55.7	
9	Acrolein	56	1.576	1.575	(0.372)	164483	1000.00	1000	
10	1,1,2trichlorotrifluoroethane	101	1.623	1.622	(0.383)	102161	50.0000	57.6	
11	1,1-Dichloroethene	96	1.628	1.627	(0.385)	77322	50.0000	54.5	
12	Acetone	43	1.644	1.642	(0.388)	84533	250.000	231	
13	Iodomethane	142	1.717	1.716	(0.406)	177257	100.000	112	
14	Carbon Disulfide	76	1.764	1.763	(0.417)	258003	50.0000	51.0	
15	Methyl Acetate	43	1.811	1.810	(0.428)	49540	50.0000	48.7	
16	Acetonitrile	39	1.827	1.826	(0.432)	215906	50.0000	55.1	
17	allyl chloride	41	1.827	1.826	(0.432)	299256	100.000	111	
18	Methylene Chloride	84	1.905	1.904	(0.450)	81595	50.0000	46.6	
19	tert-Butyl Alcohol	59	1.952	1.946	(0.461)	14177	100.000	107(QM)	WP
20	Acrylonitrile	53	2.041	2.045	(0.482)	91735	200.000	219	
21	Methyl-tert-butyl ether	73	2.067	2.066	(0.488)	204318	50.0000	52.5	
22	1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	85166	50.0000	52.7	
24	n-Hexane	57	2.261	2.260	(0.534)	149074	50.0000	52.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.376	2.375	(0.561)	576676	200.000	210	
	26 1,1-Dichloroethane	63	2.387	2.385	(0.564)	166934	50.0000	53.2	
	27 Chloroprene	53	2.444	2.443	(0.577)	169857	50.0000	56.4	
	28 2-Butanone	43	2.857	2.856	(0.675)	151469	250.000	271	
	29 1,2-Dichloroethene (cis)	96	2.868	2.872	(0.678)	90542	50.0000	53.8	
	30 2,2-Dichloropropane	77	2.873	2.872	(0.679)	132519	50.0000	53.5	
	31 Propionitrile	54	2.920	2.919	(0.690)	8638	50.0000	49.6(Q)	
	32 Methacrylonitrile	41	3.066	3.065	(0.724)	39902	50.0000	52.2	
	33 Bromochloromethane	49	3.108	3.107	(0.734)	65257	50.0000	52.3	
	34 Tetrahydrofuran	42	3.124	3.128	(0.738)	18695	50.0000	47.7	
	35 Chloroform	83	3.218	3.217	(0.760)	155244	50.0000	51.5	
	37 1,1,1-Trichloroethane	97	3.396	3.395	(0.802)	148430	50.0000	54.6	
$	38 Dibromofluoromethane (S)	113	3.396	3.395	(0.802)	76695	50.0000	48.2	
	39 Cyclohexane	56	3.474	3.473	(0.821)	171406	50.0000	54.7	
	150 n-butyl chloride	56	3.542	3.546	(0.837)	212830	50.0000	56.1	
	40 Carbon Tetrachloride	117	3.579	3.578	(0.846)	127233	50.0000	56.4	
	41 1,1-Dichloropropene	75	3.584	3.588	(0.847)	127504	50.0000	55.9	
	42 Benzene	78	3.835	3.834	(0.906)	336345	50.0000	54.0	
	43 1,2-Dichloroethane	62	3.924	3.923	(0.927)	110423	50.0000	51.4	
	45 2,2,4-Trimethylpentane	57	3.997	4.001	(0.944)	385367	50.0000	56.7	
	44 Isobutyl alcohol	43	3.997	3.996	(0.944)	73849	50.0000	55.9	
*	46 Fluorobenzene (IS)	96	4.233	4.231	(1.000)	306290	50.0000		
	47 Trichloroethene	95	4.677	4.676	(1.105)	92687	50.0000	56.6	
	48 Methylcyclohexane	55	4.939	4.943	(1.167)	144562	50.0000	58.3	
	49 1,2-Dichloropropane	63	4.986	4.990	(1.178)	86884	50.0000	53.9	
	50 Dibromomethane	93	5.085	5.084	(1.201)	44418	50.0000	51.4	
	51 1,4-Dioxane	88	5.091	5.094	(1.203)	11925	1000.00	943	
	52 Methyl methacrylate	69	5.101	5.100	(1.205)	43089	50.0000	55.5	
	53 Bromodichloromethane	83	5.310	5.309	(1.254)	113588	50.0000	53.5	
	54 2-Chloroethyl vinyl ether	63	5.661	5.659	(0.766)	84685	100.000	115	
	55 cis-1,3-Dichloropropene	75	5.802	5.800	(0.785)	127367	50.0000	55.4	
	56 4-Methyl-2-Pentanone	43	5.974	5.978	(0.808)	310289	250.000	275	
$	57 Toluene-d8	98	6.074	6.078	(0.822)	286214	50.0000	50.6	
	58 Toluene	91	6.147	6.151	(0.832)	359469	50.0000	51.8	
	59 trans-1,3-Dichloropropene	75	6.435	6.433	(0.871)	106598	50.0000	56.3	
	60 Ethyl Methacrylate	69	6.513	6.512	(0.881)	81260	50.0000	52.4	
	61 1,1,2-Trichloroethane	83	6.618	6.622	(0.895)	50497	50.0000	52.2	
	62 Tetrachloroethene	166	6.665	6.663	(0.902)	107675	50.0000	57.0	
	63 1,3-Dichloropropane	76	6.759	6.758	(0.914)	107131	50.0000	56.7	
	64 2-Hexanone	43	6.827	6.826	(0.924)	207189	250.000	258	
	65 Dibromochloromethane	129	6.942	6.941	(0.939)	77477	50.0000	55.3	
	66 1,2-Dibromoethane	107	7.026	7.024	(0.950)	63701	50.0000	55.2	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.390	(1.000)	218053	50.0000		
	68 Chlorobenzene	112	7.413	7.411	(1.003)	235135	50.0000	52.6	
	69 1,1,1,2-Tetrachloroethane	131	7.491	7.490	(1.013)	81800	50.0000	55.6	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	132129	50.0000	53.8	
	71 m&p-Xylene	106	7.591	7.589	(1.027)	324341	100.000	106	
	72 o-Xylene	106	7.852	7.851	(1.062)	157993	50.0000	52.5	
	73 Styrene	104	7.868	7.866	(1.064)	259806	50.0000	52.1	
	74 Bromoform	173	7.993	7.992	(0.899)	51679	50.0000	54.4	
	75 Isopropylbenzene	105	8.098	8.096	(1.096)	438076	50.0000	51.7	
$	76 4-Bromofluorobenzene	95	8.208	8.206	(1.110)	101048	50.0000	51.0	
	77 Bromobenzene	77	8.286	8.285	(1.121)	143444	50.0000	50.5	
	79 1,1,2,2-Tetrachloroethane	83	8.302	8.300	(0.934)	74032	50.0000	52.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.318	8.316	(1.125)	22626	50.0000	54.1	
81	1,2,3-Trichloropropane	110	8.328	8.332	(0.937)	22451	50.0000	56.3	
82	n-Propylbenzene	91	8.354	8.353	(0.940)	531996	50.0000	55.2	
83	2-Chlorotoluene	91	8.406	8.405	(0.946)	293448	50.0000	53.3	
84	1,3,5-Trimethylbenzene	105	8.464	8.463	(0.952)	350352	50.0000	53.5	
85	4-Chlorotoluene	126	8.480	8.478	(0.954)	105970	50.0000	54.1	
86	tert-Butylbenzene	119	8.642	8.646	(0.972)	356565	50.0000	56.6	
87	1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	354419	50.0000	52.0	
88	sec-Butylbenzene	105	8.767	8.766	(0.986)	502353	50.0000	57.0	
89	1,3-Dichlorobenzene	146	8.841	8.839	(0.995)	201247	50.0000	49.5	
90	p-Isopropyltoluene	119	8.856	8.855	(0.996)	413539	50.0000	53.1	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.888	8.886	(1.000)	118035	50.0000		
92	1,4-Dichlorobenzene	146	8.898	8.897	(1.001)	203531	50.0000	49.9	
93	n-Butylbenzene	91	9.076	9.075	(1.021)	386742	50.0000	55.0	
94	1,2-Dichlorobenzene	146	9.092	9.090	(1.023)	191632	50.0000	53.6	
95	1,2-Dibromo-3-chloropropane	155	9.510	9.509	(1.070)	12582	50.0000	55.5	
96	1,2,4-Trichlorobenzene	180	9.928	9.922	(1.117)	150501	50.0000	48.9	
97	Hexachlorobutadiene	225	9.991	9.985	(1.124)	116124	50.0000	54.2	
98	Naphthalene	128	10.070	10.063	(1.133)	291754	50.0000	48.4	
99	1,2,3-Trichlorobenzene	180	10.185	10.178	(1.146)	142433	50.0000	48.2	
100	2,methyl-naphthalene	142	10.713	10.706	(1.205)	189298	50.0000	46.8	
101	1-methylnaphthalene	142	10.833	10.821	(1.219)	179316	50.0000	49.1	

QC Flag Legend

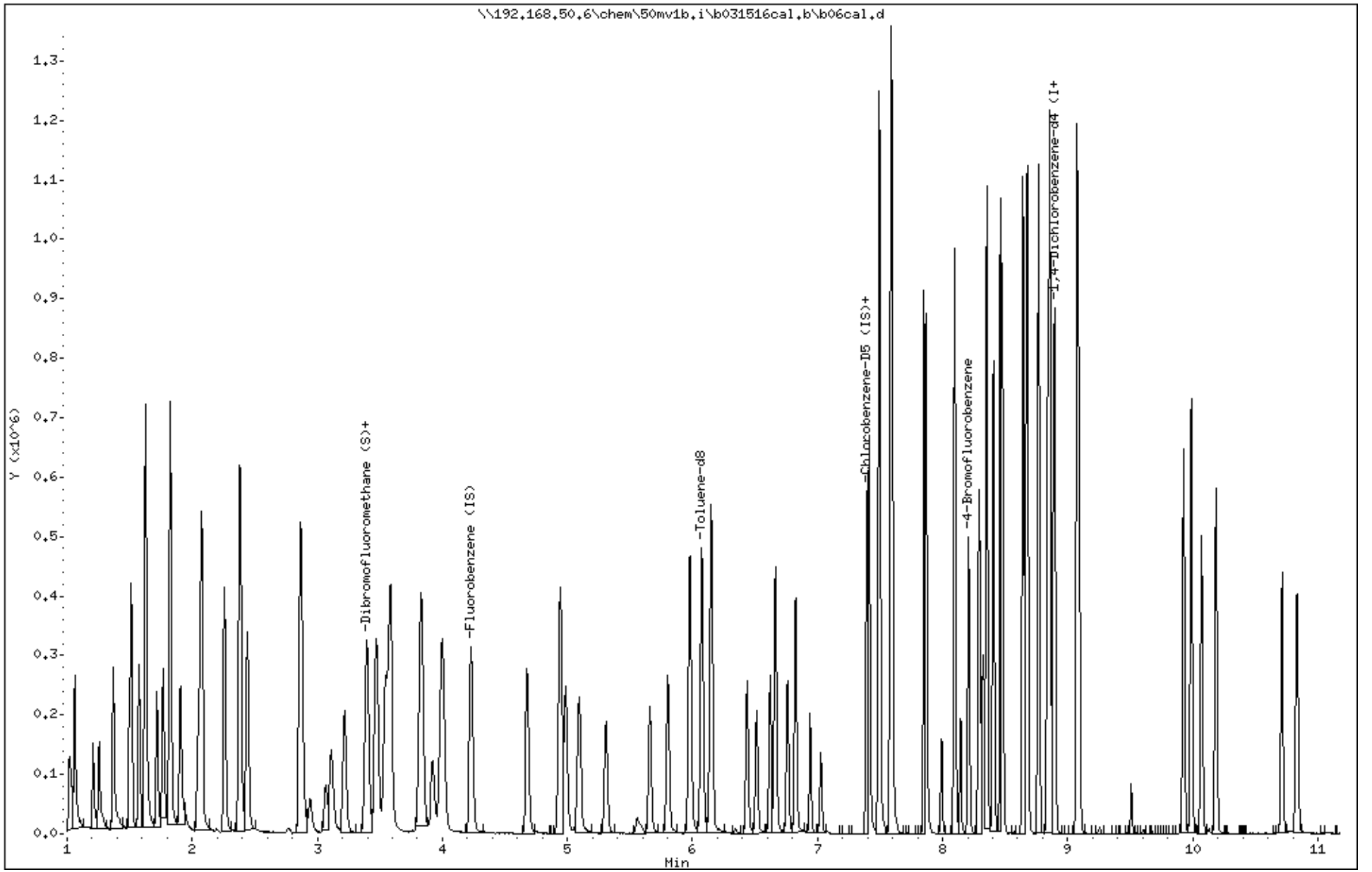
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

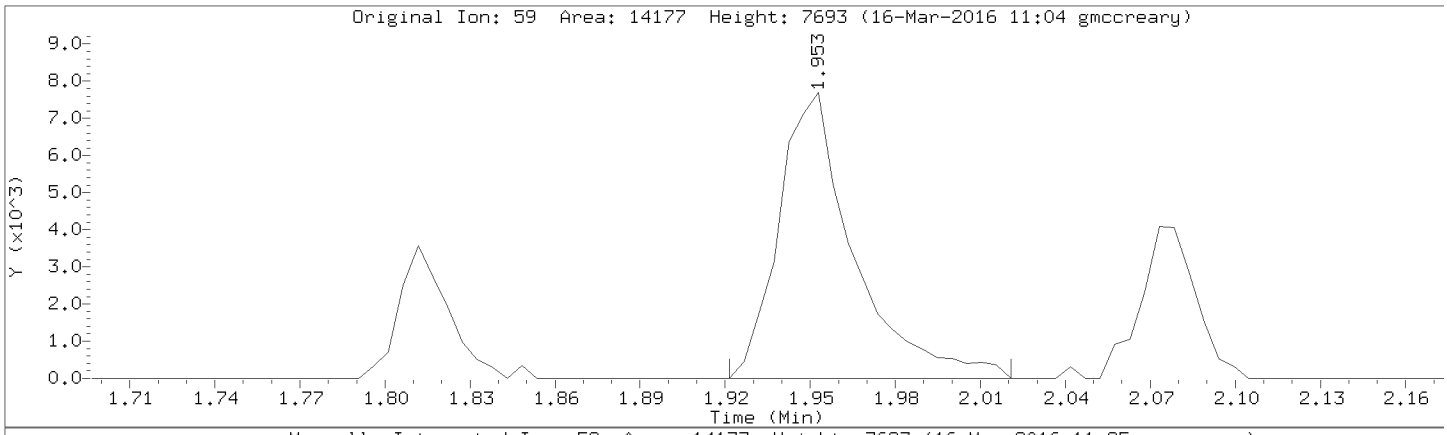
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b06cal.d
Date : 15-MAR-2016 20:56
Client ID: 8260-CAL6,117045:0
Sample Info: 8260-CAL6,117045:0
Purge Volume: 5.0
Column phase: DB-624

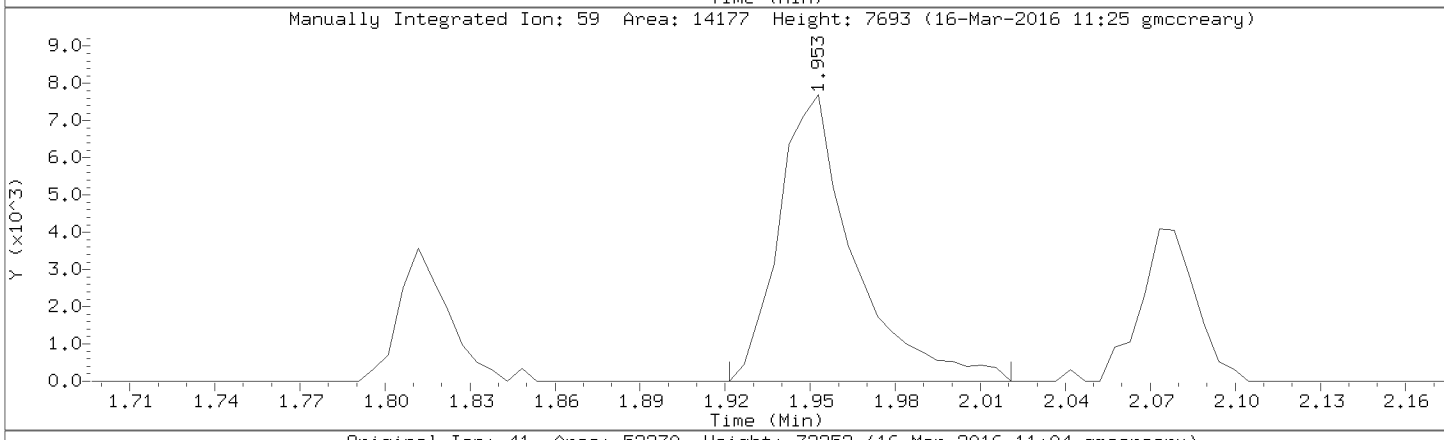
Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18

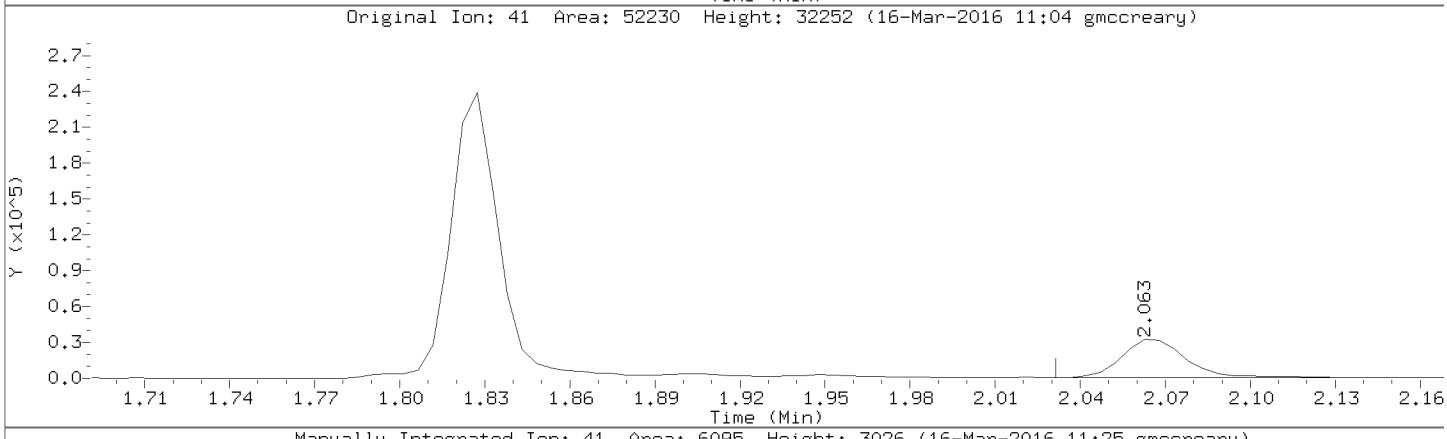


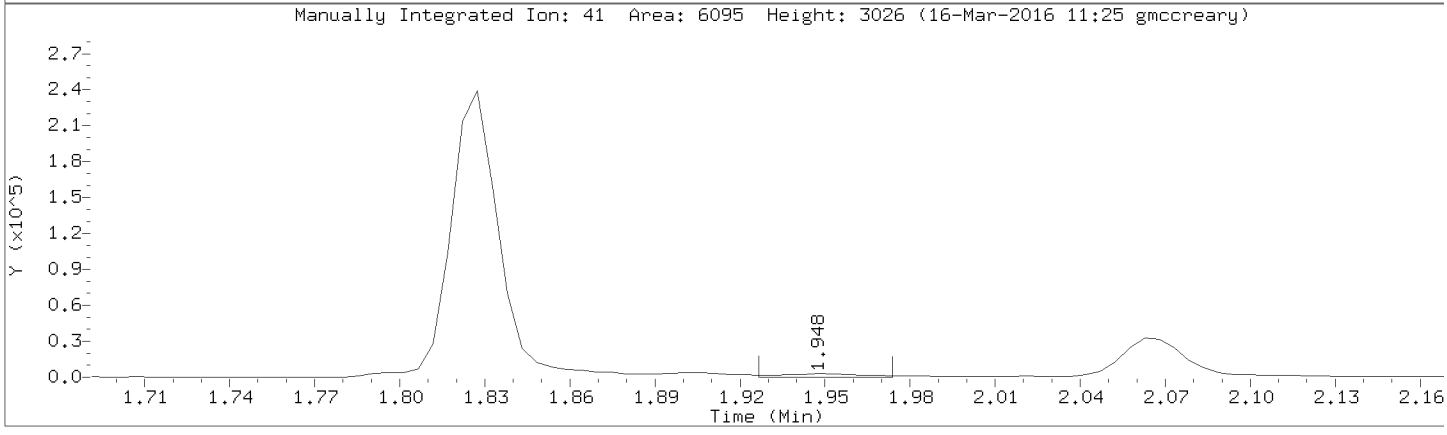
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b06cal.d
Injection Date: 15-MAR-2016 20:56
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL6,117045:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b07cal.d
Lab Smp Id: 8260-CAL7,117046:0 Client Smp ID: 8260-CAL7,117046:0
Inj Date : 15-MAR-2016 21:31
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal7,117046:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 16 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.933	0.931	(0.221)	325421	150.000	156	
2	Chloromethane	50	1.012	1.015	(0.239)	456476	150.000	146	
3	Vinyl Chloride	62	1.064	1.062	(0.252)	361446	150.000	151	
4	Bromomethane	94	1.205	1.208	(0.285)	142910	150.000	152	
5	Chloroethane	64	1.252	1.255	(0.296)	183760	150.000	148	
6	Trichlorofluoromethane	101	1.367	1.371	(0.323)	396548	150.000	158	
7	Diethyl ether	74	1.498	1.496	(0.354)	95877	150.000	153	
8	1,2-dichlorotrifluoroethane	67	1.514	1.512	(0.358)	283801	150.000	158	
9	Acrolein	56	1.571	1.575	(0.372)	435876	3000.00	3120	
10	1,1,2trichlorotrifluoroethane	101	1.618	1.622	(0.383)	249181	150.000	165	
11	1,1-Dichloroethene	96	1.624	1.627	(0.384)	196004	150.000	162	
12	Acetone	43	1.645	1.642	(0.389)	219005	750.000	702	
13	Iodomethane	142	1.718	1.716	(0.406)	401320	300.000	296	
14	Carbon Disulfide	76	1.765	1.763	(0.417)	633250	150.000	147	
15	Methyl Acetate	43	1.812	1.810	(0.429)	126147	150.000	146	
16	Acetonitrile	39	1.828	1.826	(0.432)	437879	150.000	131	
17	allyl chloride	41	1.828	1.826	(0.432)	591828	300.000	258	
18	Methylene Chloride	84	1.901	1.904	(0.450)	201227	150.000	135	
19	tert-Butyl Alcohol	59	1.948	1.946	(0.461)	39553	300.000	350(M)	WP
20	Acrylonitrile	53	2.042	2.045	(0.483)	226944	600.000	634	
21	Methyl-tert-butyl ether	73	2.063	2.066	(0.488)	518555	150.000	156	
22	1,2-Dichloroethene (trans)	96	2.079	2.077	(0.492)	209550	150.000	152	
24	n-Hexane	57	2.256	2.260	(0.534)	364744	150.000	150	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.377	2.375	(0.562)	1582541	600.000	674	
	26 1,1-Dichloroethane	63	2.387	2.385	(0.565)	414086	150.000	155	
	27 Chloroprene	53	2.439	2.443	(0.577)	413802	150.000	161	
	28 2-Butanone	43	2.858	2.856	(0.676)	373743	750.000	784	
	29 1,2-Dichloroethene (cis)	96	2.868	2.872	(0.678)	226888	150.000	158	
	30 2,2-Dichloropropane	77	2.874	2.872	(0.680)	338995	150.000	161	
	31 Propionitrile	54	2.921	2.919	(0.691)	24298	150.000	154(Q)	
	32 Methacrylonitrile	41	3.067	3.065	(0.725)	100918	150.000	155	
	33 Bromochloromethane	49	3.109	3.107	(0.735)	153782	150.000	145	
	34 Tetrahydrofuran	42	3.125	3.128	(0.739)	46785	150.000	140	
	35 Chloroform	83	3.219	3.217	(0.761)	376147	150.000	146	
	37 1,1,1-Trichloroethane	97	3.391	3.395	(0.802)	367863	150.000	159	
$	38 Dibromofluoromethane (S)	113	3.397	3.395	(0.803)	63525	50.0000	46.8	
	39 Cyclohexane	56	3.470	3.473	(0.821)	422162	150.000	158	
	150 n-butyl chloride	56	3.543	3.546	(0.838)	510834	150.000	158	
	40 Carbon Tetrachloride	117	3.574	3.578	(0.845)	319034	150.000	166	
	41 1,1-Dichloropropene	75	3.585	3.588	(0.848)	314096	150.000	161	
	42 Benzene	78	3.831	3.834	(0.906)	833849	150.000	157	
	43 1,2-Dichloroethane	62	3.925	3.923	(0.928)	280999	150.000	153	
	45 2,2,4-Trimethylpentane	57	3.998	4.001	(0.946)	987474	150.000	170	
	44 Isobutyl alcohol	43	3.998	3.996	(0.946)	189884	150.000	169	
*	46 Fluorobenzene (IS)	96	4.228	4.231	(1.000)	261222	50.0000		
	47 Trichloroethene	95	4.673	4.676	(1.105)	200883	150.000	144	
	48 Methylcyclohexane	55	4.939	4.943	(1.168)	342380	150.000	162	
	49 1,2-Dichloropropane	63	4.987	4.990	(1.179)	211482	150.000	154	
	50 Dibromomethane	93	5.086	5.084	(1.203)	109038	150.000	148	
	51 1,4-Dioxane	88	5.091	5.094	(1.204)	35211	3000.00	3050	
	52 Methyl methacrylate	69	5.096	5.100	(1.205)	108268	150.000	163	
	53 Bromodichloromethane	83	5.311	5.309	(1.256)	274455	150.000	152	
	54 2-Chloroethyl vinyl ether	63	5.661	5.659	(0.766)	213583	300.000	354	
	55 cis-1,3-Dichloropropene	75	5.802	5.800	(0.785)	316044	150.000	167	
	56 4-Methyl-2-Pentanone	43	5.975	5.978	(0.808)	777313	750.000	838	
$	57 Toluene-d8	98	6.074	6.078	(0.822)	235886	50.0000	50.6	
	58 Toluene	91	6.148	6.151	(0.832)	879016	150.000	154	
	59 trans-1,3-Dichloropropene	75	6.435	6.433	(0.871)	272205	150.000	175	
	60 Ethyl Methacrylate	69	6.514	6.512	(0.881)	212879	150.000	167	
	61 1,1,2-Trichloroethane	83	6.618	6.622	(0.895)	130790	150.000	164	
	62 Tetrachloroethene	166	6.665	6.663	(0.902)	266476	150.000	171	
	63 1,3-Dichloropropane	76	6.760	6.758	(0.914)	263513	150.000	170	
	64 2-Hexanone	43	6.822	6.826	(0.923)	534031	750.000	809	
	65 Dibromochloromethane	129	6.943	6.941	(0.939)	194471	150.000	169	
	66 1,2-Dibromoethane	107	7.026	7.024	(0.950)	156126	150.000	164	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.390	(1.000)	179369	50.0000		
	68 Chlorobenzene	112	7.413	7.411	(1.003)	566944	150.000	154	
	69 1,1,1,2-Tetrachloroethane	131	7.492	7.490	(1.013)	198829	150.000	164	
	70 Ethylbenzene	106	7.492	7.495	(1.013)	306518	150.000	152	
	71 m&p-Xylene	106	7.591	7.589	(1.027)	770097	300.000	305	
	72 o-Xylene	106	7.853	7.851	(1.062)	374429	150.000	151	
	73 Styrene	104	7.868	7.866	(1.064)	648291	150.000	158	
	74 Bromoform	173	7.989	7.992	(0.899)	148779	150.000	160	
	75 Isopropylbenzene	105	8.093	8.096	(1.095)	1346833	150.000	193	
$	76 4-Bromofluorobenzene	95	8.208	8.206	(1.110)	63743	50.0000	39.1	
	77 Bromobenzene	77	8.287	8.285	(1.121)	315699	150.000	135	
	79 1,1,2,2-Tetrachloroethane	83	8.302	8.300	(0.935)	166439	150.000	120	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.318	8.316	(1.125)	48432	150.000	141	
81	1,2,3-Trichloropropane	110	8.329	8.332	(0.938)	48975	150.000	126	
82	n-Propylbenzene	91	8.355	8.353	(0.941)	1234136	150.000	131	
83	2-Chlorotoluene	91	8.402	8.405	(0.946)	646044	150.000	120	
84	1,3,5-Trimethylbenzene	105	8.465	8.463	(0.953)	853515	150.000	133	
85	4-Chlorotoluene	126	8.480	8.478	(0.955)	229442	150.000	120	
86	tert-Butylbenzene	119	8.642	8.646	(0.973)	881403	150.000	143	
87	1,2,4-Trimethylbenzene	105	8.679	8.677	(0.977)	769516	150.000	116	
88	sec-Butylbenzene	105	8.768	8.766	(0.987)	1068058	150.000	124	
89	1,3-Dichlorobenzene	146	8.841	8.839	(0.995)	588694	150.000	148	
90	p-Isopropyltoluene	119	8.857	8.855	(0.997)	1225970	150.000	161	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.883	8.886	(1.000)	115344	50.0000	(Q)	
92	1,4-Dichlorobenzene	146	8.899	8.897	(1.002)	567359	150.000	142	
93	n-Butylbenzene	91	9.071	9.075	(1.021)	861923	150.000	125	
94	1,2-Dichlorobenzene	146	9.087	9.090	(1.023)	284383	150.000	81.5	
95	1,2-Dibromo-3-chloropropane	155	9.505	9.509	(1.070)	23440	150.000	106	
96	1,2,4-Trichlorobenzene	180	9.919	9.922	(1.117)	406006	150.000	135	
97	Hexachlorobutadiene	225	9.981	9.985	(1.124)	317860	150.000	152	
98	Naphthalene	128	10.060	10.063	(1.132)	847236	150.000	144	
99	1,2,3-Trichlorobenzene	180	10.175	10.178	(1.145)	425324	150.000	147	
100	2,methyl-naphthalene	142	10.698	10.706	(1.204)	686994	150.000	174	
101	1-methylnaphthalene	142	10.818	10.821	(1.218)	647874	150.000	182	

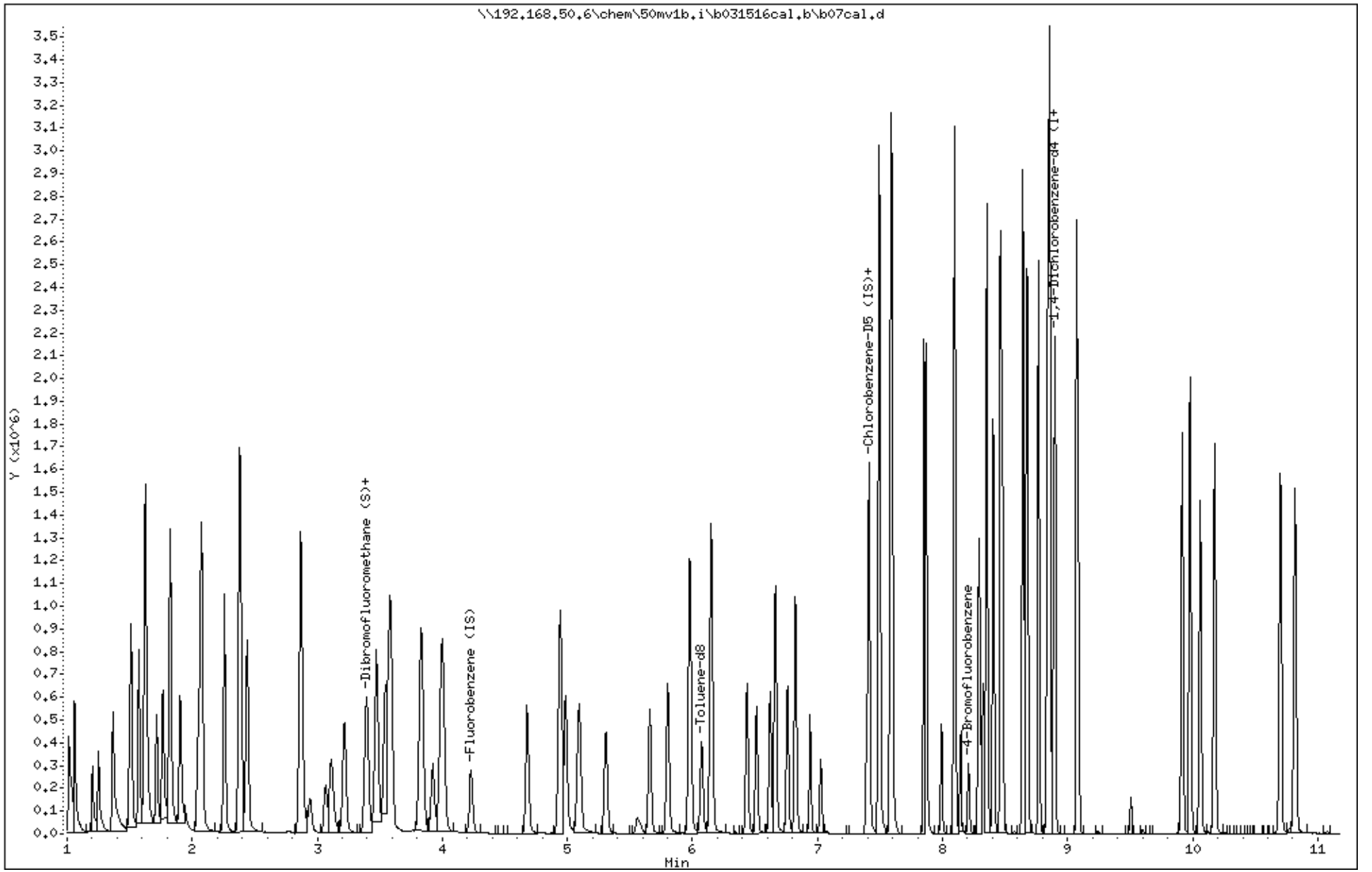
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

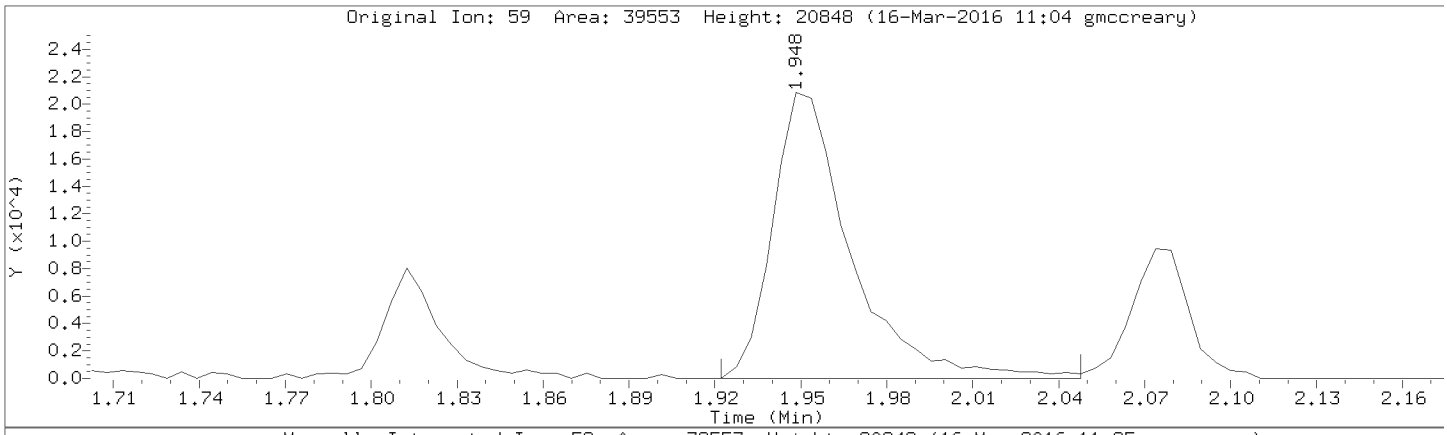
:
WP: Indicates that the wrong peak was chosen by the data system.

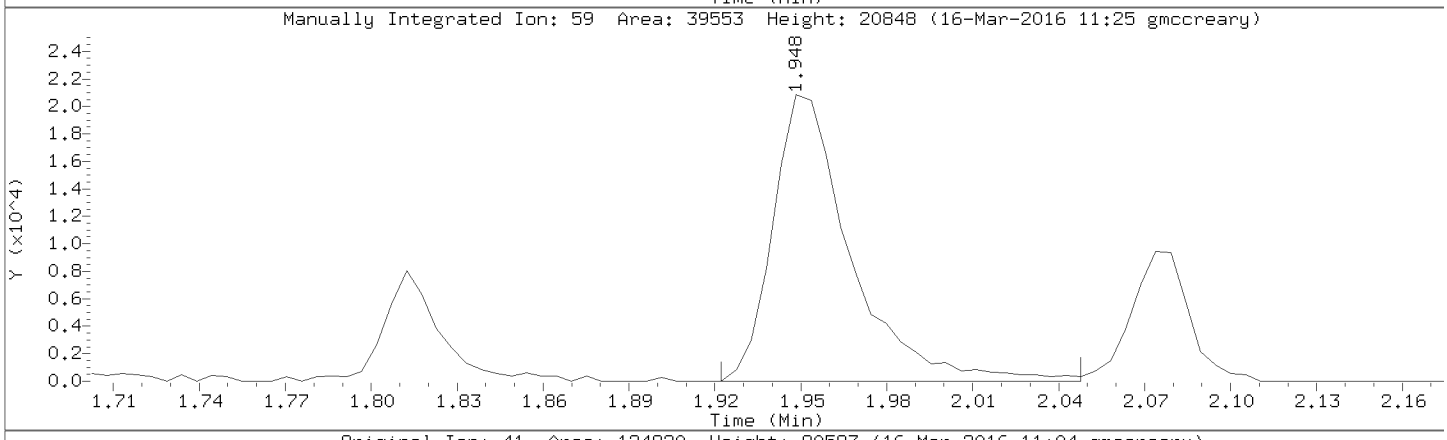
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b07cal.d
Date : 15-MAR-2016 21:31
Client ID: 8260-CAL7,117046:0
Instrument: 50mv1b.i
Sample Info: 8260-CAL7,117046:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

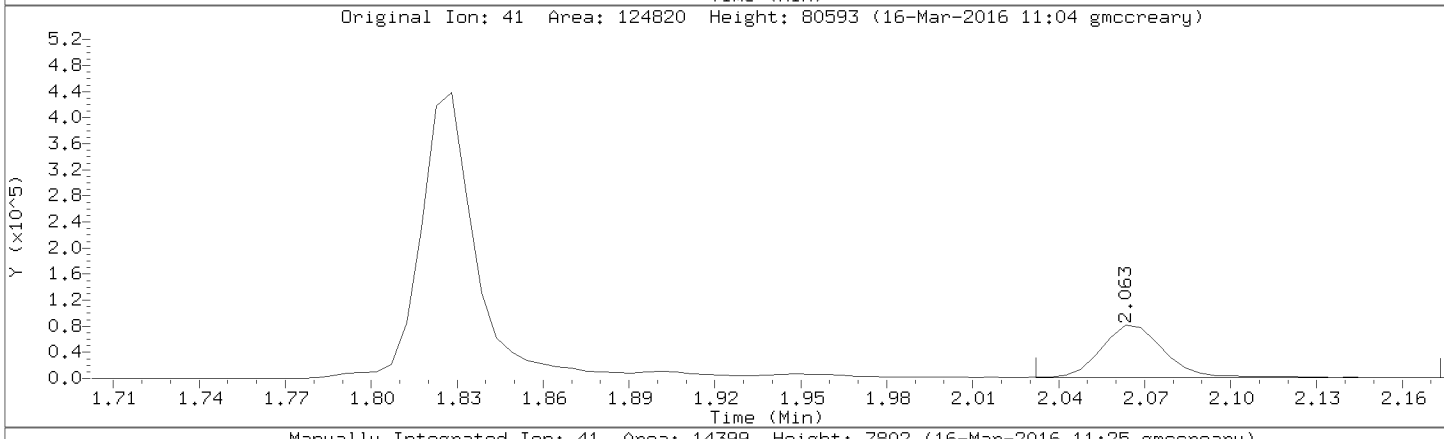


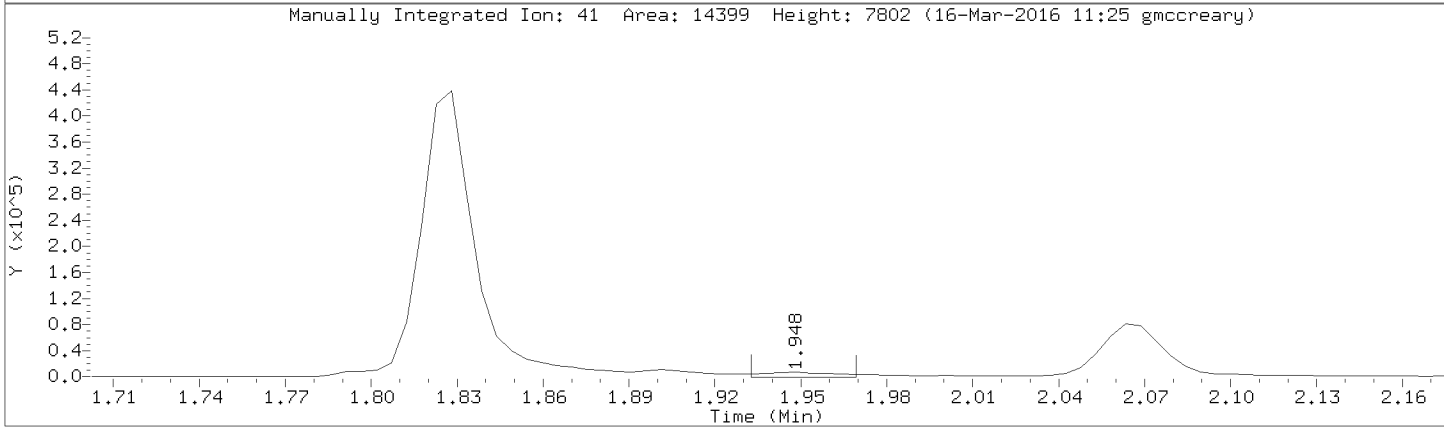
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b07cal.d
Injection Date: 15-MAR-2016 21:31
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL7,117046:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b08cal.d
Lab Smp Id: 8260-CAL8,117047:0 Client Smp ID: 8260-CAL8,117047:0
Inj Date : 15-MAR-2016 22:06
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-cal8,117047:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 23-FEB-2016 19:59 Cal File: b08cal.d
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.932	0.931	(0.221)	942037	300.000	308	
2	Chloromethane	50	1.010	1.015	(0.239)	1471869	300.000	321	
3	Vinyl Chloride	62	1.063	1.062	(0.251)	1069201	300.000	304	
4	Bromomethane	94	1.199	1.208	(0.284)	350498	300.000	253	
5	Chloroethane	64	1.246	1.255	(0.295)	506316	300.000	277	
6	Trichlorofluoromethane	101	1.366	1.371	(0.323)	1121843	300.000	305	
7	Diethyl ether	74	1.497	1.496	(0.354)	282220	300.000	307	
8	1,2-dichlorotrifluoroethane	67	1.512	1.512	(0.358)	839371	300.000	318	
9	Acrolein	56	1.570	1.575	(0.372)	1274128	6000.00	6220	
10	1,1,2trichlorotrifluoroethane	101	1.617	1.622	(0.383)	706615	300.000	318	
11	1,1-Dichloroethene	96	1.622	1.627	(0.384)	562918	300.000	317	
12	Acetone	43	1.643	1.642	(0.389)	630075	1500.00	1380	
13	Iodomethane	142	1.711	1.716	(0.405)	1086274	600.000	547	
14	Carbon Disulfide	76	1.758	1.763	(0.416)	1825197	300.000	288	
15	Methyl Acetate	43	1.811	1.810	(0.428)	371024	300.000	292	
16	Acetonitrile	39	1.821	1.826	(0.431)	1182610	300.000	241	
17	allyl chloride	41	1.821	1.826	(0.431)	1690049	600.000	502	
18	Methylene Chloride	84	1.900	1.904	(0.449)	605060	300.000	276	
19	tert-Butyl Alcohol	59	1.952	1.946	(0.462)	108149	600.000	651(M)	WP
20	Acrylonitrile	53	2.046	2.045	(0.484)	671898	1200.00	1280	
21	Methyl-tert-butyl ether	73	2.067	2.066	(0.489)	1556848	300.000	319	
22	1,2-Dichloroethene (trans)	96	2.072	2.077	(0.490)	615050	300.000	304	
24	n-Hexane	57	2.255	2.260	(0.534)	1073102	300.000	302	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.375	2.375	(0.562)	4728182	1200.00	1370	
	26 1,1-Dichloroethane	63	2.386	2.385	(0.565)	1212674	300.000	309	
	27 Chloroprene	53	2.438	2.443	(0.577)	1213947	300.000	322	
	28 2-Butanone	43	2.857	2.856	(0.676)	1077465	1500.00	1540	
	29 1,2-Dichloroethene (cis)	96	2.867	2.872	(0.678)	675614	300.000	321	
	30 2,2-Dichloropropane	77	2.872	2.872	(0.680)	1014235	300.000	327	
	31 Propionitrile	54	2.919	2.919	(0.691)	70086	300.000	298	
	32 Methacrylonitrile	41	3.066	3.065	(0.725)	301550	300.000	315	
	33 Bromochloromethane	49	3.108	3.107	(0.735)	439907	300.000	282	
	34 Tetrahydrofuran	42	3.123	3.128	(0.739)	129982	300.000	265	
	35 Chloroform	83	3.218	3.217	(0.761)	1147608	300.000	304	
	37 1,1,1-Trichloroethane	97	3.390	3.395	(0.802)	1093242	300.000	321	
$	38 Dibromofluoromethane (S)	113	3.395	3.395	(0.803)	95666	50.0000	48.0	
	39 Cyclohexane	56	3.474	3.473	(0.822)	1220923	300.000	311	
	150 n-butyl chloride	56	3.542	3.546	(0.838)	1507679	300.000	318	
	40 Carbon Tetrachloride	117	3.573	3.578	(0.845)	948682	300.000	336	
	41 1,1-Dichloropropene	75	3.584	3.588	(0.848)	916955	300.000	321	
	42 Benzene	78	3.829	3.834	(0.906)	2449624	300.000	314	
	43 1,2-Dichloroethane	62	3.924	3.923	(0.928)	795916	300.000	296	
	45 2,2,4-Trimethylpentane	57	3.997	4.001	(0.946)	2866374	300.000	337	
	44 Isobutyl alcohol	43	3.997	3.996	(0.946)	528057	300.000	320	
*	46 Fluorobenzene (IS)	96	4.227	4.231	(1.000)	383354	50.0000		
	47 Trichloroethene	95	4.677	4.676	(1.106)	674043	300.000	329	
	48 Methylcyclohexane	55	4.938	4.943	(1.168)	1053152	300.000	339	
	49 1,2-Dichloropropane	63	4.985	4.990	(1.179)	644730	300.000	319	
	50 Dibromomethane	93	5.085	5.084	(1.203)	335880	300.000	310	
	51 1,4-Dioxane	88	5.095	5.094	(1.205)	102783	6000.00	5980	
	52 Methyl methacrylate	69	5.100	5.100	(1.207)	328686	300.000	338	
	53 Bromodichloromethane	83	5.310	5.309	(1.256)	862477	300.000	325	
	54 2-Chloroethyl vinyl ether	63	5.660	5.659	(0.766)	649561	600.000	691	
	55 cis-1,3-Dichloropropene	75	5.801	5.800	(0.785)	978061	300.000	332	
	56 4-Methyl-2-Pentanone	43	5.979	5.978	(0.809)	2296047	1500.00	1590	
$	57 Toluene-d8	98	6.073	6.078	(0.822)	361136	50.0000	49.8	
	58 Toluene	91	6.146	6.151	(0.832)	2698230	300.000	303	
	59 trans-1,3-Dichloropropene	75	6.434	6.433	(0.871)	859940	300.000	354	
	60 Ethyl Methacrylate	69	6.512	6.512	(0.881)	644288	300.000	324	
	61 1,1,2-Trichloroethane	83	6.617	6.622	(0.895)	406736	300.000	328	
	62 Tetrachloroethene	166	6.664	6.663	(0.902)	807972	300.000	334	
	63 1,3-Dichloropropane	76	6.758	6.758	(0.914)	808308	300.000	334	
	64 2-Hexanone	43	6.826	6.826	(0.924)	1582454	1500.00	1540	
	65 Dibromochloromethane	129	6.941	6.941	(0.939)	610939	300.000	340	
	66 1,2-Dibromoethane	107	7.025	7.024	(0.950)	483871	300.000	327	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	279286	50.0000		
	68 Chlorobenzene	112	7.412	7.411	(1.003)	1801023	300.000	314	
	69 1,1,1,2-Tetrachloroethane	131	7.491	7.490	(1.013)	669182	300.000	355	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	1003433	300.000	319	
	71 m&p-Xylene	106	7.595	7.589	(1.028)	2408597	600.000	612	
	72 o-Xylene	106	7.851	7.851	(1.062)	1174321	300.000	305	
	73 Styrene	104	7.867	7.866	(1.064)	2029444	300.000	318	
	74 Bromoform	173	7.993	7.992	(0.899)	427551	300.000	355	
	75 Isopropylbenzene	105	8.097	8.096	(1.096)	3348178	300.000	308	
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	128224	50.0000	50.6	
	77 Bromobenzene	77	8.286	8.285	(1.121)	1120300	300.000	308	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.300	(0.934)	576701	300.000	321	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.322	8.316	(1.126)	185683	300.000	346	
81	1,2,3-Trichloropropane	110	8.333	8.332	(0.938)	166120	300.000	328	
82	n-Propylbenzene	91	8.353	8.353	(0.940)	3912560	300.000	320	
83	2-Chlorotoluene	91	8.406	8.405	(0.946)	2153314	300.000	308	
84	1,3,5-Trimethylbenzene	105	8.463	8.463	(0.952)	2793304	300.000	336	
85	4-Chlorotoluene	126	8.479	8.478	(0.954)	776715	300.000	313	
86	tert-Butylbenzene	119	8.646	8.646	(0.973)	2599354	300.000	325	
87	1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	2792005	300.000	323	
88	sec-Butylbenzene	105	8.767	8.766	(0.986)	3721741	300.000	333	
89	1,3-Dichlorobenzene	146	8.840	8.839	(0.995)	1535951	300.000	298	
90	p-Isopropyltoluene	119	8.856	8.855	(0.996)	3179578	300.000	322	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.886	(1.000)	149699	50.0000	(Q)	
92	1,4-Dichlorobenzene	146	8.897	8.897	(1.001)	1533934	300.000	297	
93	n-Butylbenzene	91	9.075	9.075	(1.021)	3016301	300.000	338	
94	1,2-Dichlorobenzene	146	9.091	9.090	(1.023)	1400092	300.000	309	
95	1,2-Dibromo-3-chloropropane	155	9.504	9.509	(1.069)	100940	300.000	351	
96	1,2,4-Trichlorobenzene	180	9.917	9.922	(1.116)	1128456	300.000	289	
97	Hexachlorobutadiene	225	9.980	9.985	(1.123)	848689	300.000	313	
98	Naphthalene	128	10.064	10.063	(1.132)	2142842	300.000	280	
99	1,2,3-Trichlorobenzene	180	10.179	10.178	(1.145)	1055177	300.000	282	
100	2,methyl-naphthalene	142	10.702	10.706	(1.204)	1417549	300.000	276	
101	1-methylnaphthalene	142	10.822	10.821	(1.218)	1312592	300.000	283	

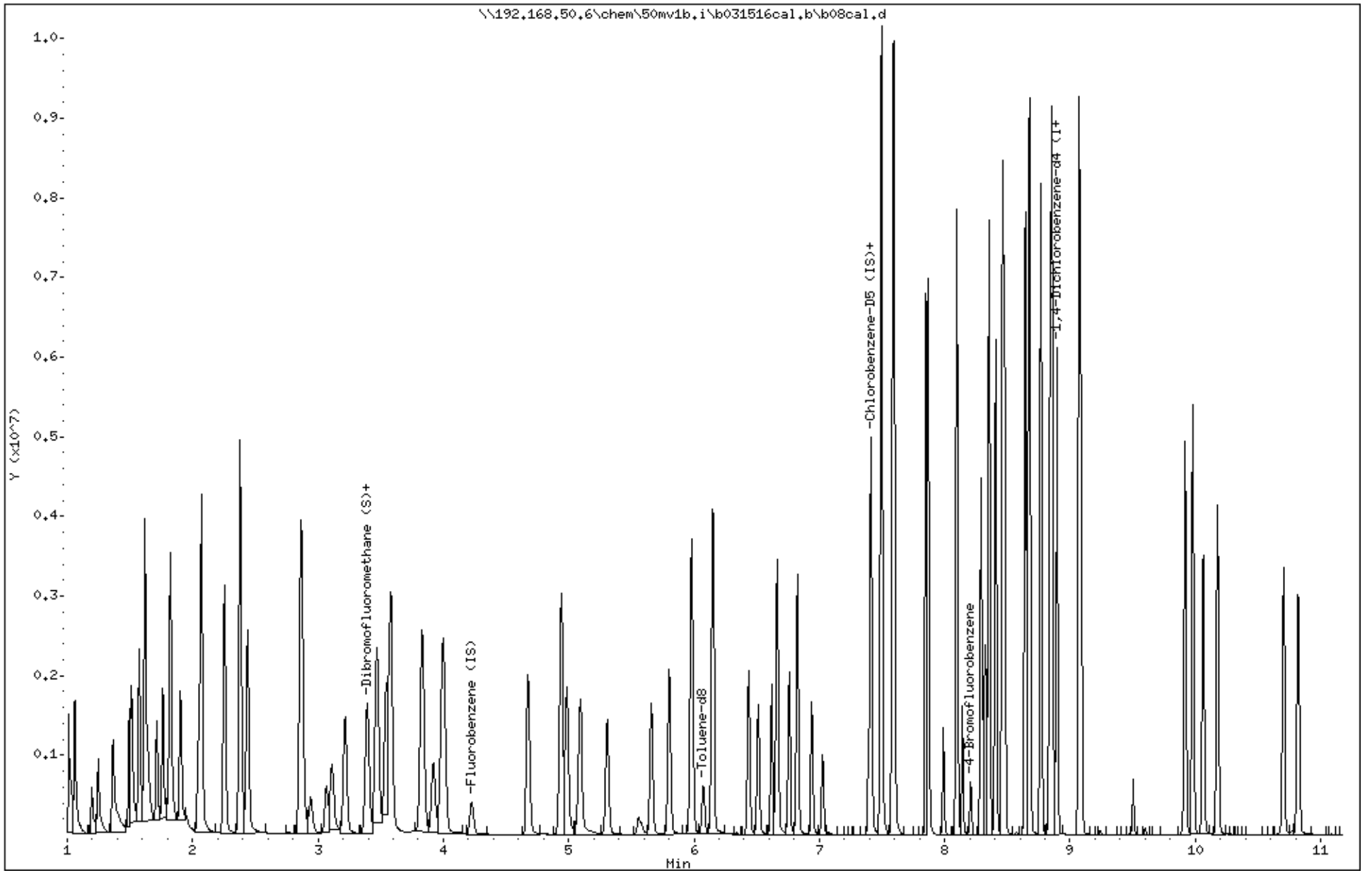
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

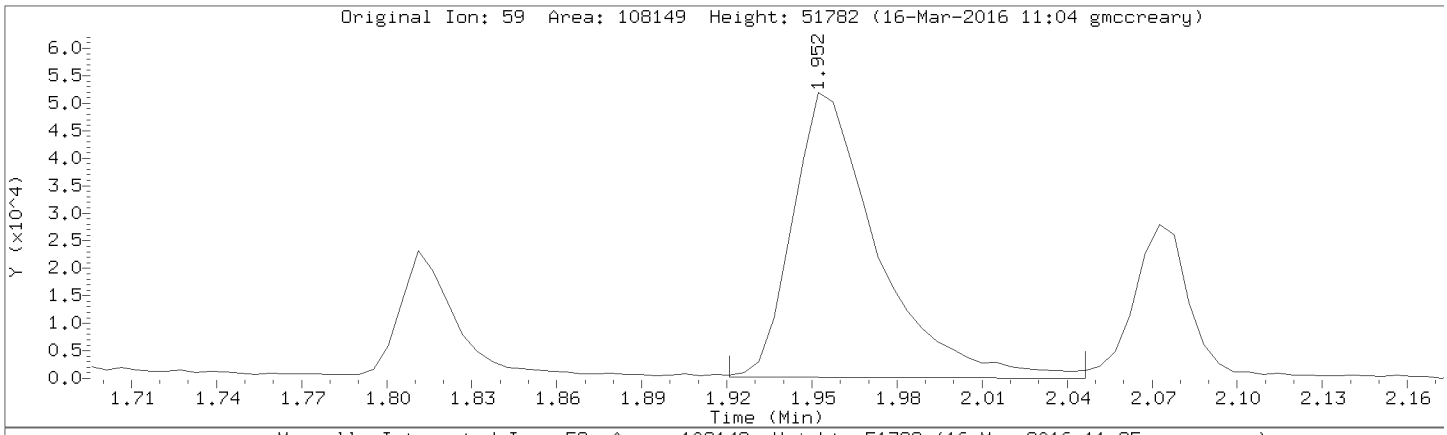
:
WP: Indicates that the wrong peak was chosen by the data system.

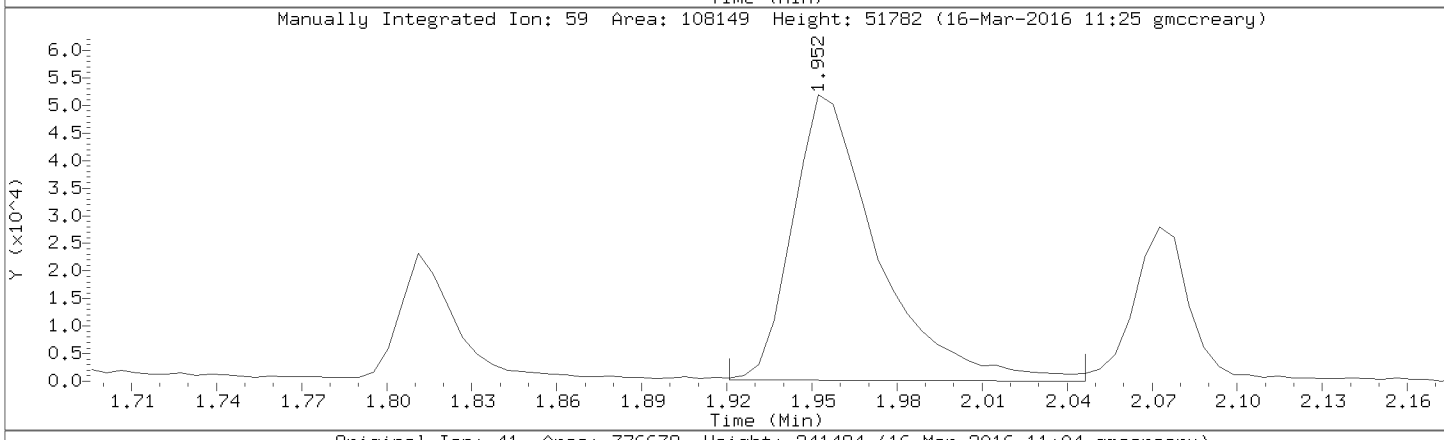
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b08cal.d
Date : 15-MAR-2016 22:06
Client ID: 8260-CAL8,117047:0
Instrument: 50mv1b.i
Sample Info: 8260-CAL8,117047:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18

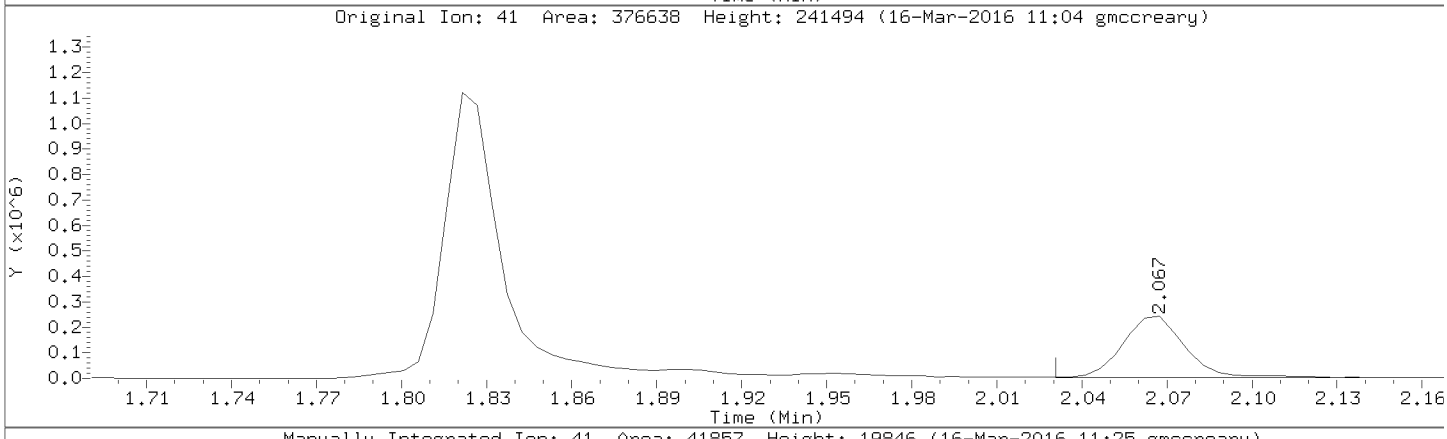


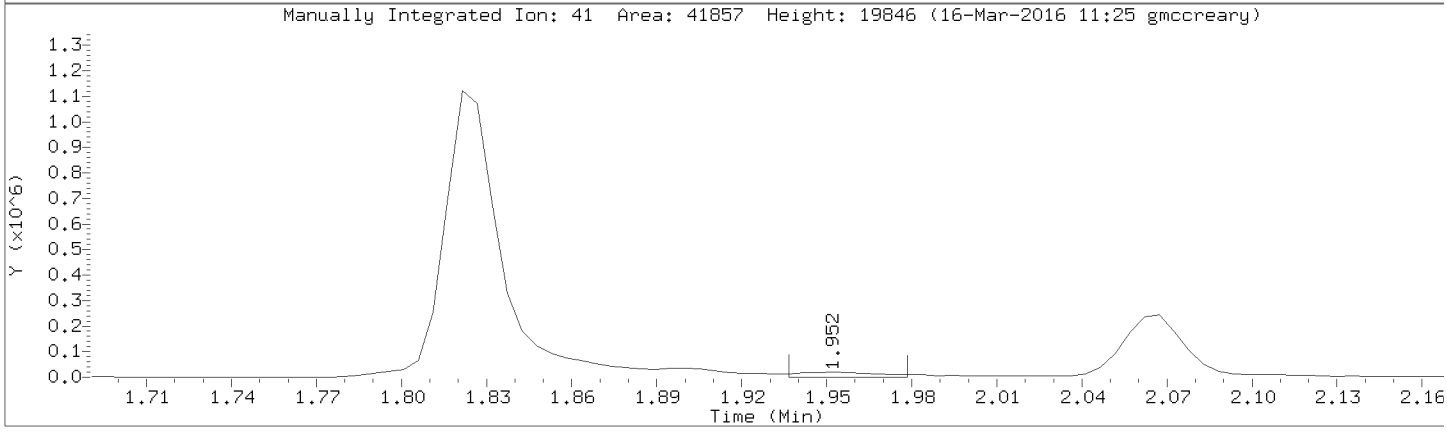
Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b08cal.d
Injection Date: 15-MAR-2016 22:06
Instrument: 50mv1b.i
Lab Sample ID: 8260-CAL8,117047:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









SAMPLE NO.

9458733CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/20/2016 Time: 14:09

Instrument ID: 50MV1A GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: A032016.B\A01CCV.D Init. Calib. Time(s): 17:44 21:49

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05232	0.05013	0.0100	-4.1787	20.0000
Benzene	Averaged	0.90975	0.97647	0.5000	7.3336	20.0000
Bromodichloromethane	Averaged	0.30948	0.28525	0.2000	-7.8280	20.0000
Bromoform	Averaged	0.36969	0.31370	0.1000	-15.1443	20.0000
Bromomethane	Averaged	0.10881	0.08678	0.1000	-20.2456	20.0000
2-Butanone (MEK)	Averaged	0.08519	0.08794	0.0100	3.2328	20.0000
Carbon disulfide	Averaged	0.70134	0.70977	0.1000	1.2017	20.0000
Carbon tetrachloride	Averaged	0.31305	0.28074	0.1000	-10.3217	20.0000
Chlorobenzene	Averaged	0.91617	0.94246	0.5000	2.8703	20.0000
Chloroethane	Averaged	0.19578	0.15134	0.1000	-22.6987	20.0000
Chloroform	Averaged	0.42478	0.45055	0.2000	6.0669	20.0000
Chloromethane	Averaged	0.42232	0.29164	0.1000	-30.9422	20.0000
Cyclohexane	Averaged	0.44575	0.50890	0.1000	14.1664	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.09286	0.08102	0.0500	-12.7480	20.0000
Dibromochloromethane	Averaged	0.28587	0.25160	0.1000	-11.9879	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.23640	0.16995	0.1000	-28.1095	20.0000
1,2-Dichlorobenzene	Averaged	1.41096	1.38765	0.4000	-1.6524	20.0000
1,3-Dichlorobenzene	Averaged	1.51848	1.56122	0.6000	2.8147	20.0000
1,4-Dichlorobenzene	Averaged	1.56518	1.52033	0.5000	-2.8650	20.0000
Dichlorodifluoromethane	Averaged	0.32490	0.31963	0.1000	-1.6205	20.0000
1,1-Dichloroethane	Averaged	0.44644	0.47033	0.2000	5.3504	20.0000
1,2-Dichloroethane	Averaged	0.31690	0.30502	0.1000	-3.7501	20.0000
1,1-Dichloroethene	Averaged	0.19997	0.24848	0.1000	24.2597	20.0000
cis-1,2-Dichloroethene	Averaged	0.24715	0.25635	0.1000	3.7231	20.0000
trans-1,2-Dichloroethene	Averaged	0.22438	0.24973	0.1000	11.2941	20.0000
1,2-Dichloropropane	Averaged	0.23411	0.24561	0.1000	4.9102	20.0000
cis-1,3-Dichloropropene	Averaged	0.44971	0.38763	0.2000	-13.8045	20.0000
trans-1,3-Dichloropropene	Averaged	0.37156	0.30812	0.1000	-17.0731	20.0000
Ethylbenzene	Averaged	0.50686	0.53652	0.1000	5.8533	20.0000
2-Hexanone	Averaged	0.17859	0.17503	0.0500	-1.9948	20.0000
Isopropylbenzene (Cumene)	Averaged	1.58299	1.79675	0.1000	13.5034	20.0000
Methyl acetate	Averaged	0.14689	0.14794	0.1000	0.7101	20.0000
Methylcyclohexane	Averaged	0.36620	0.43307	0.1000	18.2615	20.0000
Methylene Chloride	Averaged	0.22988	0.20157	0.1000	-12.3142	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.24836	0.25643	0.0500	3.2482	20.0000
Methyl-tert-butyl ether	Averaged	0.56301	0.45510	0.1000	-19.1655	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9458733CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/20/2016 Time: 14:09

Instrument ID: 50MV1A GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: A032016.B\A01CCV.D Init. Calib. Time(s): 17:44 21:49

SDG No.: 50140212

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	0.98431	1.08494	0.3000	10.2238	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.59160	0.57449	0.3000	-2.8924	20.0000
Tetrachloroethene	Averaged	0.40321	0.45420	0.2000	12.6465	20.0000
Toluene	Averaged	1.44785	1.48914	0.4000	2.8518	20.0000
1,2,4-Trichlorobenzene	Averaged	1.08347	1.14167	0.2000	5.3719	20.0000
1,1,1-Trichloroethane	Averaged	0.37772	0.39405	0.1000	4.3224	20.0000
1,1,2-Trichloroethane	Averaged	0.19854	0.21801	0.1000	9.8032	20.0000
Trichloroethene	Averaged	0.24972	0.29134	0.2000	16.6679	20.0000
Trichlorofluoromethane	Averaged	0.41770	0.43066	0.1000	3.1028	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.25734	0.29639	0.1000	15.1751	20.0000
Vinyl chloride	Averaged	0.36557	0.34158	0.1000	-6.5625	20.0000
m&p-Xylene	Averaged	0.62121	0.66977	0.1000	7.8172	20.0000
o-Xylene	Averaged	0.59536	0.64268	0.3000	7.9481	20.0000
4-Bromofluorobenzene (S)	Averaged	0.46068	0.48075	0.1000	4.3584	20.0000
Dibromofluoromethane (S)	Averaged	0.25151	0.23283	0.1000	-7.4298	20.0000
Toluene-d8 (S)	Averaged	1.30903	1.31867	0.1000	0.7365	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9454494CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/17/2016 Time: 12:15

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031716.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05973	0.05525	0.0100	-7.4975	20.0000
Benzene	Averaged	1.01599	1.12542	0.5000	10.7702	20.0000
Bromodichloromethane	Averaged	0.34645	0.36727	0.2000	6.0095	20.0000
Bromoform	Averaged	0.40240	0.42556	0.1000	5.7566	20.0000
Bromomethane	Averaged	0.18048	0.05760	0.1000	-68.0871	20.0000
2-Butanone (MEK)	Averaged	0.09124	0.10158	0.0100	11.3326	20.0000
Carbon disulfide	Averaged	0.82653	0.85853	0.1000	3.8719	20.0000
Carbon tetrachloride	Averaged	0.36794	0.43164	0.1000	17.3106	20.0000
Chlorobenzene	Averaged	1.02519	1.10348	0.5000	7.6361	20.0000
Chloroethane	Averaged	0.23826	0.29614	0.1000	24.2946	20.0000
Chloroform	Averaged	0.49171	0.53360	0.2000	8.5194	20.0000
Chloromethane	Averaged	0.59722	0.41919	0.1000	-29.8094	20.0000
Cyclohexane	Averaged	0.51145	0.57946	0.1000	13.2959	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.09604	0.10805	0.0500	12.5113	20.0000
Dibromochloromethane	Averaged	0.32117	0.35273	0.1000	9.8269	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.26453	0.29572	0.1000	11.7920	20.0000
1,2-Dichlorobenzene	Averaged	1.51306	1.60901	0.4000	6.3416	20.0000
1,3-Dichlorobenzene	Averaged	1.72094	1.77530	0.6000	3.1588	20.0000
1,4-Dichlorobenzene	Averaged	1.72696	1.78144	0.5000	3.1546	20.0000
Dichlorodifluoromethane	Averaged	0.39941	0.44235	0.1000	10.7524	20.0000
1,1-Dichloroethane	Averaged	0.51166	0.54573	0.2000	6.6581	20.0000
1,2-Dichloroethane	Averaged	0.35057	0.36932	0.1000	5.3480	20.0000
1,1-Dichloroethene	Averaged	0.23144	0.26849	0.1000	16.0069	20.0000
cis-1,2-Dichloroethene	Averaged	0.27485	0.30861	0.1000	12.2851	20.0000
trans-1,2-Dichloroethene	Averaged	0.26394	0.28641	0.1000	8.5117	20.0000
1,2-Dichloropropane	Averaged	0.26321	0.27981	0.1000	6.3082	20.0000
cis-1,3-Dichloropropene	Averaged	0.52751	0.60051	0.2000	13.8402	20.0000
trans-1,3-Dichloropropene	Averaged	0.43421	0.50013	0.1000	15.1817	20.0000
Ethylbenzene	Averaged	0.56263	0.60633	0.1000	7.7667	20.0000
2-Hexanone	Averaged	0.18393	0.19074	0.0500	3.7048	20.0000
Isopropylbenzene (Cumene)	Averaged	1.94285	2.09454	0.1000	7.8078	20.0000
Methyl acetate	Averaged	0.16591	0.16053	0.1000	-3.2439	20.0000
Methylcyclohexane	Averaged	0.40462	0.48842	0.1000	20.7082	20.0000
Methylene Chloride	Averaged	0.28548	0.27464	0.1000	-3.7986	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.25854	0.27995	0.0500	8.2790	20.0000
Methyl-tert-butyl ether	Averaged	0.63569	0.67801	0.1000	6.6575	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9454494CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/17/2016 Time: 12:15

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031716.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.14249	1.24405	0.3000	8.8896	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.60058	0.63781	0.3000	6.1978	20.0000
Tetrachloroethene	Averaged	0.43339	0.51284	0.2000	18.3324	20.0000
Toluene	Averaged	1.59237	1.72286	0.4000	8.1947	20.0000
1,2,4-Trichlorobenzene	Averaged	1.30392	1.31226	0.2000	0.6391	20.0000
1,1,1-Trichloroethane	Averaged	0.44365	0.50130	0.1000	12.9941	20.0000
1,1,2-Trichloroethane	Averaged	0.22176	0.24397	0.1000	10.0172	20.0000
Trichloroethene	Averaged	0.26723	0.30479	0.2000	14.0559	20.0000
Trichlorofluoromethane	Averaged	0.47995	0.50877	0.1000	6.0058	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.28975	0.34480	0.1000	18.9988	20.0000
Vinyl chloride	Averaged	0.45861	0.45019	0.1000	-1.8344	20.0000
m&p-Xylene	Averaged	0.70433	0.76173	0.1000	8.1483	20.0000
o-Xylene	Averaged	0.68945	0.73936	0.3000	7.2390	20.0000
4-Bromofluorobenzene (S)	Averaged	0.45389	0.48687	0.1000	7.2653	20.0000
Dibromofluoromethane (S)	Averaged	0.25964	0.25605	0.1000	-1.3826	20.0000
Toluene-d8 (S)	Averaged	1.29827	1.33344	0.1000	2.7091	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9457513CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/18/2016 Time: 00:34

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031716.B\D01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05973	0.05616	0.0100	-5.9804	20.0000
Benzene	Averaged	1.01599	1.09420	0.5000	7.6979	20.0000
Bromodichloromethane	Averaged	0.34645	0.36518	0.2000	5.4038	20.0000
Bromoform	Averaged	0.40240	0.42450	0.1000	5.4930	20.0000
Bromomethane	Averaged	0.18048	0.12048	0.1000	-33.2442	20.0000
2-Butanone (MEK)	Averaged	0.09124	0.09715	0.0100	6.4796	20.0000
Carbon disulfide	Averaged	0.82653	0.82430	0.1000	-0.2695	20.0000
Carbon tetrachloride	Averaged	0.36794	0.41132	0.1000	11.7887	20.0000
Chlorobenzene	Averaged	1.02519	1.06795	0.5000	4.1706	20.0000
Chloroethane	Averaged	0.23826	0.24783	0.1000	4.0183	20.0000
Chloroform	Averaged	0.49171	0.51716	0.2000	5.1770	20.0000
Chloromethane	Averaged	0.59722	0.47919	0.1000	-19.7639	20.0000
Cyclohexane	Averaged	0.51145	0.54083	0.1000	5.7426	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.09604	0.11012	0.0500	14.6651	20.0000
Dibromochloromethane	Averaged	0.32117	0.35491	0.1000	10.5072	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.26453	0.29093	0.1000	9.9804	20.0000
1,2-Dichlorobenzene	Averaged	1.51306	1.56871	0.4000	3.6780	20.0000
1,3-Dichlorobenzene	Averaged	1.72094	1.67163	0.6000	-2.8652	20.0000
1,4-Dichlorobenzene	Averaged	1.72696	1.67610	0.5000	-2.9456	20.0000
Dichlorodifluoromethane	Averaged	0.39941	0.40173	0.1000	0.5832	20.0000
1,1-Dichloroethane	Averaged	0.51166	0.54083	0.2000	5.7011	20.0000
1,2-Dichloroethane	Averaged	0.35057	0.36684	0.1000	4.6407	20.0000
1,1-Dichloroethene	Averaged	0.23144	0.24846	0.1000	7.3508	20.0000
cis-1,2-Dichloroethene	Averaged	0.27485	0.29779	0.1000	8.3474	20.0000
trans-1,2-Dichloroethene	Averaged	0.26394	0.27672	0.1000	4.8411	20.0000
1,2-Dichloropropane	Averaged	0.26321	0.27452	0.1000	4.2992	20.0000
cis-1,3-Dichloropropene	Averaged	0.52751	0.58524	0.2000	10.9451	20.0000
trans-1,3-Dichloropropene	Averaged	0.43421	0.48415	0.1000	11.5028	20.0000
Ethylbenzene	Averaged	0.56263	0.60147	0.1000	6.9036	20.0000
2-Hexanone	Averaged	0.18393	0.18865	0.0500	2.5672	20.0000
Isopropylbenzene (Cumene)	Averaged	1.94285	2.02192	0.1000	4.0700	20.0000
Methyl acetate	Averaged	0.16591	0.15219	0.1000	-8.2727	20.0000
Methylcyclohexane	Averaged	0.40462	0.45877	0.1000	13.3822	20.0000
Methylene Chloride	Averaged	0.28548	0.26287	0.1000	-7.9223	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.25854	0.28279	0.0500	9.3796	20.0000
Methyl-tert-butyl ether	Averaged	0.63569	0.67161	0.1000	5.6510	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9457513CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/18/2016 Time: 00:34

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031716.B\D01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.14249	1.23404	0.3000	8.0136	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.60058	0.62379	0.3000	3.8637	20.0000
Tetrachloroethene	Averaged	0.43339	0.49132	0.2000	13.3669	20.0000
Toluene	Averaged	1.59237	1.69035	0.4000	6.1532	20.0000
1,2,4-Trichlorobenzene	Averaged	1.30392	1.19837	0.2000	-8.0951	20.0000
1,1,1-Trichloroethane	Averaged	0.44365	0.47546	0.1000	7.1700	20.0000
1,1,2-Trichloroethane	Averaged	0.22176	0.24770	0.1000	11.6989	20.0000
Trichloroethene	Averaged	0.26723	0.29308	0.2000	9.6758	20.0000
Trichlorofluoromethane	Averaged	0.47995	0.47594	0.1000	-0.8347	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.28975	0.31619	0.1000	9.1269	20.0000
Vinyl chloride	Averaged	0.45861	0.45122	0.1000	-1.6099	20.0000
m&p-Xylene	Averaged	0.70433	0.74474	0.1000	5.7372	20.0000
o-Xylene	Averaged	0.68945	0.72835	0.3000	5.6422	20.0000
4-Bromofluorobenzene (S)	Averaged	0.45389	0.48353	0.1000	6.5294	20.0000
Dibromofluoromethane (S)	Averaged	0.25964	0.25101	0.1000	-3.3241	20.0000
Toluene-d8 (S)	Averaged	1.29827	1.34074	0.1000	3.2713	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9457676CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/18/2016 Time: 13:08

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031816.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05973	0.05624	0.0100	-5.8435	20.0000
Benzene	Averaged	1.01599	1.09265	0.5000	7.5451	20.0000
Bromodichloromethane	Averaged	0.34645	0.36774	0.2000	6.1451	20.0000
Bromoform	Averaged	0.40240	0.41678	0.1000	3.5731	20.0000
Bromomethane	Averaged	0.18048	0.13271	0.1000	-26.4640	20.0000
2-Butanone (MEK)	Averaged	0.09124	0.09311	0.0100	2.0566	20.0000
Carbon disulfide	Averaged	0.82653	0.84354	0.1000	2.0582	20.0000
Carbon tetrachloride	Averaged	0.36794	0.41278	0.1000	12.1856	20.0000
Chlorobenzene	Averaged	1.02519	1.06528	0.5000	3.9097	20.0000
Chloroethane	Averaged	0.23826	0.25426	0.1000	6.7161	20.0000
Chloroform	Averaged	0.49171	0.51838	0.2000	5.4248	20.0000
Chloromethane	Averaged	0.59722	0.51620	0.1000	-13.5664	20.0000
Cyclohexane	Averaged	0.51145	0.56037	0.1000	9.5642	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.09604	0.09754	0.0500	1.5693	20.0000
Dibromochloromethane	Averaged	0.32117	0.35031	0.1000	9.0730	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.26453	0.28737	0.1000	8.6349	20.0000
1,2-Dichlorobenzene	Averaged	1.51306	1.57389	0.4000	4.0201	20.0000
1,3-Dichlorobenzene	Averaged	1.72094	1.73324	0.6000	0.7145	20.0000
1,4-Dichlorobenzene	Averaged	1.72696	1.74885	0.5000	1.2672	20.0000
Dichlorodifluoromethane	Averaged	0.39941	0.40381	0.1000	1.1038	20.0000
1,1-Dichloroethane	Averaged	0.51166	0.55224	0.2000	7.9308	20.0000
1,2-Dichloroethane	Averaged	0.35057	0.35364	0.1000	0.8753	20.0000
1,1-Dichloroethene	Averaged	0.23144	0.25905	0.1000	11.9282	20.0000
cis-1,2-Dichloroethene	Averaged	0.27485	0.29752	0.1000	8.2477	20.0000
trans-1,2-Dichloroethene	Averaged	0.26394	0.28227	0.1000	6.9444	20.0000
1,2-Dichloropropane	Averaged	0.26321	0.28268	0.1000	7.3995	20.0000
cis-1,3-Dichloropropene	Averaged	0.52751	0.59039	0.2000	11.9209	20.0000
trans-1,3-Dichloropropene	Averaged	0.43421	0.47985	0.1000	10.5118	20.0000
Ethylbenzene	Averaged	0.56263	0.58991	0.1000	4.8489	20.0000
2-Hexanone	Averaged	0.18393	0.18263	0.0500	-0.7061	20.0000
Isopropylbenzene (Cumene)	Averaged	1.94285	2.04758	0.1000	5.3904	20.0000
Methyl acetate	Averaged	0.16591	0.16191	0.1000	-2.4111	20.0000
Methylcyclohexane	Averaged	0.40462	0.47148	0.1000	16.5226	20.0000
Methylene Chloride	Averaged	0.28548	0.26321	0.1000	-7.8026	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.25854	0.27590	0.0500	6.7123	20.0000
Methyl-tert-butyl ether	Averaged	0.63569	0.65974	0.1000	3.7837	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9457676CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/18/2016 Time: 13:08

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B031816.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.14249	1.23158	0.3000	7.7980	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.60058	0.60690	0.3000	1.0524	20.0000
Tetrachloroethene	Averaged	0.43339	0.49651	0.2000	14.5627	20.0000
Toluene	Averaged	1.59237	1.67528	0.4000	5.2065	20.0000
1,2,4-Trichlorobenzene	Averaged	1.30392	1.30879	0.2000	0.3736	20.0000
1,1,1-Trichloroethane	Averaged	0.44365	0.48879	0.1000	10.1751	20.0000
1,1,2-Trichloroethane	Averaged	0.22176	0.24312	0.1000	9.6334	20.0000
Trichloroethene	Averaged	0.26723	0.29857	0.2000	11.7299	20.0000
Trichlorofluoromethane	Averaged	0.47995	0.50934	0.1000	6.1239	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.28975	0.33773	0.1000	16.5614	20.0000
Vinyl chloride	Averaged	0.45861	0.47920	0.1000	4.4897	20.0000
m&p-Xylene	Averaged	0.70433	0.75118	0.1000	6.6510	20.0000
o-Xylene	Averaged	0.68945	0.73717	0.3000	6.9206	20.0000
4-Bromofluorobenzene (S)	Averaged	0.45389	0.48326	0.1000	6.4702	20.0000
Dibromofluoromethane (S)	Averaged	0.25964	0.25395	0.1000	-2.1946	20.0000
Toluene-d8 (S)	Averaged	1.29827	1.33085	0.1000	2.5097	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9458855CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/20/2016 Time: 14:27

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B032016.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.05973	0.05368	0.0100	-10.1378	20.0000
Benzene	Averaged	1.01599	1.06388	0.5000	4.7139	20.0000
Bromodichloromethane	Averaged	0.34645	0.37328	0.2000	7.7441	20.0000
Bromoform	Averaged	0.40240	0.46334	0.1000	15.1455	20.0000
Bromomethane	Averaged	0.18048	0.14876	0.1000	-17.5718	20.0000
2-Butanone (MEK)	Averaged	0.09124	0.10694	0.0100	17.2156	20.0000
Carbon disulfide	Averaged	0.82653	0.85048	0.1000	2.8981	20.0000
Carbon tetrachloride	Averaged	0.36794	0.41622	0.1000	13.1200	20.0000
Chlorobenzene	Averaged	1.02519	1.07773	0.5000	5.1249	20.0000
Chloroethane	Averaged	0.23826	0.24241	0.1000	1.7433	20.0000
Chloroform	Averaged	0.49171	0.50726	0.2000	3.1619	20.0000
Chloromethane	Averaged	0.59722	0.50024	0.1000	-16.2385	20.0000
Cyclohexane	Averaged	0.51145	0.56838	0.1000	11.1308	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.09604	0.11766	0.0500	22.5115	20.0000
Dibromochloromethane	Averaged	0.32117	0.36623	0.1000	14.0322	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.26453	0.30658	0.1000	15.8968	20.0000
1,2-Dichlorobenzene	Averaged	1.51306	1.59994	0.4000	5.7419	20.0000
1,3-Dichlorobenzene	Averaged	1.72094	1.73404	0.6000	0.7608	20.0000
1,4-Dichlorobenzene	Averaged	1.72696	1.73669	0.5000	0.5633	20.0000
Dichlorodifluoromethane	Averaged	0.39941	0.34524	0.1000	-13.5611	20.0000
1,1-Dichloroethane	Averaged	0.51166	0.53233	0.2000	4.0391	20.0000
1,2-Dichloroethane	Averaged	0.35057	0.37257	0.1000	6.2766	20.0000
1,1-Dichloroethene	Averaged	0.23144	0.25926	0.1000	12.0193	20.0000
cis-1,2-Dichloroethene	Averaged	0.27485	0.29431	0.1000	7.0801	20.0000
trans-1,2-Dichloroethene	Averaged	0.26394	0.27841	0.1000	5.4834	20.0000
1,2-Dichloropropane	Averaged	0.26321	0.28073	0.1000	6.6565	20.0000
cis-1,3-Dichloropropene	Averaged	0.52751	0.59906	0.2000	13.5652	20.0000
trans-1,3-Dichloropropene	Averaged	0.43421	0.52236	0.1000	20.3026	20.0000
Ethylbenzene	Averaged	0.56263	0.59660	0.1000	6.0381	20.0000
2-Hexanone	Averaged	0.18393	0.21687	0.0500	17.9074	20.0000
Isopropylbenzene (Cumene)	Averaged	1.94285	2.04063	0.1000	5.0330	20.0000
Methyl acetate	Averaged	0.16591	0.16021	0.1000	-3.4343	20.0000
Methylcyclohexane	Averaged	0.40462	0.47341	0.1000	16.9992	20.0000
Methylene Chloride	Averaged	0.28548	0.25660	0.1000	-10.1183	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.25854	0.31687	0.0500	22.5600	20.0000
Methyl-tert-butyl ether	Averaged	0.63569	0.68172	0.1000	7.2411	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9458855CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 03/20/2016 Time: 14:27

Instrument ID: 50MV1B GC Column: Col 1 Init. Calib. Date(s): 03/15/2016 03/15/2016

Lab File ID: B032016.B\B01CCV.D Init. Calib. Time(s): 18:01 22:06

SDG No.: 50140212

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.14249	1.23211	0.3000	7.8444	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.60058	0.67259	0.3000	11.9898	20.0000
Tetrachloroethene	Averaged	0.43339	0.50268	0.2000	15.9864	20.0000
Toluene	Averaged	1.59237	1.68344	0.4000	5.7192	20.0000
1,2,4-Trichlorobenzene	Averaged	1.30392	1.35677	0.2000	4.0531	20.0000
1,1,1-Trichloroethane	Averaged	0.44365	0.48246	0.1000	8.7489	20.0000
1,1,2-Trichloroethane	Averaged	0.22176	0.26120	0.1000	17.7855	20.0000
Trichloroethene	Averaged	0.26723	0.30337	0.2000	13.5250	20.0000
Trichlorofluoromethane	Averaged	0.47995	0.47878	0.1000	-0.2427	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.28975	0.33231	0.1000	14.6896	20.0000
Vinyl chloride	Averaged	0.45861	0.44800	0.1000	-2.3126	20.0000
m&p-Xylene	Averaged	0.70433	0.75272	0.1000	6.8703	20.0000
o-Xylene	Averaged	0.68945	0.72599	0.3000	5.3003	20.0000
4-Bromofluorobenzene (S)	Averaged	0.45389	0.48894	0.1000	7.7217	20.0000
Dibromofluoromethane (S)	Averaged	0.25964	0.24977	0.1000	-3.8015	20.0000
Toluene-d8 (S)	Averaged	1.29827	1.34779	0.1000	3.8141	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d
Lab Smp Id: 8260-ICV,117048:0 Client Smp ID: 8260-ICV,117048:0
Inj Date : 16-MAR-2016 00:44
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-icv,117048:0
Misc Info : 87938
Comment   :
Method   : \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a8260_a_c.m
Meth Date : 16-Mar-2016 10:43 gmccreary Quant Type: ISTD
Cal Date : 15-MAR-2016 21:49 Cal File: a08cal.d
Als bottle: 49 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-GRMXP

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.916	0.917	(0.217)	148932	56.5035	56.5	
2 Chloromethane	50	0.994	0.995	(0.236)	183750	53.6321	53.6	
3 Vinyl Chloride	62	1.046	1.042	(0.248)	159754	53.8668	53.9	
4 Bromomethane	94	1.193	1.189	(0.283)	54851	62.1357	62.1	
5 Chloroethane	64	1.240	1.236	(0.294)	73618	46.3509	46.4	
6 Trichlorofluoromethane	101	1.350	1.351	(0.320)	188714	55.6896	55.7	
7 Diethyl ether	74	1.480	1.476	(0.351)	65300	76.0771	76.1(R)	
8 1,2-dichlorotrifluoroethane	67	1.496	1.497	(0.355)	128439	53.7805	53.8	
9 Acrolein	56	1.554	1.555	(0.369)	265287	1397.00	1400	
10 1,1,2trichlorotrifluoroethane	101	1.606	1.602	(0.381)	108057	51.7591	51.8	
11 1,1-Dichloroethene	96	1.611	1.607	(0.382)	91211	56.2247	56.2	
12 Acetone	43	1.622	1.623	(0.385)	98659	232.438	232	
13 Iodomethane	142	1.700	1.701	(0.403)	96847	87.3611	87.4	
14 Carbon Disulfide	76	1.747	1.748	(0.414)	287684	50.5616	50.6	
15 Methyl Acetate	43	1.794	1.790	(0.426)	57168	47.9722	48.0	
16 Acetonitrile	39	1.810	1.806	(0.429)	273455	58.2135	58.2	
17 allyl chloride	41	1.810	1.806	(0.429)	359818	118.731	119	
18 Methylene Chloride	84	1.888	1.884	(0.448)	91640	49.1376	49.1	
19 tert-Butyl Alcohol	59	1.925	1.926	(0.457)	25108	151.534	152(QR)	
20 Acrylonitrile	53	2.024	2.026	(0.480)	99440	203.254	203	
21 Methyl-tert-butyl ether	73	2.045	2.046	(0.485)	237736	52.0494	52.0	
22 1,2-Dichloroethene (trans)	96	2.061	2.057	(0.489)	98222	53.9573	54.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	23 n-Hexane	57	2.239	2.240	(0.531)	154962	44.9273	44.9	
	24 Vinyl Acetate	43	2.359	2.355	(0.560)	701401	217.901	218	
	25 1,1-Dichloroethane	63	2.370	2.371	(0.562)	188772	52.1202	52.1	
	26 Chloroprene	53	2.422	2.423	(0.575)	192649	55.2577	55.2	
	27 Ethyl Acetate	88	2.427	2.423	(0.576)	94212		(Q)	
	28 2-Butanone	43	2.835	2.836	(0.673)	172866	250.132	250	
	29 1,2-Dichloroethene (cis)	96	2.851	2.852	(0.676)	104761	52.2485	52.2	
	30 2,2-Dichloropropane	77	2.856	2.857	(0.677)	144681	53.9201	53.9	
	31 Propionitrile	54	2.898	2.894	(0.687)	9058	48.8343	48.8(Q)	
	32 Methacrylonitrile	41	3.044	3.045	(0.722)	177119	196.451	196	
	33 Bromochloromethane	49	3.091	3.087	(0.733)	81285	56.4655	56.5	
	34 Tetrahydrofuran	42	3.102	3.103	(0.736)	20922	53.4737	53.5	
	35 Chloroform	83	3.201	3.202	(0.759)	178911	51.9172	51.9	
	36 isopropyl acetate	61	3.374	3.375	(0.800)	77603		(Q)	
	37 1,1,1-Trichloroethane	97	3.374	3.375	(0.800)	167376	54.6210	54.6	
$	38 Dibromofluoromethane (S)	113	3.379	3.380	(0.802)	101523	49.7554	49.8	
	150 n-butyl chloride	56	3.525	3.527	(0.836)	229394	52.6148	52.6	
	39 Cyclohexane	56	3.457	3.453	(0.820)	185136	51.1957	51.2	
	40 Carbon Tetrachloride	117	3.562	3.558	(0.845)	143339	56.4397	56.4	
	41 1,1-Dichloropropene	75	3.567	3.568	(0.846)	141149	53.1265	53.1	
	42 Benzene	78	3.813	3.814	(0.904)	388451	52.6319	52.6	
	43 1,2-Dichloroethane	62	3.907	3.903	(0.927)	133891	52.0786	52.1	
	44 Isobutyl alcohol	43	3.928	3.976	(0.932)	853879	556.999	557(Q)	
	45 2,2,4-Trimethylpentane	57	3.986	3.976	(0.945)	396545	49.3514	49.4	
*	46 Fluorobenzene (IS)	96	4.216	4.217	(1.000)	405635	50.0000		
	47 Trichloroethene	95	4.666	4.667	(1.107)	106021	52.3330	52.3	
	48 Methylcyclohexane	55	4.927	4.928	(1.169)	148714	50.0578	50.0	
	49 1,2-Dichloropropane	63	4.974	4.975	(1.180)	98103	51.6530	51.6	
	52 1,4-Dioxane	88	5.084	5.085	(1.206)	14959	1037.45	1040	
	50 Dibromomethane	93	5.074	5.075	(1.203)	53070	53.5727	53.6	
	51 Methyl methacrylate	69	5.089	5.090	(1.207)	51746	51.9671	52.0	
	53 Bromodichloromethane	83	5.298	5.300	(1.257)	128855	51.3223	51.3	
	54 2-Chloroethyl vinyl ether	63	5.649	5.650	(0.764)	42006	56.6359	56.6	
	55 cis-1,3-Dichloropropene	75	5.795	5.797	(0.784)	143944	54.6351	54.6	
	56 4-Methyl-2-Pentanone	43	5.968	5.969	(0.808)	403236	277.131	277	
$	57 Toluene-d8	98	6.067	6.068	(0.821)	387788	50.5652	50.6	
	58 Toluene	91	6.140	6.142	(0.831)	422056	49.7570	49.8	
	59 trans-1,3-Dichloropropene	75	6.428	6.429	(0.870)	119335	54.8215	54.8	
	60 Ethyl Methacrylate	69	6.507	6.508	(0.880)	427777	215.901	216	
	61 1,1,2-Trichloroethane	83	6.616	6.612	(0.895)	62728	53.9283	53.9	
	62 Tetrachloroethene	166	6.658	6.659	(0.901)	116604	49.3613	49.4	
	63 1,3-Dichloropropane	76	6.758	6.754	(0.914)	120938	52.8255	52.8	
	64 2-Hexanone	43	6.820	6.822	(0.923)	280662	268.241	268	
	65 Dibromochloromethane	129	6.941	6.937	(0.939)	92715	55.3581	55.4	
	66 1,2-Dibromoethane	107	7.024	7.020	(0.950)	74287	53.6374	53.6	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.392	(1.000)	292929	50.0000		
	68 Chlorobenzene	112	7.411	7.413	(1.003)	266762	49.7001	49.7	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.491	(1.013)	99337	57.0363	57.0	
	70 Ethylbenzene	106	7.490	7.491	(1.013)	151240	50.9318	50.9	
	71 m&p-Xylene	106	7.589	7.590	(1.027)	379034	104.147	104	
	72 o-Xylene	106	7.851	7.852	(1.062)	186007	53.3284	53.3	
	73 Styrene	104	7.866	7.868	(1.064)	308145	53.4357	53.4	
	79 n-amyl acetate	70	7.992	8.202	(1.081)	275160		(Q)	
	74 Bromoform	173	7.987	7.988	(0.899)	61800	53.8103	53.8	

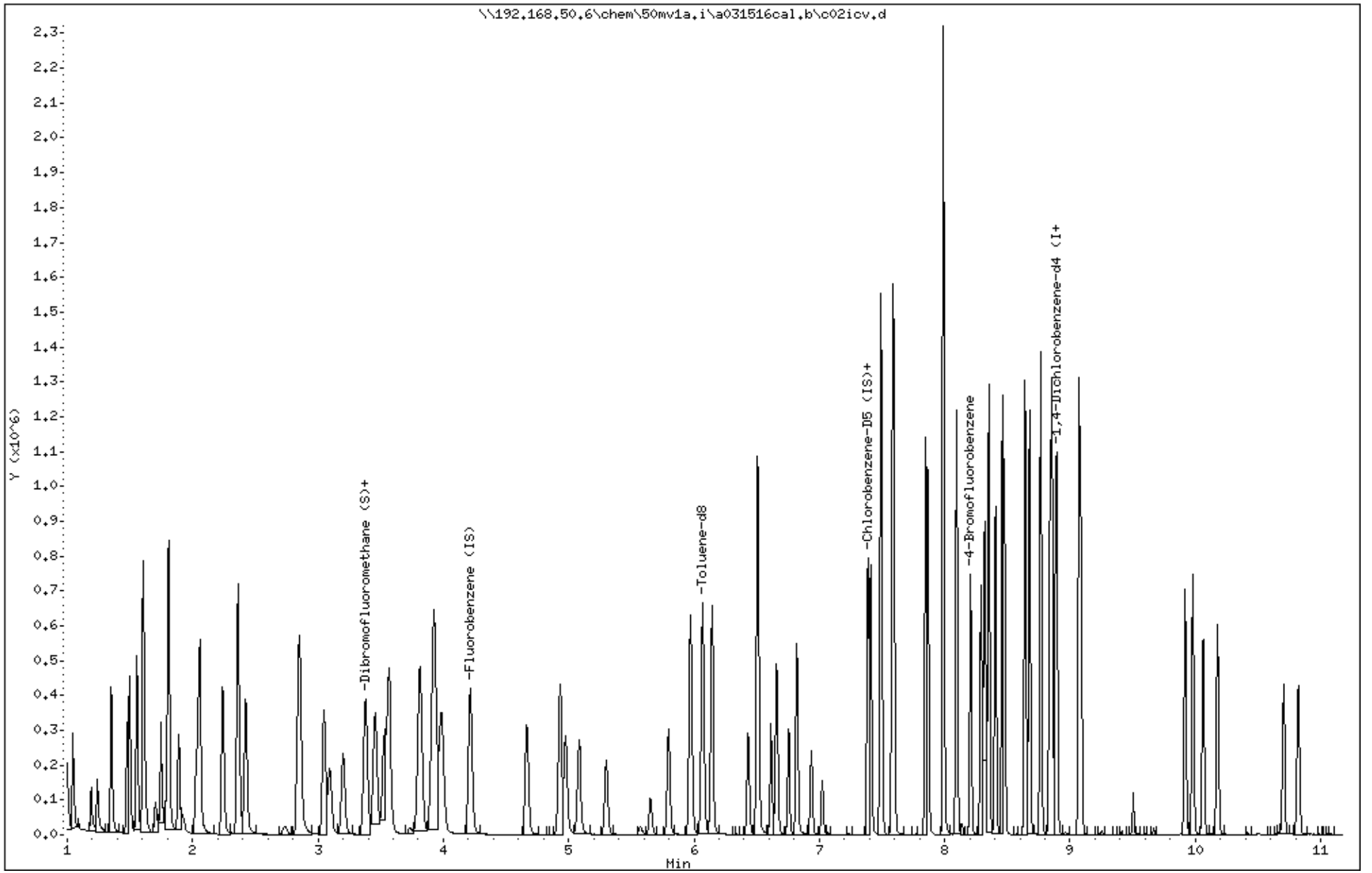
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	75 Isopropylbenzene	105	8.091	8.093	(1.095)	527980	56.9307	56.9	
$	76 4-Bromofluorobenzene	95	8.206	8.208	(1.110)	138446	51.2970	51.3	
	77 Bromobenzene	77	8.285	8.286	(1.121)	177024	53.8489	53.8	
	78 1,1,2,2-Tetrachloroethane	83	8.301	8.297	(0.934)	101058	54.9865	55.0	
	80 trans-1,4-Dichloro-2-butene	53	8.316	8.317	(1.125)	106596	219.507	220(Q)	
	81 1,2,3-Trichloropropane	110	8.327	8.328	(0.937)	28861	54.0891	54.1(Q)	
	82 n-Propylbenzene	91	8.353	8.354	(0.940)	622593	54.7337	54.7	
	83 2-Chlorotoluene	91	8.405	8.401	(0.946)	336809	51.5390	51.5	
	84 1,3,5-Trimethylbenzene	105	8.463	8.464	(0.952)	401266	50.7581	50.8	
	85 4-Chlorotoluene	126	8.478	8.480	(0.954)	120791	50.1801	50.2	
	86 tert-Butylbenzene	119	8.640	8.642	(0.972)	395665	52.9822	53.0	
	87 1,2,4-Trimethylbenzene	105	8.677	8.678	(0.976)	416628	50.7901	50.8	
	88 sec-Butylbenzene	105	8.766	8.767	(0.986)	594039	57.1883	57.2	
	89 1,3-Dichlorobenzene	146	8.839	8.840	(0.995)	239731	50.8194	50.8	
	90 p-Isopropyltoluene	119	8.855	8.856	(0.996)	454702	50.7521	50.8	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.882	(1.000)	155330	50.0000	(Q)	
	92 1,4-Dichlorobenzene	146	8.897	8.898	(1.001)	237481	48.8405	48.8	
	93 n-Butylbenzene	91	9.075	9.071	(1.021)	416587	50.5772	50.6	
	94 1,2-Dichlorobenzene	146	9.090	9.091	(1.023)	221281	50.4827	50.5	
	95 1,2-Dibromo-3-chloropropane	155	9.503	9.505	(1.069)	16591	57.5127	57.5	
	96 1,2,4-Trichlorobenzene	180	9.917	9.918	(1.116)	159207	47.2999	47.3	
	97 Hexachlorobutadiene	225	9.985	9.981	(1.124)	113977	50.5014	50.5	
	98 Naphthalene	128	10.063	10.064	(1.132)	346680	53.4683	53.5	
	99 1,2,3-Trichlorobenzene	180	10.178	10.179	(1.145)	151641	48.4299	48.4	
	100 2,methyl-naphthalene	142	10.701	10.702	(1.204)	176644	44.7791	44.8	
	101 1-methylnaphthalene	142	10.821	10.823	(1.218)	190452	51.5902	51.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d
Date : 16-MAR-2016 00:44
Client ID: 8260-ICV,117048:0
Sample Info: 8260-ICV,117048:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

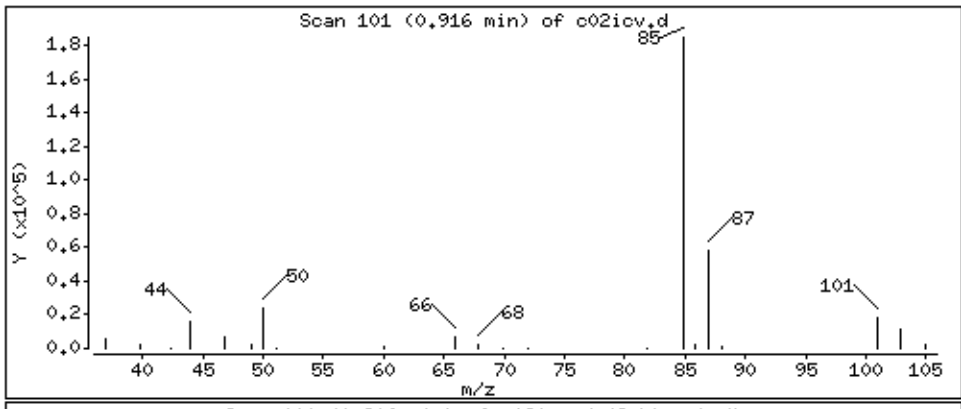
Operator: grm

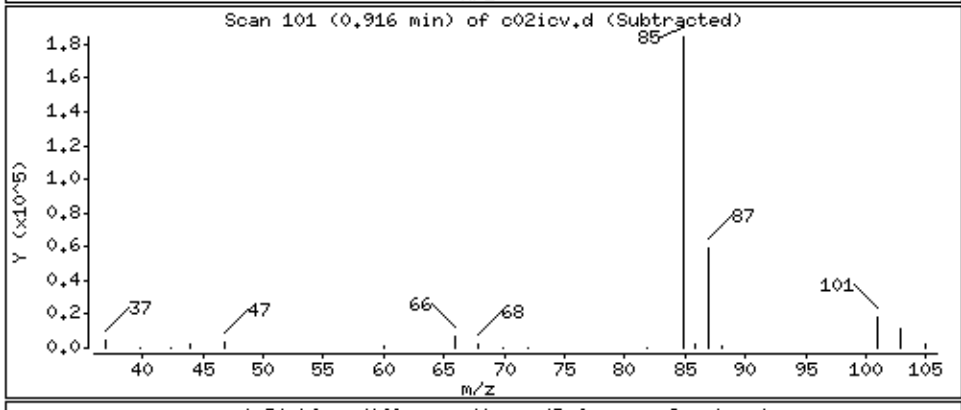
Column phase: DB-624

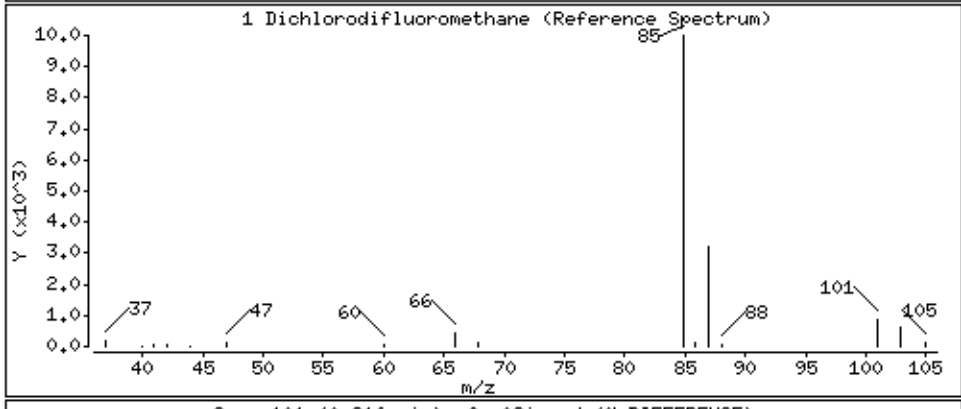
Column diameter: 0.18

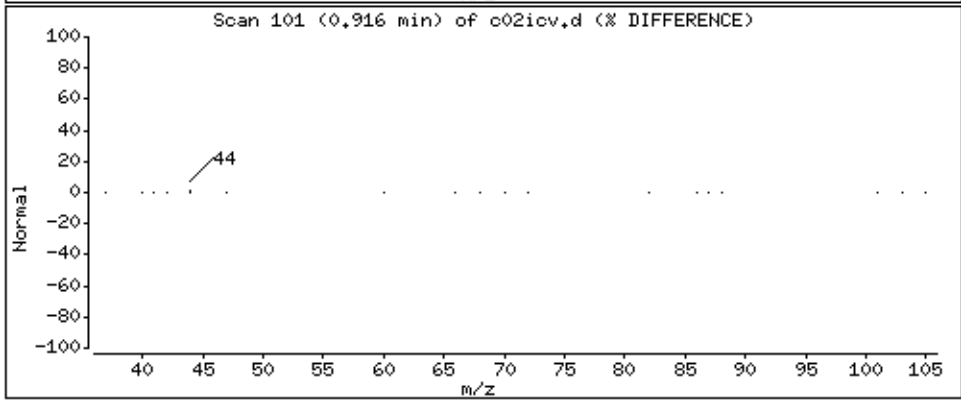
1 Dichlorodifluoromethane

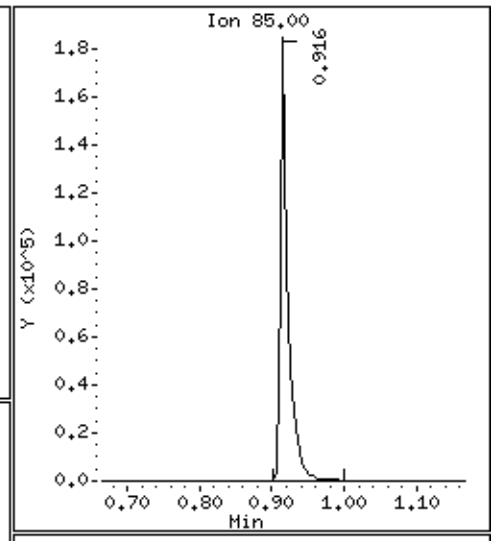
Concentration: 56.5 ppb

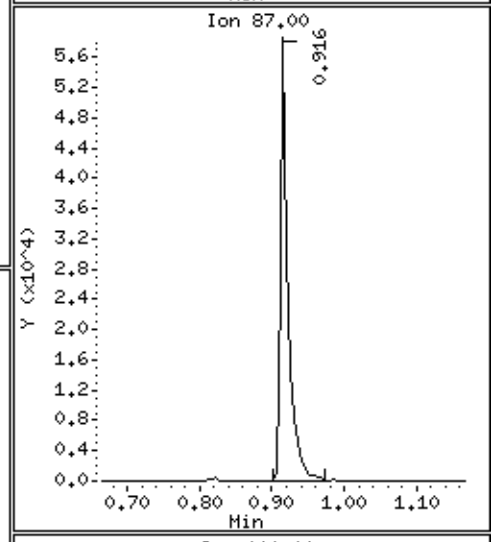


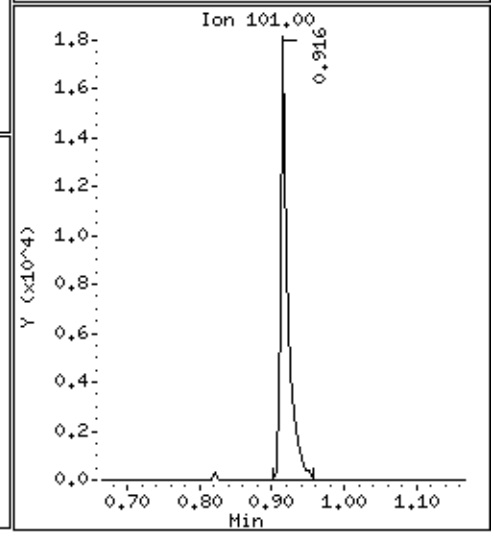












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

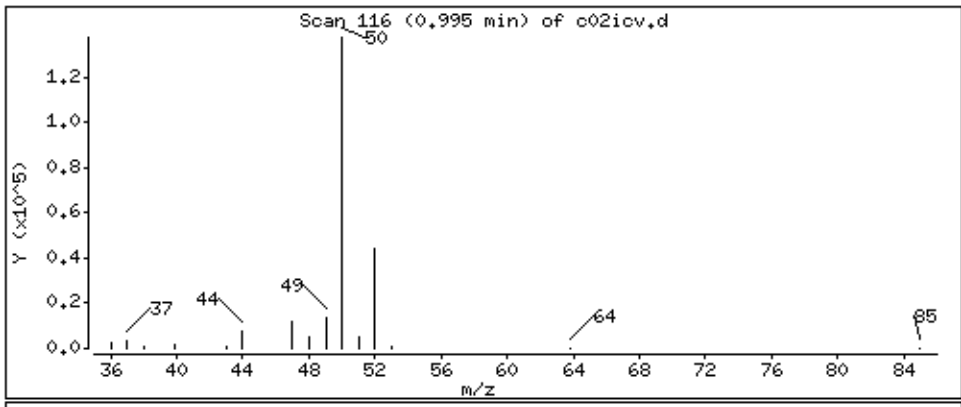
Operator: grm

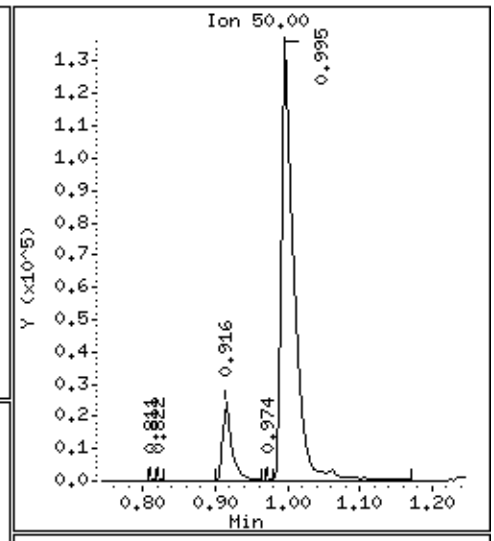
Column phase: DB-624

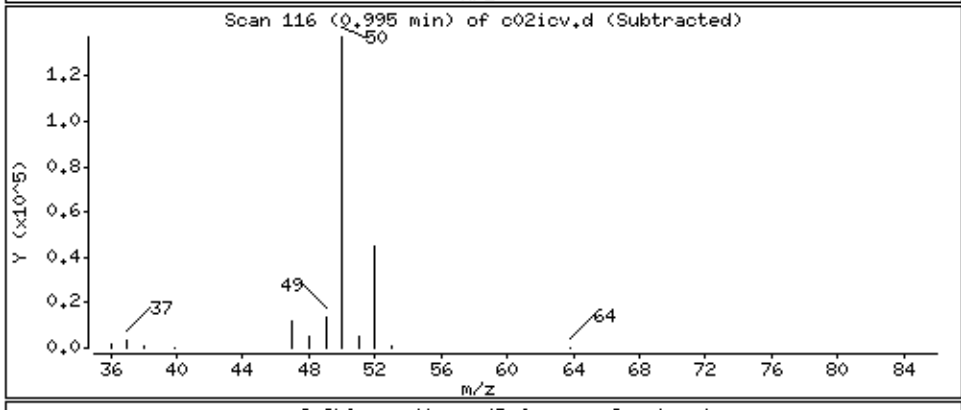
Column diameter: 0.18

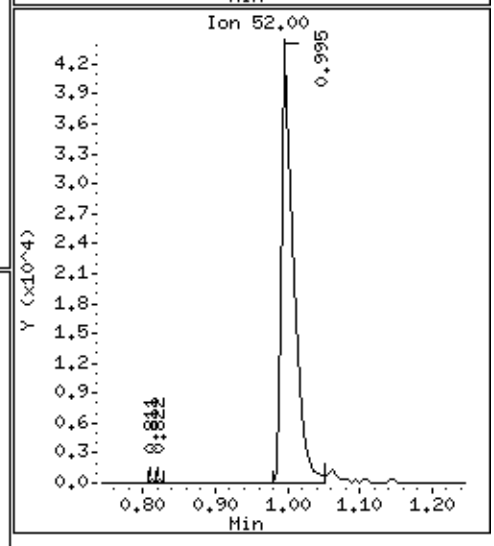
2 Chloromethane

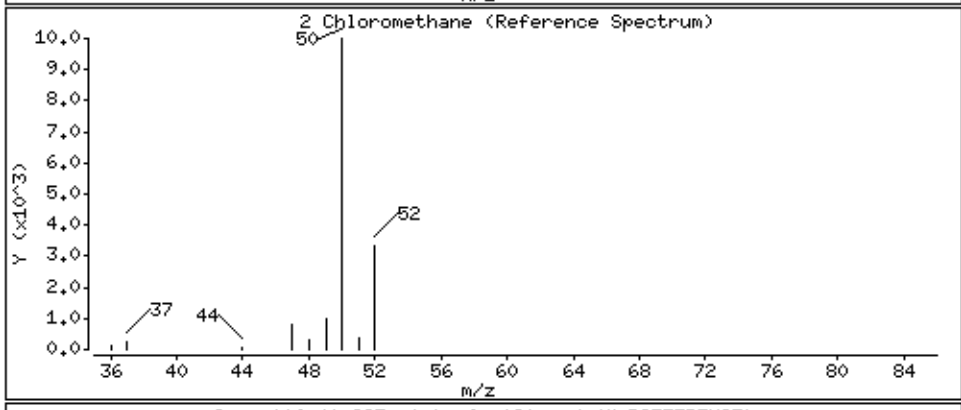
Concentration: 53.6 ppb

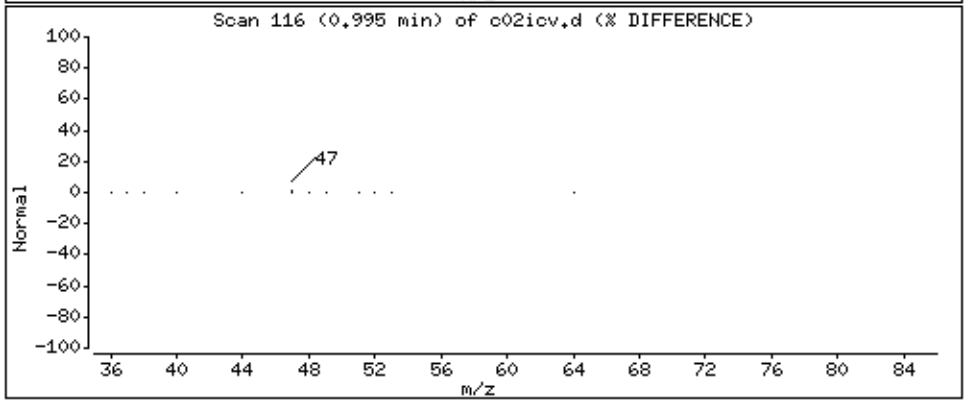












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

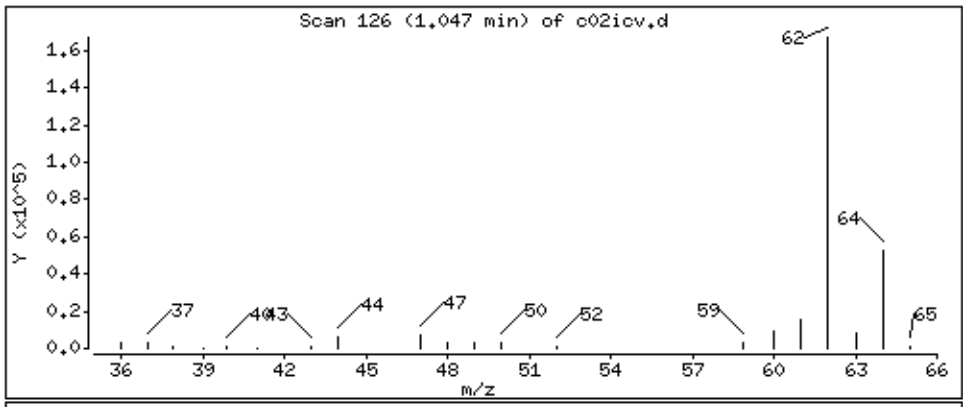
Operator: grm

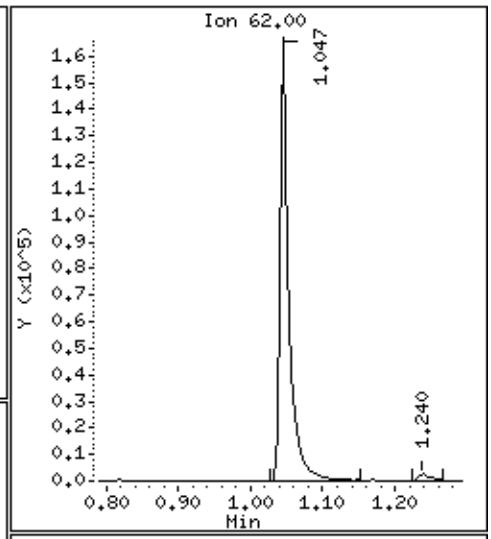
Column phase: DB-624

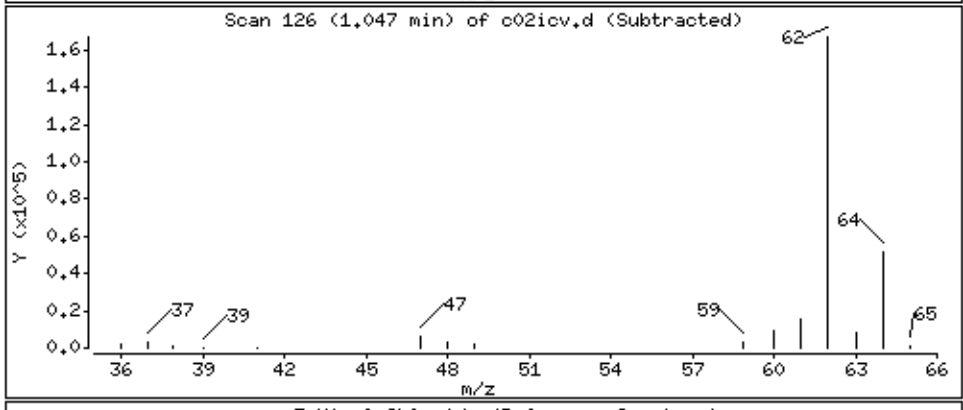
Column diameter: 0.18

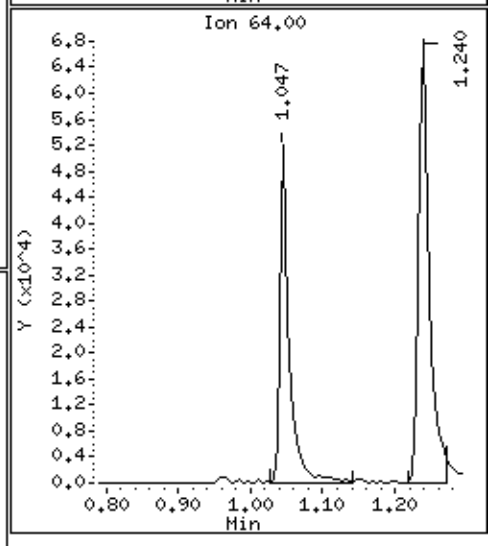
3 Vinyl Chloride

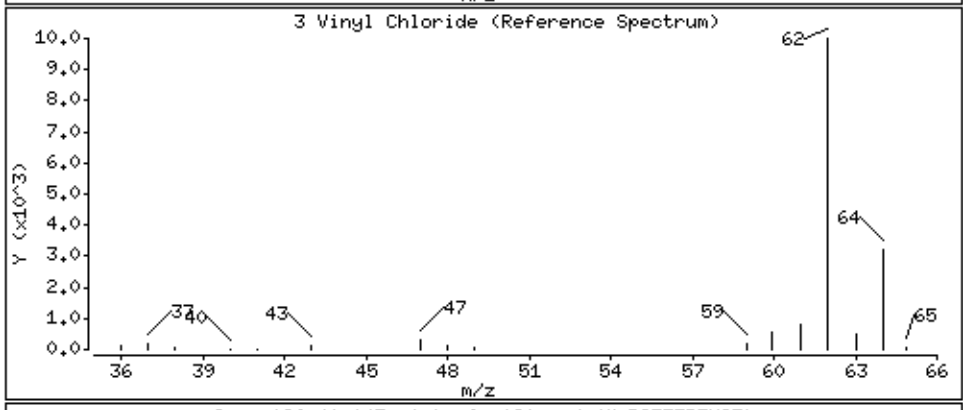
Concentration: 53.9 ppb

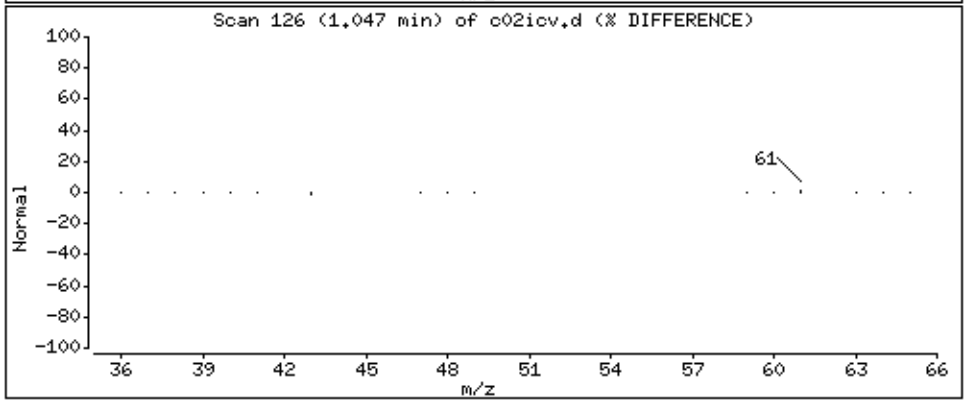












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

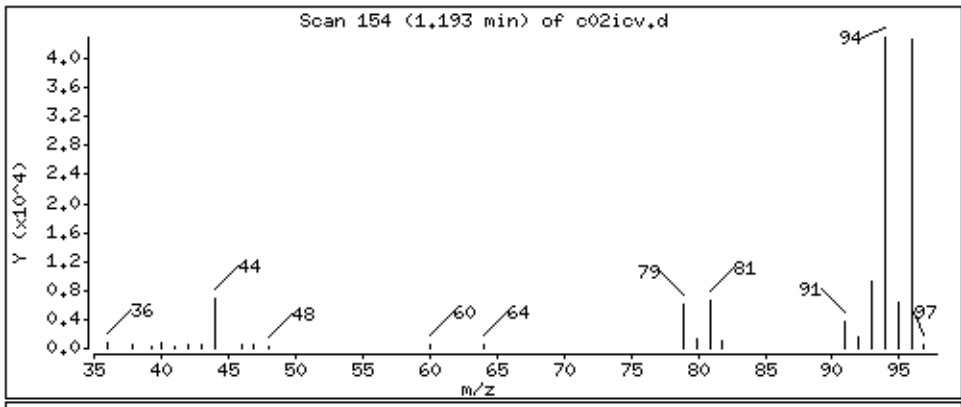
Operator: grm

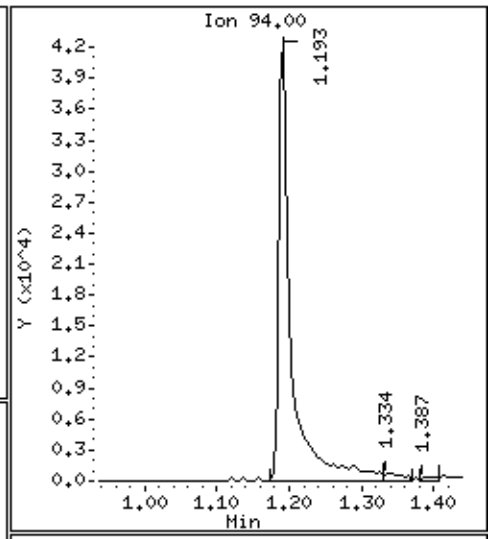
Column phase: DB-624

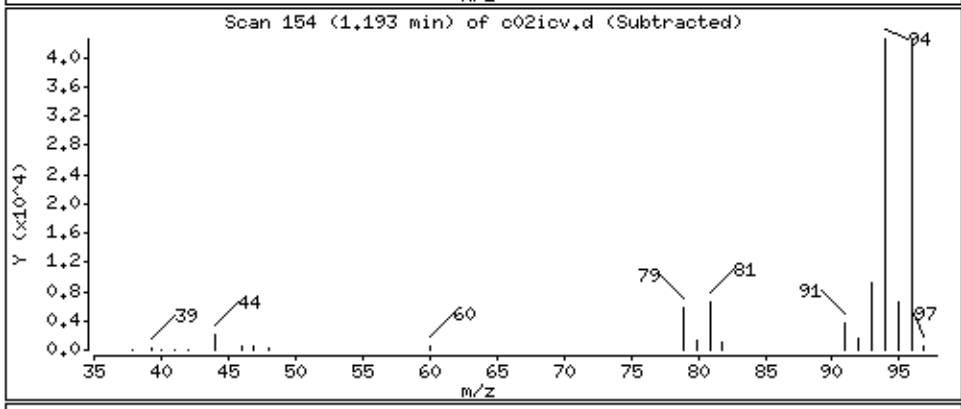
Column diameter: 0.18

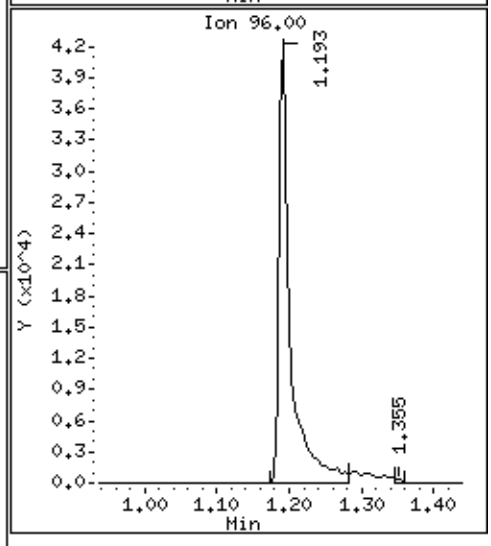
4 Bromomethane

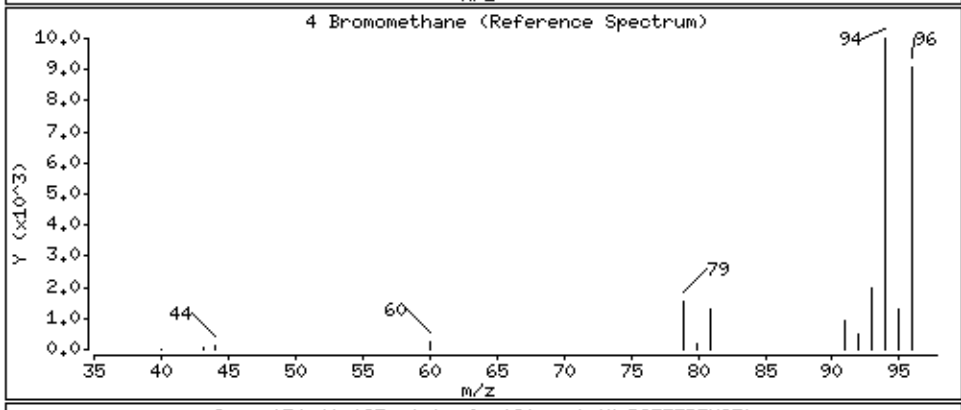
Concentration: 62.1 ppb

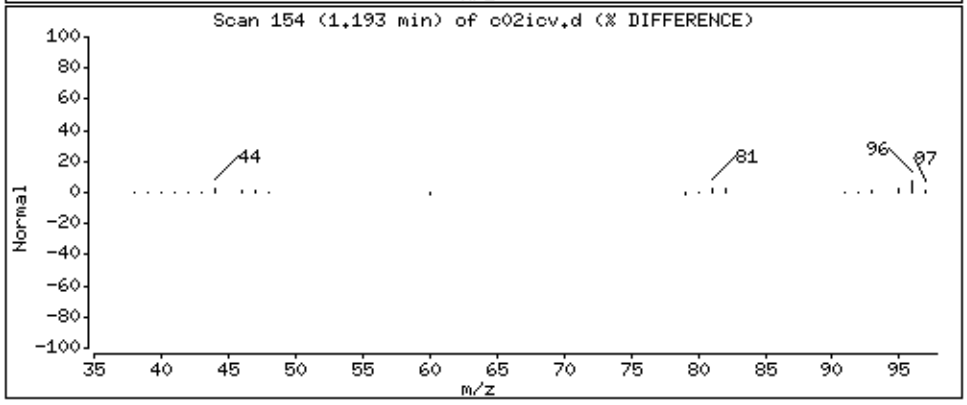












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

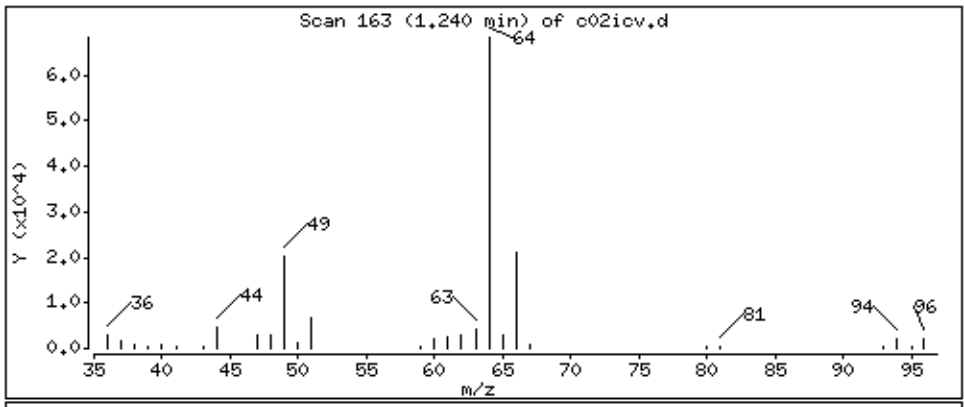
Operator: grm

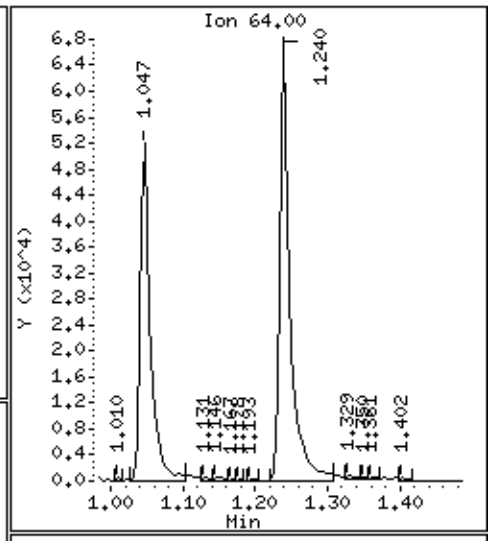
Column phase: DB-624

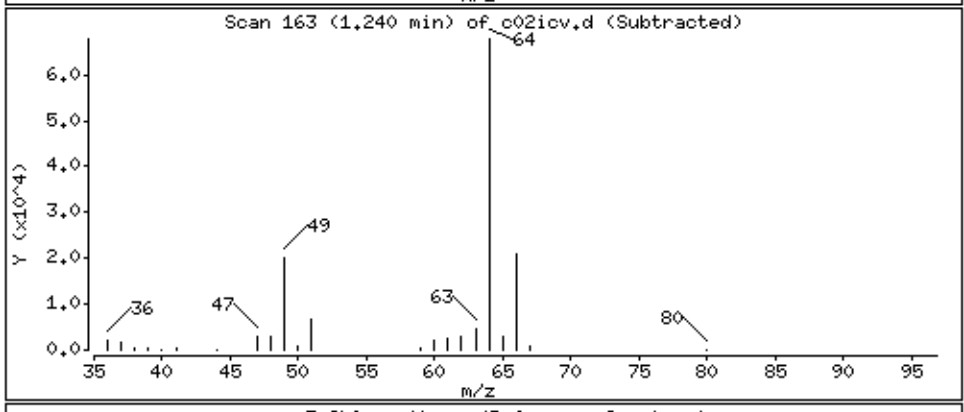
Column diameter: 0.18

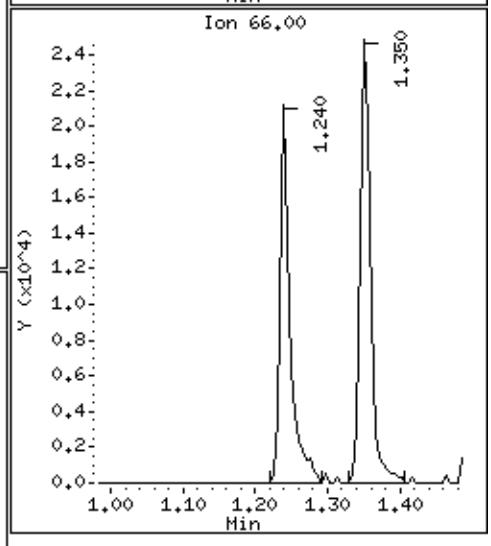
5 Chloroethane

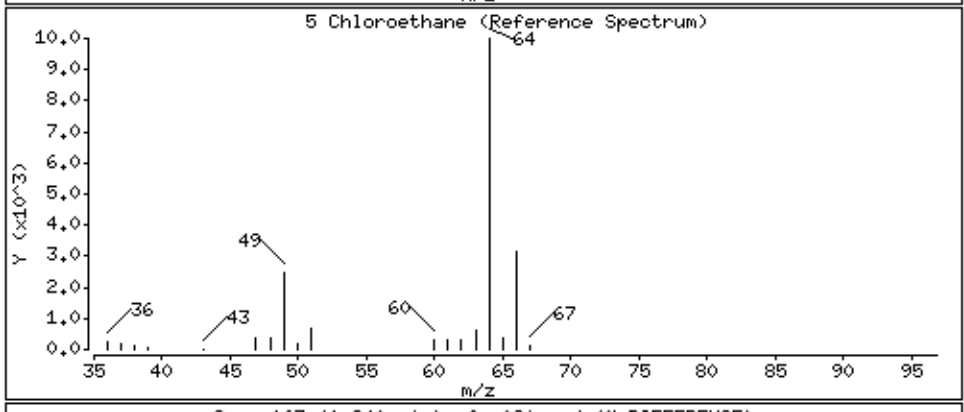
Concentration: 46.4 ppb

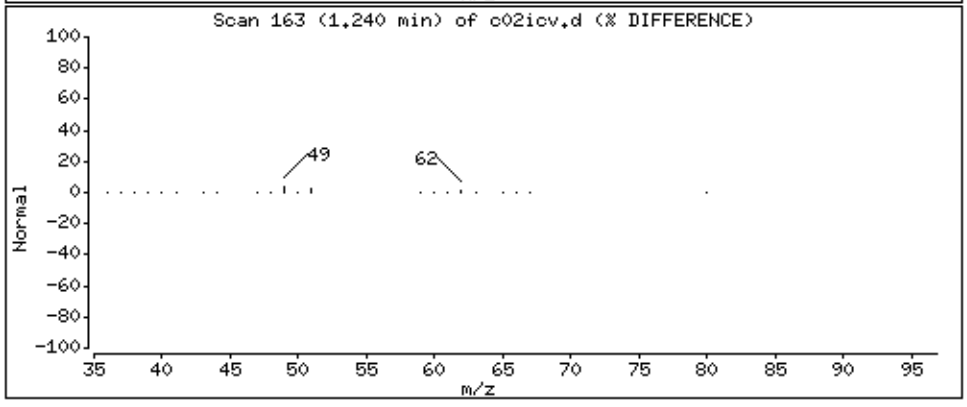












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

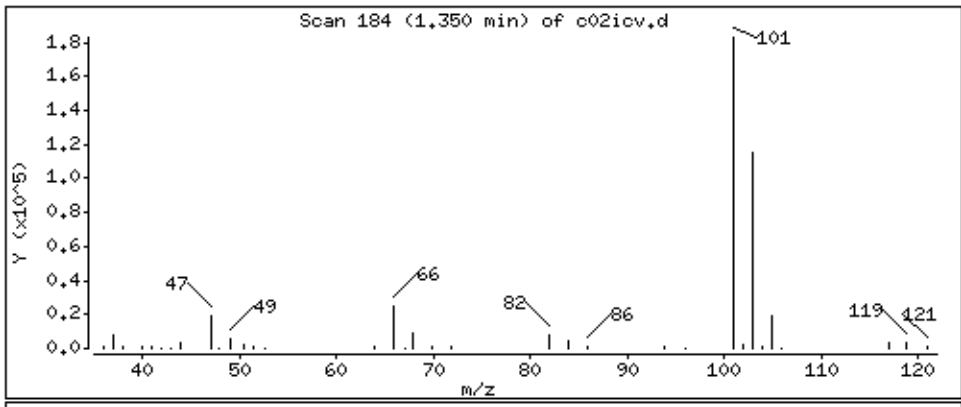
Operator: grm

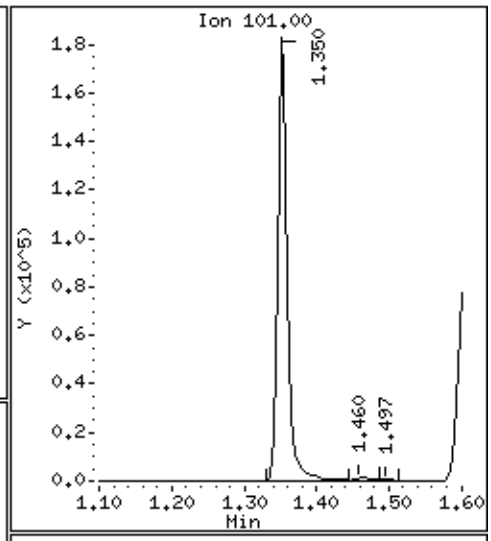
Column phase: DB-624

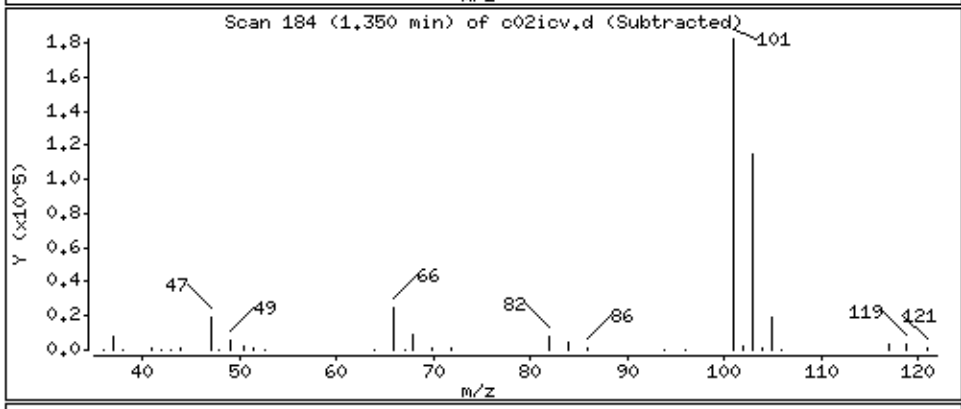
Column diameter: 0.18

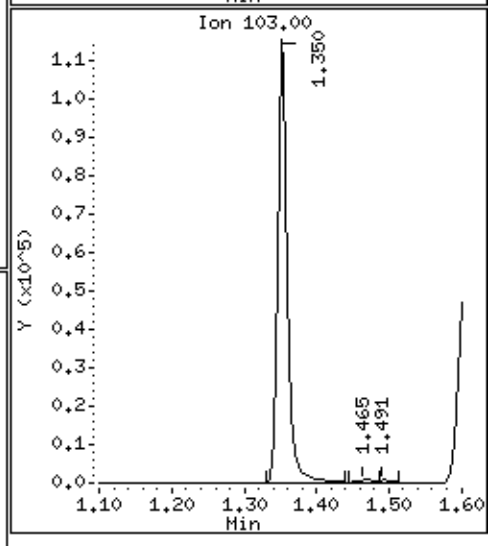
6 Trichlorofluoromethane

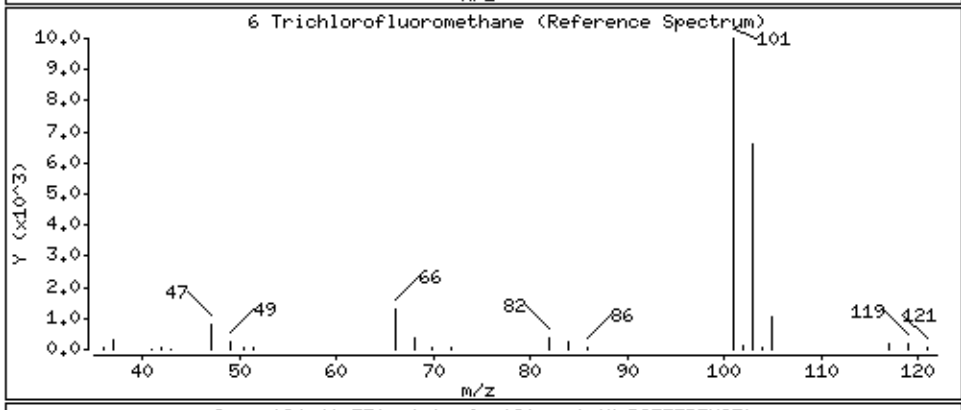
Concentration: 55.7 ppb

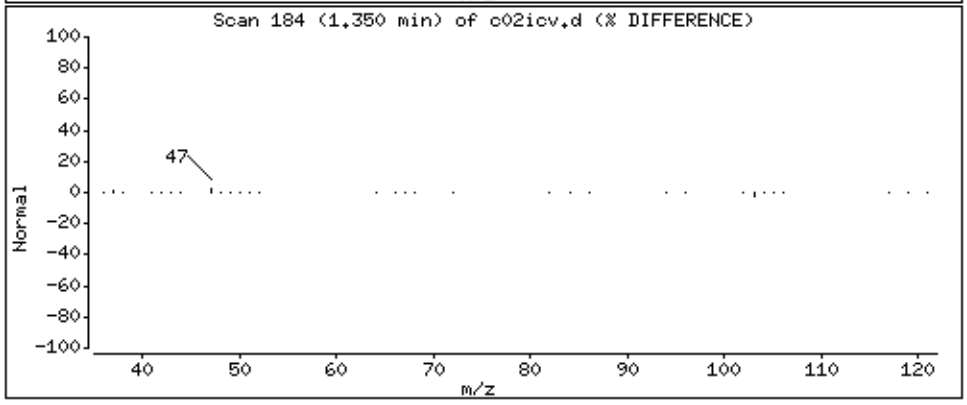












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 11

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

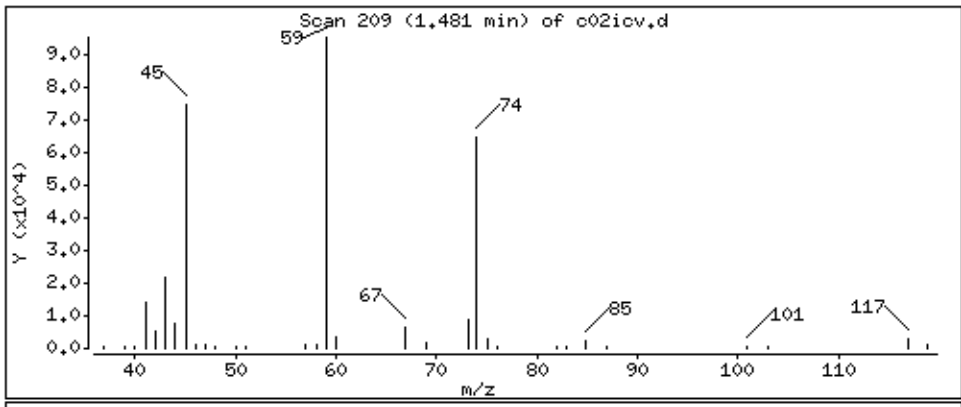
Operator: grm

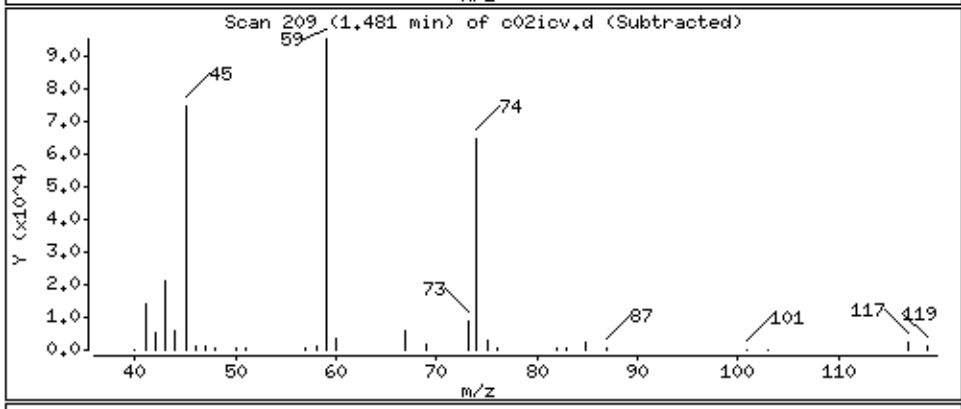
Column phase: DB-624

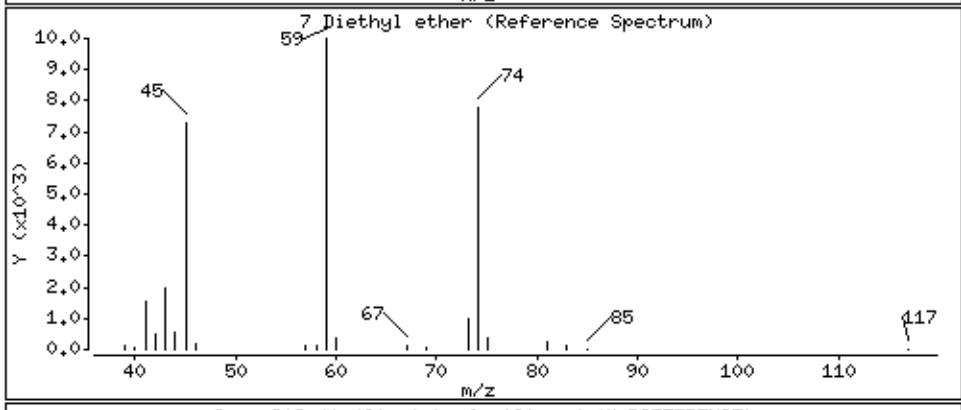
Column diameter: 0.18

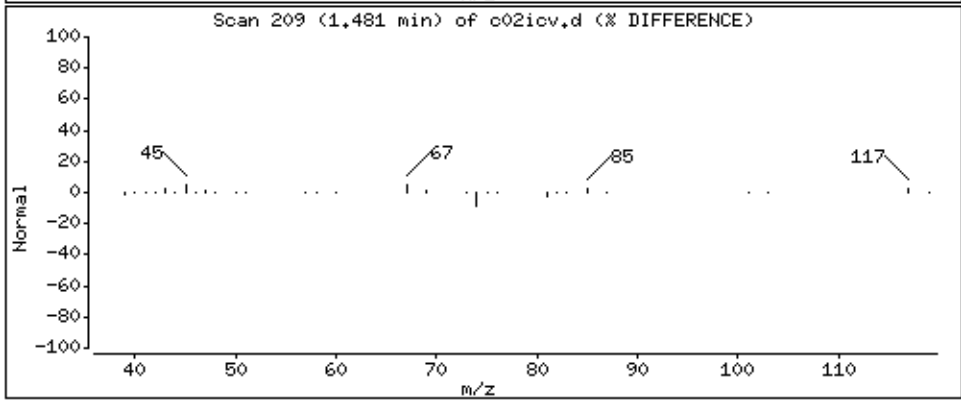
7 Diethyl ether

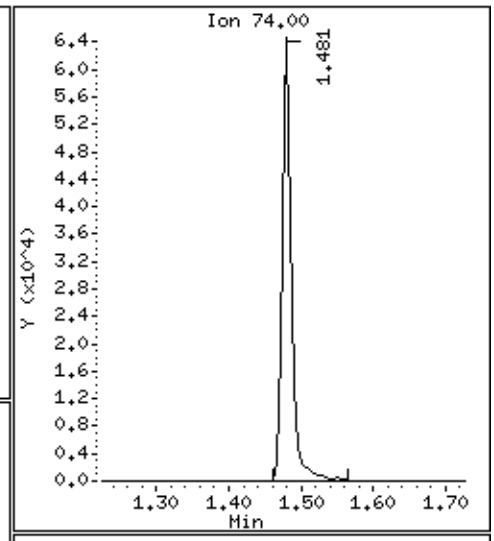
Concentration: 76.1 ppb

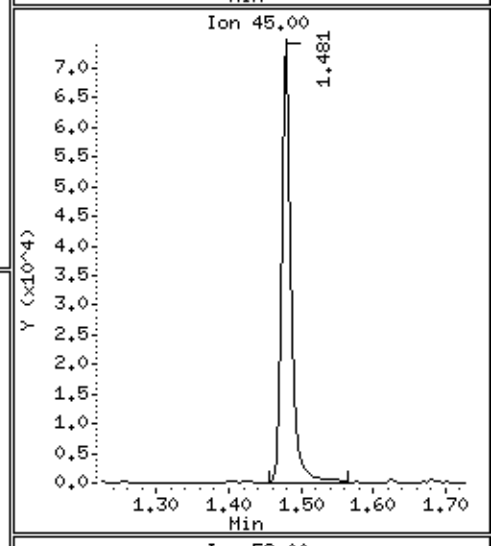


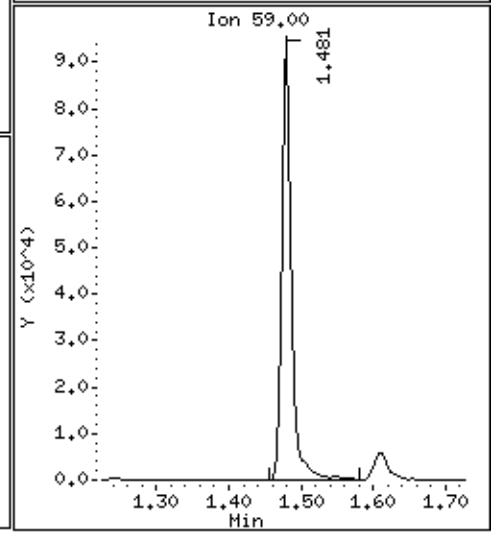












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

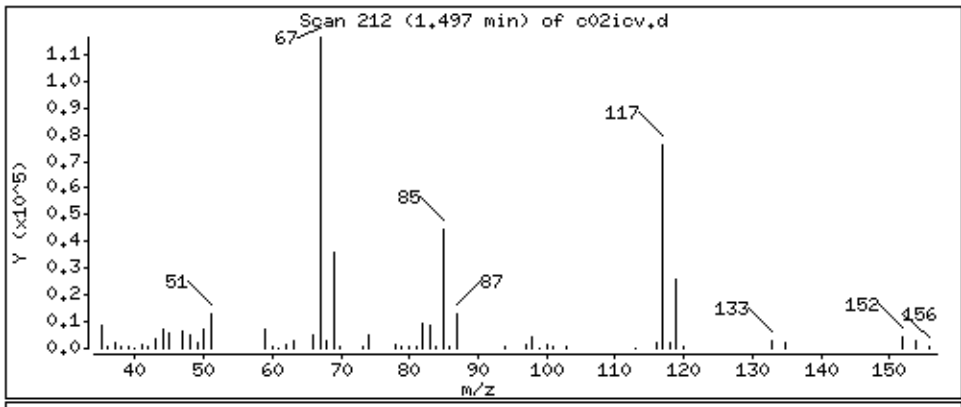
Operator: grm

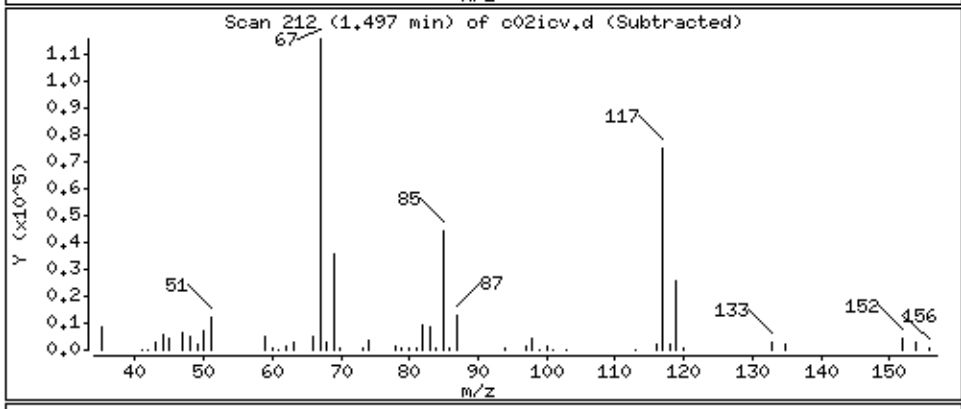
Column phase: DB-624

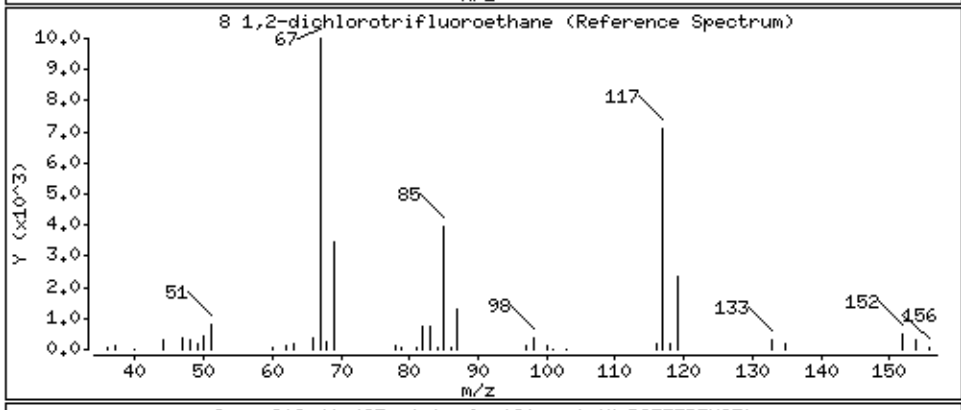
Column diameter: 0.18

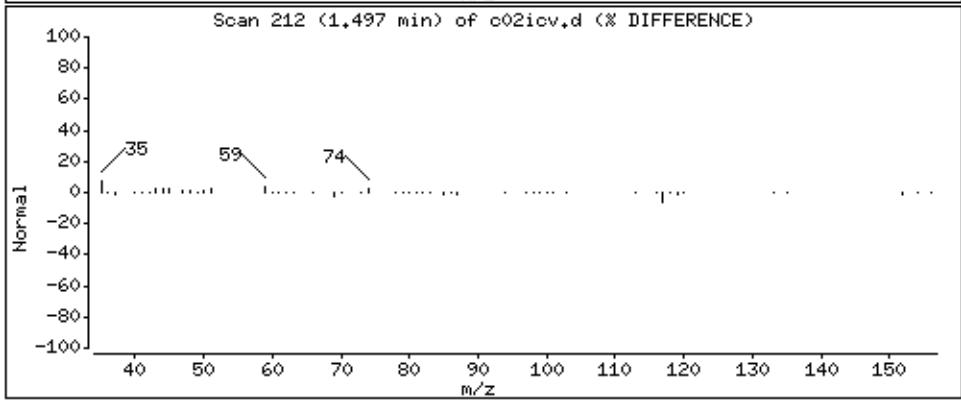
8 1,2-dichlorotrifluoroethane

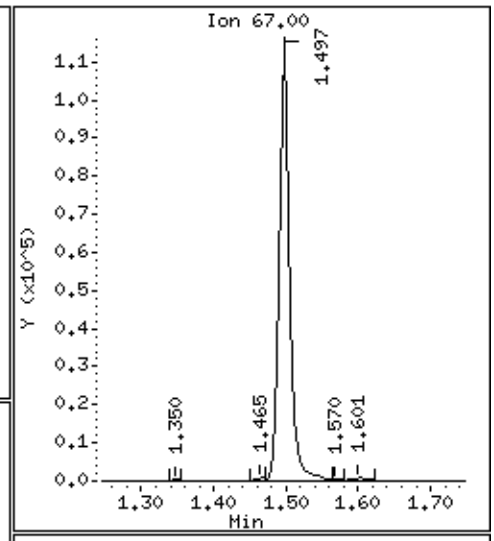
Concentration: 53.8 ppb

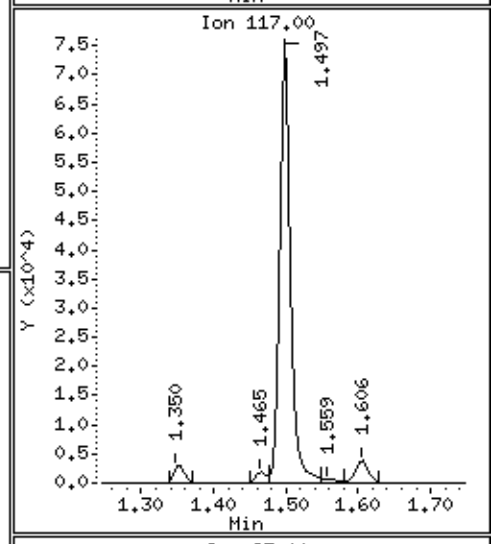


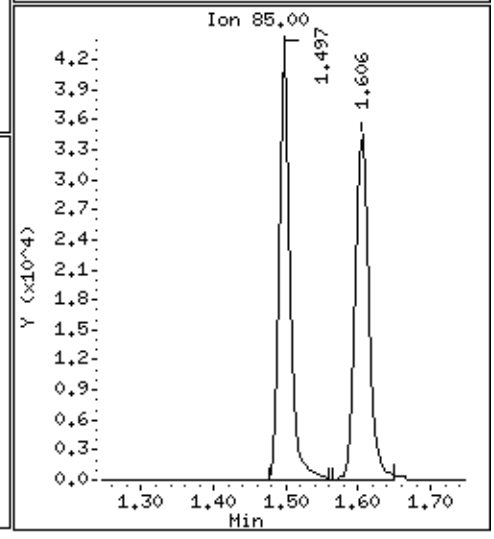












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

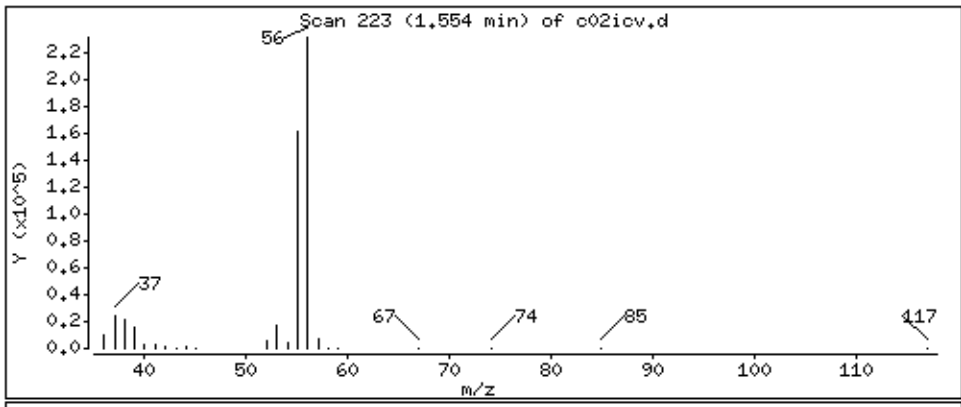
Operator: grm

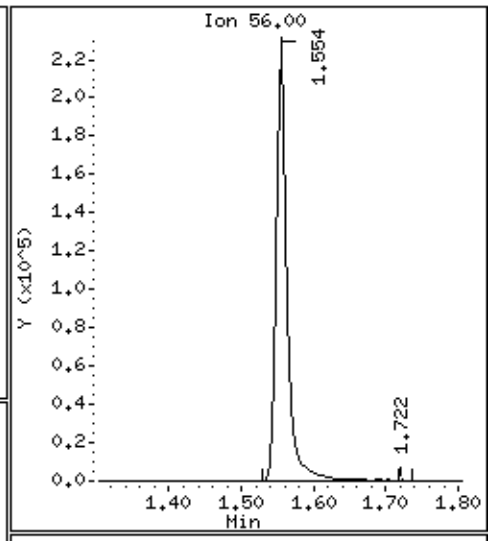
Column phase: DB-624

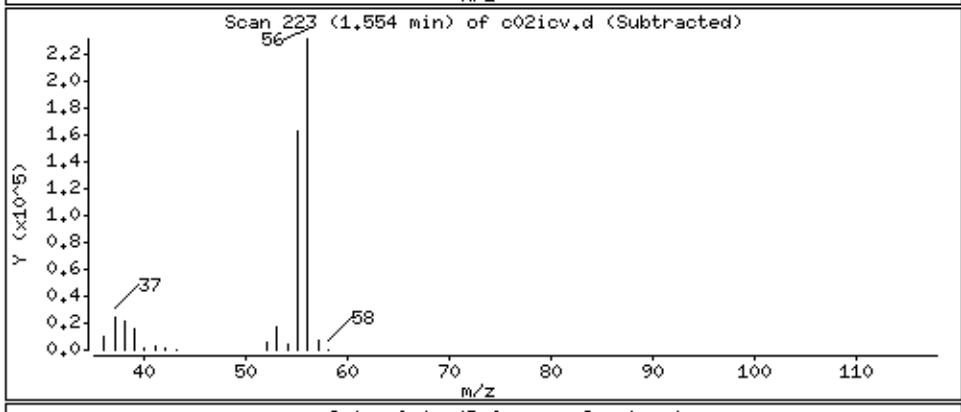
Column diameter: 0.18

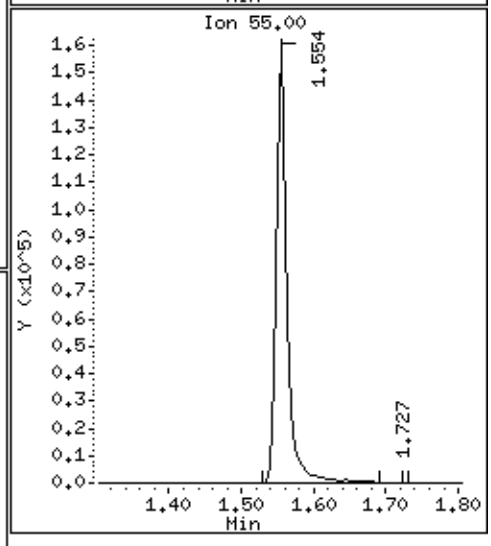
9 Acrolein

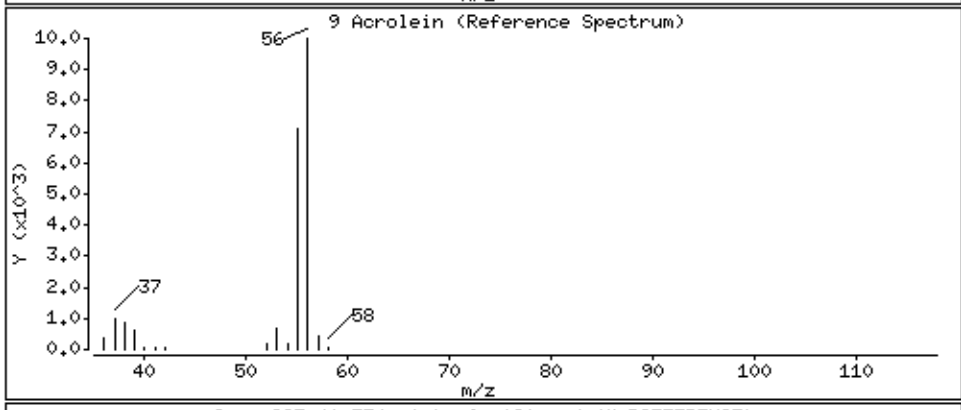
Concentration: 1400 ppb

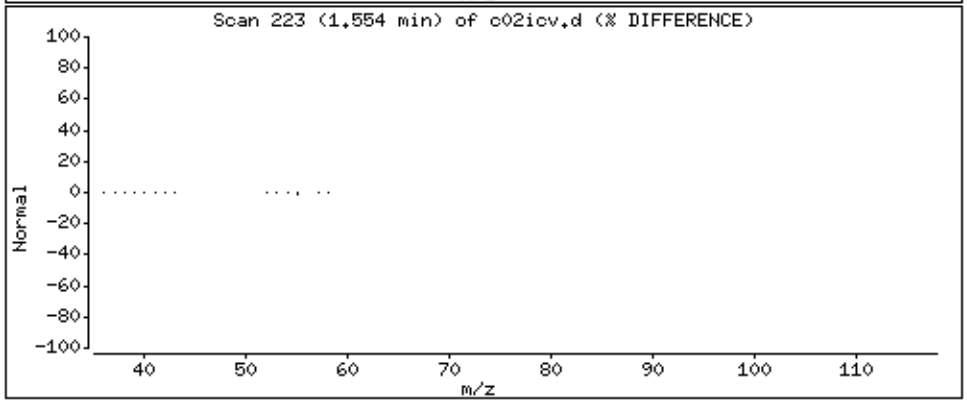












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

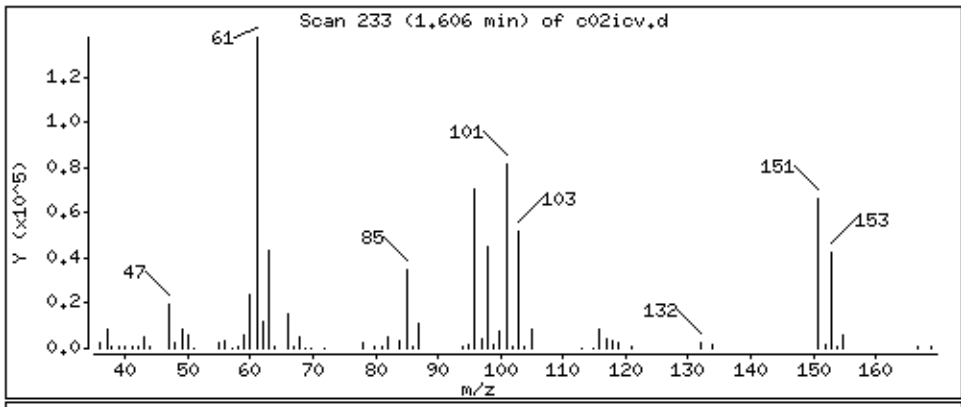
Operator: grm

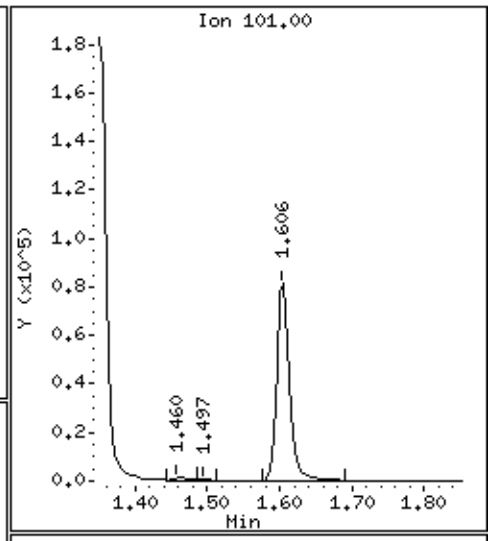
Column phase: DB-624

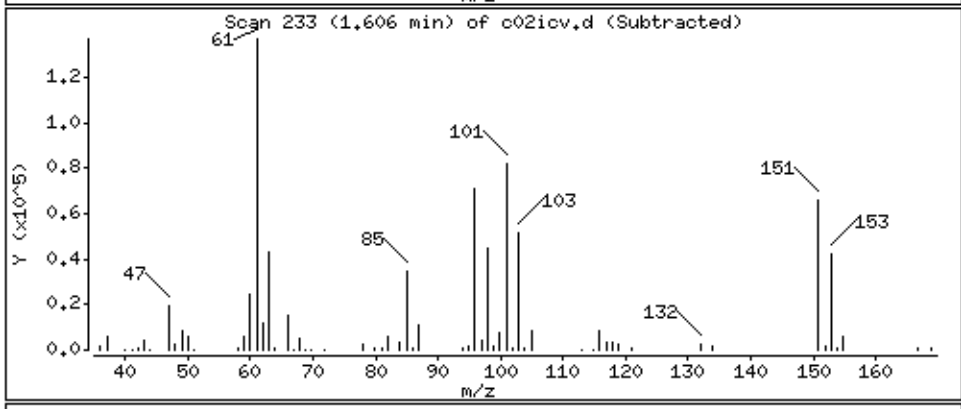
Column diameter: 0.18

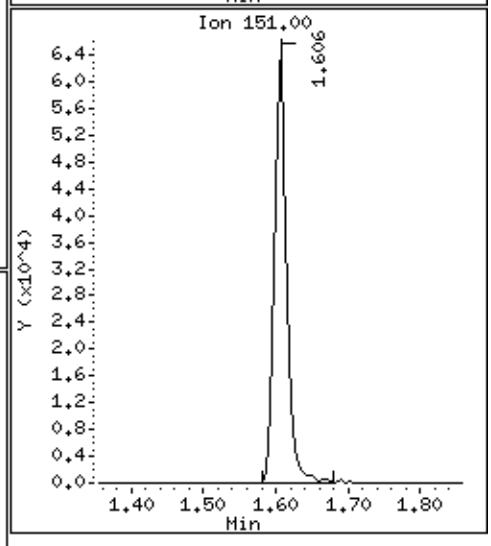
10 1,1,2trichlorotrifluoroethane

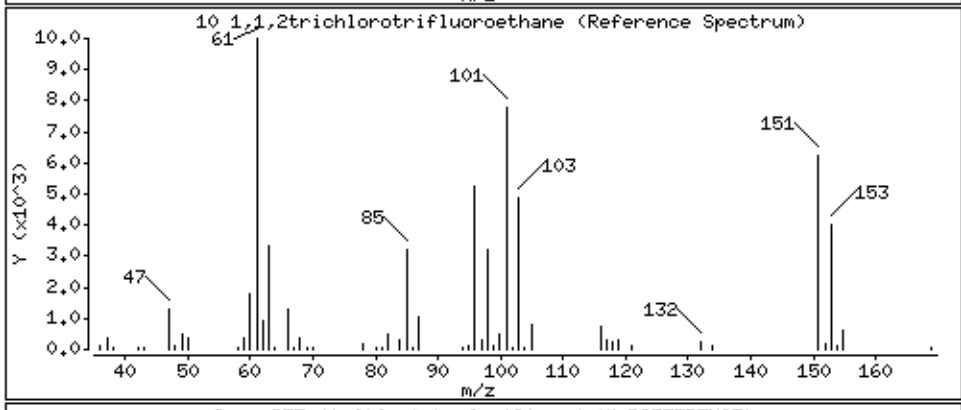
Concentration: 51.8 ppb

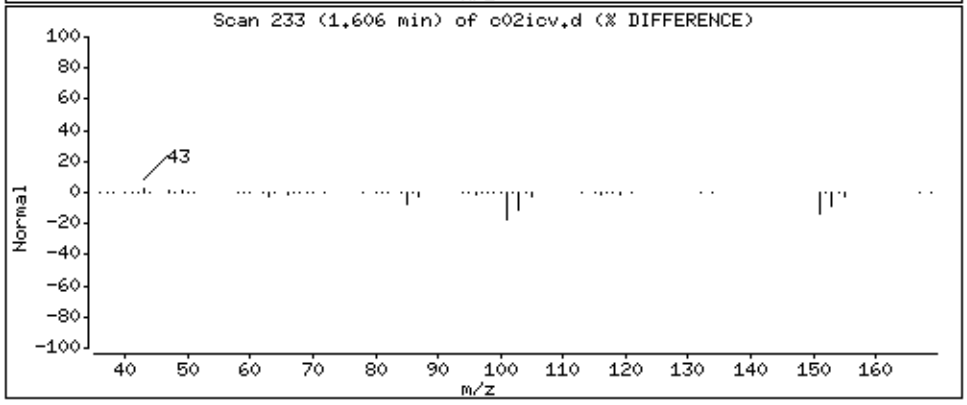












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

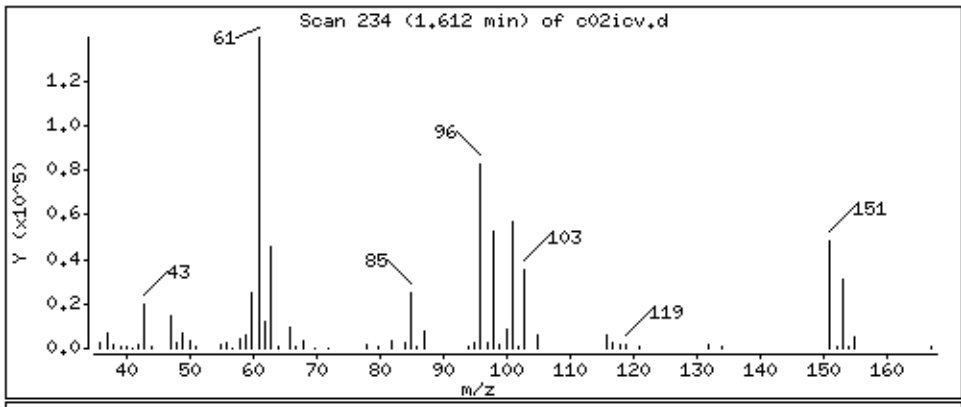
Operator: grm

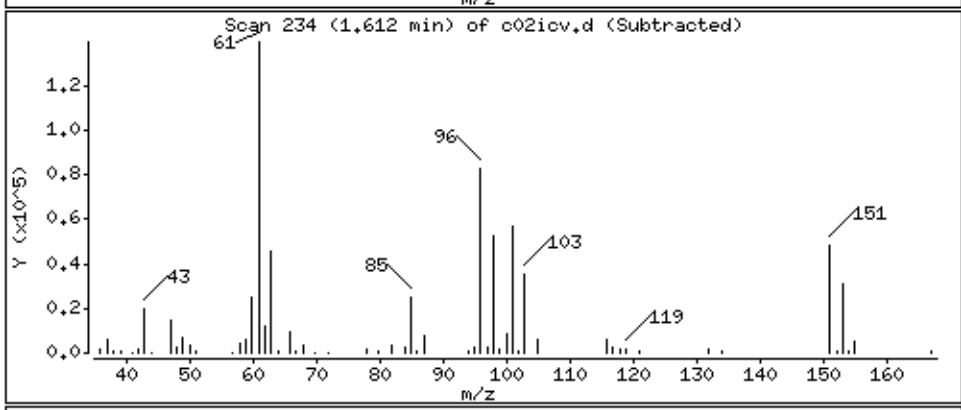
Column phase: DB-624

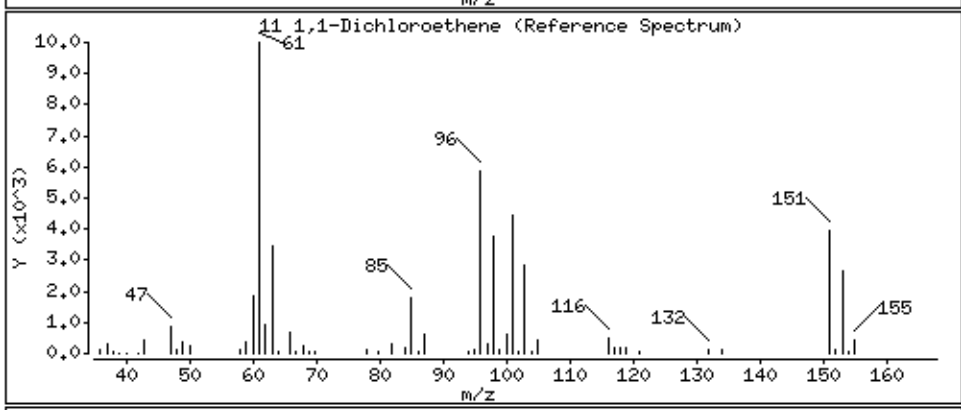
Column diameter: 0.18

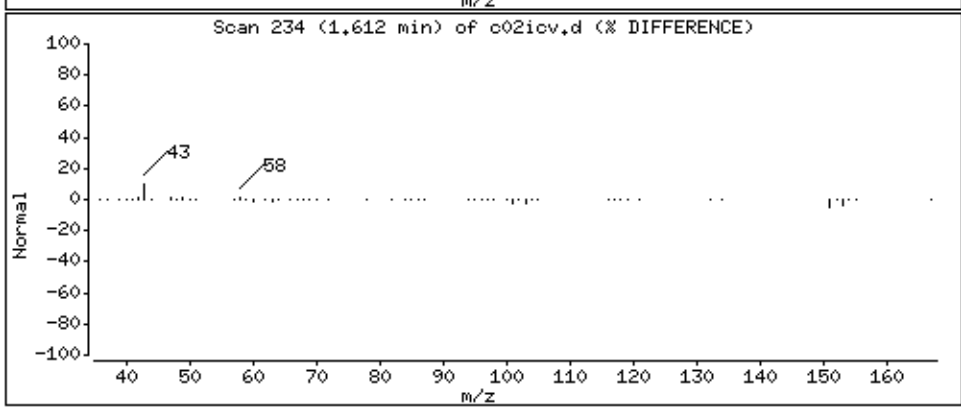
11 1,1-Dichloroethene

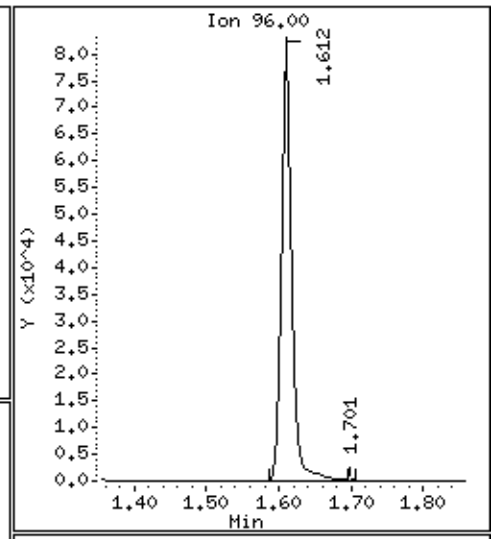
Concentration: 56.2 ppb

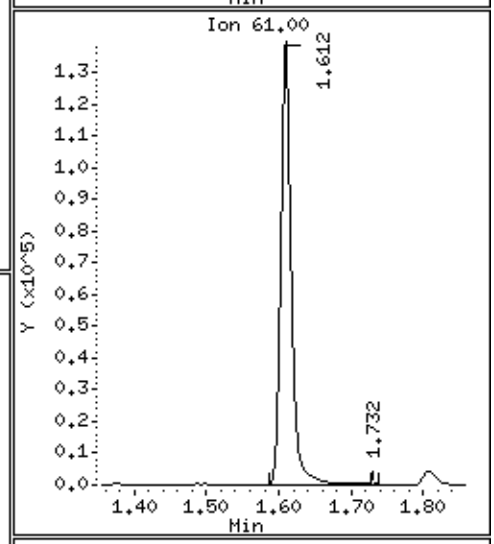


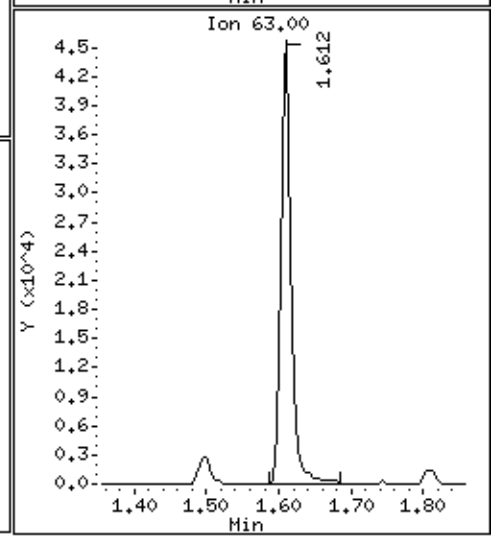












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

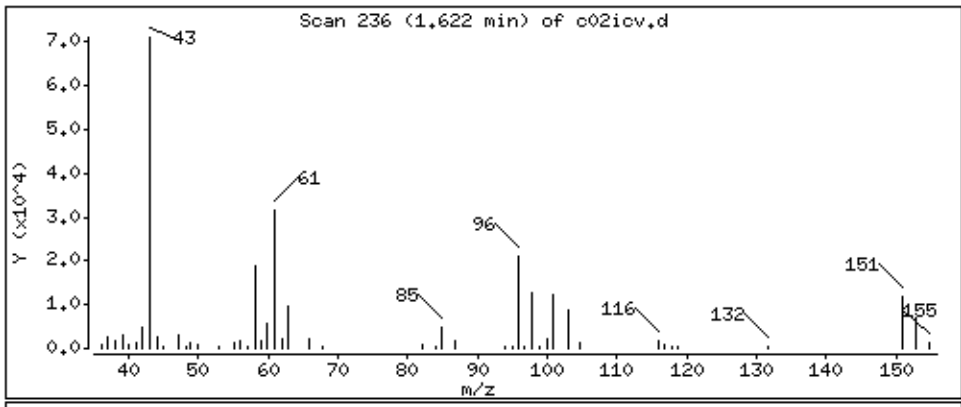
Operator: grm

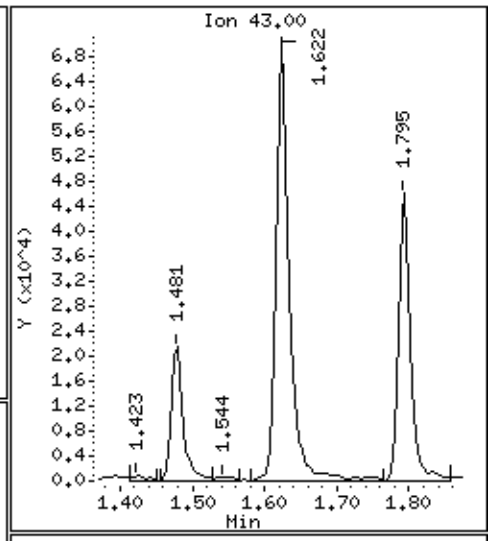
Column phase: DB-624

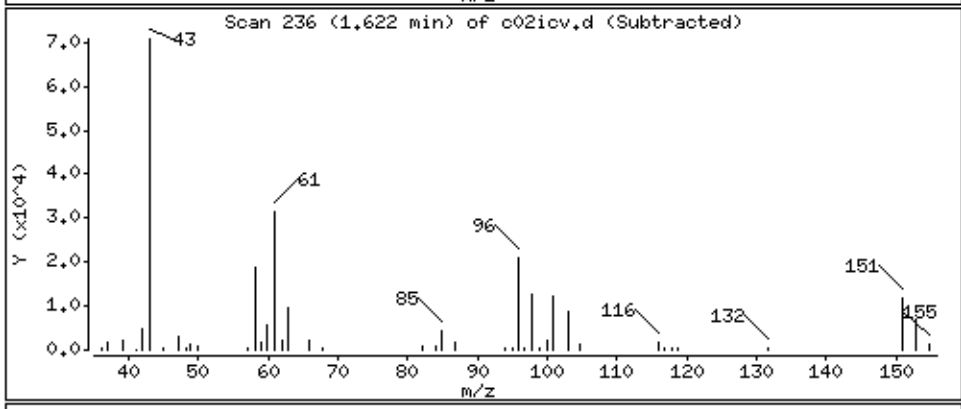
Column diameter: 0.18

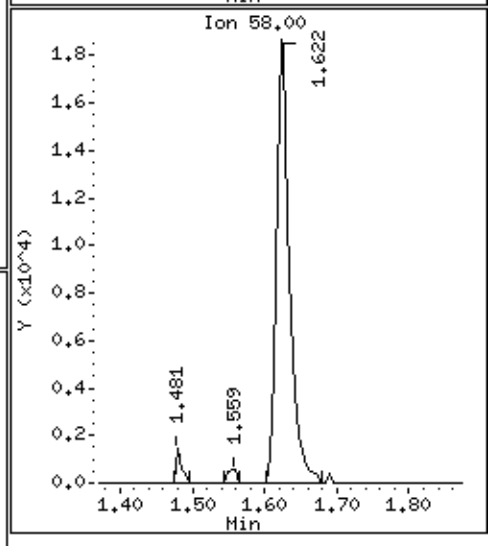
12 Acetone

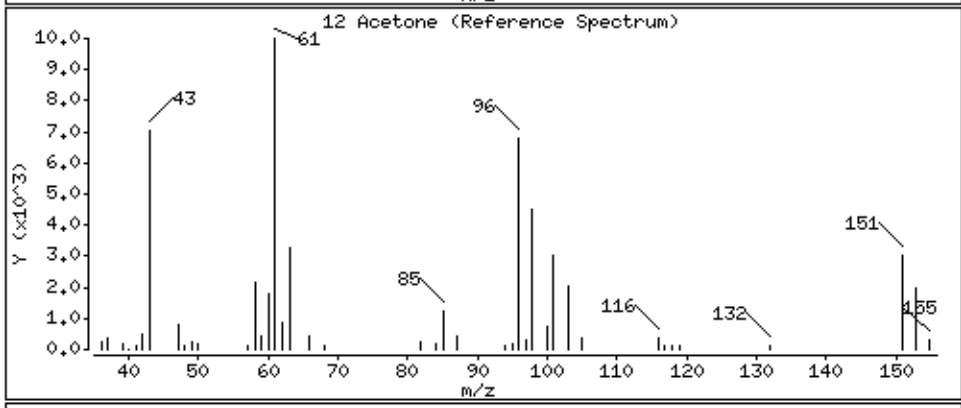
Concentration: 232 ppb

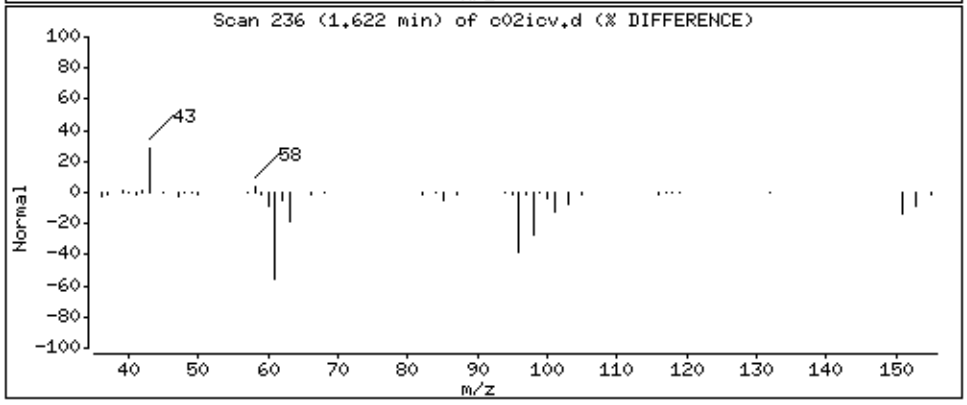












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

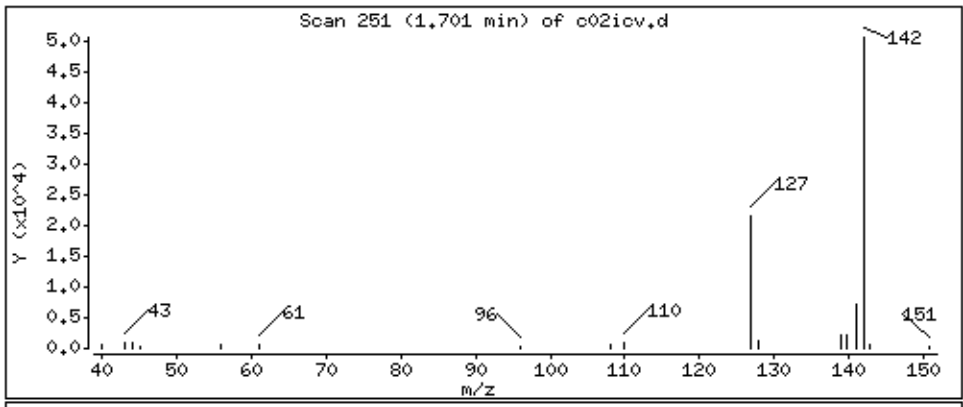
Operator: grm

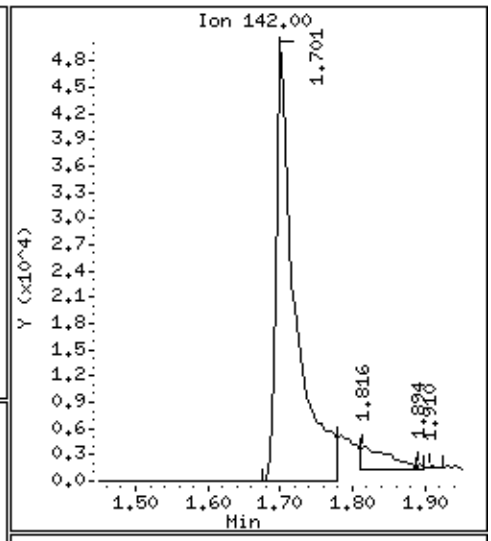
Column phase: DB-624

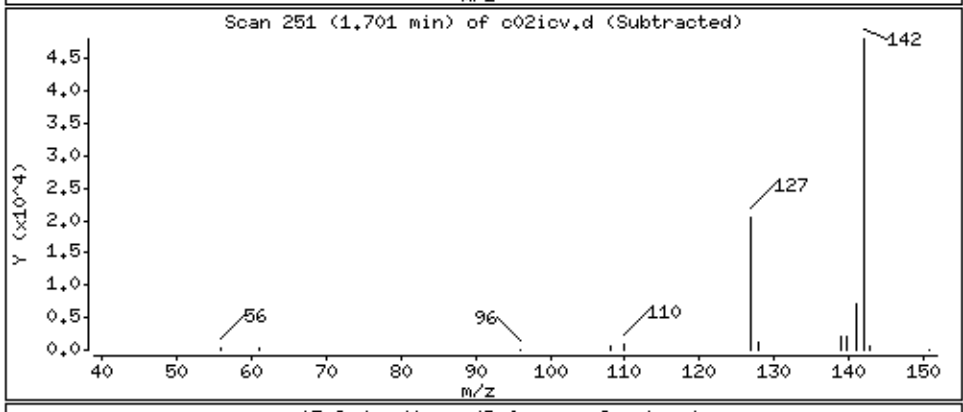
Column diameter: 0.18

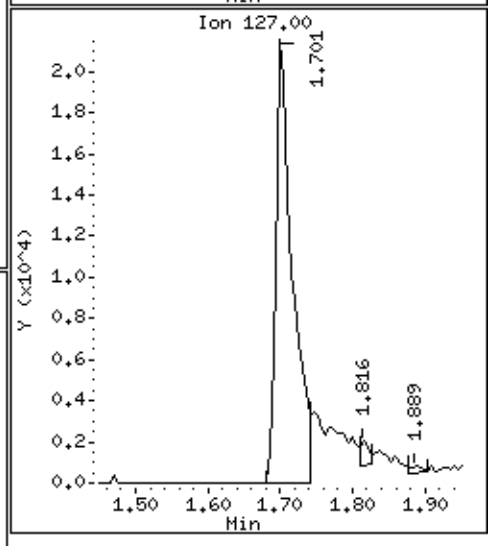
13 Iodomethane

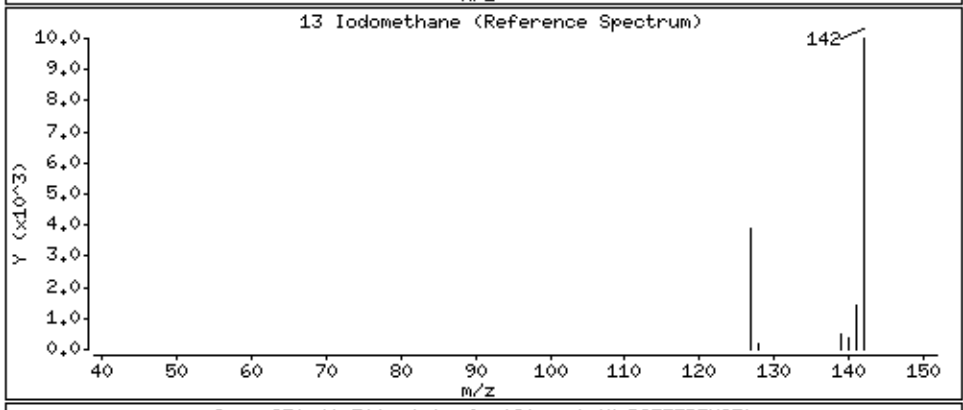
Concentration: 87.4 ppb

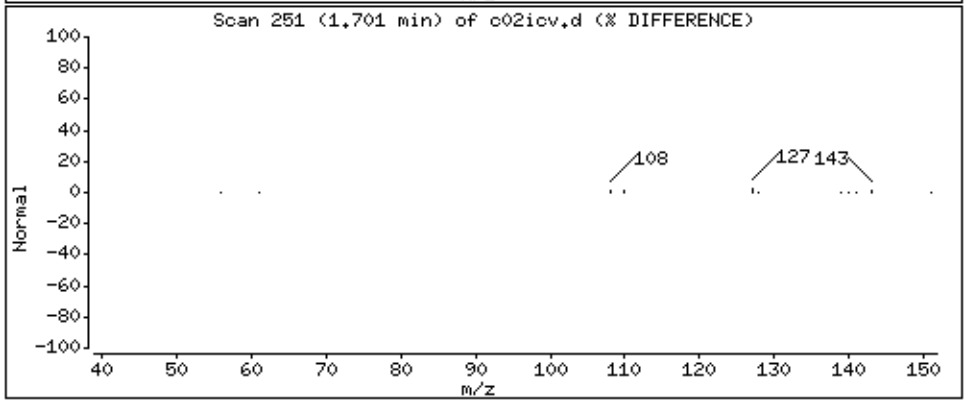












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

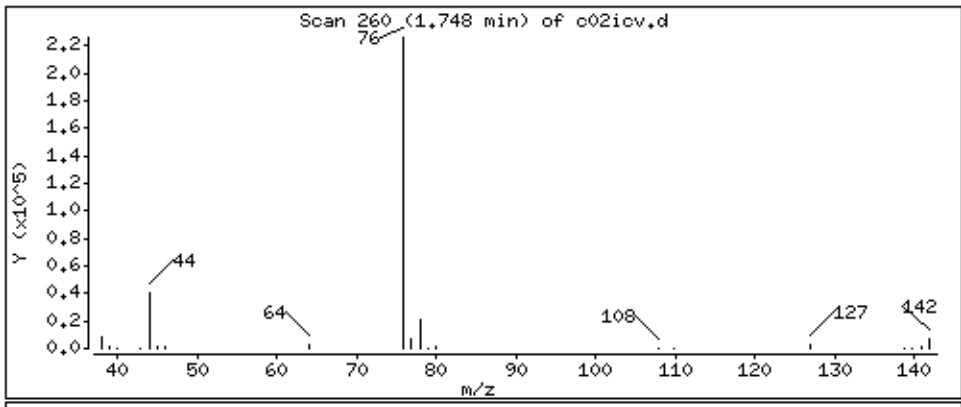
Operator: grm

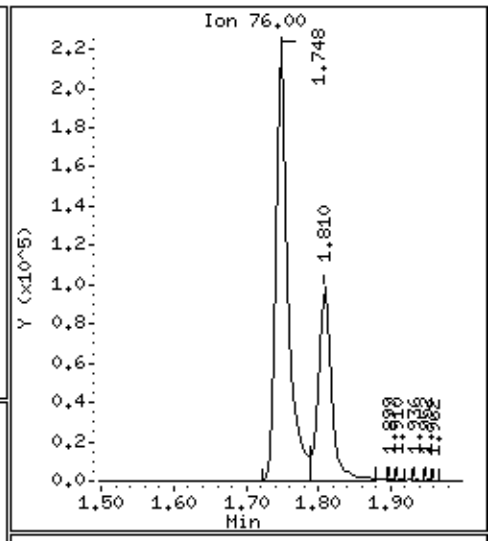
Column phase: DB-624

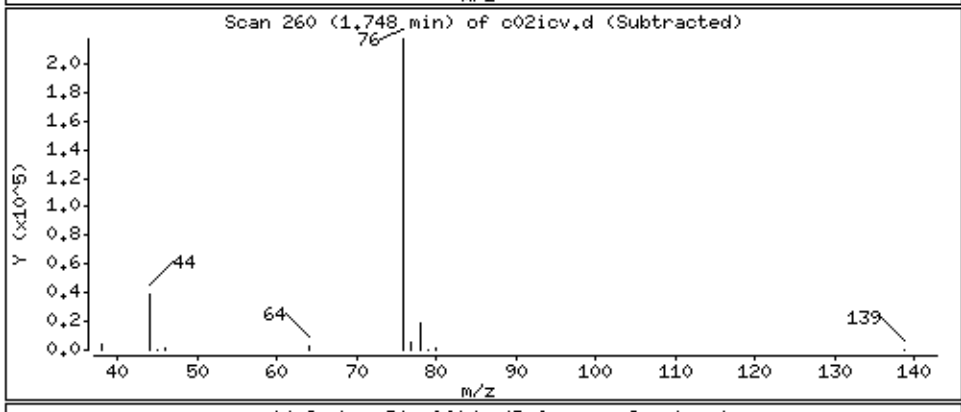
Column diameter: 0.18

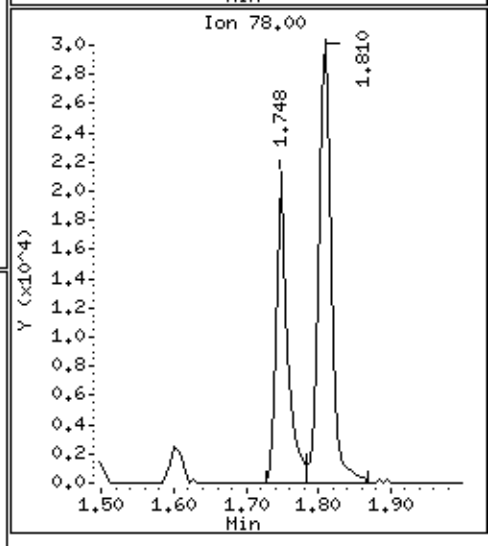
14 Carbon Disulfide

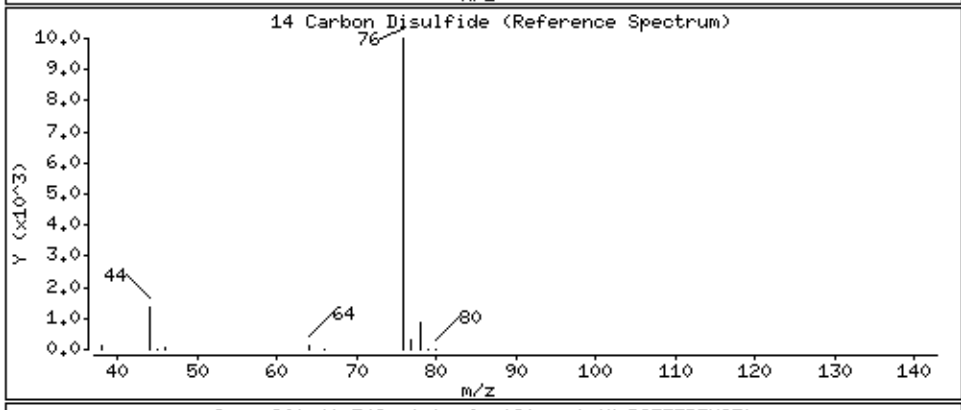
Concentration: 50.6 ppb

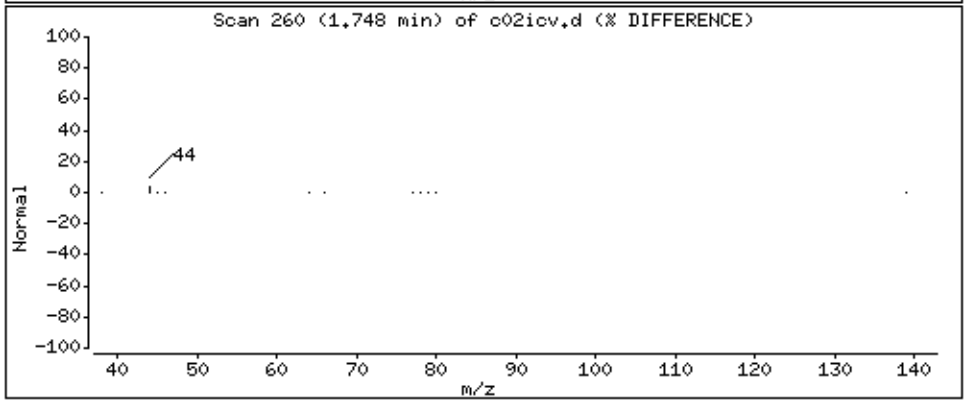












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

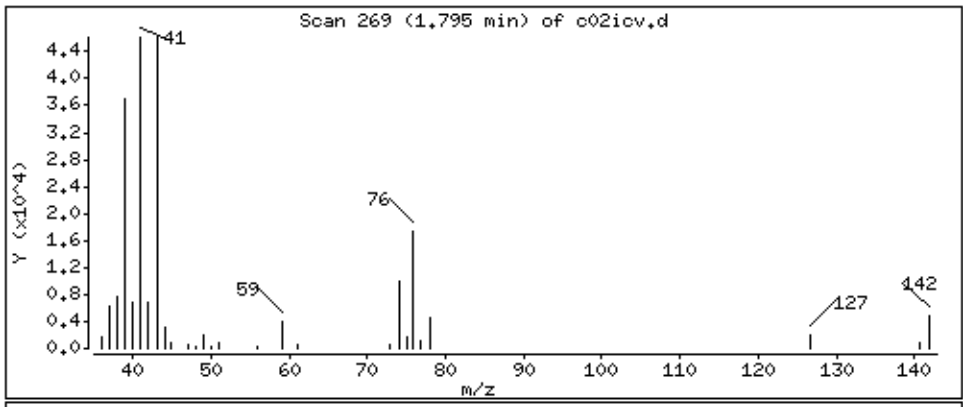
Operator: grm

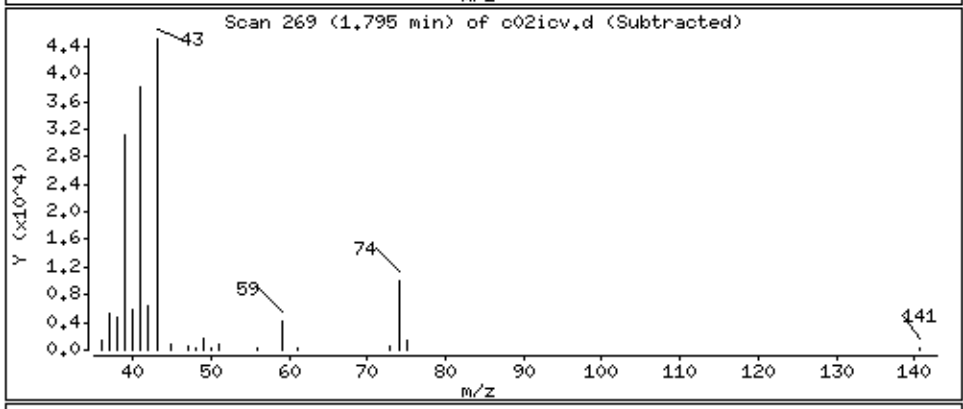
Column phase: DB-624

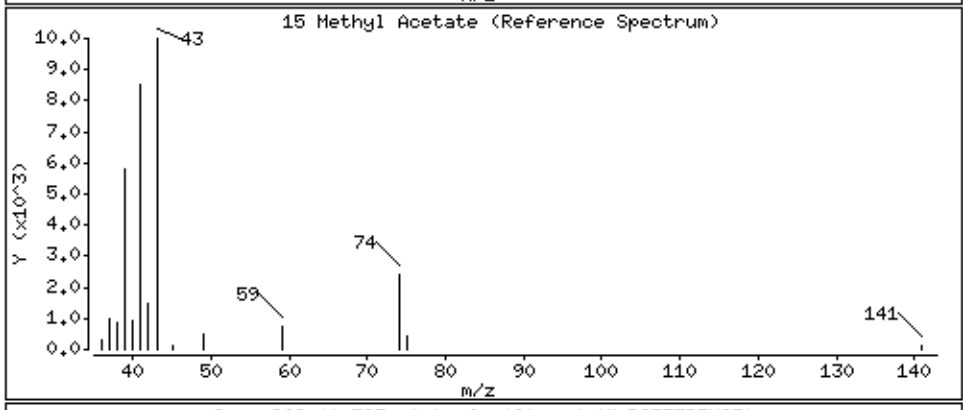
Column diameter: 0.18

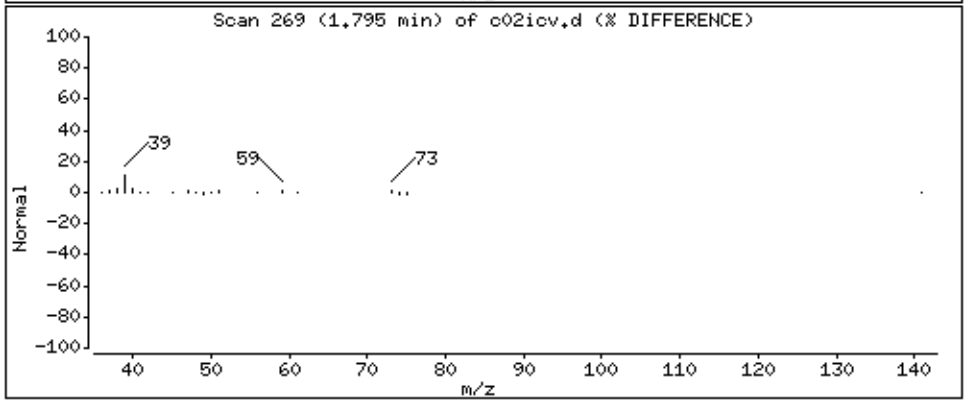
15 Methyl Acetate

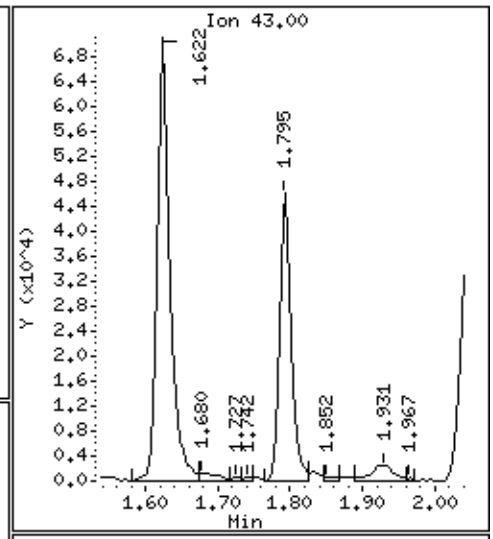
Concentration: 48.0 ppb

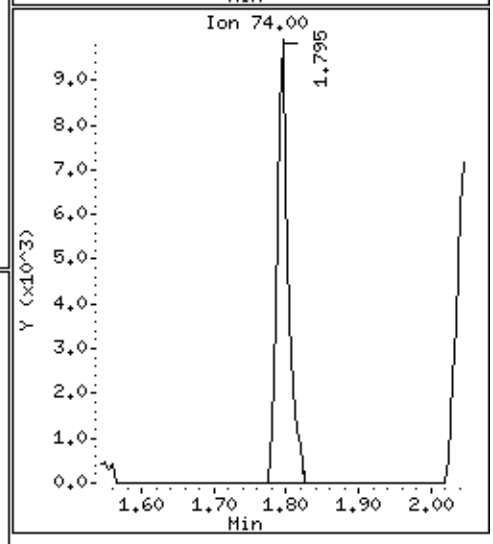












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

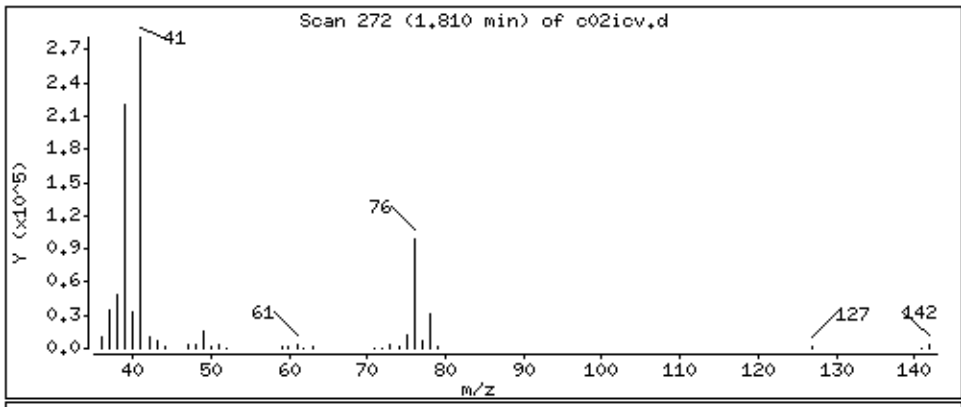
Operator: grm

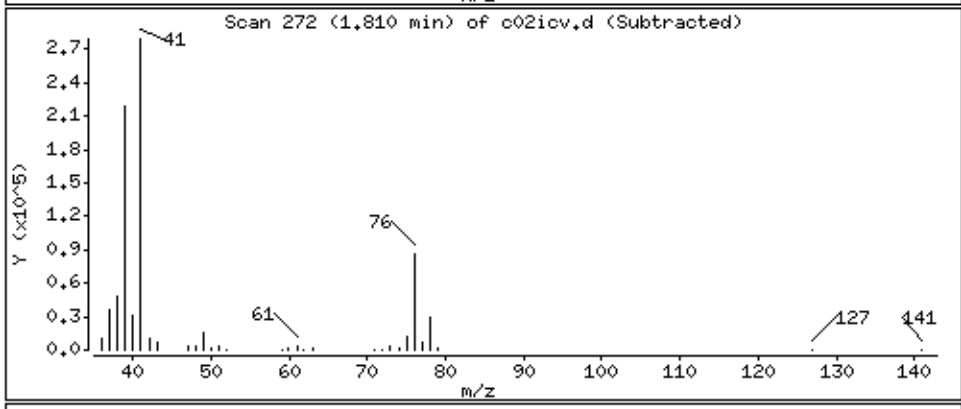
Column phase: DB-624

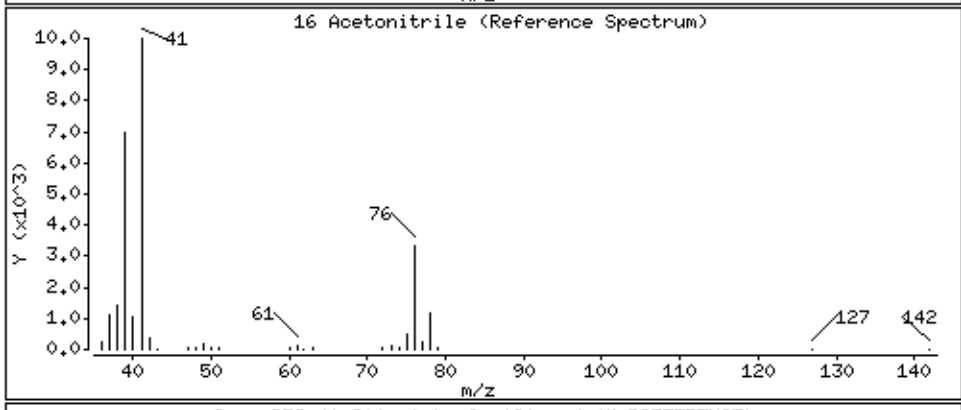
Column diameter: 0.18

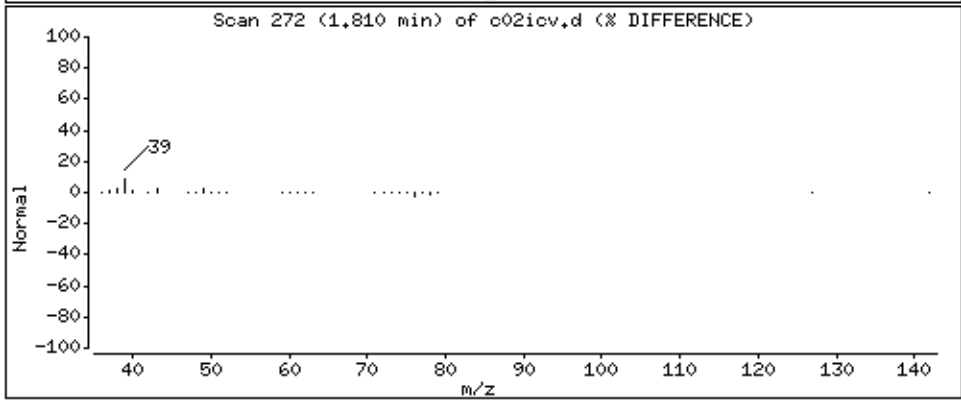
16 Acetonitrile

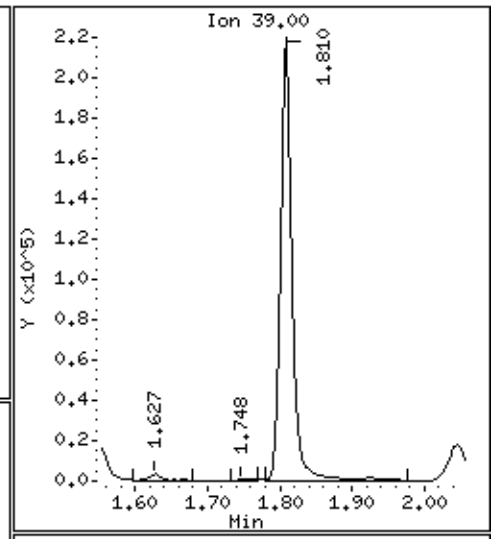
Concentration: 58.2 ppb

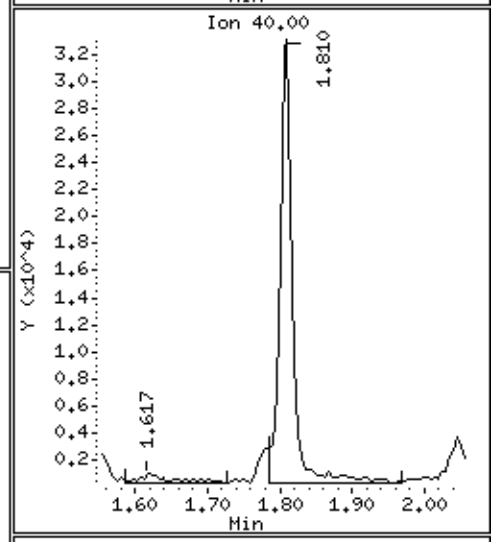


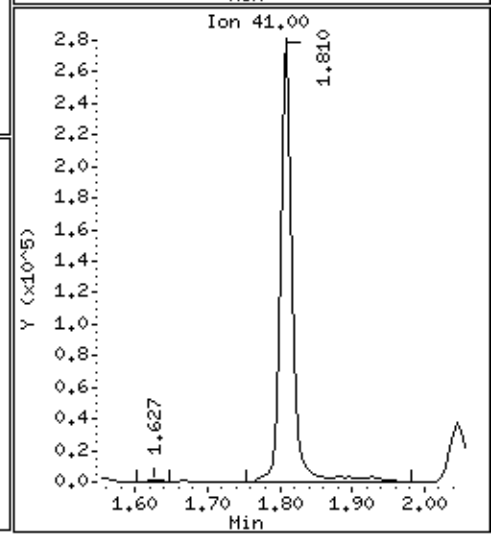












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

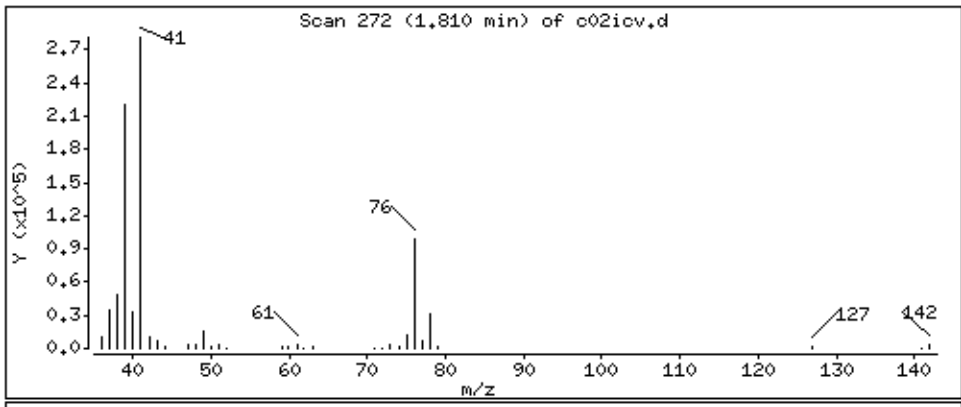
Operator: grm

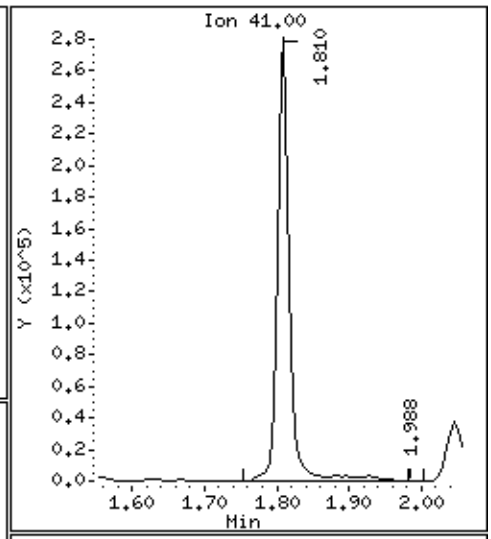
Column phase: DB-624

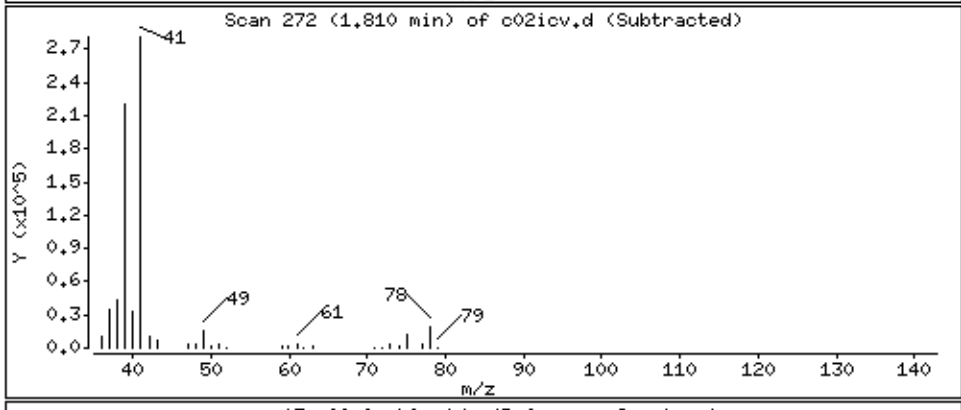
Column diameter: 0.18

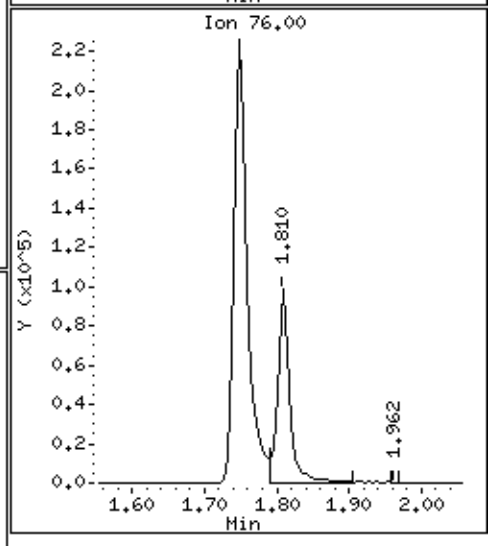
17 allyl chloride

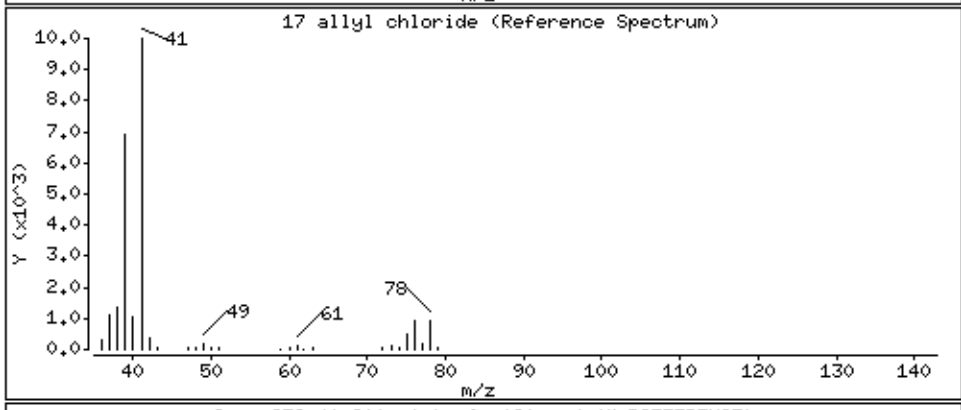
Concentration: 119 ppb

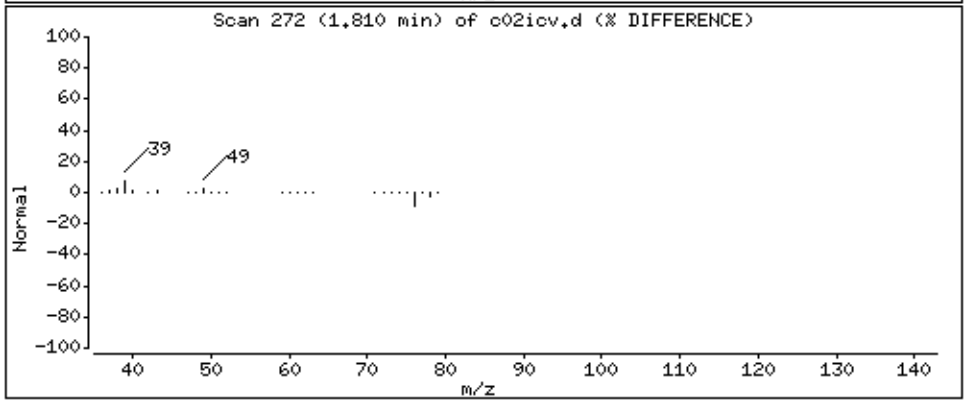












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

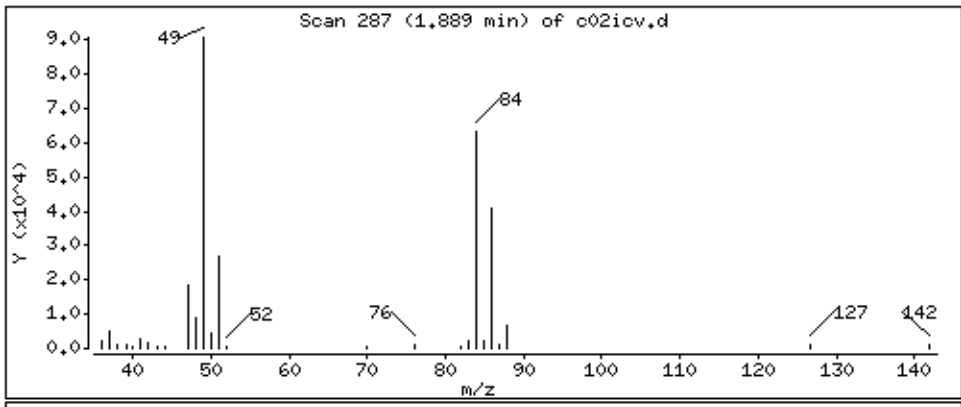
Operator: grm

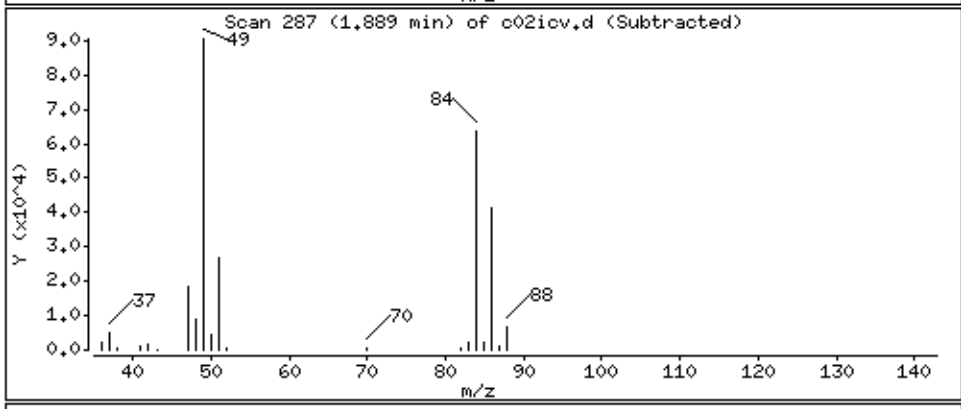
Column phase: DB-624

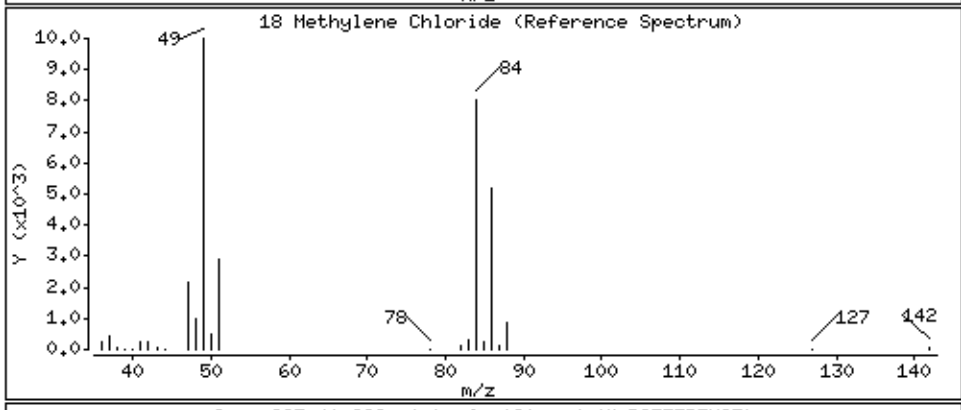
Column diameter: 0.18

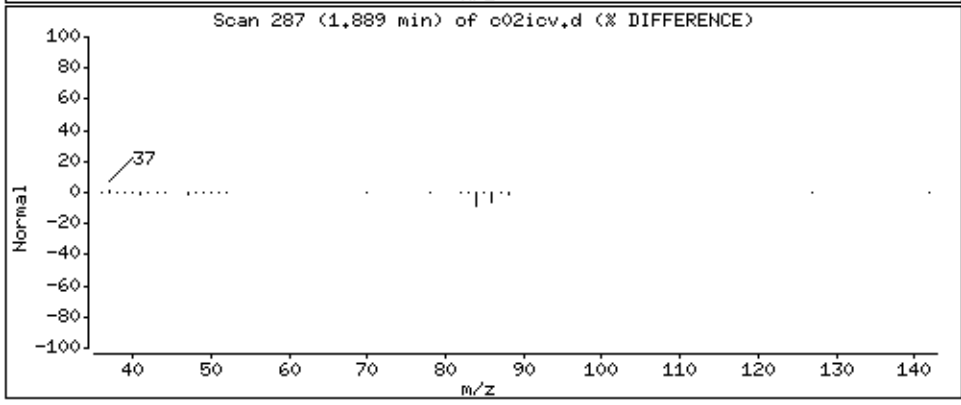
18 Methylene Chloride

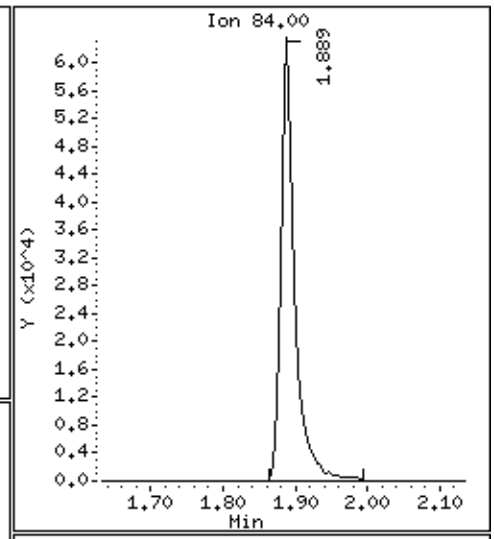
Concentration: 49.1 ppb

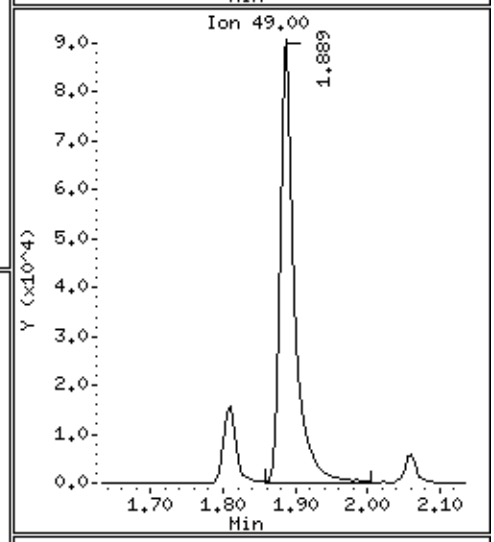


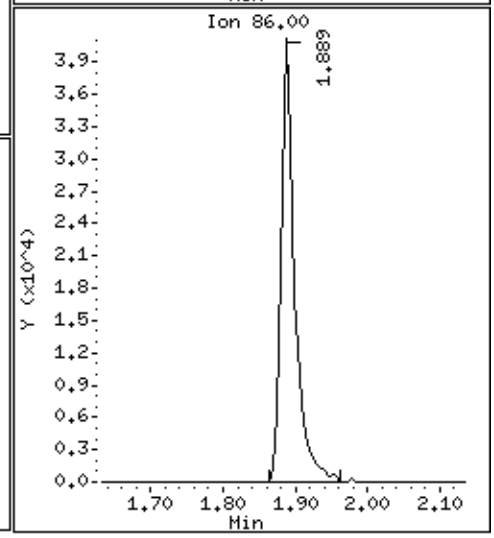












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

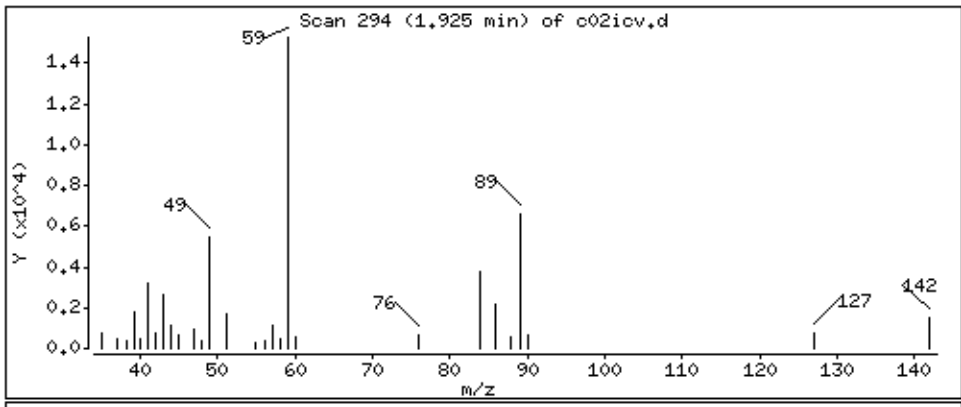
Operator: grm

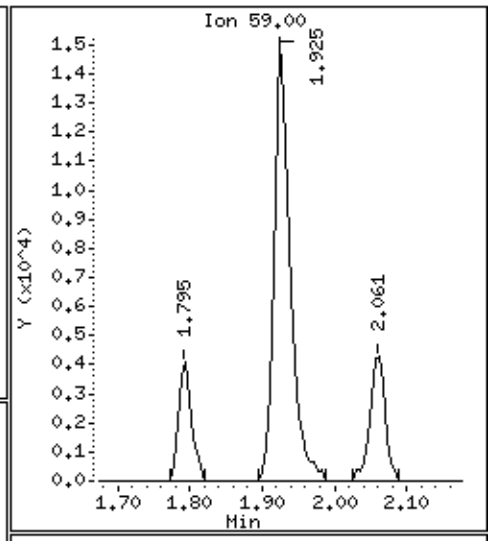
Column phase: DB-624

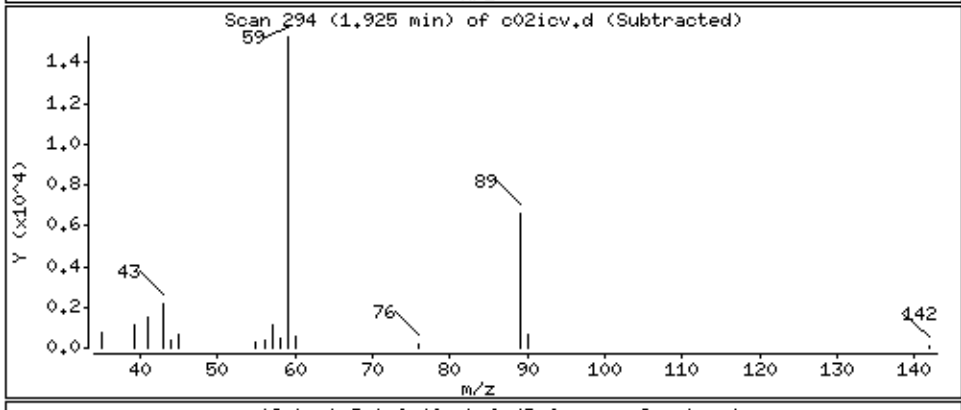
Column diameter: 0.18

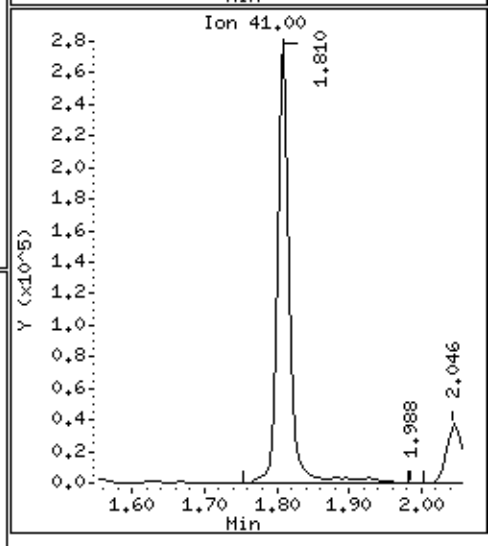
19 tert-Butyl Alcohol

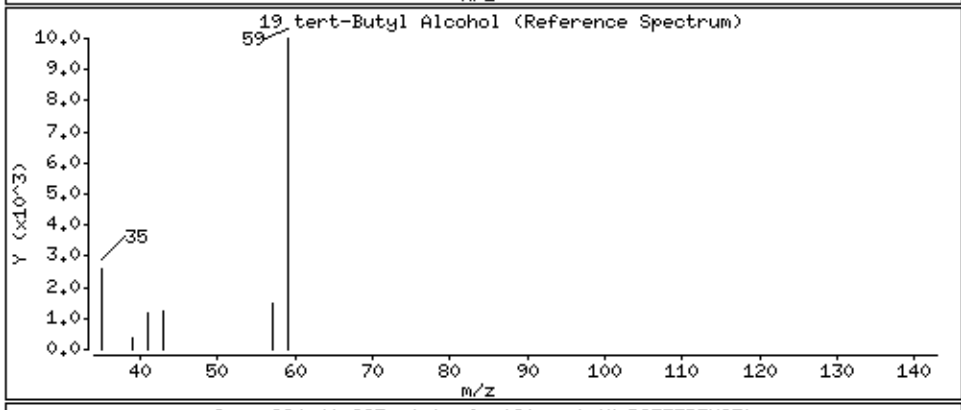
Concentration: 152 ppb

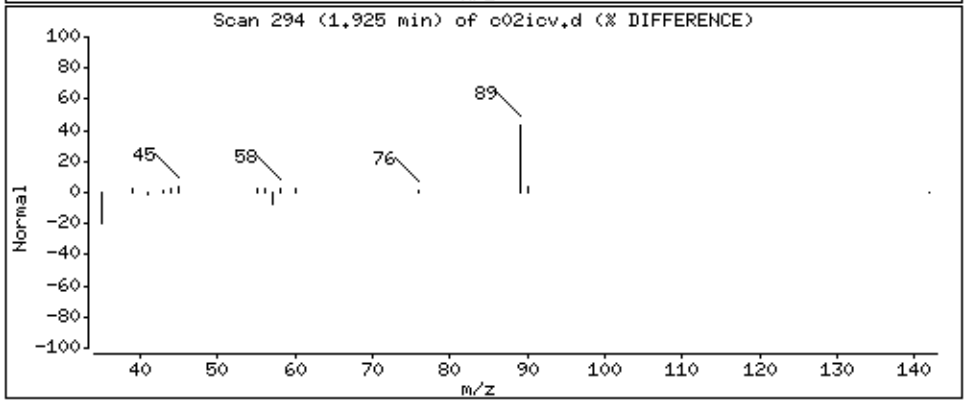












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

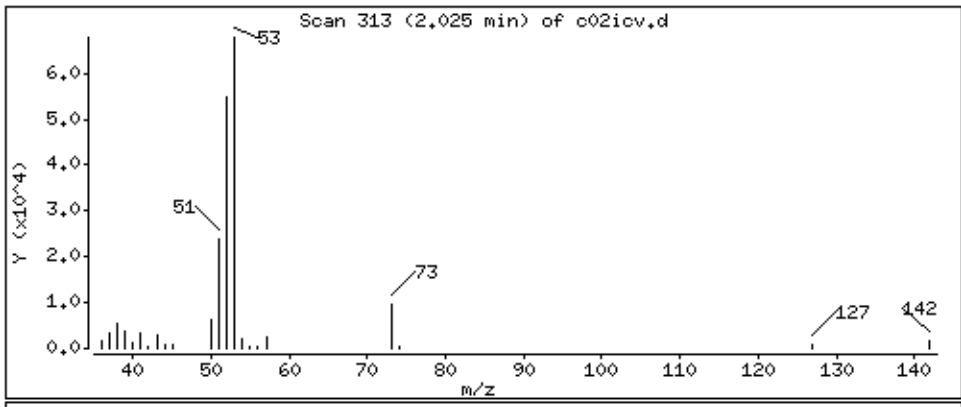
Operator: grm

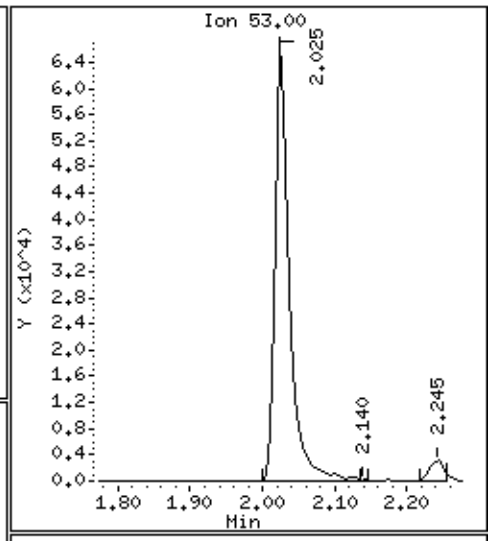
Column phase: DB-624

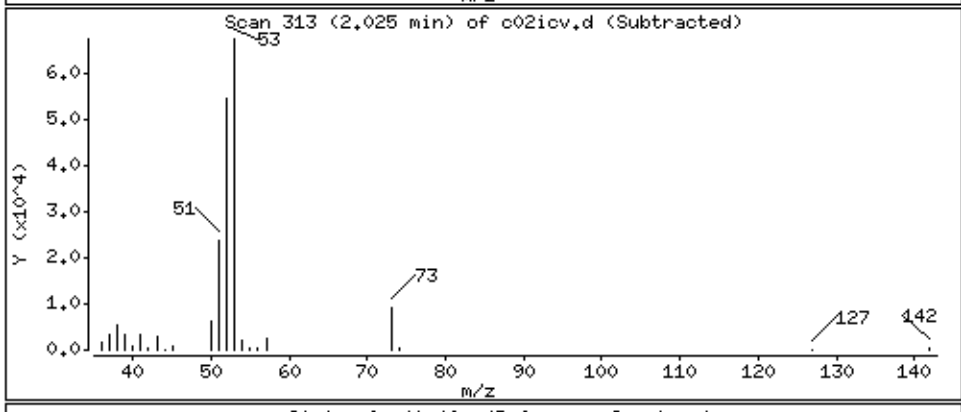
Column diameter: 0.18

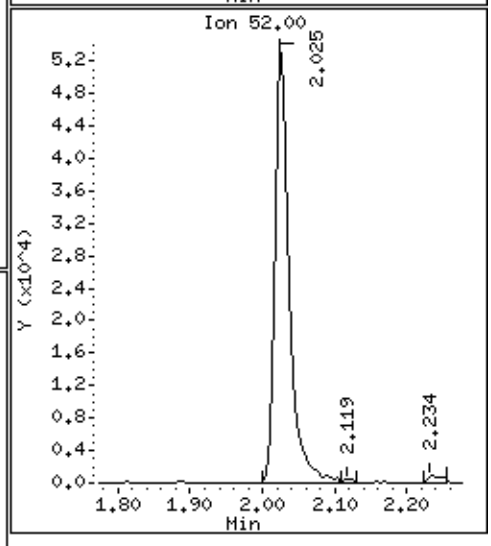
20 Acrylonitrile

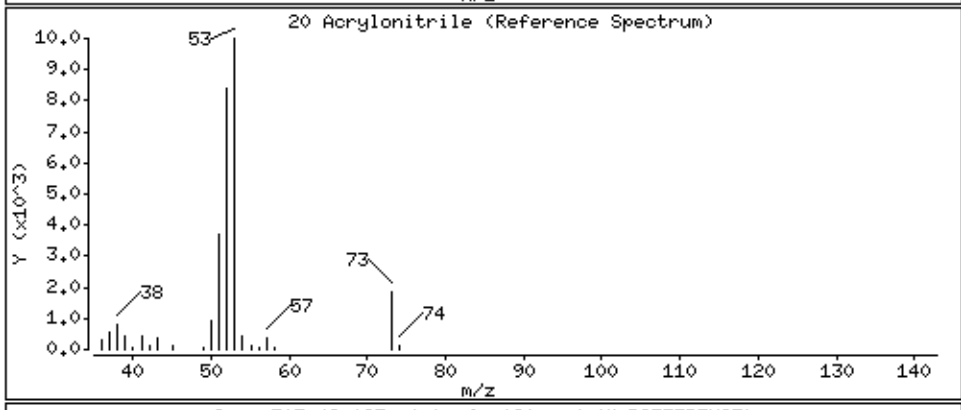
Concentration: 203 ppb

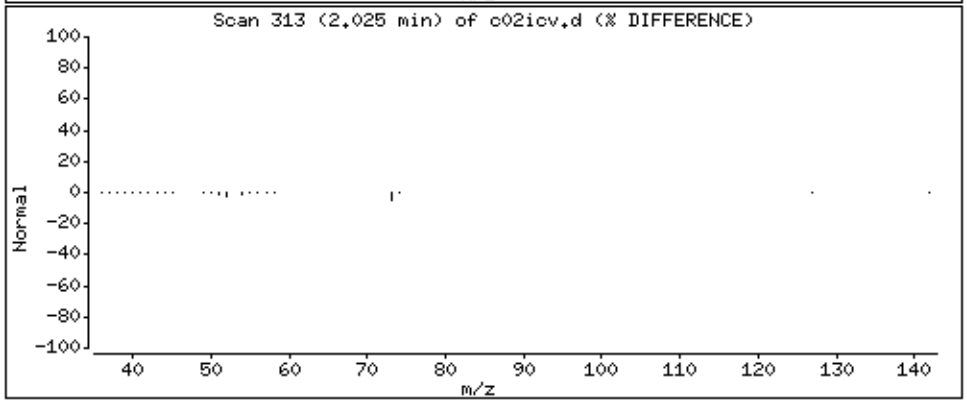












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

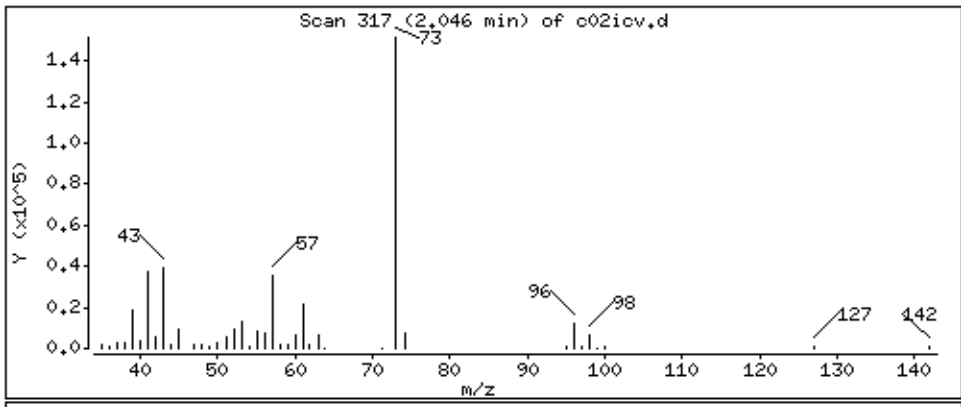
Operator: grm

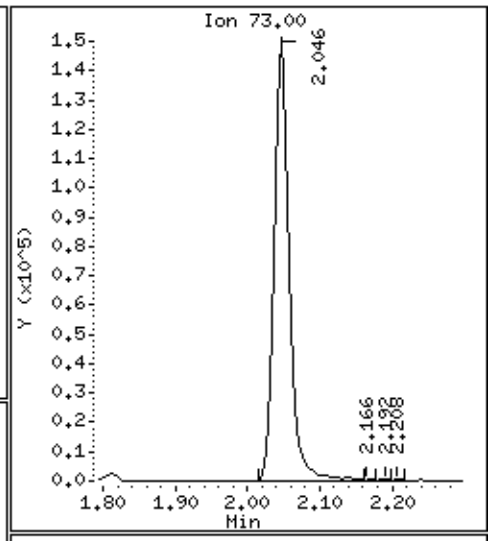
Column phase: DB-624

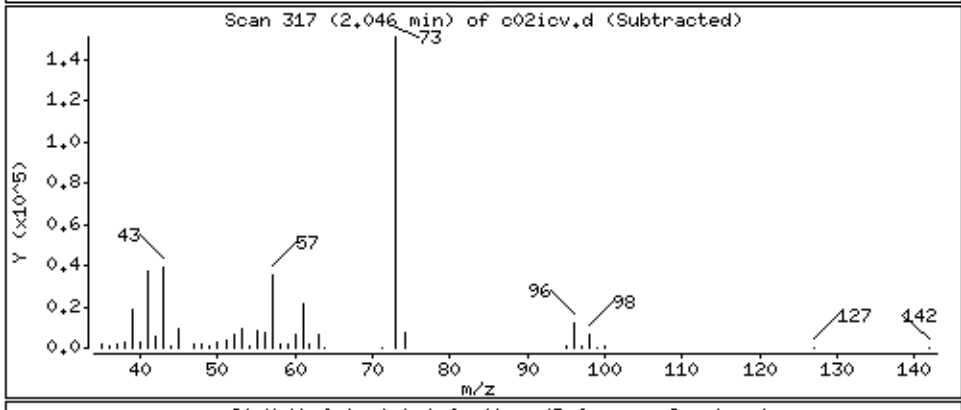
Column diameter: 0.18

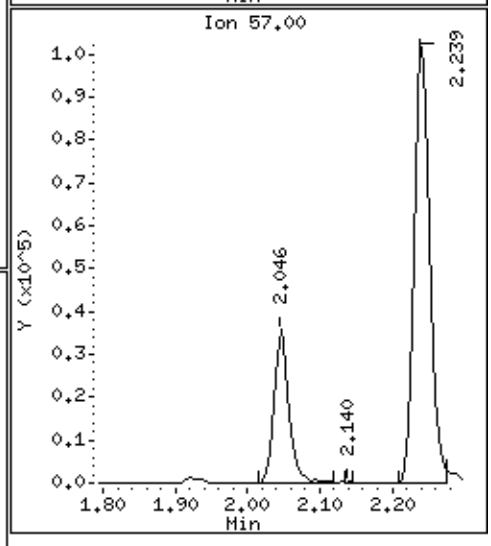
21 Methyl-tert-butyl ether

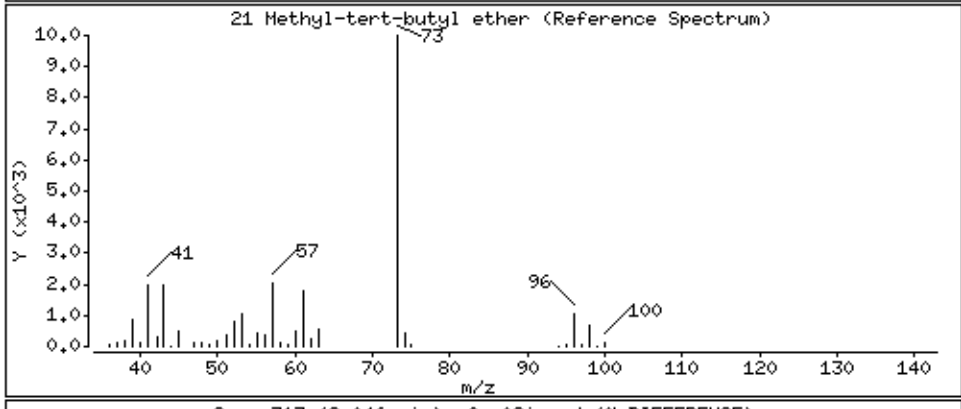
Concentration: 52.0 ppb

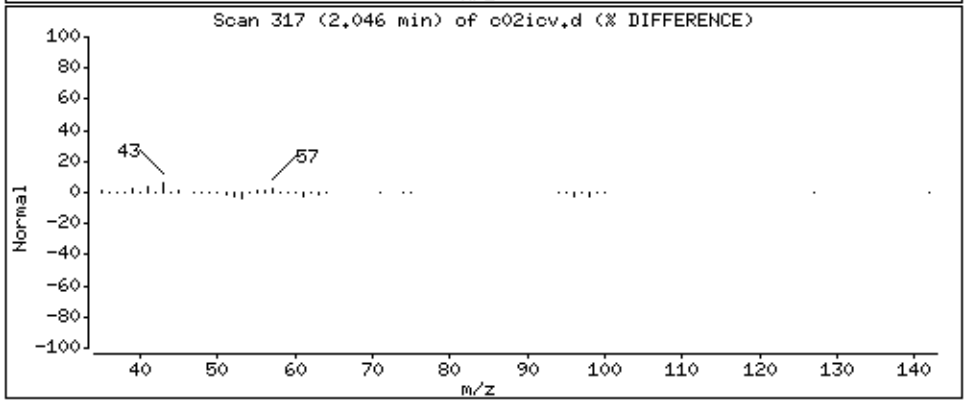












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

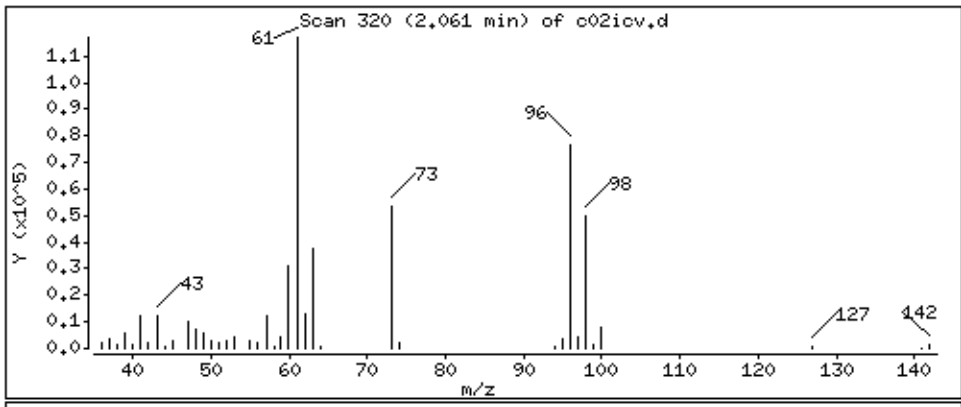
Operator: grm

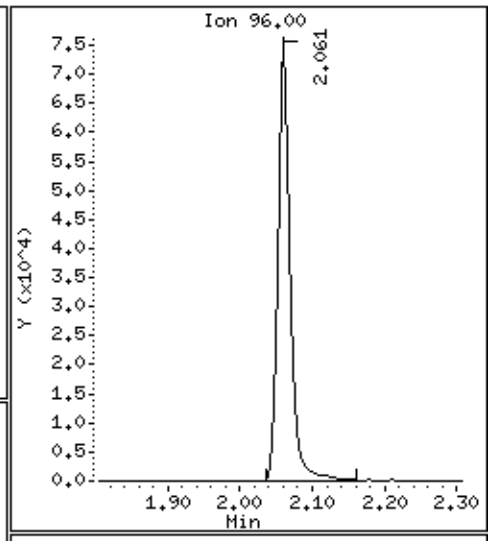
Column phase: DB-624

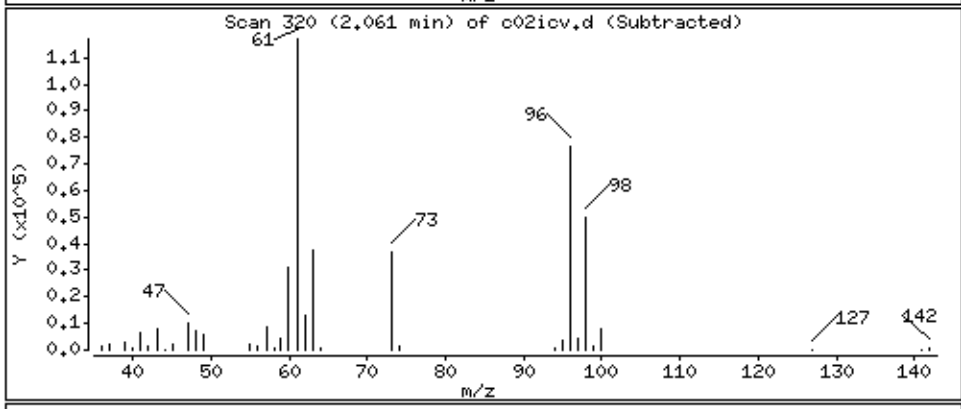
Column diameter: 0.18

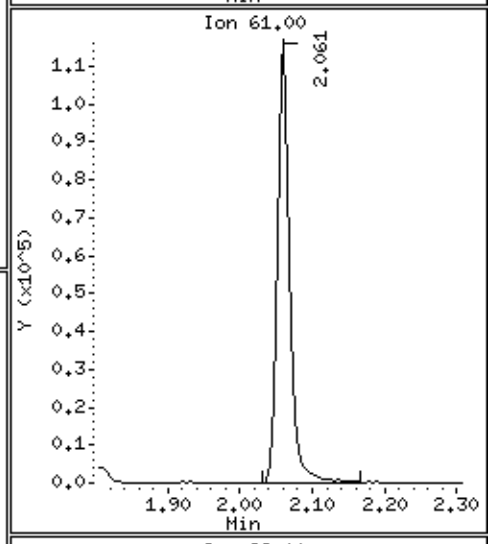
22 1,2-Dichloroethene (trans)

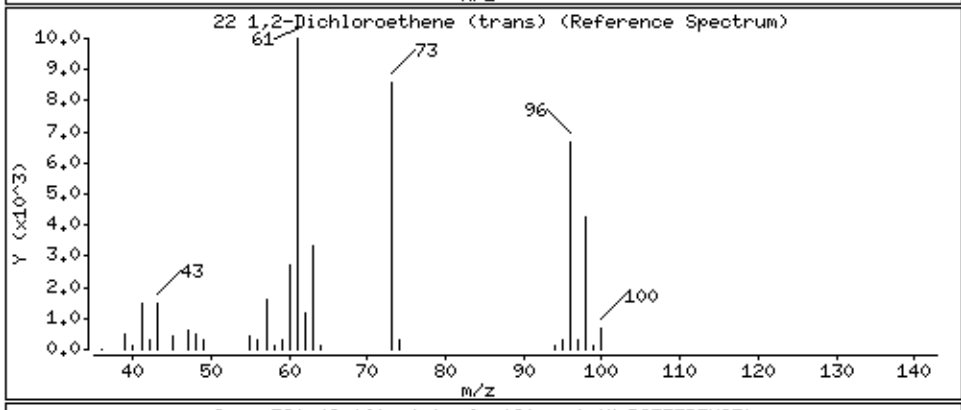
Concentration: 54.0 ppb

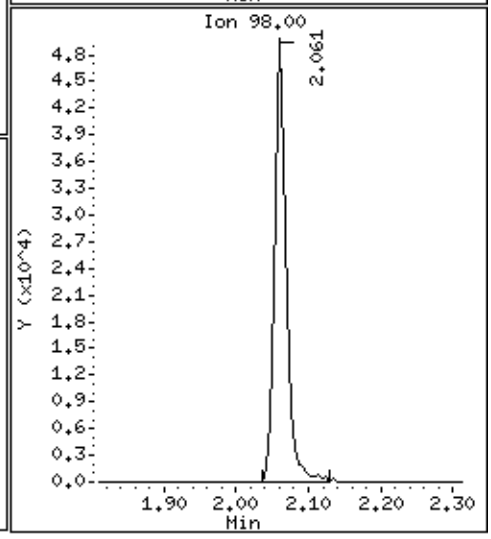


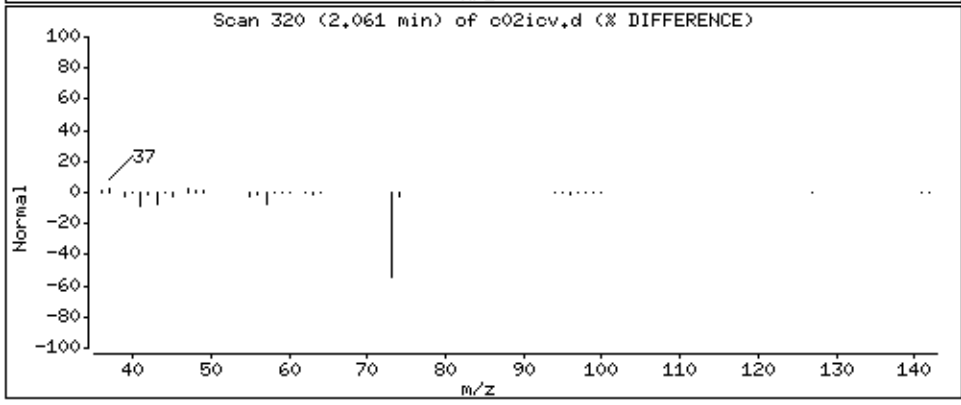












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

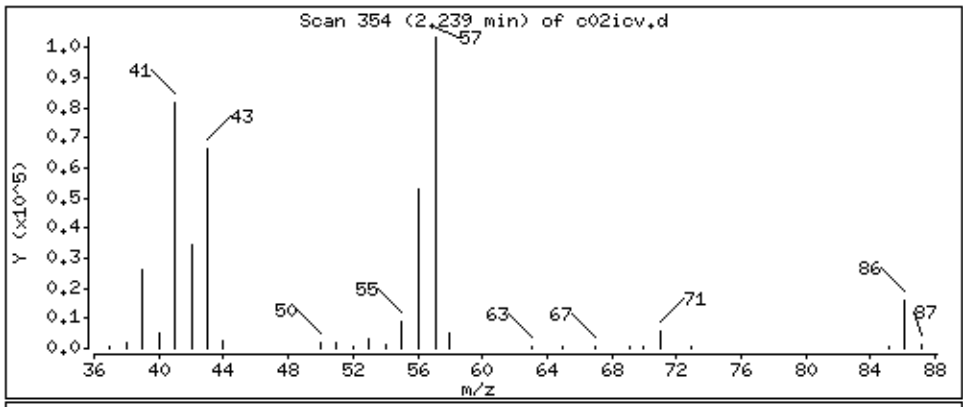
Operator: grm

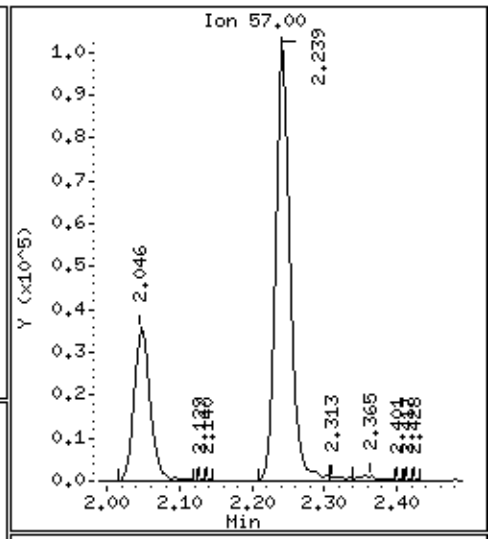
Column phase: DB-624

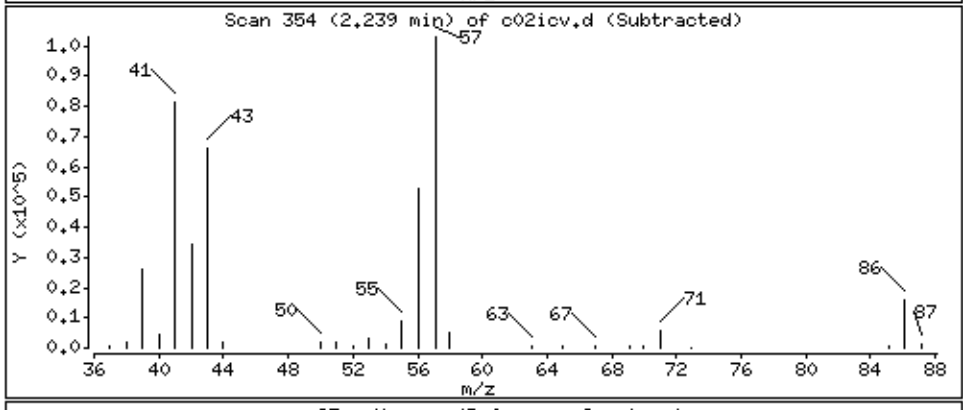
Column diameter: 0.18

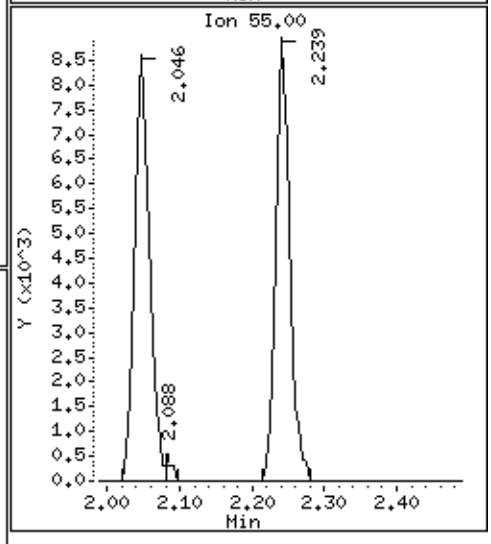
23 n-Hexane

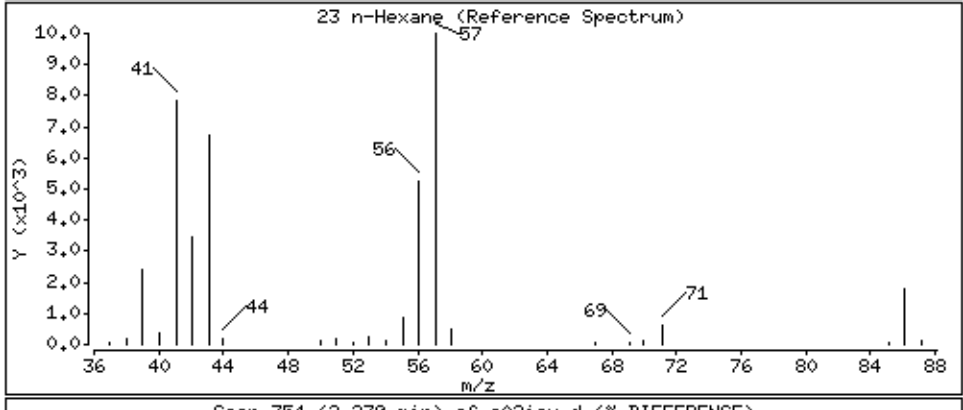
Concentration: 44.9 ppb

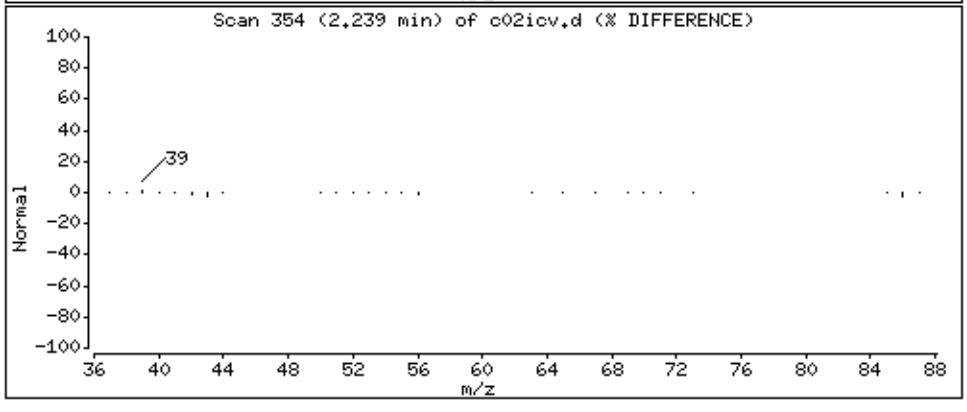












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

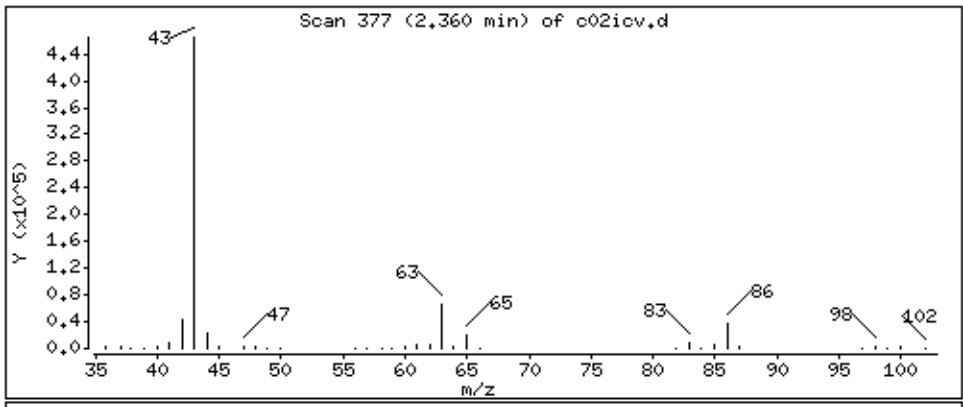
Operator: grm

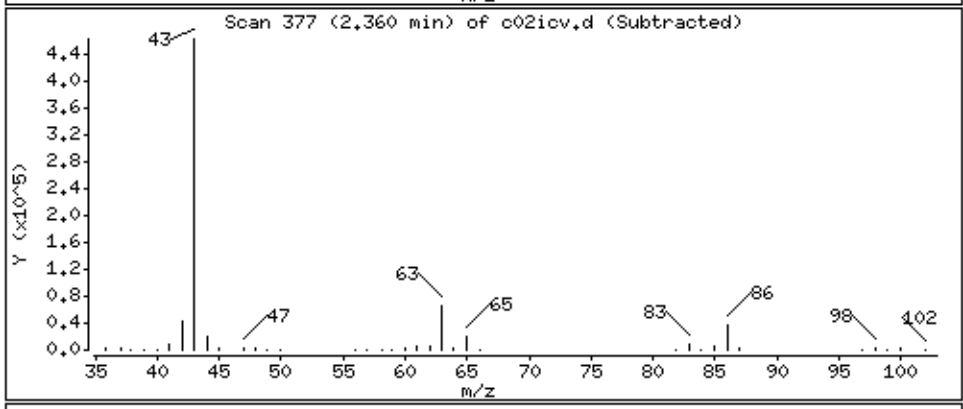
Column phase: DB-624

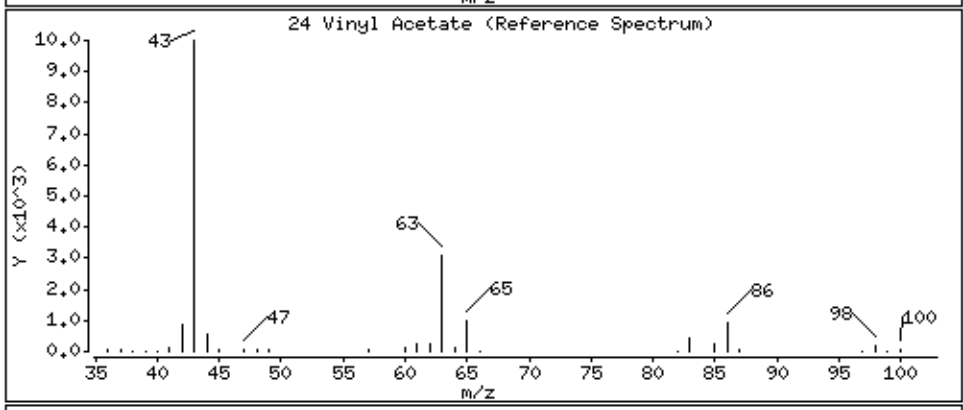
Column diameter: 0.18

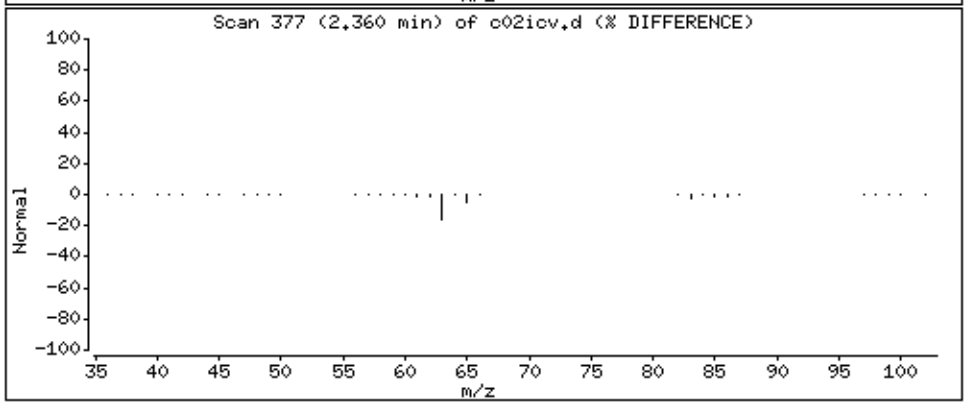
24 Vinyl Acetate

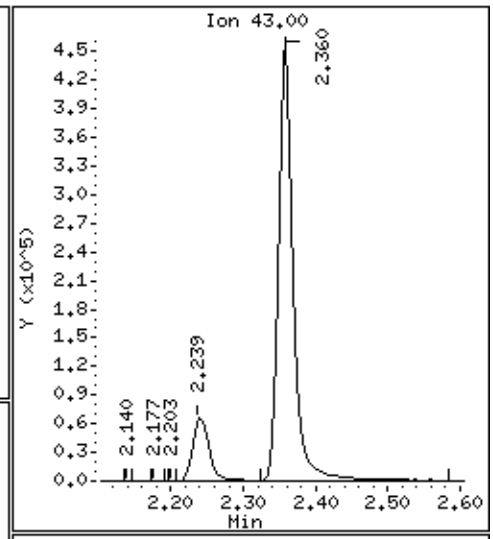
Concentration: 218 ppb

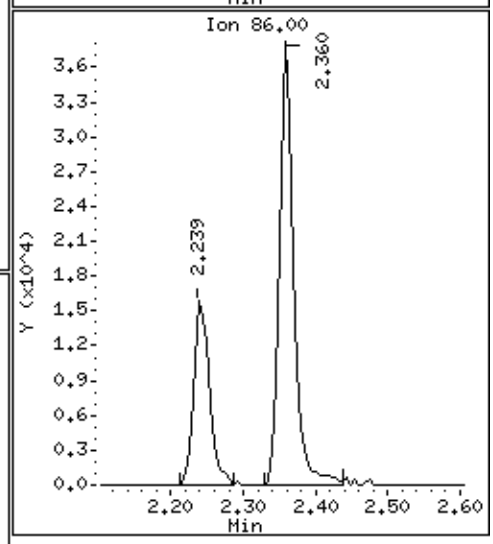












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

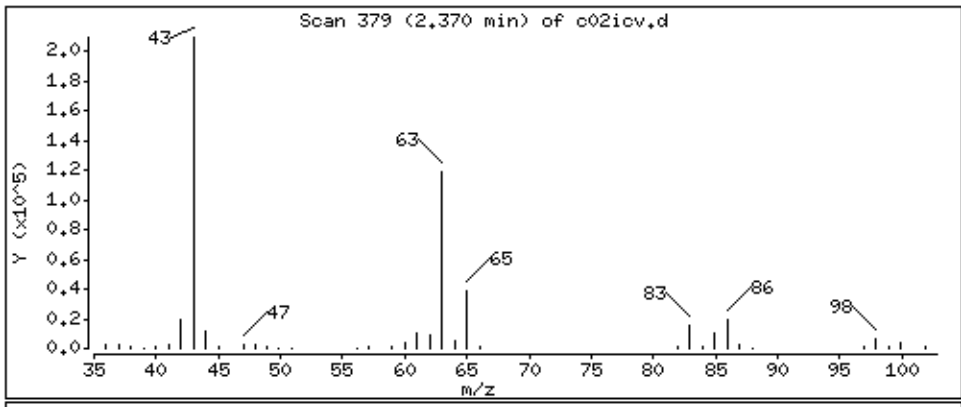
Operator: grm

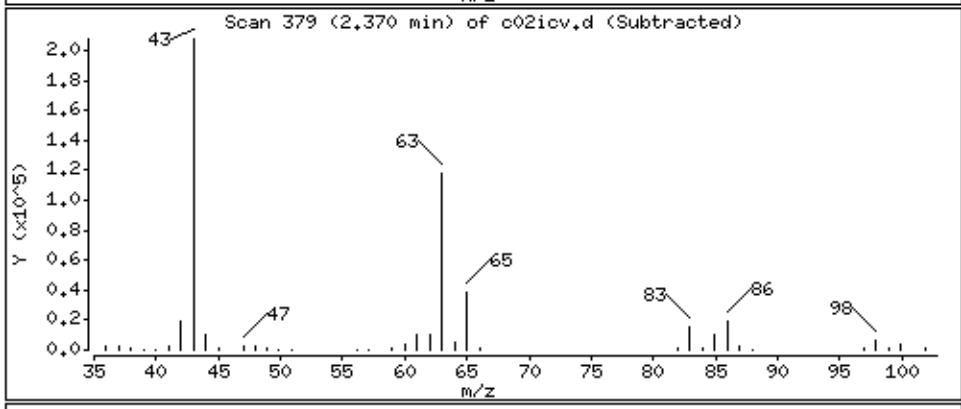
Column phase: DB-624

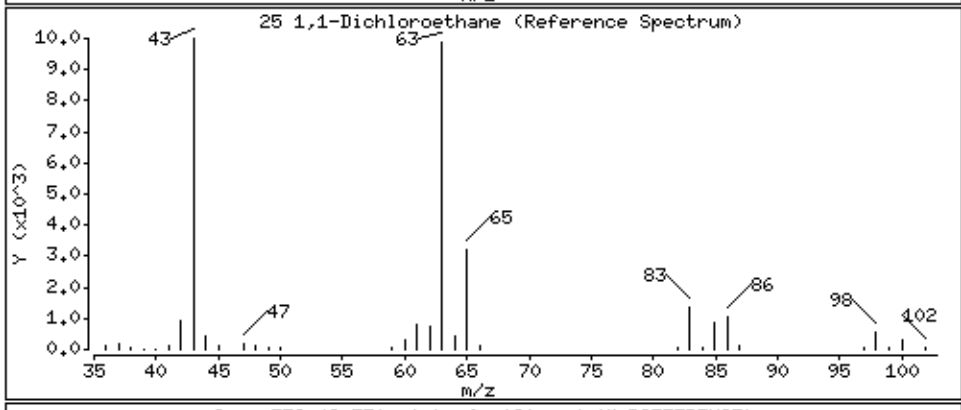
Column diameter: 0.18

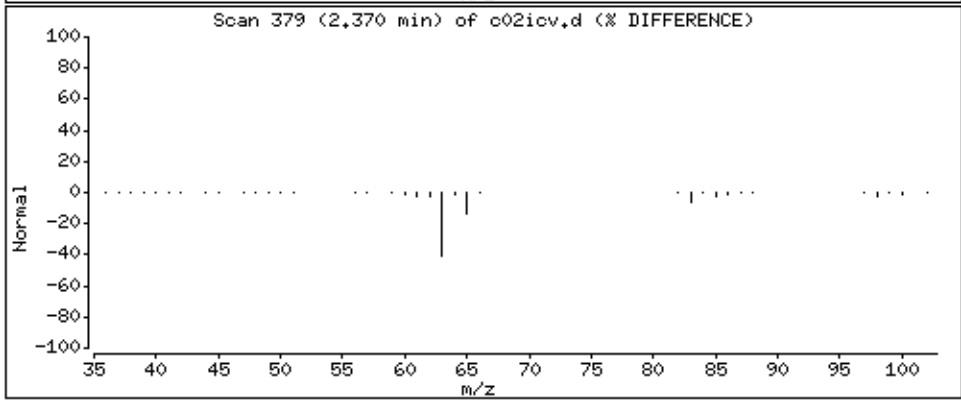
25 1,1-Dichloroethane

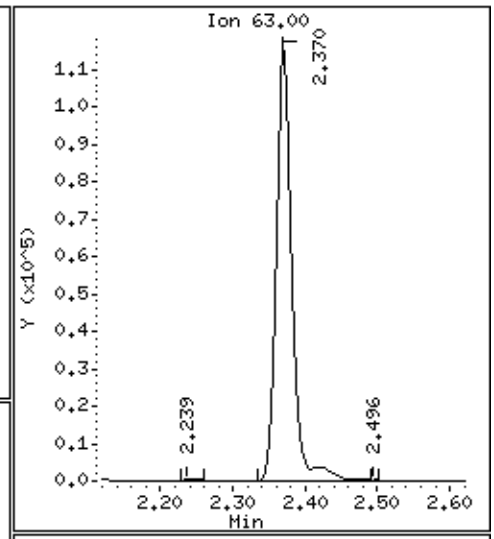
Concentration: 52.1 ppb

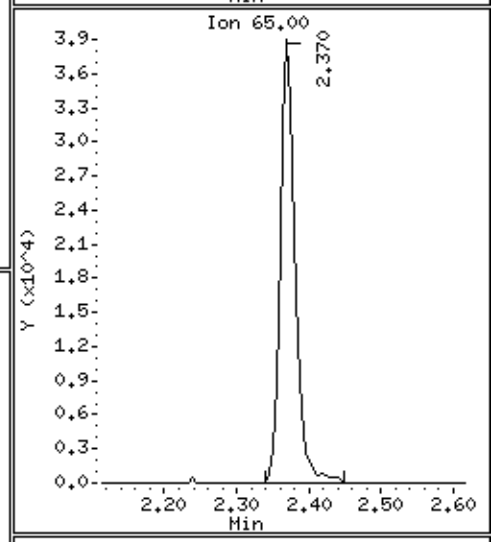


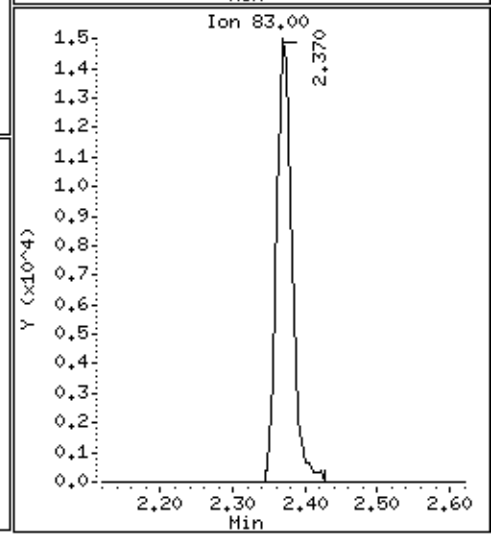












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

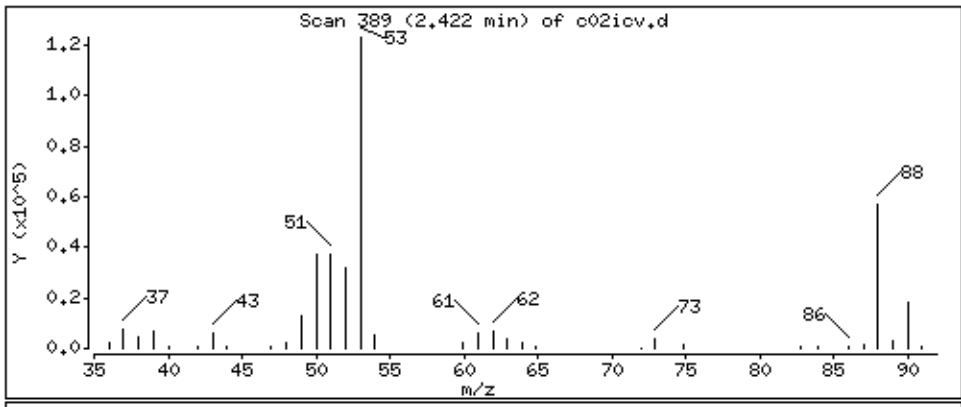
Operator: grm

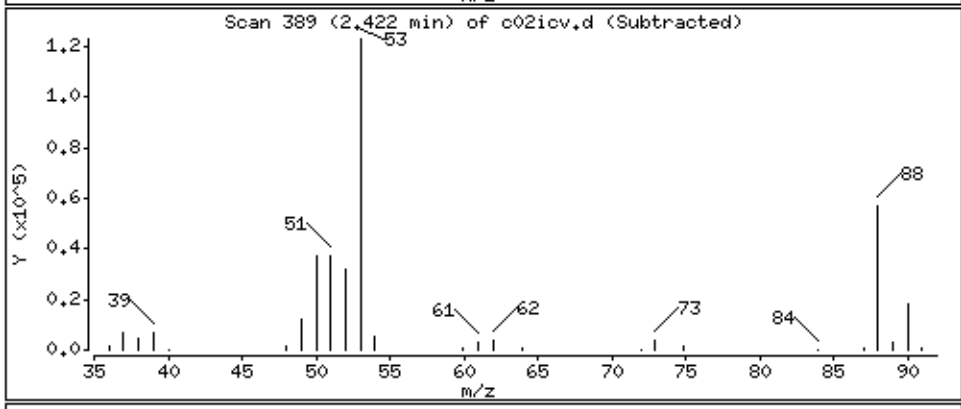
Column phase: DB-624

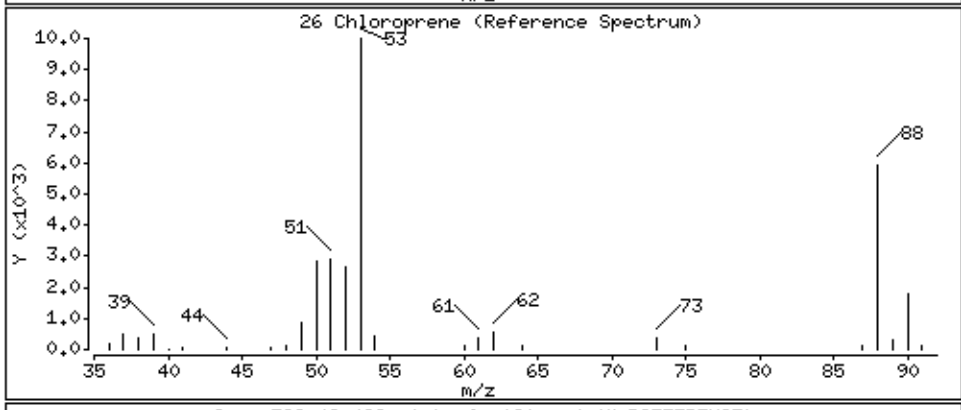
Column diameter: 0.18

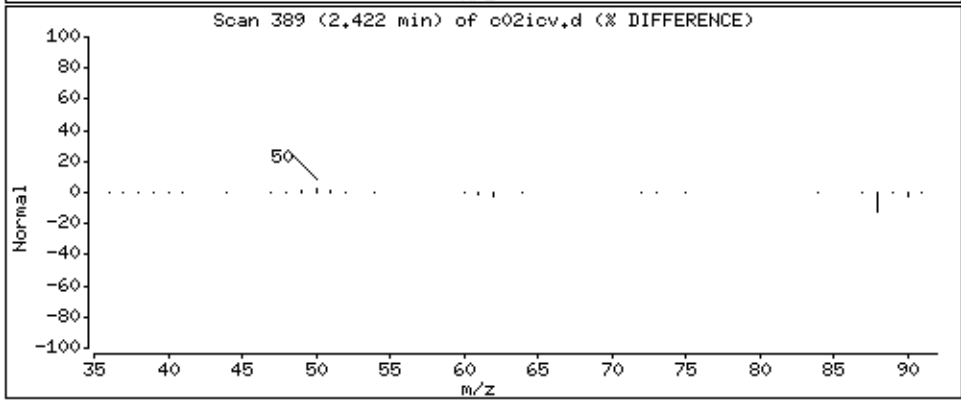
26 Chloroprene

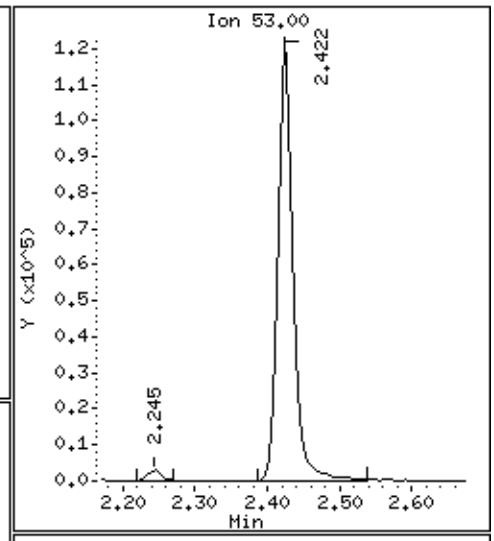
Concentration: 55.2 ppb

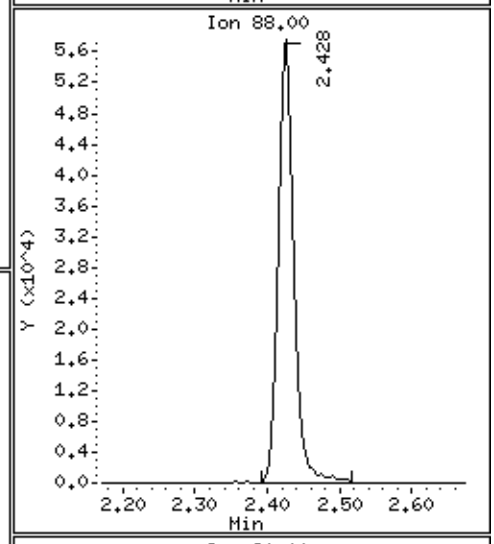


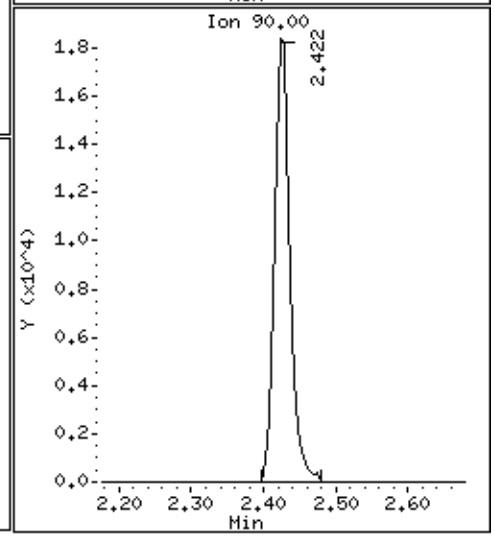












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

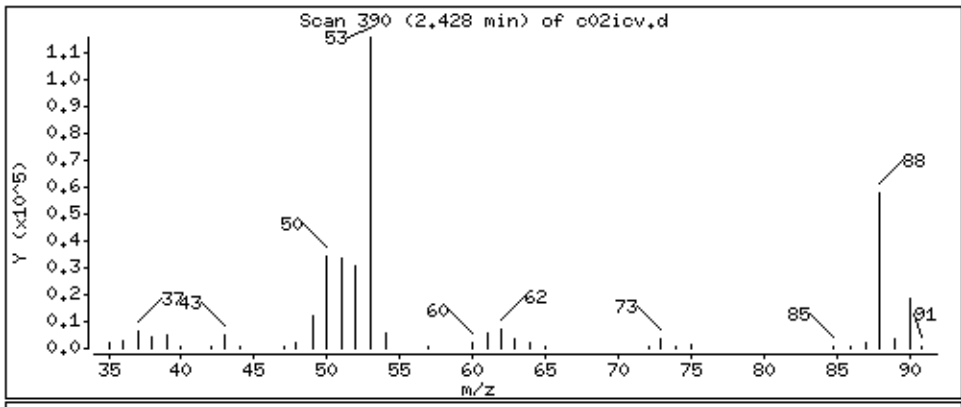
Purge Volume: 5.0

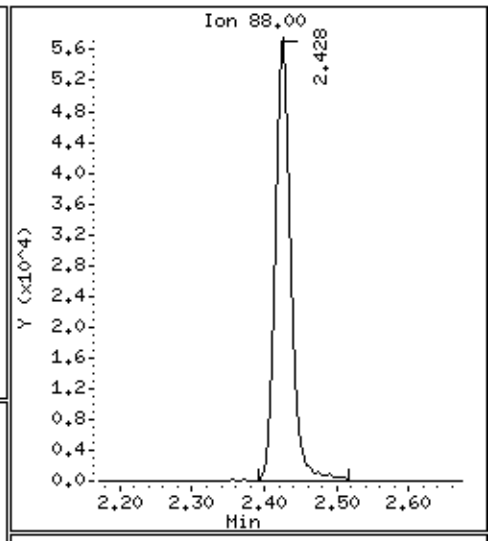
Operator: grm

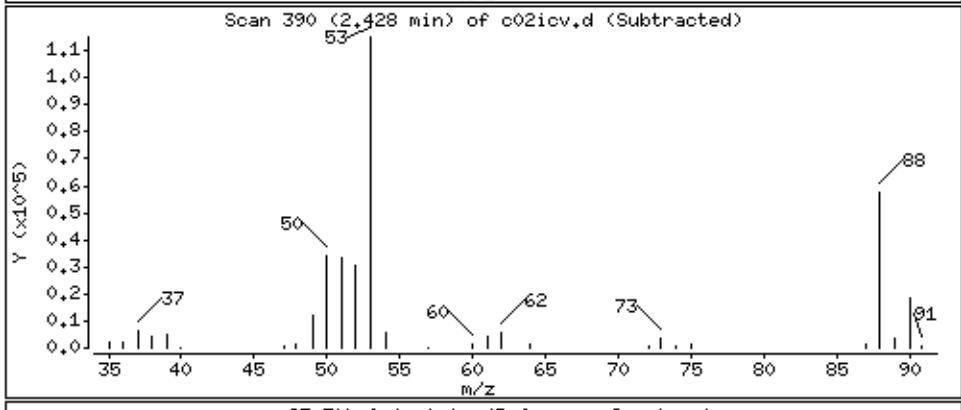
Column phase: DB-624

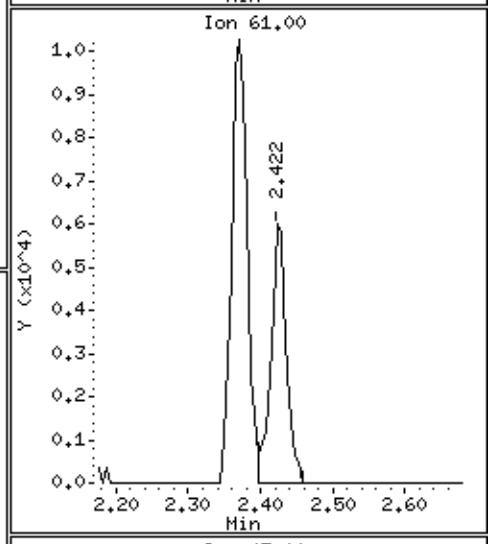
Column diameter: 0.18

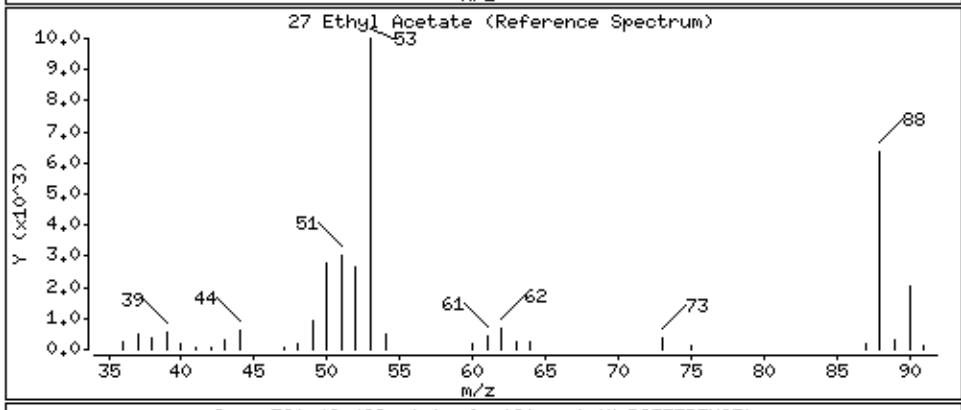
27 Ethyl Acetate

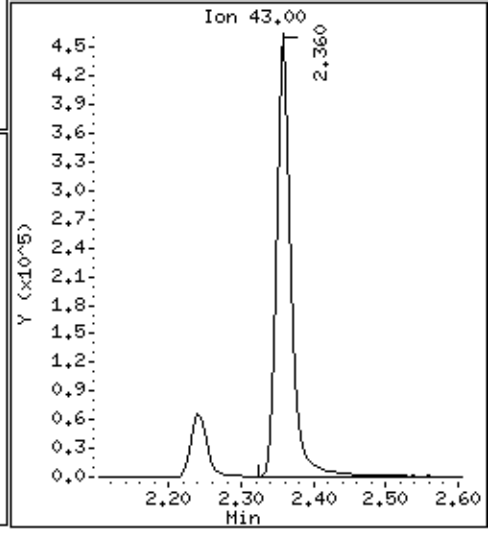


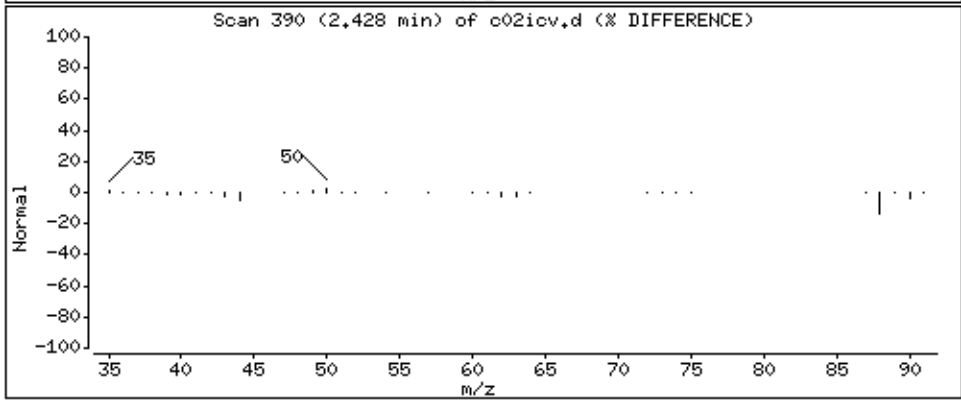












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

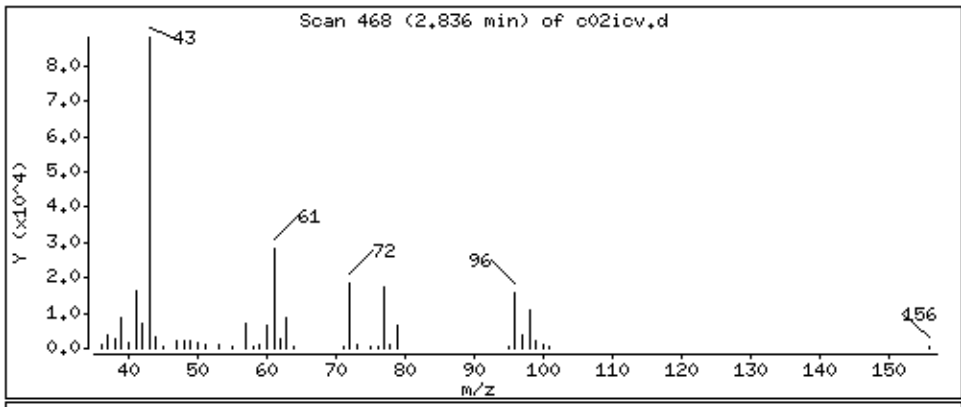
Operator: grm

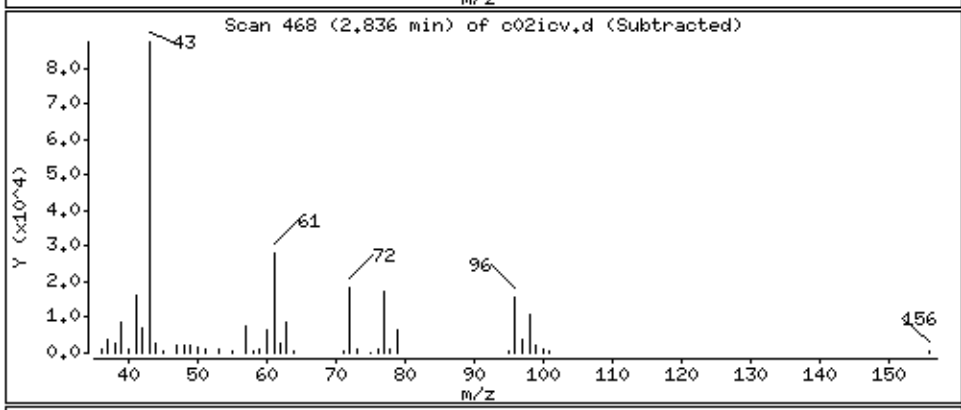
Column phase: DB-624

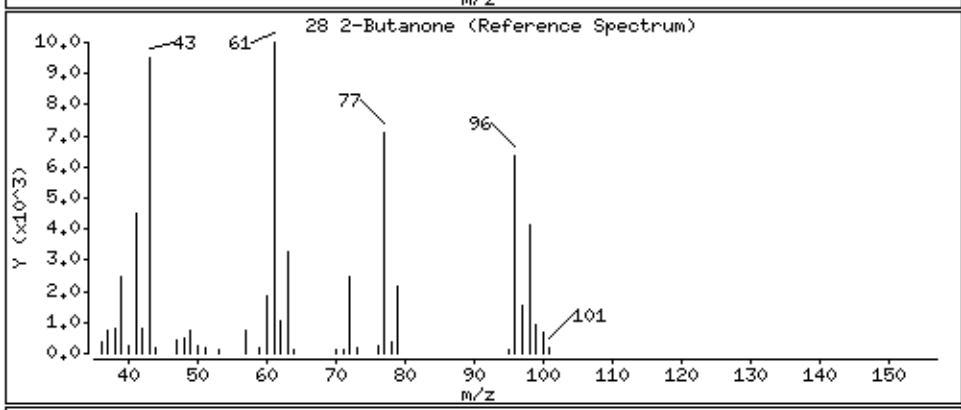
Column diameter: 0.18

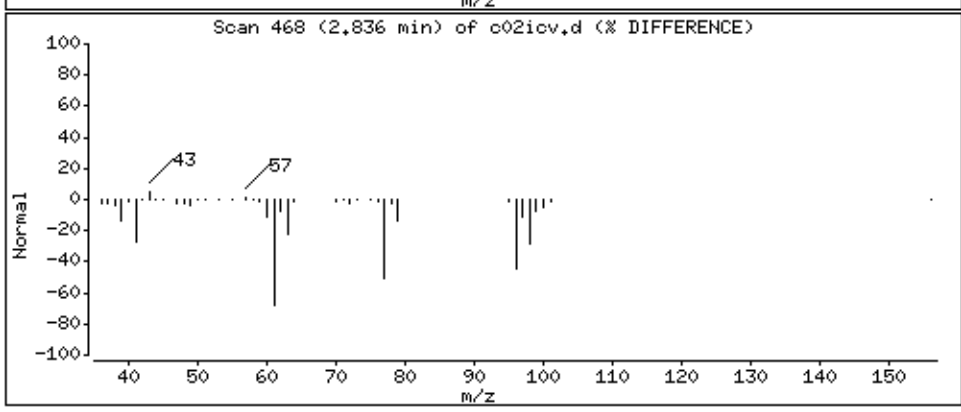
28 2-Butanone

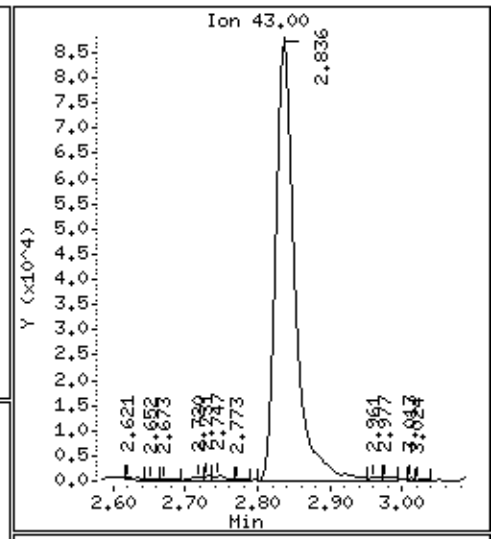
Concentration: 250 ppb

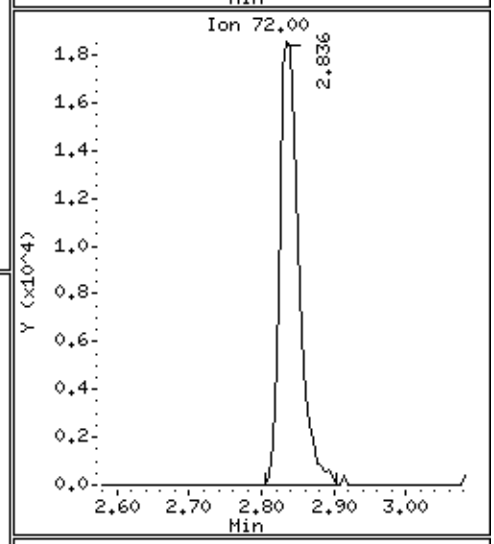


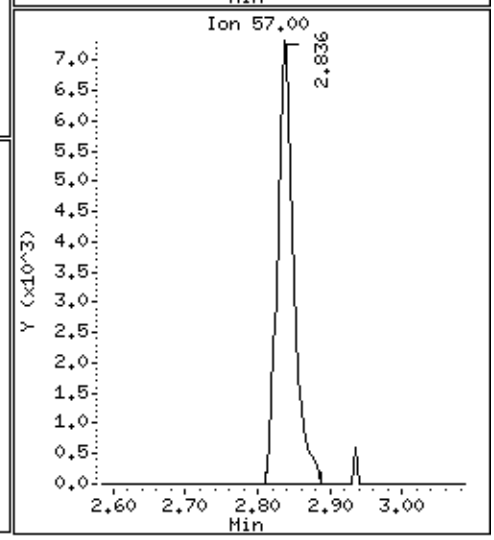












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

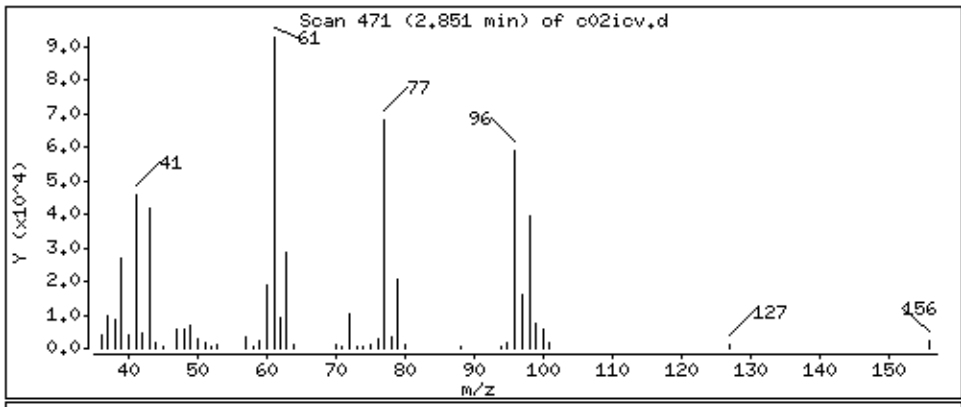
Operator: grm

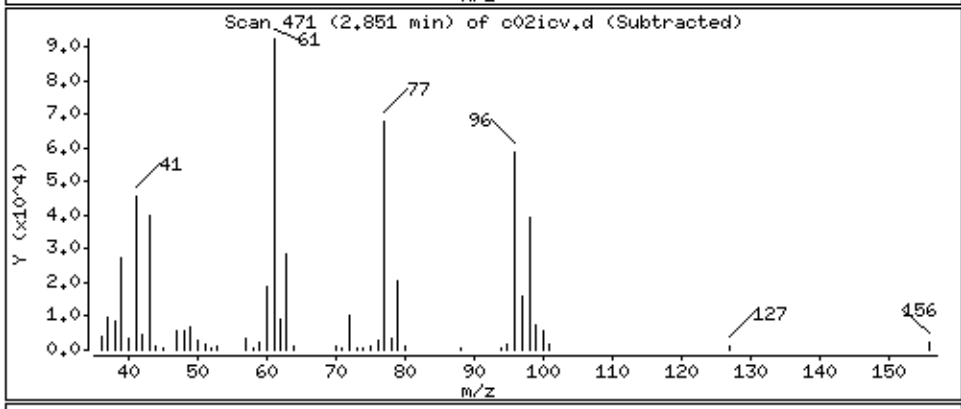
Column phase: DB-624

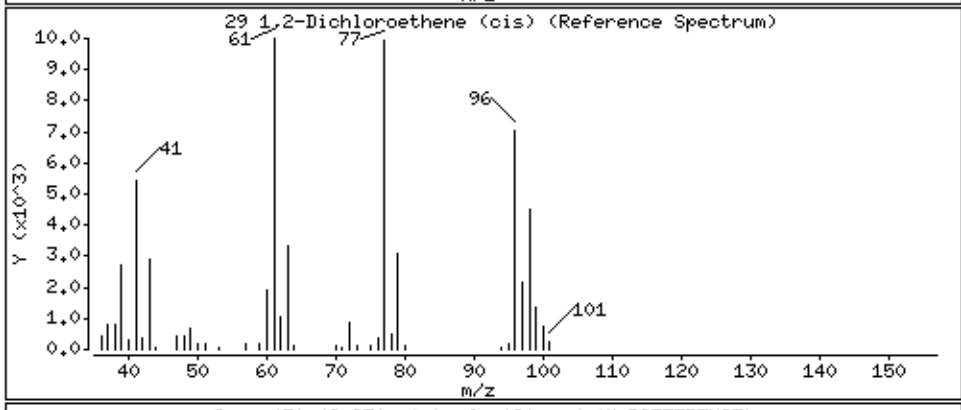
Column diameter: 0.18

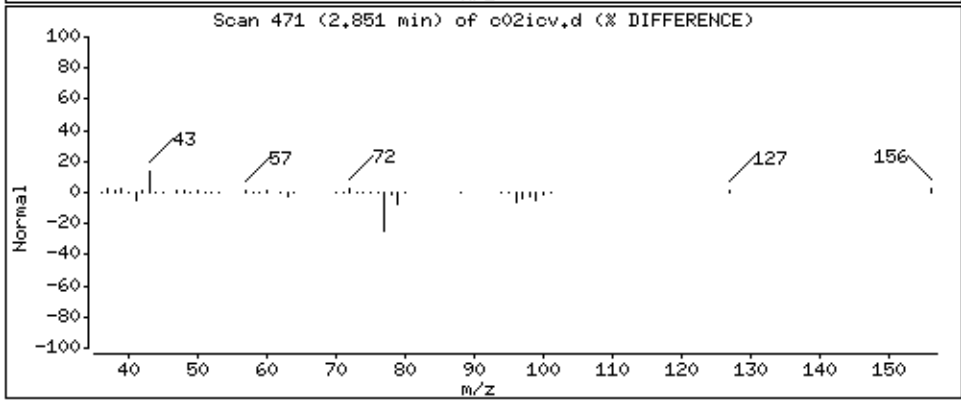
29 1,2-Dichloroethene (cis)

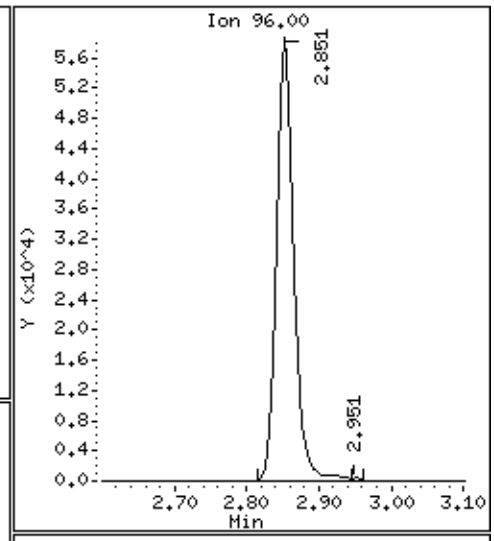
Concentration: 52.2 ppb

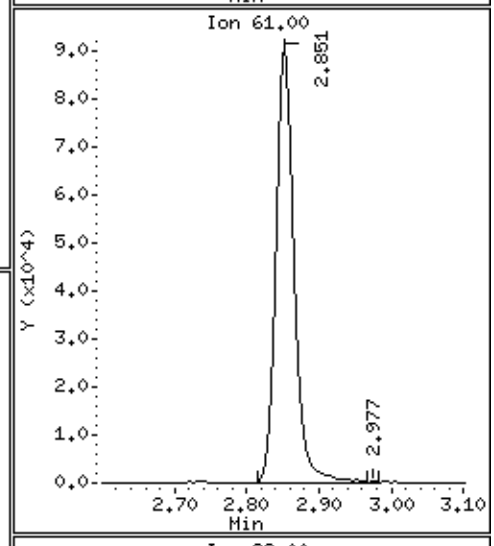


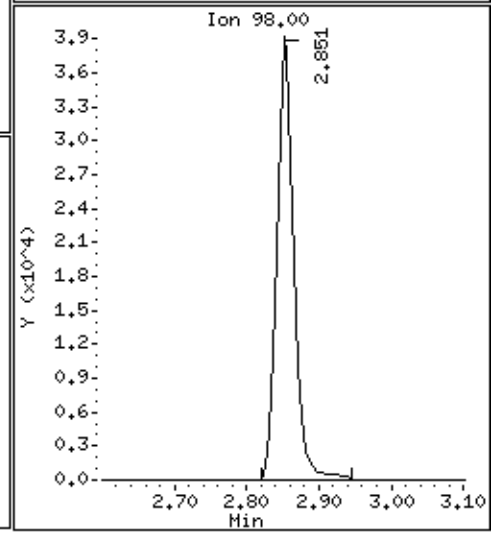












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

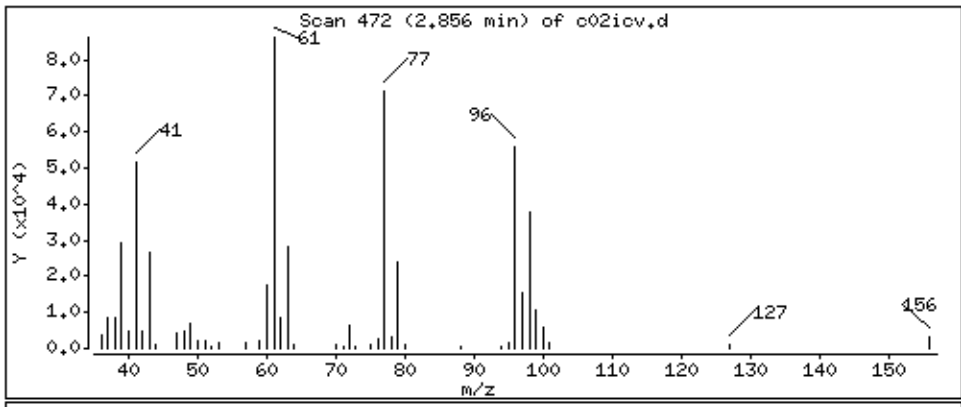
Operator: grm

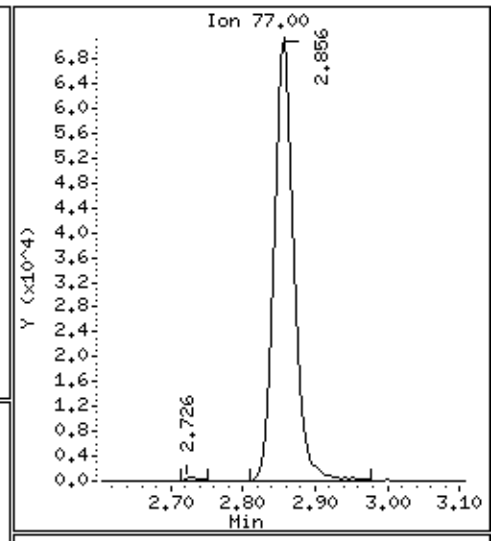
Column phase: DB-624

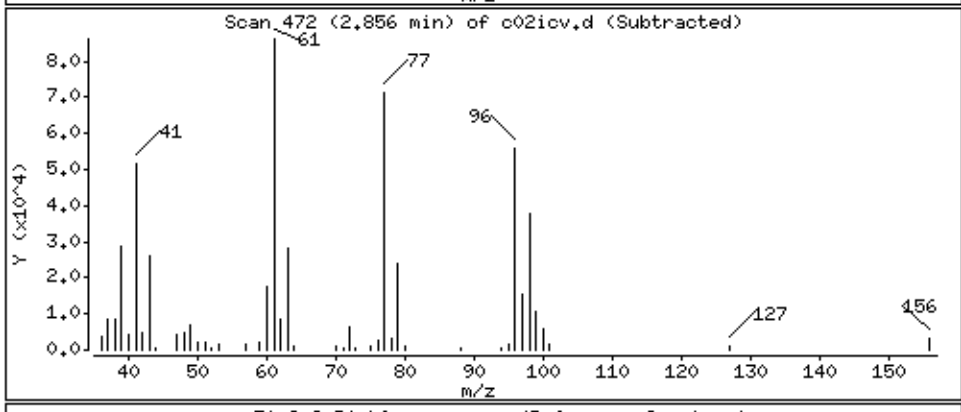
Column diameter: 0.18

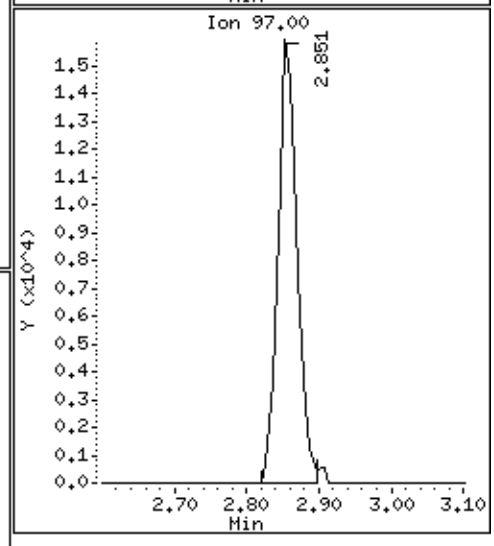
30 2,2-Dichloropropane

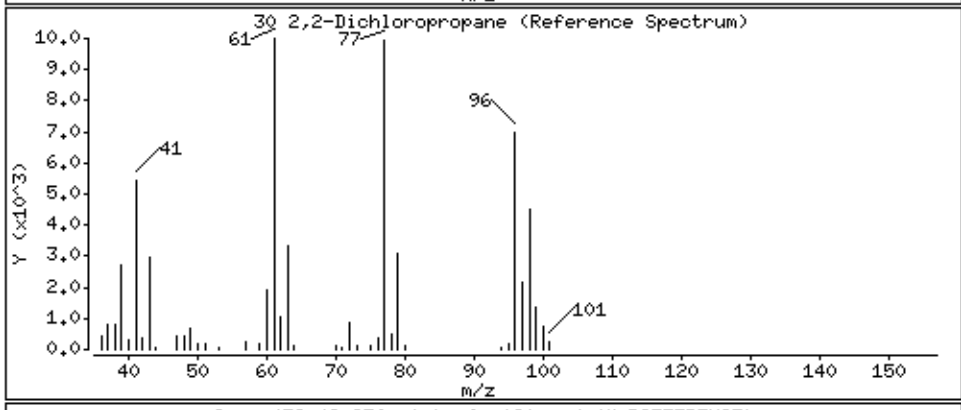
Concentration: 53.9 ppb

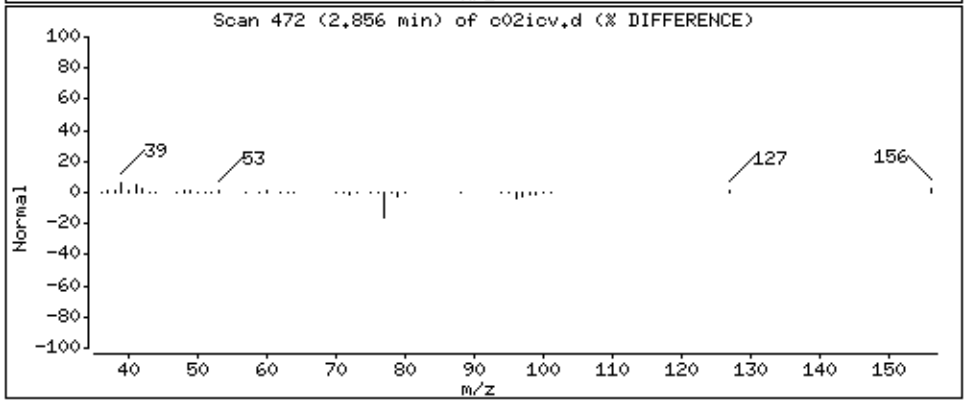












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

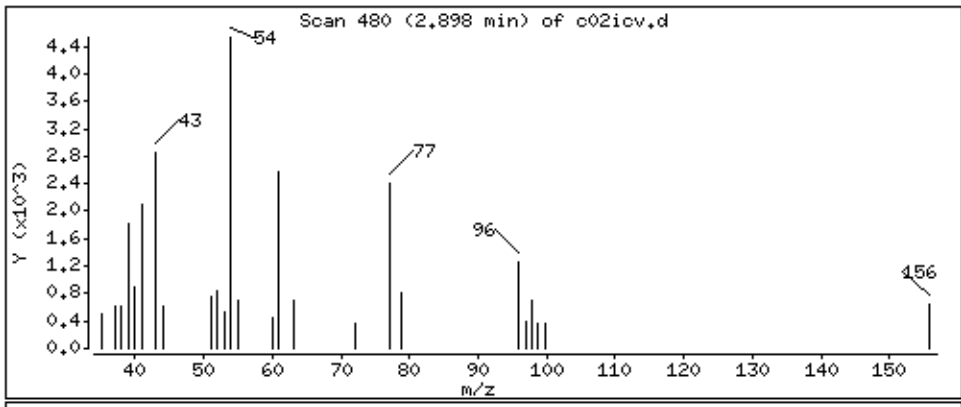
Operator: grm

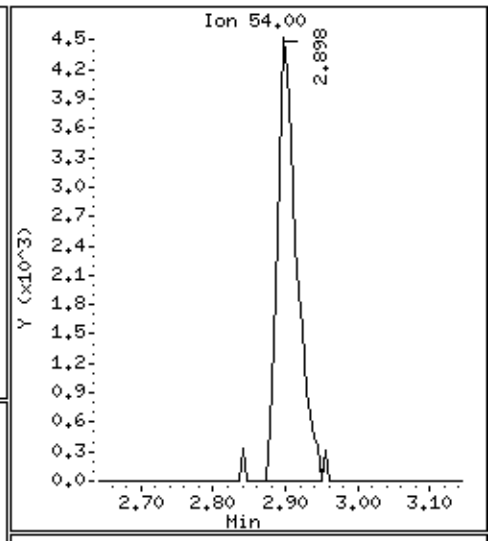
Column phase: DB-624

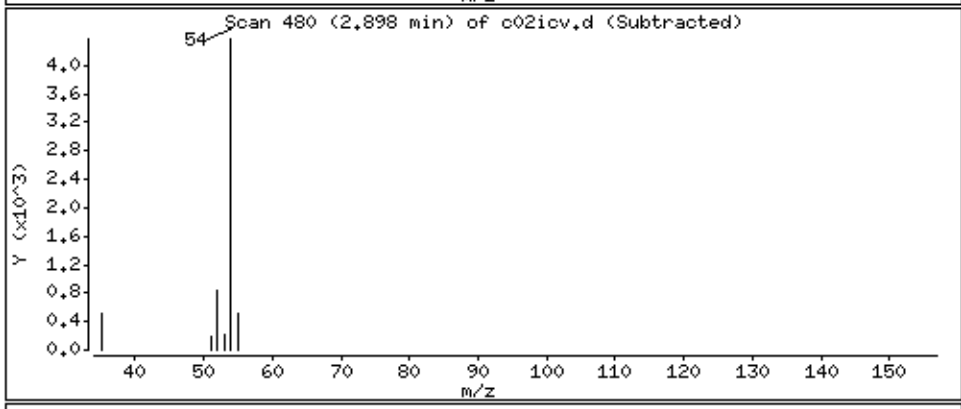
Column diameter: 0.18

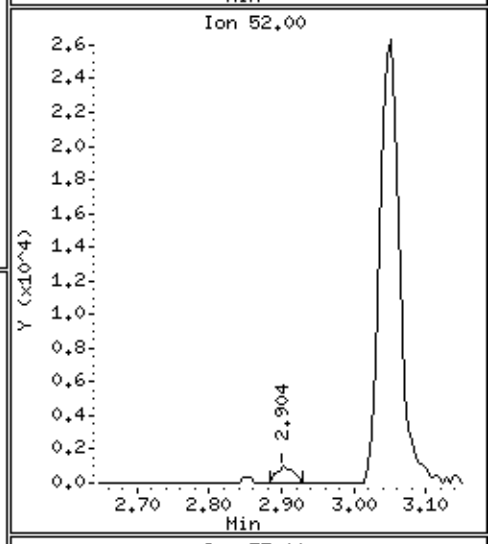
31 Propionitrile

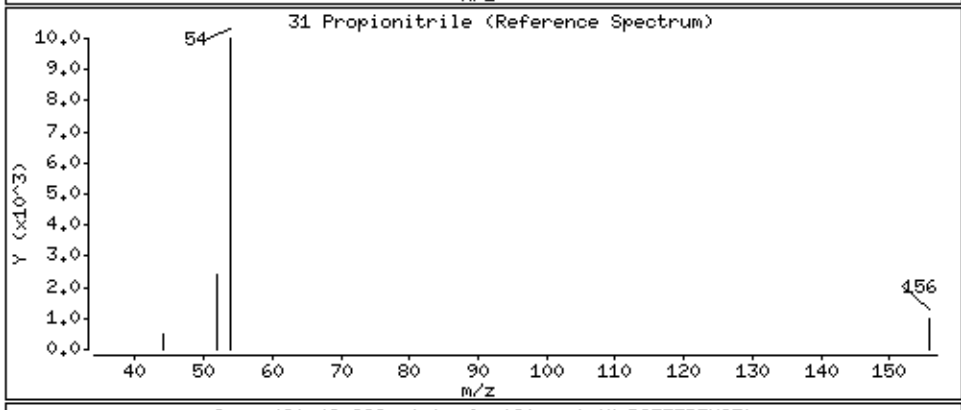
Concentration: 48.8 ppb

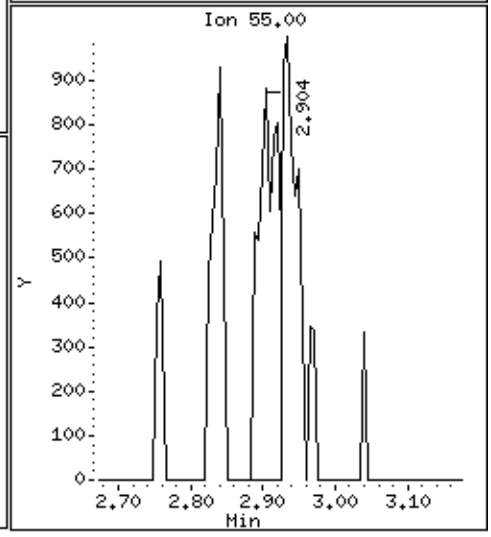


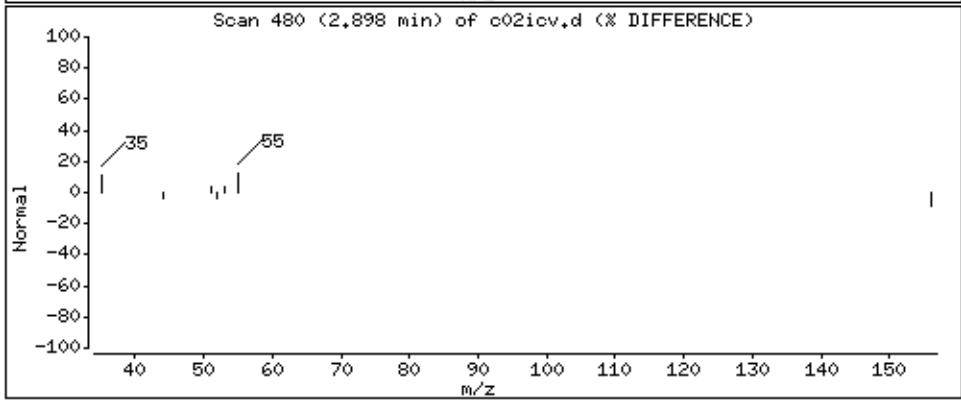












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

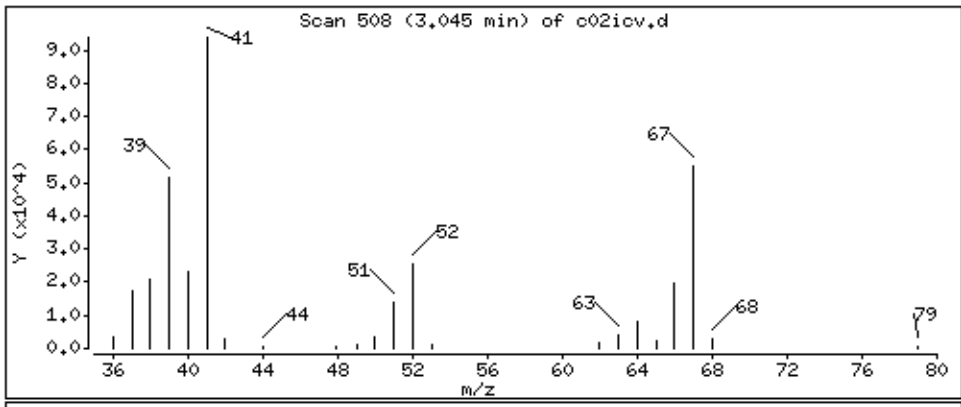
Operator: grm

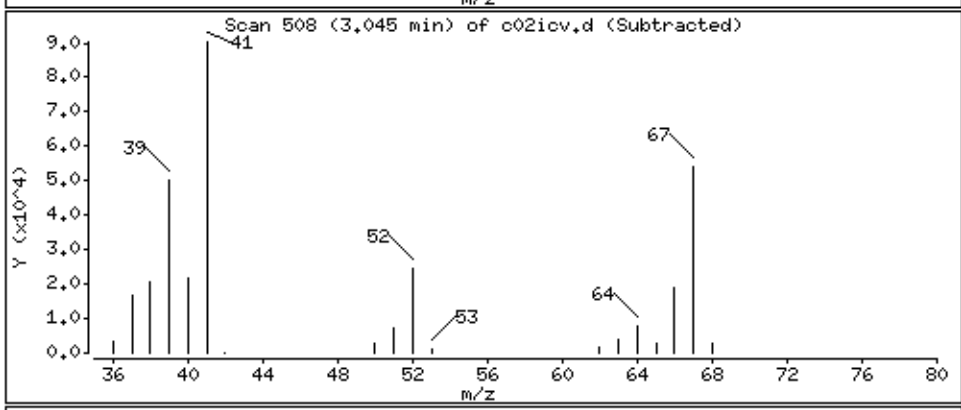
Column phase: DB-624

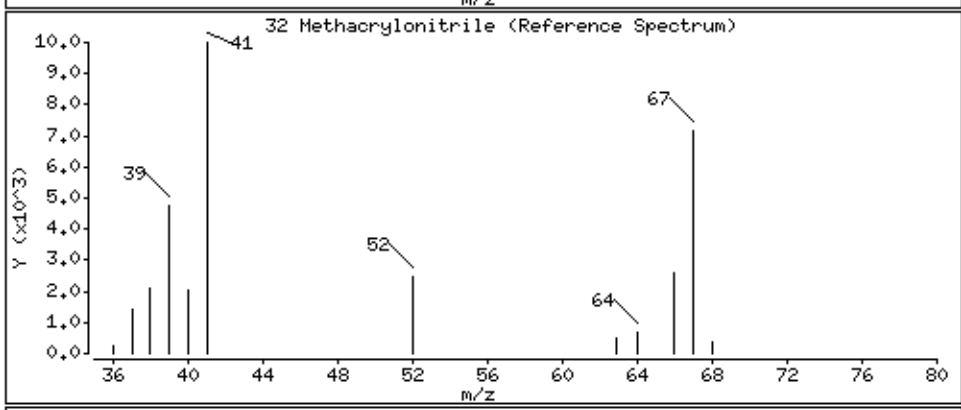
Column diameter: 0.18

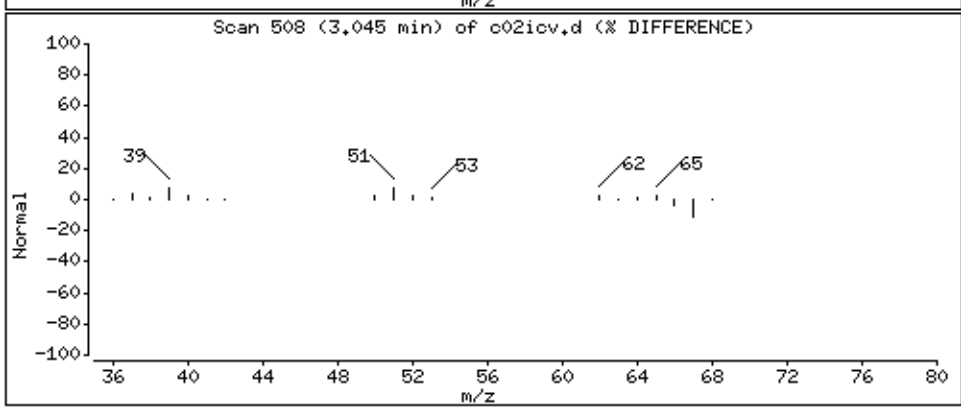
32 Methacrylonitrile

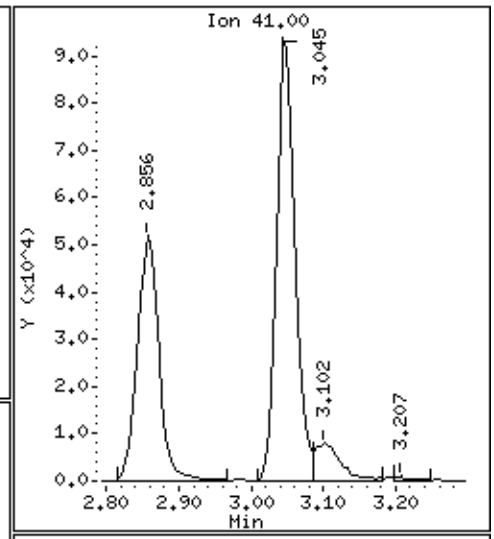
Concentration: 196 ppb

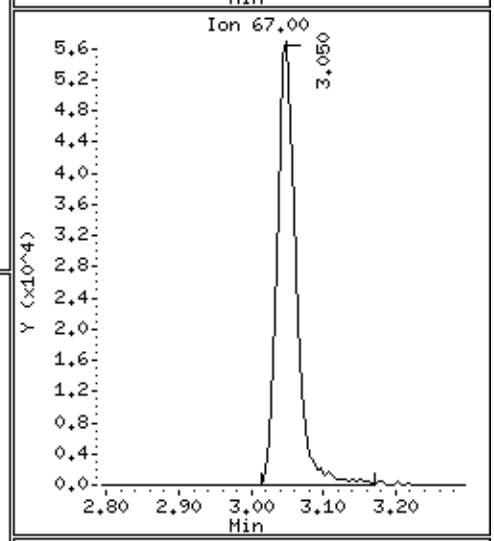


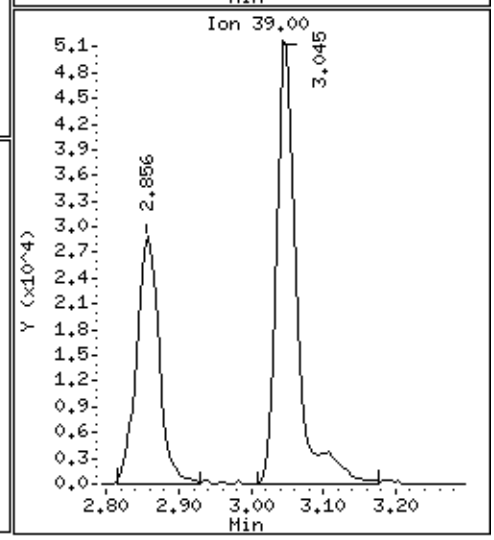












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

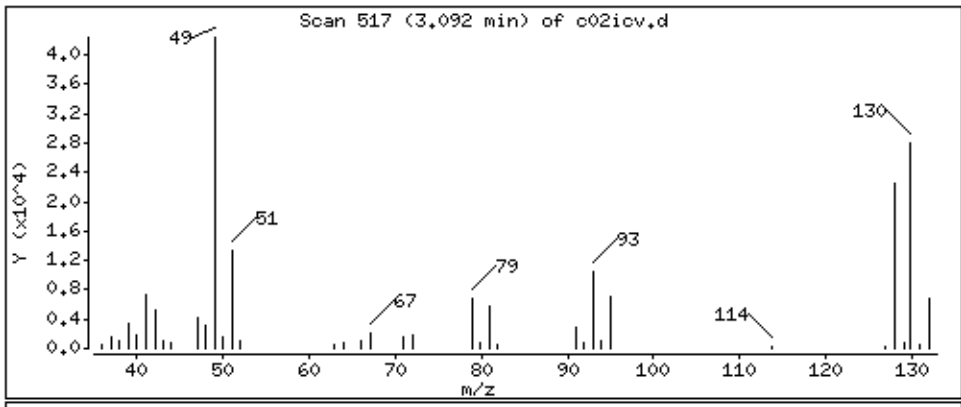
Operator: grm

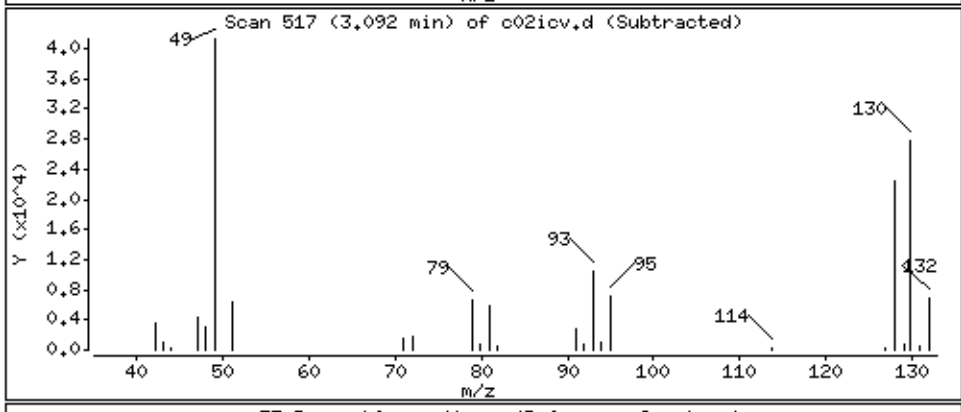
Column phase: DB-624

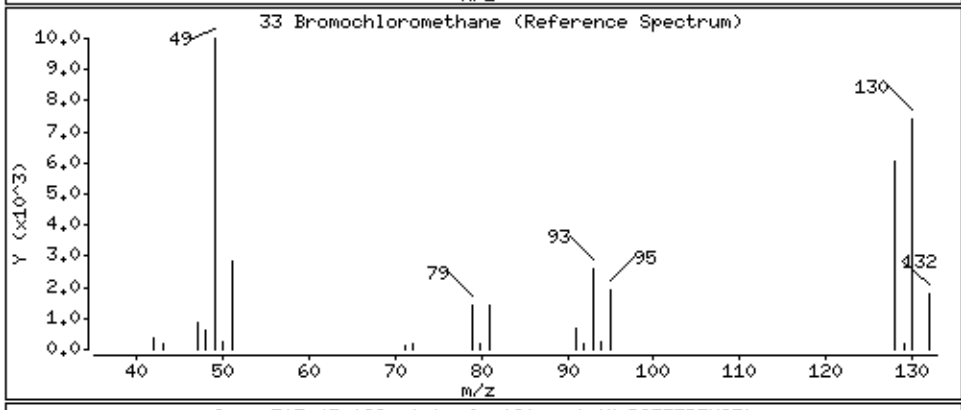
Column diameter: 0.18

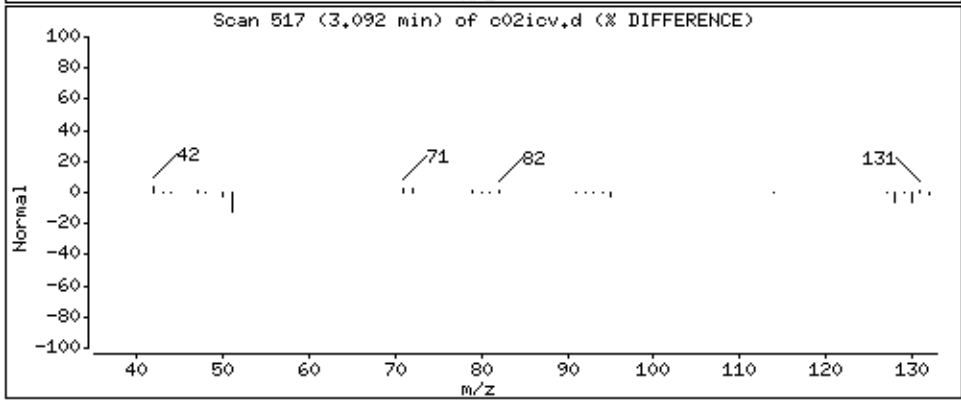
33 Bromochloromethane

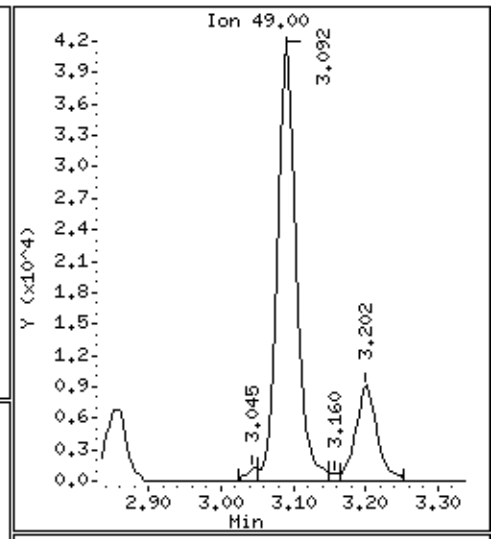
Concentration: 56.5 ppb

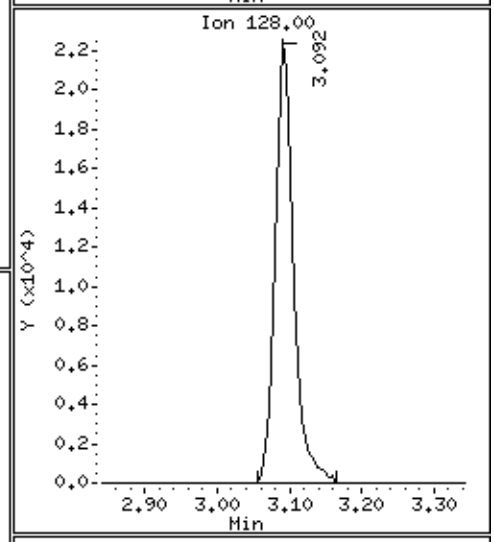


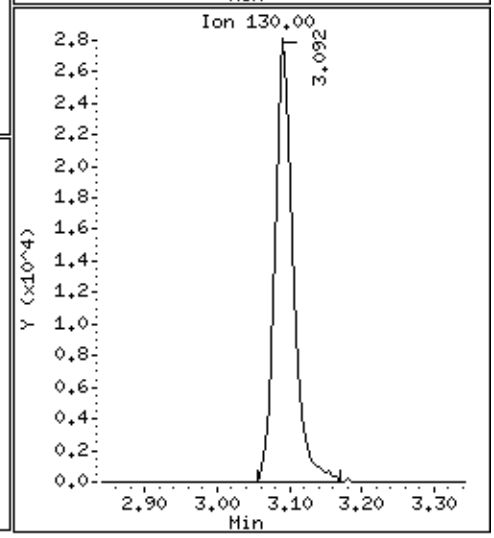












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

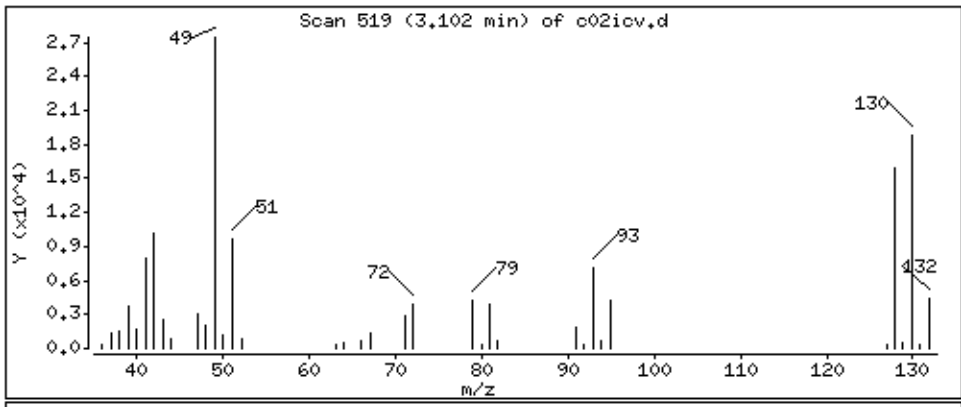
Operator: grm

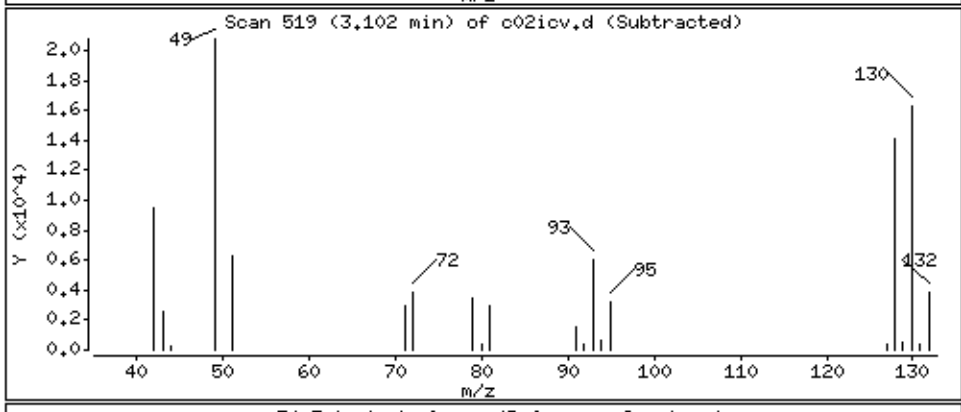
Column phase: DB-624

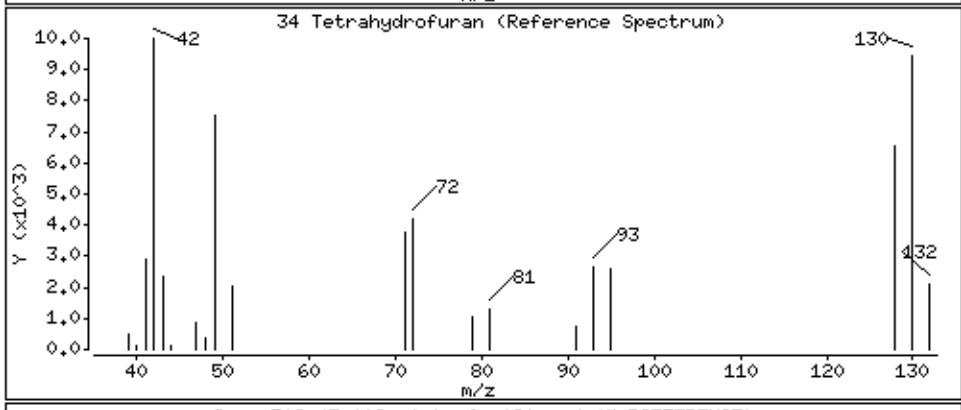
Column diameter: 0.18

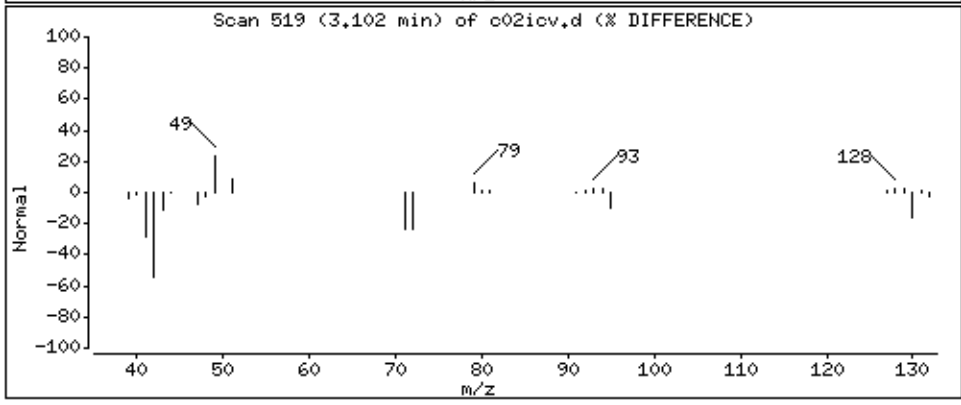
34 Tetrahydrofuran

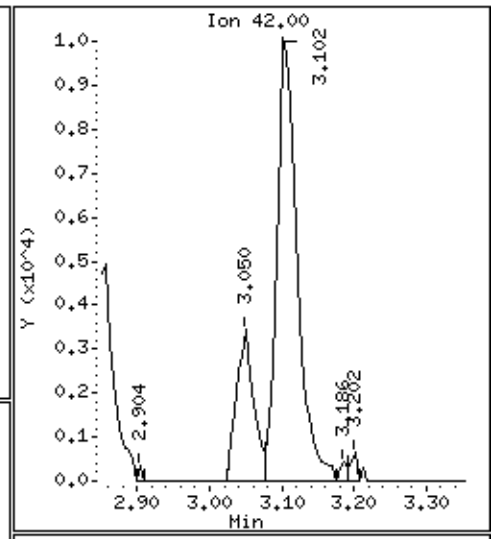
Concentration: 53.5 ppb

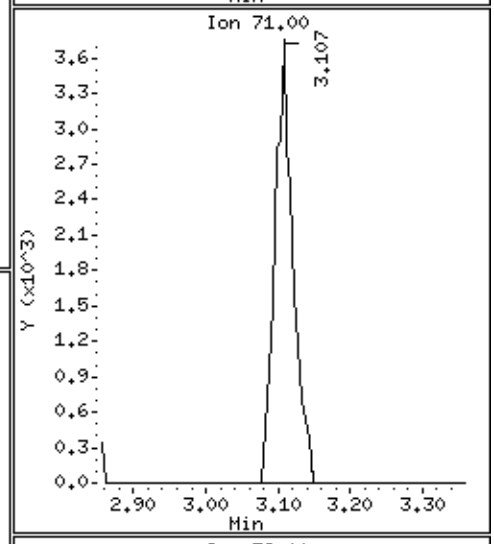


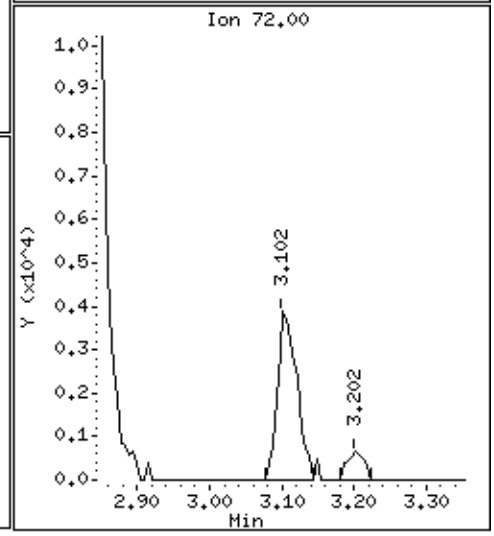












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

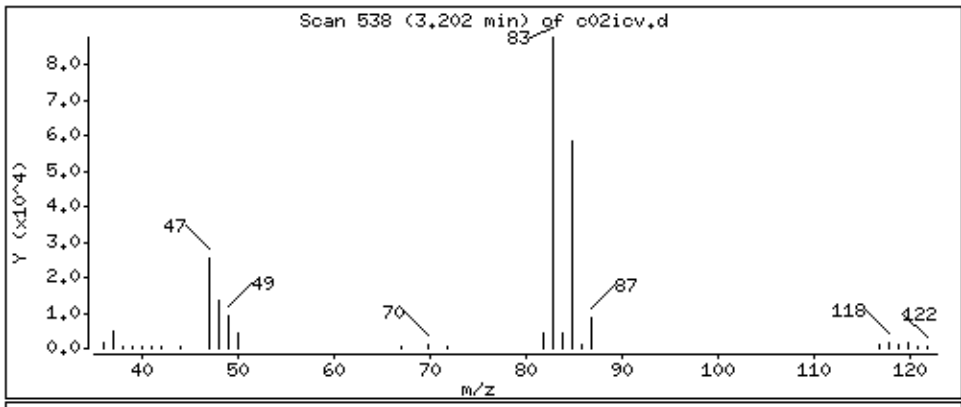
Operator: grm

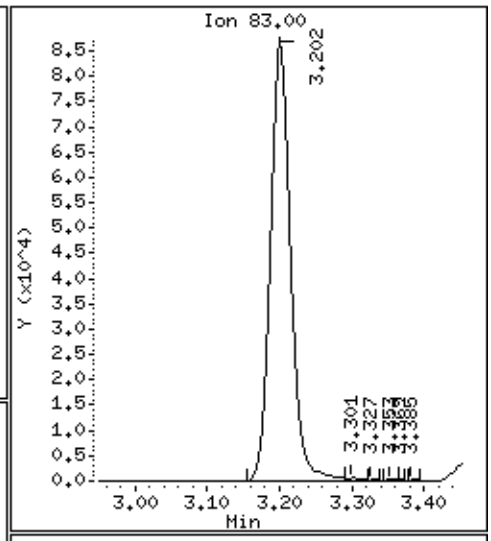
Column phase: DB-624

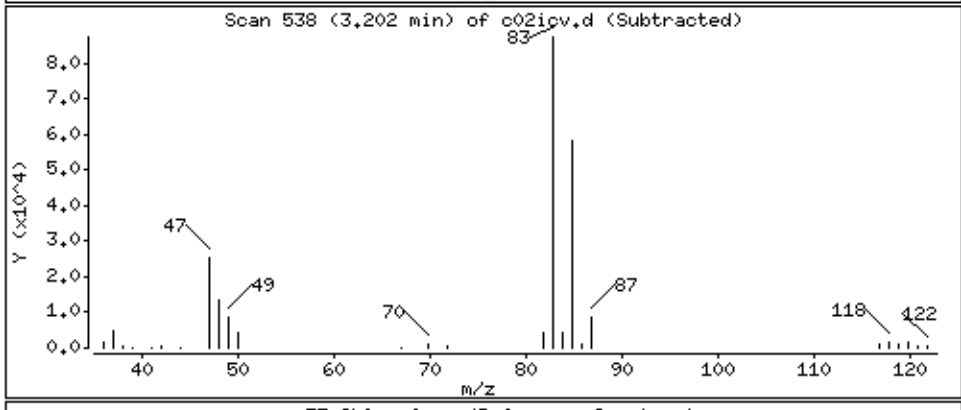
Column diameter: 0.18

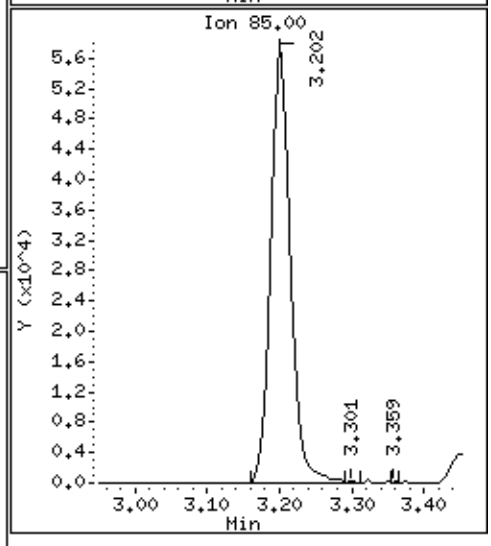
35 Chloroform

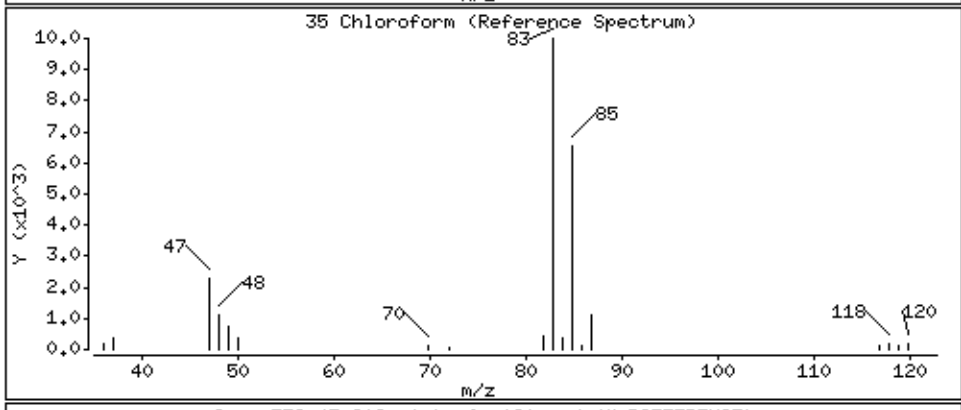
Concentration: 51.9 ppb

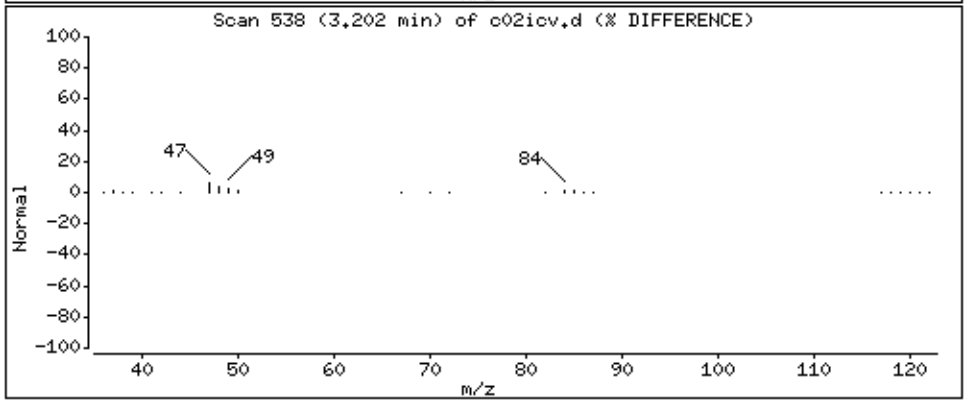












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

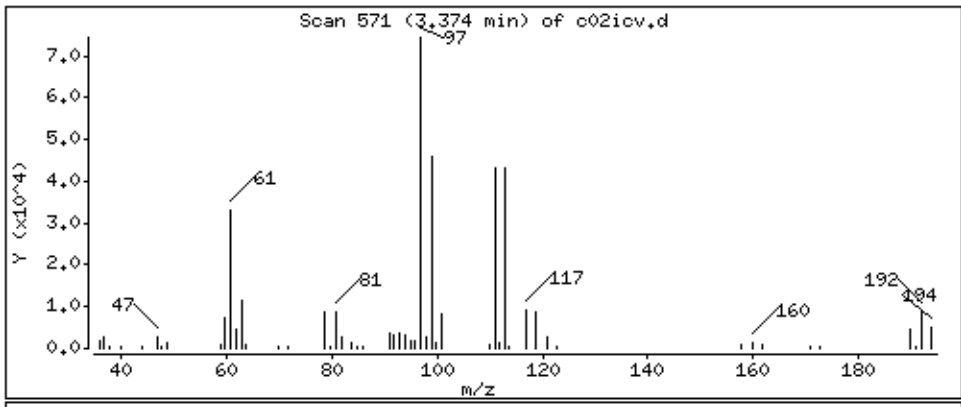
Purge Volume: 5.0

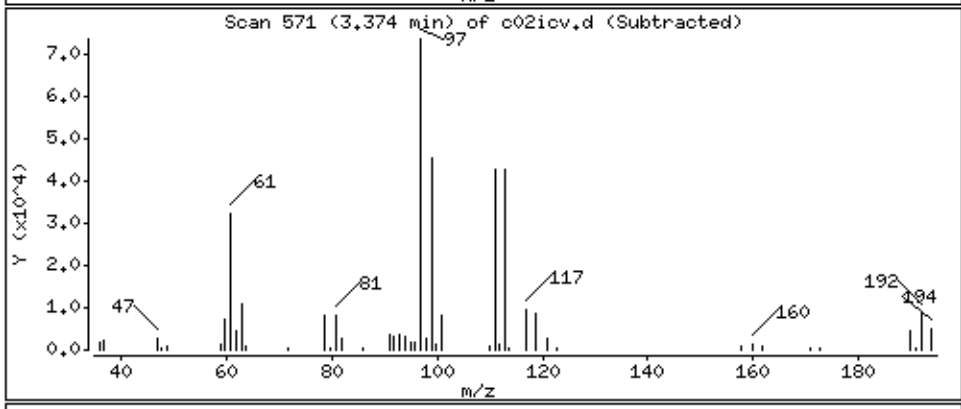
Operator: grm

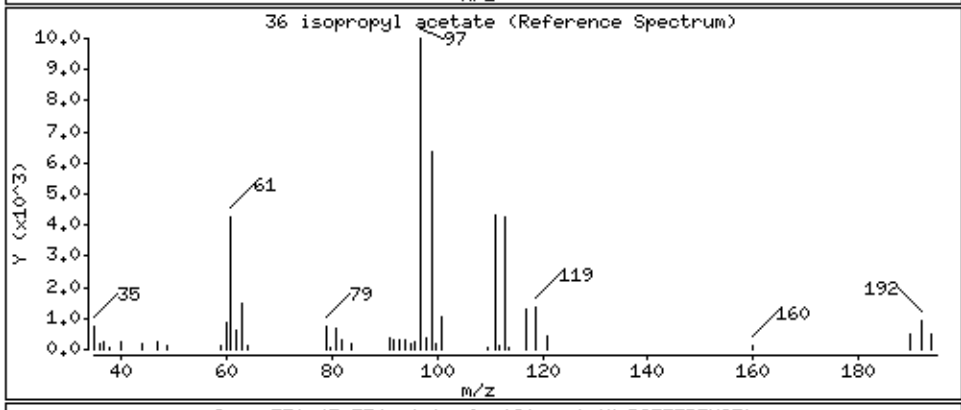
Column phase: DB-624

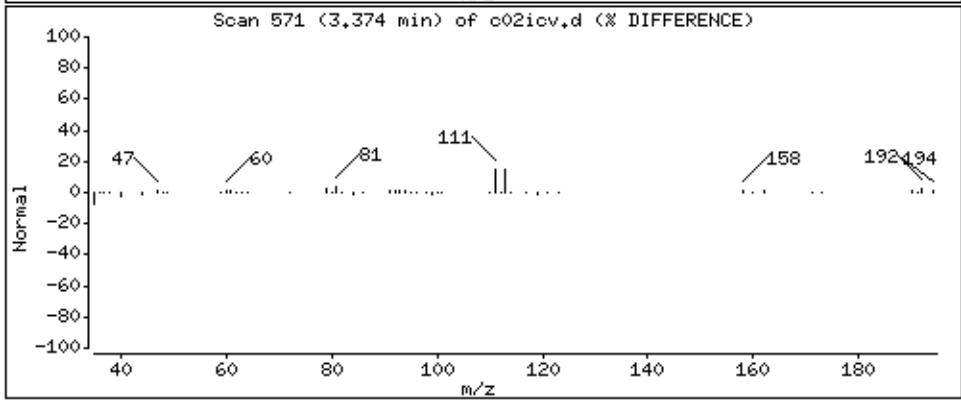
Column diameter: 0.18

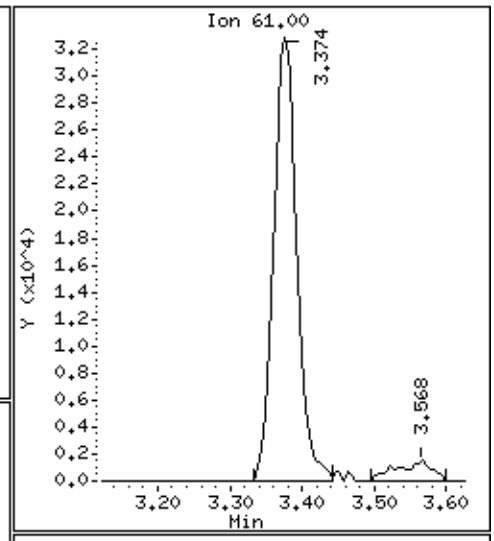
36 isopropyl acetate

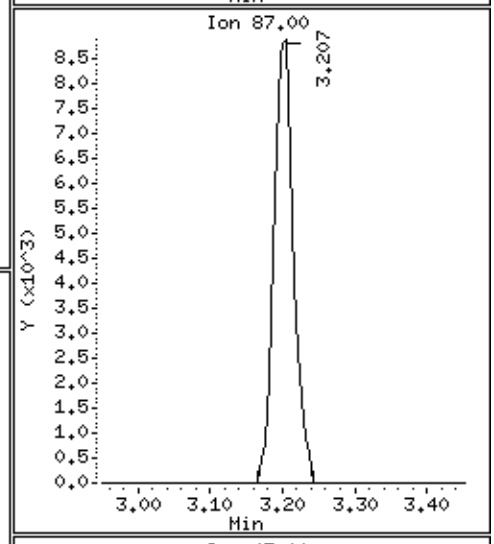


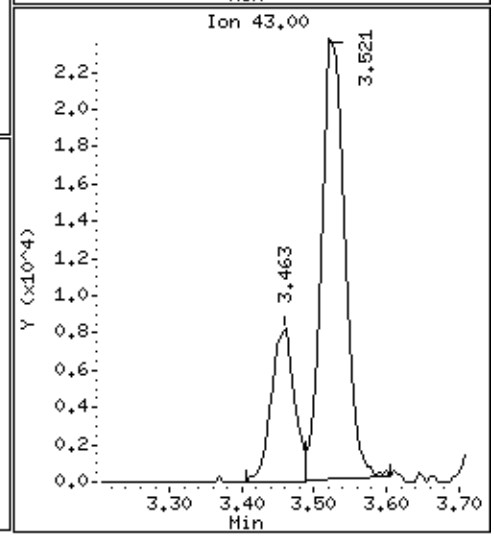












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

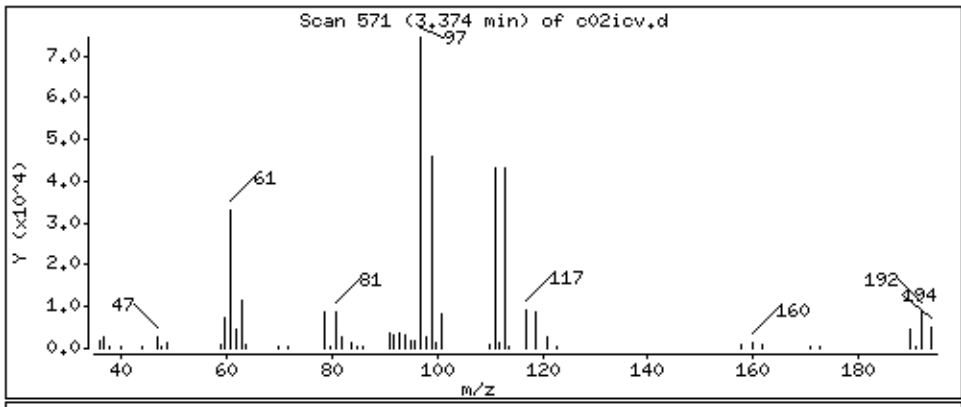
Operator: grm

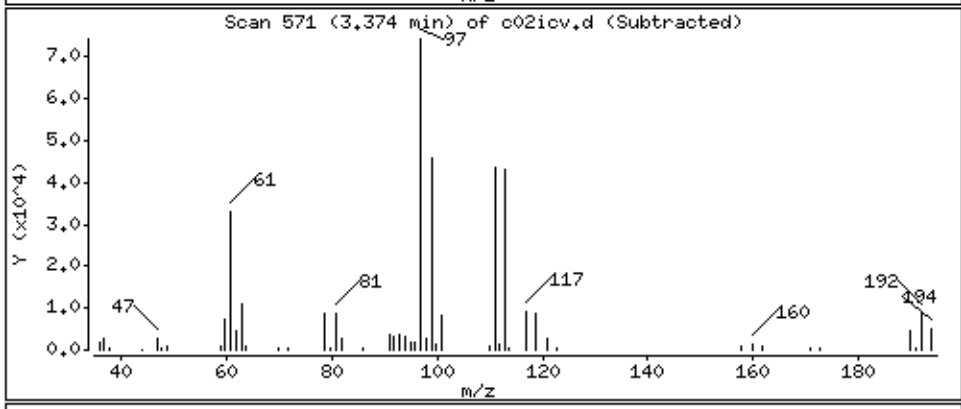
Column phase: DB-624

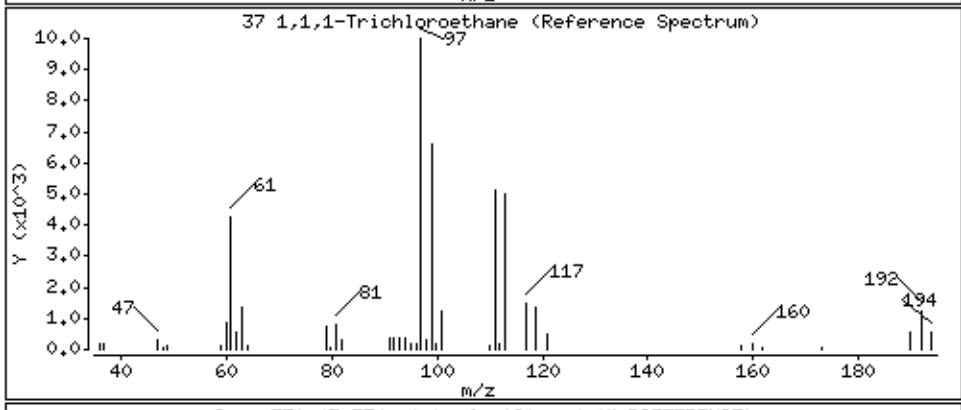
Column diameter: 0.18

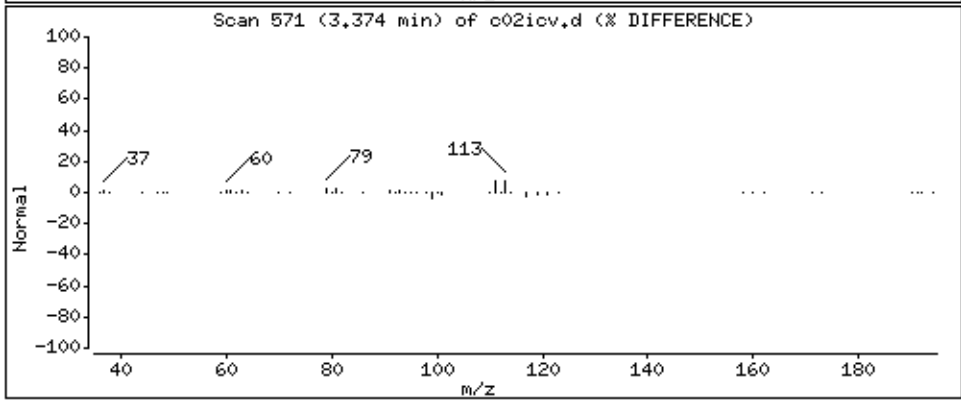
37 1,1,1-Trichloroethane

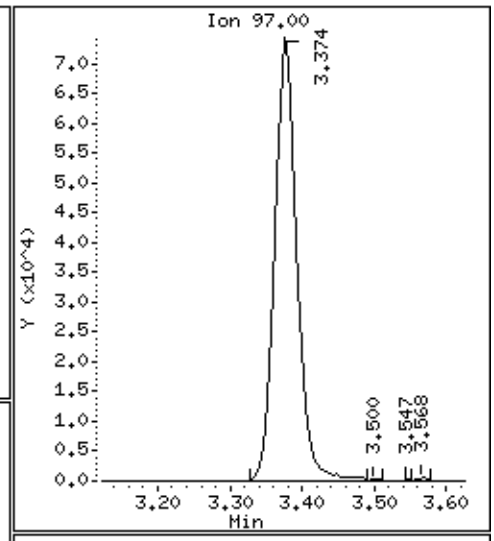
Concentration: 54.6 ppb

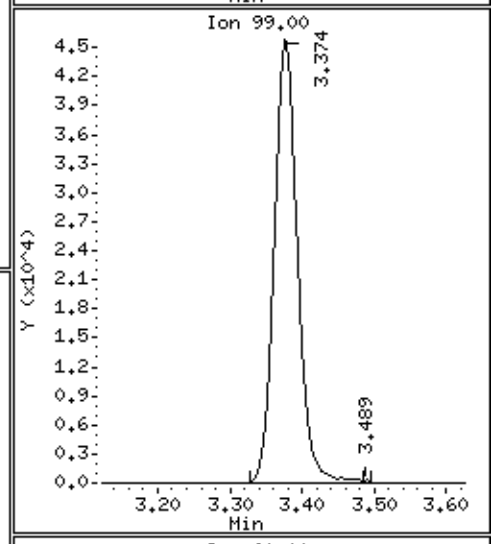


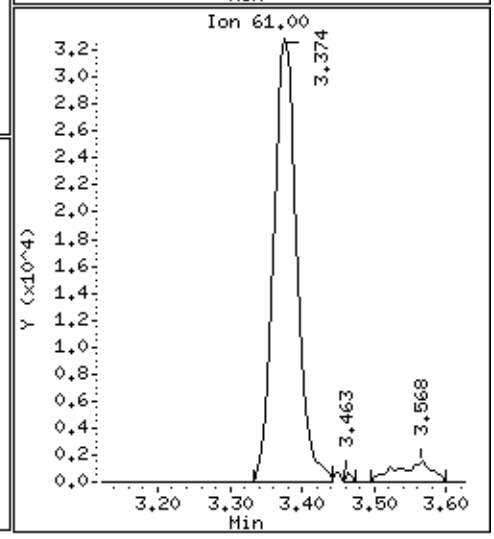












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

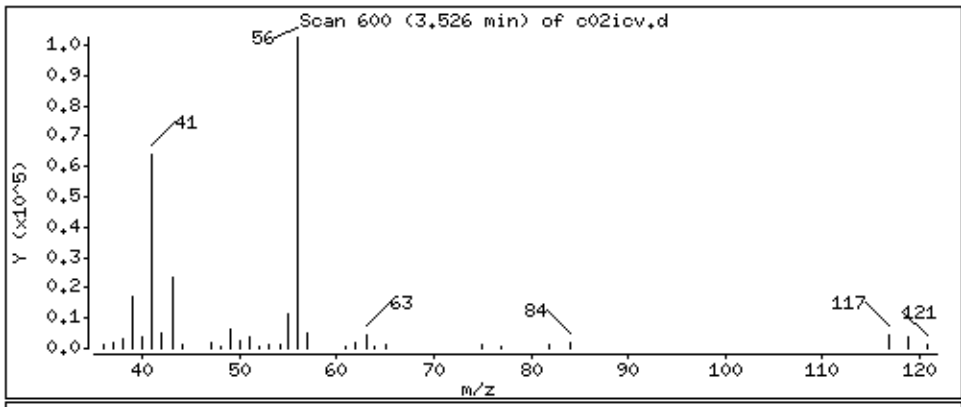
Operator: grm

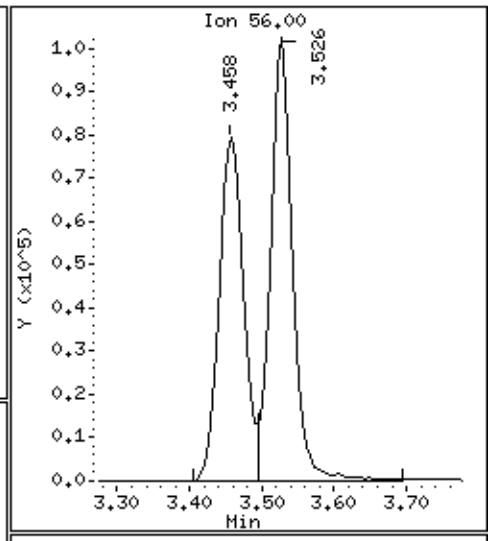
Column phase: DB-624

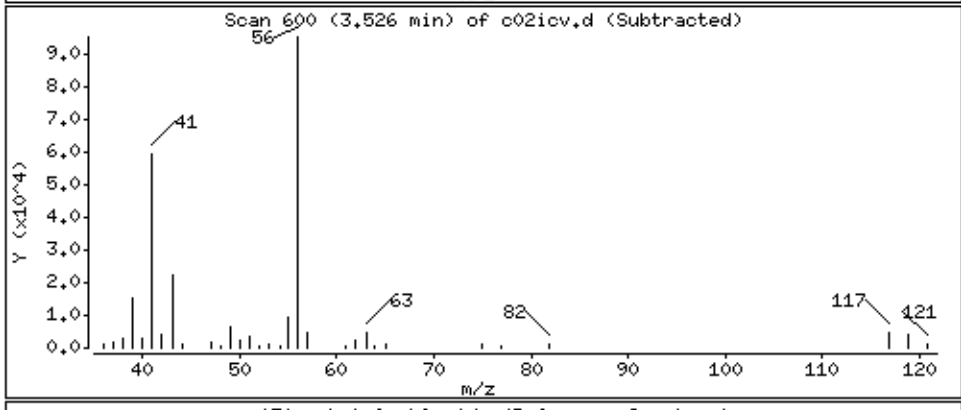
Column diameter: 0.18

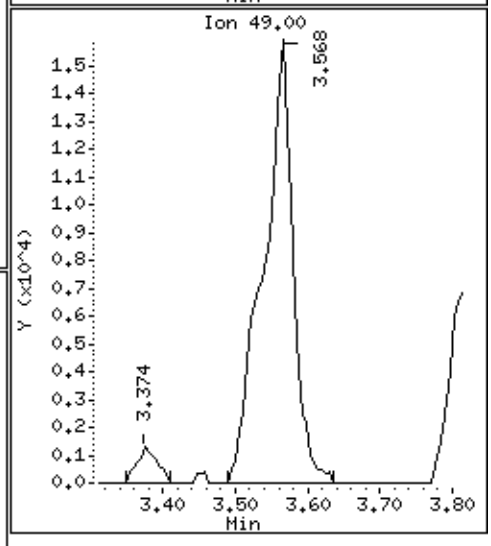
150 n-butyl chloride

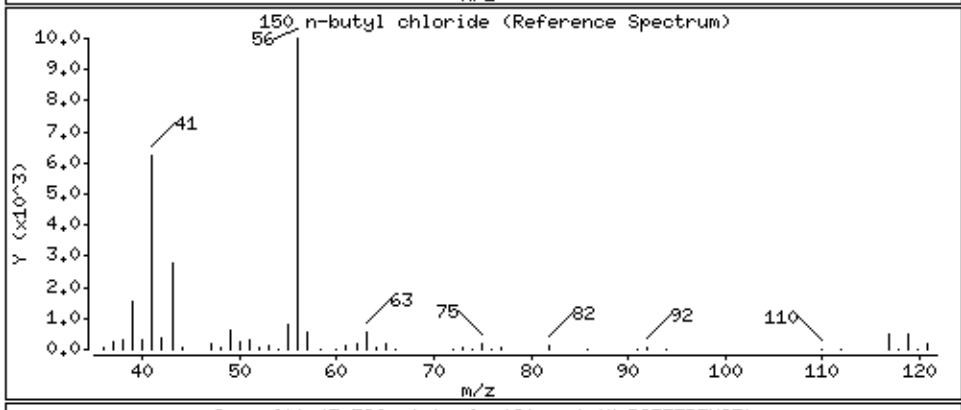
Concentration: 52.6 ppb

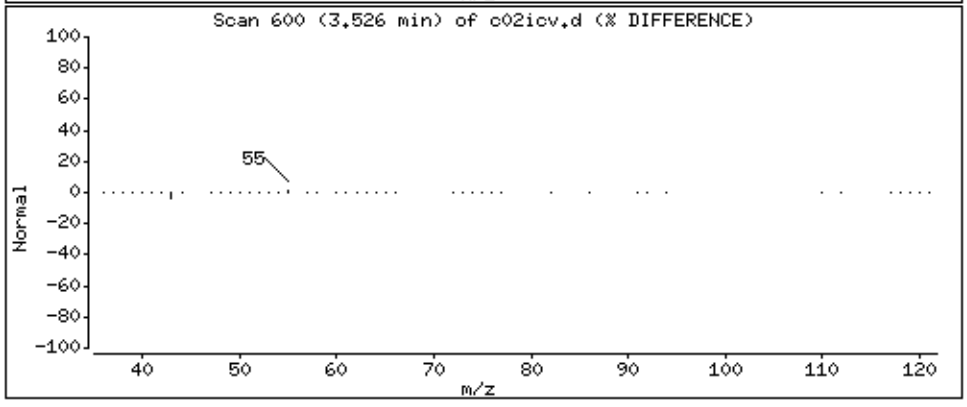












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 43

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

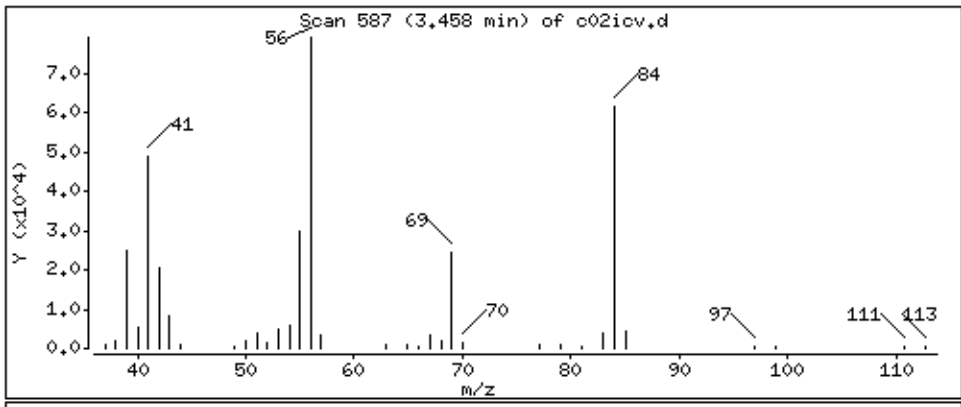
Operator: grm

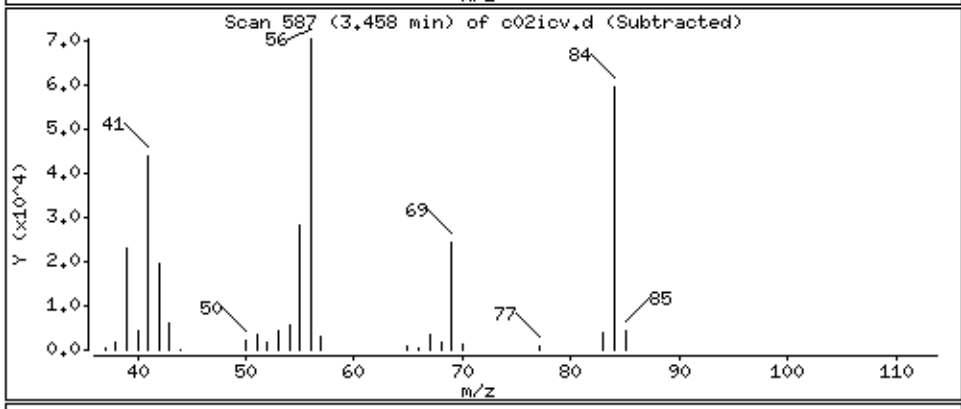
Column phase: DB-624

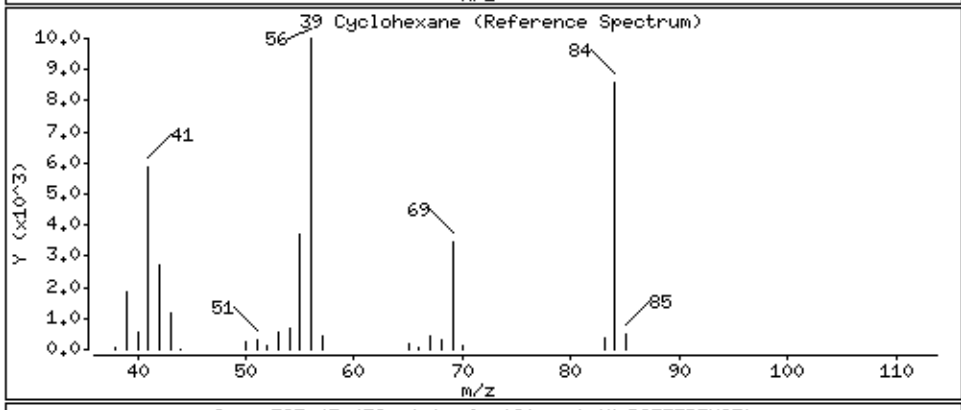
Column diameter: 0.18

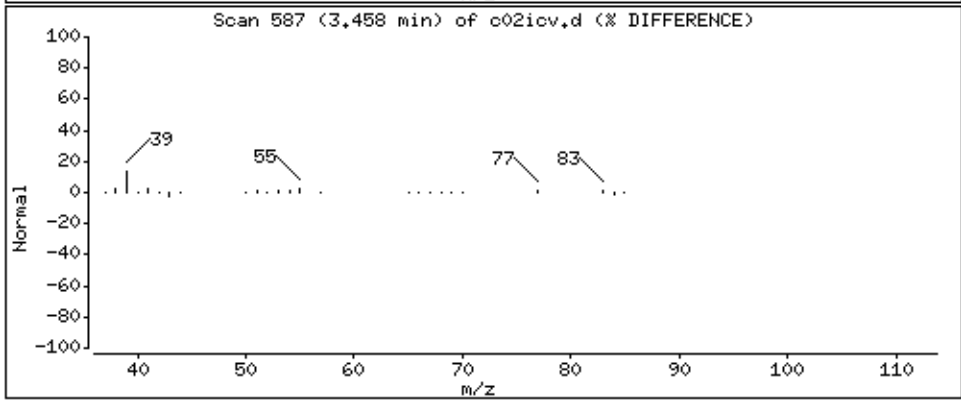
39 Cyclohexane

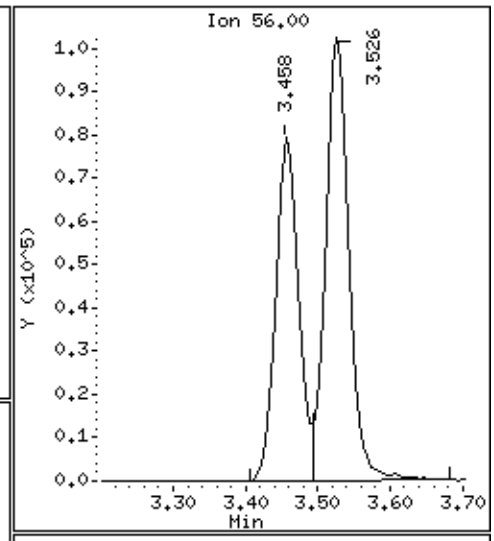
Concentration: 51.2 ppb

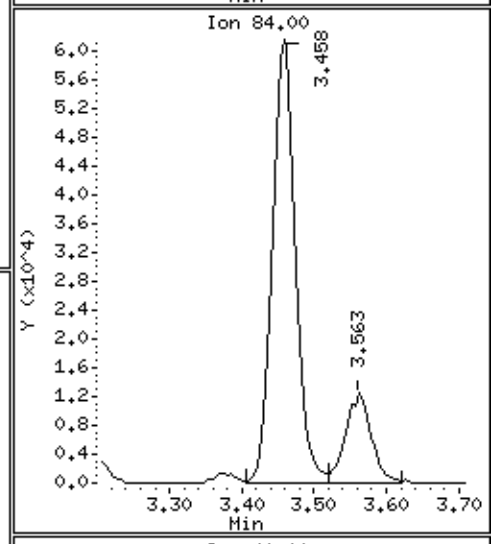


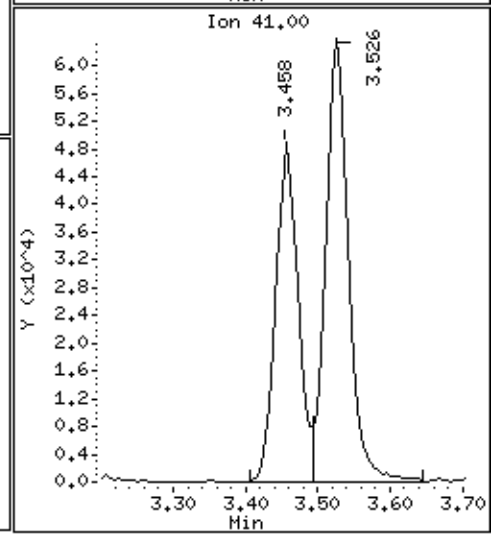












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

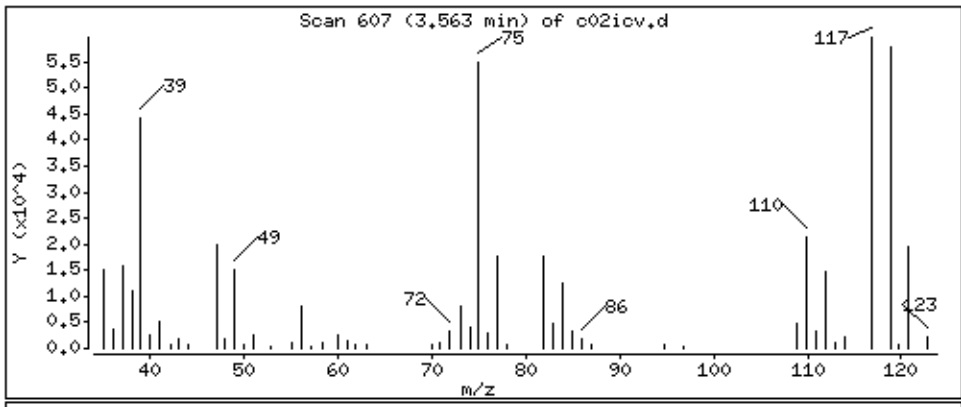
Operator: grm

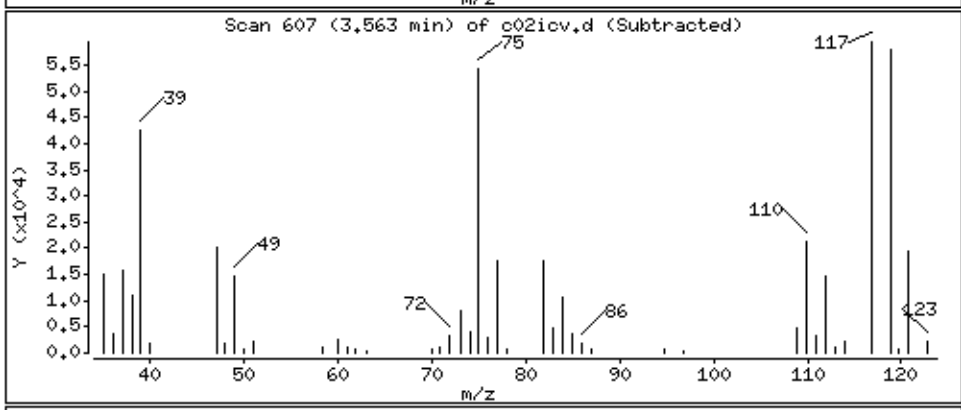
Column phase: DB-624

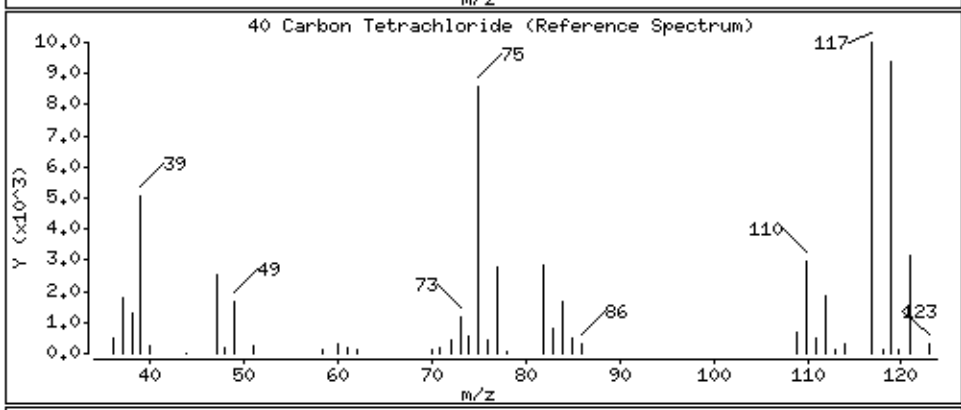
Column diameter: 0.18

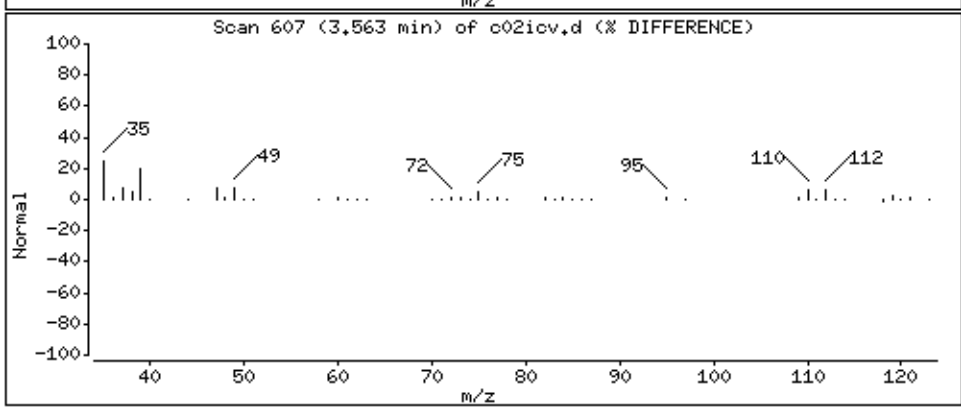
40 Carbon Tetrachloride

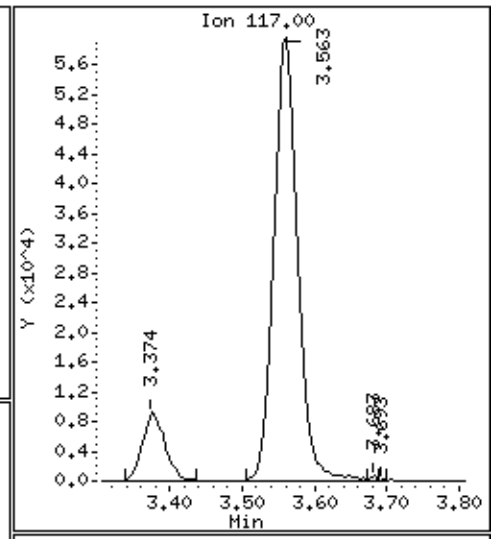
Concentration: 56.4 ppb

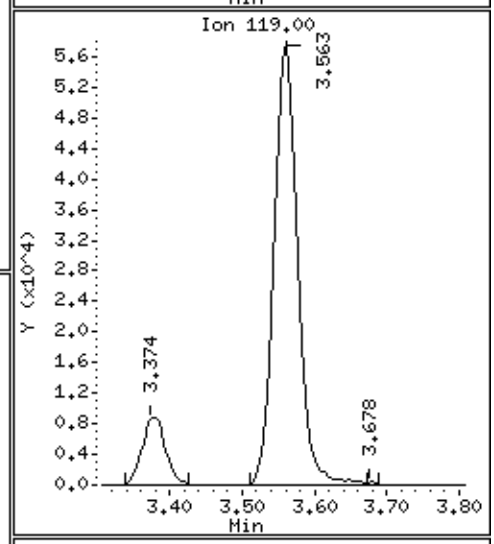


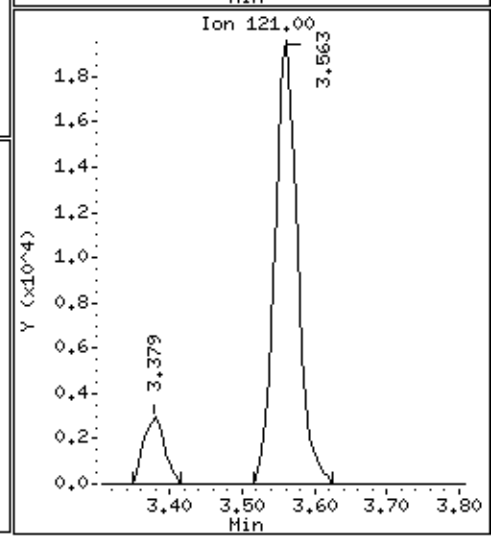












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

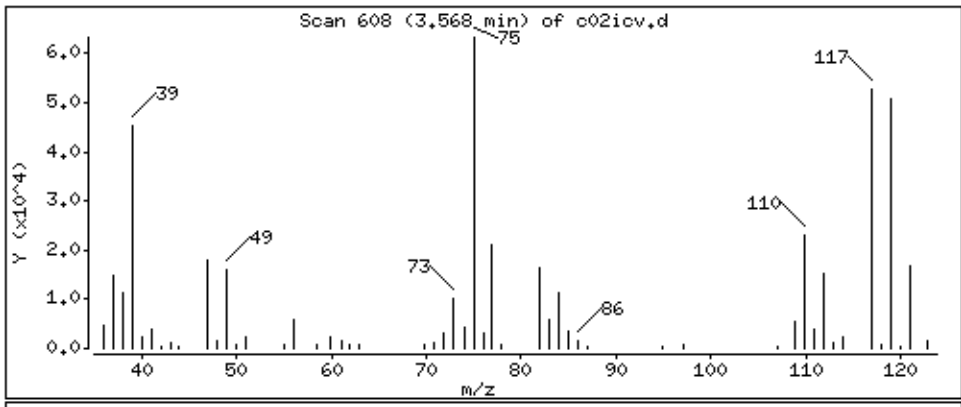
Operator: grm

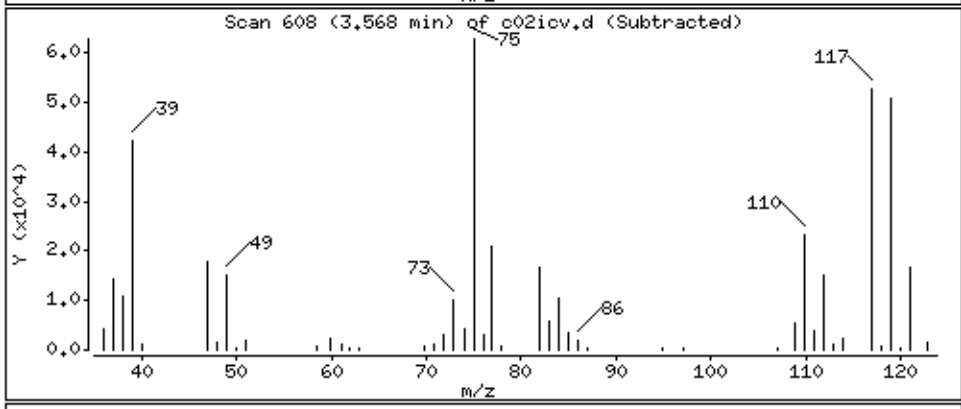
Column phase: DB-624

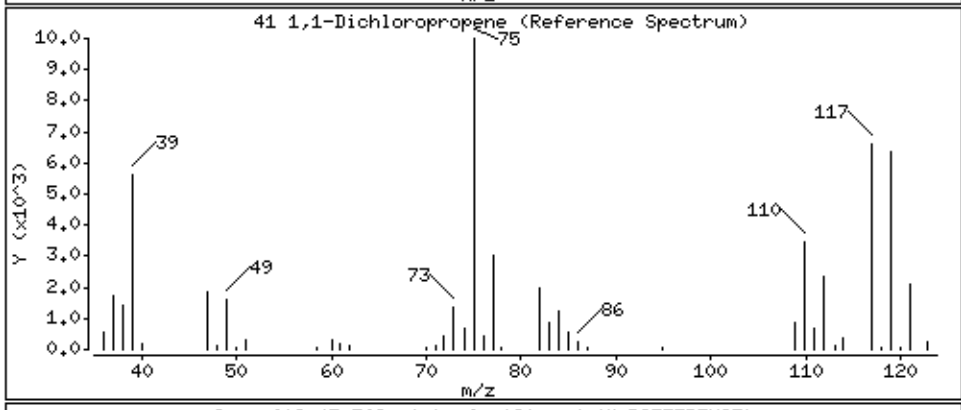
Column diameter: 0.18

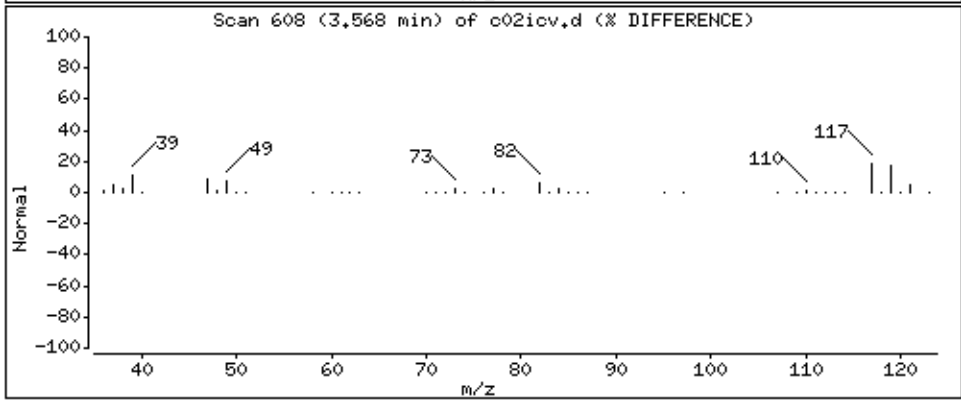
41 1,1-Dichloropropene

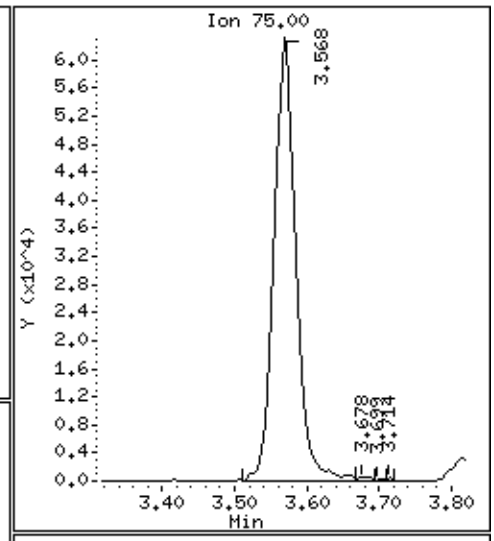
Concentration: 53.1 ppb

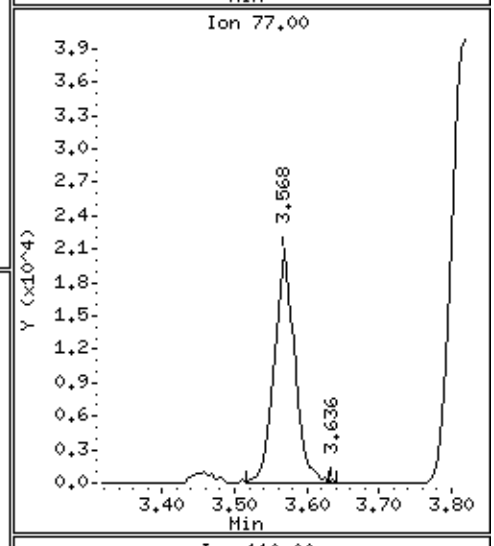


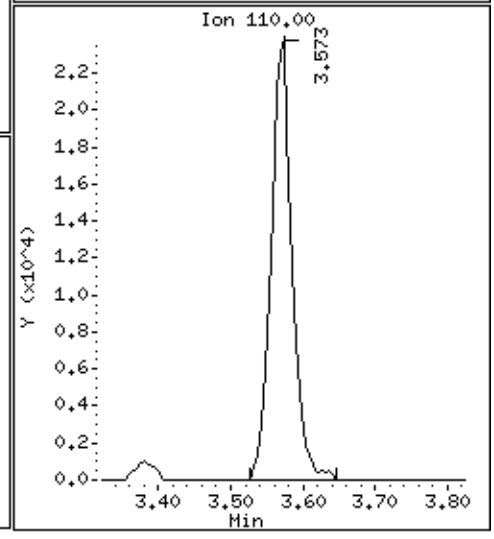












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

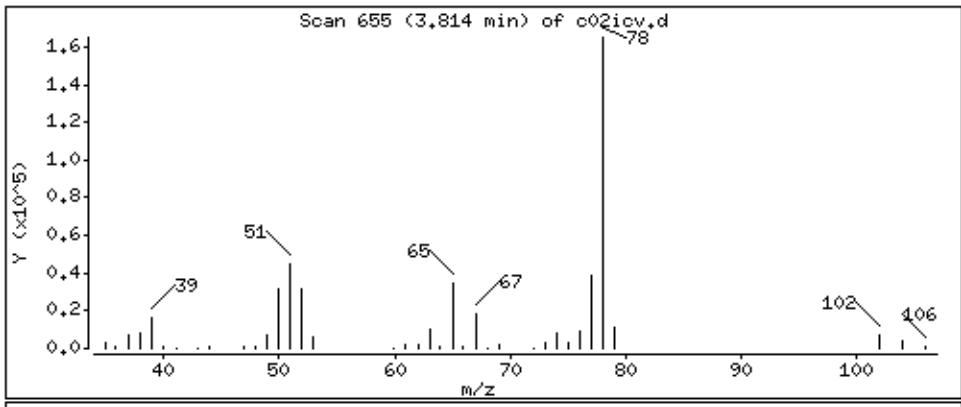
Operator: grm

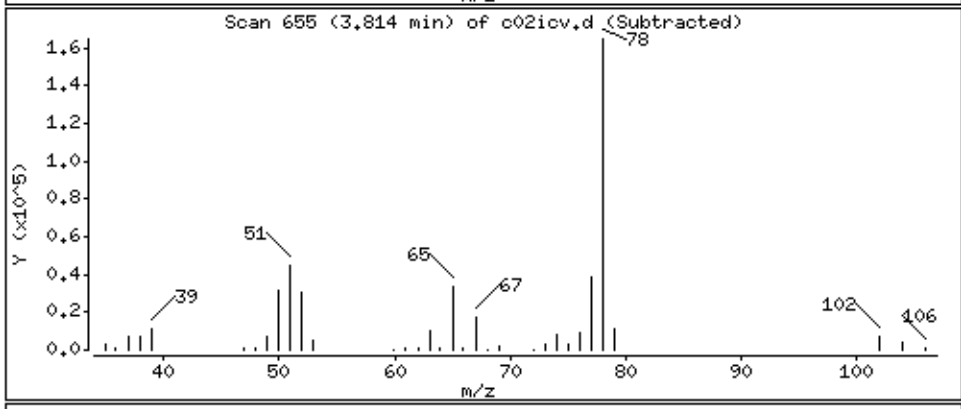
Column phase: DB-624

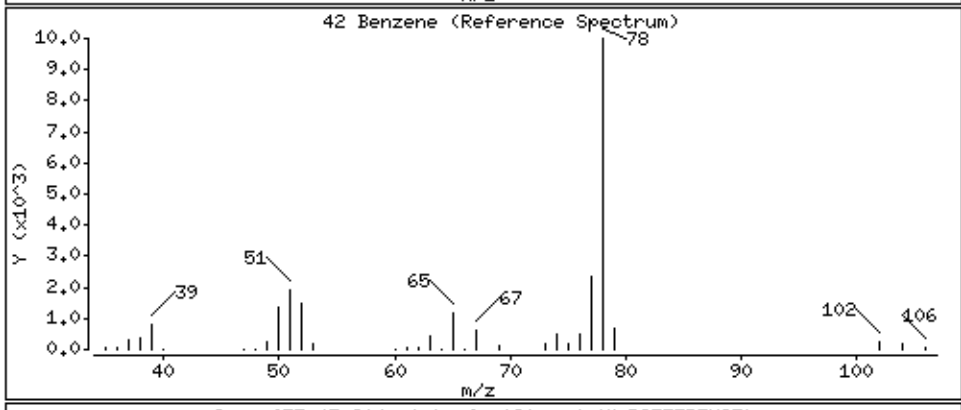
Column diameter: 0.18

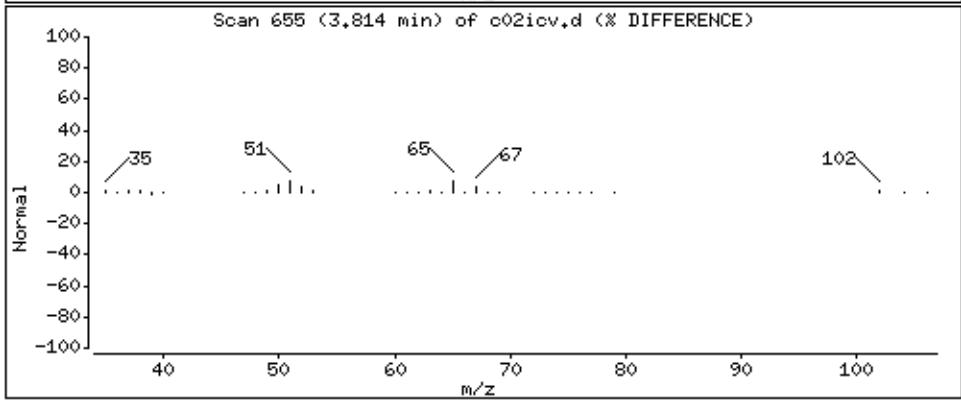
42 Benzene

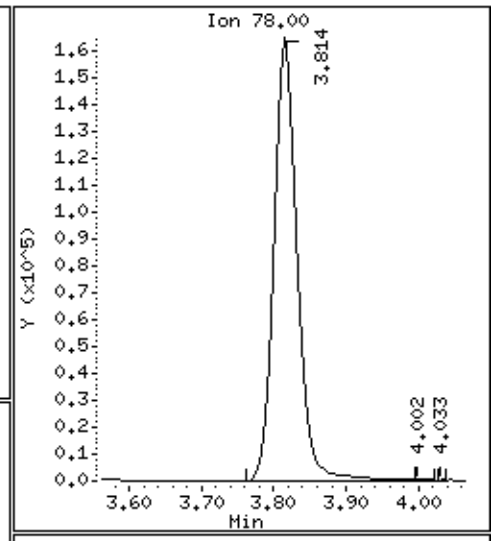
Concentration: 52.6 ppb

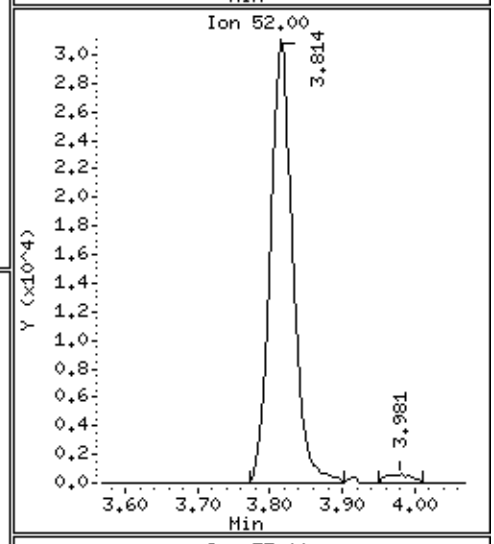


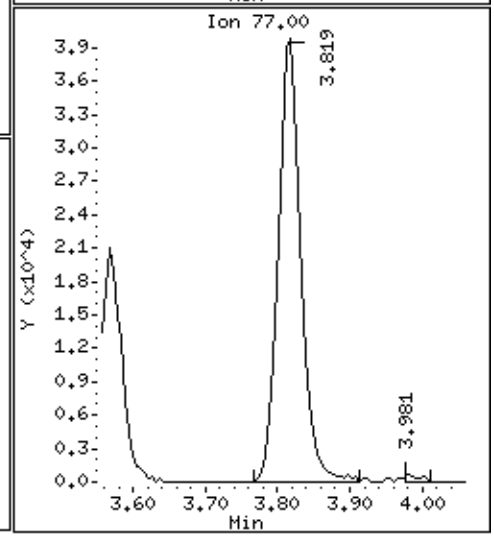












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

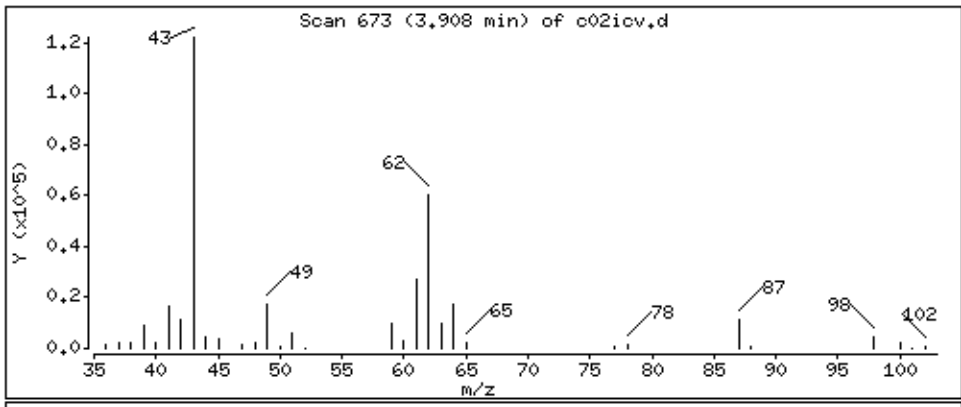
Operator: grm

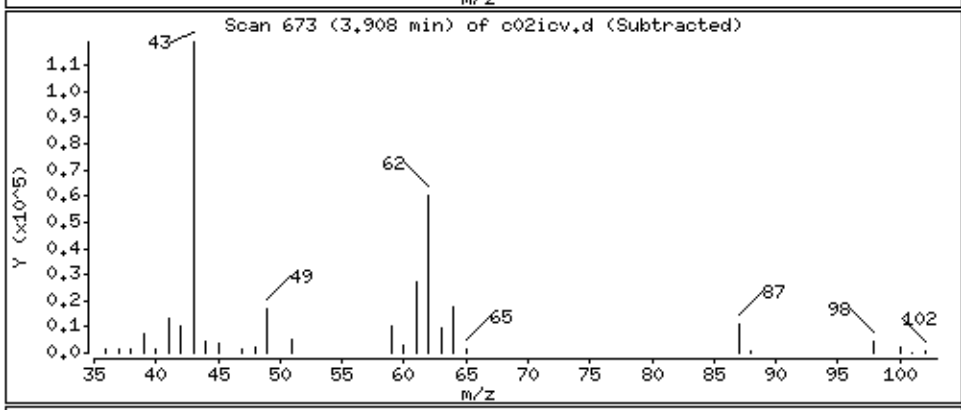
Column phase: DB-624

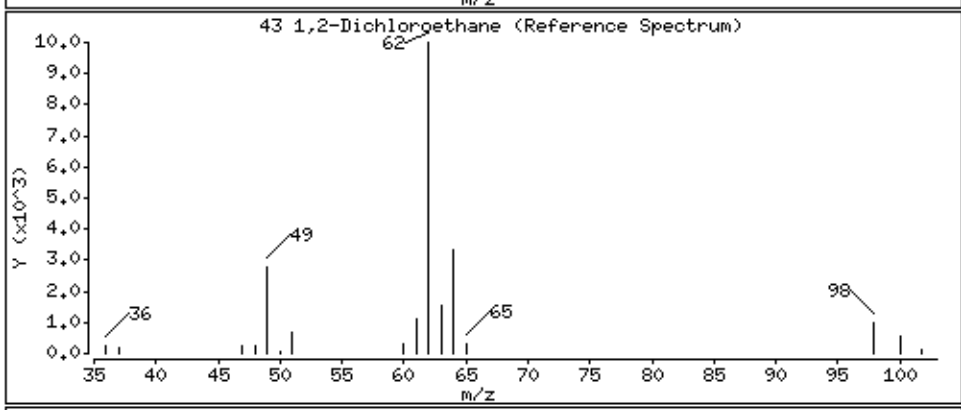
Column diameter: 0.18

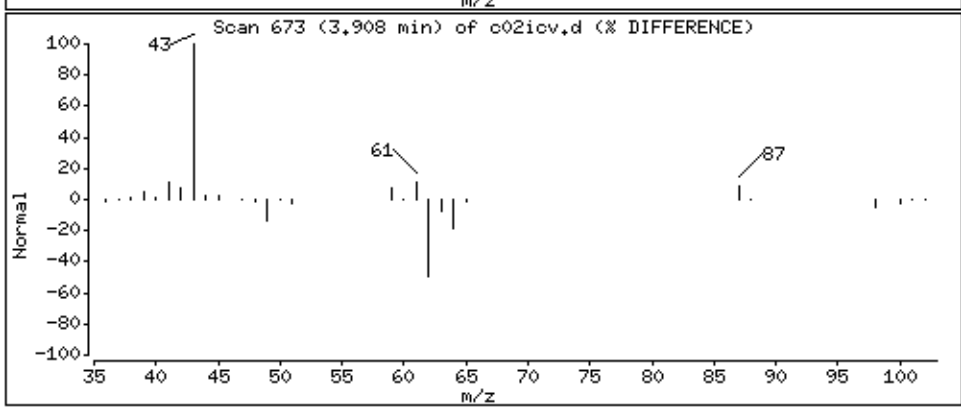
43 1,2-Dichloroethane

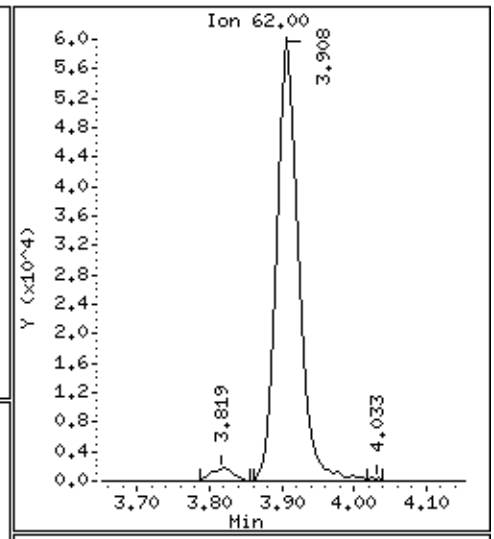
Concentration: 52.1 ppb

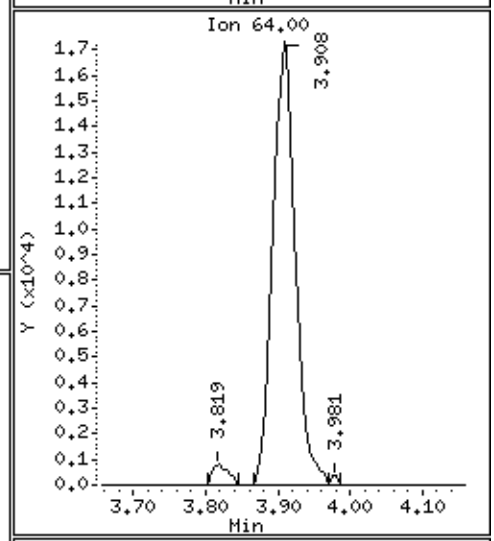


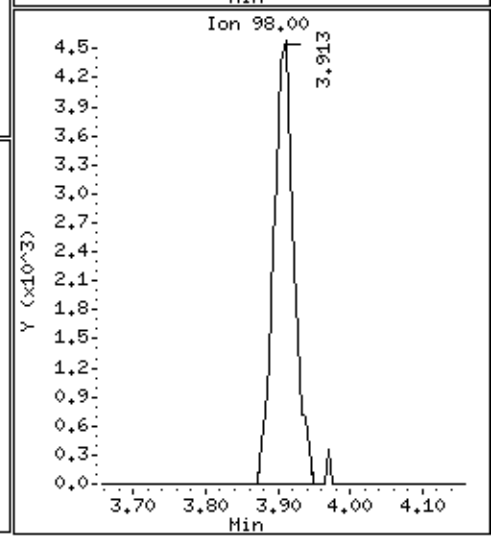












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

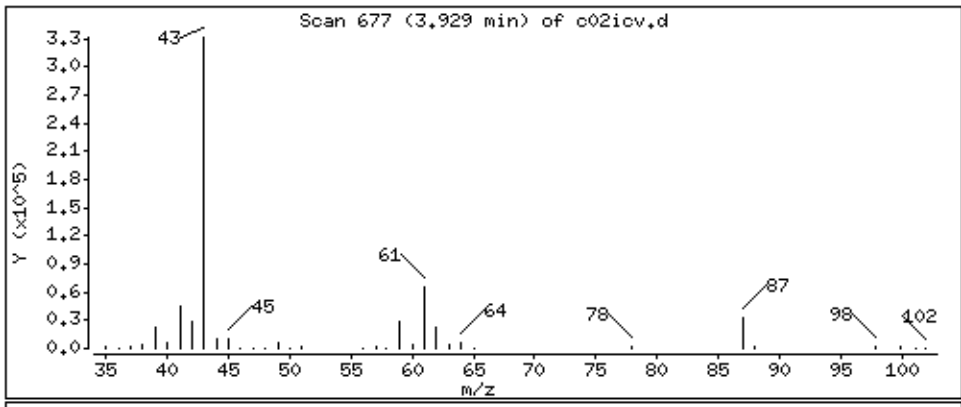
Operator: grm

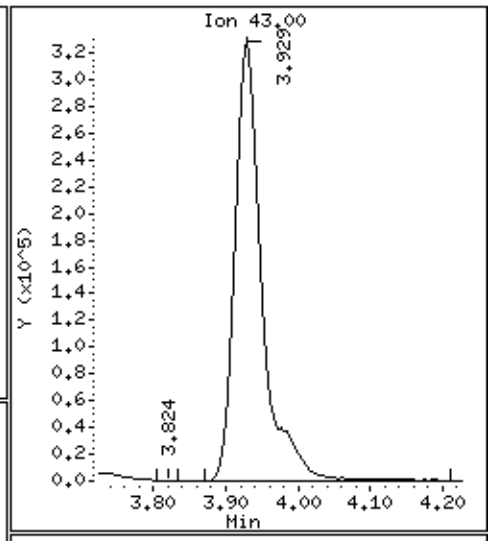
Column phase: DB-624

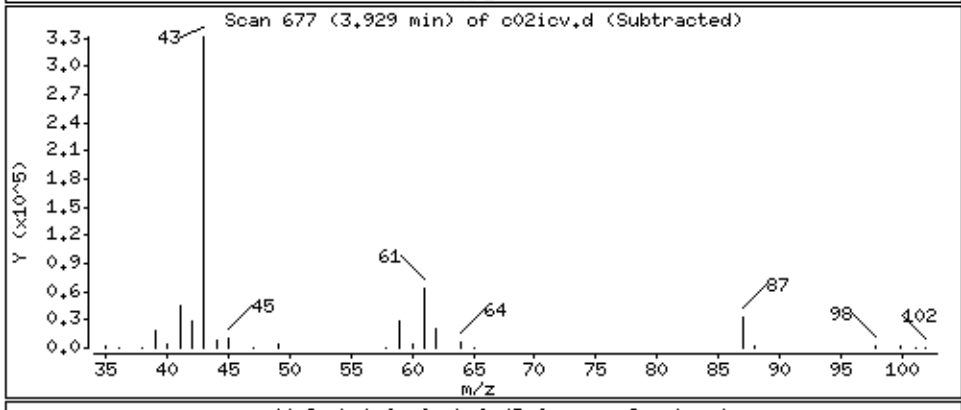
Column diameter: 0.18

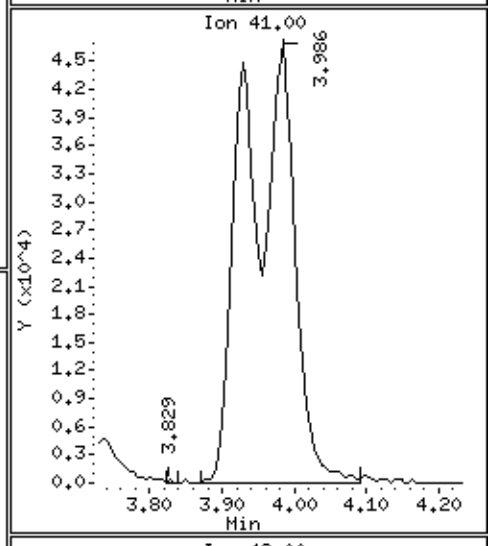
44 Isobutyl alcohol

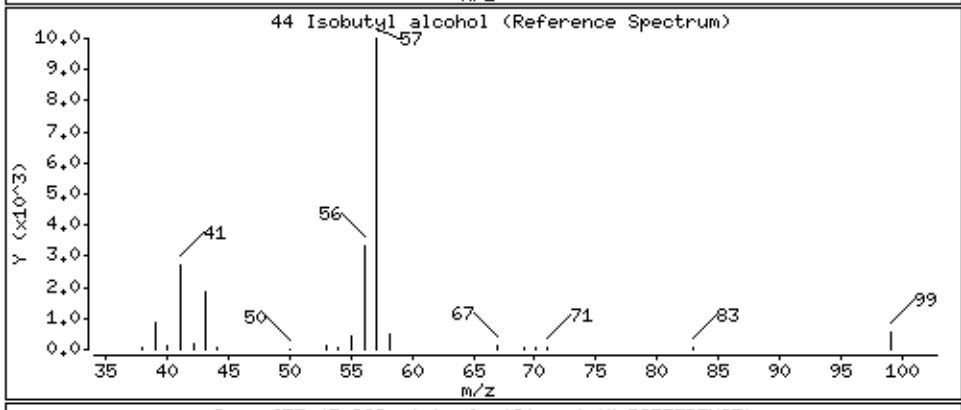
Concentration: 557 ppb

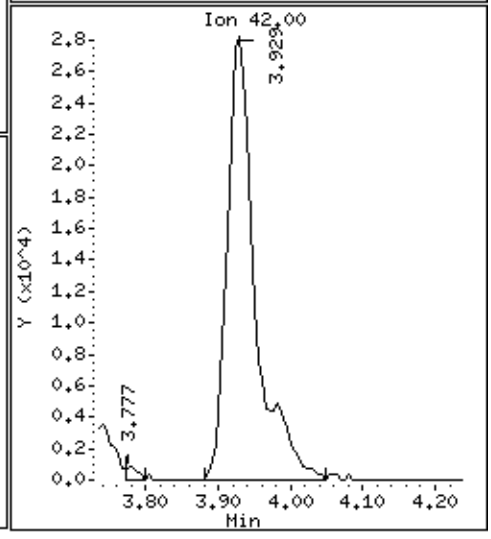


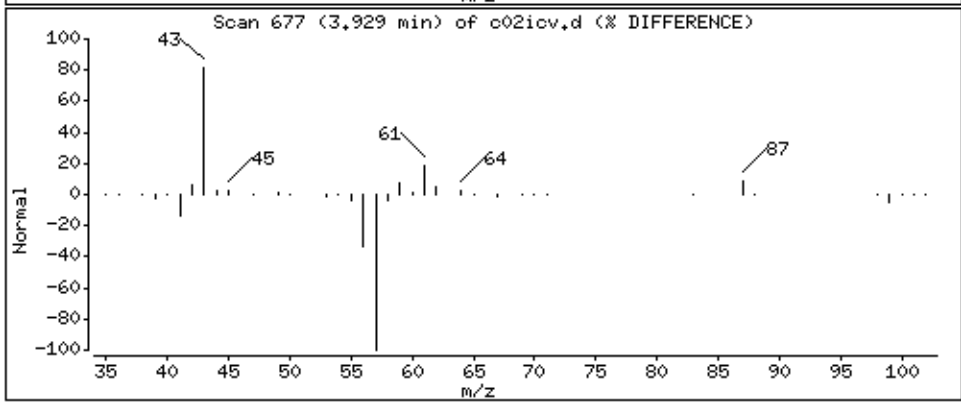












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

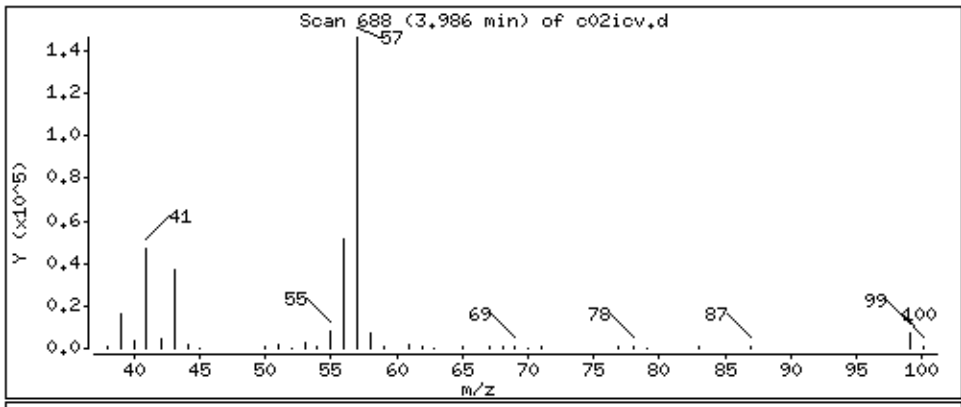
Operator: grm

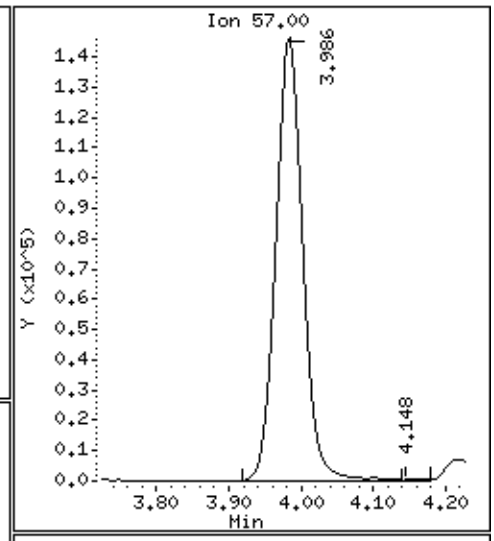
Column phase: DB-624

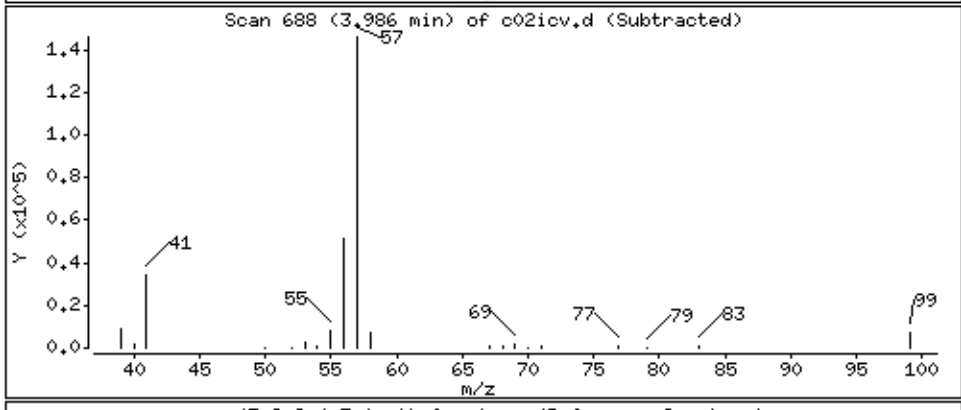
Column diameter: 0.18

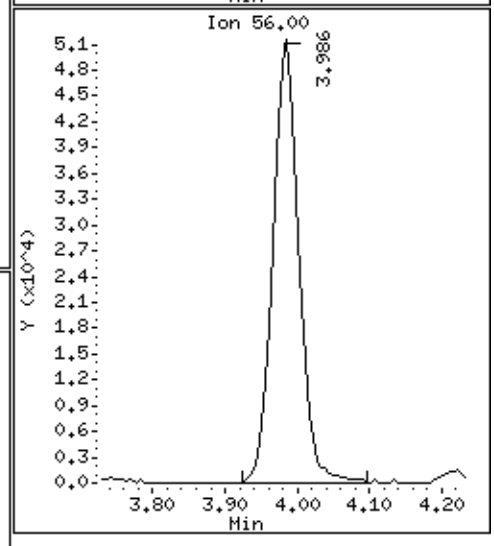
45 2,2,4-Trimethylpentane

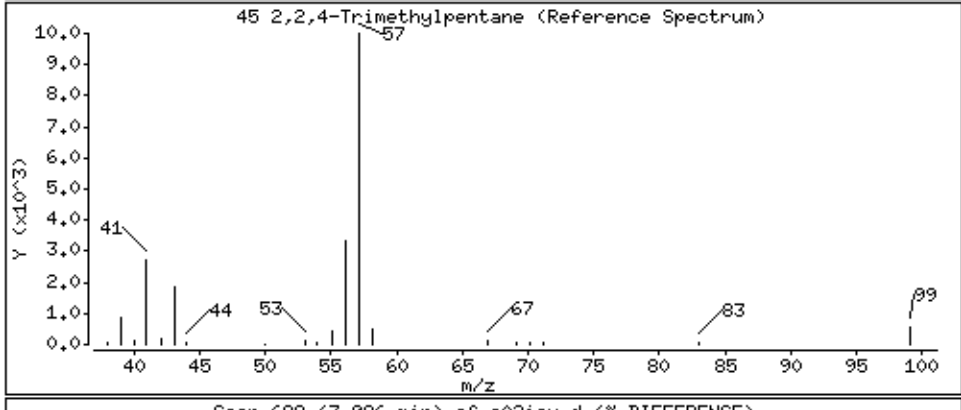
Concentration: 49.4 ppb

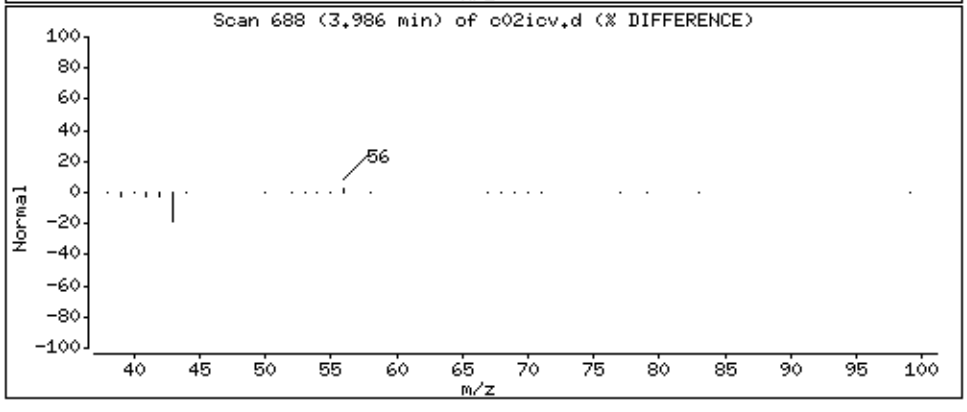












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

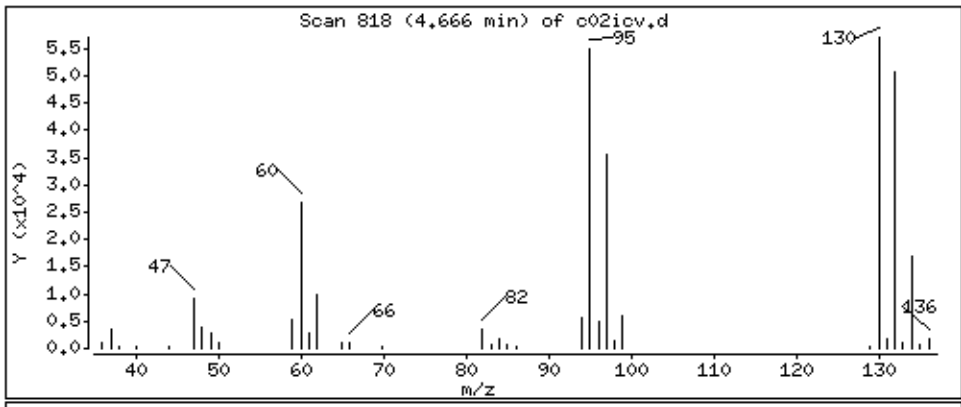
Operator: grm

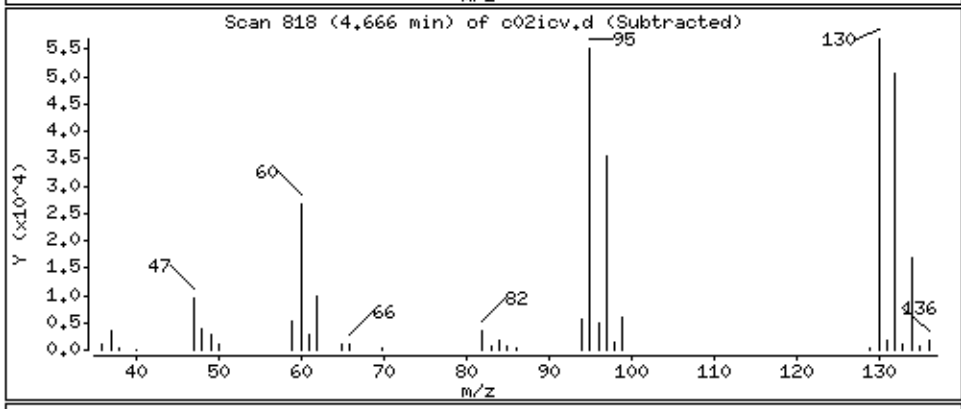
Column phase: DB-624

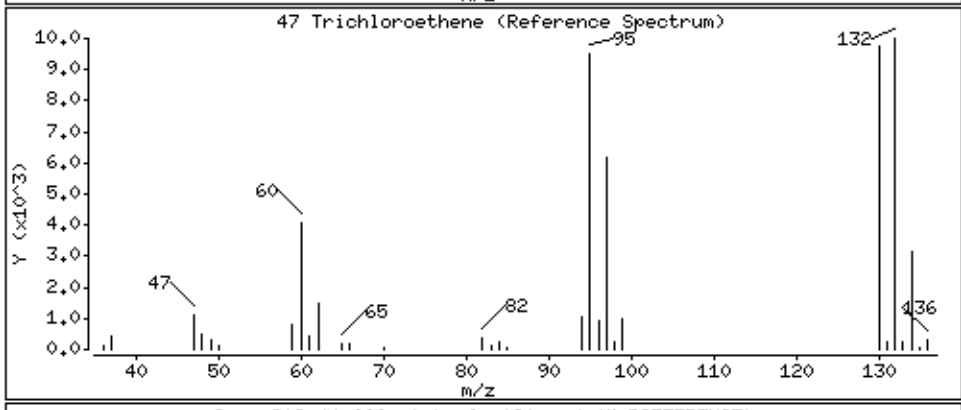
Column diameter: 0.18

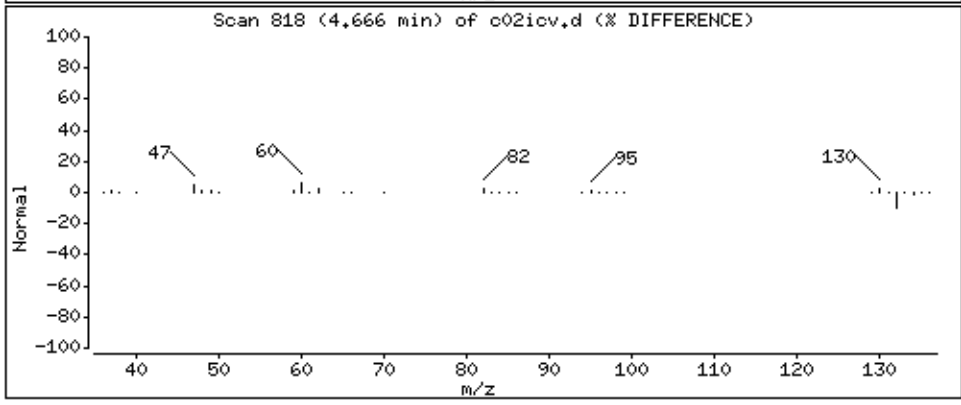
47 Trichloroethene

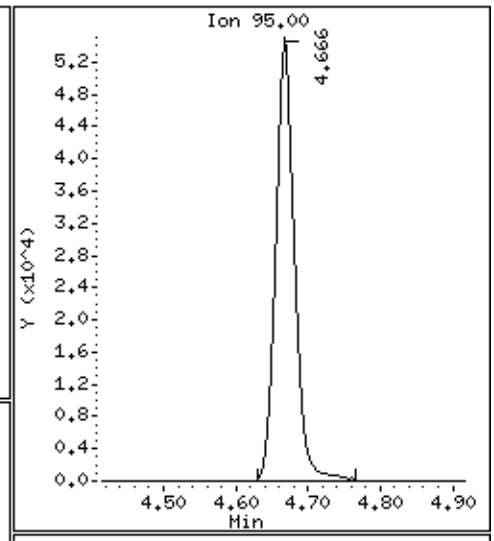
Concentration: 52.3 ppb

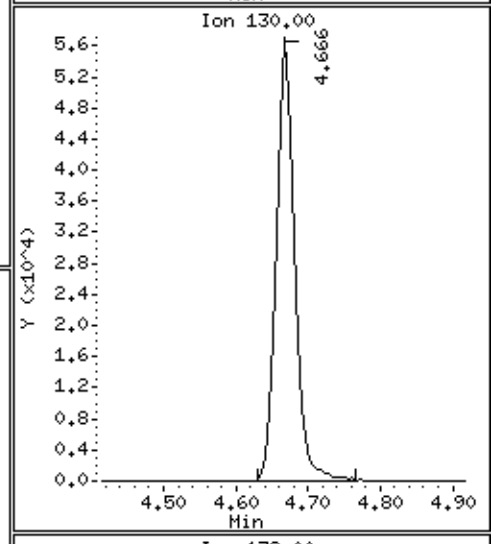


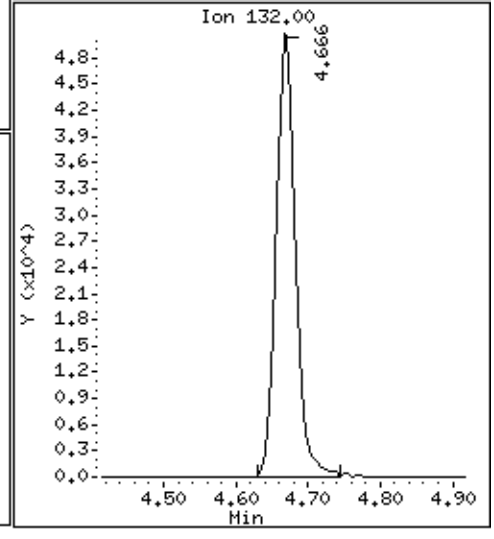












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 51

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

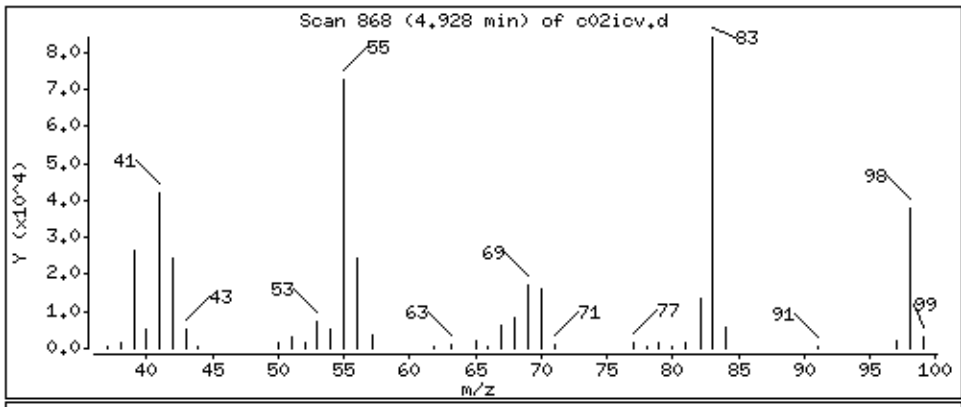
Operator: grm

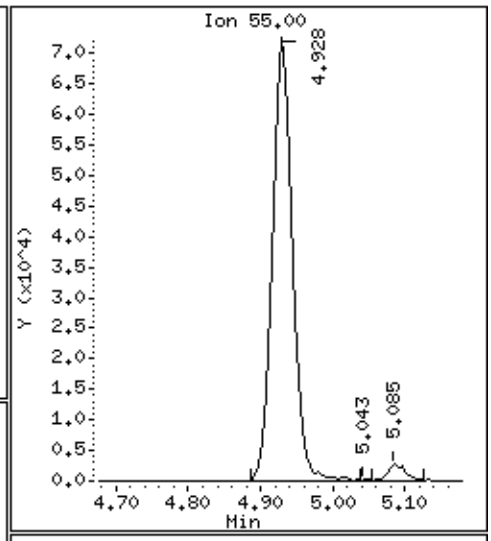
Column phase: DB-624

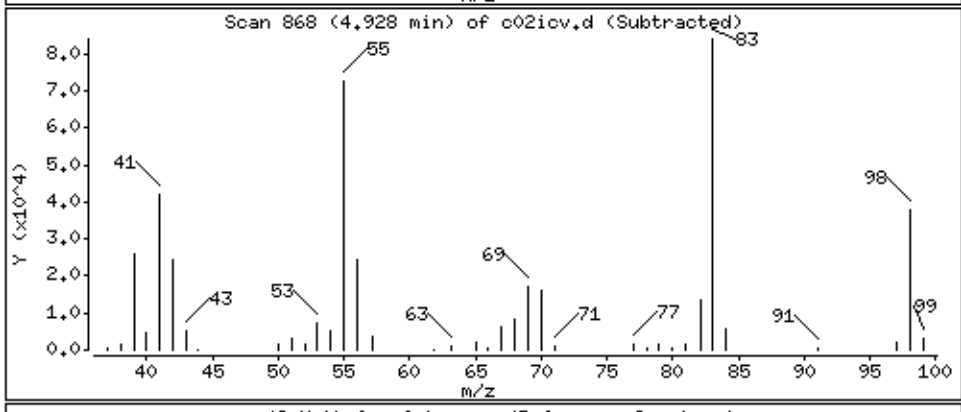
Column diameter: 0.18

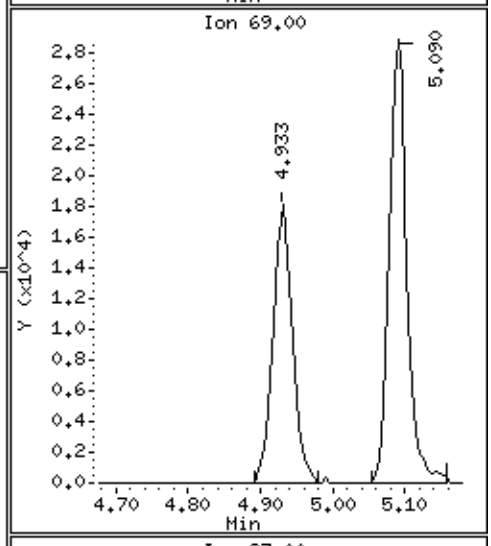
48 Methylcyclohexane

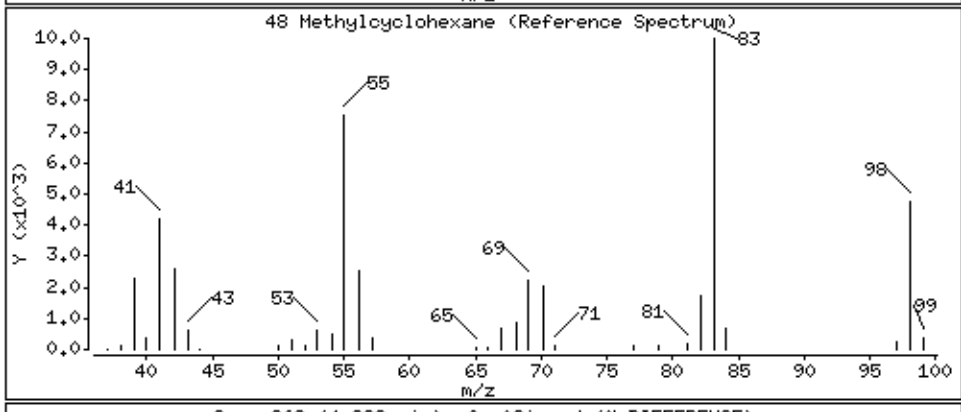
Concentration: 50.0 ppb

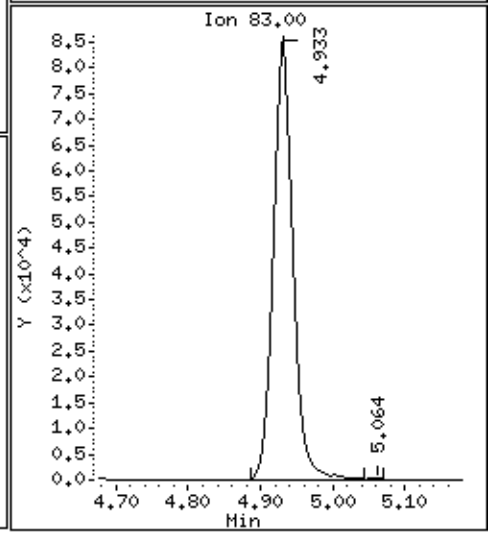


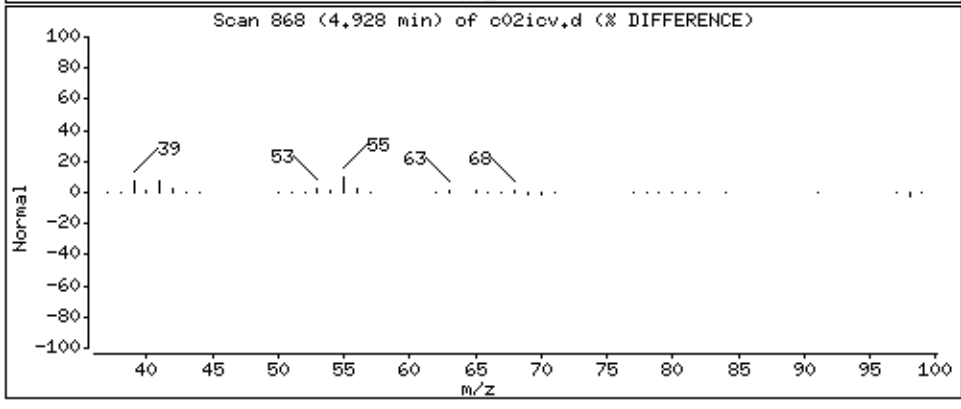












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

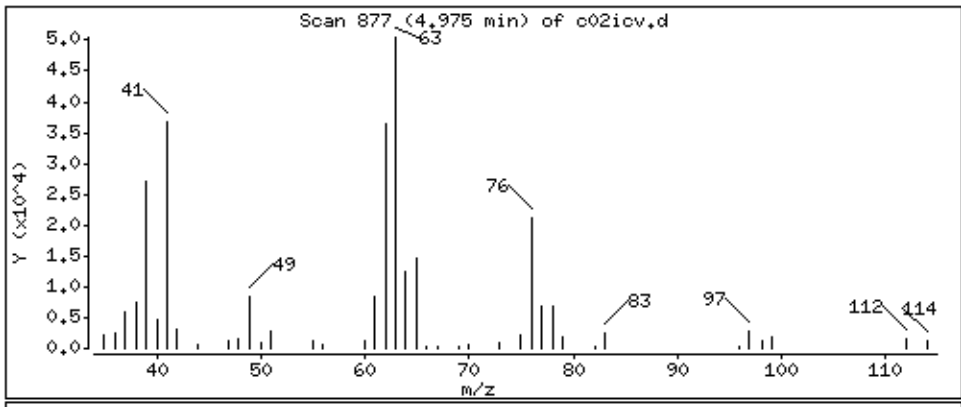
Operator: grm

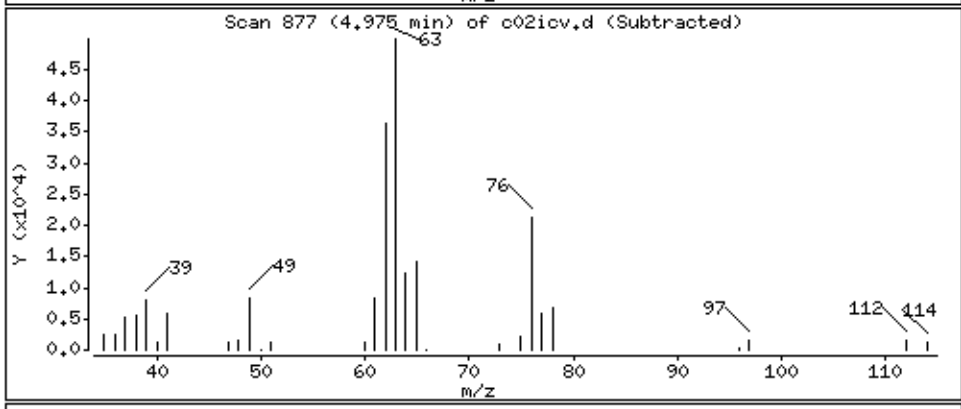
Column phase: DB-624

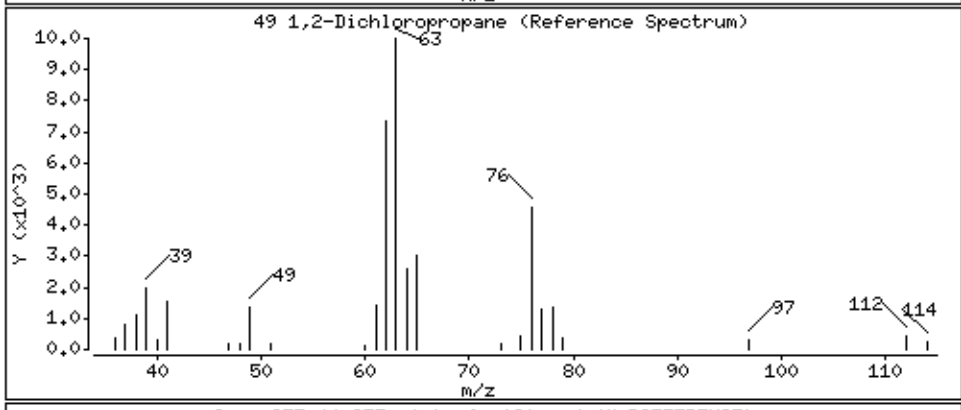
Column diameter: 0.18

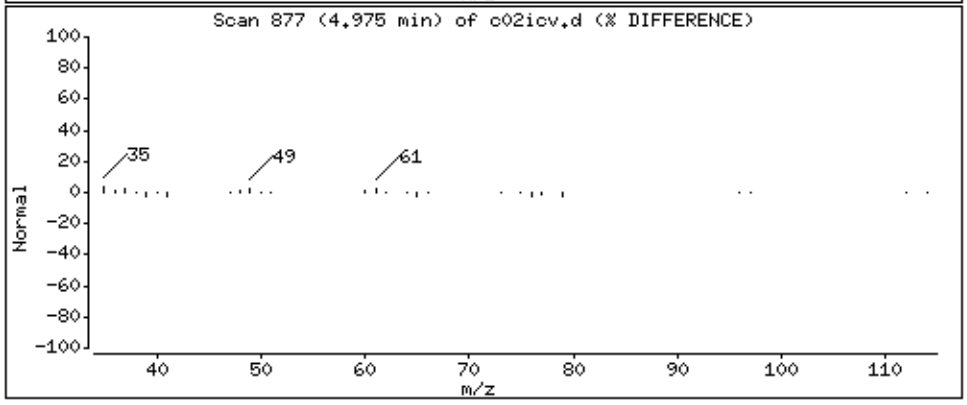
49 1,2-Dichloropropane

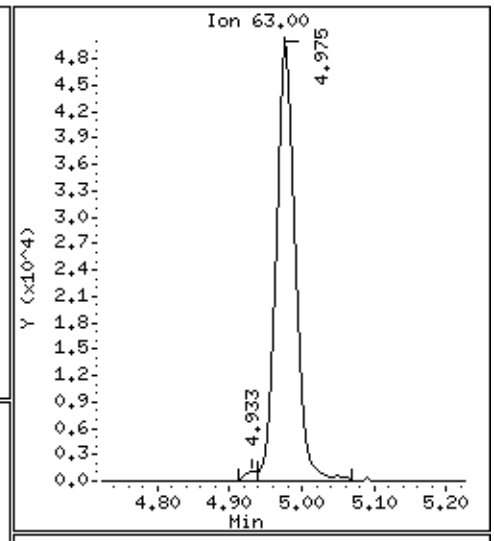
Concentration: 51.6 ppb

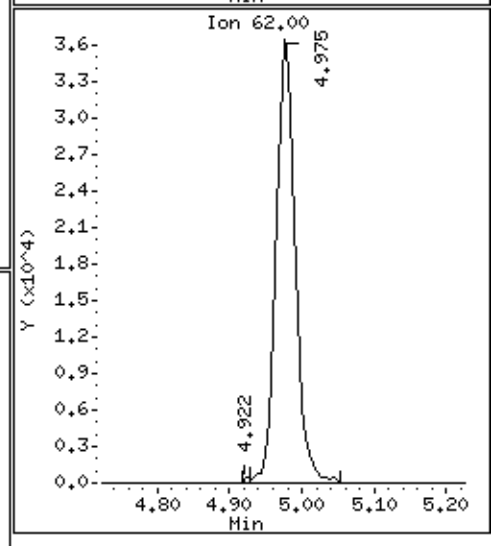












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

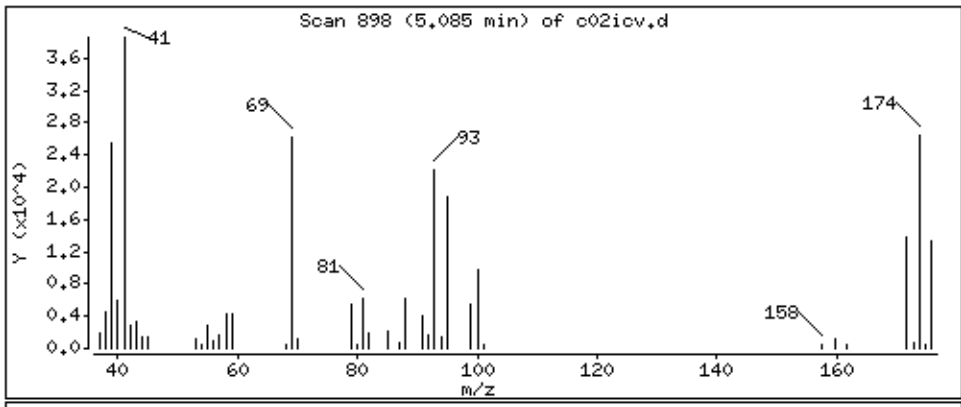
Operator: grm

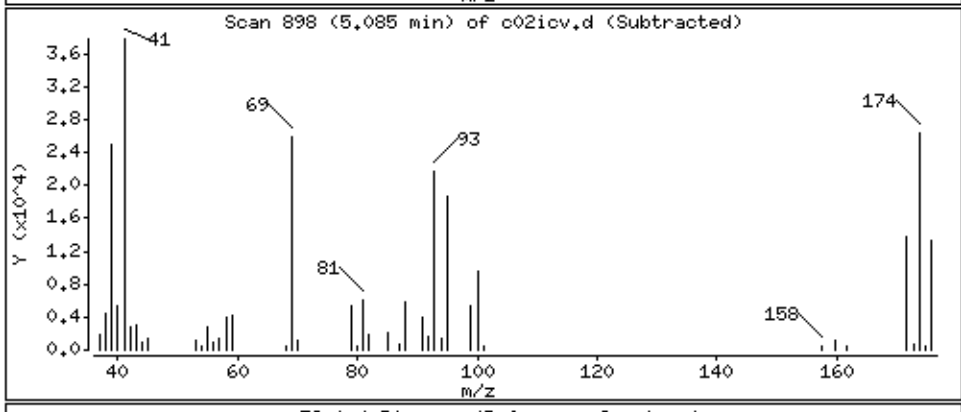
Column phase: DB-624

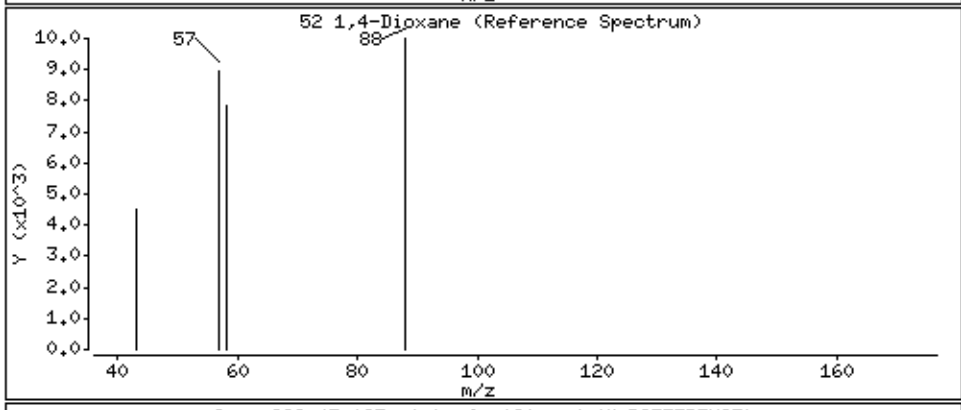
Column diameter: 0.18

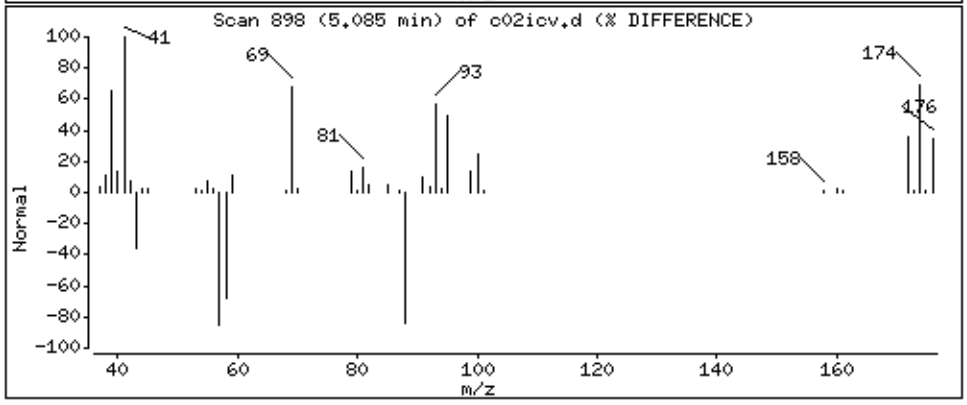
52 1,4-Dioxane

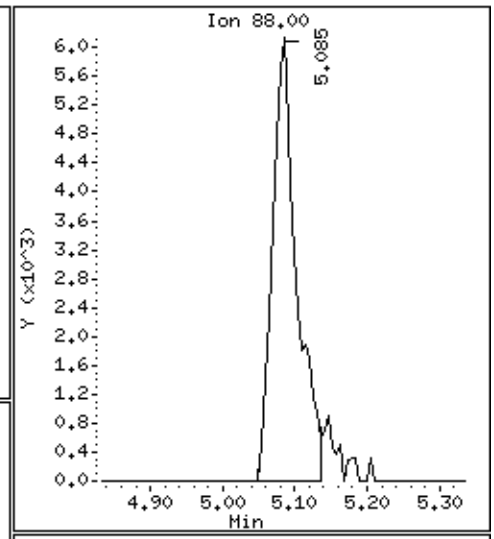
Concentration: 1040 ppb

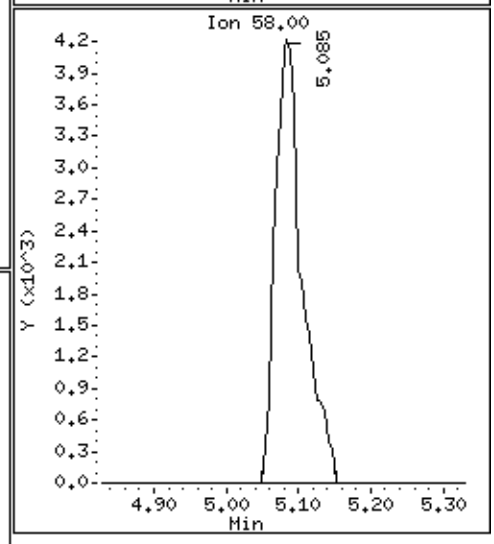












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

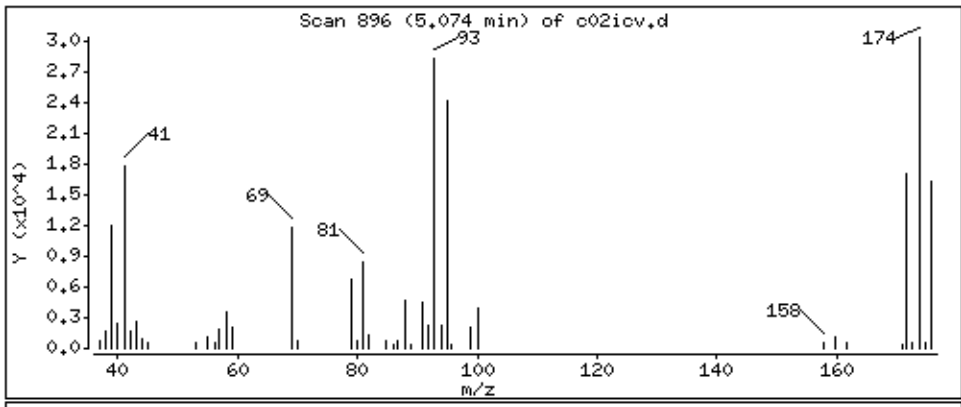
Operator: grm

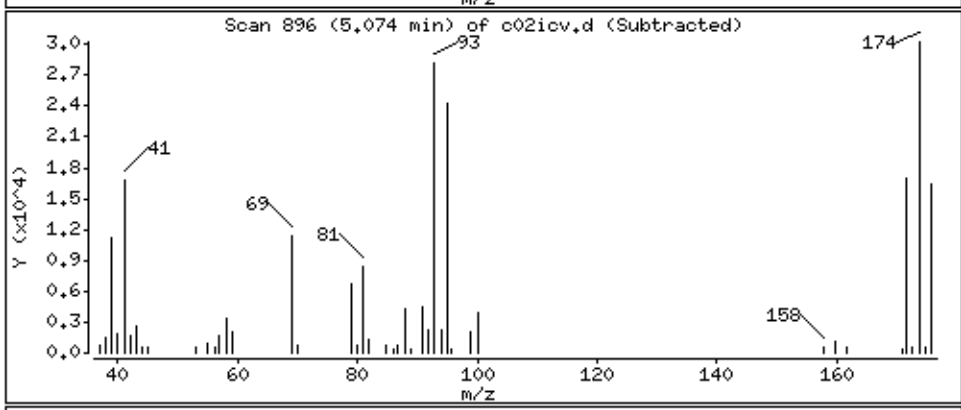
Column phase: DB-624

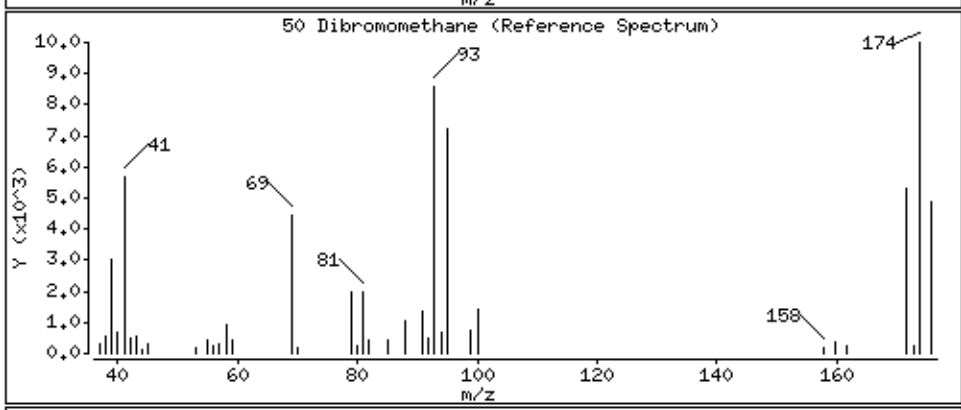
Column diameter: 0.18

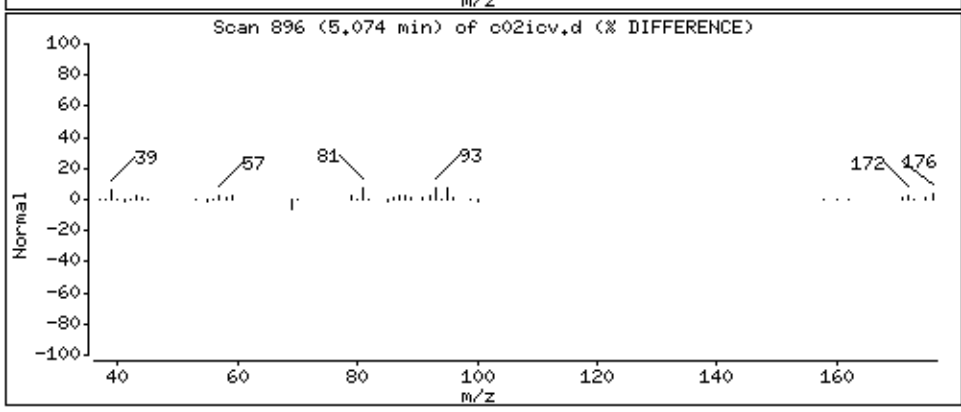
50 Dibromomethane

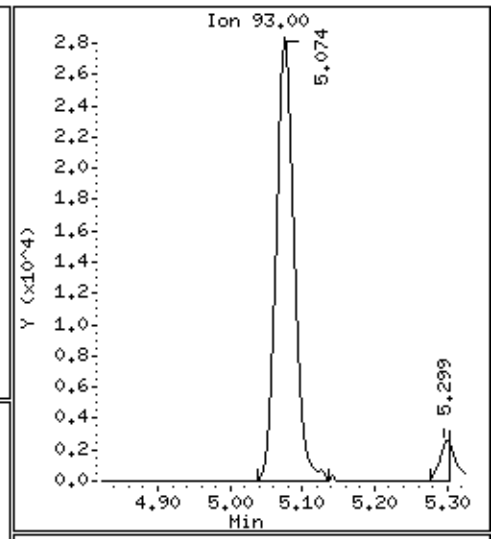
Concentration: 53.6 ppb

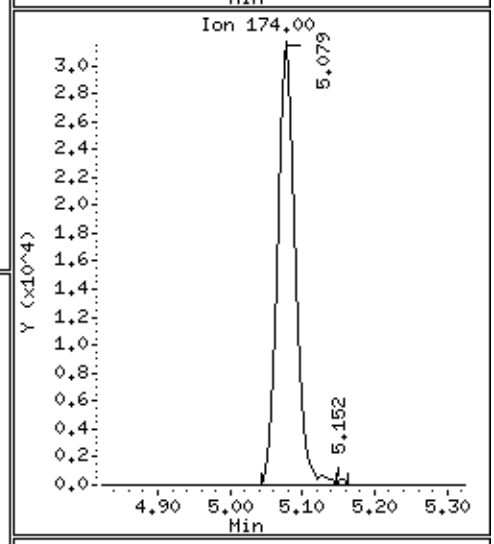


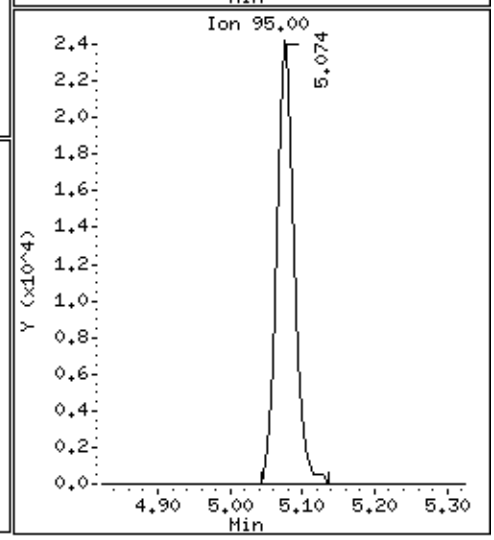












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 55

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

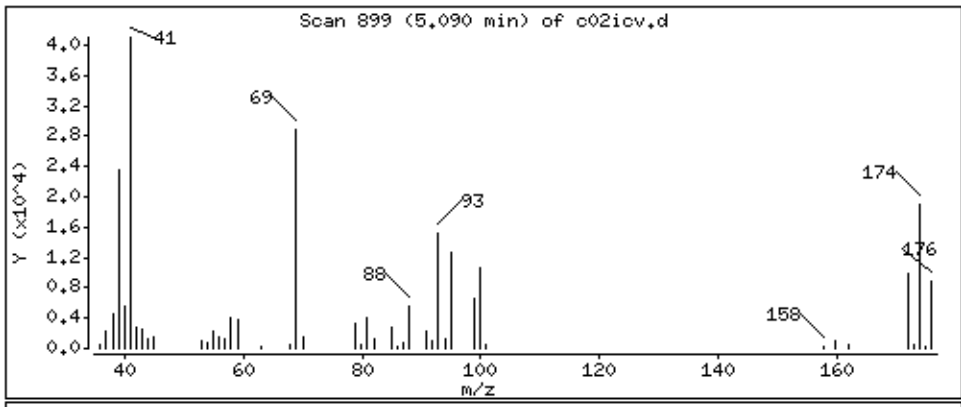
Operator: grm

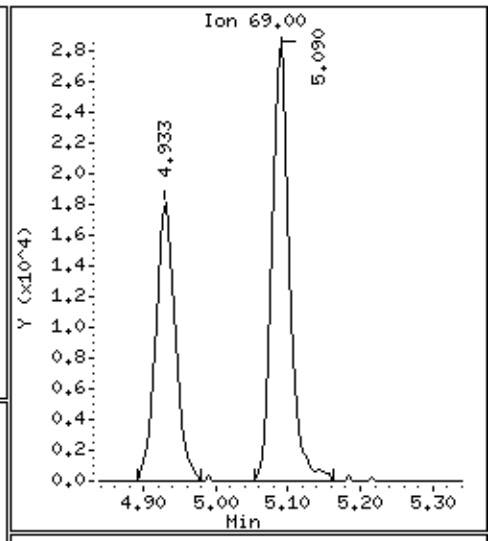
Column phase: DB-624

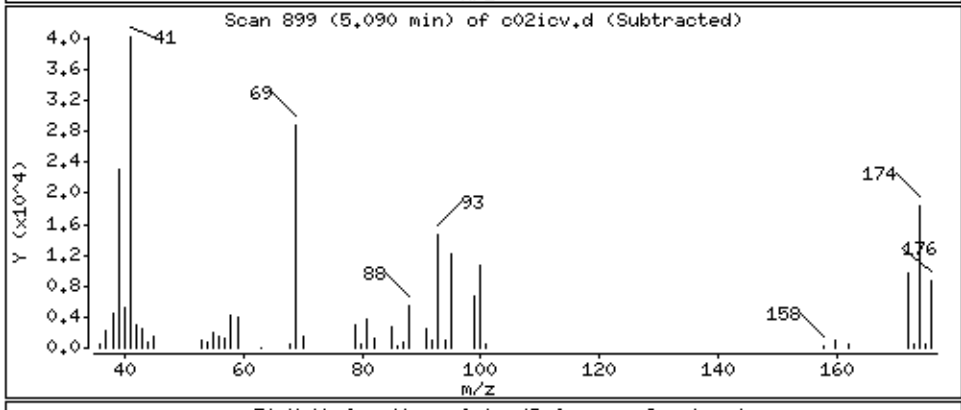
Column diameter: 0.18

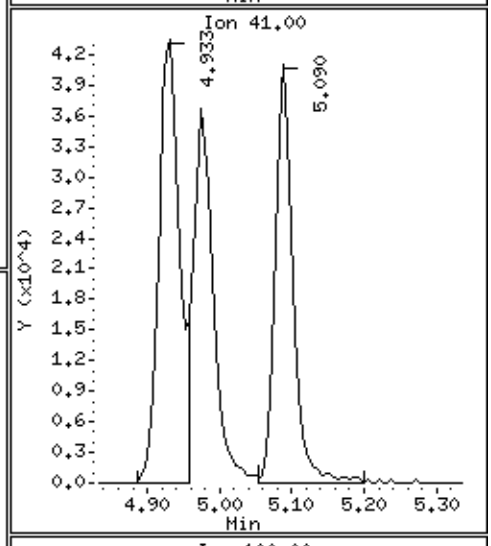
51 Methyl methacrylate

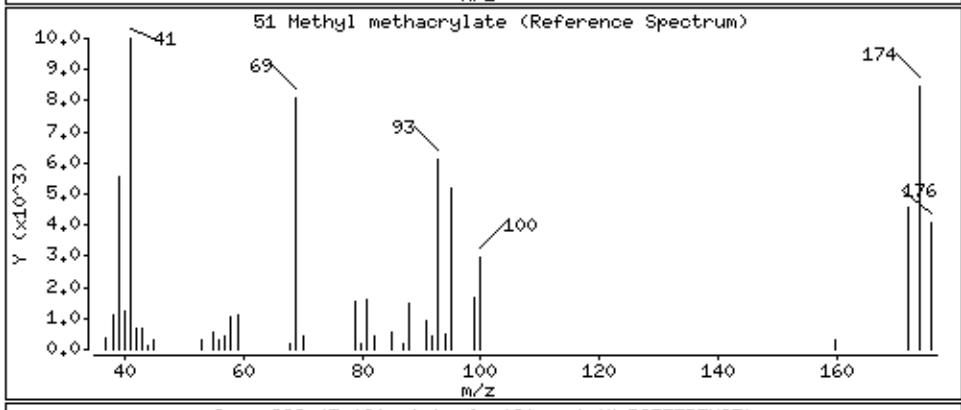
Concentration: 52.0 ppb

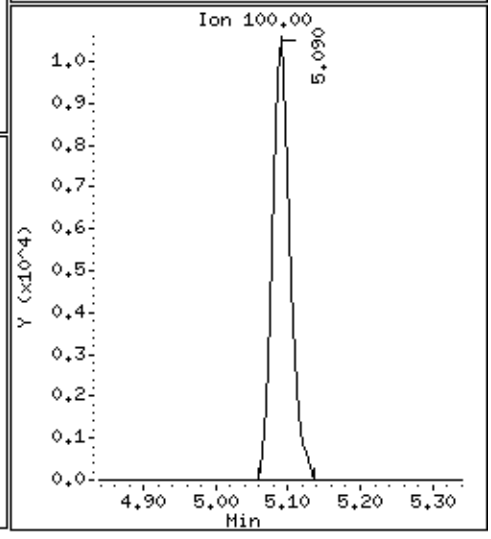


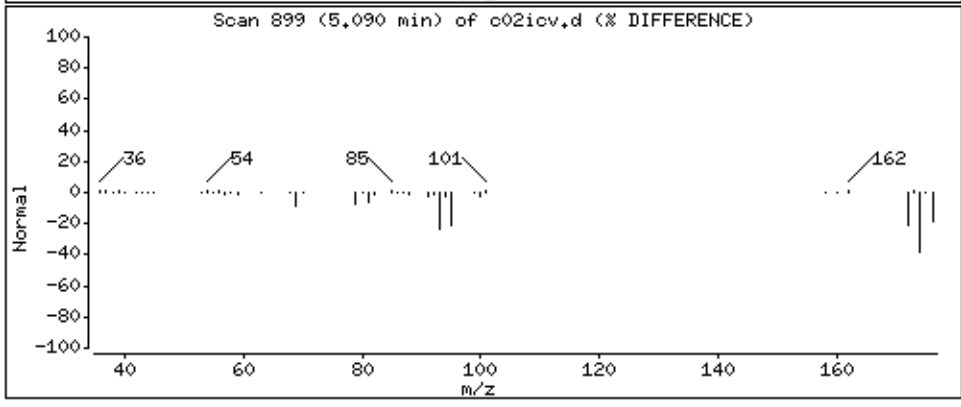












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

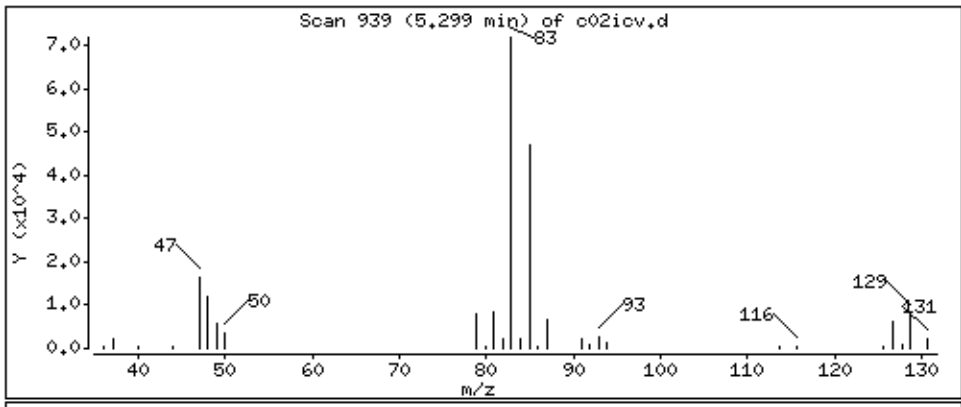
Operator: grm

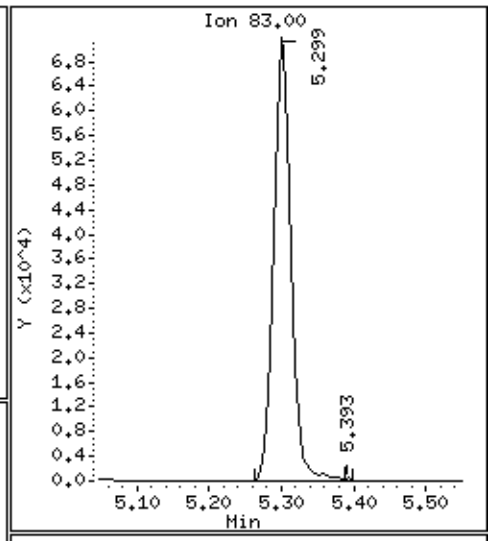
Column phase: DB-624

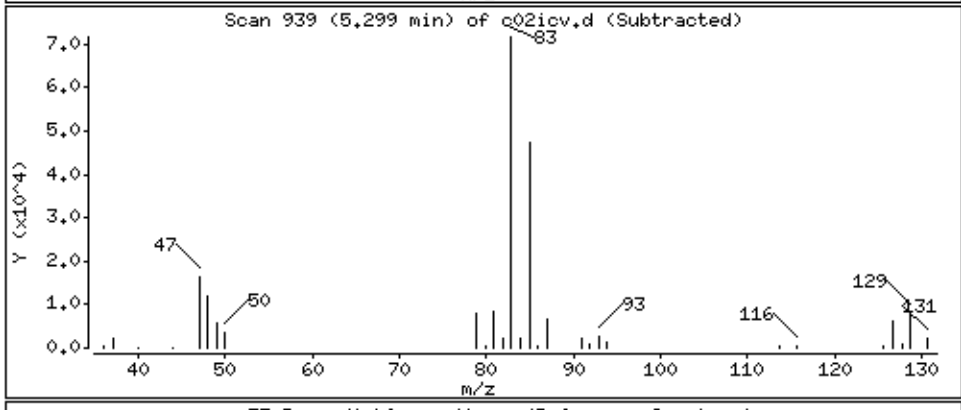
Column diameter: 0.18

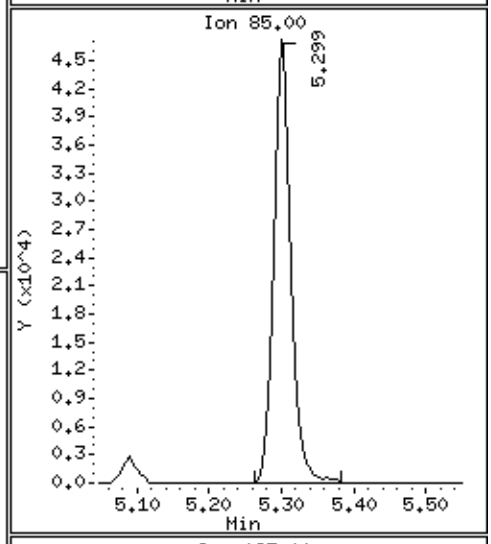
53 Bromodichloromethane

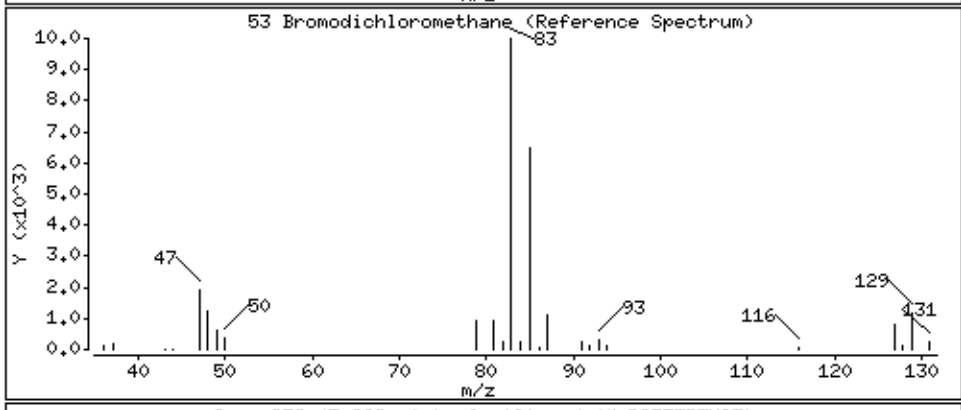
Concentration: 51.3 ppb

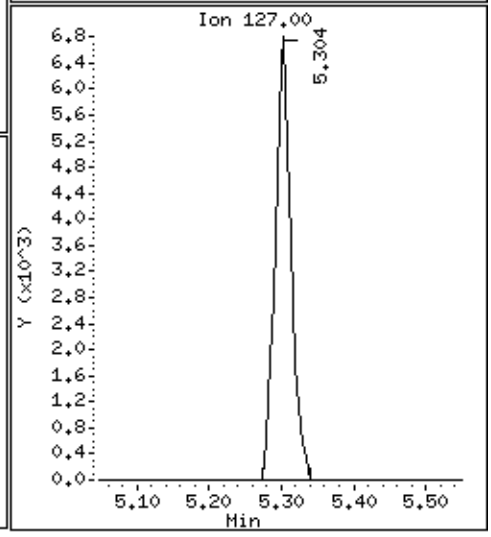


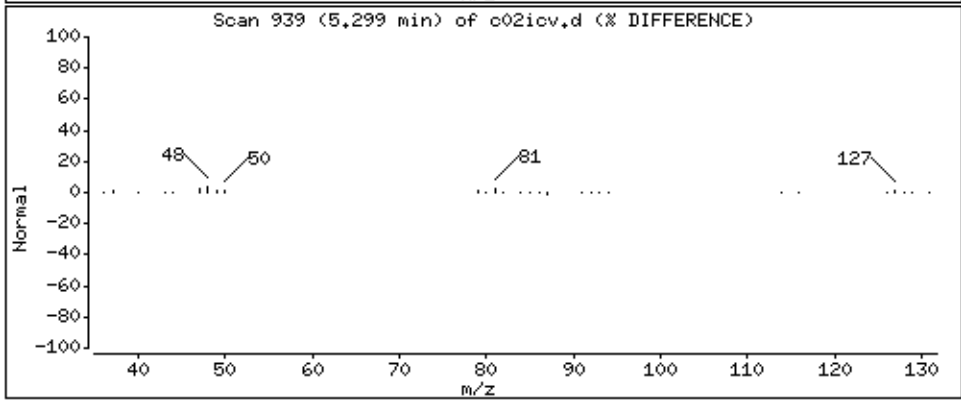












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

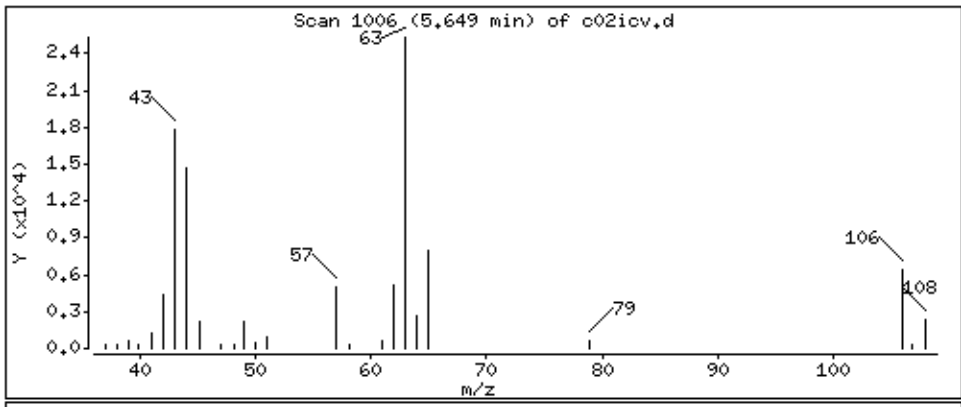
Operator: grm

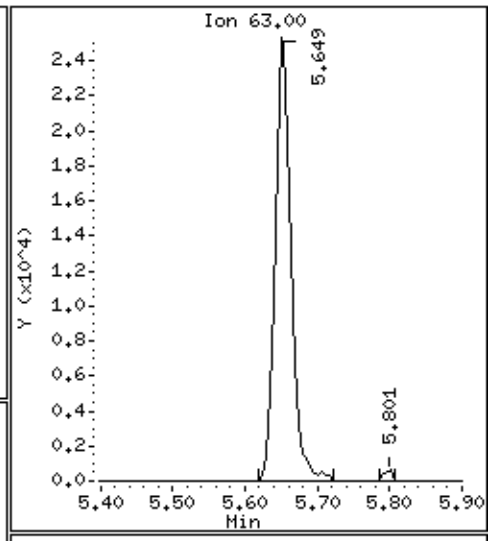
Column phase: DB-624

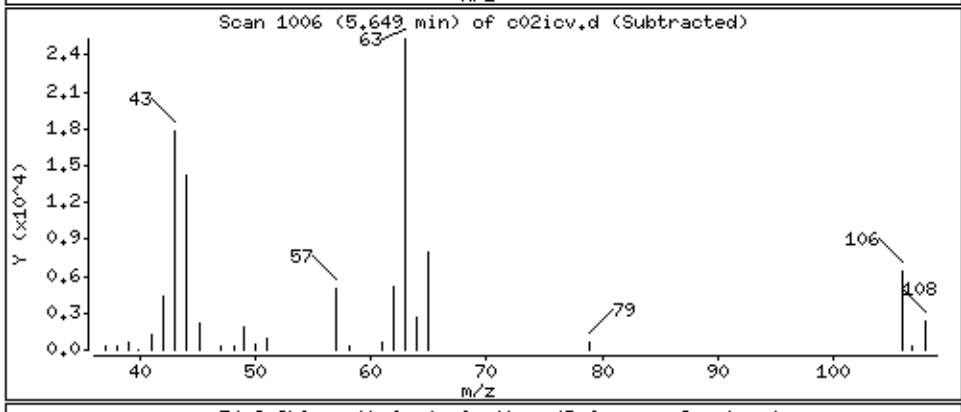
Column diameter: 0.18

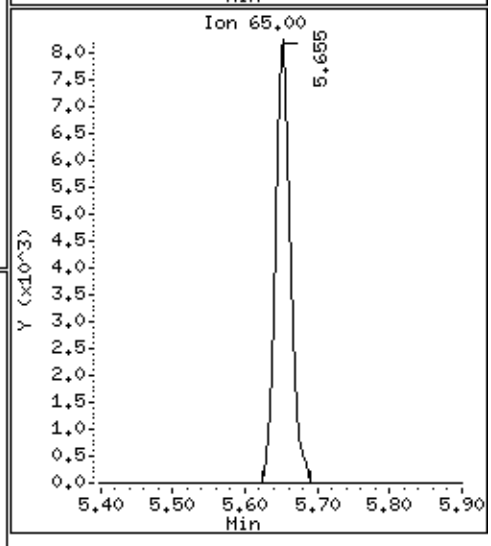
54 2-Chloroethyl vinyl ether

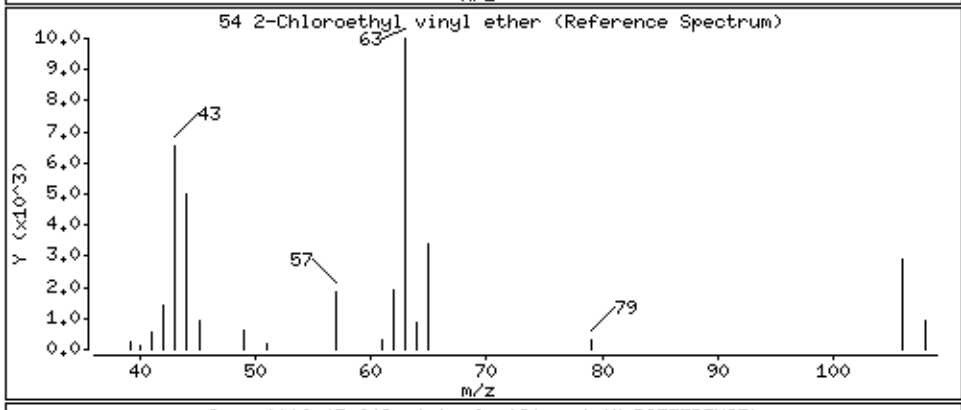
Concentration: 56.6 ppb

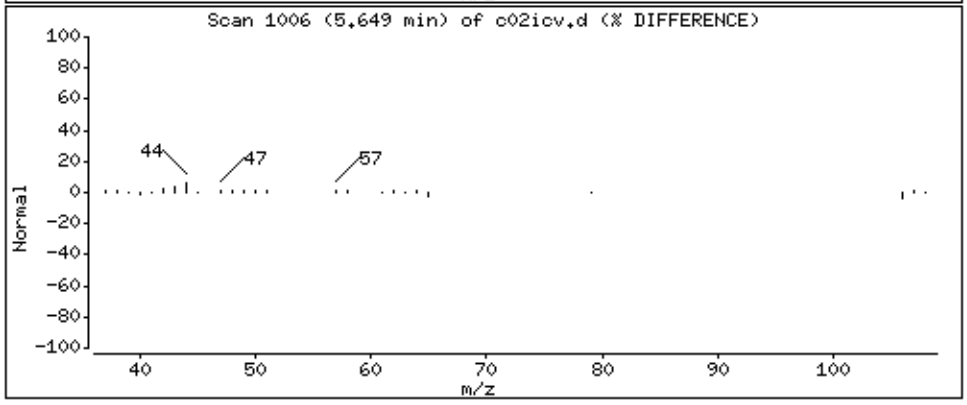












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

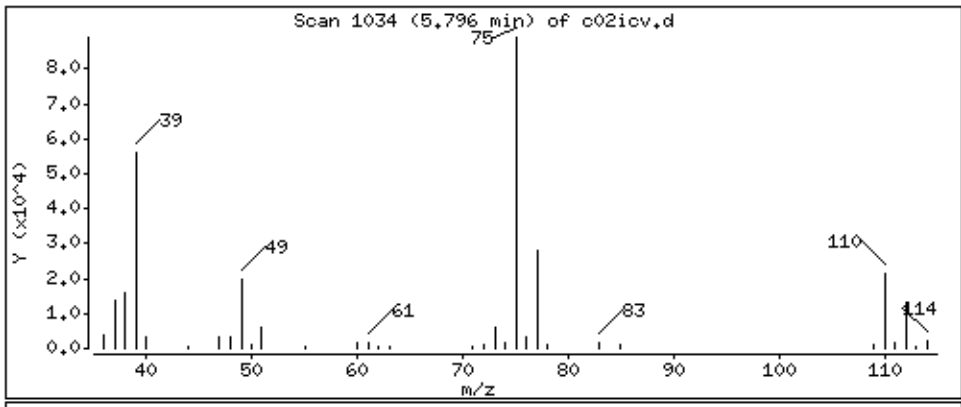
Operator: grm

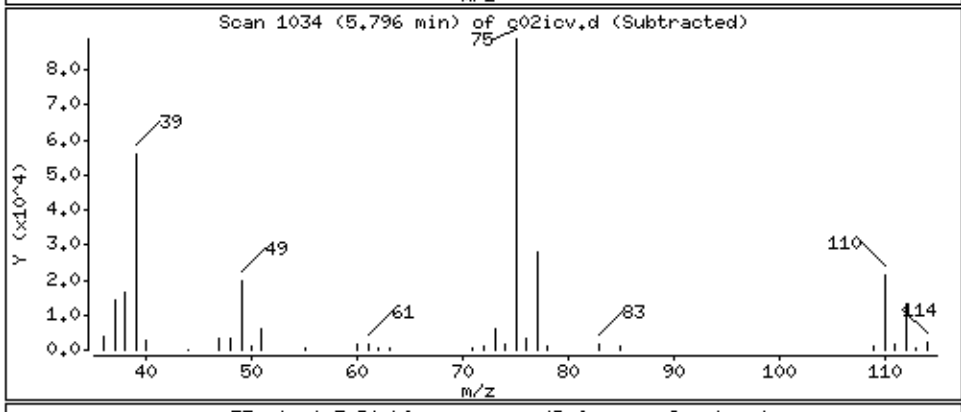
Column phase: DB-624

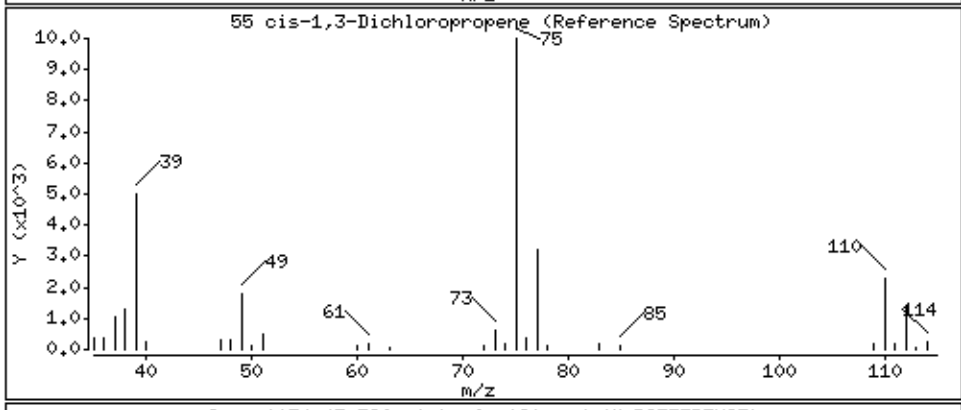
Column diameter: 0.18

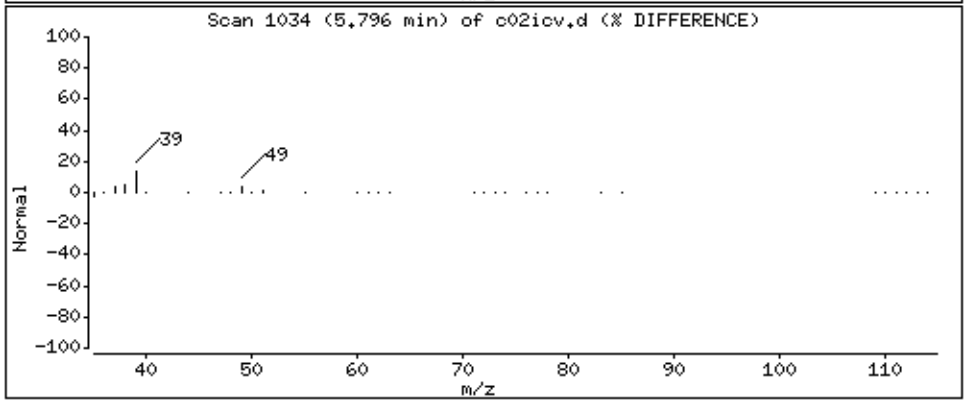
55 cis-1,3-Dichloropropene

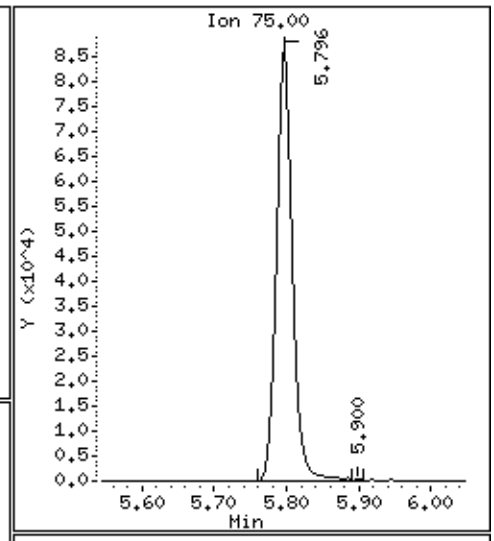
Concentration: 54.6 ppb

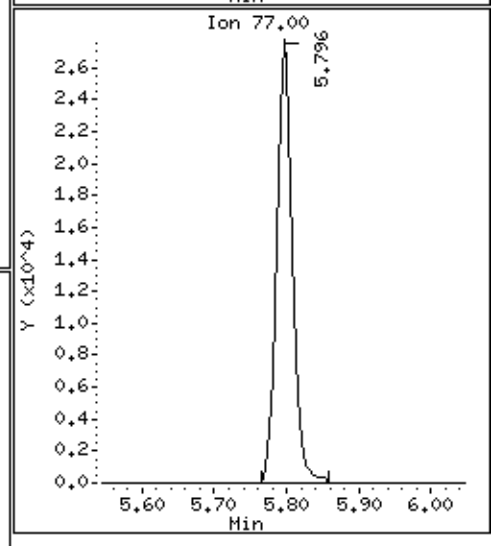












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

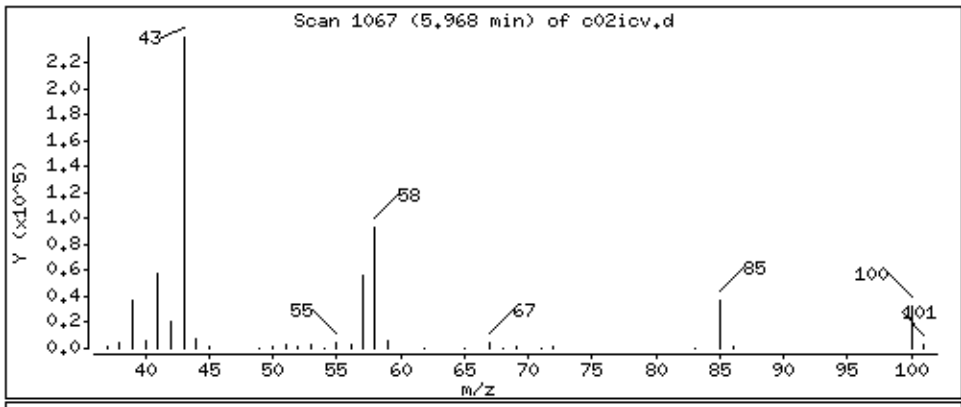
Operator: grm

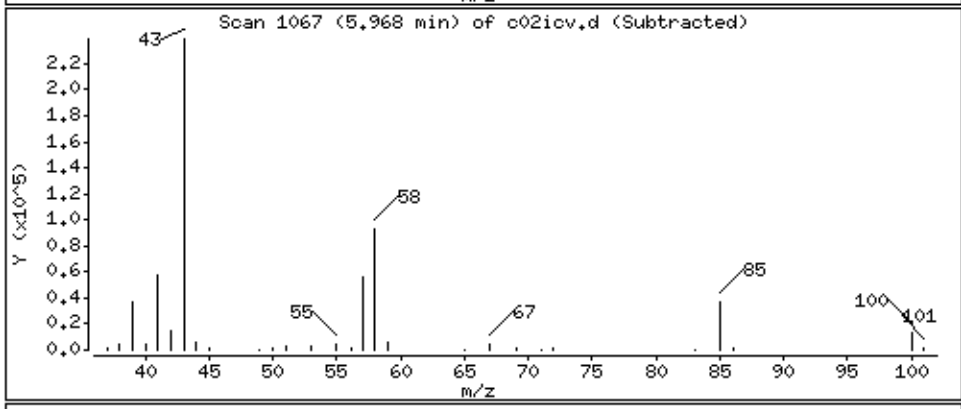
Column phase: DB-624

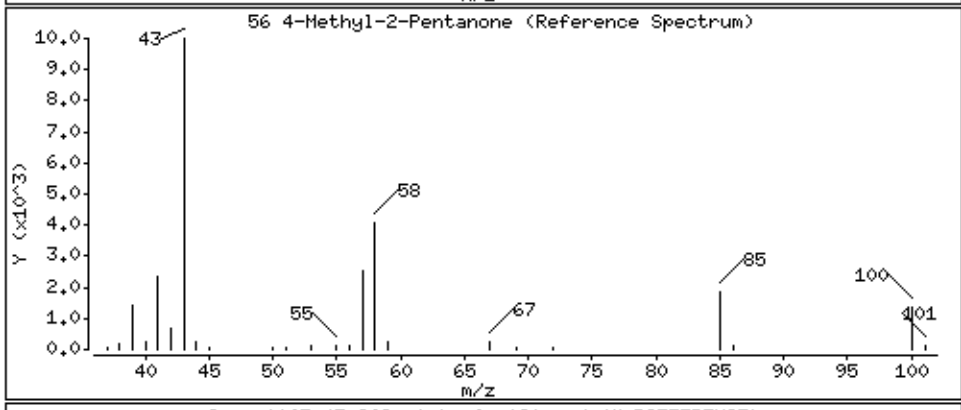
Column diameter: 0.18

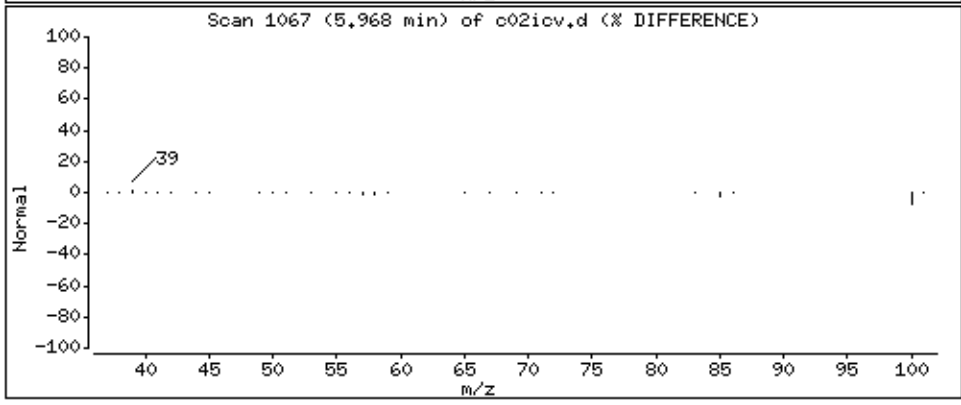
56 4-Methyl-2-Pentanone

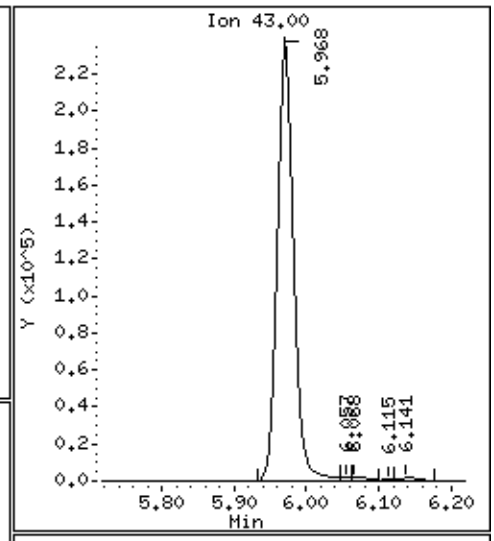
Concentration: 277 ppb

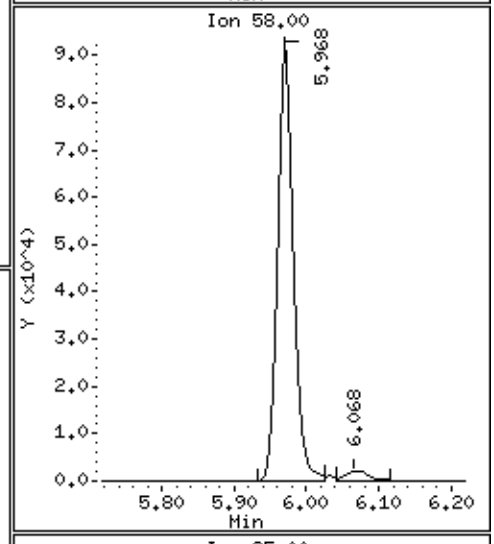


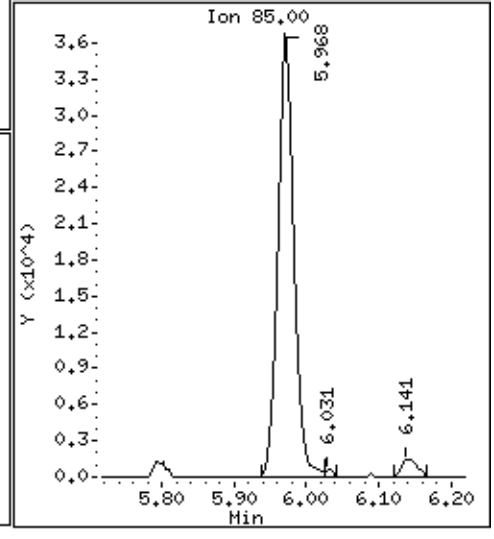












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

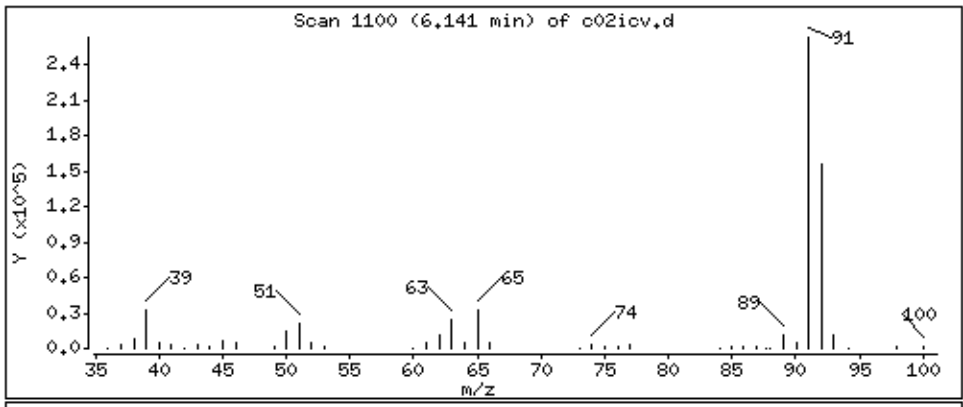
Operator: grm

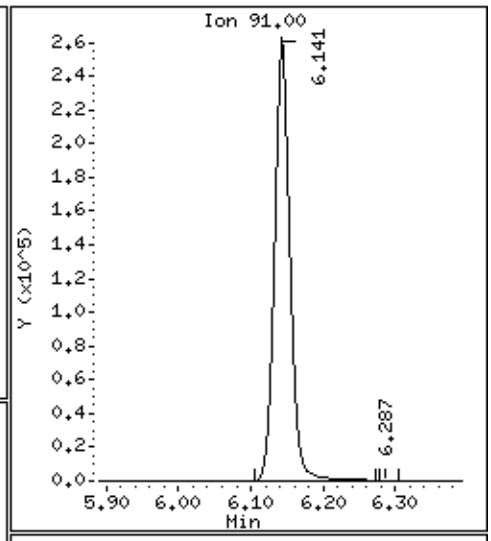
Column phase: DB-624

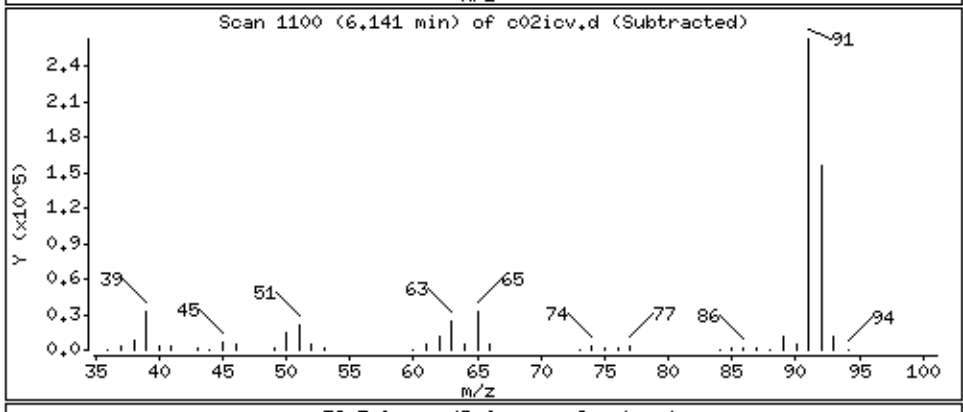
Column diameter: 0.18

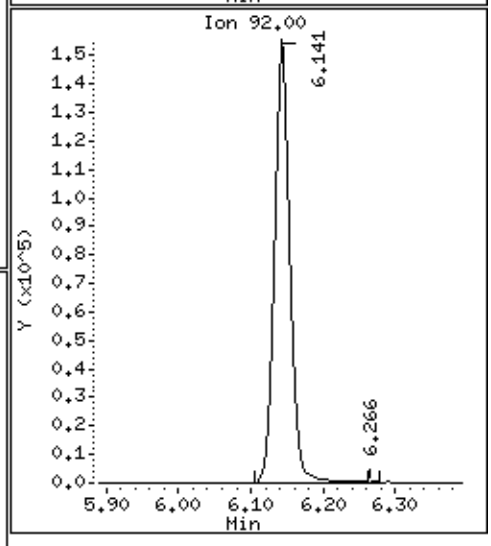
58 Toluene

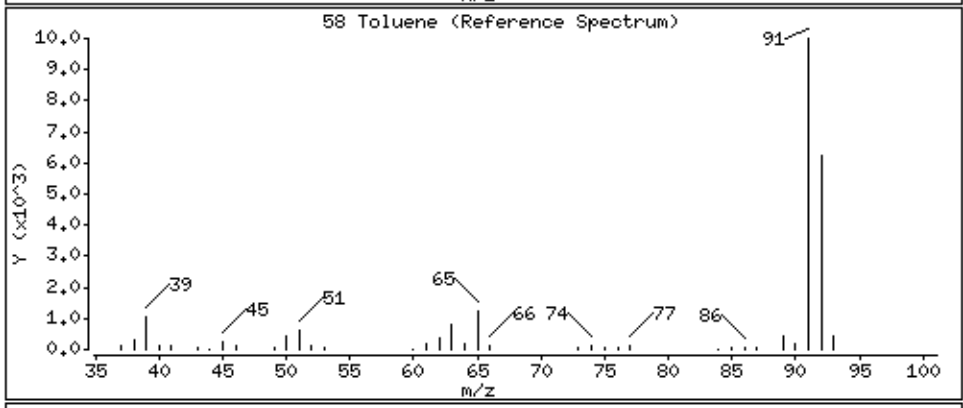
Concentration: 49.8 ppb

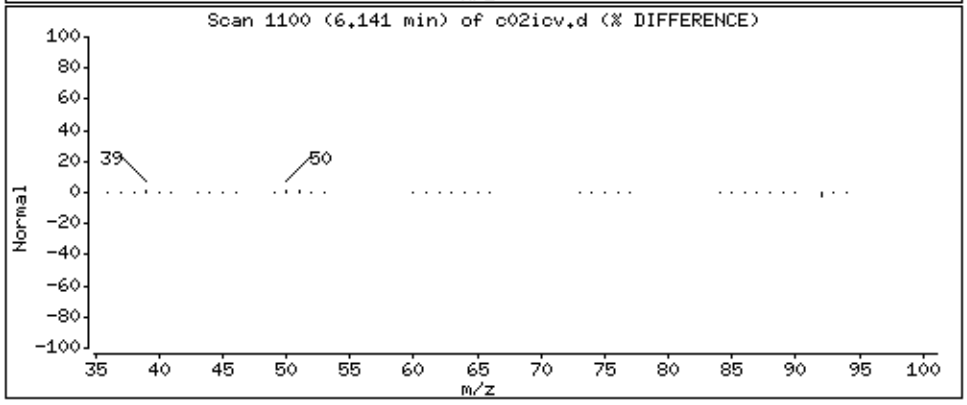












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

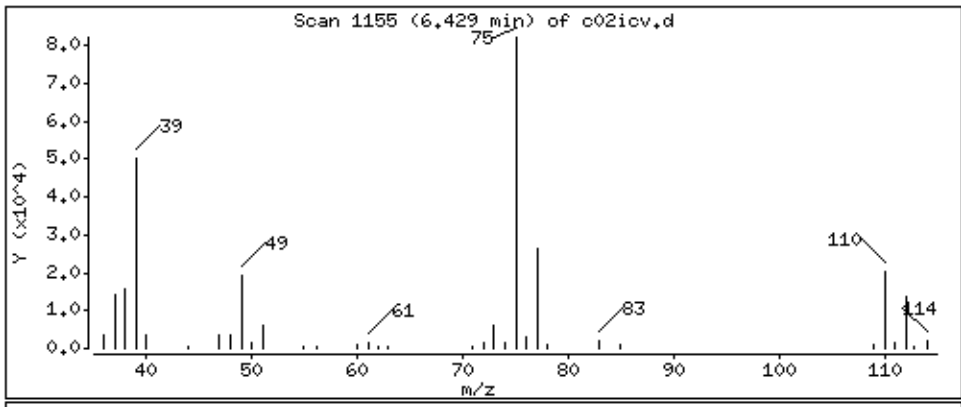
Operator: grm

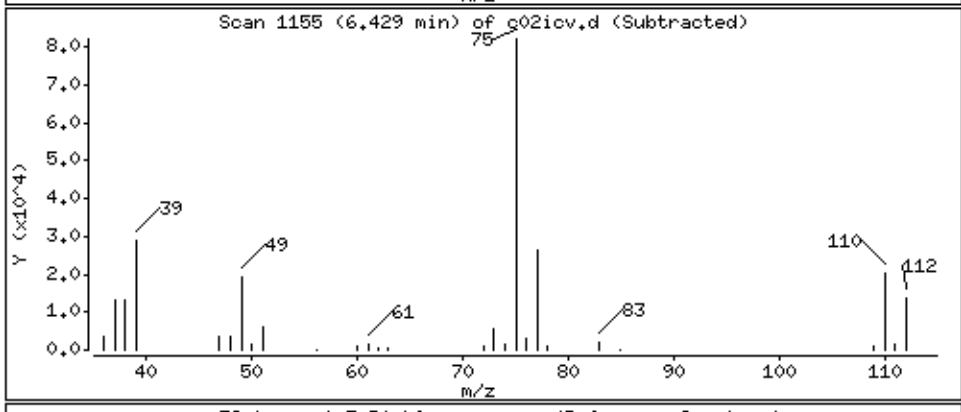
Column phase: DB-624

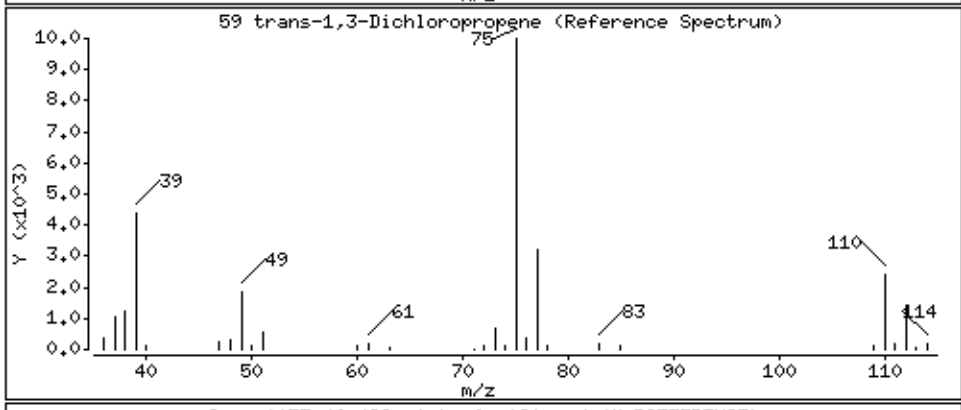
Column diameter: 0.18

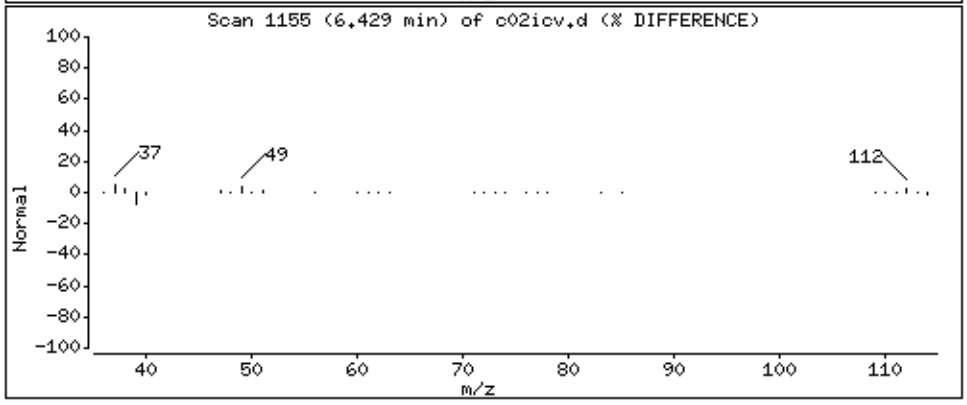
59 trans-1,3-Dichloropropene

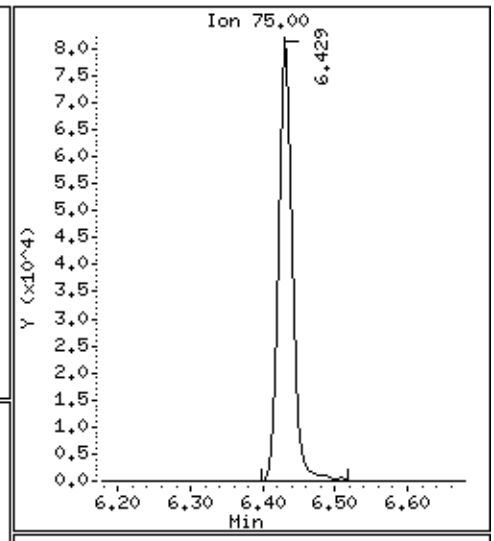
Concentration: 54.8 ppb

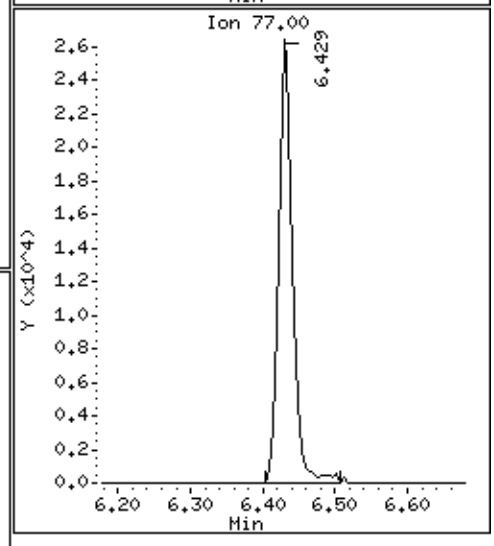












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 62

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

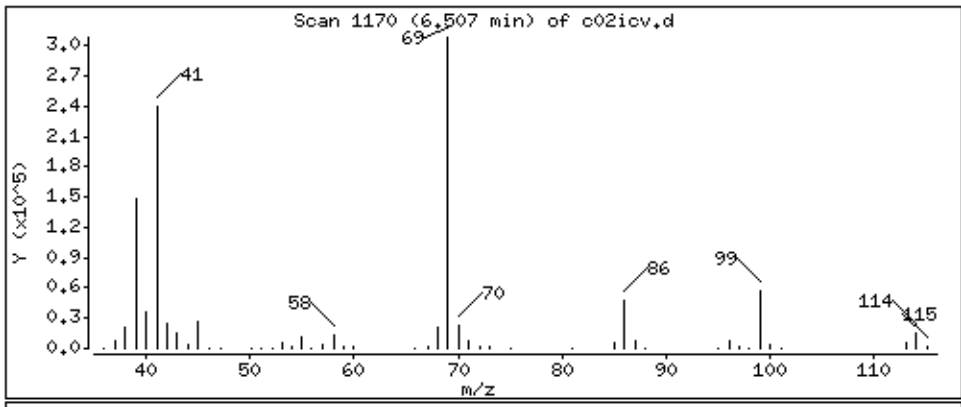
Operator: grm

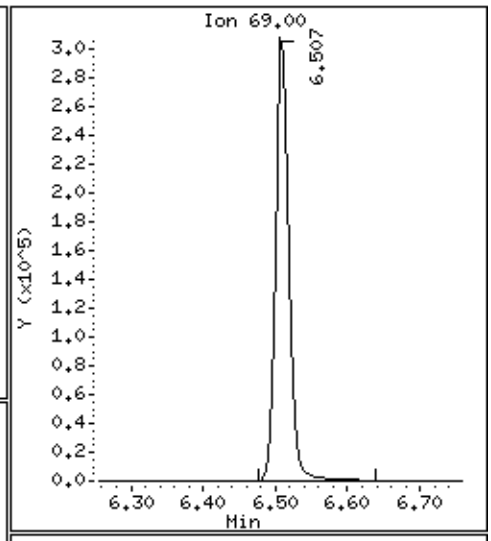
Column phase: DB-624

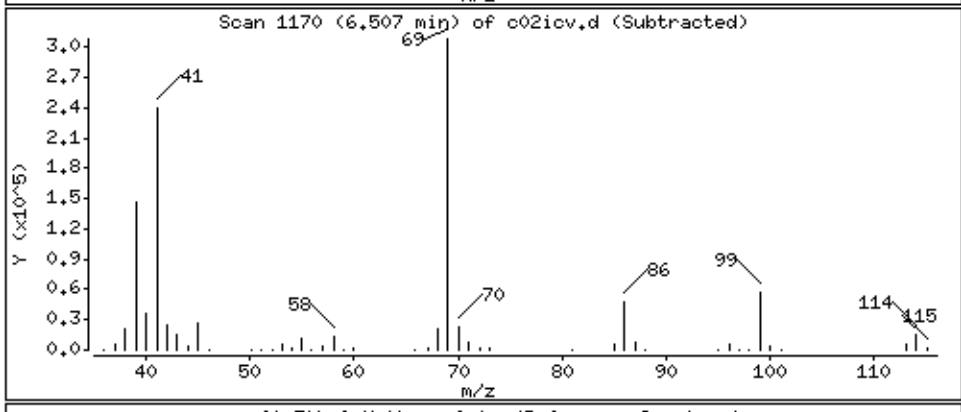
Column diameter: 0.18

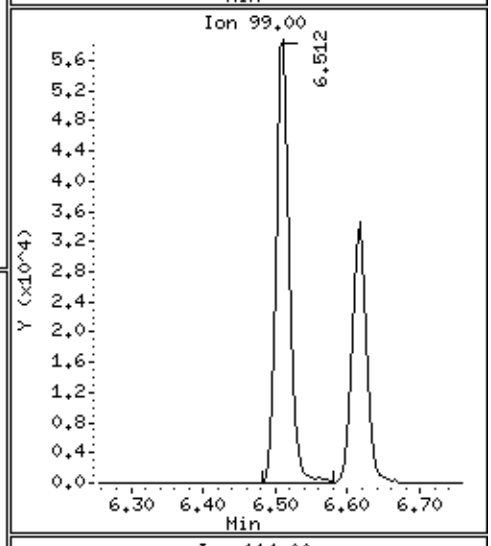
60 Ethyl Methacrylate

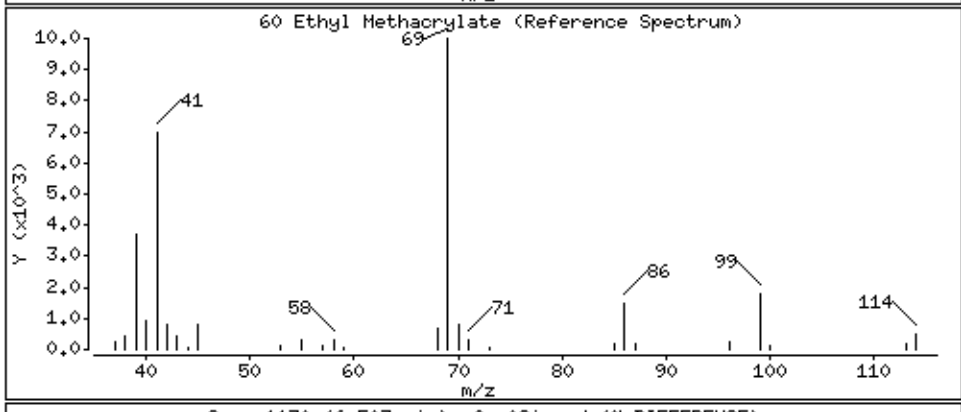
Concentration: 216 ppb

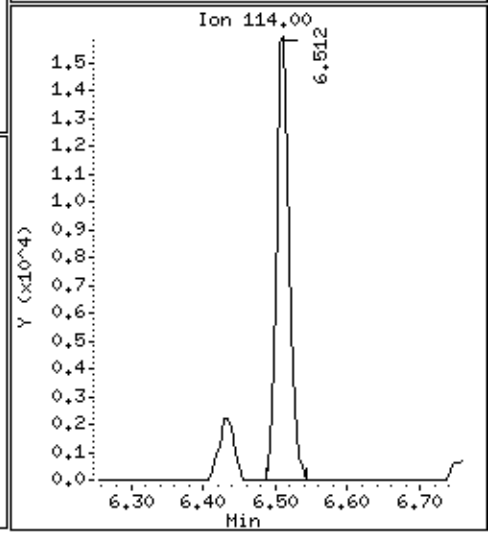


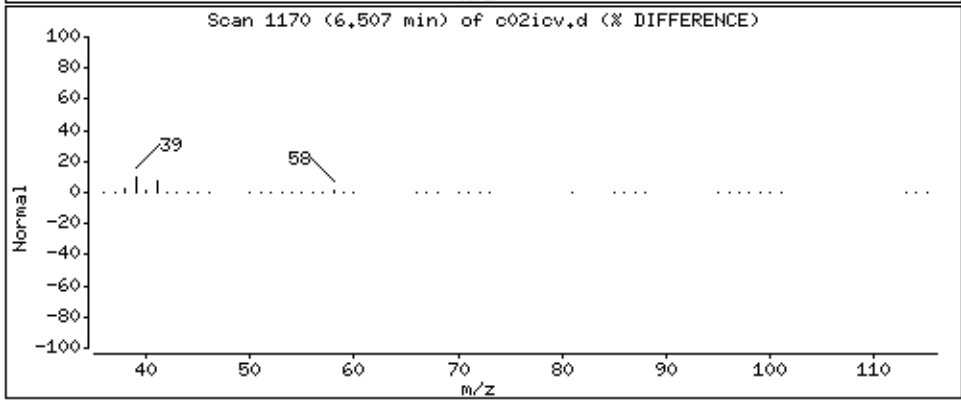












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

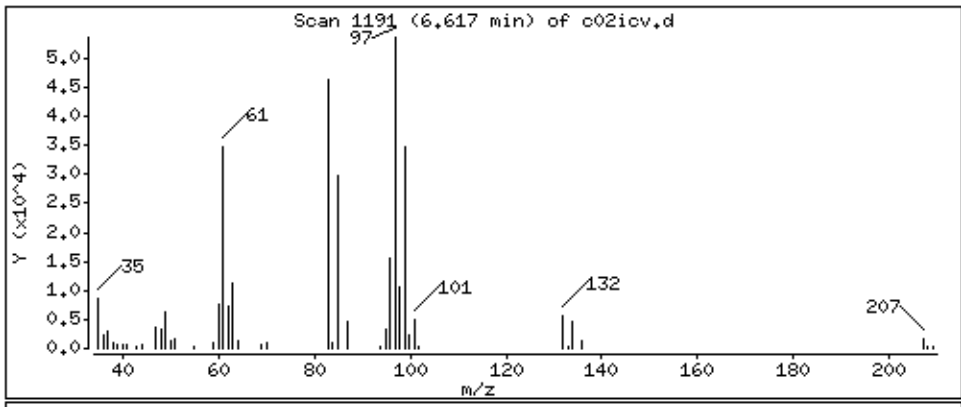
Operator: grm

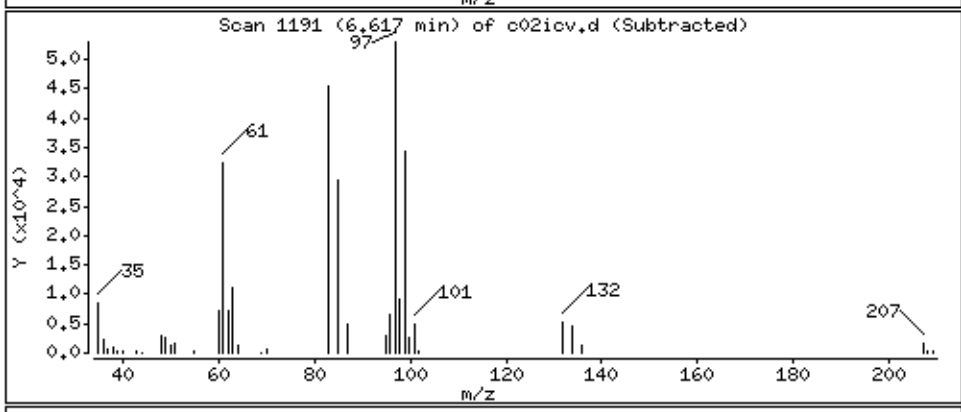
Column phase: DB-624

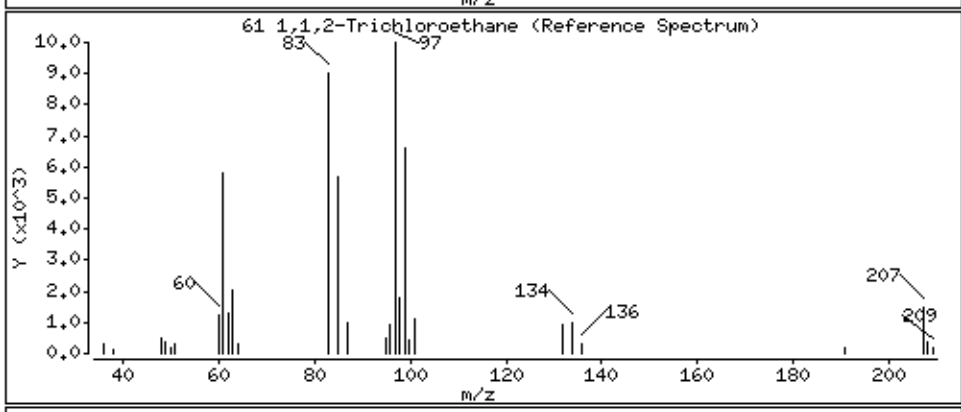
Column diameter: 0.18

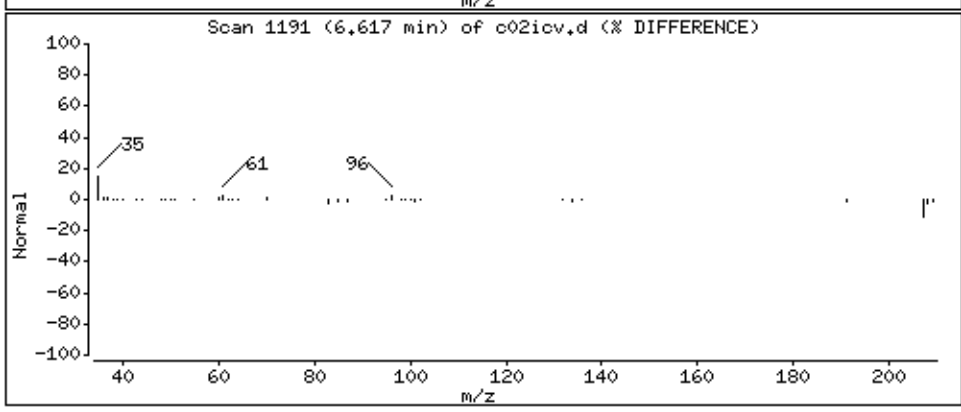
61 1,1,2-Trichloroethane

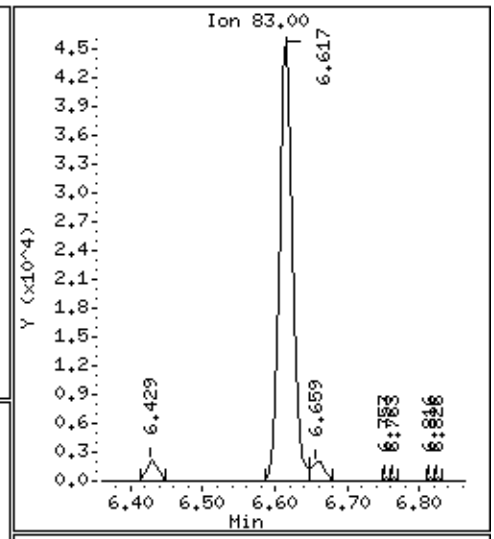
Concentration: 53.9 ppb

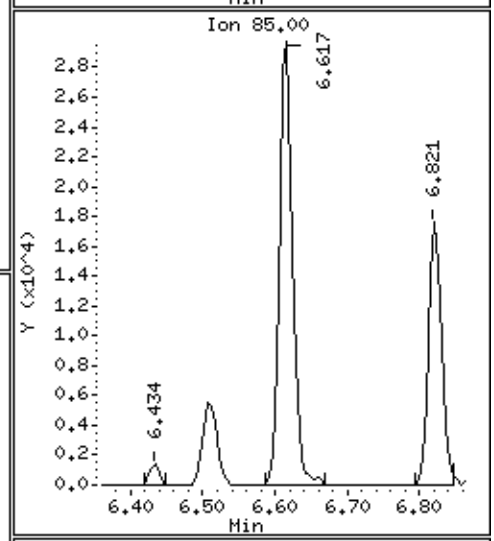


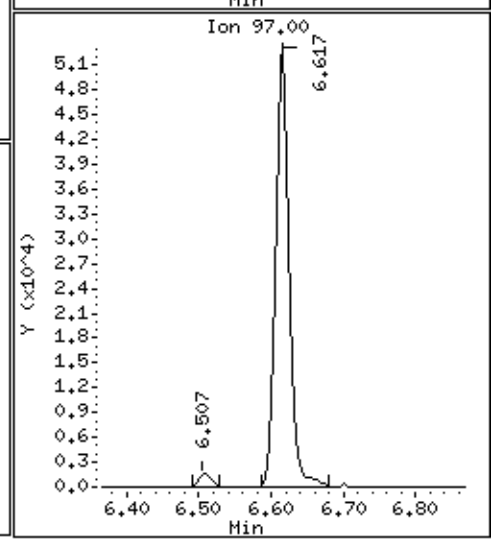












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

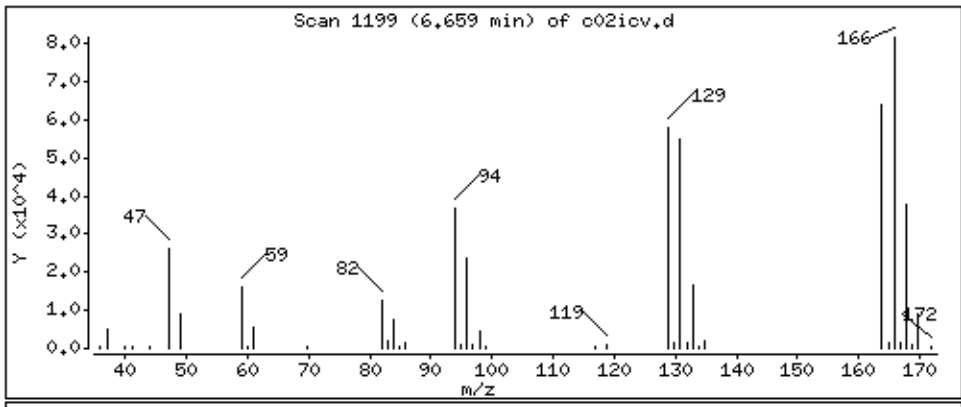
Operator: grm

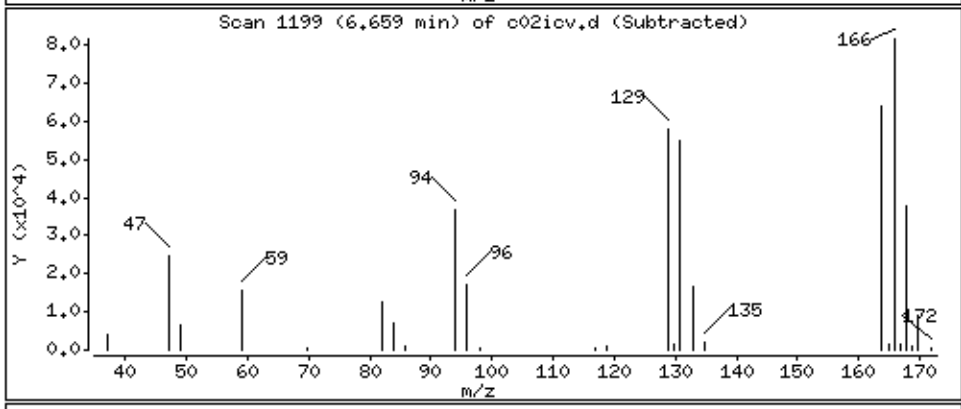
Column phase: DB-624

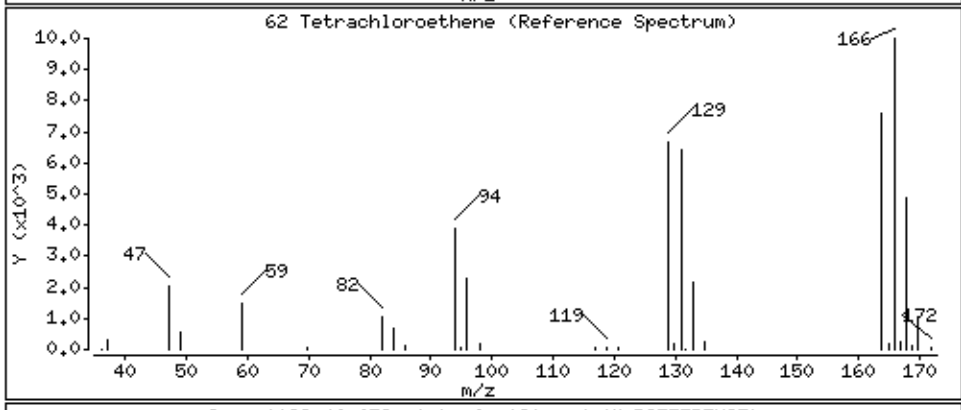
Column diameter: 0.18

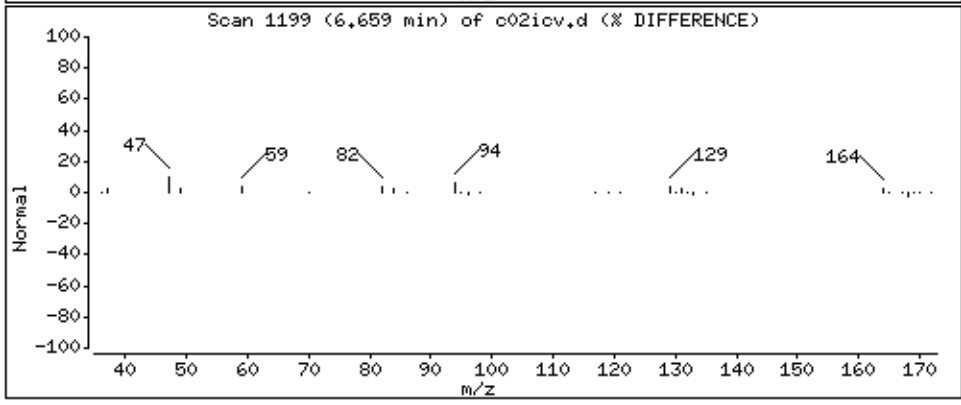
62 Tetrachloroethene

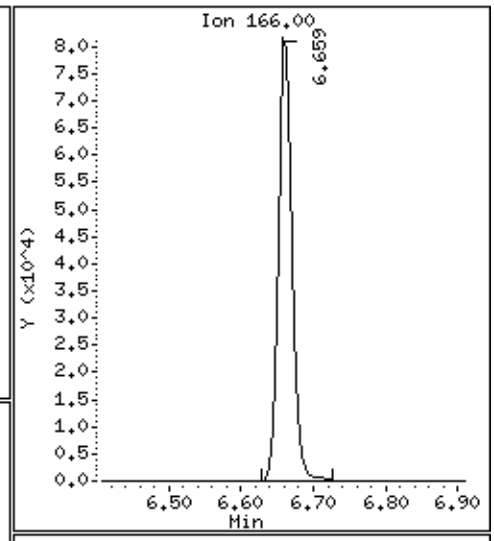
Concentration: 49.4 ppb

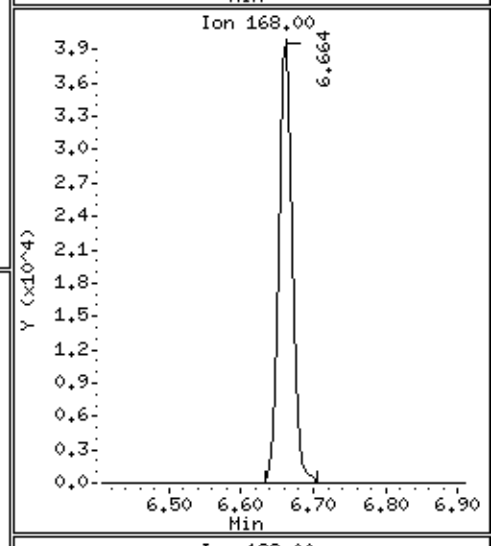


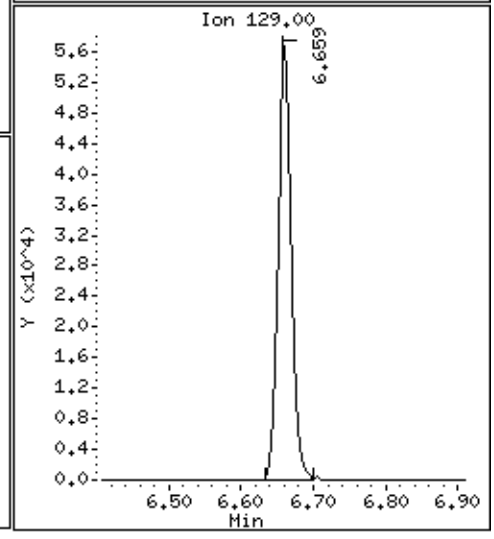












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

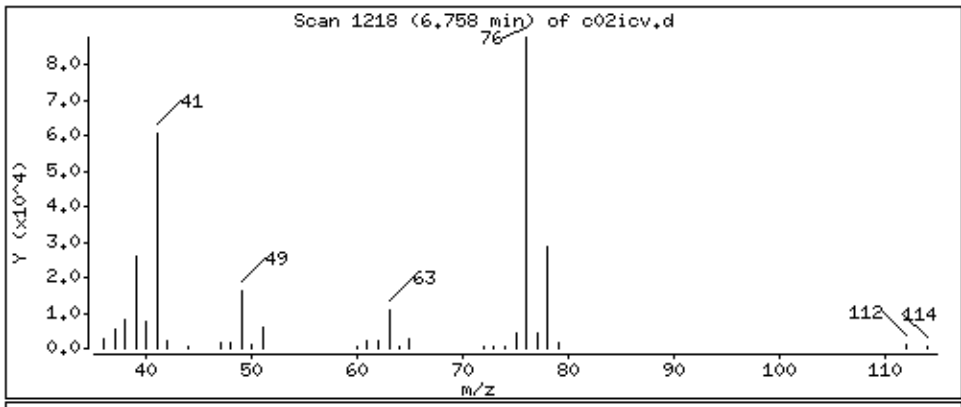
Operator: grm

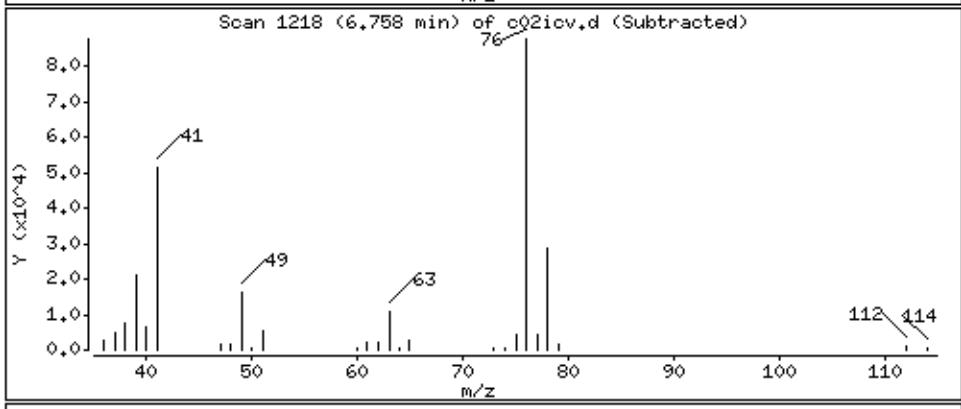
Column phase: DB-624

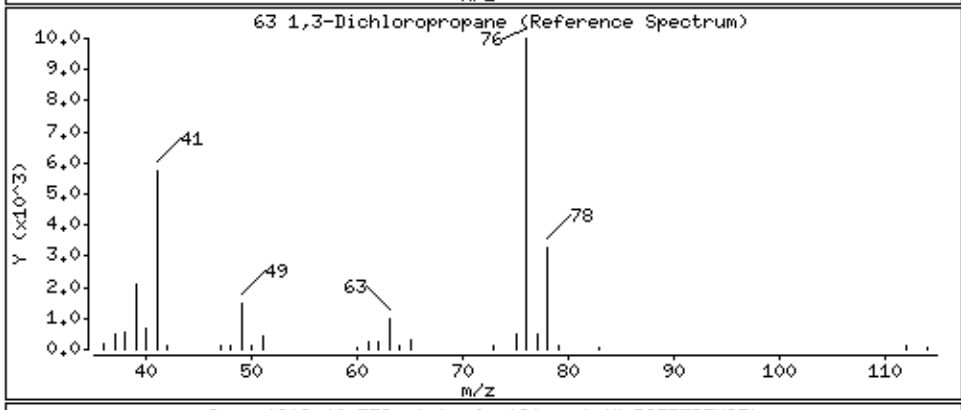
Column diameter: 0.18

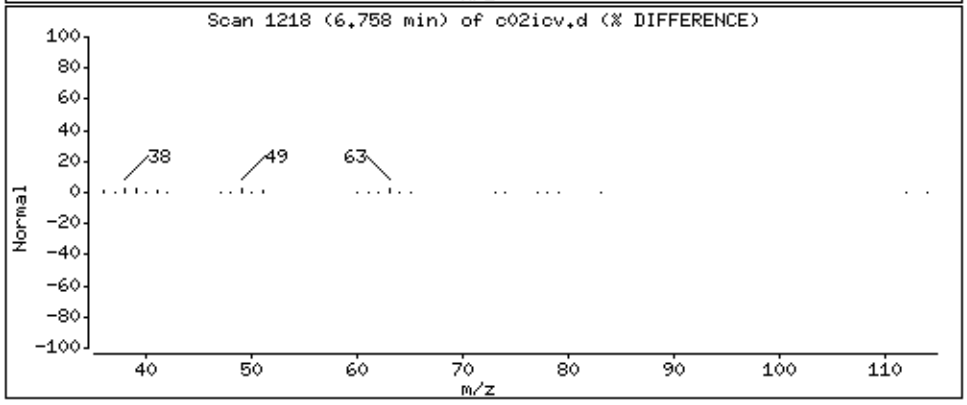
63 1,3-Dichloropropane

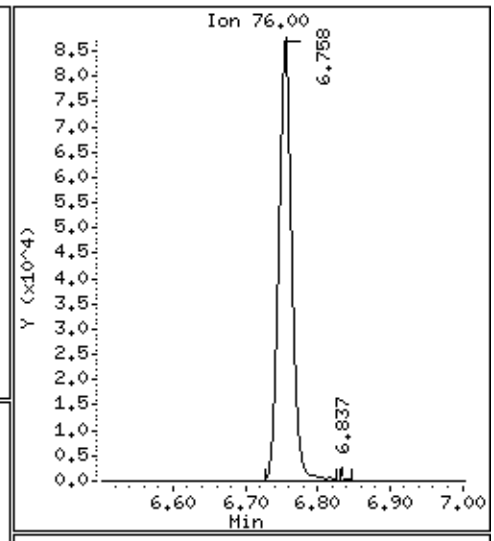
Concentration: 52.8 ppb

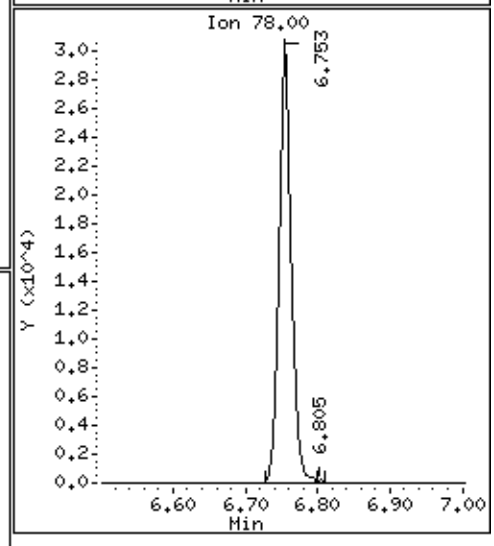












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

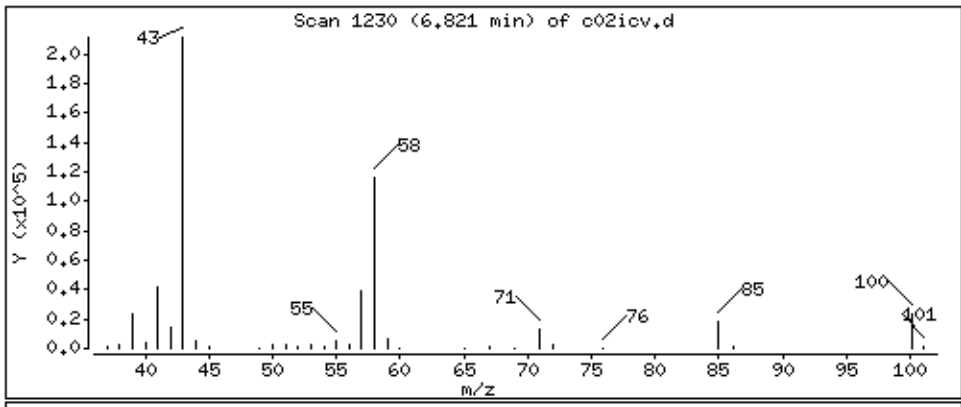
Operator: grm

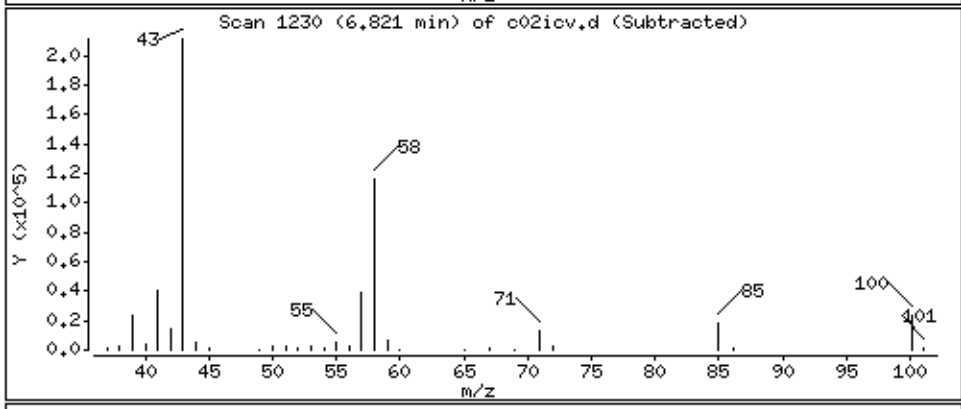
Column phase: DB-624

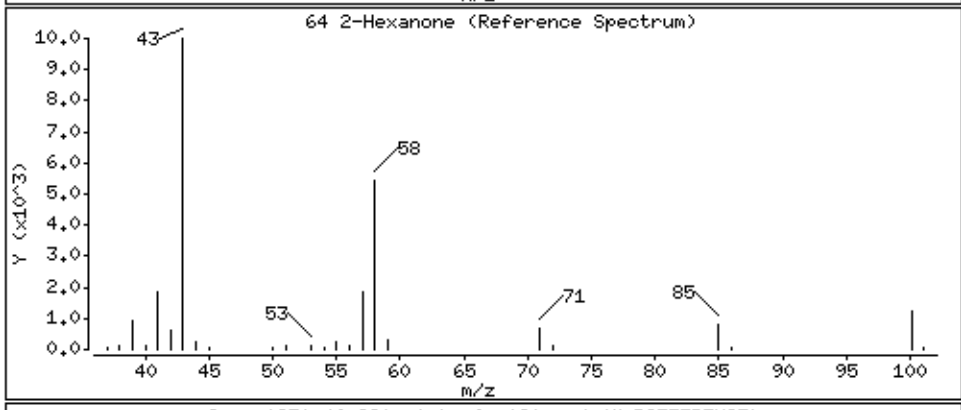
Column diameter: 0.18

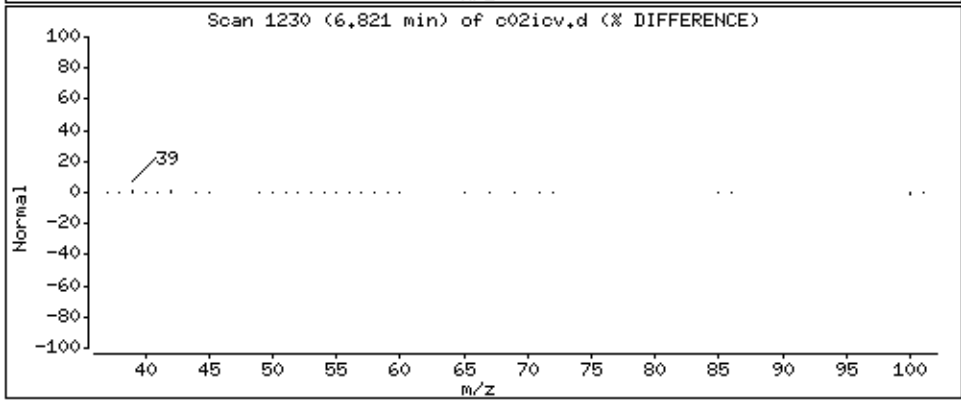
64 2-Hexanone

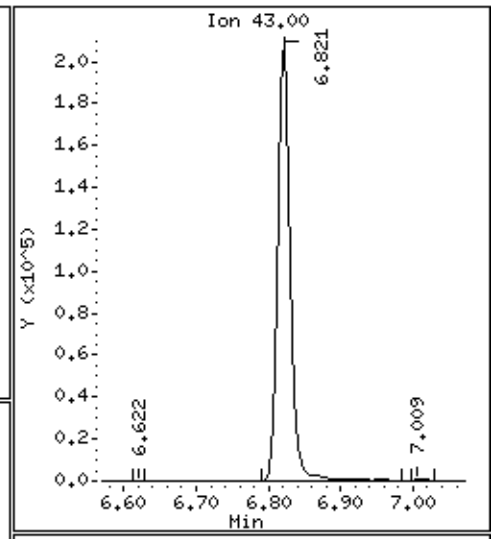
Concentration: 268 ppb

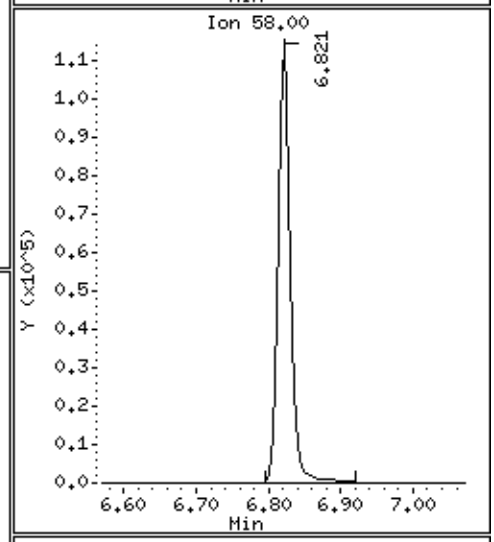


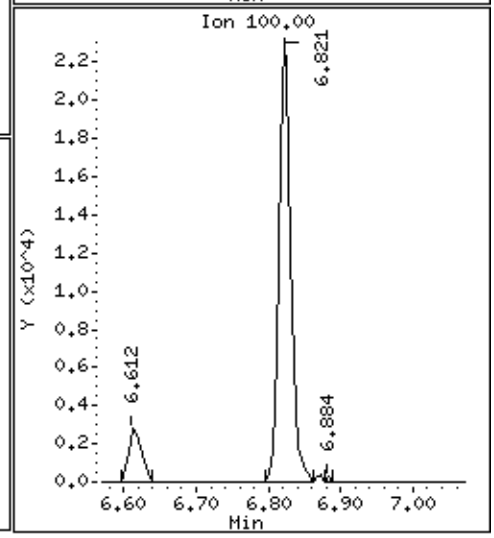












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

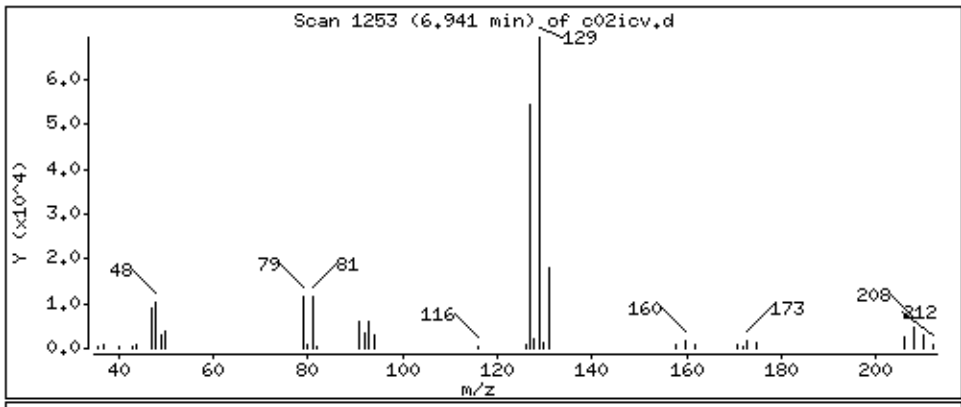
Operator: grm

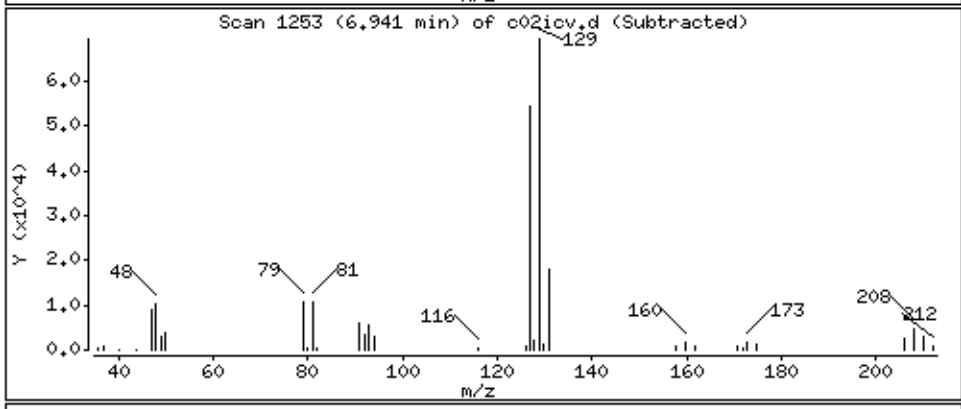
Column phase: DB-624

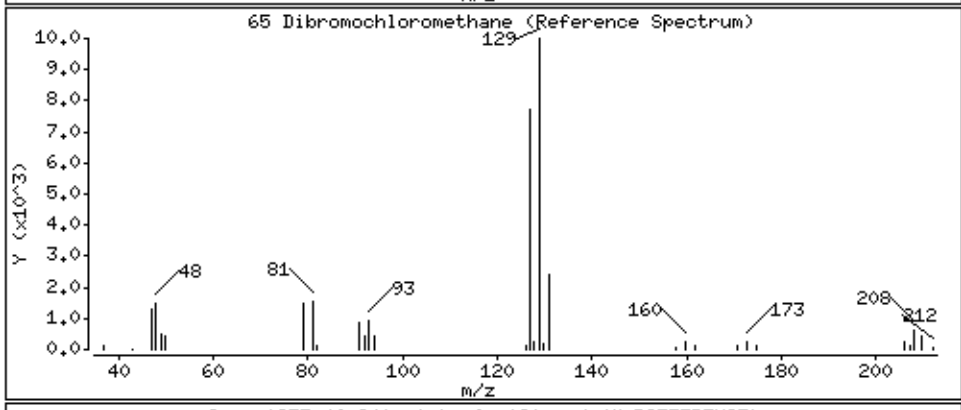
Column diameter: 0.18

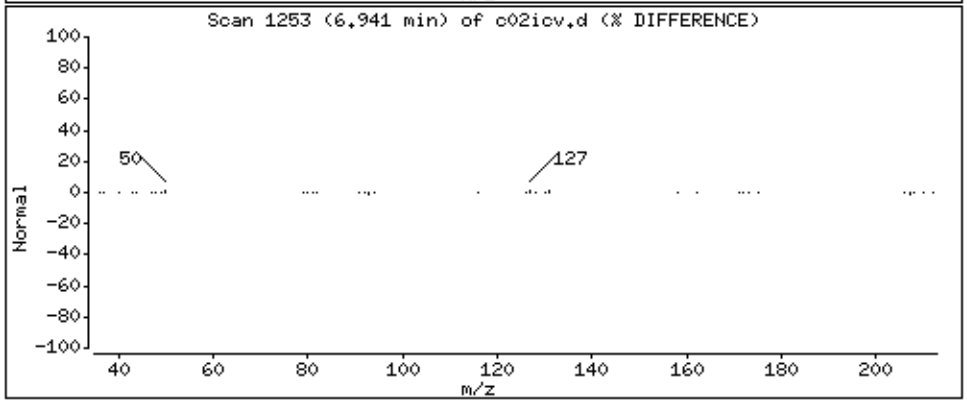
65 Dibromochloromethane

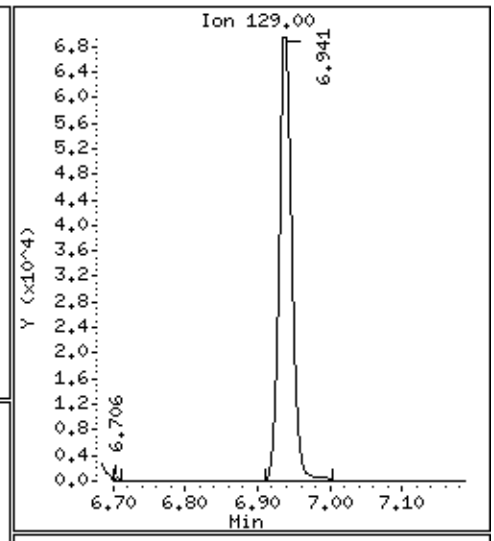
Concentration: 55.4 ppb

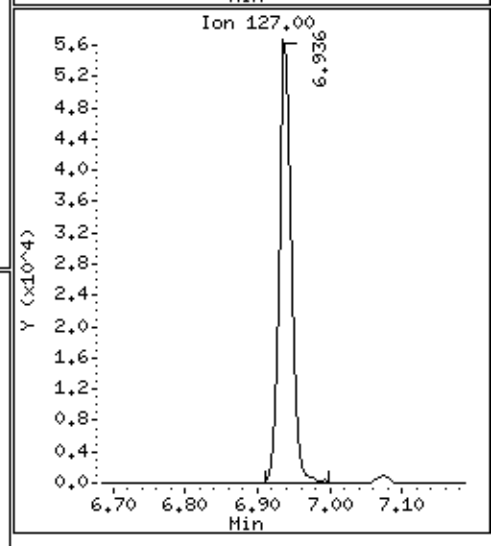












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

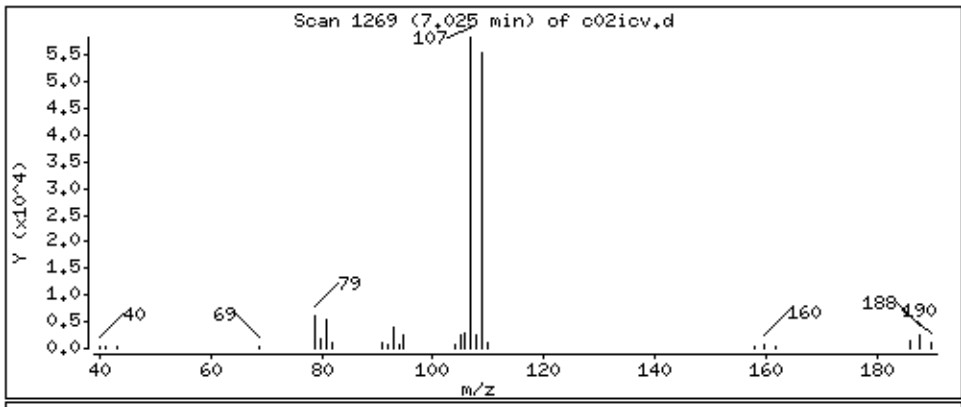
Operator: grm

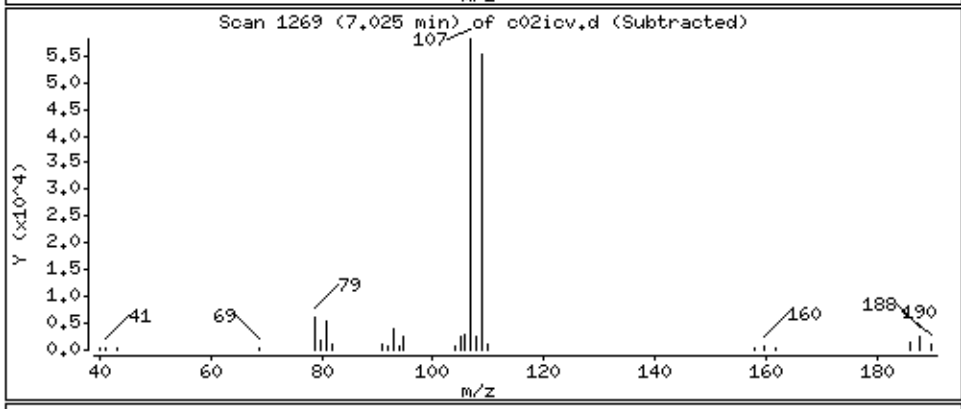
Column phase: DB-624

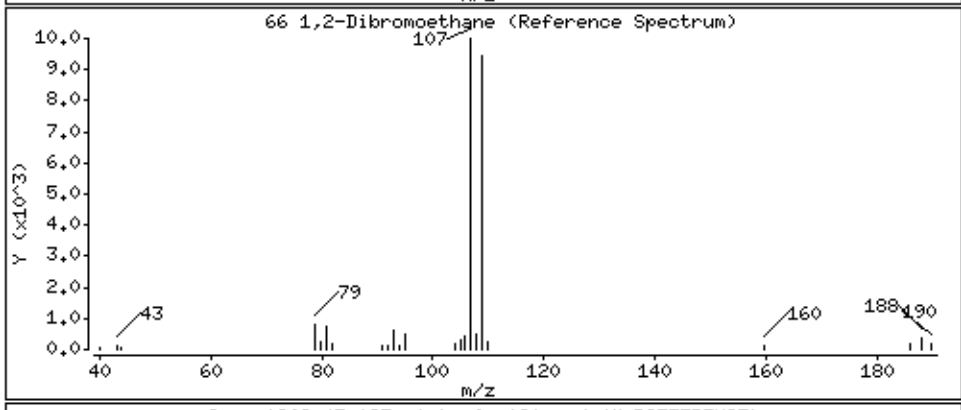
Column diameter: 0.18

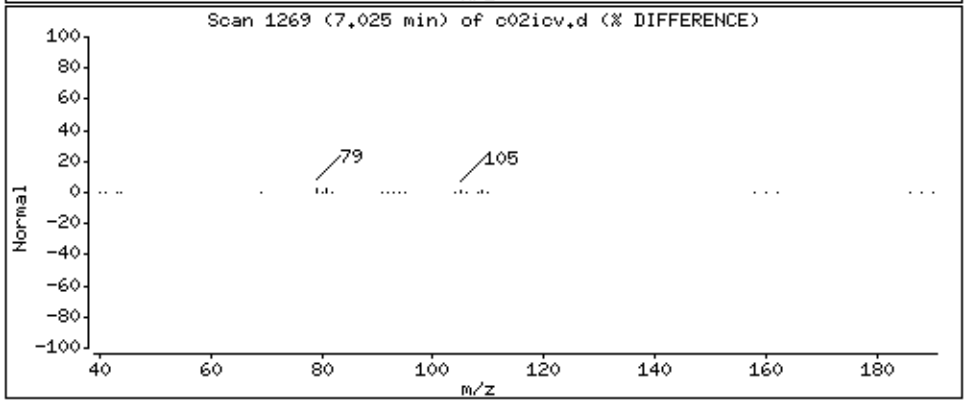
66 1,2-Dibromoethane

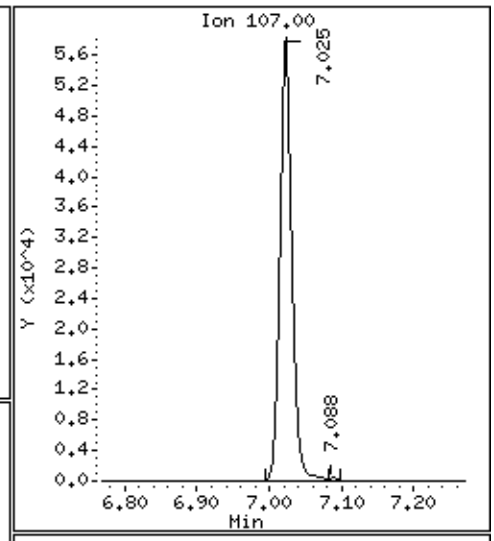
Concentration: 53.6 ppb

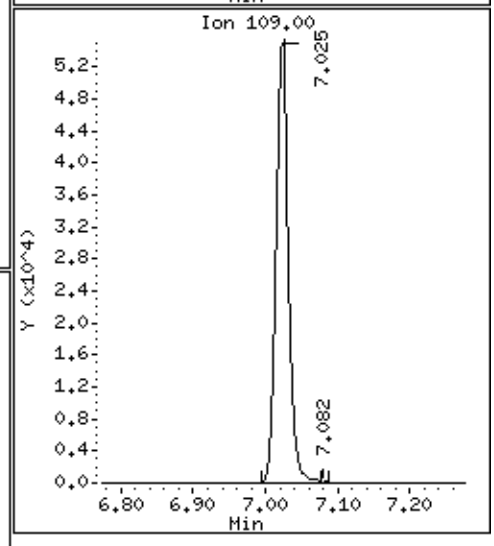












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

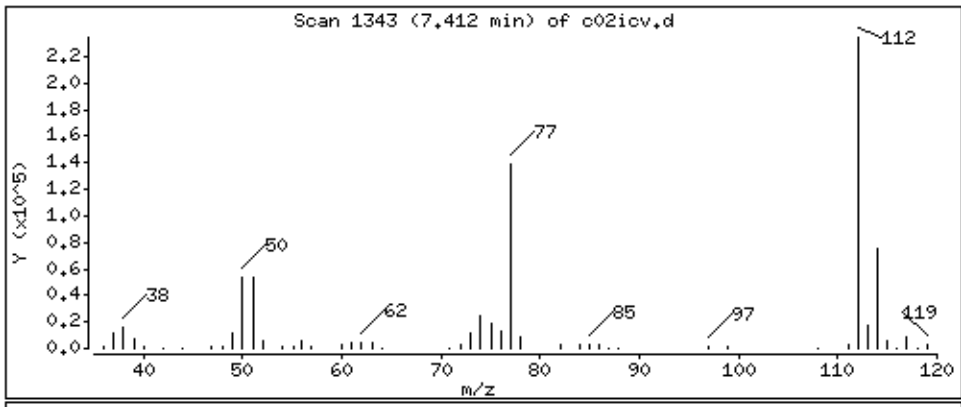
Operator: grm

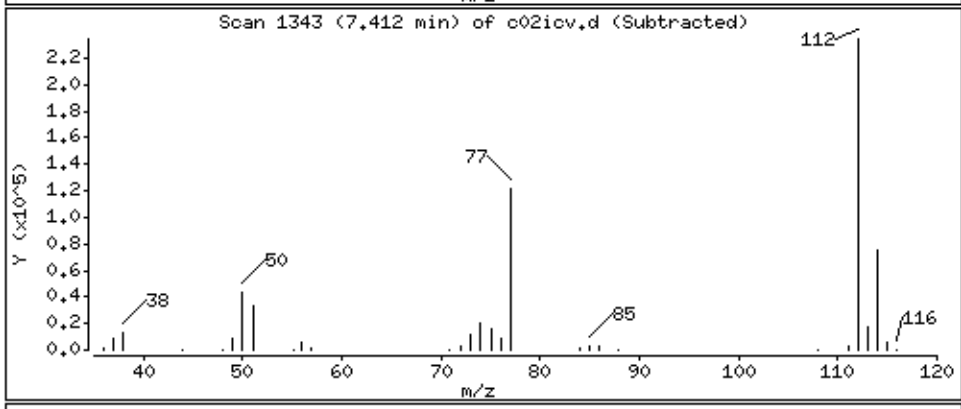
Column phase: DB-624

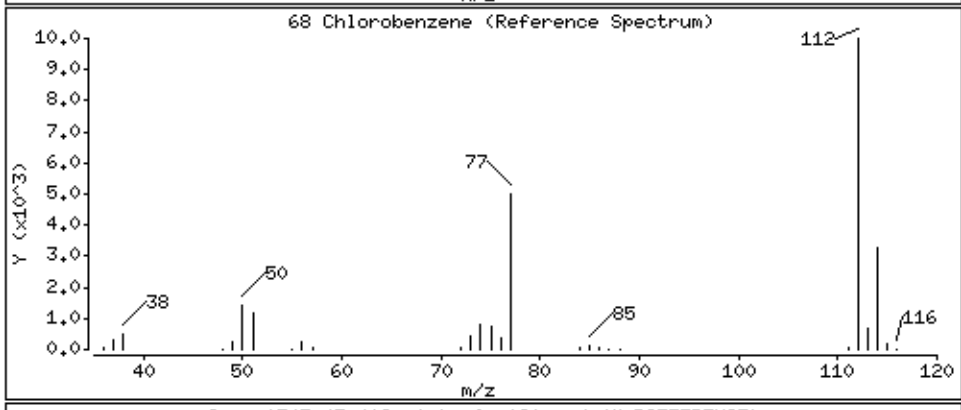
Column diameter: 0.18

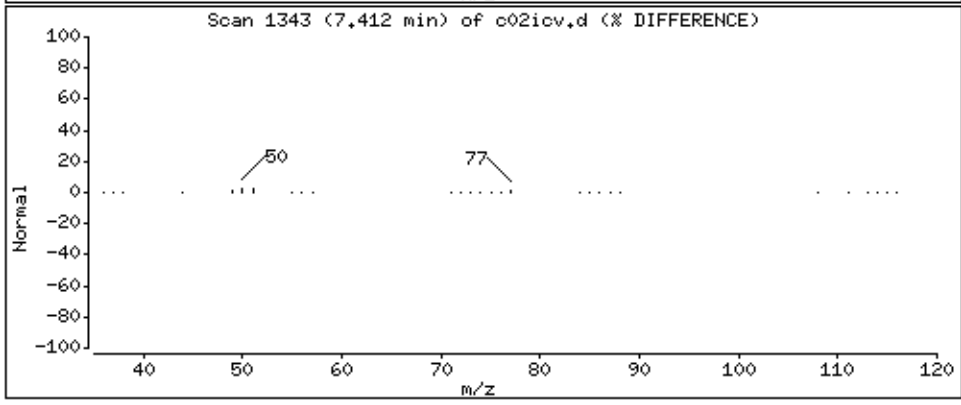
68 Chlorobenzene

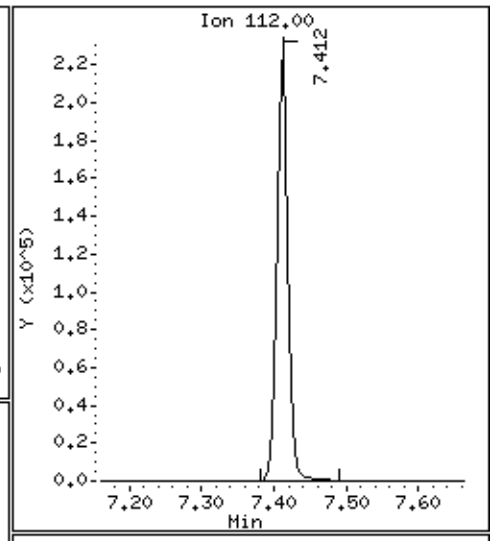
Concentration: 49.7 ppb

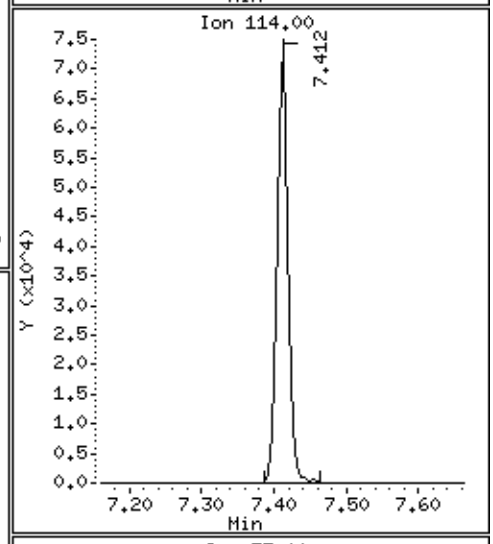


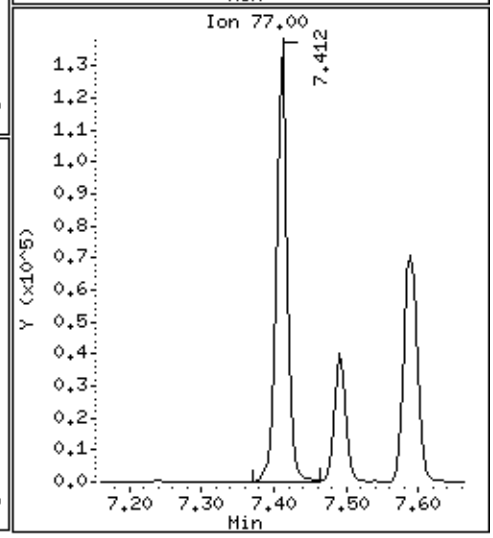












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

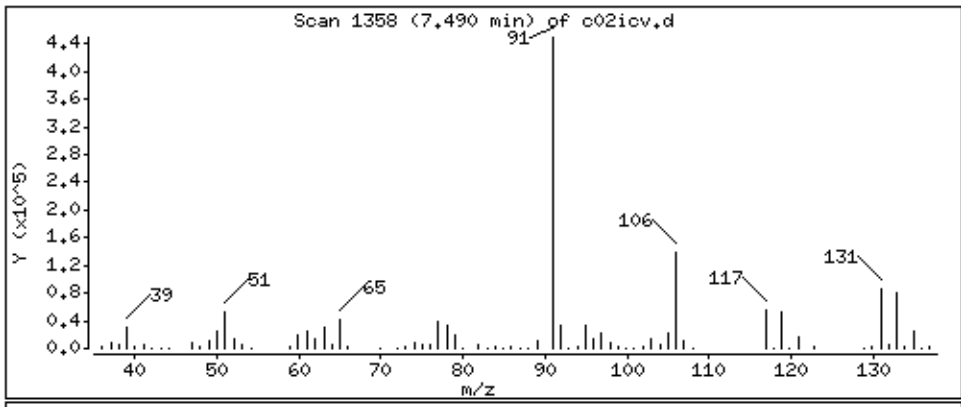
Operator: grm

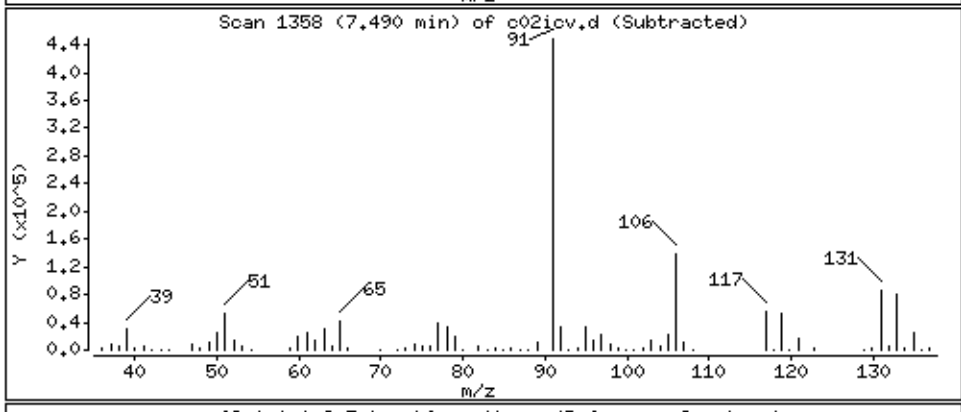
Column phase: DB-624

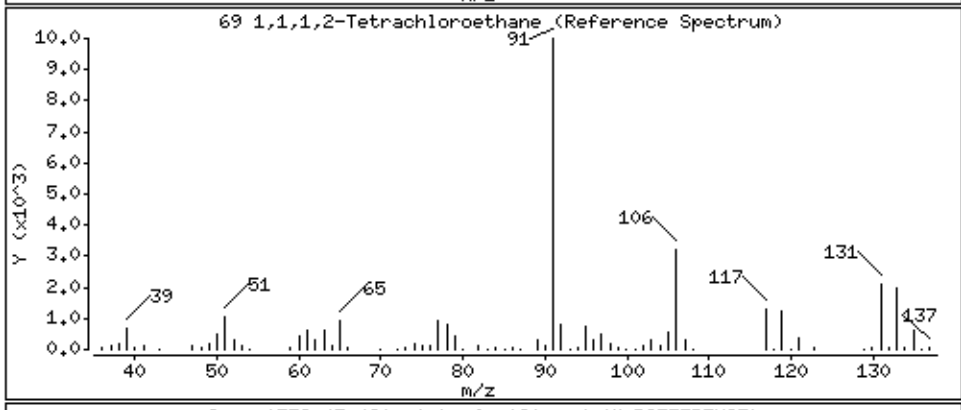
Column diameter: 0.18

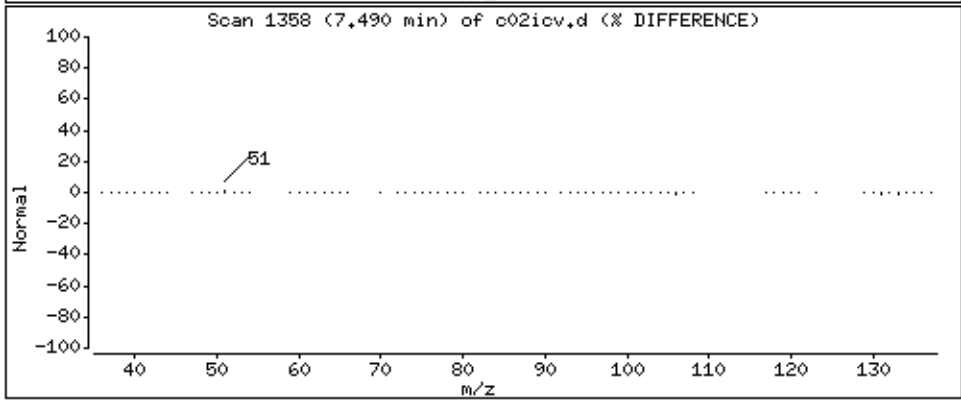
69 1,1,1,2-Tetrachloroethane

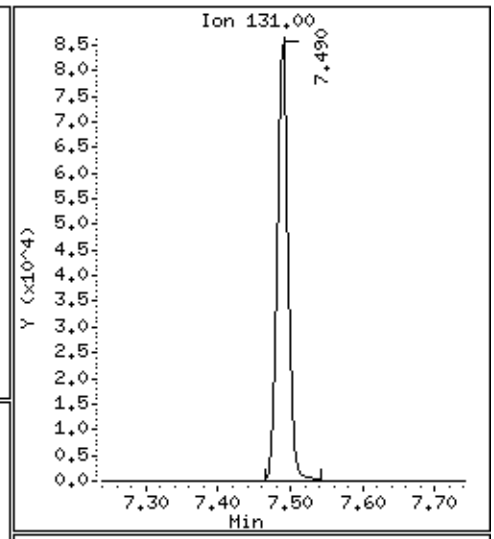
Concentration: 57.0 ppb

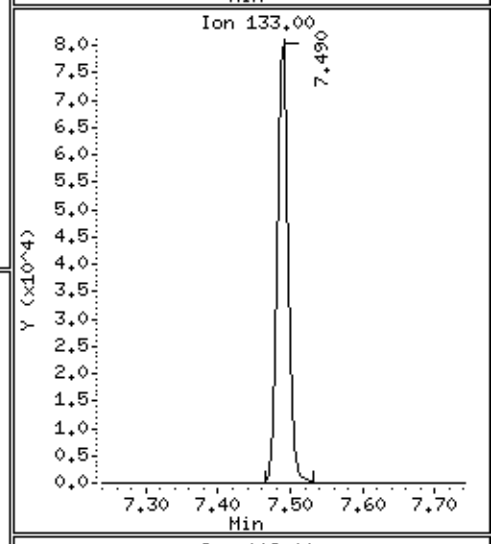


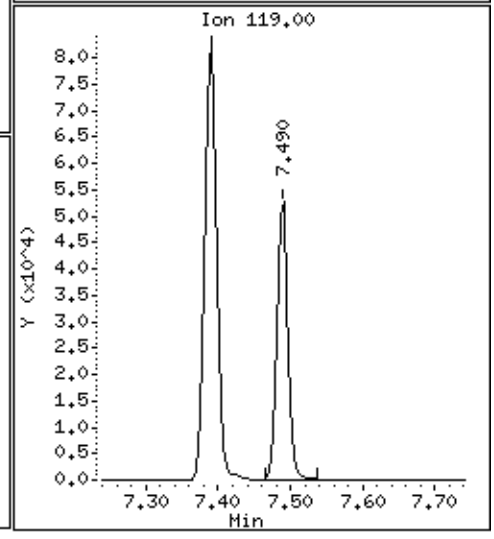












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

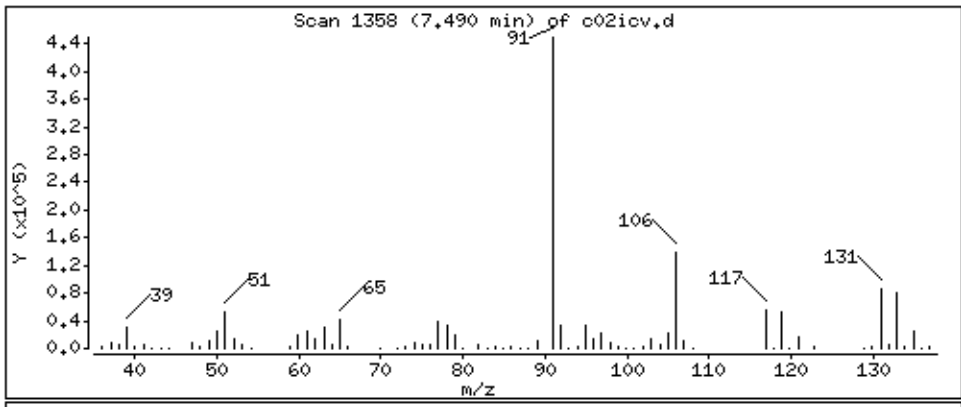
Operator: grm

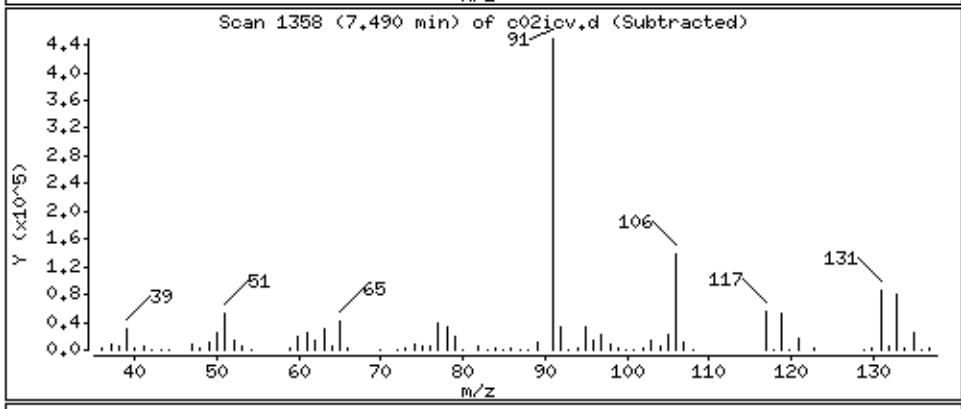
Column phase: DB-624

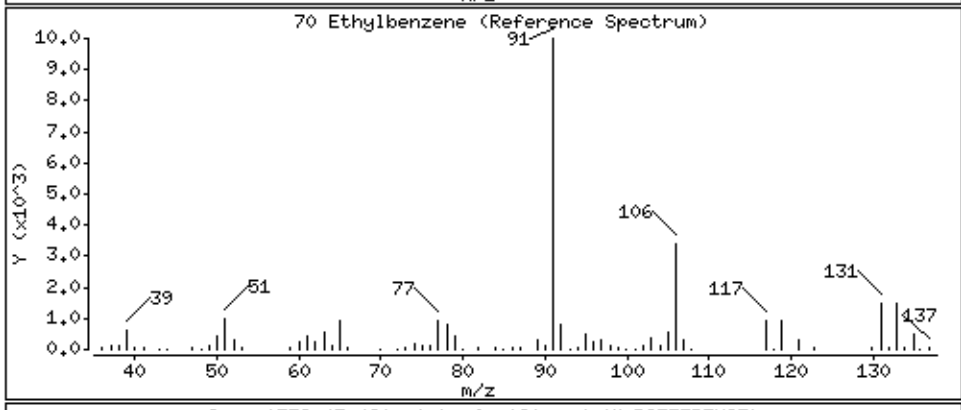
Column diameter: 0.18

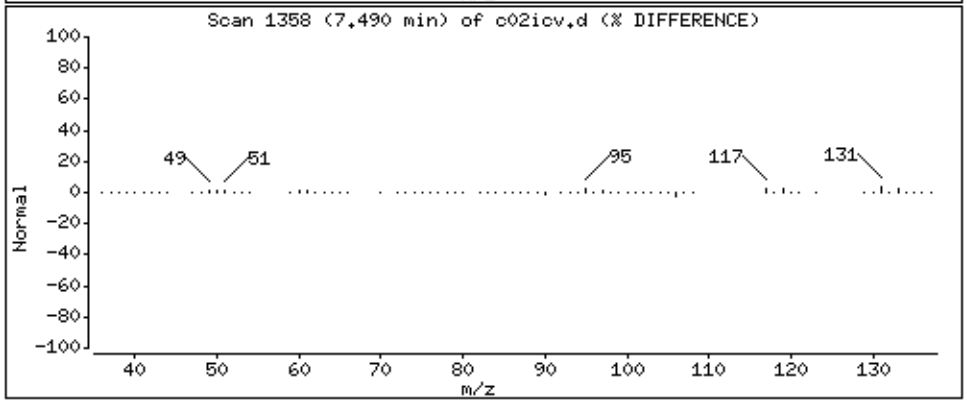
70 Ethylbenzene

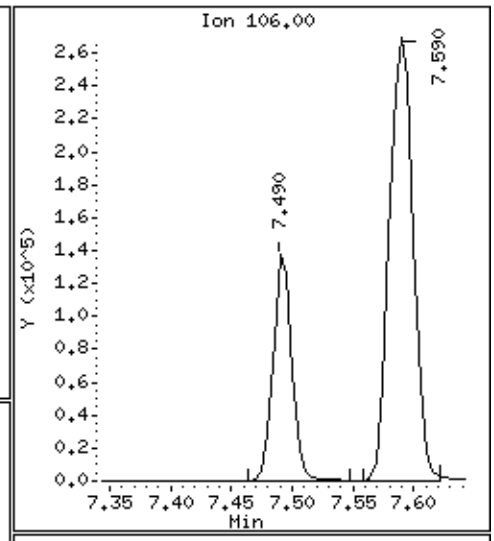
Concentration: 50.9 ppb

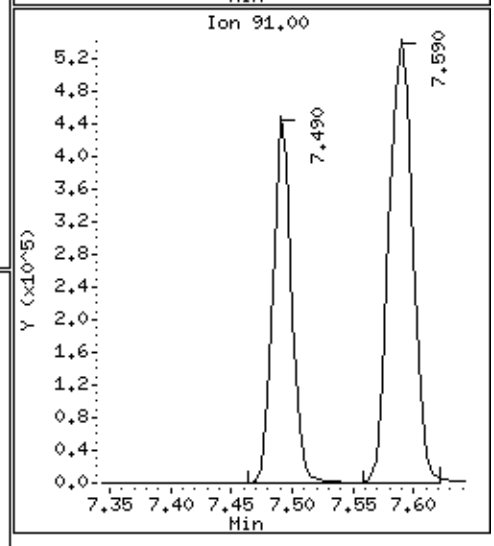












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

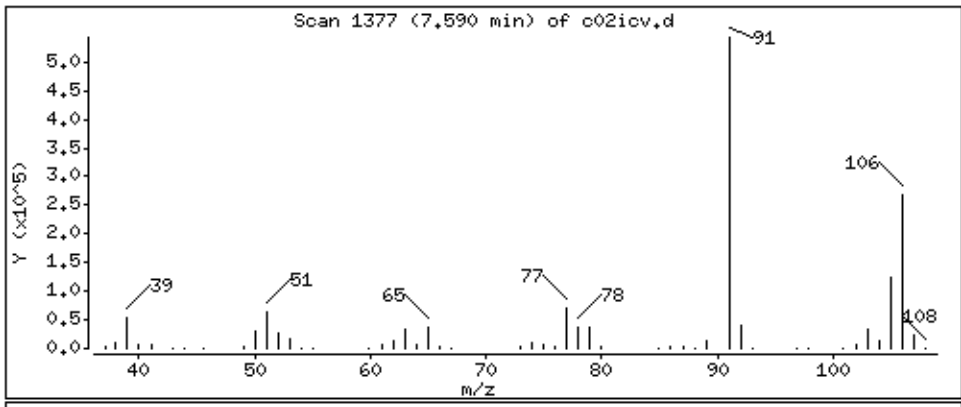
Operator: grm

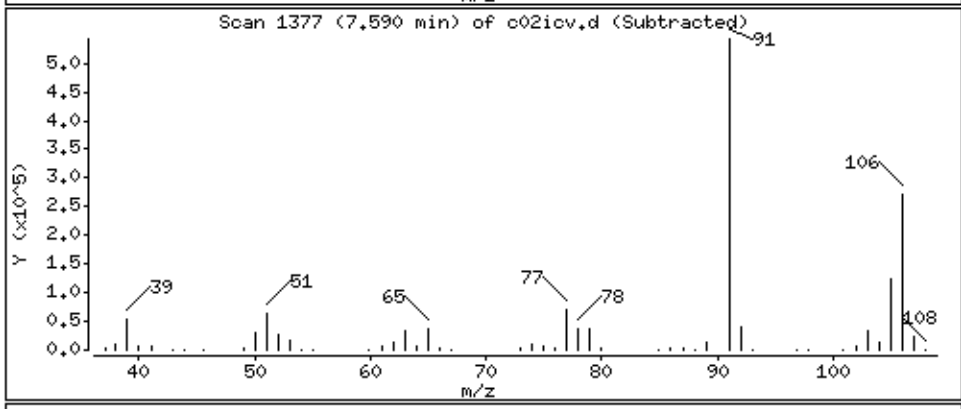
Column phase: DB-624

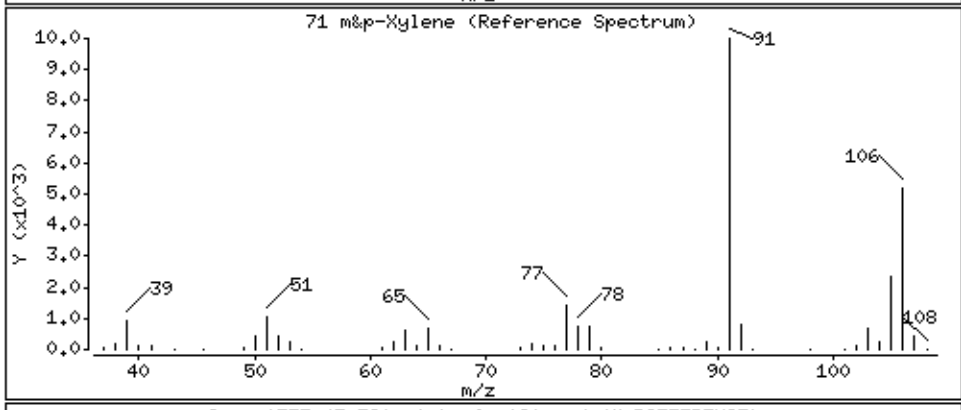
Column diameter: 0.18

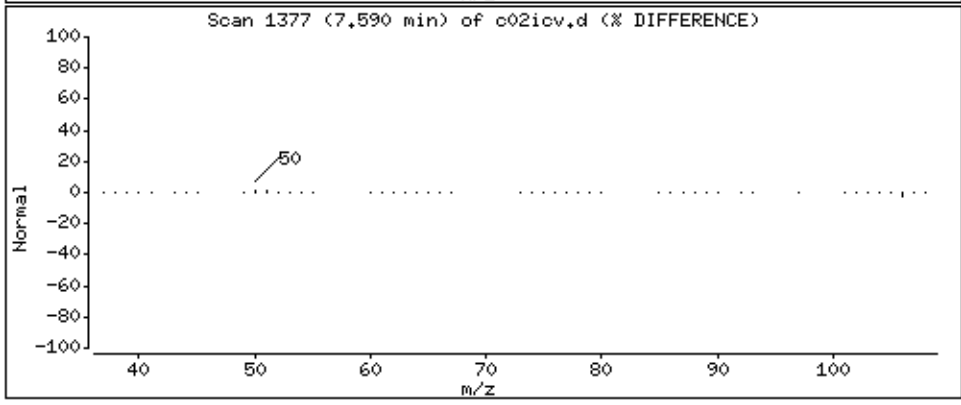
71 m&p-Xylene

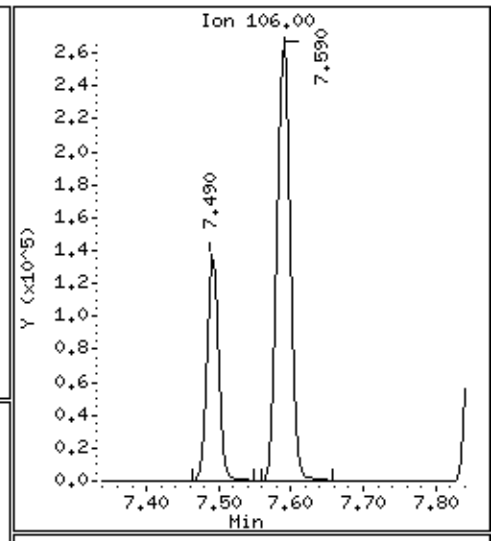
Concentration: 104 ppb

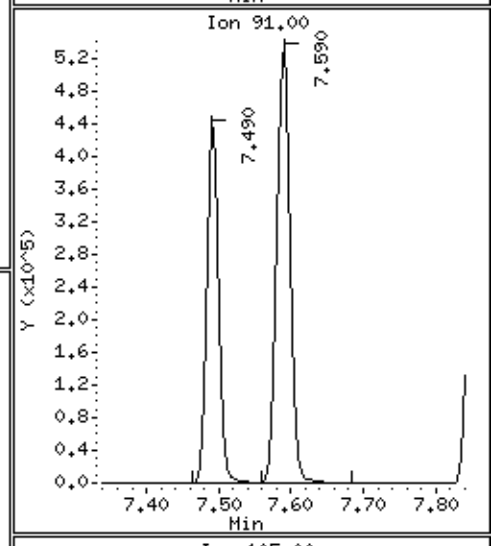


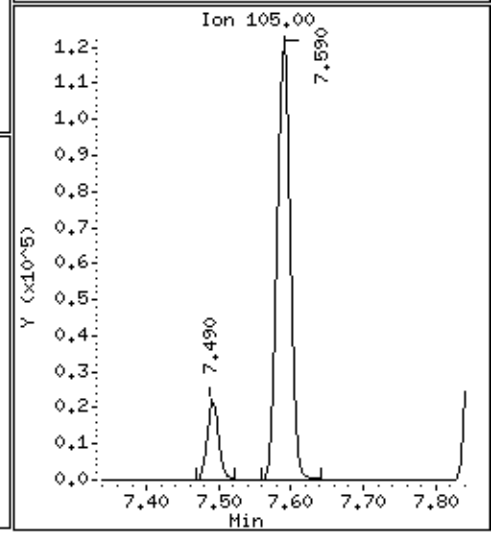












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

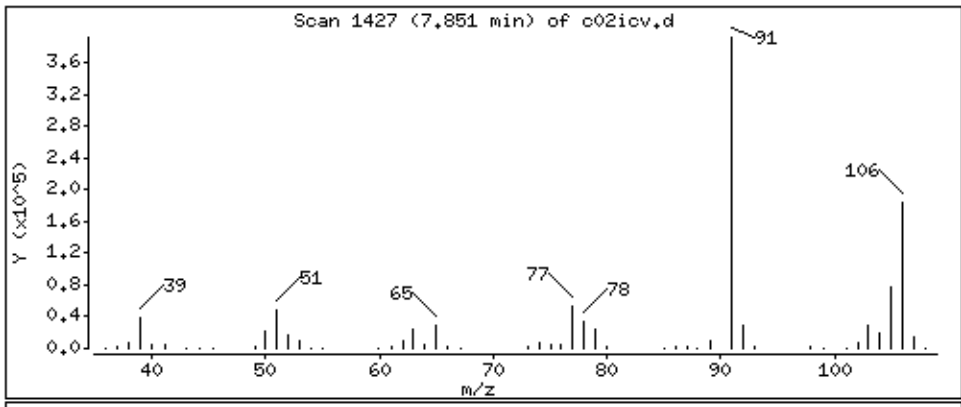
Operator: grm

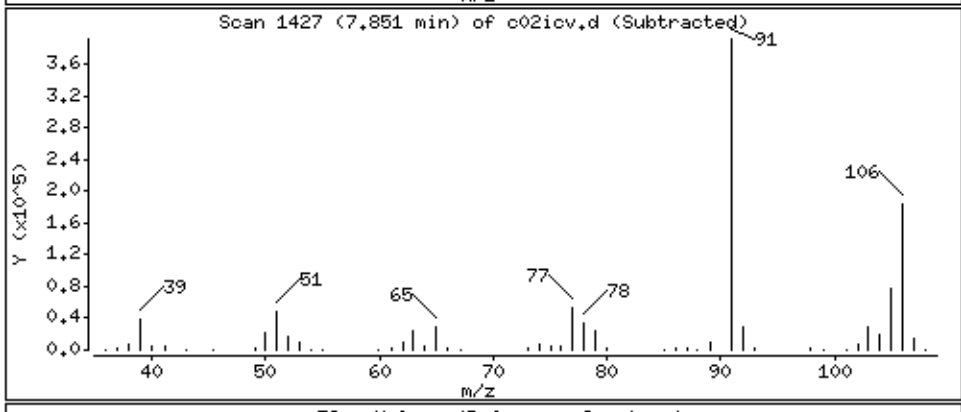
Column phase: DB-624

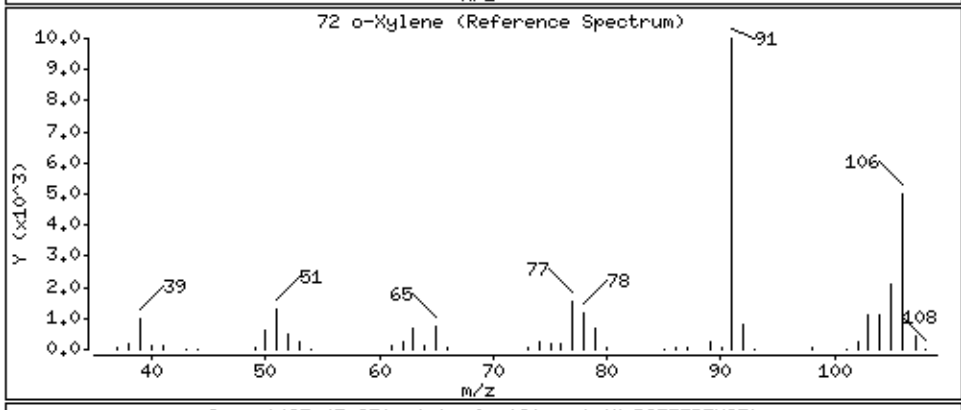
Column diameter: 0.18

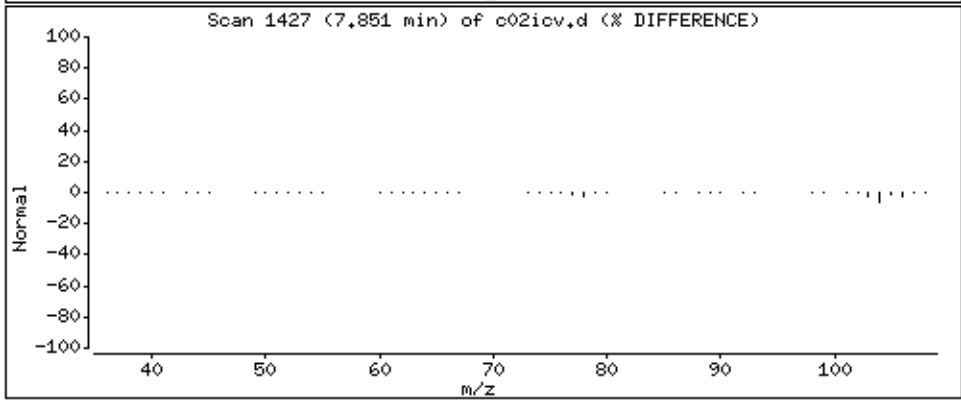
72 o-Xylene

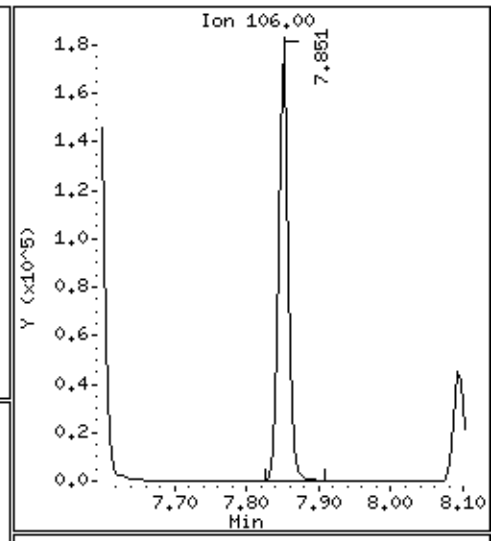
Concentration: 53.3 ppb

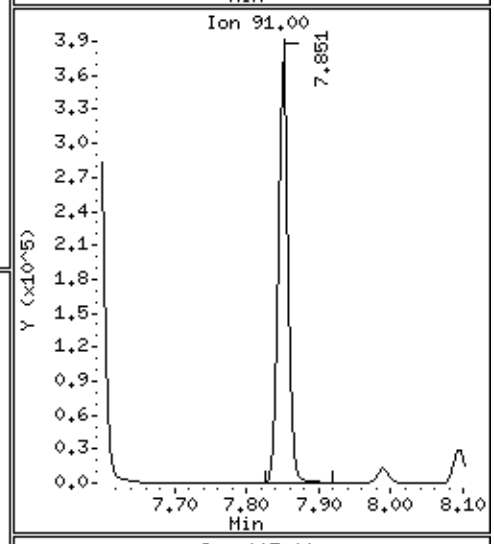


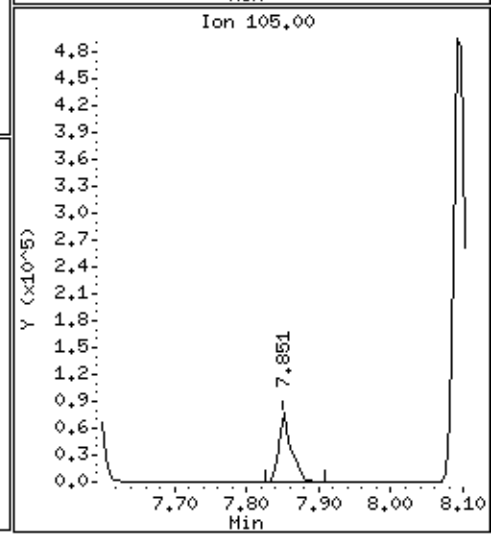












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

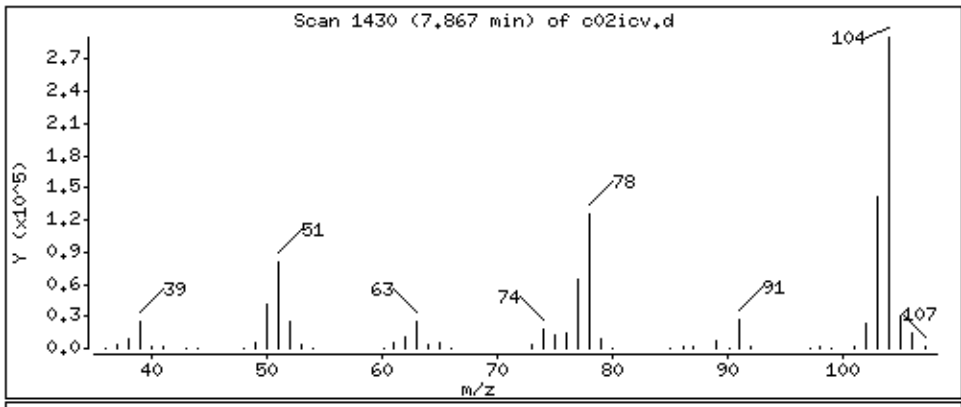
Operator: grm

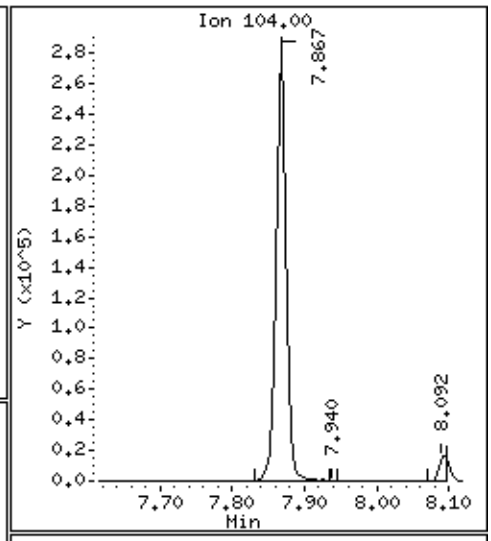
Column phase: DB-624

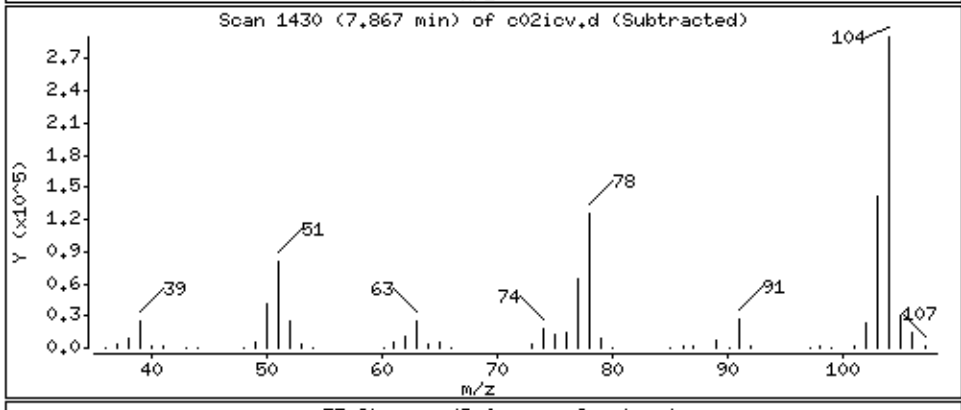
Column diameter: 0.18

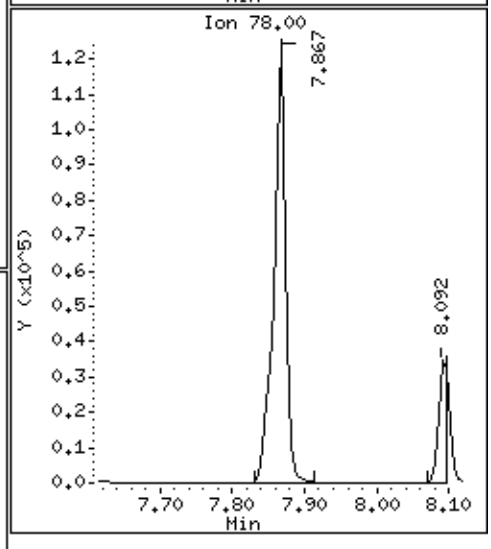
73 Styrene

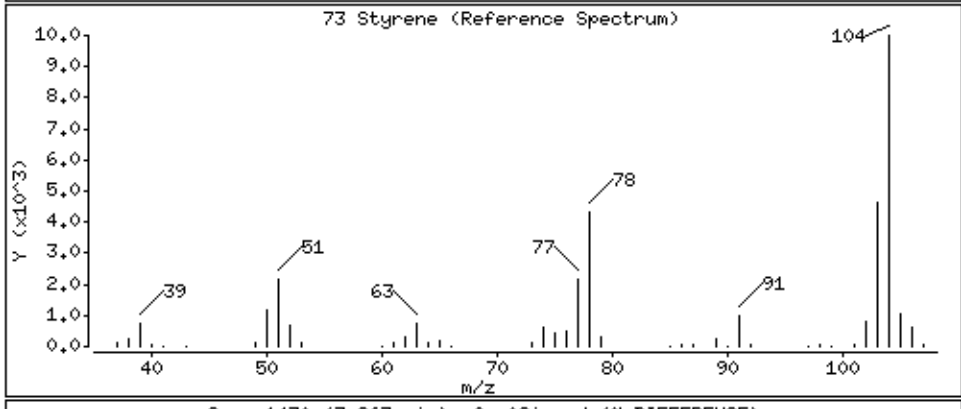
Concentration: 53.4 ppb

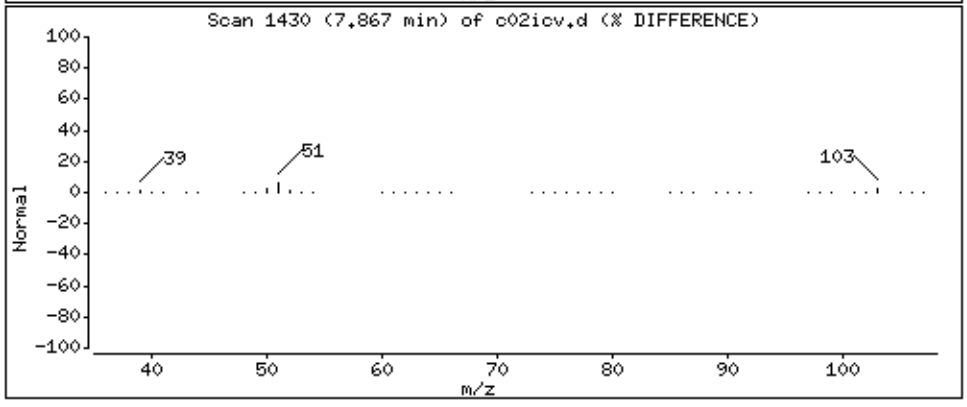












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

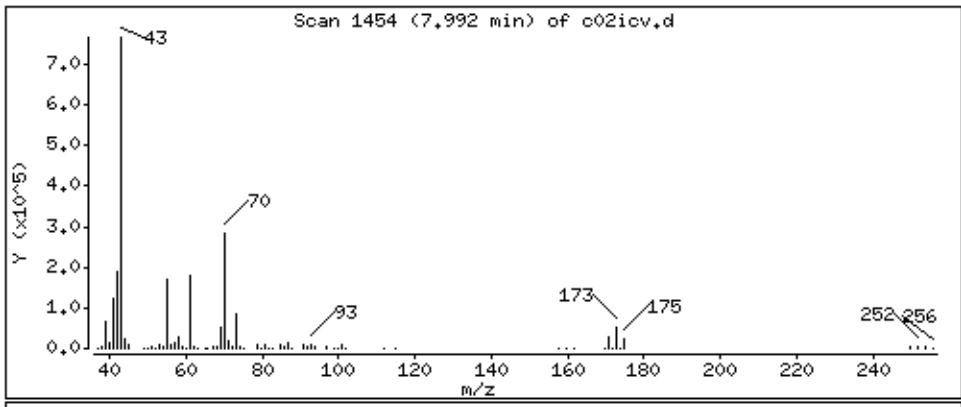
Purge Volume: 5.0

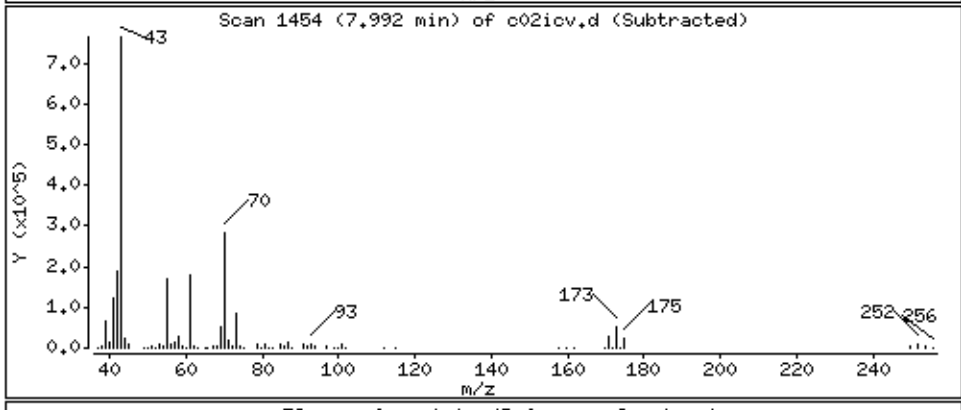
Operator: grm

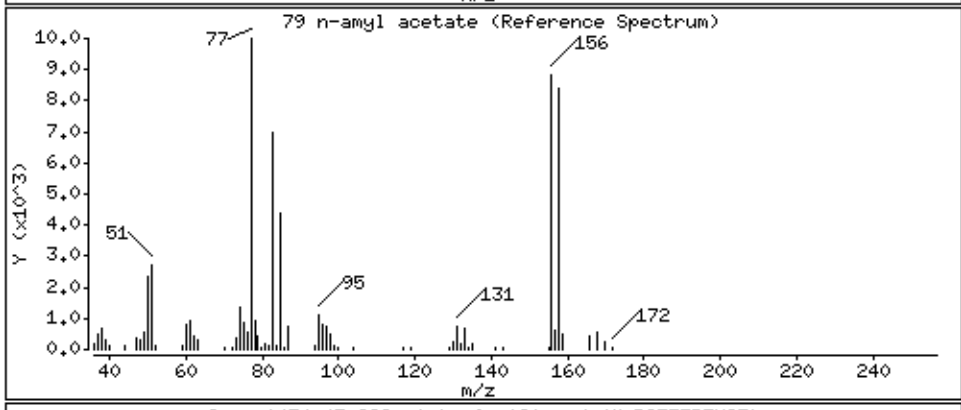
Column phase: DB-624

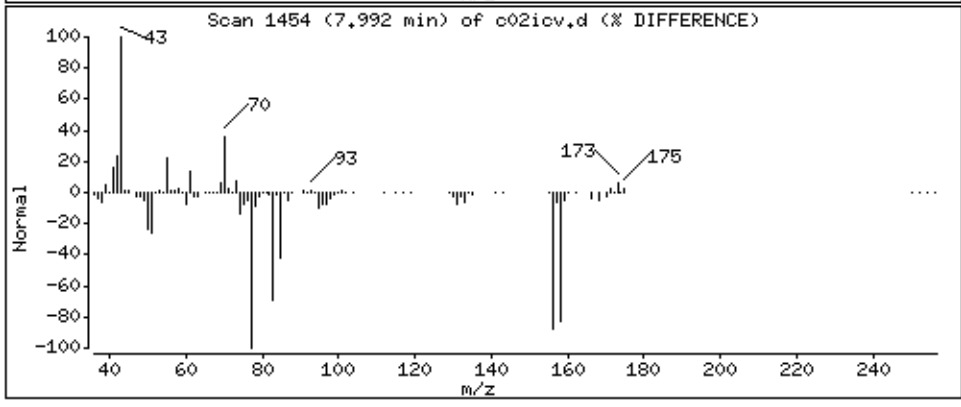
Column diameter: 0.18

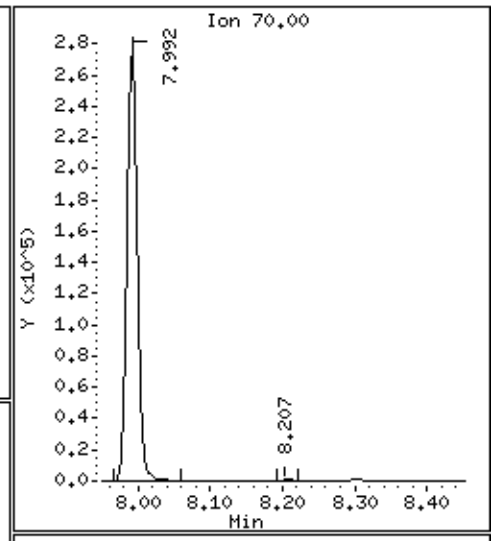
79 n-amyl acetate

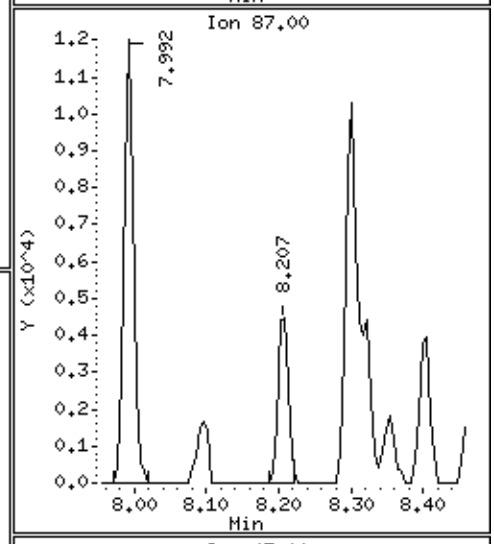


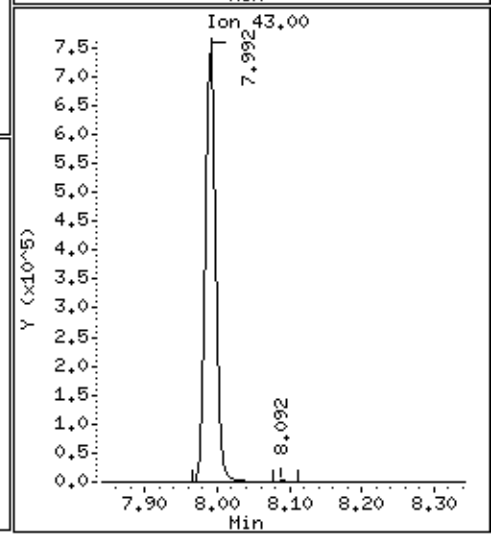












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

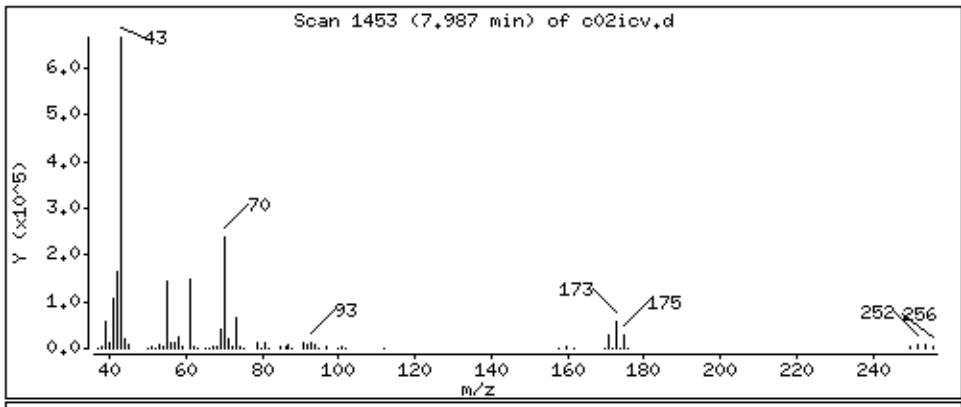
Operator: grm

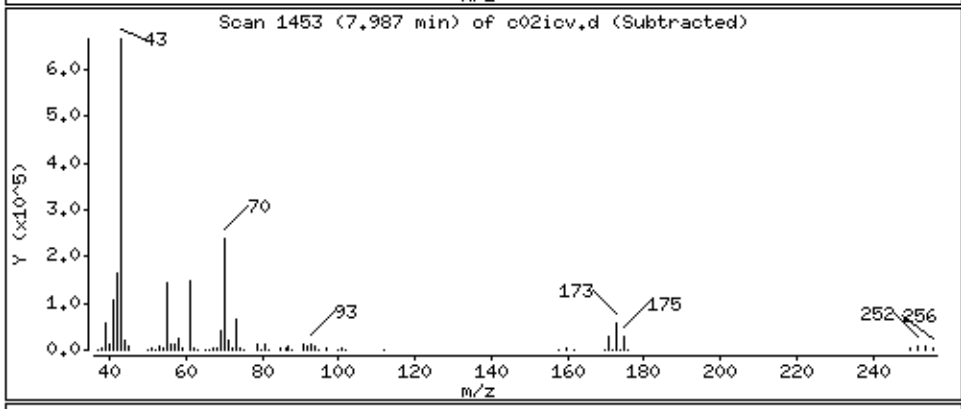
Column phase: DB-624

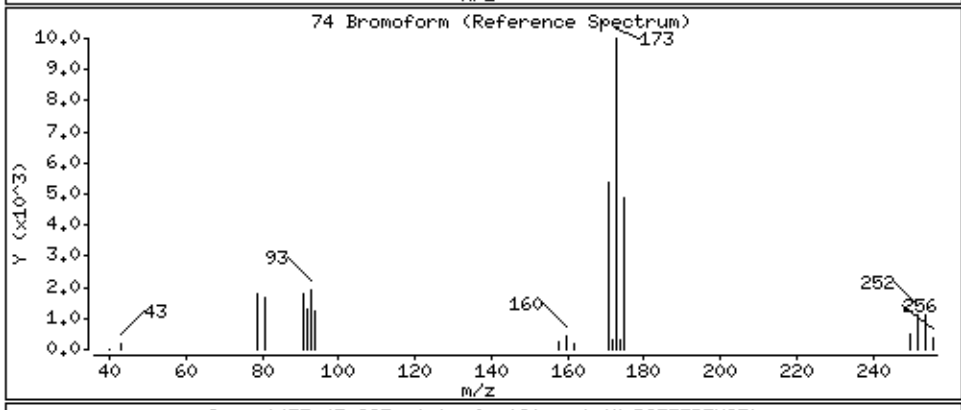
Column diameter: 0.18

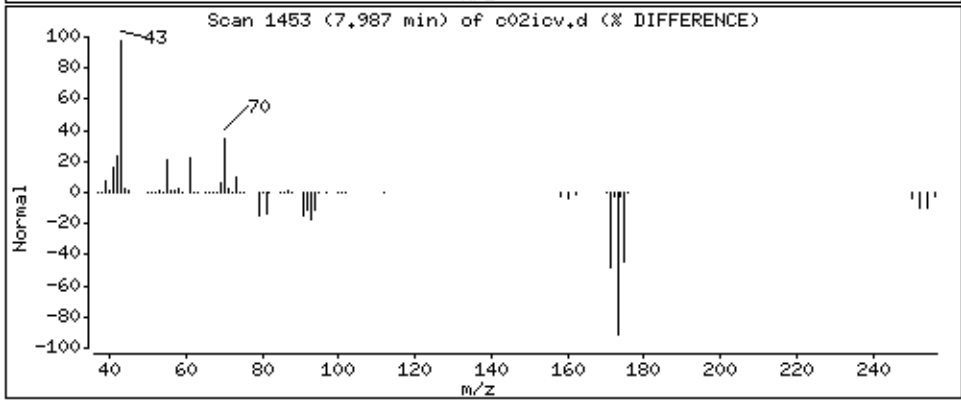
74 Bromoform

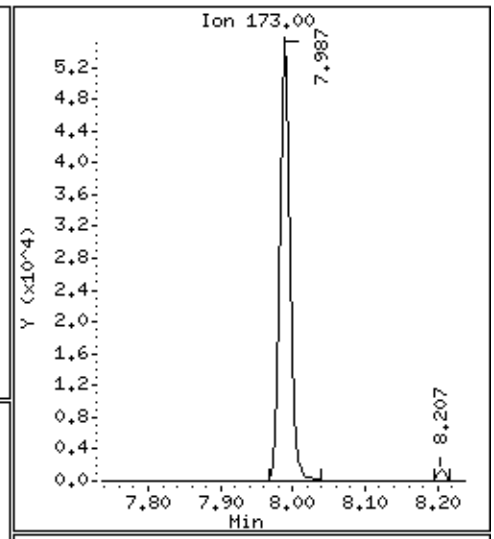
Concentration: 53.8 ppb

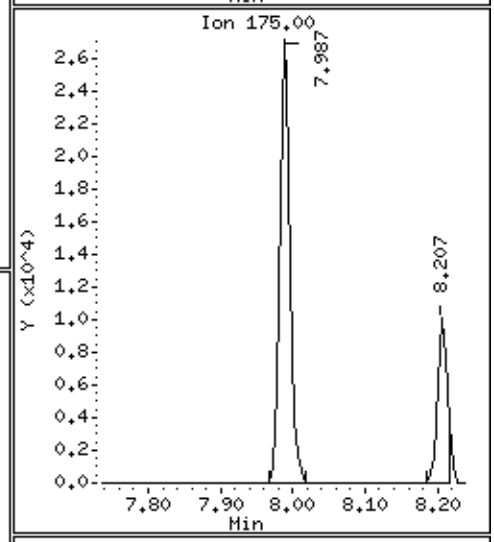


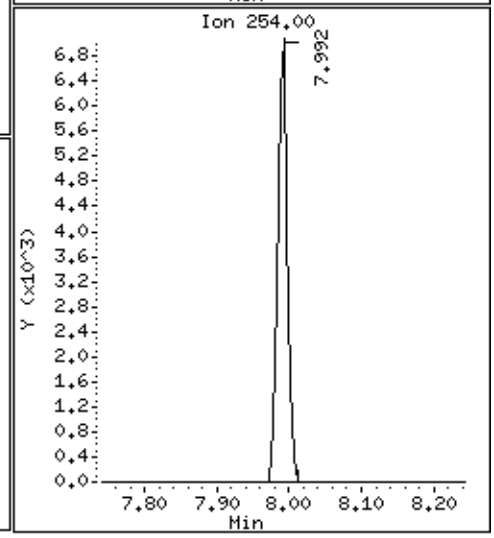












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

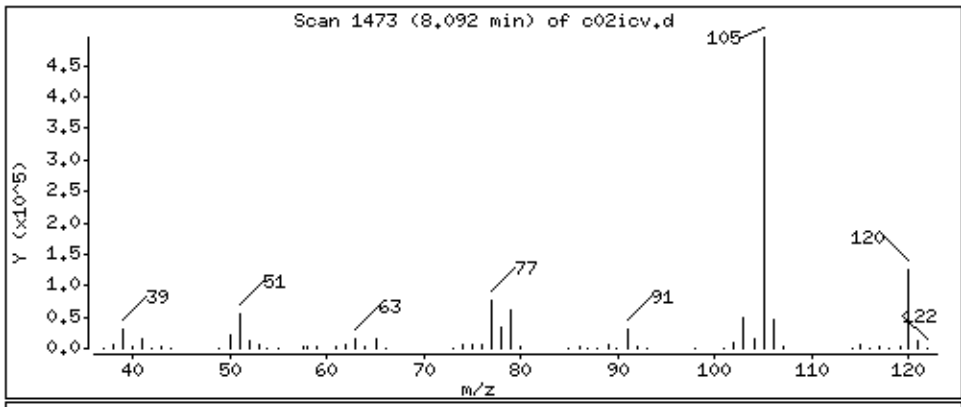
Operator: grm

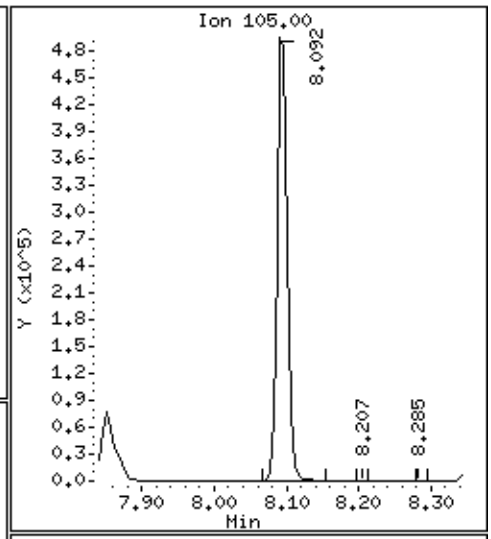
Column phase: DB-624

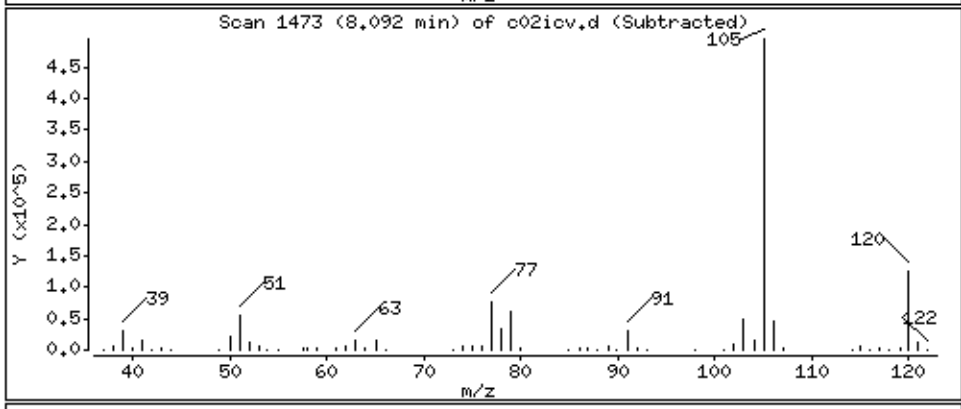
Column diameter: 0.18

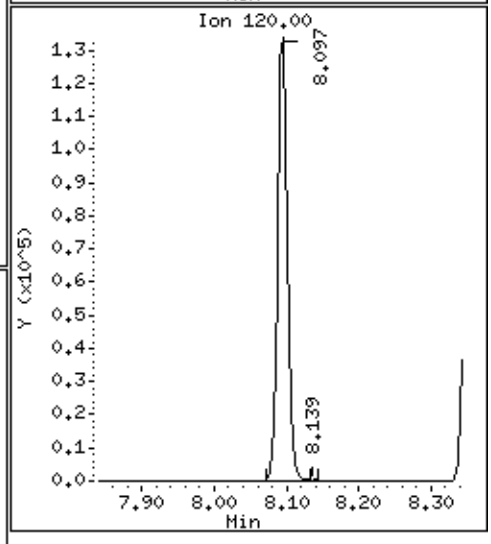
75 Isopropylbenzene

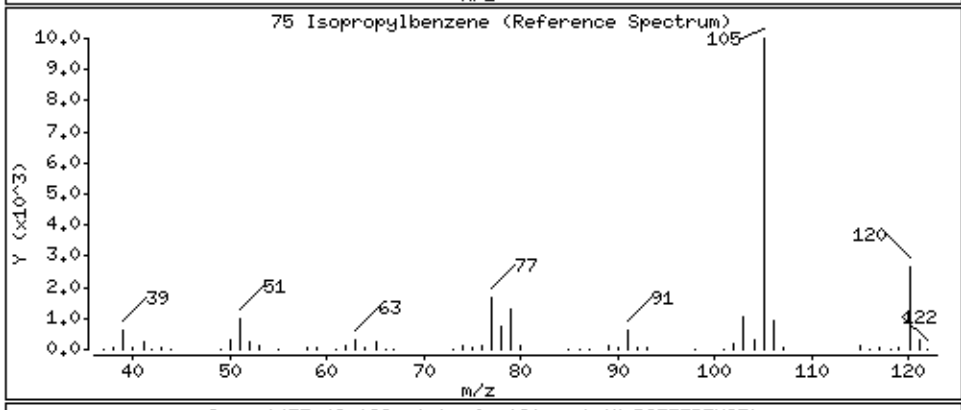
Concentration: 56.9 ppb

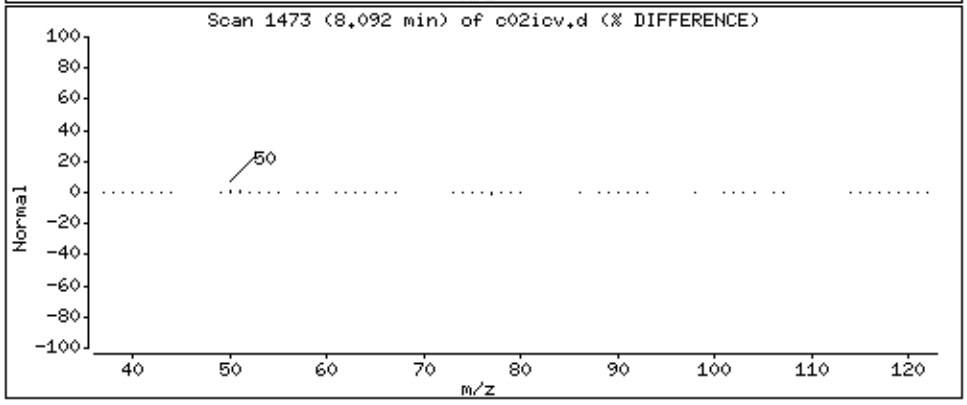












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

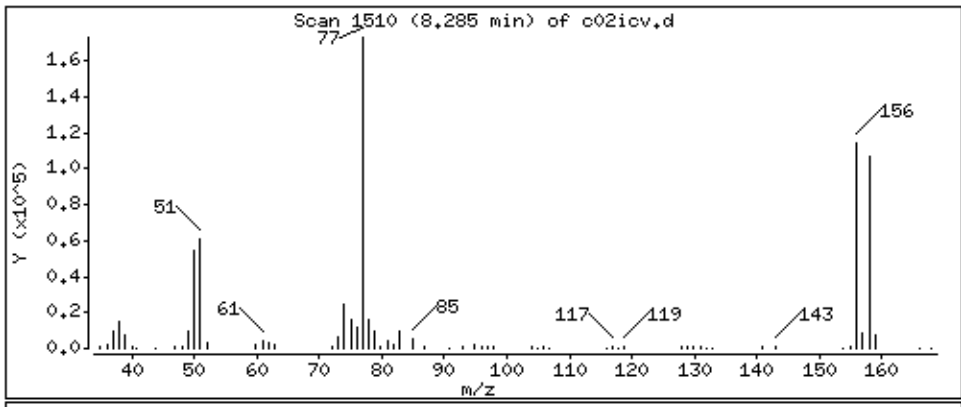
Operator: grm

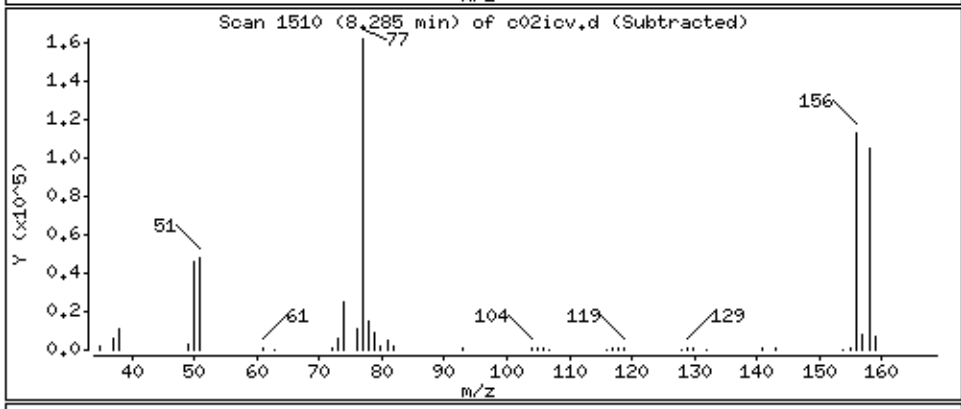
Column phase: DB-624

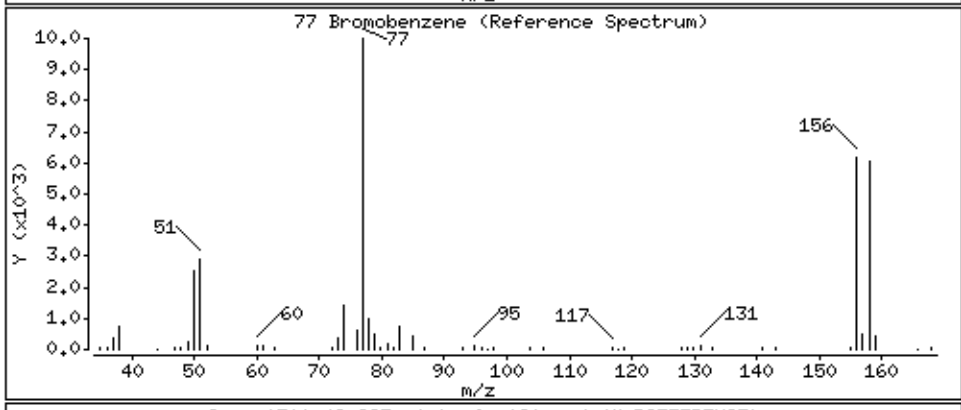
Column diameter: 0.18

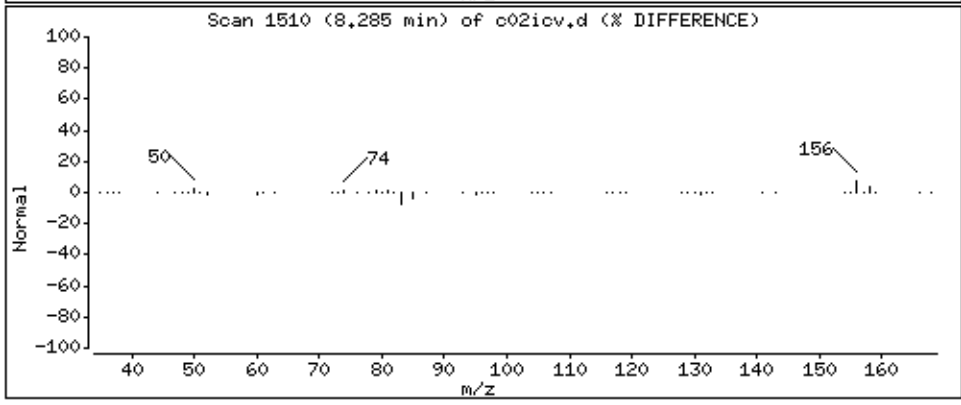
77 Bromobenzene

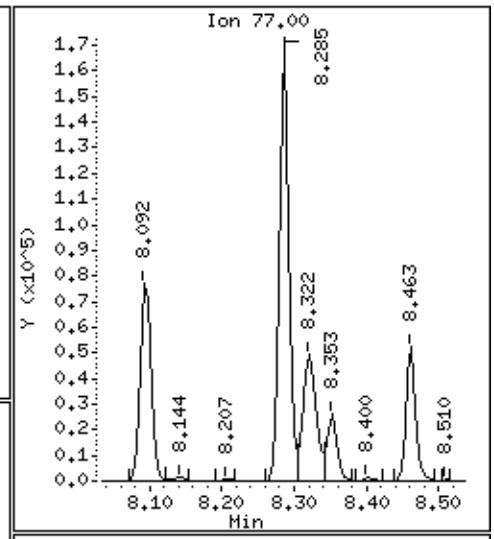
Concentration: 53.8 ppb

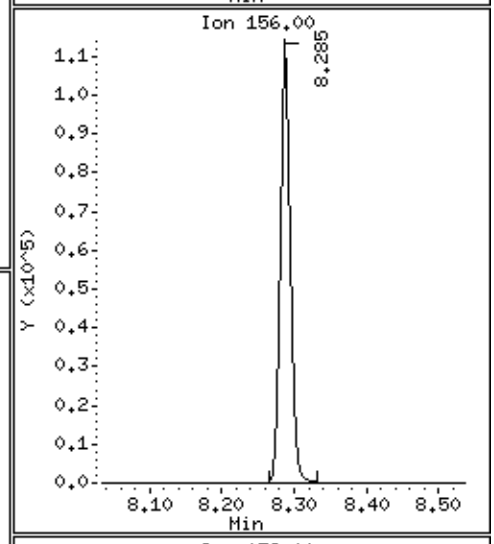


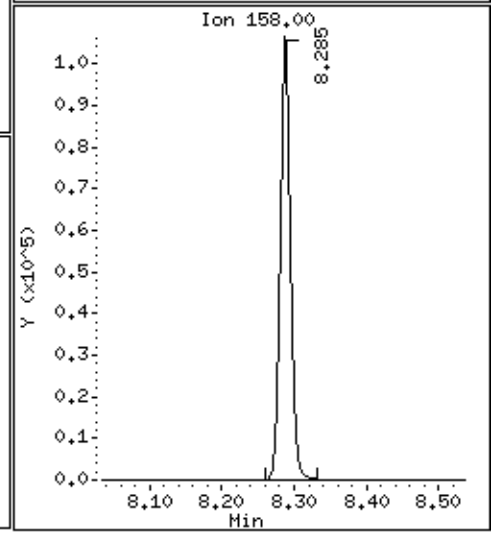












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

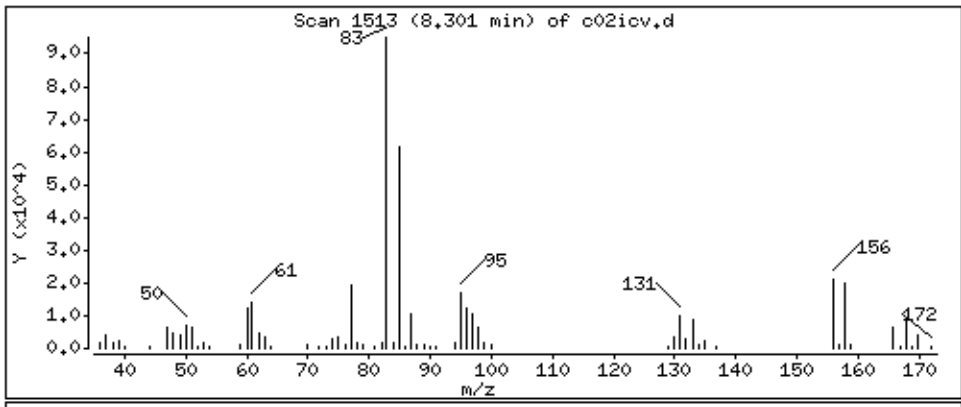
Operator: grm

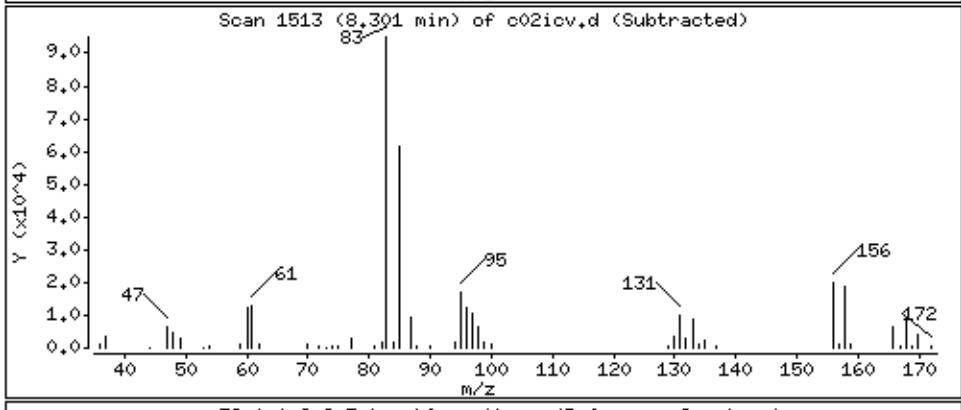
Column phase: DB-624

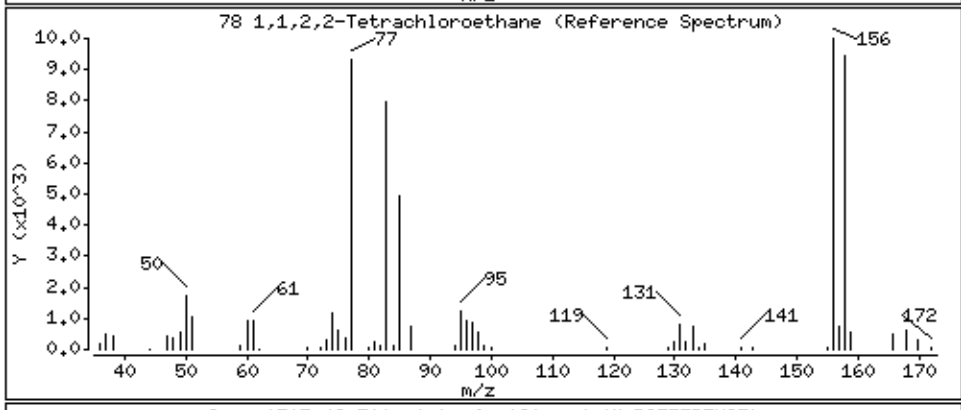
Column diameter: 0.18

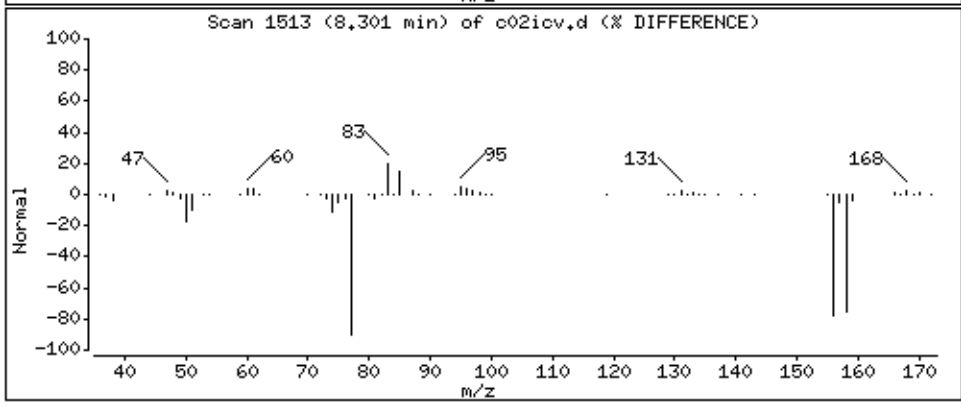
78 1,1,2,2-Tetrachloroethane

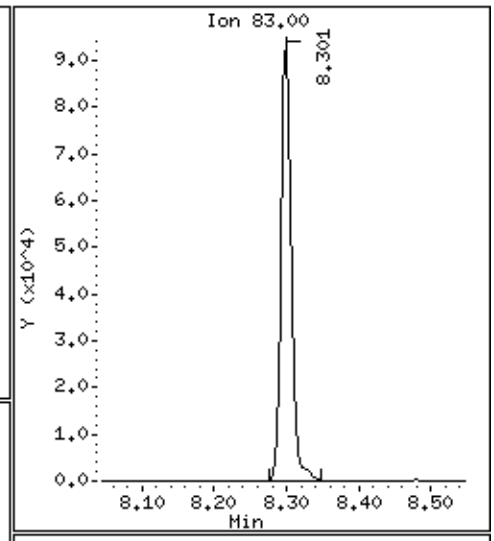
Concentration: 55.0 ppb

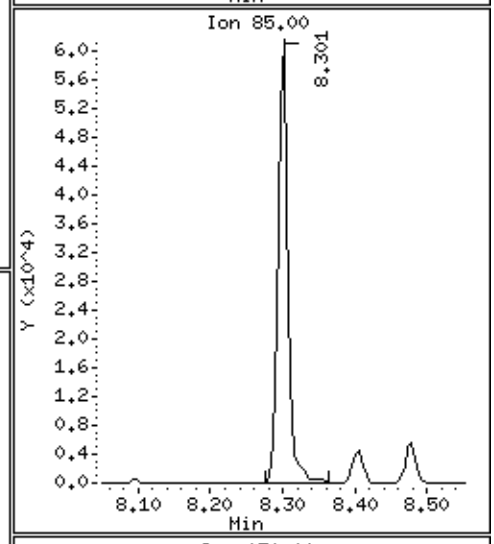


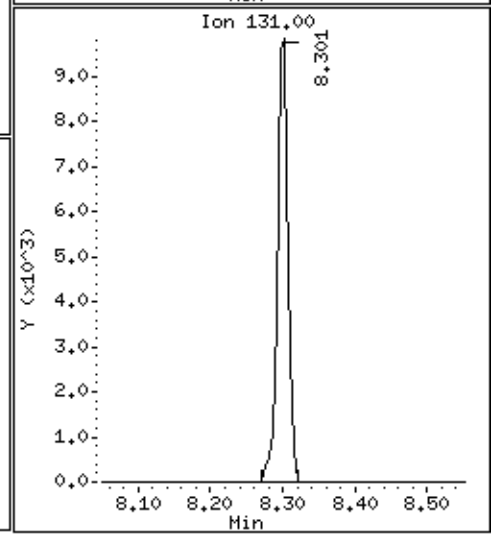












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

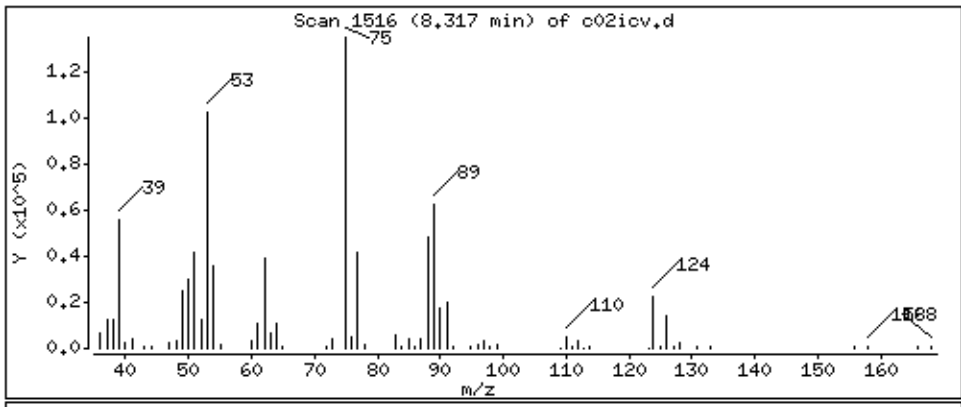
Operator: grm

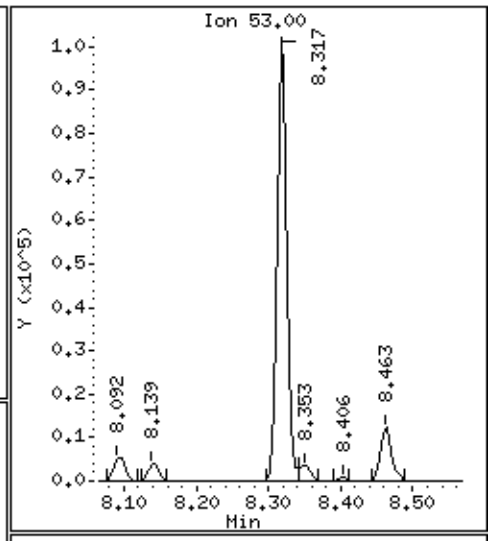
Column phase: DB-624

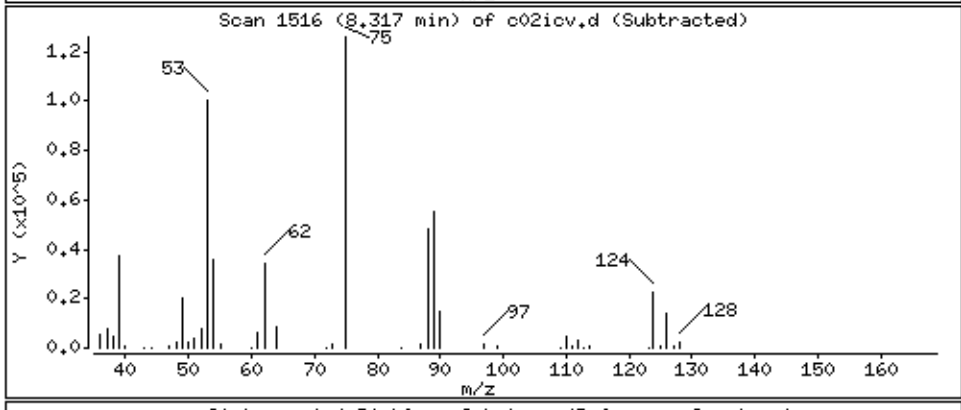
Column diameter: 0.18

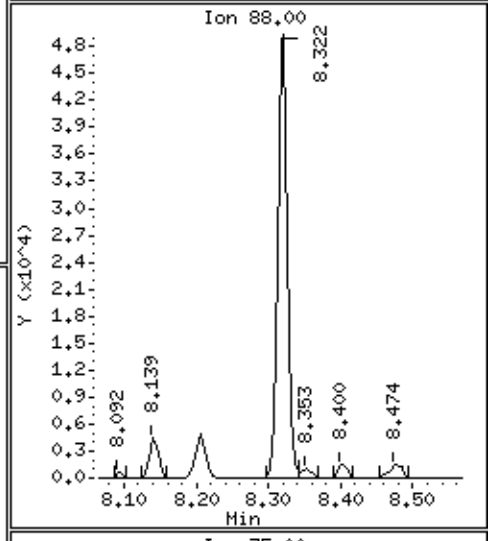
80 trans-1,4-Dichloro-2-butene

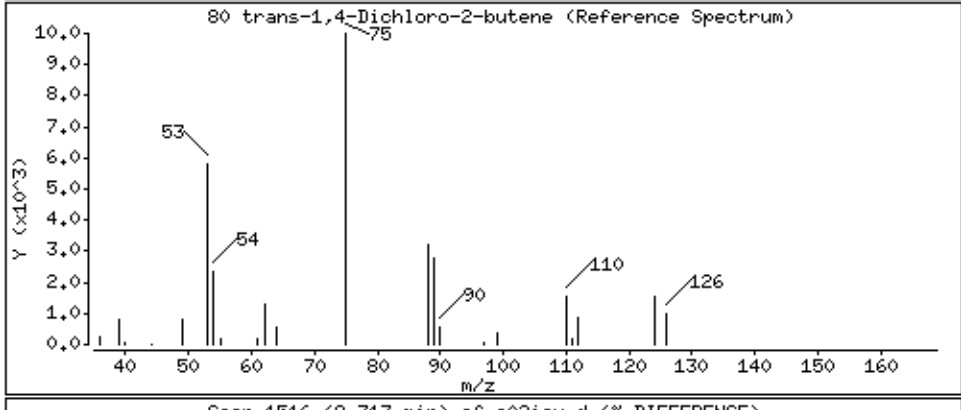
Concentration: 220 ppb

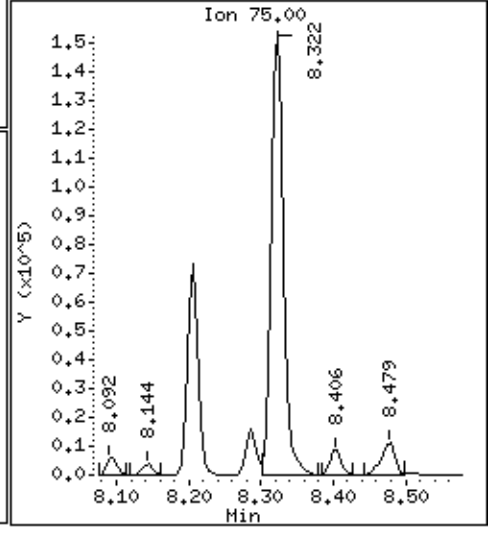


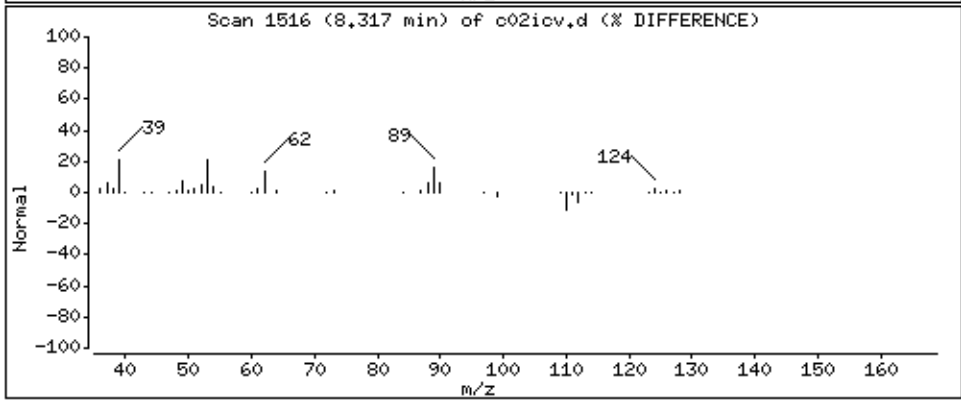












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

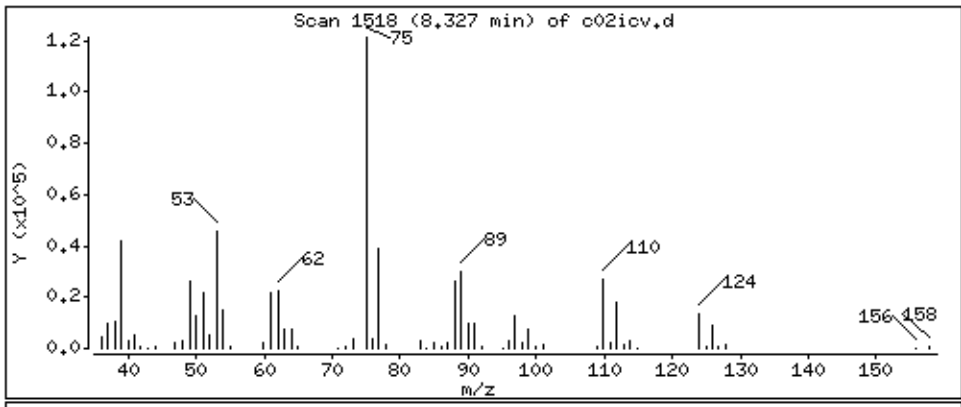
Operator: grm

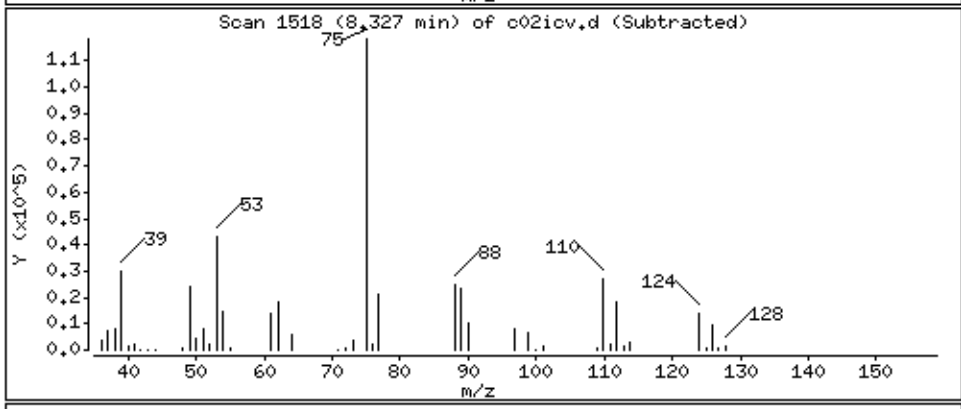
Column phase: DB-624

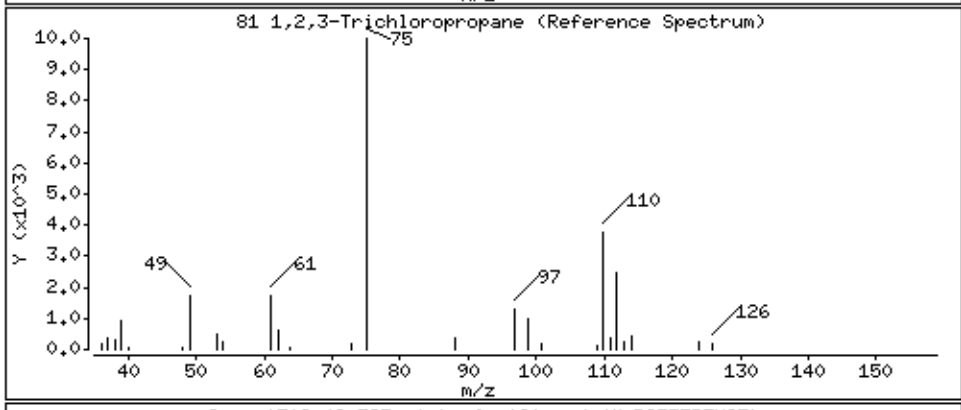
Column diameter: 0.18

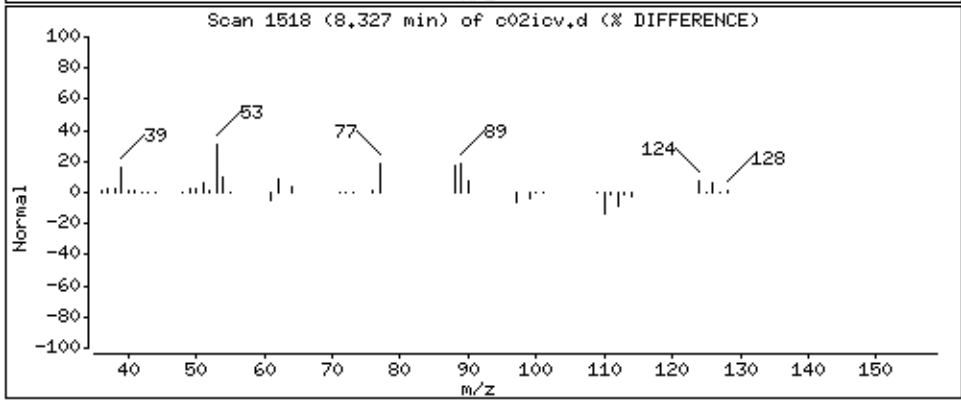
81 1,2,3-Trichloropropane

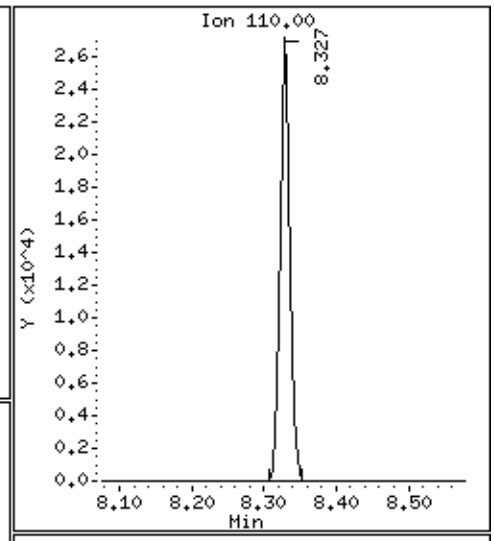
Concentration: 54.1 ppb

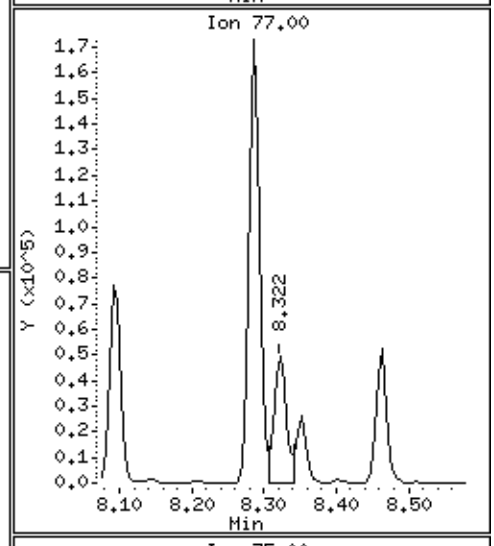


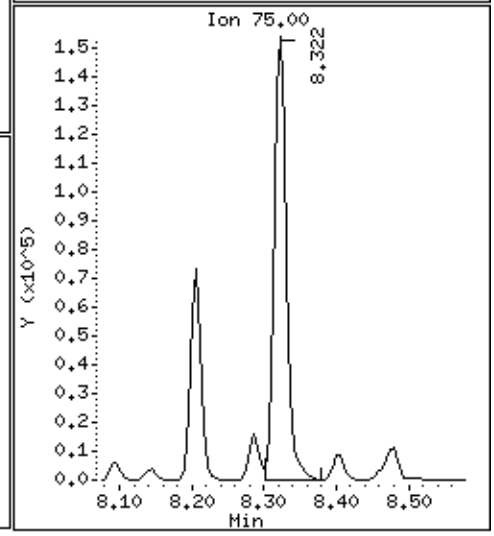












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

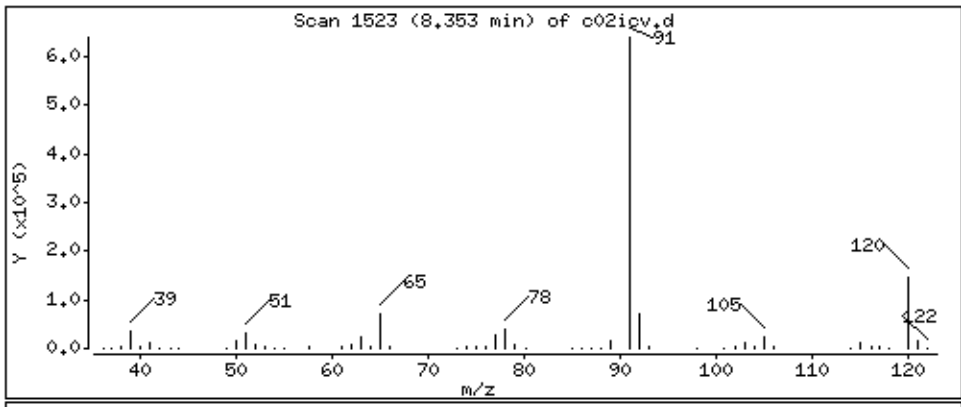
Operator: grm

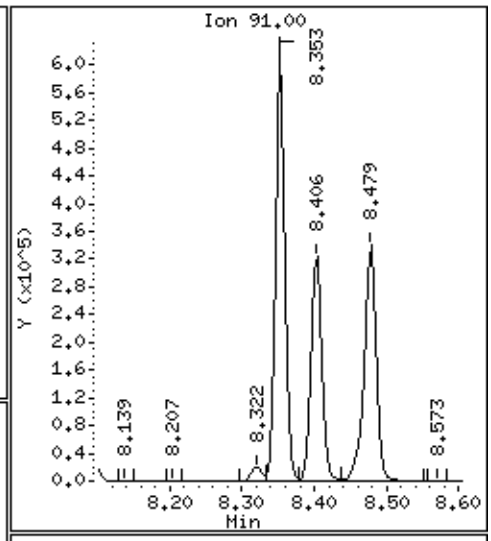
Column phase: DB-624

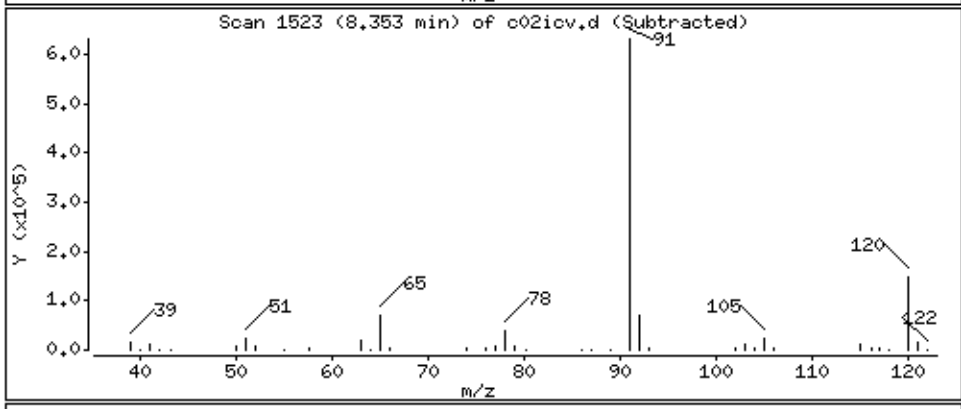
Column diameter: 0.18

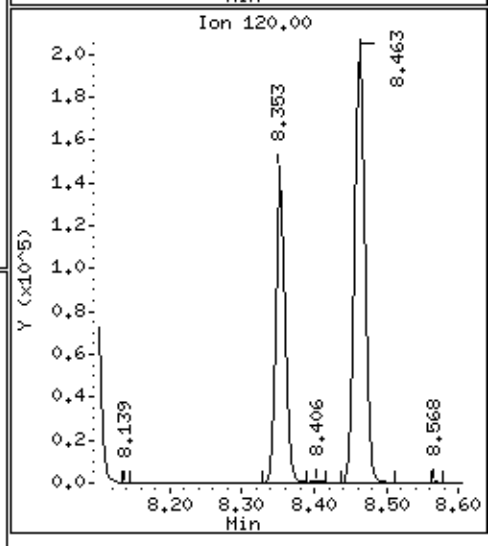
82 n-Propylbenzene

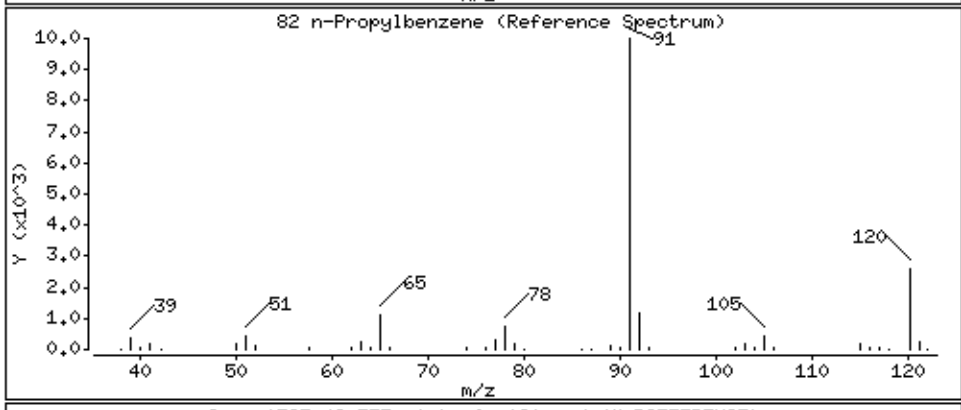
Concentration: 54.7 ppb

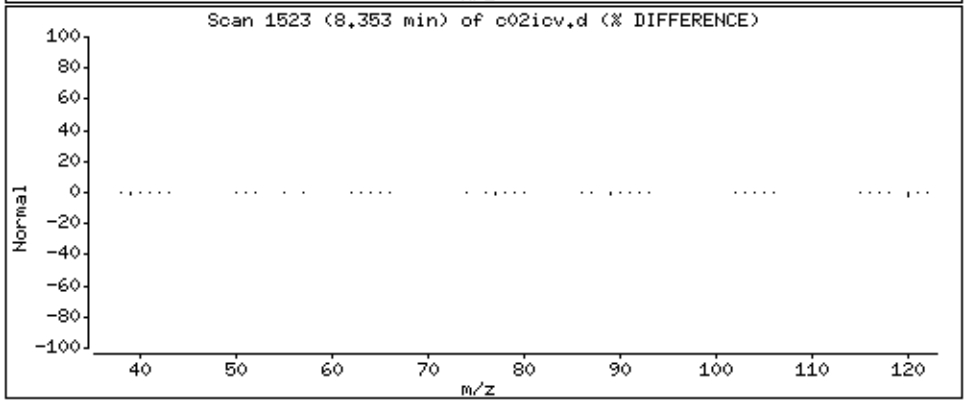












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

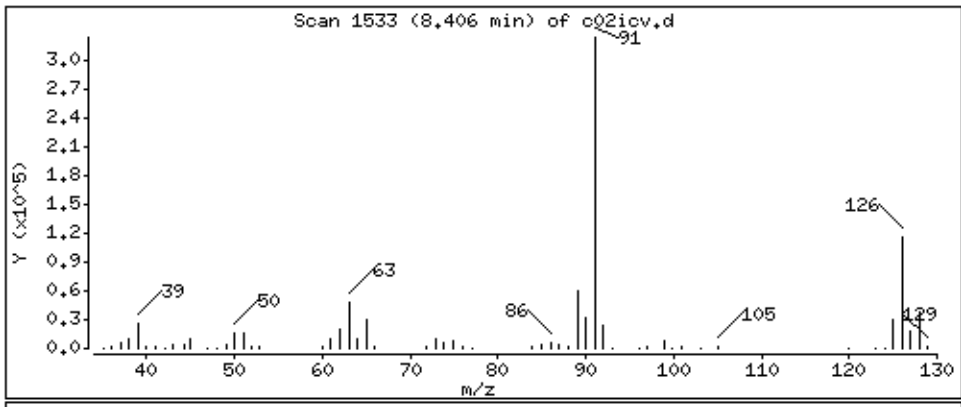
Operator: grm

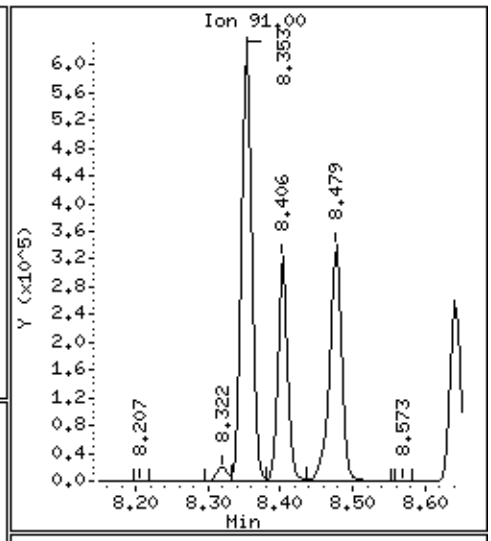
Column phase: DB-624

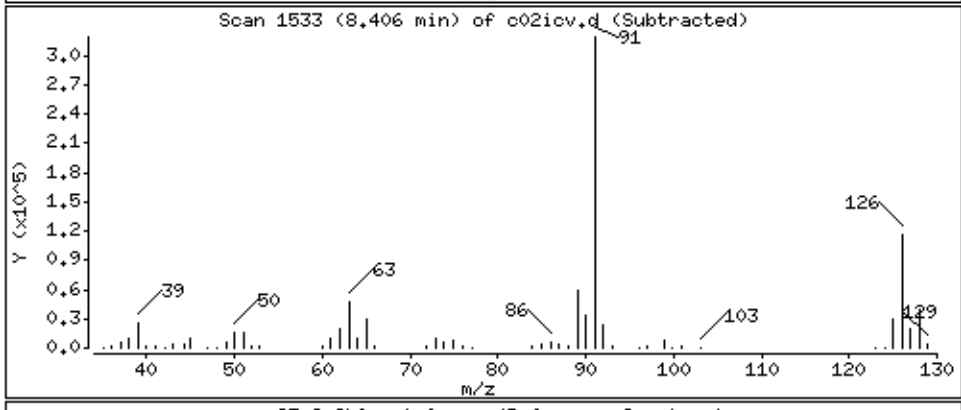
Column diameter: 0.18

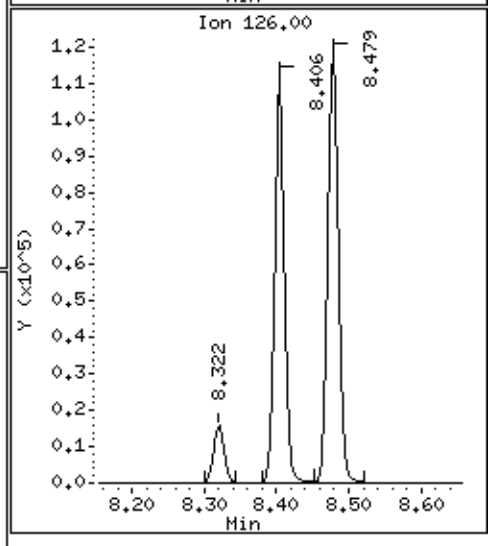
83 2-Chlorotoluene

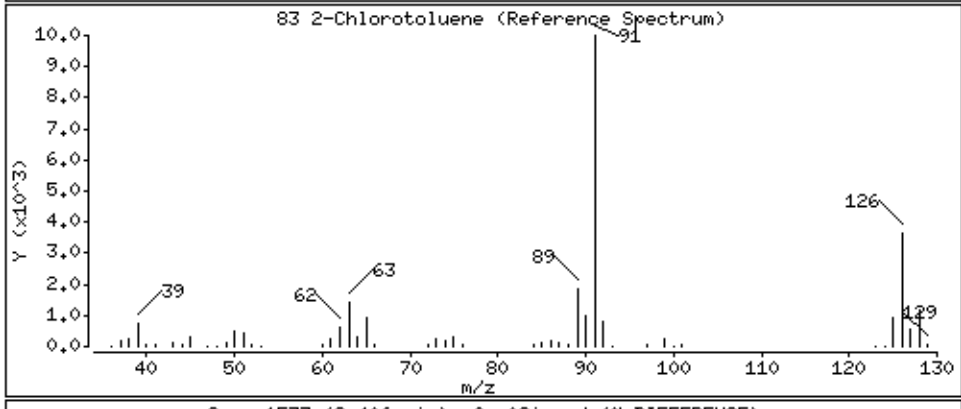
Concentration: 51.5 ppb

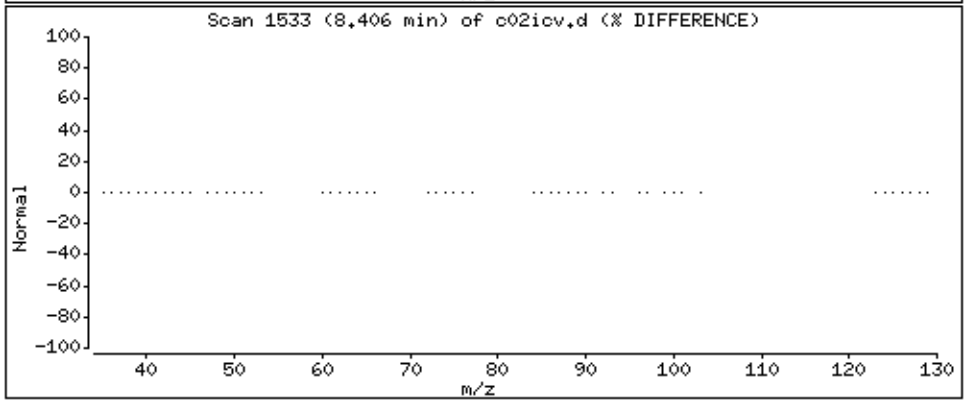












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

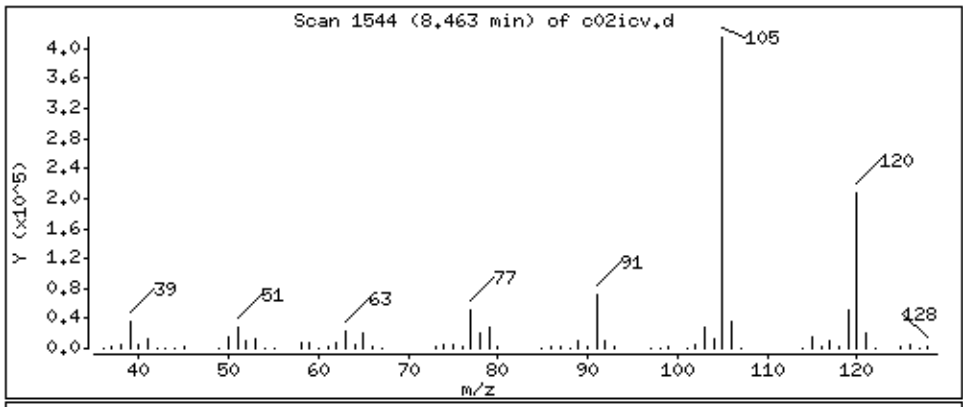
Operator: grm

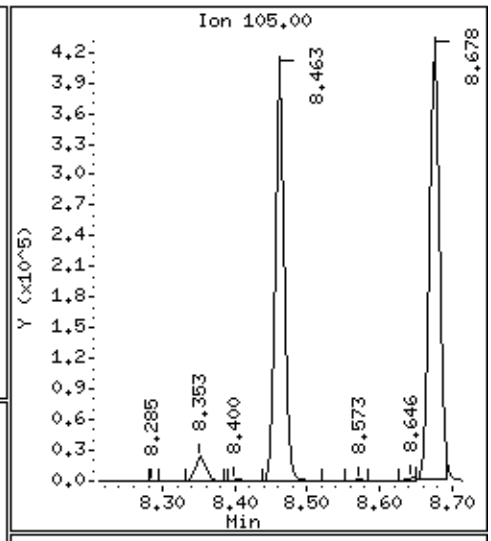
Column phase: DB-624

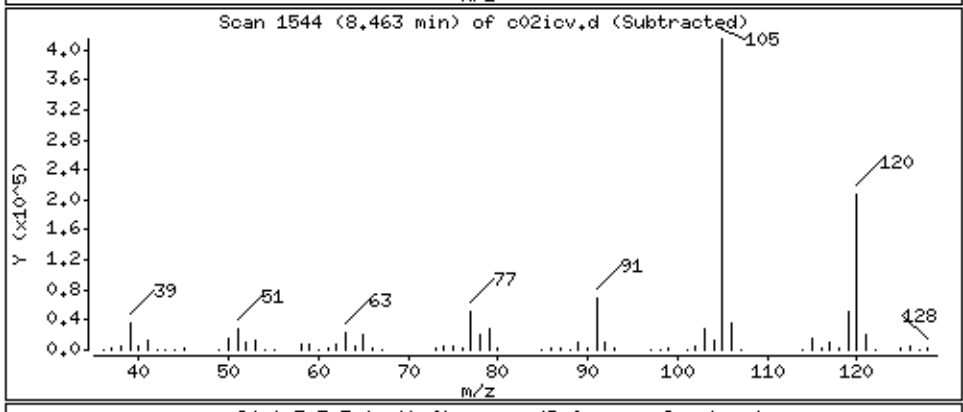
Column diameter: 0.18

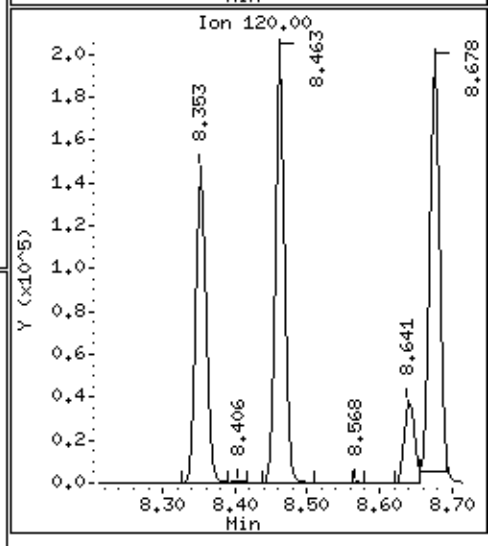
84 1,3,5-Trimethylbenzene

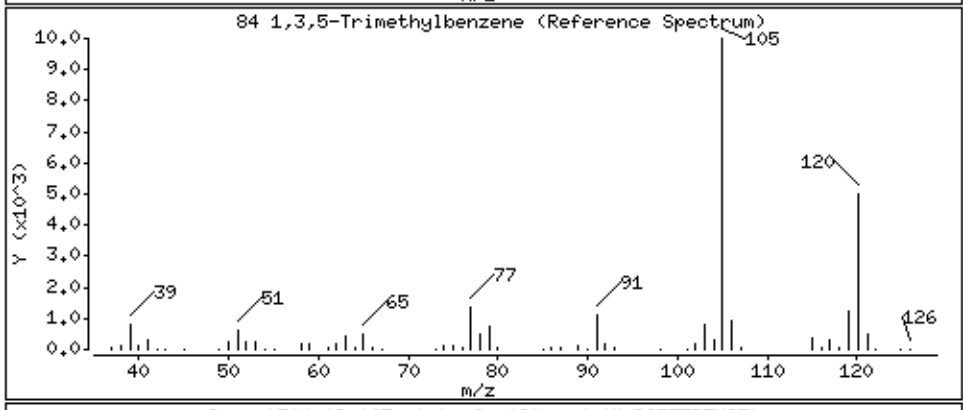
Concentration: 50.8 ppb

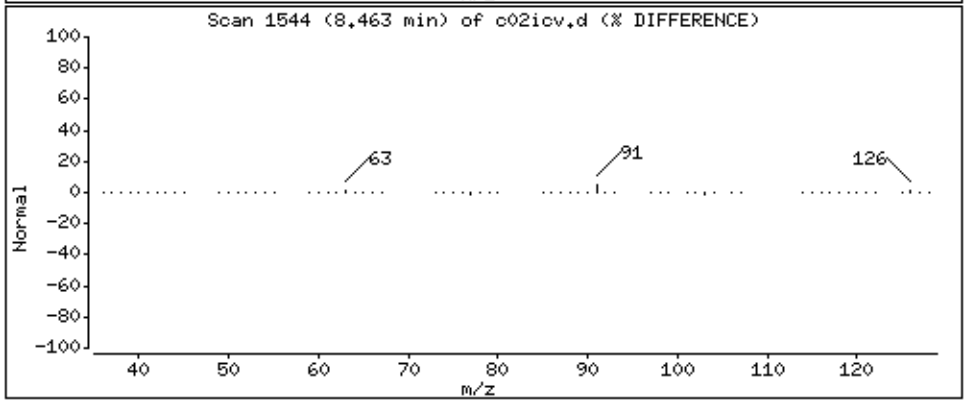












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

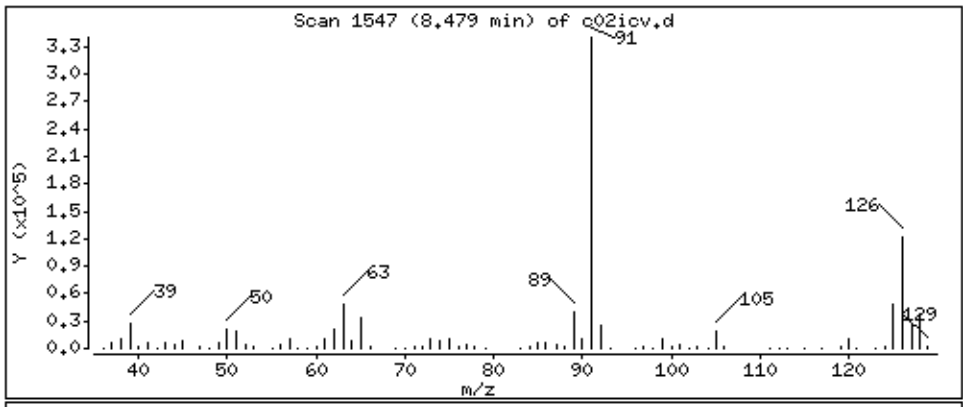
Operator: grm

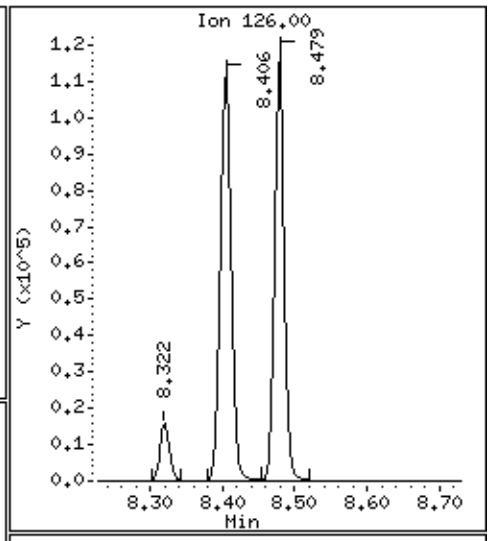
Column phase: DB-624

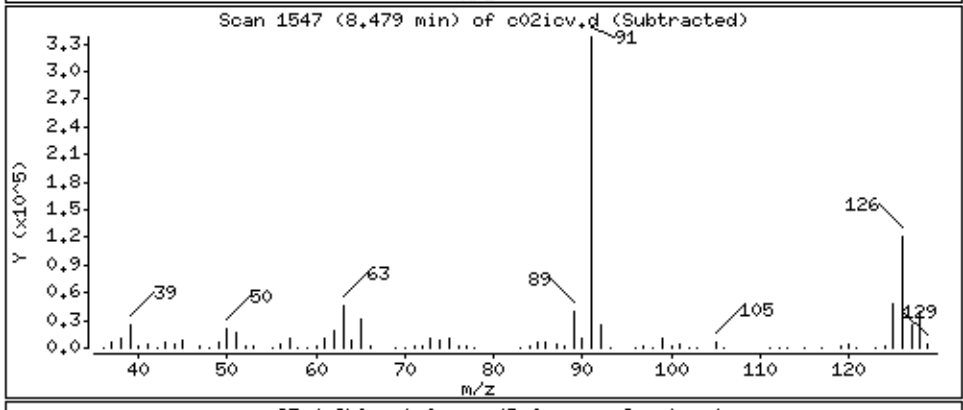
Column diameter: 0.18

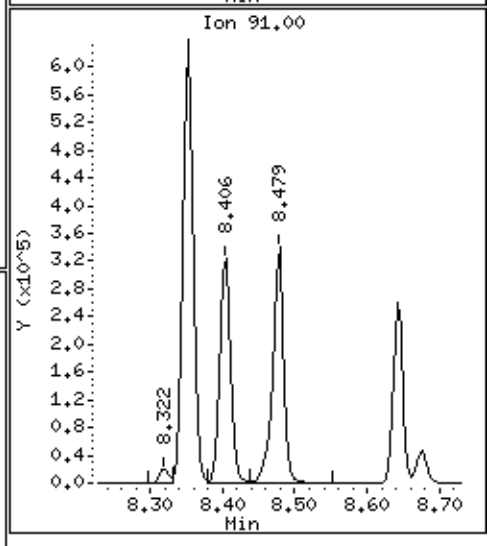
85 4-Chlorotoluene

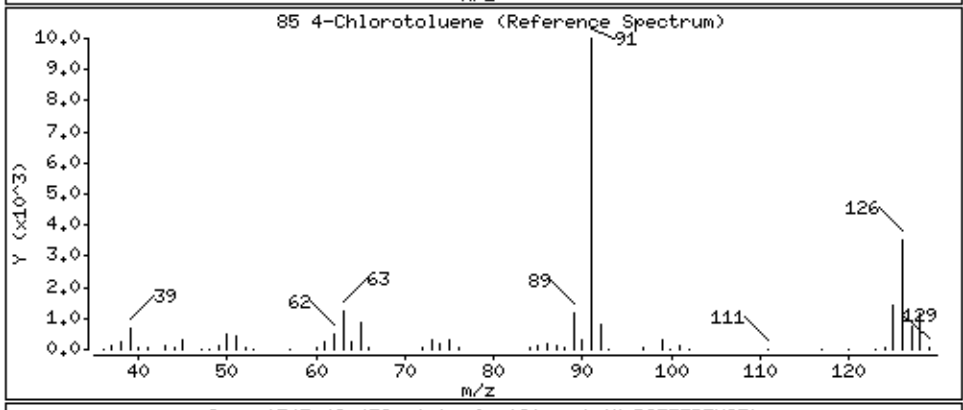
Concentration: 50.2 ppb

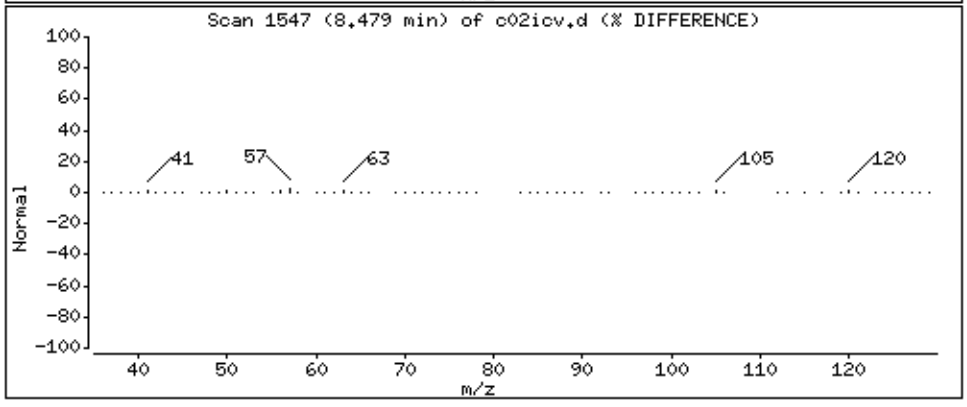












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

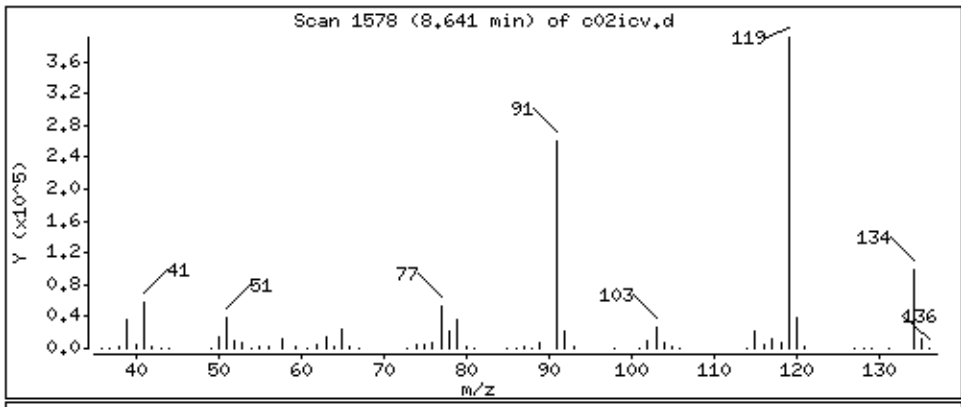
Operator: grm

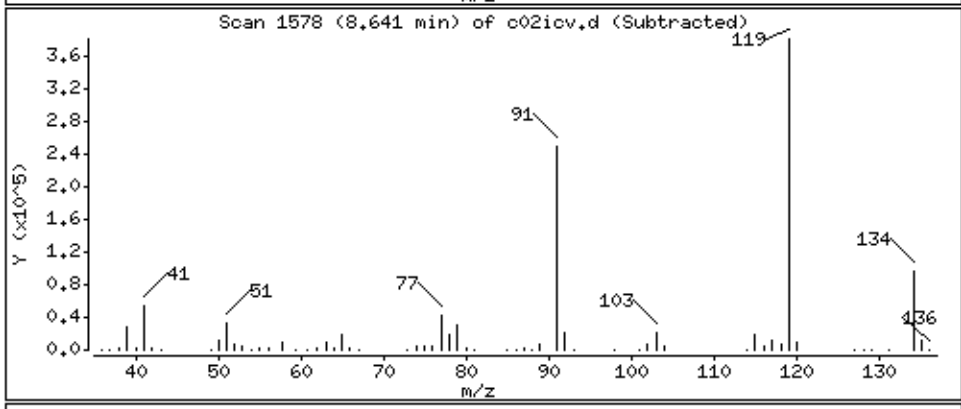
Column phase: DB-624

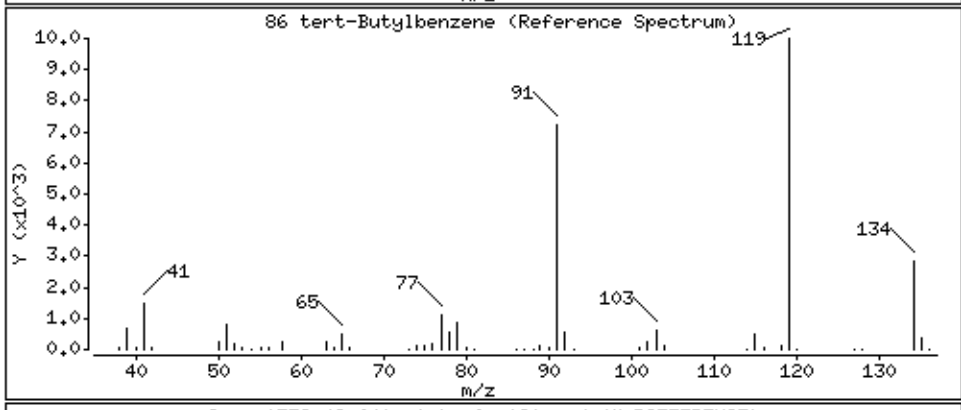
Column diameter: 0.18

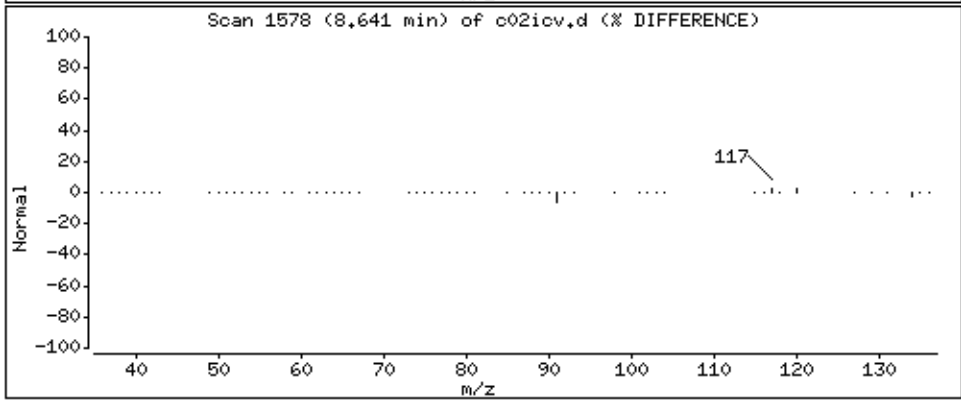
86 tert-Butylbenzene

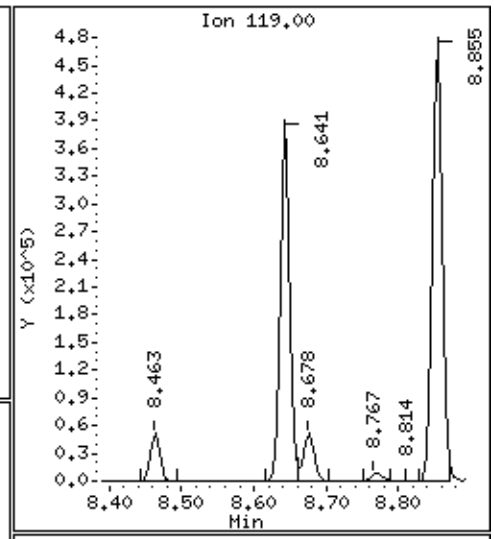
Concentration: 53.0 ppb

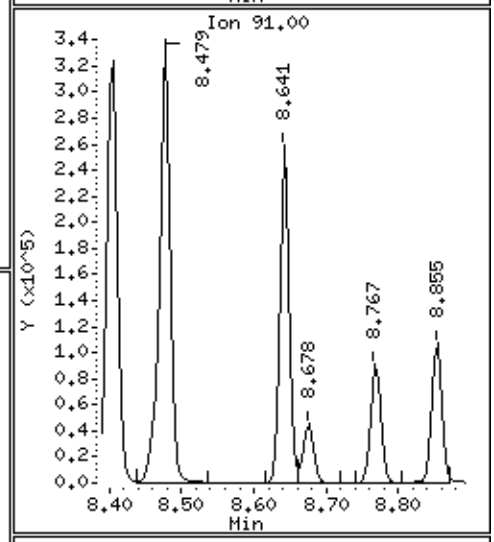


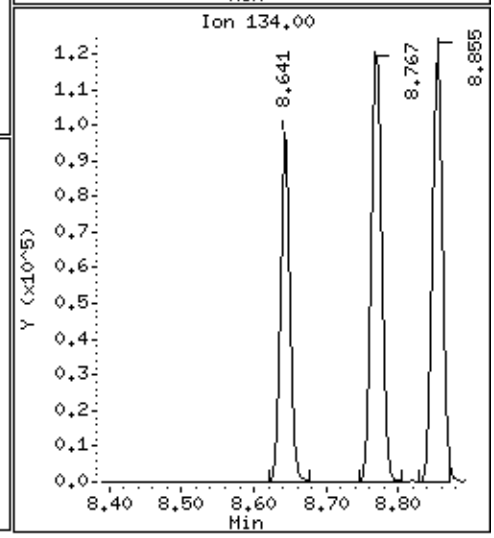












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

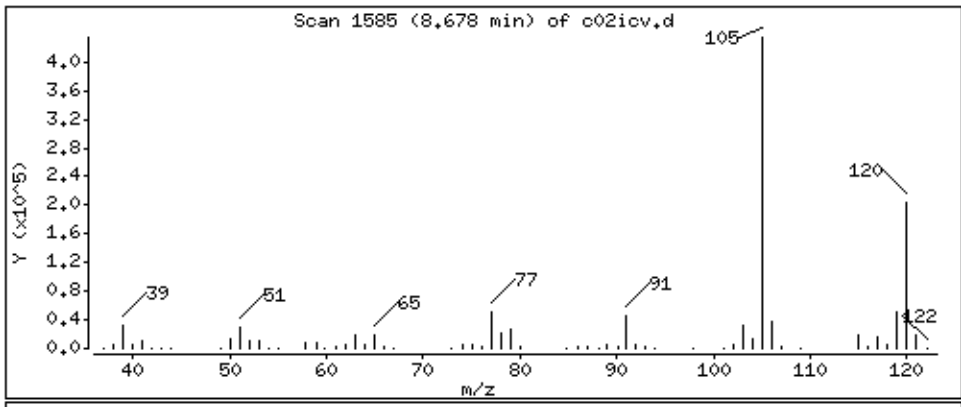
Operator: grm

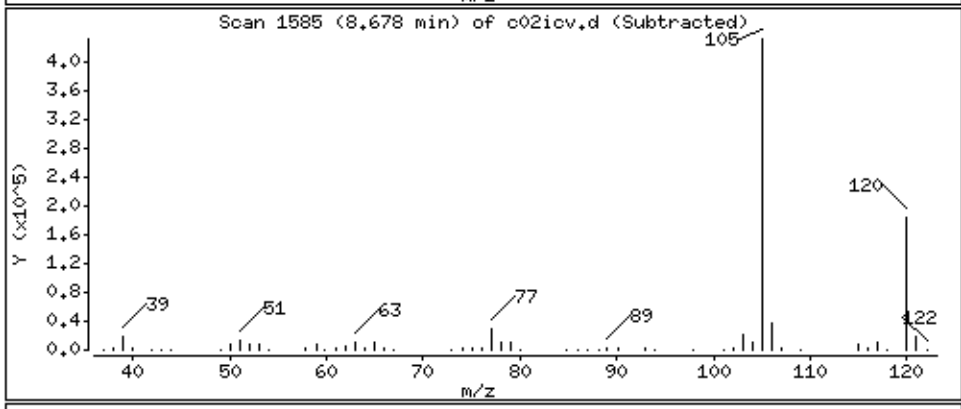
Column phase: DB-624

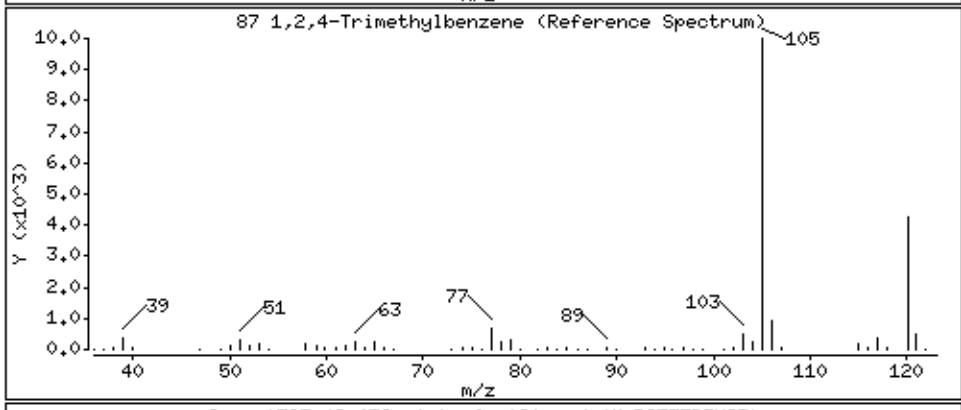
Column diameter: 0.18

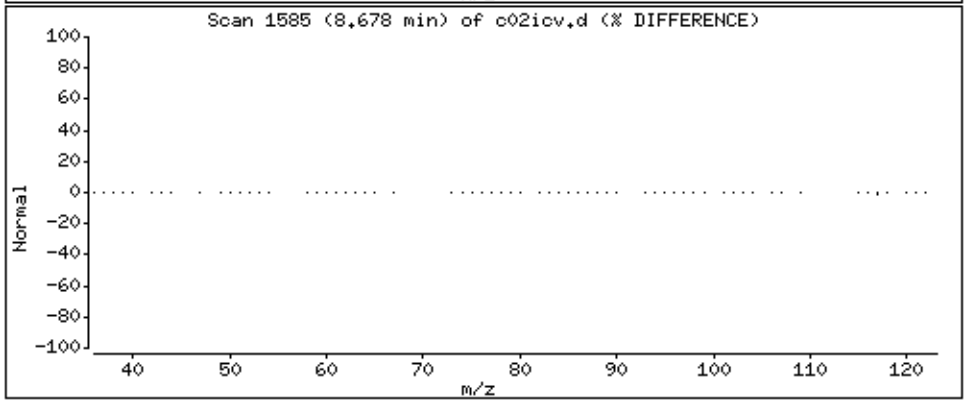
87 1,2,4-Trimethylbenzene

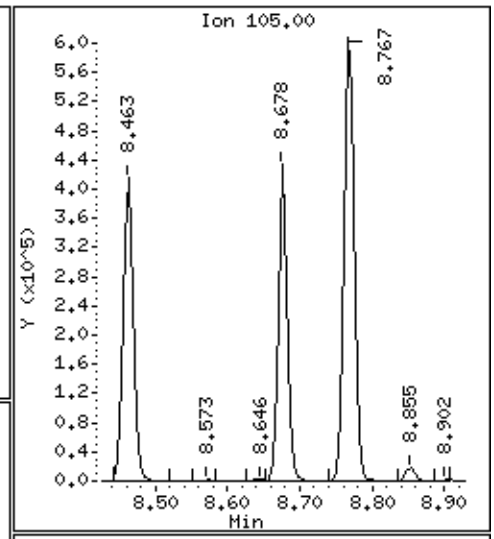
Concentration: 50.8 ppb

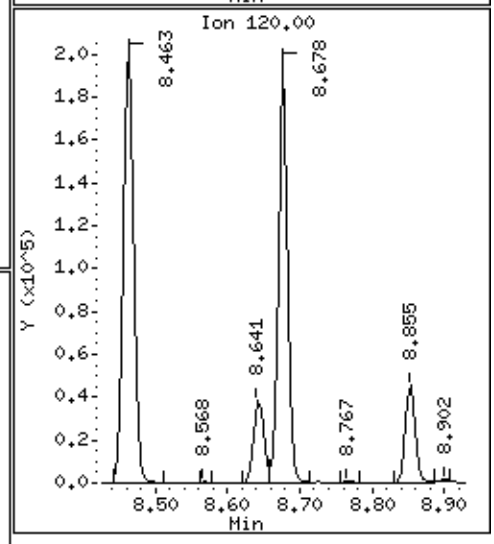












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

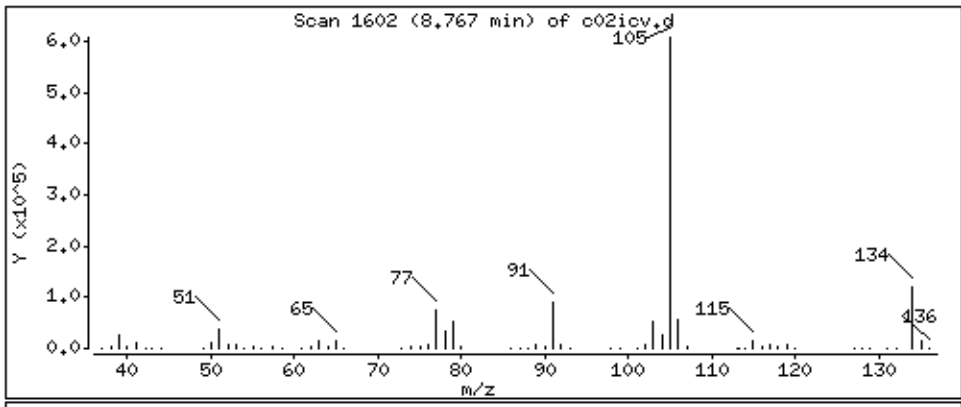
Operator: grm

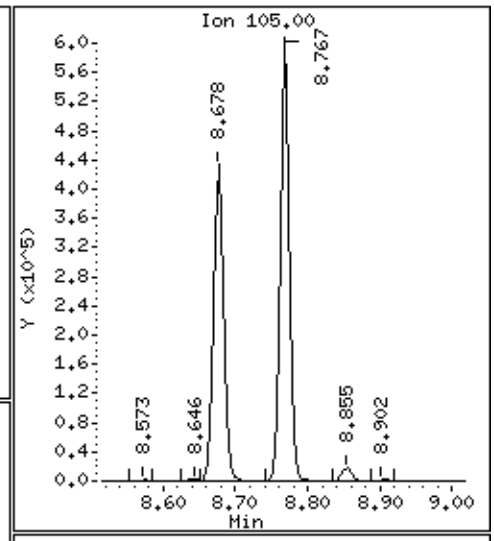
Column phase: DB-624

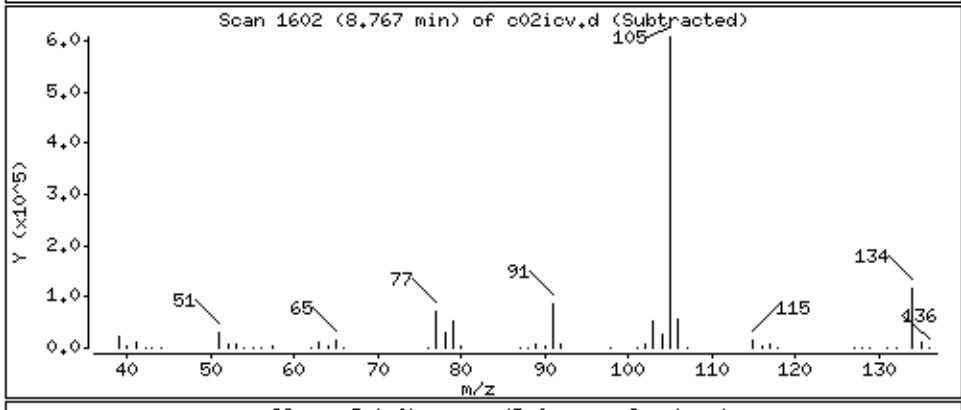
Column diameter: 0.18

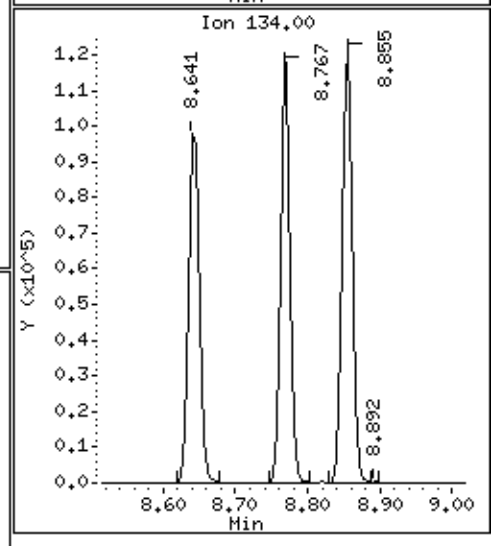
88 sec-Butylbenzene

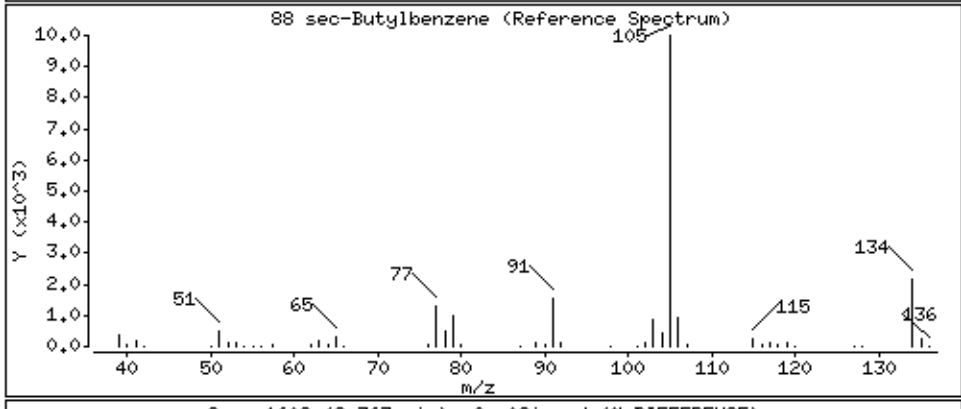
Concentration: 57.2 ppb

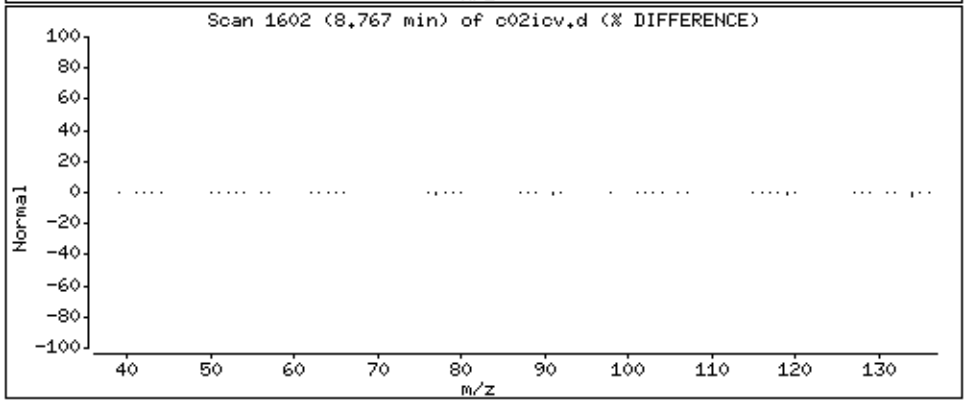












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

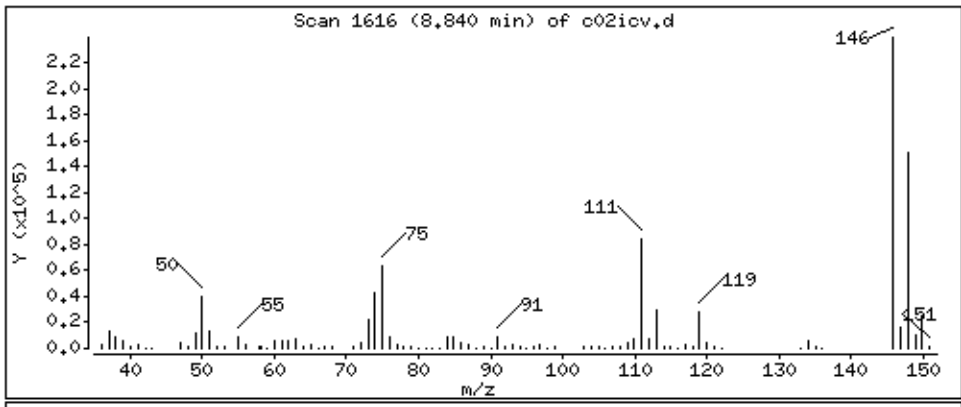
Operator: grm

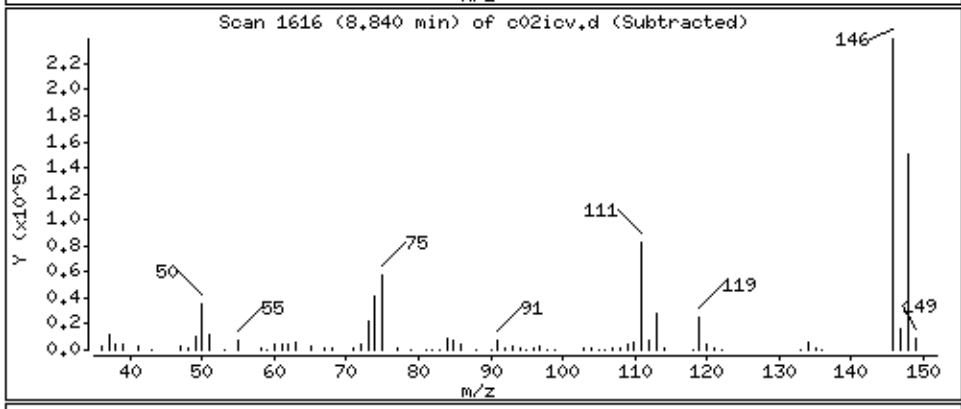
Column phase: DB-624

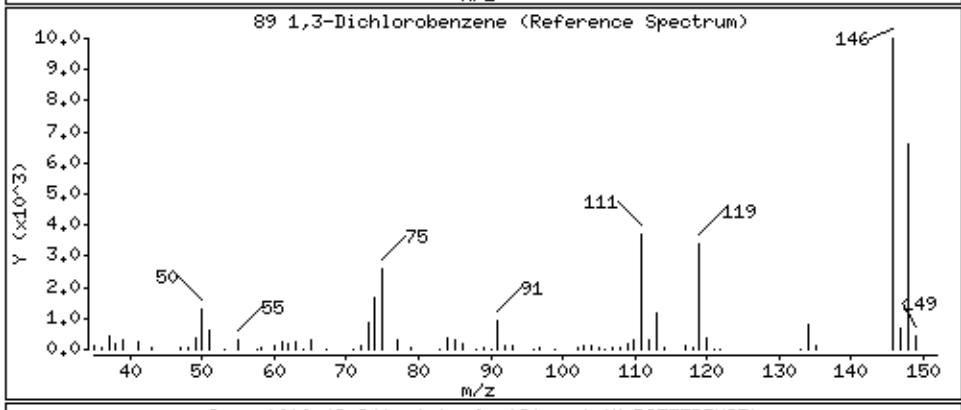
Column diameter: 0.18

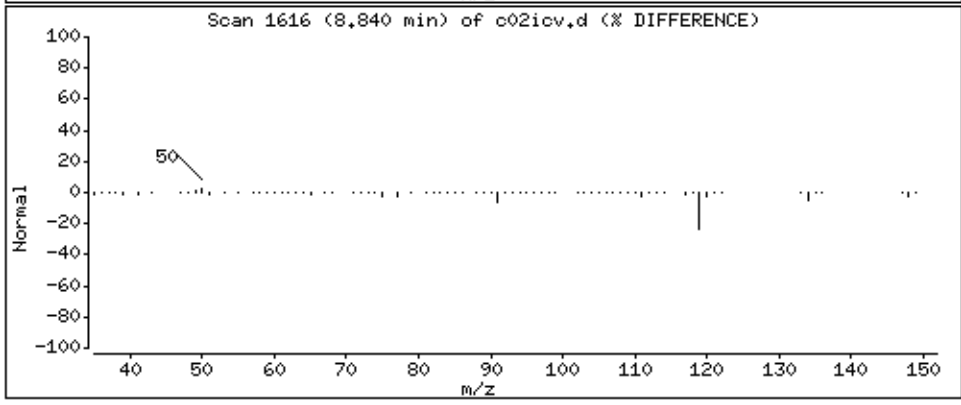
89 1,3-Dichlorobenzene

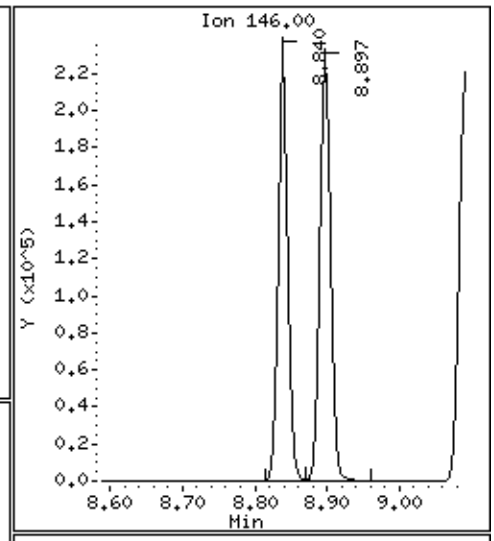
Concentration: 50.8 ppb

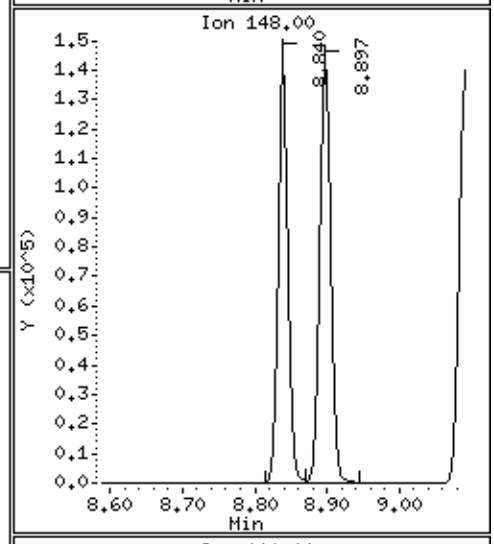


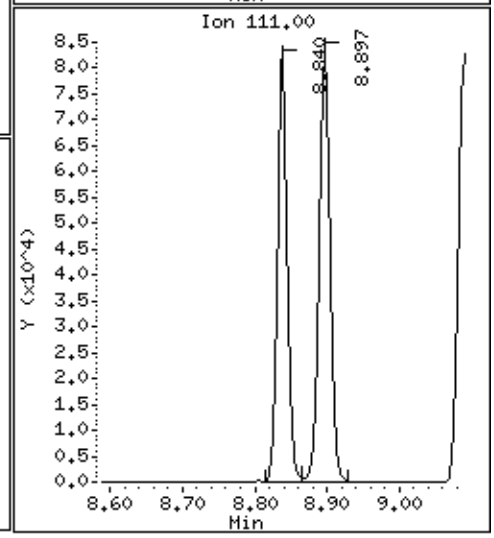












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 90

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

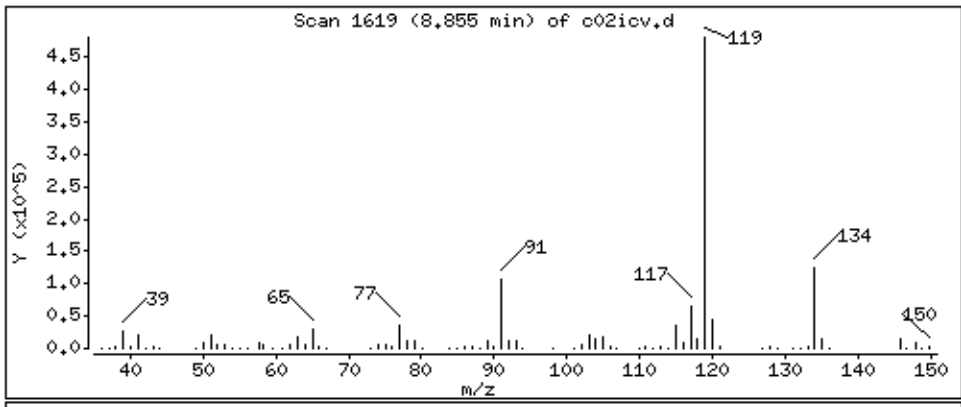
Operator: grm

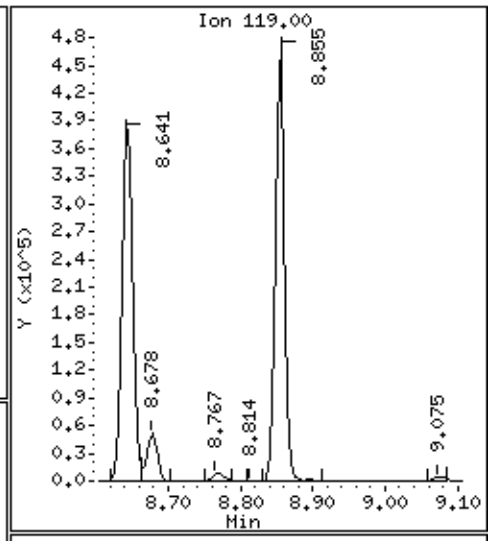
Column phase: DB-624

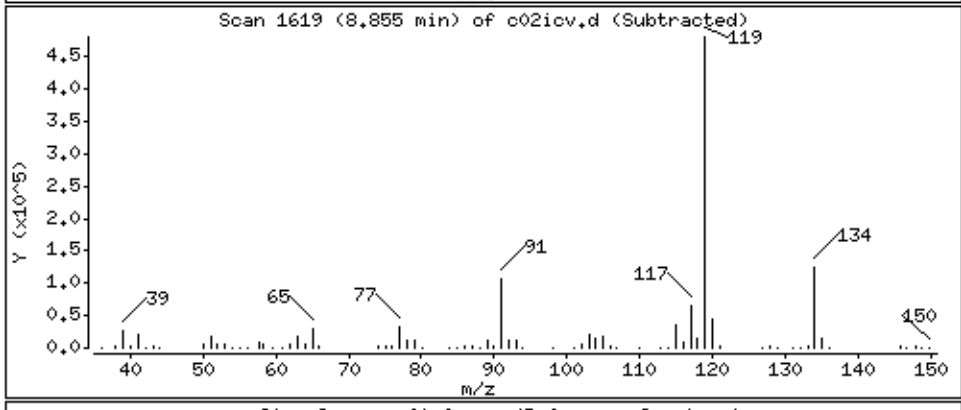
Column diameter: 0.18

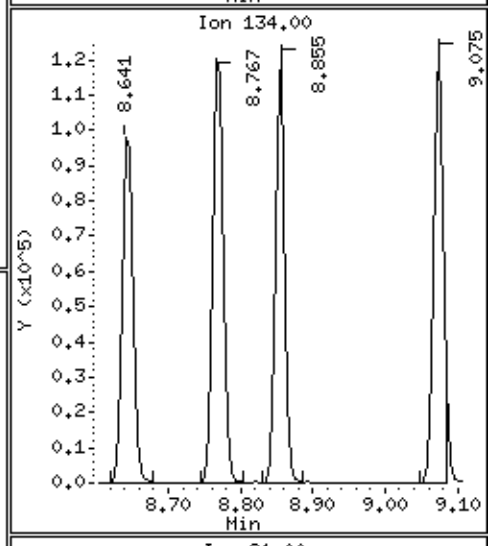
90 p-Isopropyltoluene

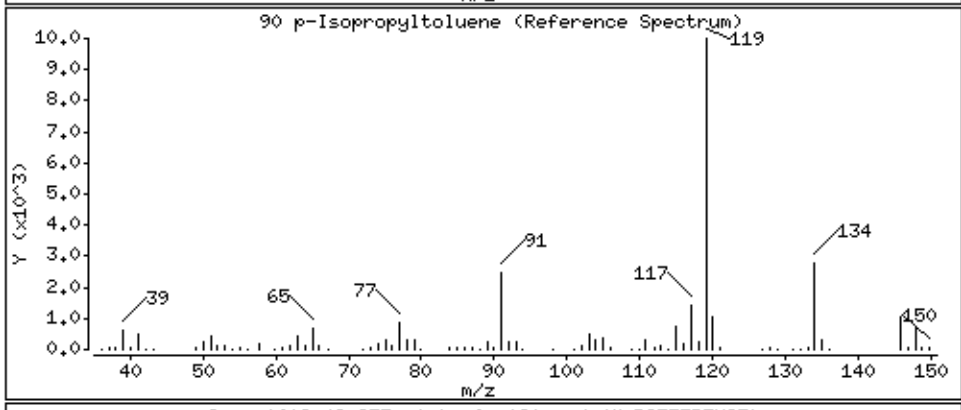
Concentration: 50.8 ppb

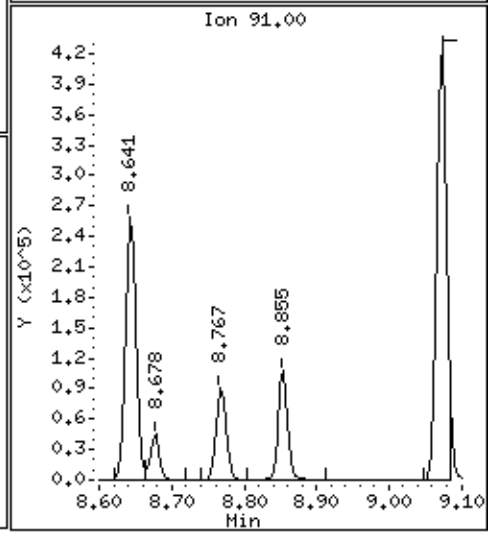


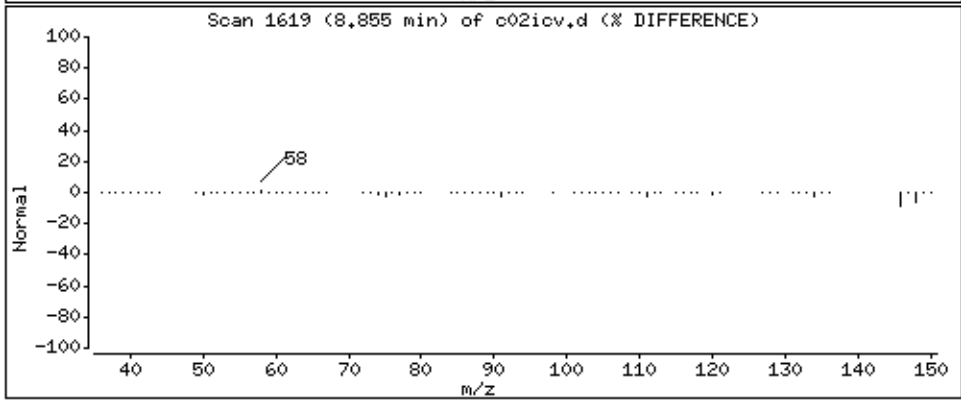












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

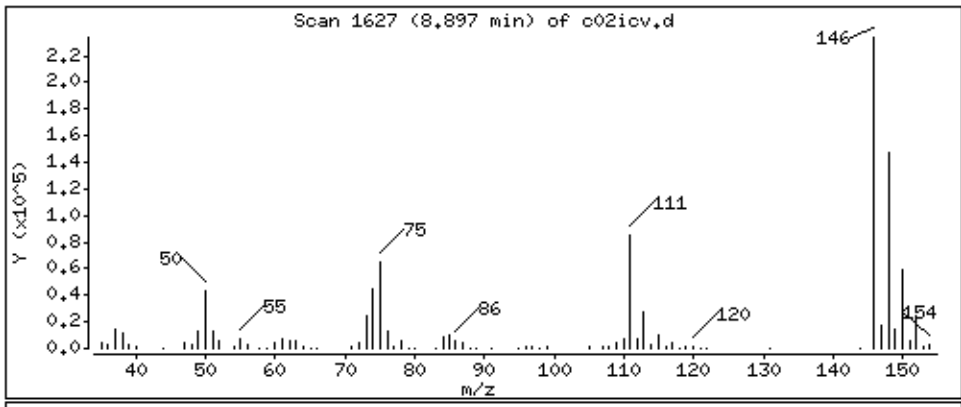
Operator: grm

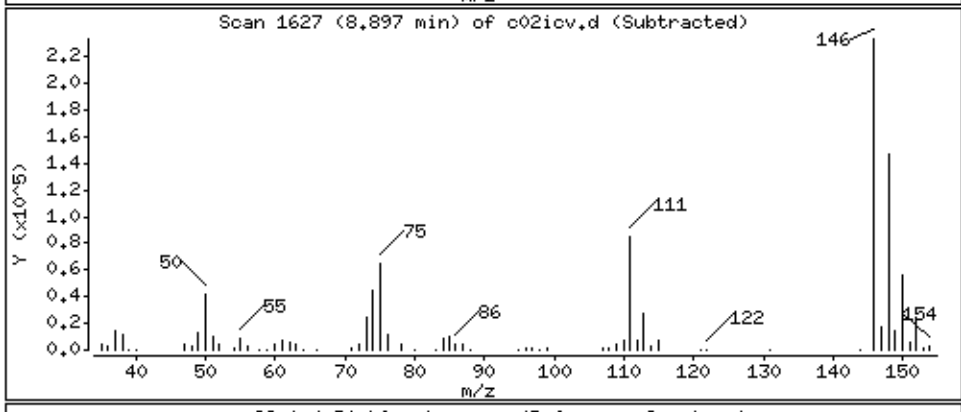
Column phase: DB-624

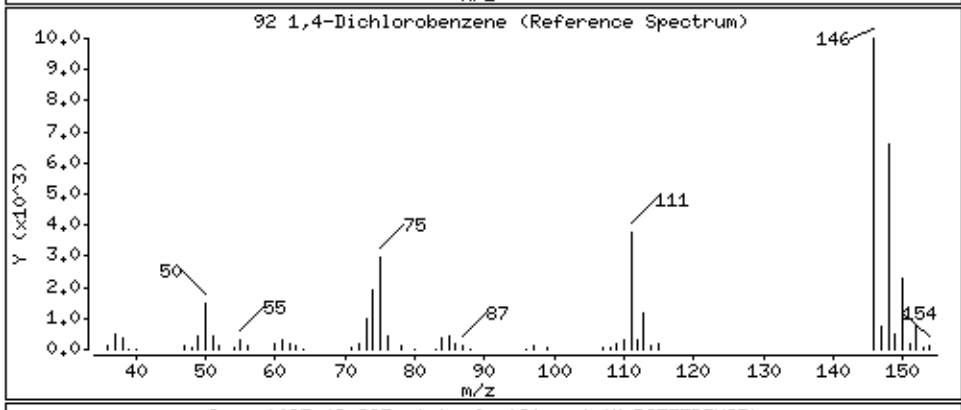
Column diameter: 0.18

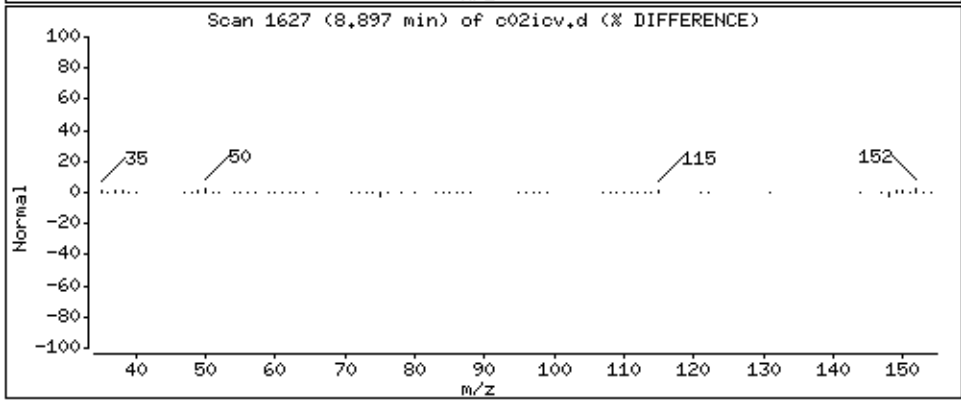
92 1,4-Dichlorobenzene

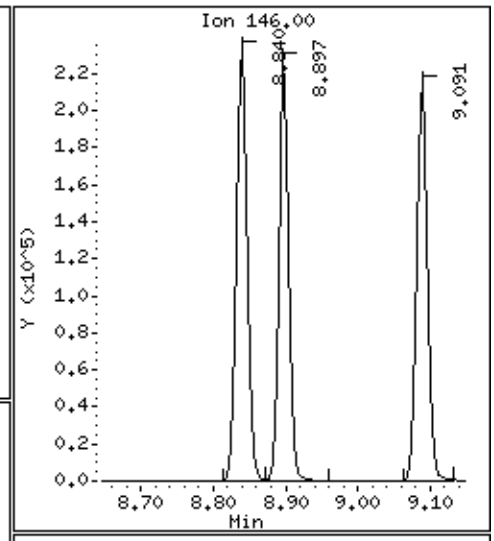
Concentration: 48.8 ppb

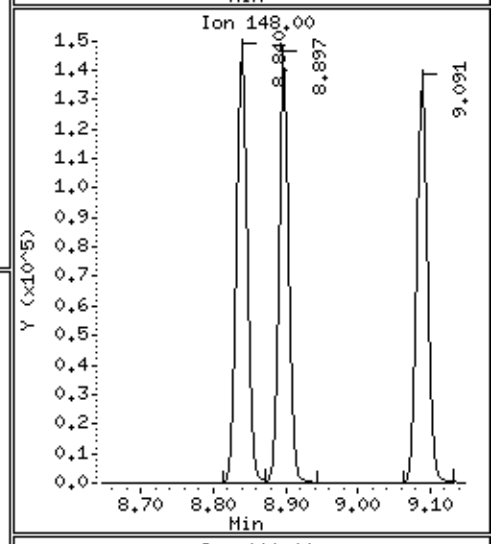


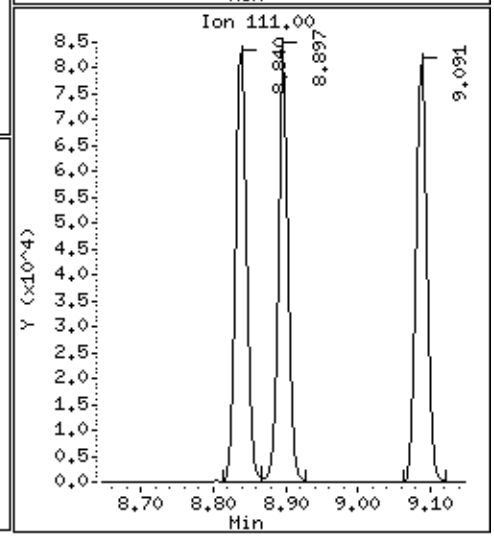












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

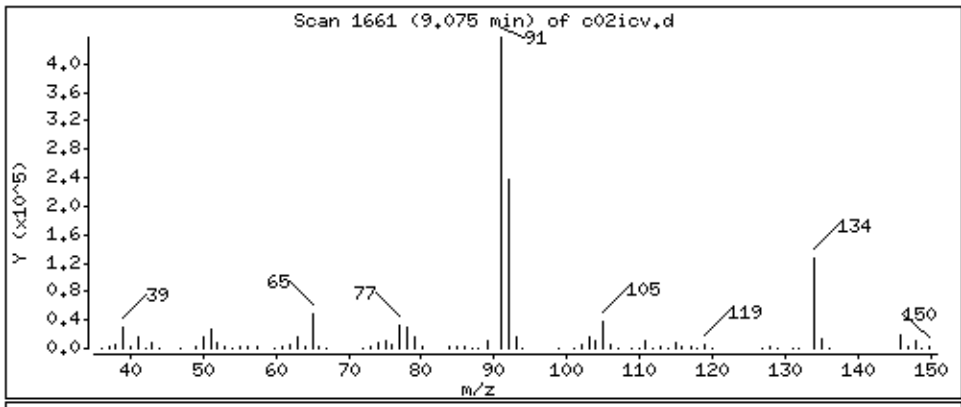
Operator: grm

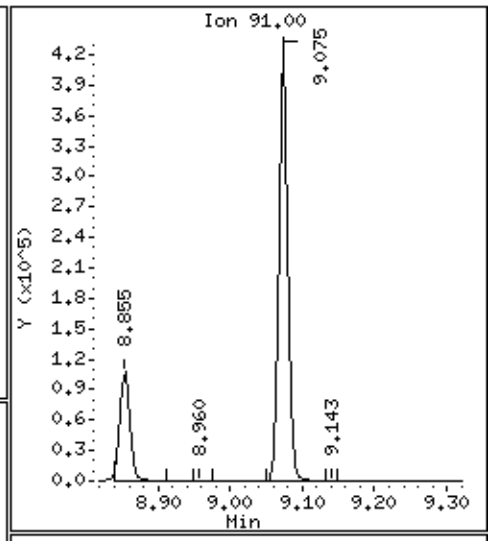
Column phase: DB-624

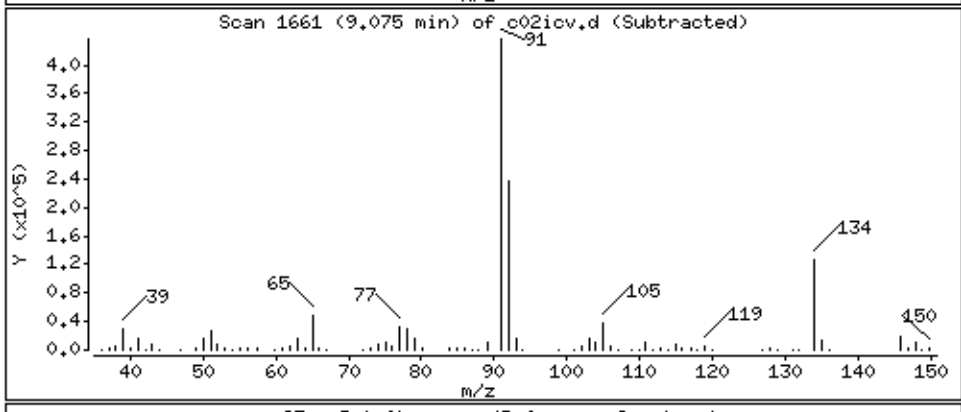
Column diameter: 0.18

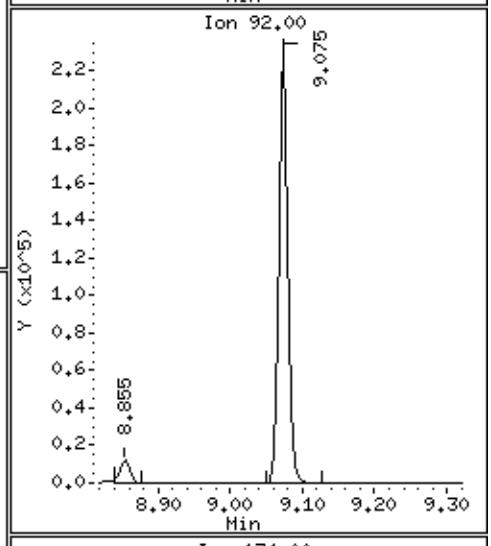
93 n-Butylbenzene

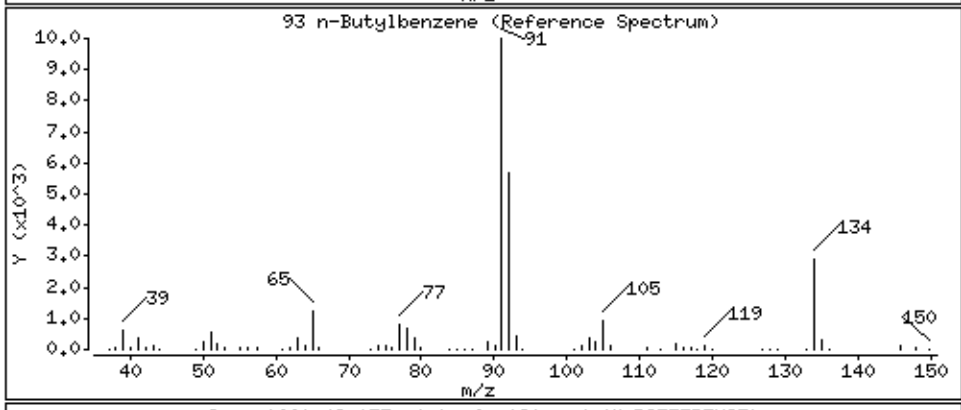
Concentration: 50.6 ppb

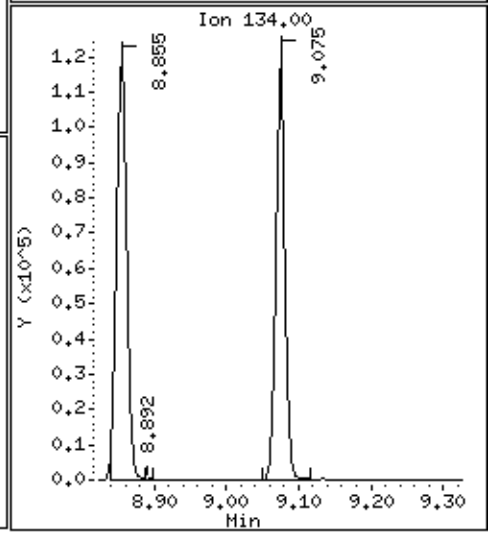


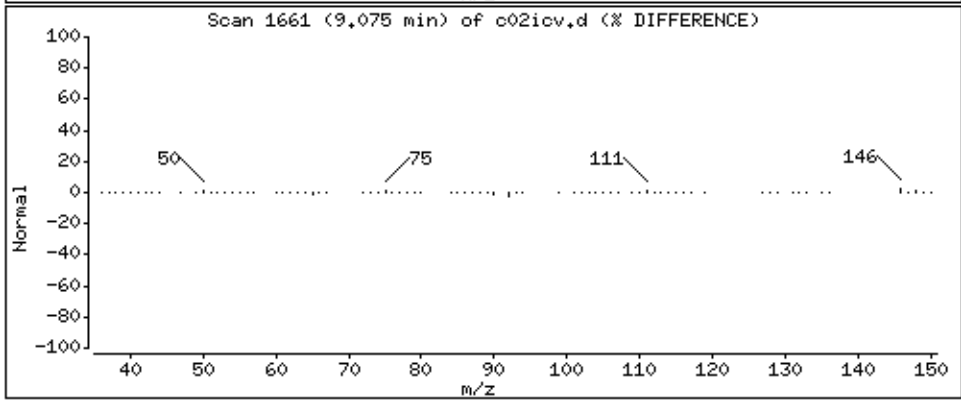












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

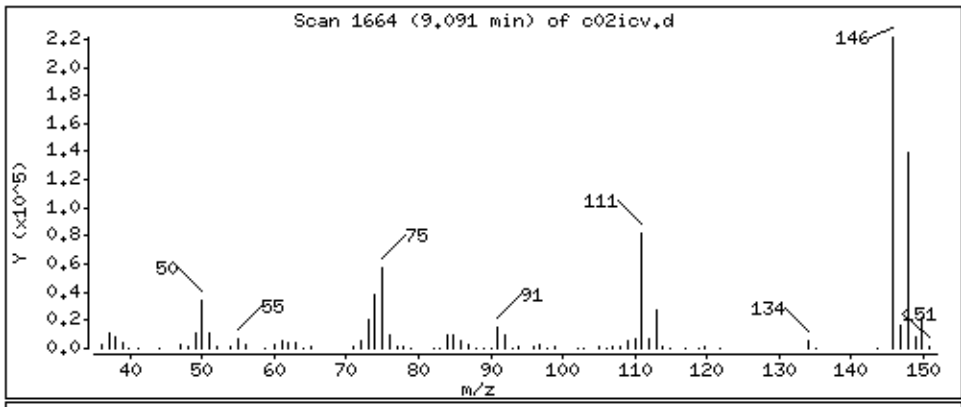
Operator: grm

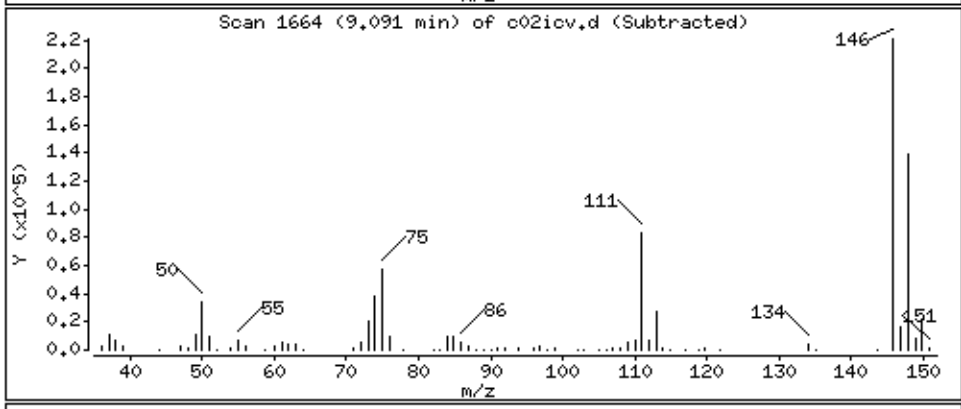
Column phase: DB-624

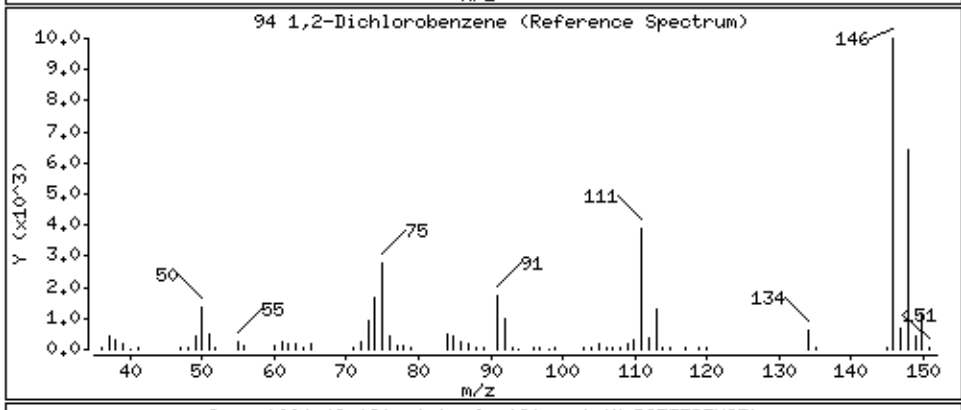
Column diameter: 0.18

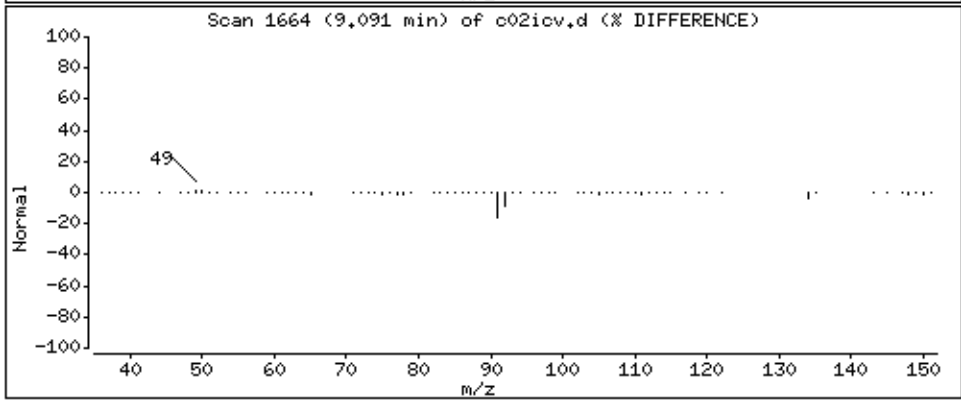
94 1,2-Dichlorobenzene

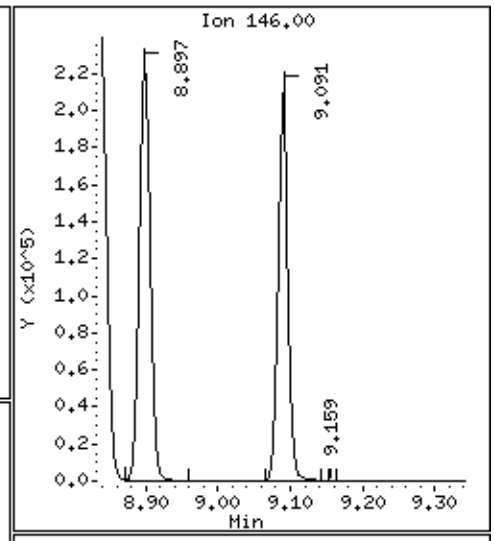
Concentration: 50.5 ppb

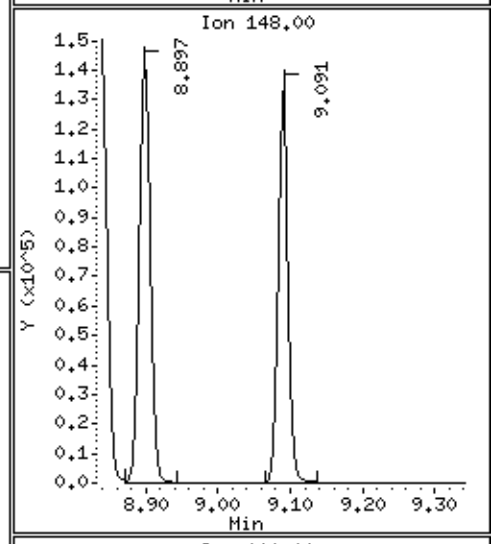


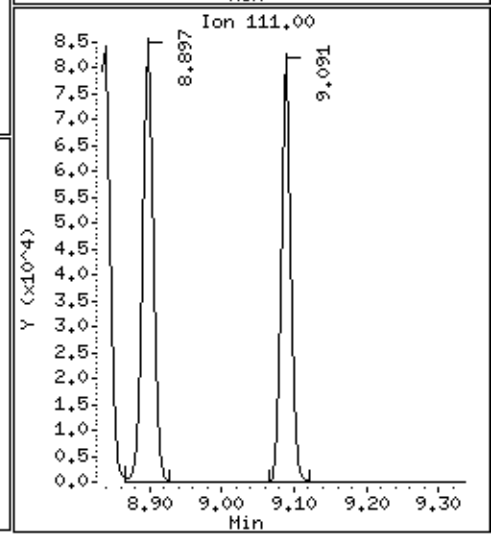












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

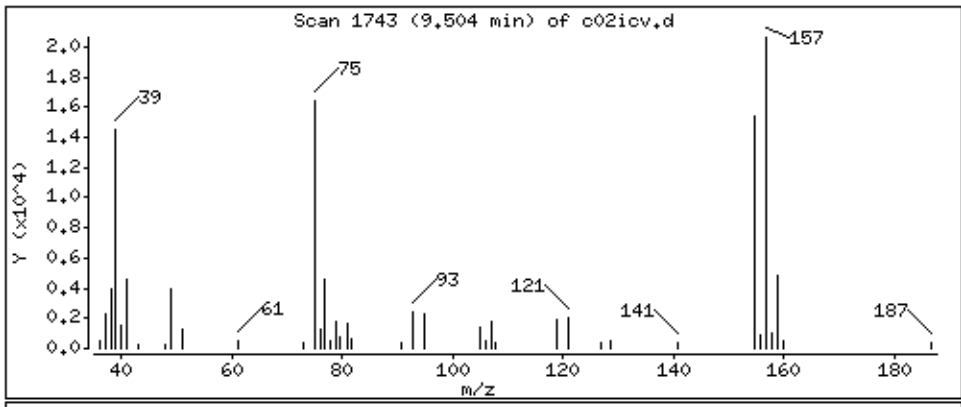
Operator: grm

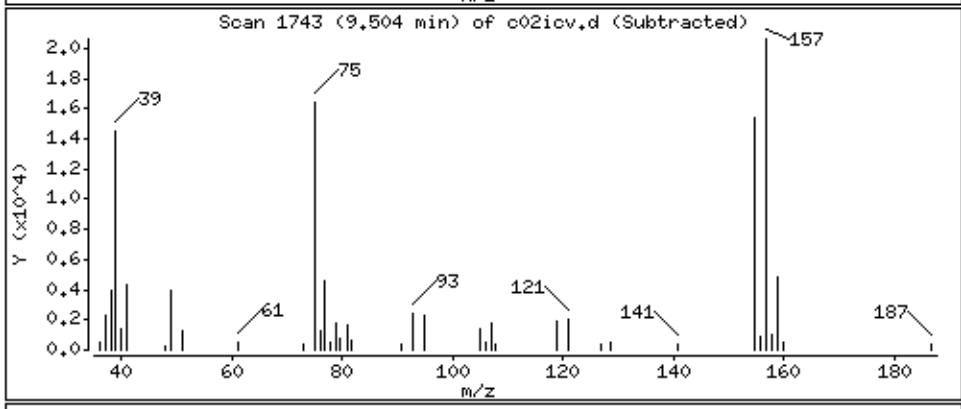
Column phase: DB-624

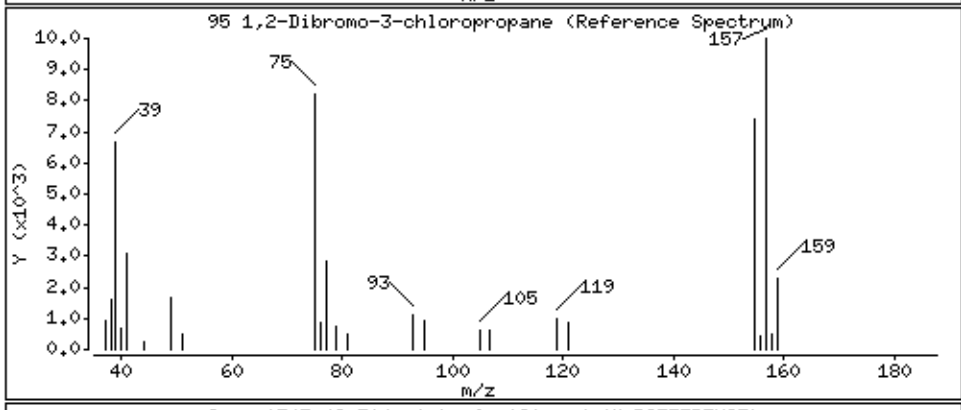
Column diameter: 0.18

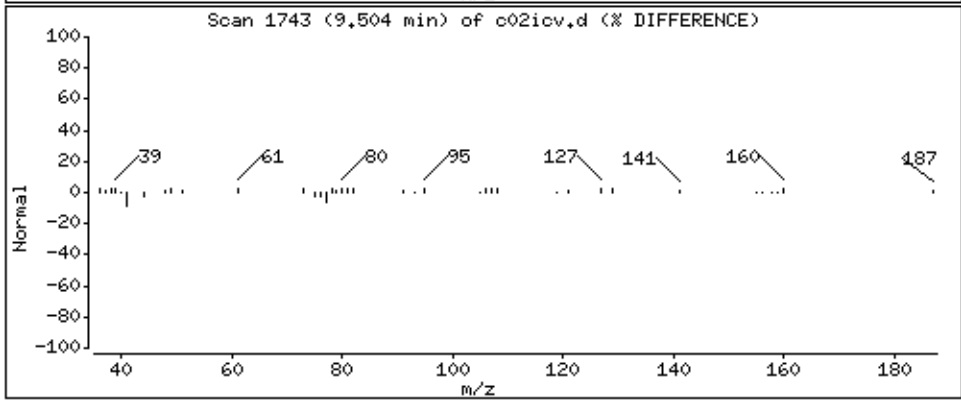
95 1,2-Dibromo-3-chloropropane

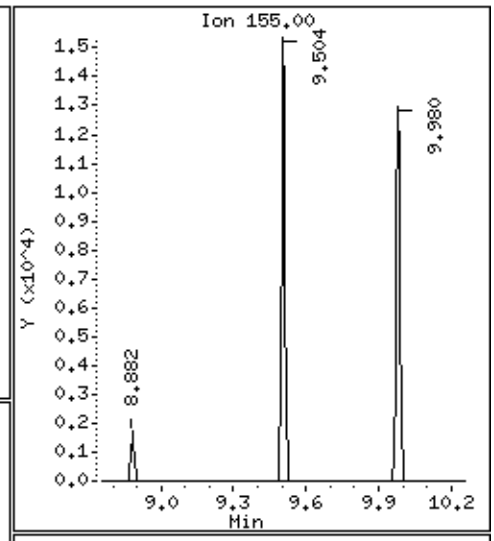
Concentration: 57.5 ppb

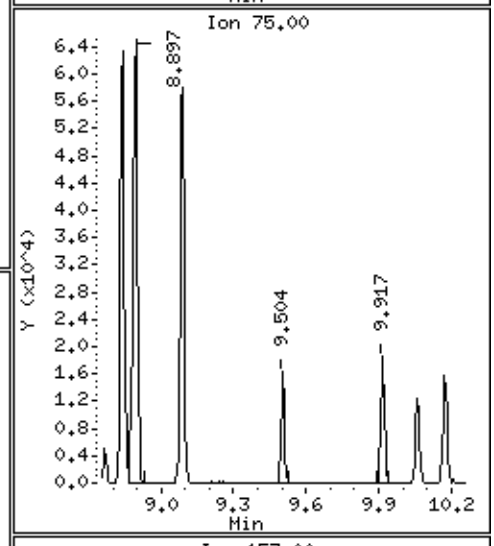


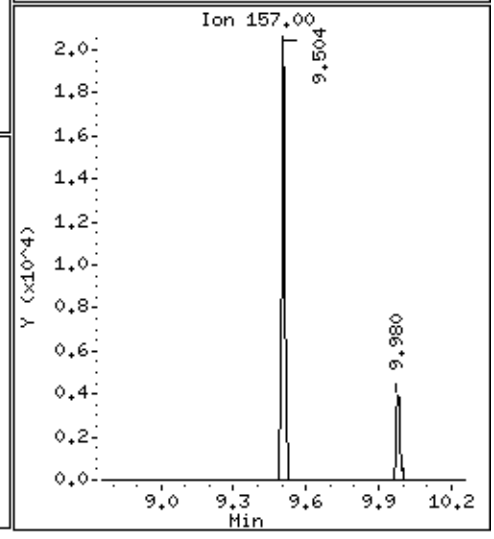












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Page 95

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

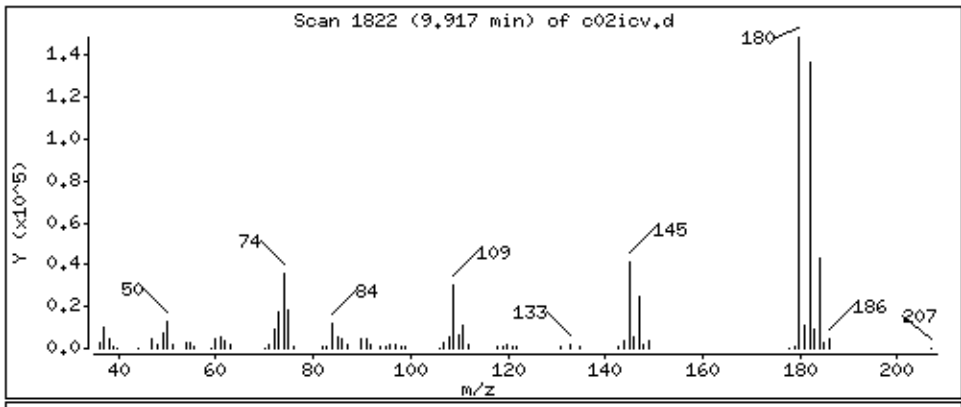
Operator: grm

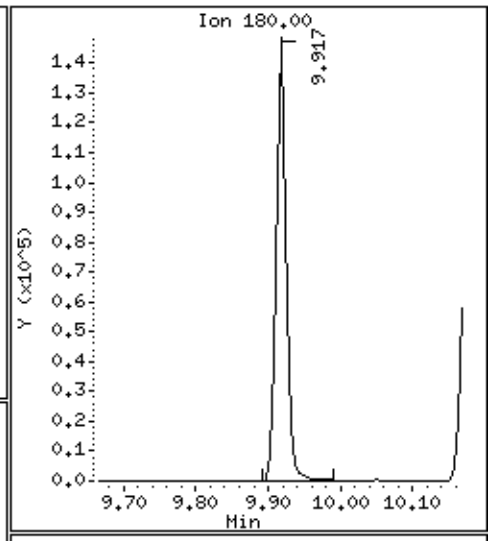
Column phase: DB-624

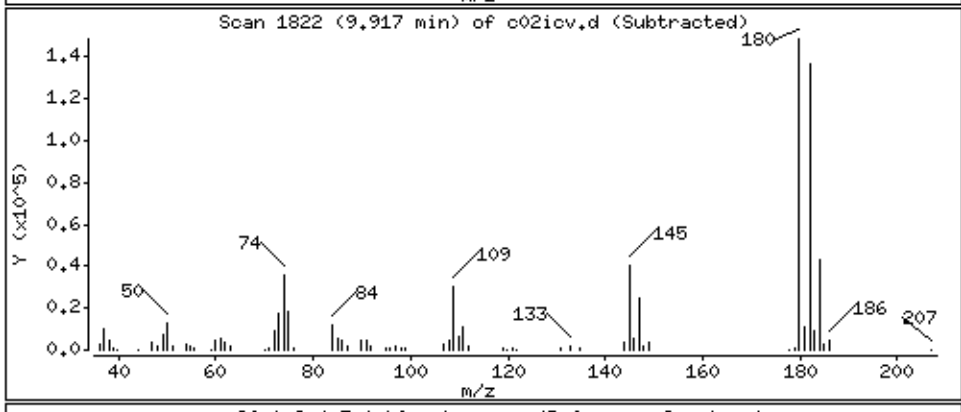
Column diameter: 0.18

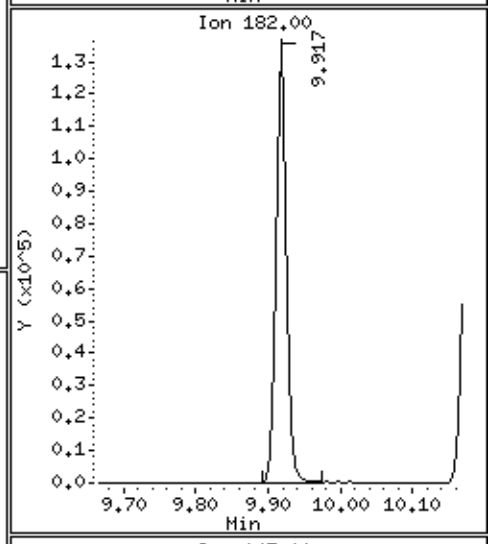
96 1,2,4-Trichlorobenzene

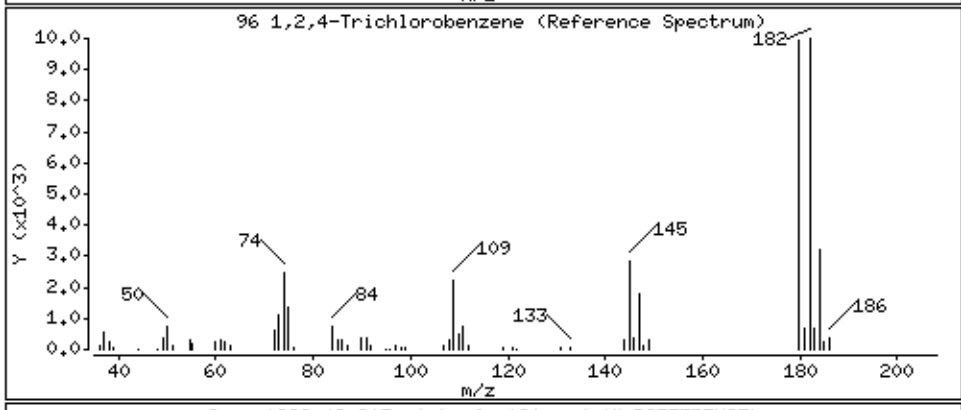
Concentration: 47.3 ppb

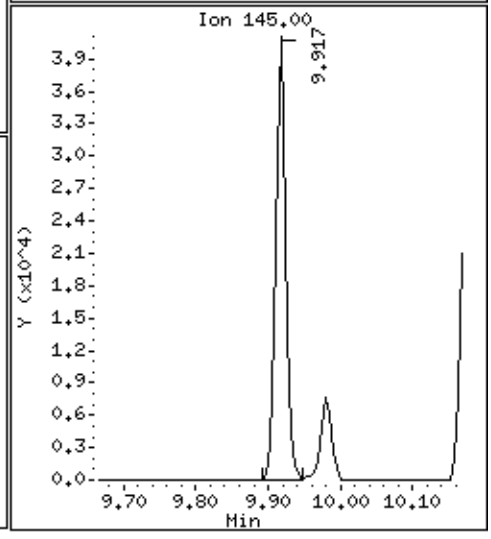


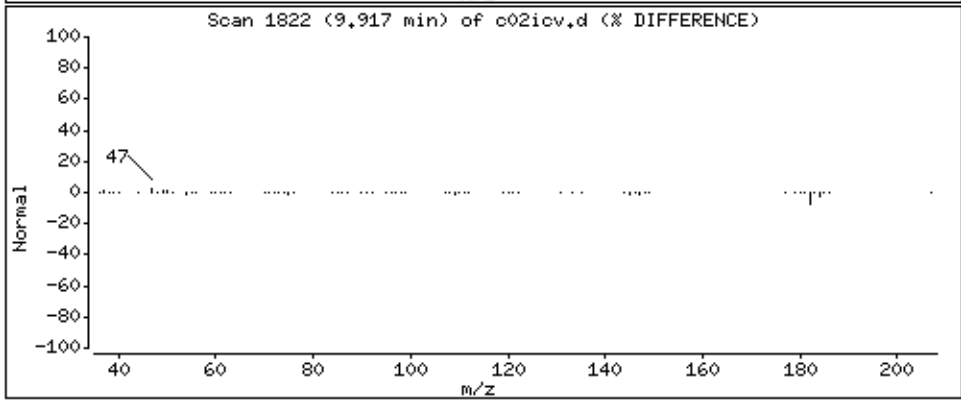












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

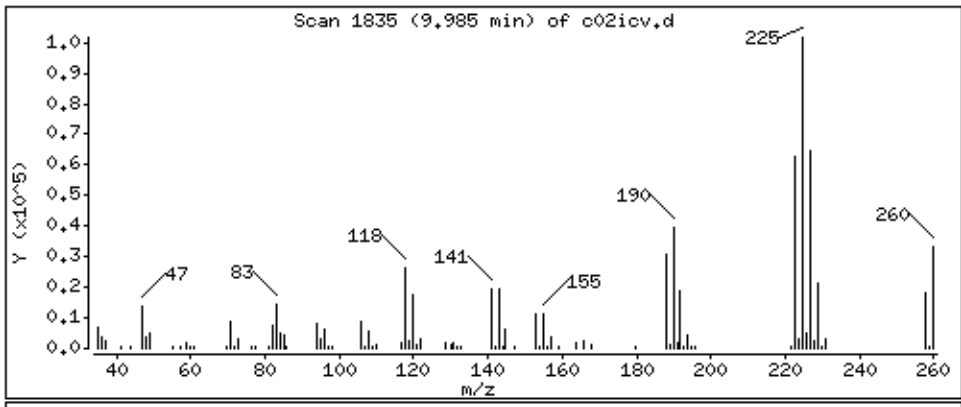
Operator: grm

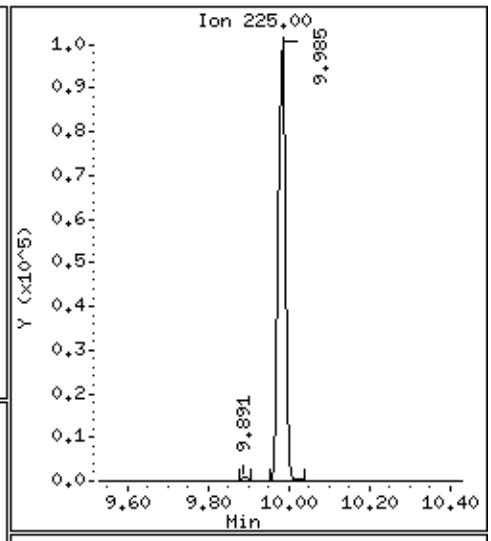
Column phase: DB-624

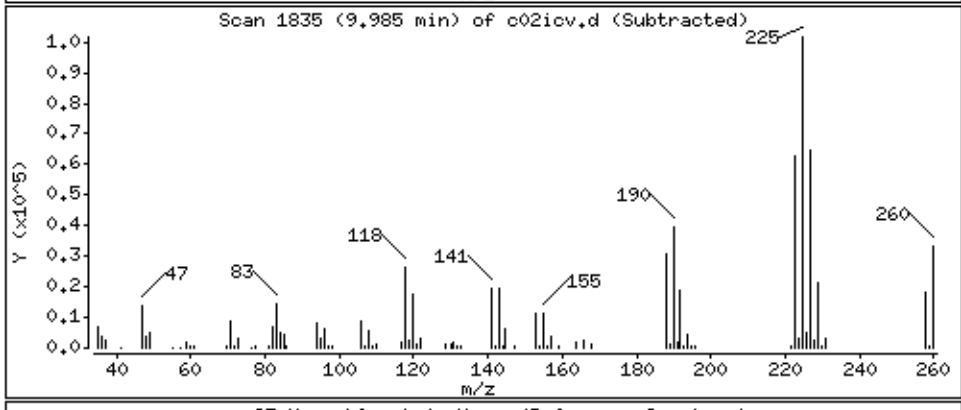
Column diameter: 0.18

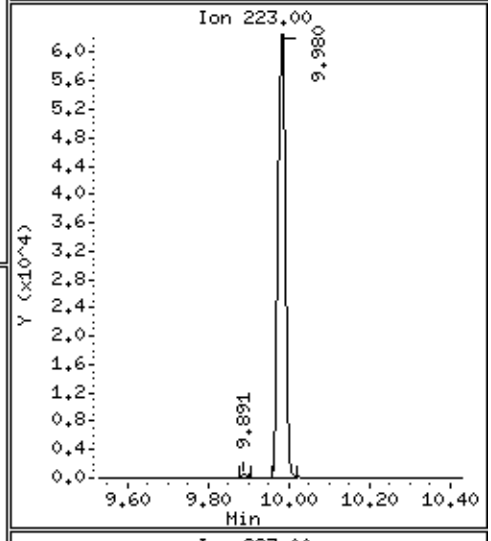
97 Hexachlorobutadiene

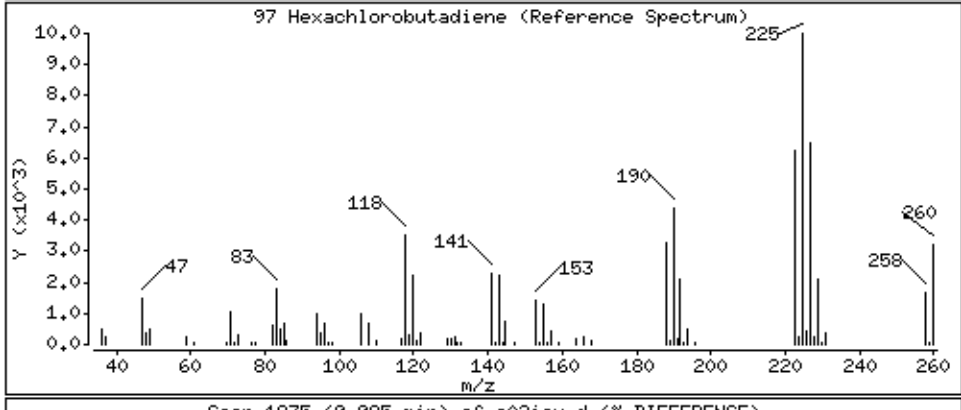
Concentration: 50.5 ppb

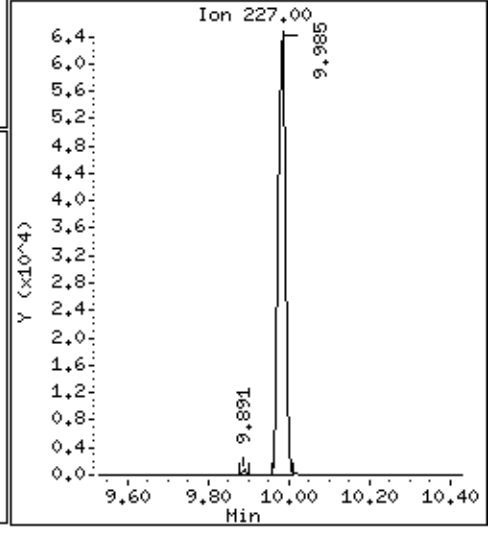


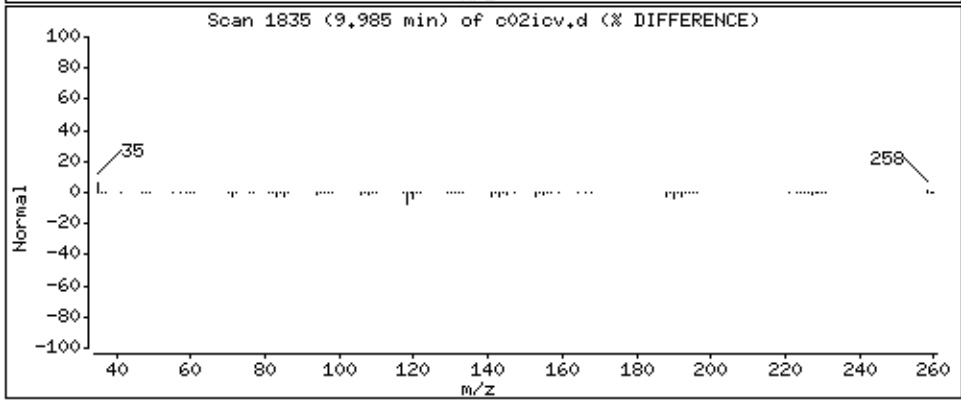












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

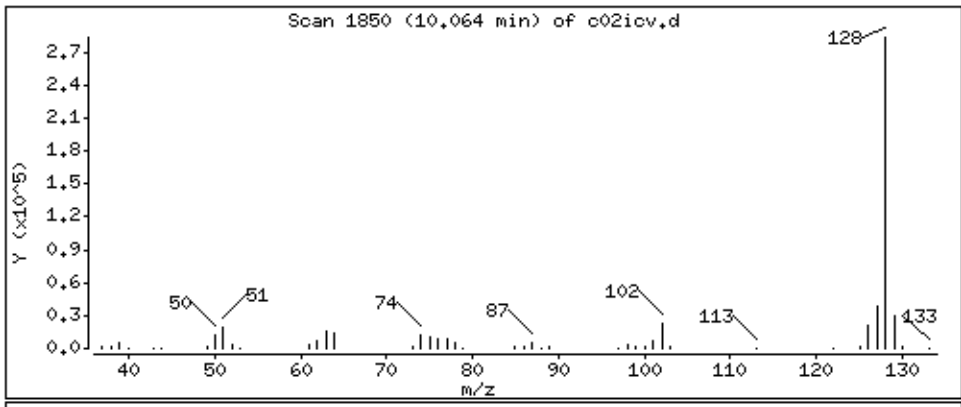
Operator: grm

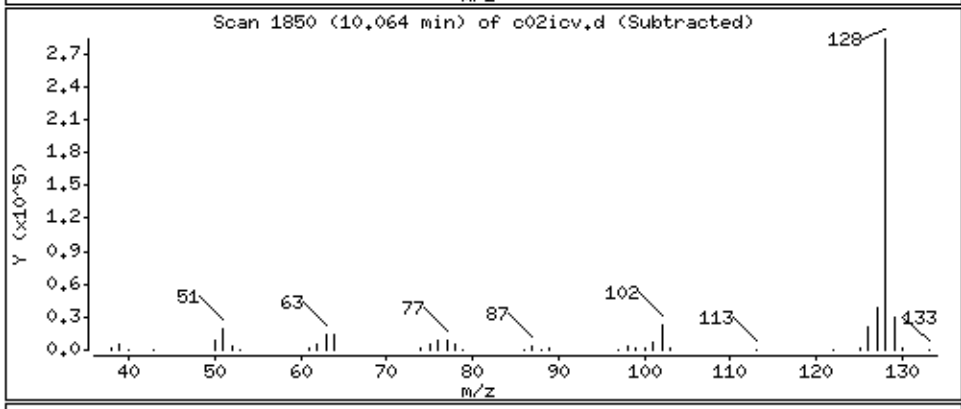
Column phase: DB-624

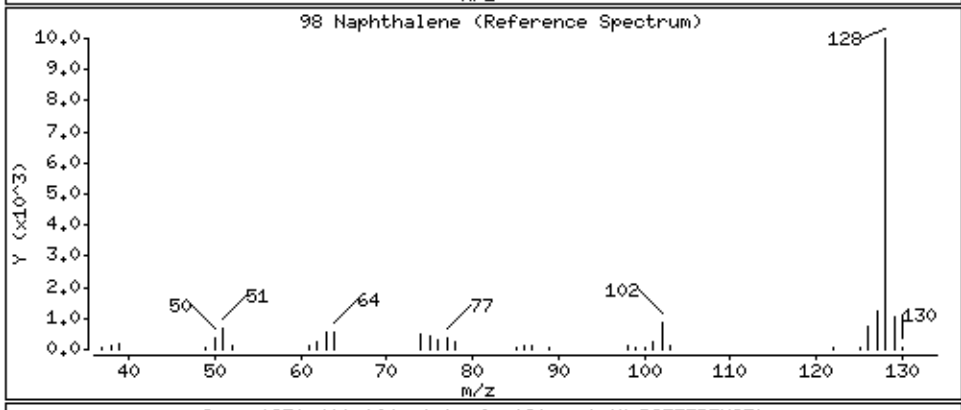
Column diameter: 0.18

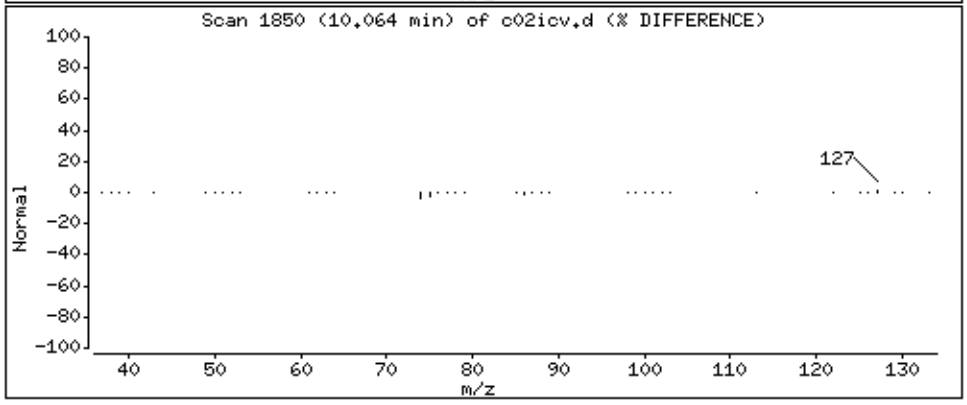
98 Naphthalene

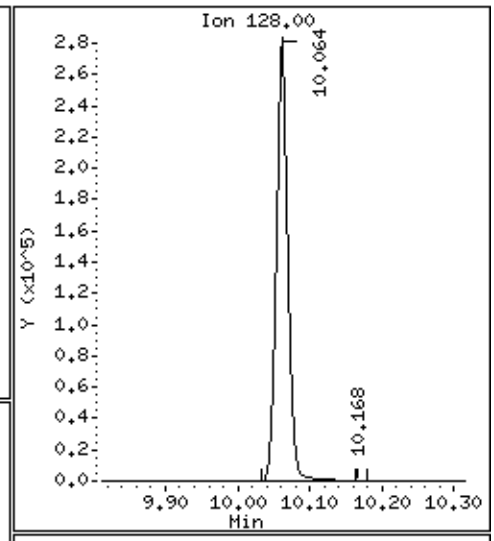
Concentration: 53.5 ppb

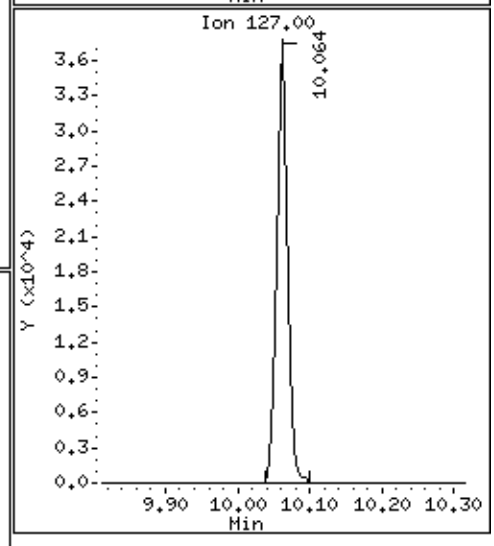












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

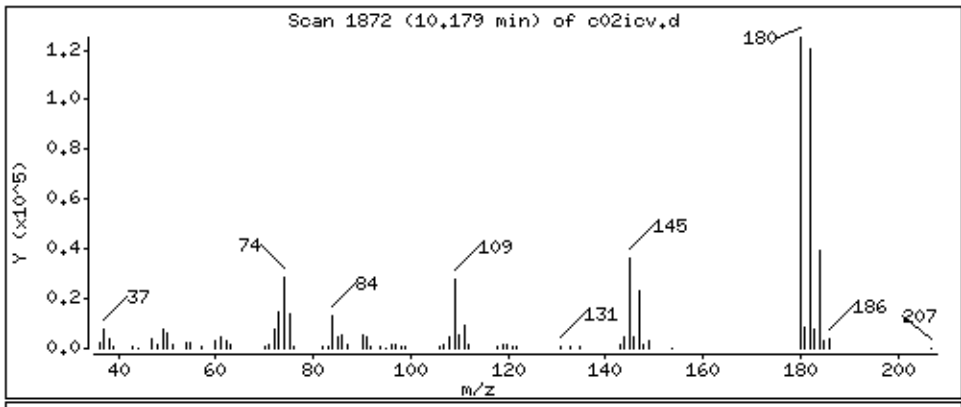
Operator: grm

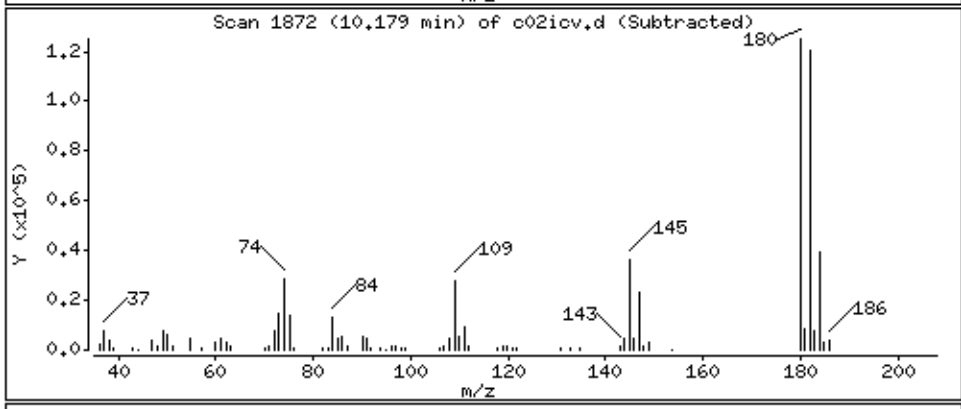
Column phase: DB-624

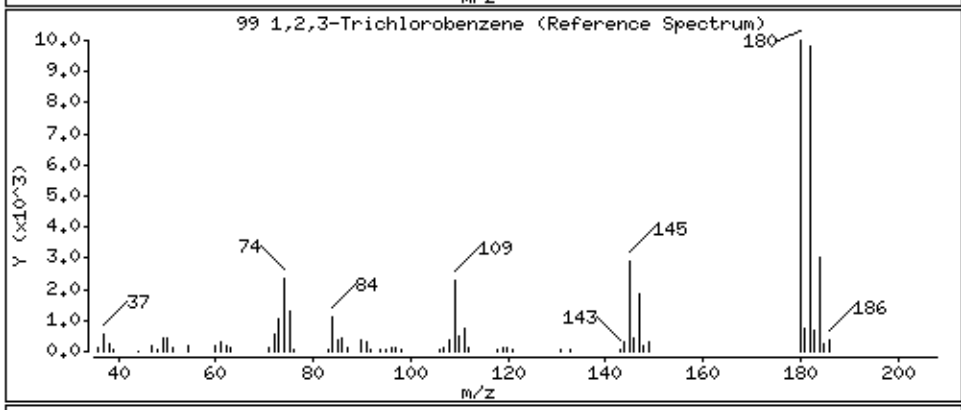
Column diameter: 0.18

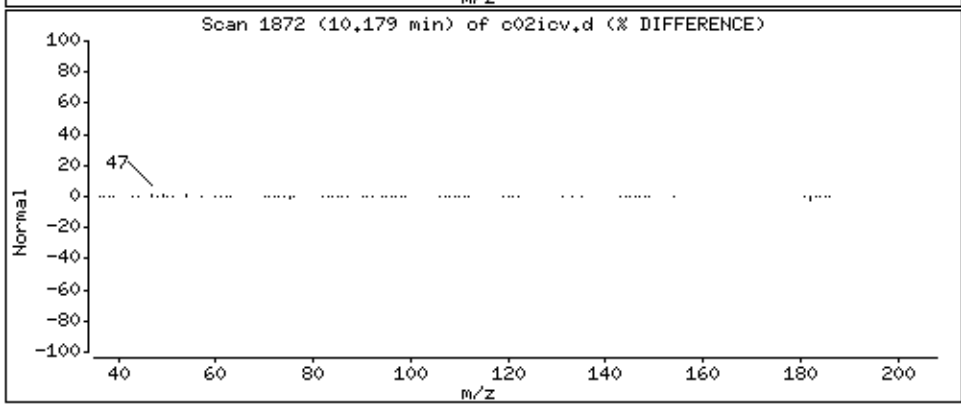
99 1,2,3-Trichlorobenzene

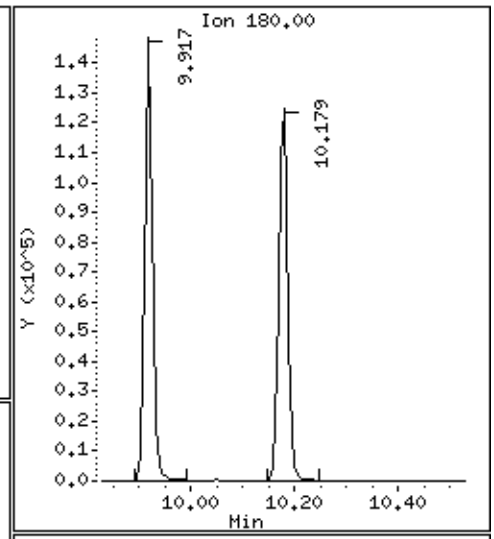
Concentration: 48.4 ppb

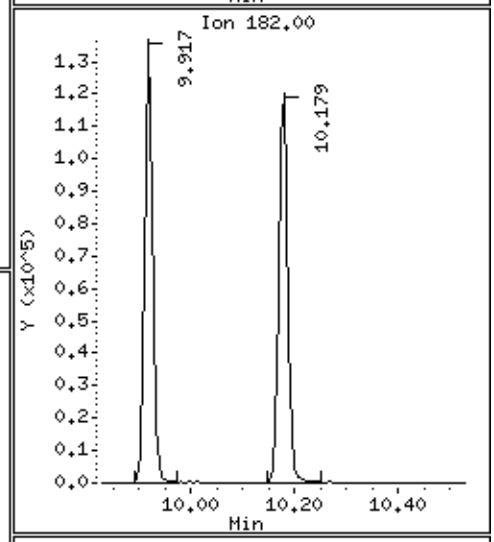


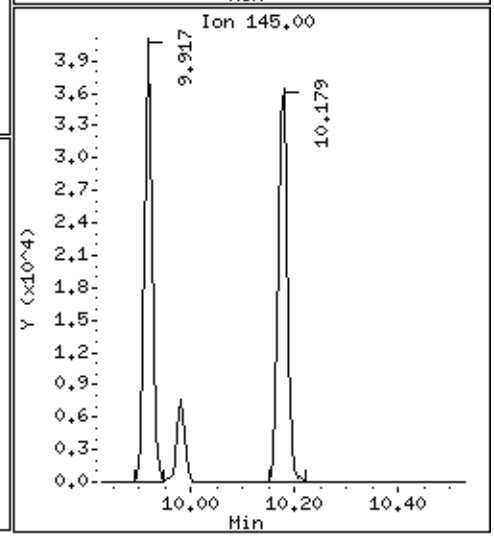












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

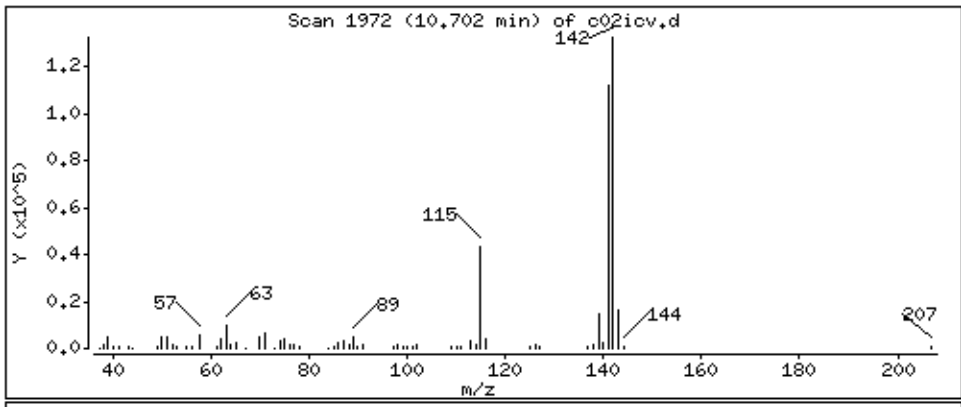
Operator: grm

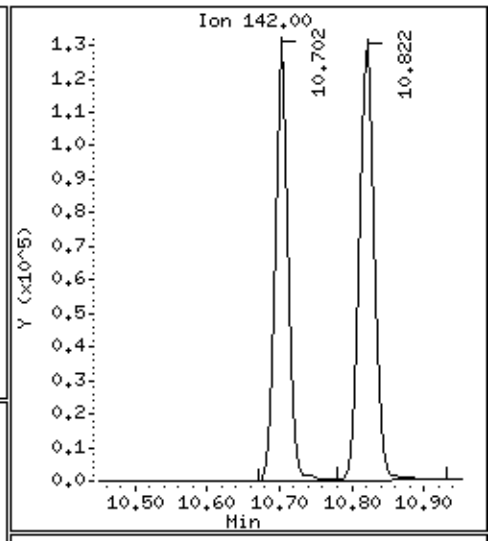
Column phase: DB-624

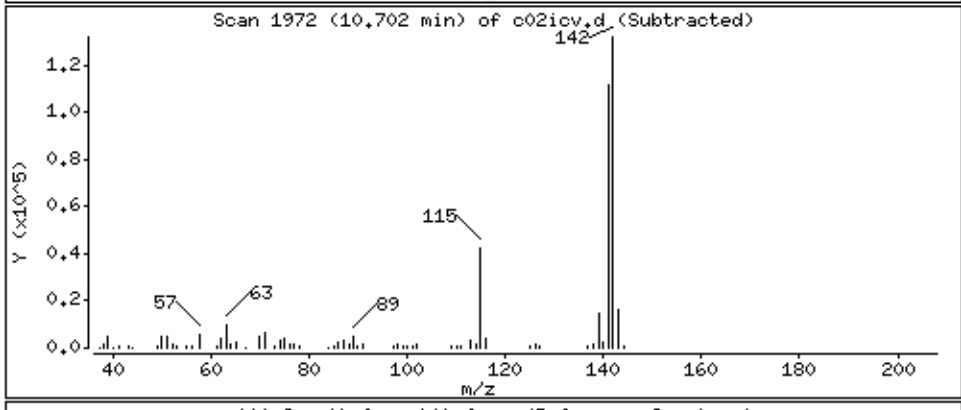
Column diameter: 0.18

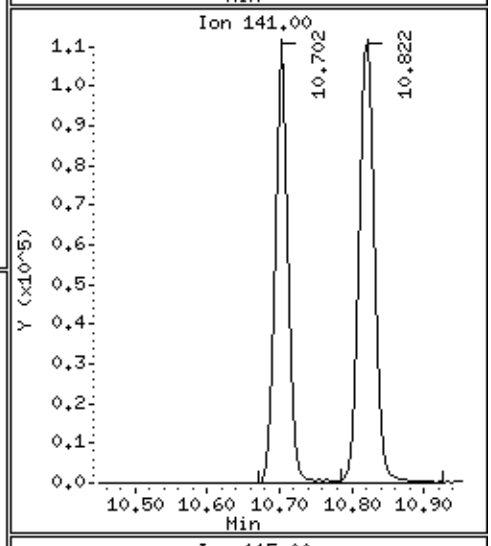
100 2,methyl-naphthalene

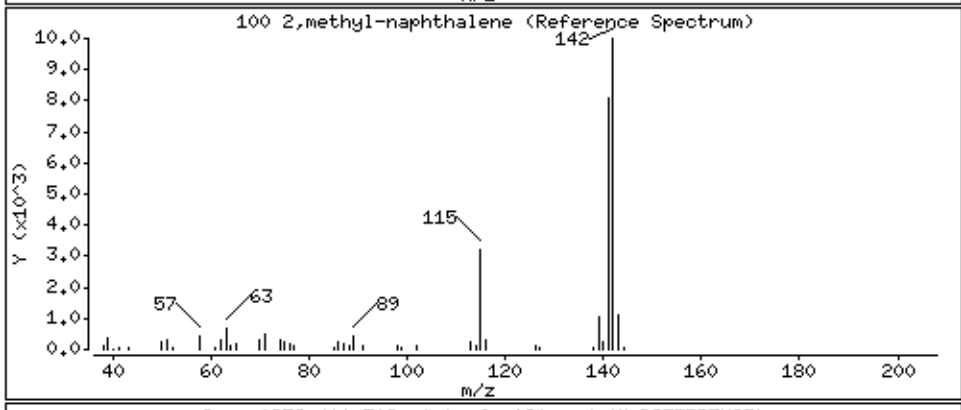
Concentration: 44.8 ppb

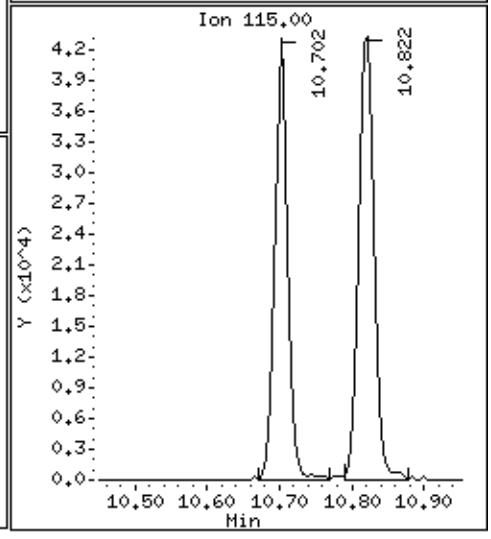


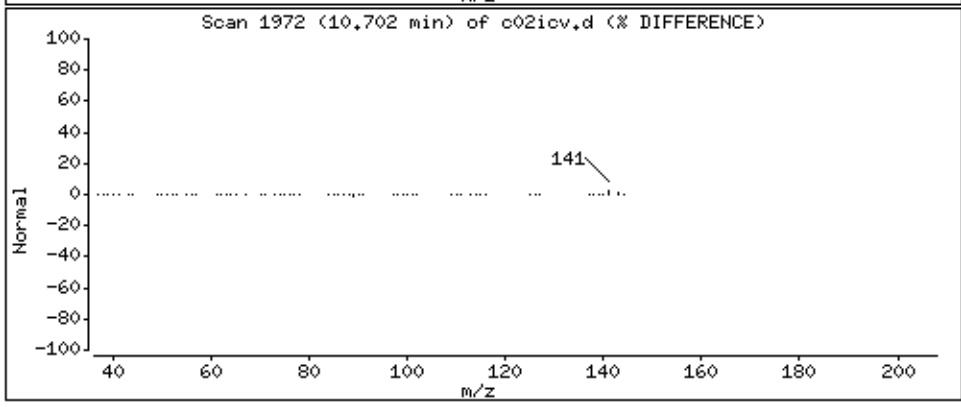












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c02icv.d

Date : 16-MAR-2016 00:44

Client ID: 8260-ICV,117048:0

Instrument: 50mv1a.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

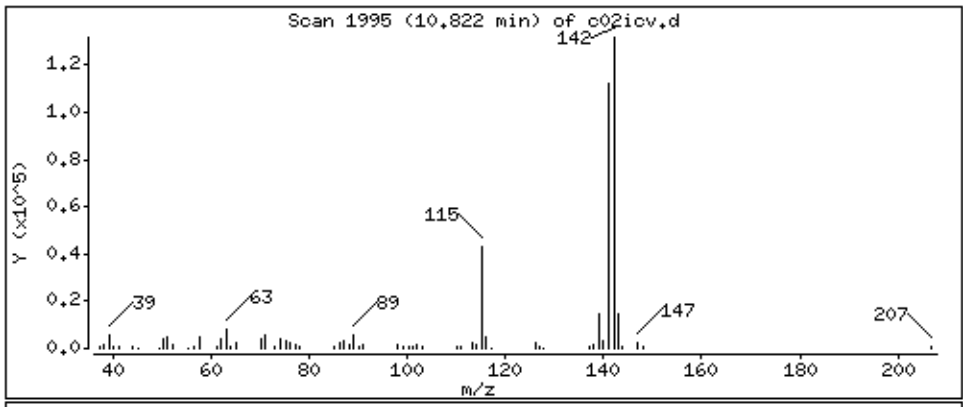
Operator: grm

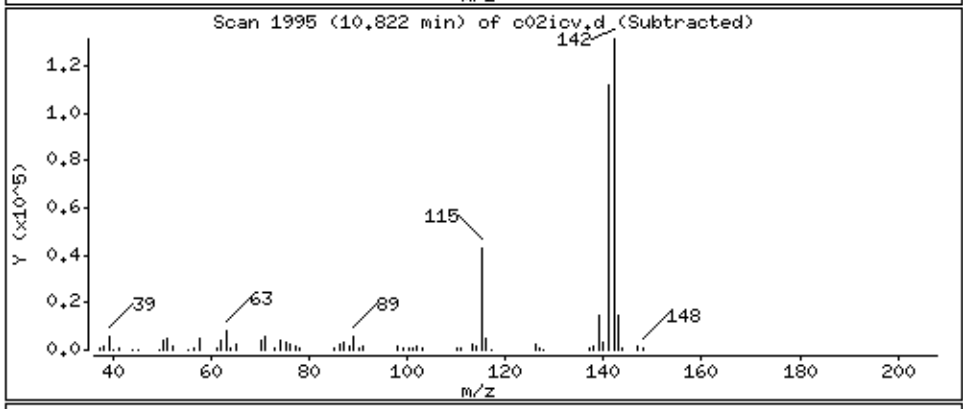
Column phase: DB-624

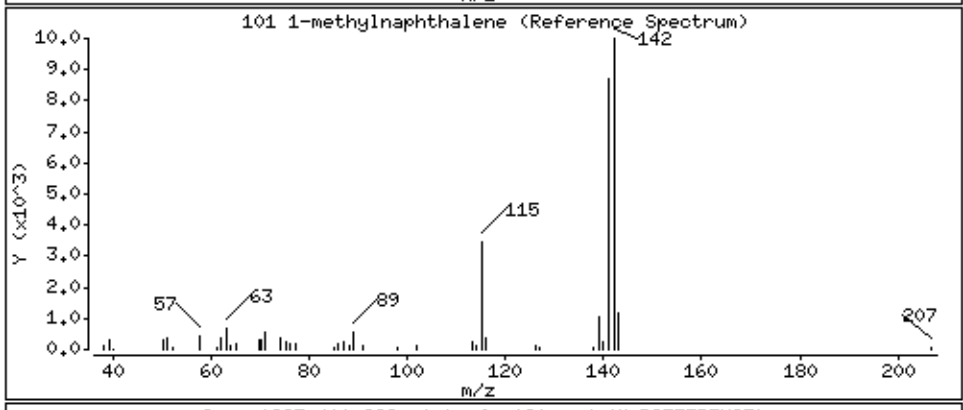
Column diameter: 0.18

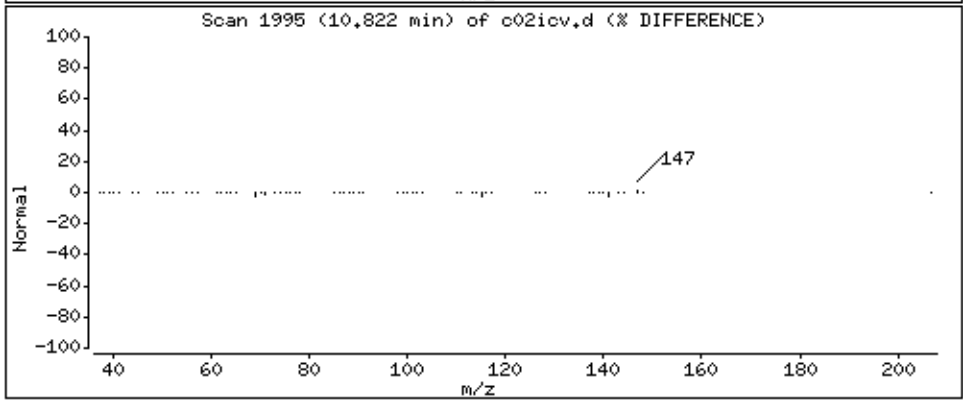
101 1-methylnaphthalene

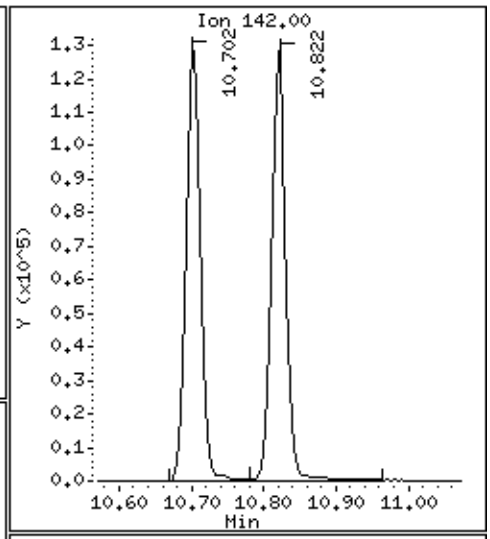
Concentration: 51.6 ppb

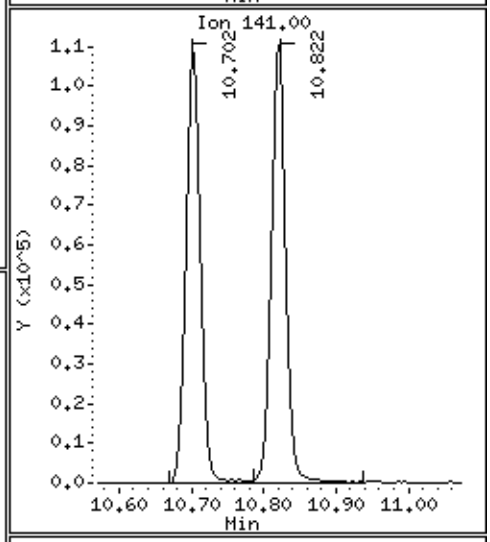


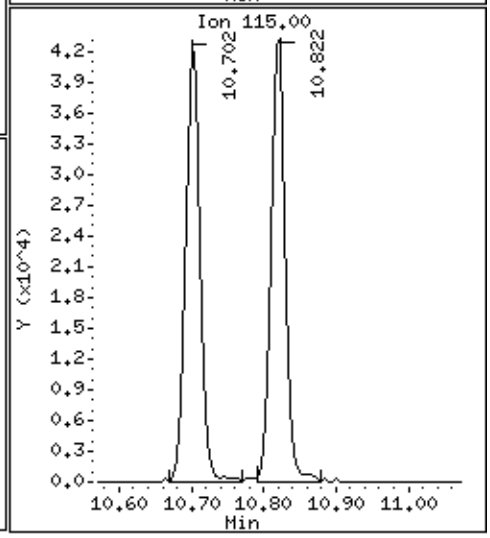












Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b/c02icv.d
Injection Date: 16-MAR-2016 00:44
Instrument: 50mv1a.i
Lab Sample ID: 8260-ICV,117048:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1a.i\a032016.b\a01ccv.d
Lab Smp Id: 8260-CCV,117049:0 Client Smp ID: 8260-CCV,117049:0
Inj Date : 20-MAR-2016 14:09
Operator : grm Inst ID: 50mv1a.i
Smp Info : 8260-ccv,117049:0
Misc Info : 87938
Comment :
Method : \\192.168.50.6\chem\50mv1a.i\a032016.b\a8260_a_c.m
Meth Date : 21-Mar-2016 11:05 50mv1a.i Quant Type: ISTD
Cal Date : 15-MAR-2016 21:49 Cal File: a08cal.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.915	0.915	(0.217)	125496	50.0000	49.2	
2	Chloromethane	50	0.993	0.993	(0.236)	114506	50.0000	34.5	
3	Vinyl Chloride	62	1.046	1.046	(0.248)	134111	50.0000	46.7	
4	Bromomethane	94	1.187	1.187	(0.282)	34073	50.0000	39.9	
5	Chloroethane	64	1.239	1.239	(0.294)	59419	50.0000	38.6	
6	Trichlorofluoromethane	101	1.349	1.349	(0.320)	169088	50.0000	51.6	
7	Diethyl ether	74	1.480	1.480	(0.351)	44095	50.0000	53.1	
8	1,2-dichlorotrifluoroethane	67	1.495	1.495	(0.355)	133682	50.0000	57.8	
9	Acrolein	56	1.553	1.553	(0.368)	173224	1000.00	942	
10	1,1,2trichlorotrifluoroethane	101	1.605	1.605	(0.381)	116369	50.0000	57.6	
11	1,1-Dichloroethene	96	1.611	1.611	(0.382)	97558	50.0000	62.1	
12	Acetone	43	1.621	1.621	(0.385)	98418	250.000	240	
13	Iodomethane	142	1.699	1.699	(0.403)	40460	100.000	42.6	
14	Carbon Disulfide	76	1.747	1.747	(0.414)	278673	50.0000	50.6	
15	Methyl Acetate	43	1.794	1.794	(0.426)	58083	50.0000	50.4	
16	Acetonitrile	39	1.809	1.809	(0.429)	206209	50.0000	45.4	
17	allyl chloride	41	1.809	1.809	(0.429)	262431	100.000	89.5	
18	Methylene Chloride	84	1.888	1.888	(0.448)	79143	50.0000	43.8	
19	tert-Butyl Alcohol	59	1.924	1.924	(0.457)	17200	100.000	107(Q)	
20	Acrylonitrile	53	2.024	2.024	(0.480)	100597	200.000	212	
21	Methyl-tert-butyl ether	73	2.045	2.045	(0.485)	178685	50.0000	40.4	
22	1,2-Dichloroethene (trans)	96	2.060	2.060	(0.489)	98049	50.0000	55.6	
23	n-Hexane	57	2.243	2.243	(0.532)	175784	50.0000	52.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.358	2.358	(0.560)	563839	200.000	181	
	25 1,1-Dichloroethane	63	2.369	2.369	(0.562)	184663	50.0000	52.7	
	26 Chloroprene	53	2.421	2.421	(0.574)	187621	50.0000	55.6	
	28 2-Butanone	43	2.834	2.834	(0.672)	172640	250.000	258	
	29 1,2-Dichloroethene (cis)	96	2.850	2.850	(0.676)	100650	50.0000	51.9	
	30 2,2-Dichloropropane	77	2.855	2.855	(0.677)	76035	50.0000	29.3	
	31 Propionitrile	54	2.897	2.897	(0.687)	10254	50.0000	57.1	
	32 Methacrylonitrile	41	3.049	3.049	(0.723)	48346	50.0000	55.4	
	33 Bromochloromethane	49	3.091	3.091	(0.733)	66468	50.0000	47.7	
	34 Tetrahydrofuran	42	3.106	3.106	(0.737)	21540	50.0000	56.9	
	35 Chloroform	83	3.200	3.200	(0.759)	176896	50.0000	53.0	
	37 1,1,1-Trichloroethane	97	3.373	3.373	(0.800)	154712	50.0000	52.2	
$	38 Dibromofluoromethane (S)	113	3.378	3.378	(0.801)	91413	50.0000	46.3	
	150 n-butyl chloride	56	3.525	3.525	(0.836)	224822	50.0000	53.3	
	39 Cyclohexane	56	3.457	3.457	(0.820)	199806	50.0000	57.1	
	40 Carbon Tetrachloride	117	3.561	3.561	(0.845)	110225	50.0000	44.8	
	41 1,1-Dichloropropene	75	3.567	3.567	(0.846)	146365	50.0000	56.9	
	42 Benzene	78	3.812	3.812	(0.904)	383385	50.0000	53.7	
	43 1,2-Dichloroethane	62	3.907	3.907	(0.927)	119758	50.0000	48.1	
	44 Isobutyl alcohol	43	3.985	3.985	(0.945)	87928	50.0000	59.2	
	45 2,2,4-Trimethylpentane	57	3.985	3.985	(0.945)	463583	50.0000	59.6	
*	46 Fluorobenzene (IS)	96	4.215	4.215	(1.000)	392625	50.0000		
	47 Trichloroethene	95	4.665	4.665	(1.107)	114388	50.0000	58.3	
	48 Methylcyclohexane	55	4.932	4.932	(1.170)	170034	50.0000	59.1	
	49 1,2-Dichloropropane	63	4.979	4.979	(1.181)	96431	50.0000	52.4	
	52 1,4-Dioxane	88	5.083	5.083	(1.206)	14534	1000.00	1040	
	50 Dibromomethane	93	5.078	5.078	(1.205)	42381	50.0000	44.2	
	51 Methyl methacrylate	69	5.089	5.089	(1.207)	49969	50.0000	51.8	
	53 Bromodichloromethane	83	5.298	5.298	(1.257)	111997	50.0000	46.1	
	54 2-Chloroethyl vinyl ether	63	5.648	5.648	(0.764)	61678	100.000	87.3	
	55 cis-1,3-Dichloropropene	75	5.795	5.795	(0.784)	108170	50.0000	43.1	
	56 4-Methyl-2-Pentanone	43	5.972	5.972	(0.808)	357789	250.000	258	
$	57 Toluene-d8	98	6.067	6.067	(0.821)	367985	50.0000	50.4	
	58 Toluene	91	6.140	6.140	(0.831)	415555	50.0000	51.4	
	59 trans-1,3-Dichloropropene	75	6.427	6.427	(0.870)	85983	50.0000	41.5	
	60 Ethyl Methacrylate	69	6.511	6.511	(0.881)	102534	50.0000	54.3	
	61 1,1,2-Trichloroethane	83	6.616	6.616	(0.895)	60836	50.0000	54.9	
	62 Tetrachloroethene	166	6.658	6.658	(0.901)	126749	50.0000	56.3	
	63 1,3-Dichloropropane	76	6.757	6.757	(0.914)	103343	50.0000	47.4	
	64 2-Hexanone	43	6.820	6.820	(0.923)	244218	250.000	245	
	65 Dibromochloromethane	129	6.940	6.940	(0.939)	70212	50.0000	44.0	
	66 1,2-Dibromoethane	107	7.024	7.024	(0.950)	47426	50.0000	35.9	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.390	(1.000)	279057	50.0000		
	68 Chlorobenzene	112	7.411	7.411	(1.003)	263001	50.0000	51.4	
	69 1,1,1,2-Tetrachloroethane	131	7.489	7.489	(1.013)	84233	50.0000	50.8	
	70 Ethylbenzene	106	7.489	7.489	(1.013)	149721	50.0000	52.9	
	71 m&p-Xylene	106	7.589	7.589	(1.027)	373809	100.000	108	
	72 o-Xylene	106	7.850	7.850	(1.062)	179344	50.0000	54.0	
	73 Styrene	104	7.866	7.866	(1.064)	302761	50.0000	55.1	
	74 Bromoform	173	7.991	7.991	(0.899)	47047	50.0000	42.4	
	75 Isopropylbenzene	105	8.096	8.096	(1.096)	501396	50.0000	56.8	
$	76 4-Bromofluorobenzene	95	8.206	8.206	(1.110)	134158	50.0000	52.2	
	77 Bromobenzene	77	8.284	8.284	(1.121)	166610	50.0000	53.2	
	78 1,1,2,2-Tetrachloroethane	83	8.300	8.300	(0.934)	86158	50.0000	48.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.321	8.321	(1.126)	19610	50.0000	42.4(Q)	
81	1,2,3-Trichloropropane	110	8.331	8.331	(0.938)	24547	50.0000	47.6	
82	n-Propylbenzene	91	8.352	8.352	(0.940)	600886	50.0000	54.7	
83	2-Chlorotoluene	91	8.404	8.404	(0.946)	331919	50.0000	52.6	
84	1,3,5-Trimethylbenzene	105	8.462	8.462	(0.952)	404075	50.0000	52.9	
85	4-Chlorotoluene	126	8.478	8.478	(0.954)	121443	50.0000	52.2	
86	tert-Butylbenzene	119	8.645	8.645	(0.973)	382741	50.0000	53.1	
87	1,2,4-Trimethylbenzene	105	8.676	8.676	(0.976)	407397	50.0000	51.4	
88	sec-Butylbenzene	105	8.771	8.771	(0.987)	552237	50.0000	55.1	
89	1,3-Dichlorobenzene	146	8.839	8.839	(0.995)	234141	50.0000	51.4	
90	p-Isopropyltoluene	119	8.854	8.854	(0.996)	465527	50.0000	53.8	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.886	(1.000)	149973	50.0000		
92	1,4-Dichlorobenzene	146	8.896	8.896	(1.001)	228009	50.0000	48.6	
93	n-Butylbenzene	91	9.074	9.074	(1.021)	446327	50.0000	56.1	
94	1,2-Dichlorobenzene	146	9.090	9.090	(1.023)	208110	50.0000	49.2	
95	1,2-Dibromo-3-chloropropane	155	9.503	9.503	(1.069)	12151	50.0000	43.6	
96	1,2,4-Trichlorobenzene	180	9.911	9.911	(1.115)	171220	50.0000	52.7	
97	Hexachlorobutadiene	225	9.979	9.979	(1.123)	125175	50.0000	57.4	
98	Naphthalene	128	10.057	10.057	(1.132)	313530	50.0000	50.1	
99	1,2,3-Trichlorobenzene	180	10.172	10.172	(1.145)	151161	50.0000	50.0	
100	2,methyl-naphthalene	142	10.695	10.695	(1.204)	200017	50.0000	52.5	
101	1-methylnaphthalene	142	10.810	10.810	(1.217)	183193	50.0000	51.4	

QC Flag Legend

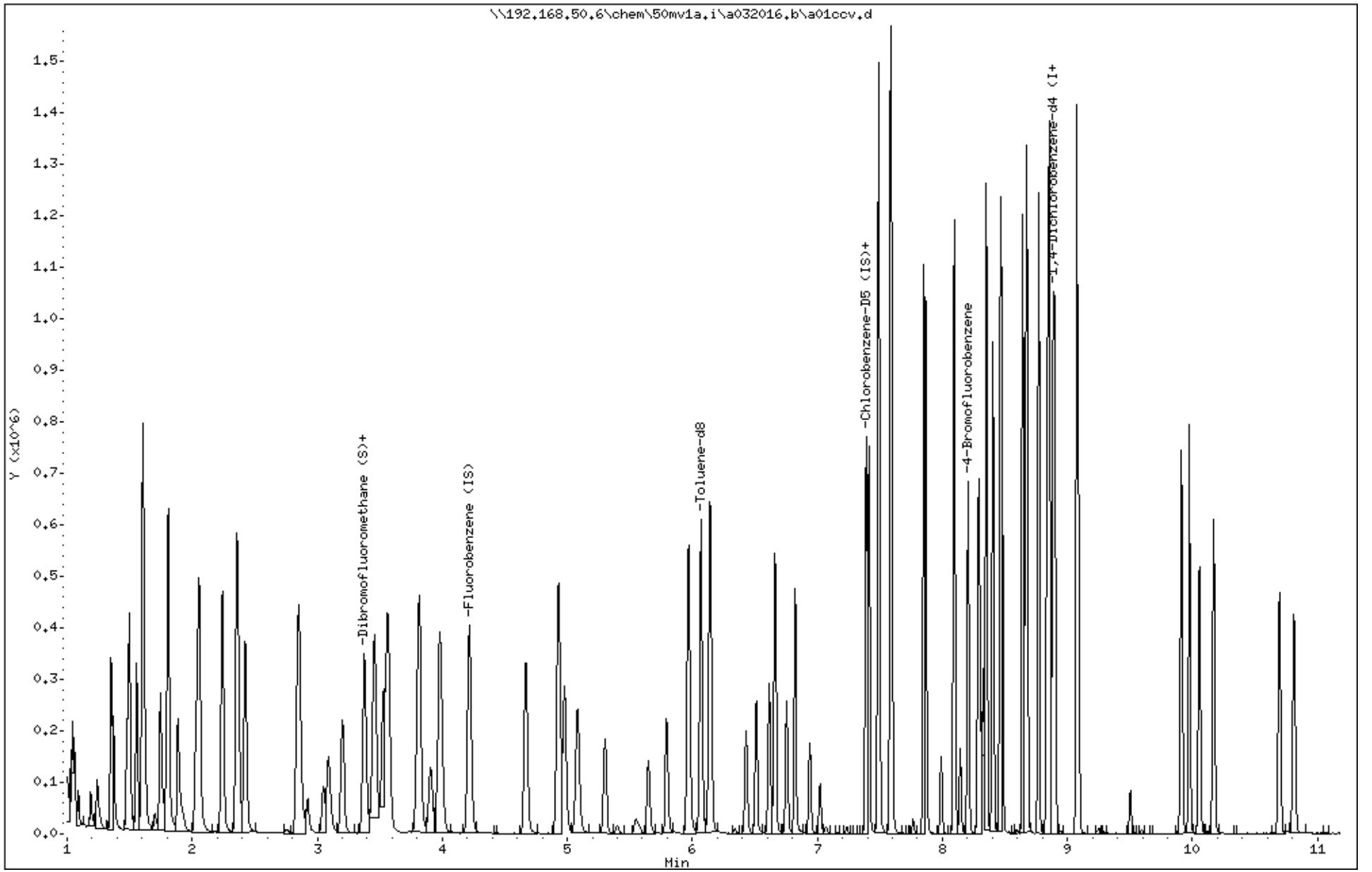
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a01ccv.d
Date : 20-MAR-2016 14:09
Client ID: 8260-CCV,117049:0
Sample Info: 8260-CCV,117049:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1a.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b/a01ccv.d
Injection Date: 20-MAR-2016 14:09
Instrument: 50mv1a.i
Lab Sample ID: 8260-CCV,117049:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d
Lab Smp Id: 8260-ICV,117048:0 Client Smp ID: 8260-ICV,117048:0
Inj Date : 15-MAR-2016 23:17
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-icv,117048:0
Misc Info : 87939
Comment   :
Method   : \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b8260_a_c.m
Meth Date : 16-Mar-2016 11:30 gmccreary Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 22 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-GRMXP

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.932	0.931	(0.220)	162798	57.1441	57.1	
2	Chloromethane	50	1.015	1.015	(0.240)	199766	46.8948	46.9	
3	Vinyl Chloride	62	1.063	1.062	(0.251)	171562	52.4464	52.4	
4	Bromomethane	94	1.209	1.208	(0.286)	77557	60.2474	60.2	
5	Chloroethane	64	1.256	1.255	(0.297)	84435	49.6839	49.7	
6	Trichlorofluoromethane	101	1.371	1.371	(0.324)	192086	56.1100	56.1	
7	Diethyl ether	74	1.497	1.496	(0.354)	48836	57.1952	57.2	
8	1,2-dichlorotrifluoroethane	67	1.512	1.512	(0.357)	126033	51.2985	51.3	
9	Acrolein	56	1.575	1.575	(0.372)	273664	1436.65	1440	
10	1,1,2trichlorotrifluoroethane	101	1.622	1.622	(0.383)	110057	53.2517	53.2	
11	1,1-Dichloroethene	96	1.627	1.627	(0.385)	90619	54.8922	54.9	
12	Acetone	43	1.643	1.642	(0.388)	96047	225.434	225	
13	Iodomethane	142	1.716	1.716	(0.406)	180023	97.5104	97.5	
14	Carbon Disulfide	76	1.763	1.763	(0.417)	288438	48.9252	48.9	
15	Methyl Acetate	43	1.810	1.810	(0.428)	55077	46.5404	46.5	
16	Acetonitrile	39	1.826	1.826	(0.432)	259039	56.7938	56.8	
17	allyl chloride	41	1.826	1.826	(0.432)	349068	111.352	111	
18	Methylene Chloride	84	1.905	1.904	(0.450)	94835	46.5720	46.6	
19	tert-Butyl Alcohol	59	1.946	1.946	(0.460)	15828	102.479	102(Q)	
20	Acrylonitrile	53	2.046	2.045	(0.483)	99398	203.458	203	
21	Methyl-tert-butyl ether	73	2.067	2.066	(0.488)	230591	50.8548	50.8	
22	1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	99268	52.7279	52.7	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	24 n-Hexane	57	2.260	2.260	(0.534)	177651	53.6545	53.6	
	25 Vinyl Acetate	43	2.375	2.375	(0.561)	706513	220.450	220	
	26 1,1-Dichloroethane	63	2.386	2.385	(0.564)	186193	51.0170	51.0	
	23 Ethyl Acetate	88	2.443	2.443	(0.577)	94443		(Q)	
	27 Chloroprene	53	2.443	2.443	(0.577)	195604	55.8377	55.8	
	28 2-Butanone	43	2.856	2.856	(0.675)	172030	264.346	264	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	105522	53.8254	53.8	
	30 2,2-Dichloropropane	77	2.872	2.872	(0.679)	157066	54.5080	54.5	
	31 Propionitrile	54	2.919	2.919	(0.690)	8762	43.7239	43.7(Q)	
	32 Methacrylonitrile	41	3.066	3.065	(0.724)	182009	204.382	204	
	33 Bromochloromethane	49	3.108	3.107	(0.734)	75201	51.8006	51.8	
	34 Tetrahydrofuran	42	3.123	3.128	(0.738)	20409	44.6982	44.7	
	35 Chloroform	83	3.217	3.217	(0.760)	180769	51.5411	51.5	
	36 isopropyl acetate	61	3.395	3.395	(0.802)	77271		(Q)	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	166881	52.7355	52.7	
$	38 Dibromofluoromethane (S)	113	3.395	3.395	(0.802)	87604	47.3024	47.3	
	39 Cyclohexane	56	3.474	3.473	(0.821)	183721	50.3603	50.4	
	150 n-butyl chloride	56	3.542	3.546	(0.837)	226812	51.3763	51.4	
	40 Carbon Tetrachloride	117	3.578	3.578	(0.846)	147317	56.1316	56.1	
	41 1,1-Dichloropropene	75	3.583	3.588	(0.847)	144558	54.4317	54.4	
	42 Benzene	78	3.834	3.834	(0.906)	386769	53.3701	53.4	
	43 1,2-Dichloroethane	62	3.923	3.923	(0.927)	129358	51.7317	51.7	
	45 2,2,4-Trimethylpentane	57	4.002	4.001	(0.946)	432417	54.6488	54.6	
	44 Isobutyl alcohol	43	3.950	3.996	(0.933)	786521	511.536	512(Q)	
*	46 Fluorobenzene (IS)	96	4.232	4.231	(1.000)	356643	50.0000		
	47 Trichloroethene	95	4.682	4.676	(1.106)	103662	54.3846	54.4	
	48 Methylcyclohexane	55	4.943	4.943	(1.168)	157493	54.5689	54.6	
	49 1,2-Dichloropropane	63	4.985	4.990	(1.178)	97762	52.0728	52.1	
	50 Dibromomethane	93	5.085	5.084	(1.201)	51939	51.5731	51.6	
	51 1,4-Dioxane	88	5.095	5.094	(1.204)	14223	963.529	964	
	52 Methyl methacrylate	69	5.100	5.100	(1.205)	48077	53.1476	53.1	
	53 Bromodichloromethane	83	5.309	5.309	(1.255)	127570	51.6225	51.6	
	54 2-Chloroethyl vinyl ether	63	5.660	5.659	(0.766)	45590	53.7105	53.7	
	55 cis-1,3-Dichloropropene	75	5.801	5.800	(0.785)	144876	54.4307	54.4	
	56 4-Methyl-2-Pentanone	43	5.979	5.978	(0.809)	344764	264.281	264	
$	57 Toluene-d8	98	6.078	6.078	(0.822)	329625	50.3188	50.3	
	58 Toluene	91	6.146	6.151	(0.832)	416657	51.8573	51.8	
	59 trans-1,3-Dichloropropene	75	6.434	6.433	(0.871)	118547	54.1089	54.1	
	60 Ethyl Methacrylate	69	6.512	6.512	(0.881)	366176	203.975	204	
	61 1,1,2-Trichloroethane	83	6.617	6.622	(0.895)	60730	54.2755	54.3	
	62 Tetrachloroethene	166	6.664	6.663	(0.902)	122353	55.9511	56.0	
	63 1,3-Dichloropropane	76	6.758	6.758	(0.914)	117137	53.5808	53.6	
	64 2-Hexanone	43	6.826	6.826	(0.924)	234690	252.883	253	
	65 Dibromochloromethane	129	6.941	6.941	(0.939)	89070	54.9639	55.0	
	66 1,2-Dibromoethane	107	7.025	7.024	(0.950)	72531	54.3411	54.3	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	252287	50.0000		
	68 Chlorobenzene	112	7.412	7.411	(1.003)	264838	51.1975	51.2	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.490	(1.013)	95210	55.9143	55.9	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	147834	52.0747	52.1	
	71 m&p-Xylene	106	7.590	7.589	(1.027)	378614	106.535	106	
	72 o-Xylene	106	7.851	7.851	(1.062)	185247	53.2504	53.2	
	73 Styrene	104	7.867	7.866	(1.064)	302958	52.5539	52.6	
	78 n-amyl acetate	70	7.992	8.000	(1.081)	240878		(Q)	
	74 Bromoform	173	7.992	7.992	(0.900)	55582	50.9360	50.9	

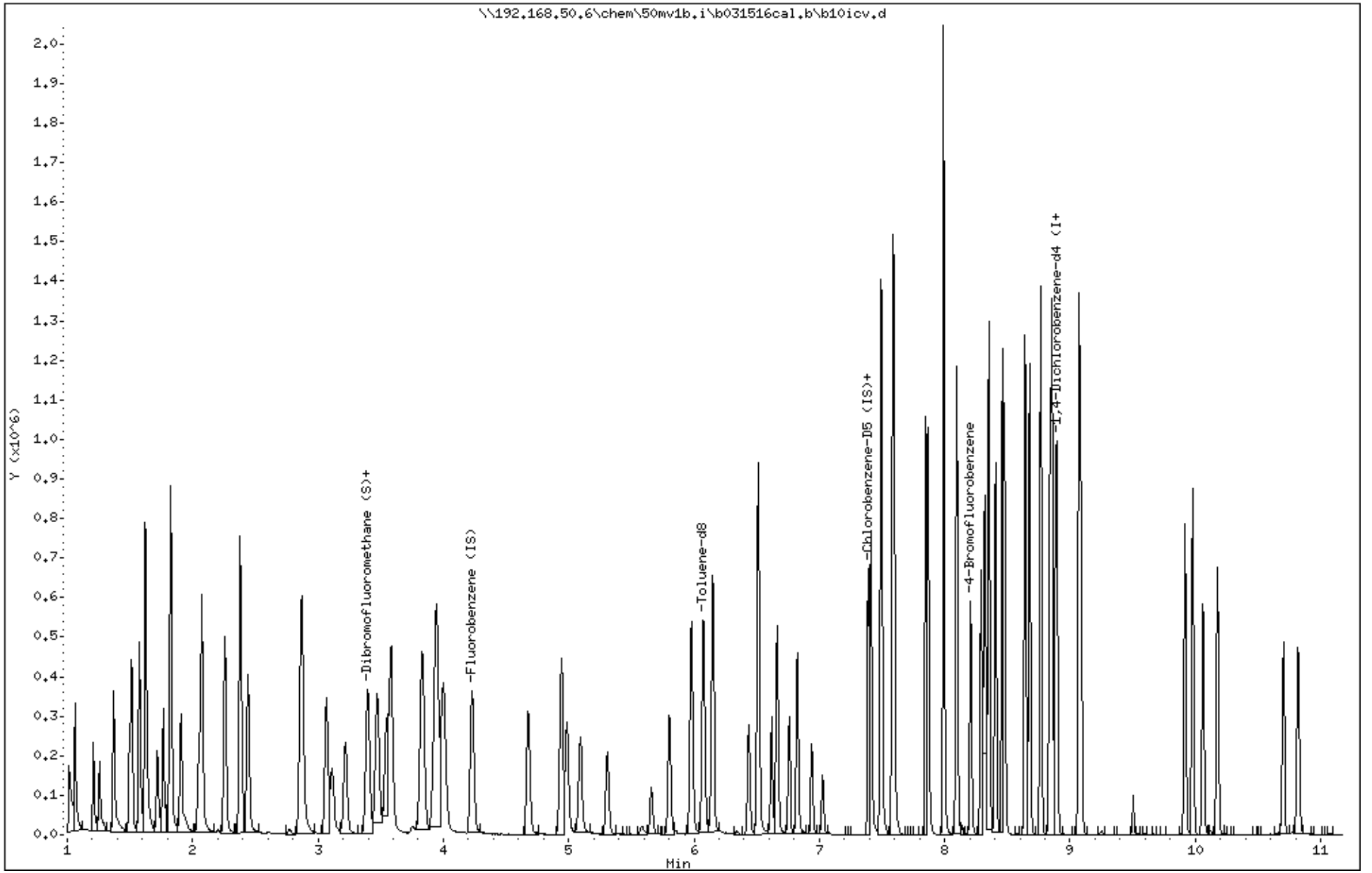
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	75 Isopropylbenzene	105	8.097	8.096	(1.096)	520597	53.1053	53.1	
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	119064	51.9882	52.0	
	77 Bromobenzene	77	8.285	8.285	(1.121)	167285	50.9308	50.9	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.300	(0.935)	85770	52.6633	52.7	
	80 trans-1,4-Dichloro-2-butene	53	8.317	8.316	(1.125)	104226	215.286	215(Q)	
	81 1,2,3-Trichloropropane	110	8.327	8.332	(0.938)	24882	54.3383	54.3(Q)	
	82 n-Propylbenzene	91	8.353	8.353	(0.941)	643214	58.1374	58.1	
	83 2-Chlorotoluene	91	8.406	8.405	(0.946)	340782	53.8475	53.8	
	84 1,3,5-Trimethylbenzene	105	8.463	8.463	(0.953)	403076	53.5618	53.6	
	85 4-Chlorotoluene	126	8.479	8.478	(0.955)	121054	53.8010	53.8	
	86 tert-Butylbenzene	119	8.641	8.646	(0.973)	390384	53.9460	53.9	
	87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.977)	412705	52.7032	52.7	
	88 sec-Butylbenzene	105	8.767	8.766	(0.987)	616316	60.9360	60.9	
	89 1,3-Dichlorobenzene	146	8.840	8.839	(0.995)	242389	51.9388	51.9	
	90 p-Isopropyltoluene	119	8.855	8.855	(0.997)	474165	53.0515	53.0	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.886	(1.000)	135589	50.0000	(Q)	
	92 1,4-Dichlorobenzene	146	8.897	8.897	(1.002)	240844	51.4278	51.4	
	93 n-Butylbenzene	91	9.075	9.075	(1.022)	449371	55.6114	55.6	
	94 1,2-Dichlorobenzene	146	9.091	9.090	(1.024)	218659	53.2913	53.3	
	95 1,2-Dibromo-3-chloropropane	155	9.504	9.509	(1.070)	14823	56.9177	56.9	
	96 1,2,4-Trichlorobenzene	180	9.917	9.922	(1.117)	180037	50.9161	50.9	
	97 Hexachlorobutadiene	225	9.980	9.985	(1.124)	133940	54.4705	54.5	
	98 Naphthalene	128	10.058	10.063	(1.132)	347284	50.1147	50.1	
	99 1,2,3-Trichlorobenzene	180	10.179	10.178	(1.146)	168033	49.5177	49.5	
	100 2,methyl-naphthalene	142	10.702	10.706	(1.205)	199606	42.9654	43.0	
	101 1-methylnaphthalene	142	10.817	10.821	(1.218)	208324	49.6538	49.6	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d
Date : 15-MAR-2016 23:17
Client ID: 8260-ICV,117048:0
Sample Info: 8260-ICV,117048:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

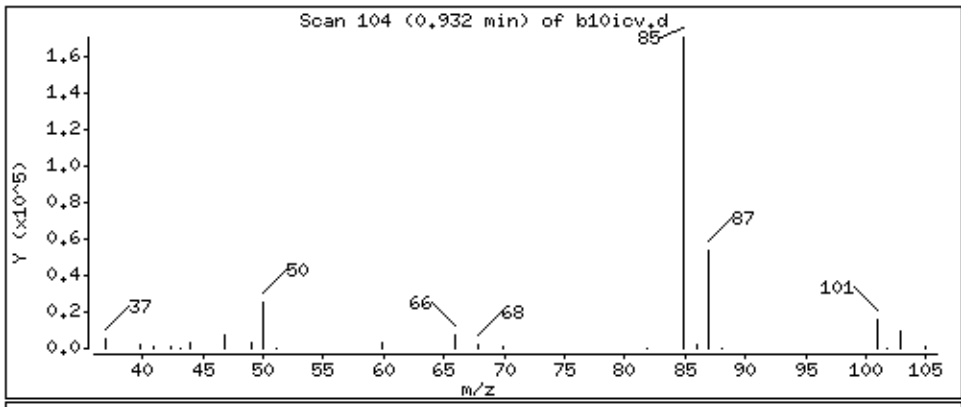
Operator: grm

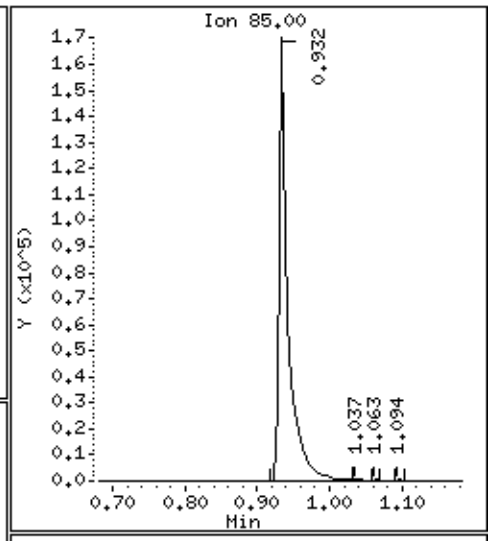
Column phase: DB-624

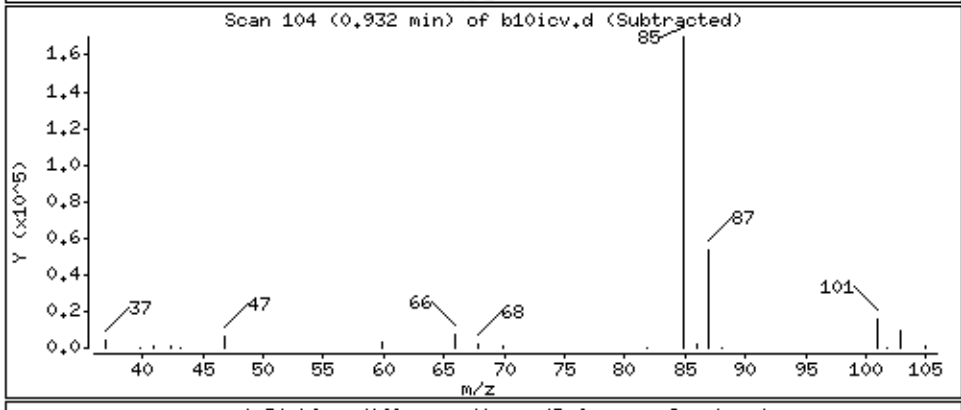
Column diameter: 0.18

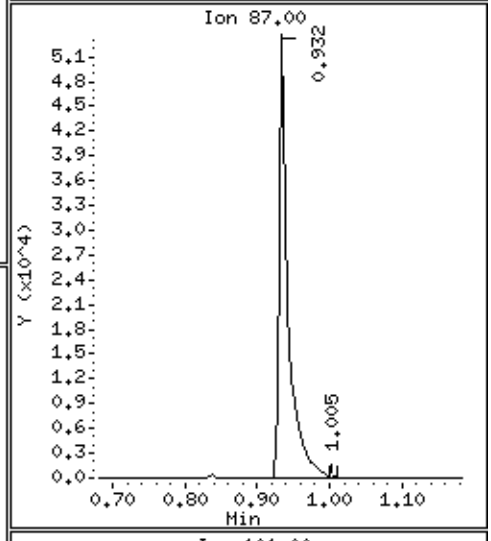
1 Dichlorodifluoromethane

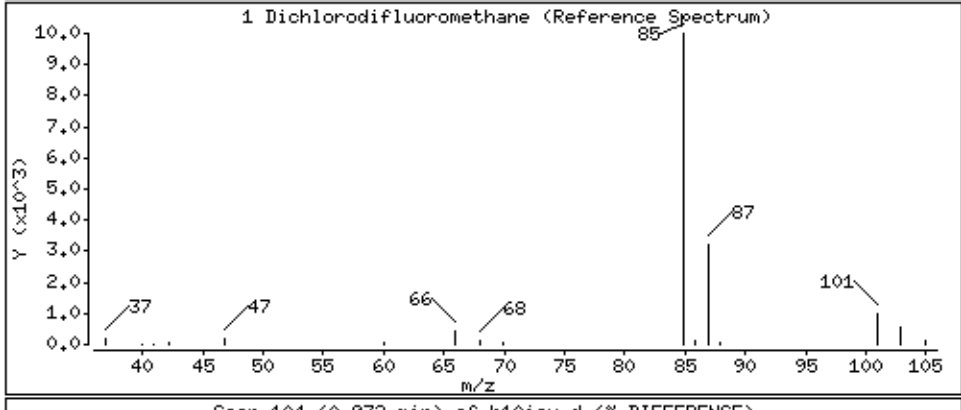
Concentration: 57.1 ppb

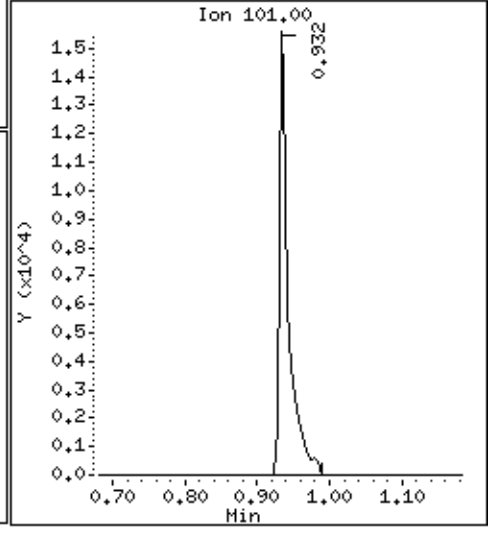


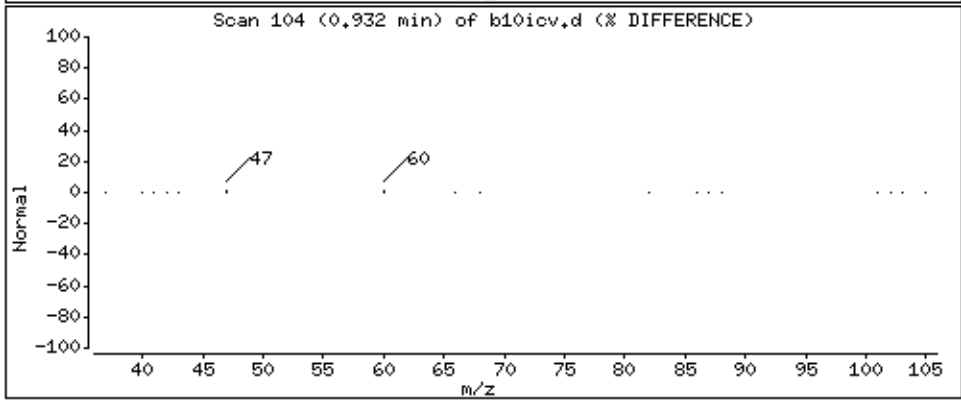












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

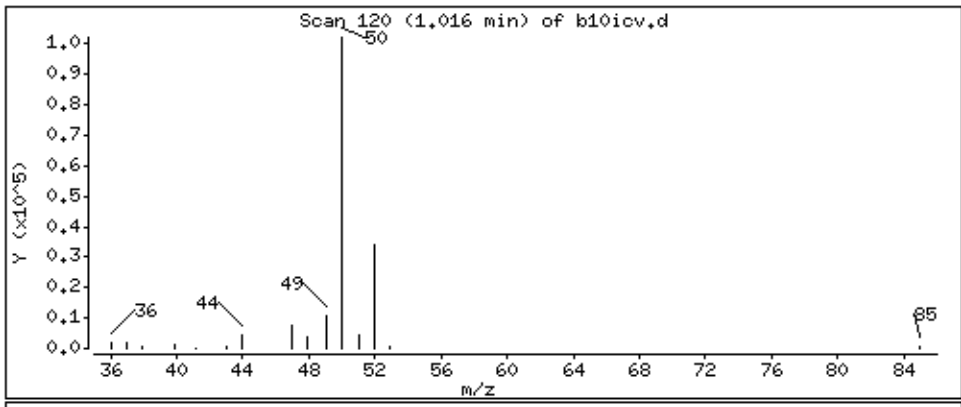
Operator: grm

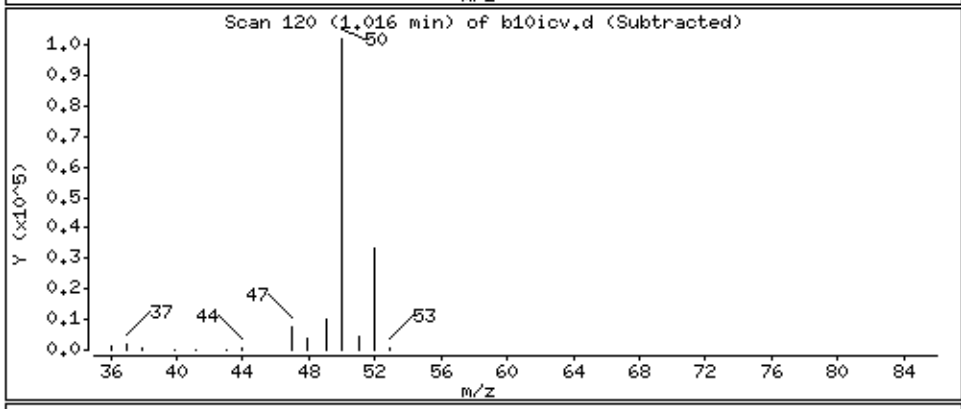
Column phase: DB-624

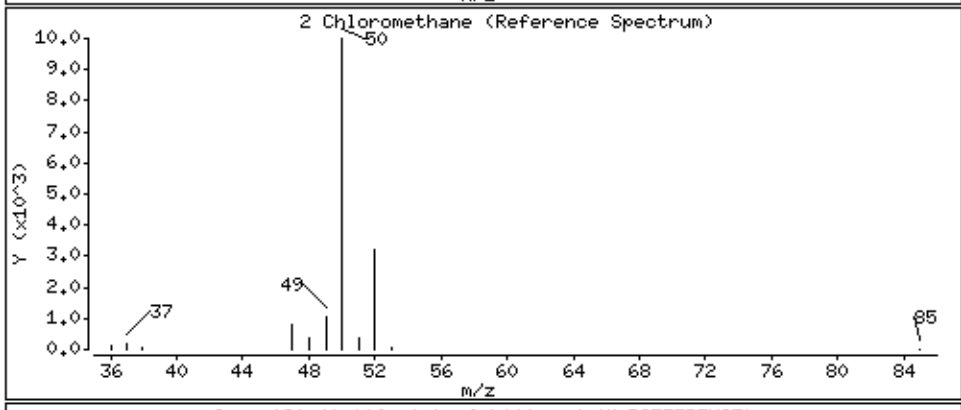
Column diameter: 0.18

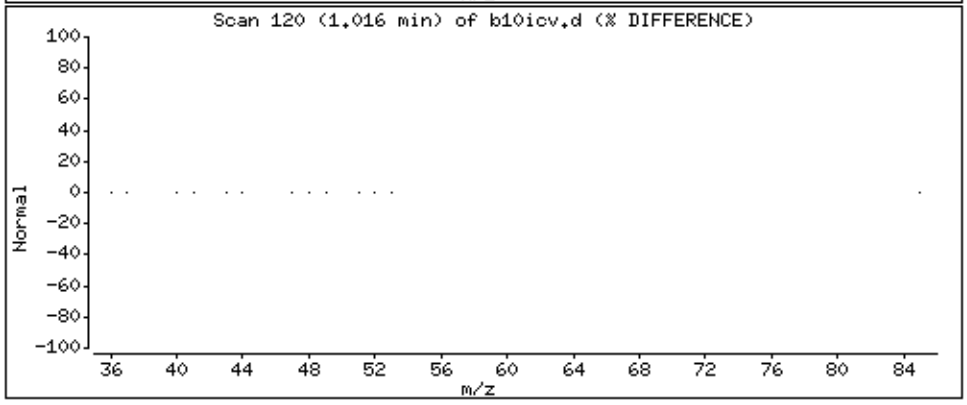
2 Chloromethane

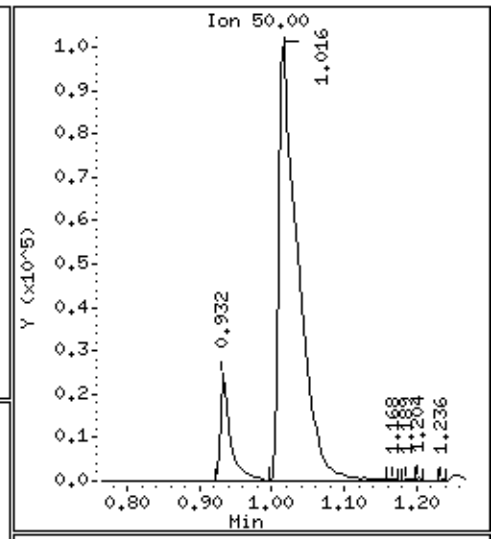
Concentration: 46.9 ppb

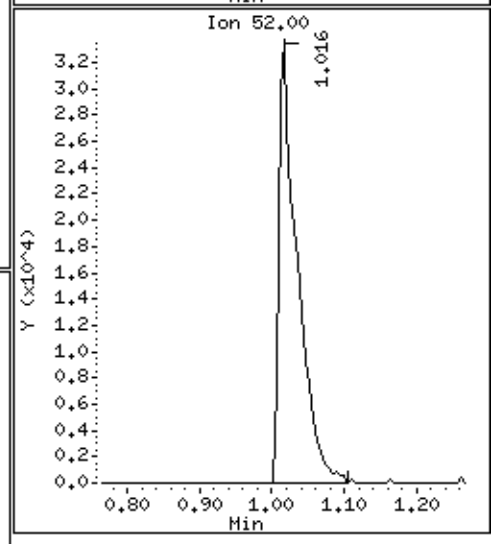












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

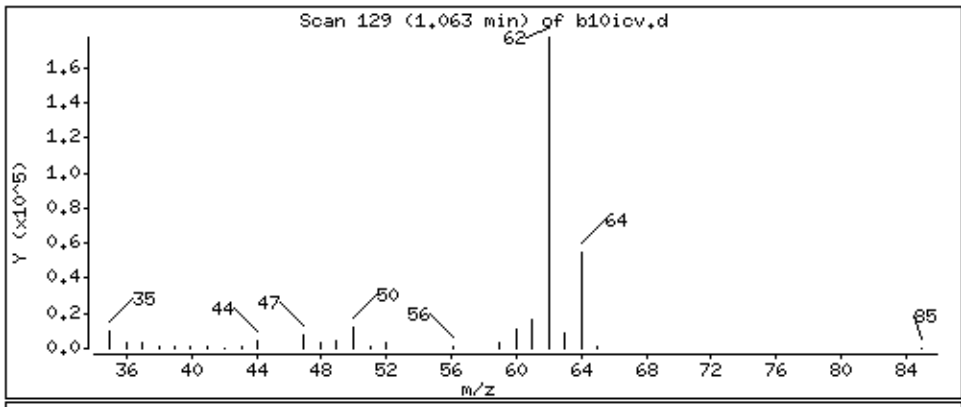
Operator: grm

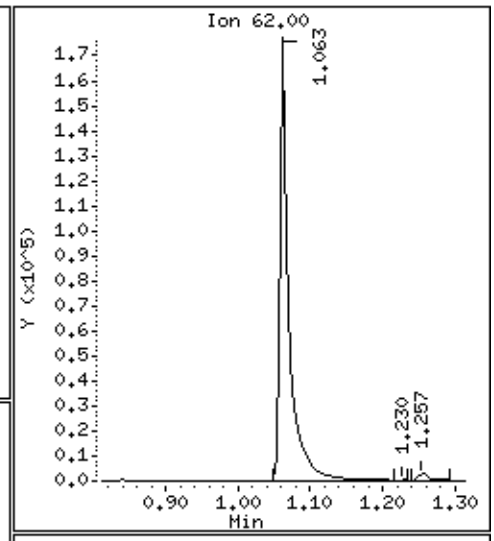
Column phase: DB-624

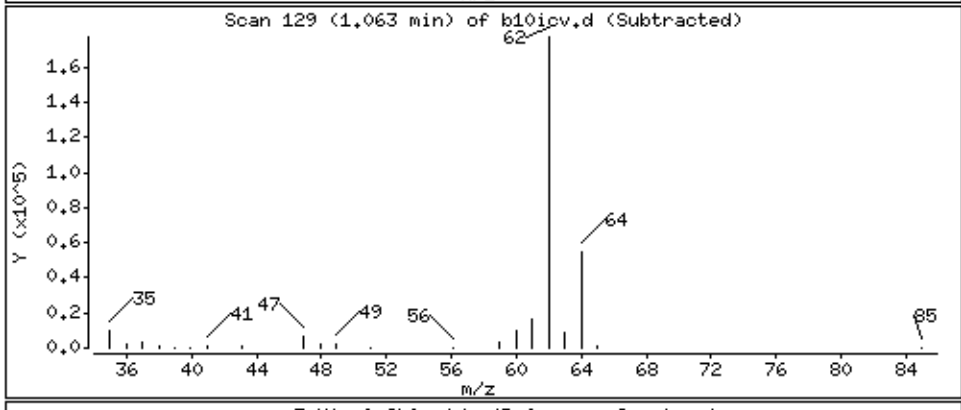
Column diameter: 0.18

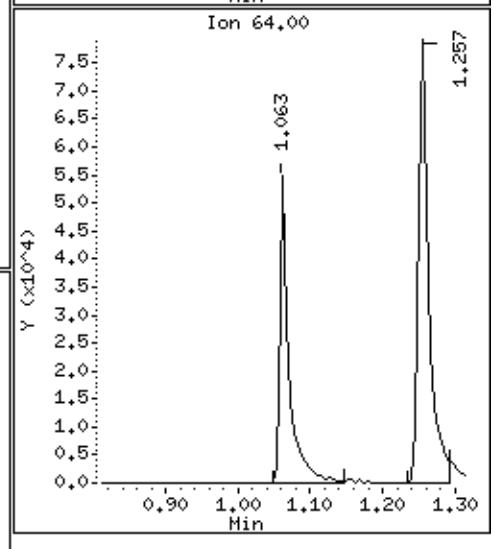
3 Vinyl Chloride

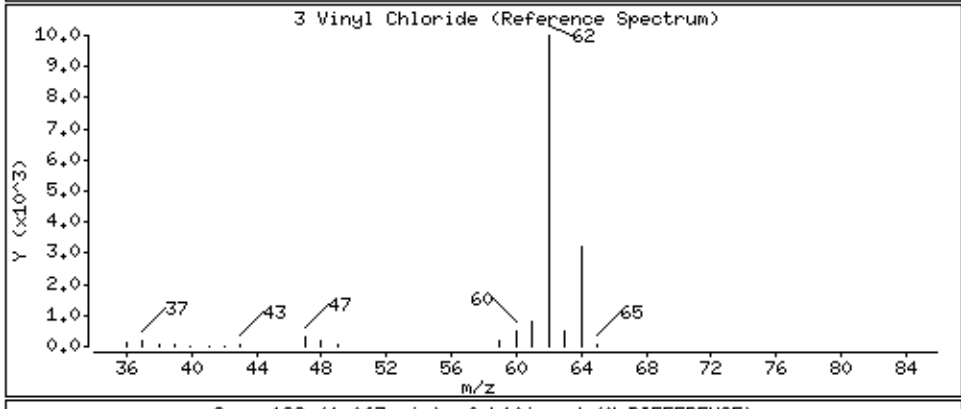
Concentration: 52.4 ppb

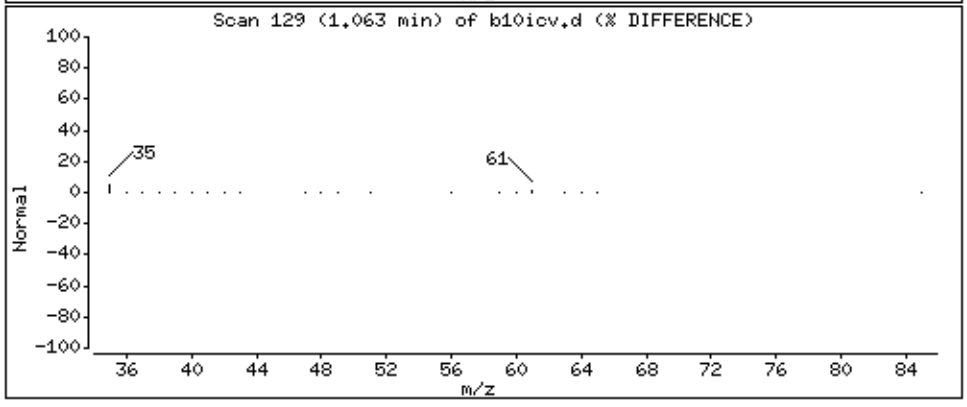












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

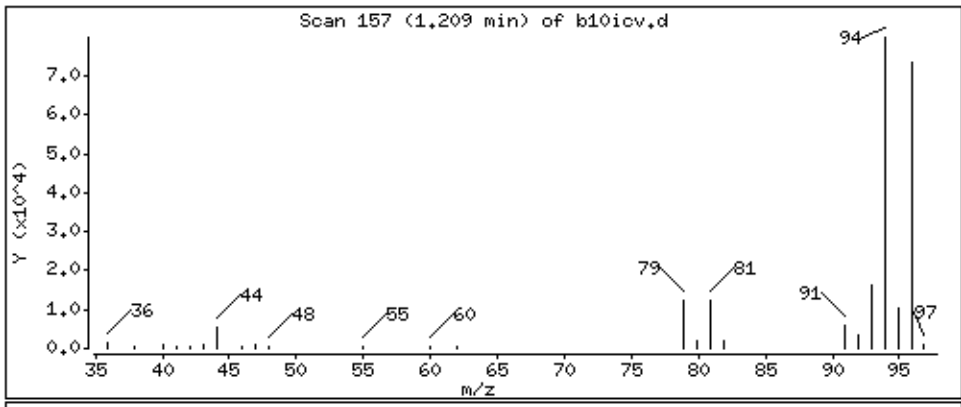
Operator: grm

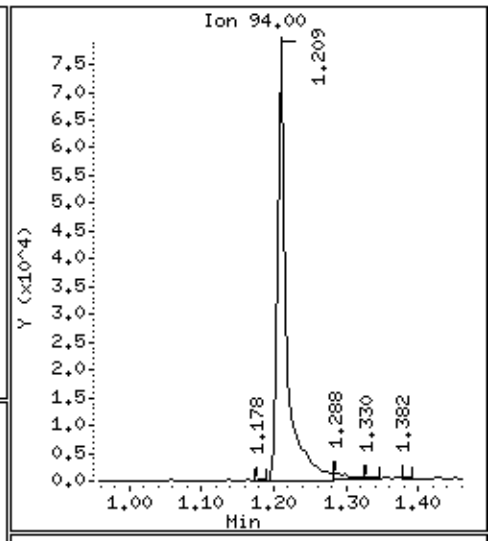
Column phase: DB-624

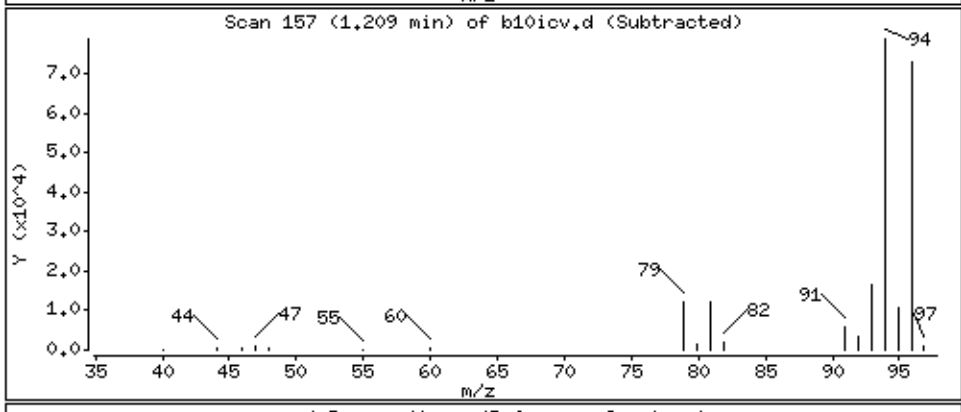
Column diameter: 0.18

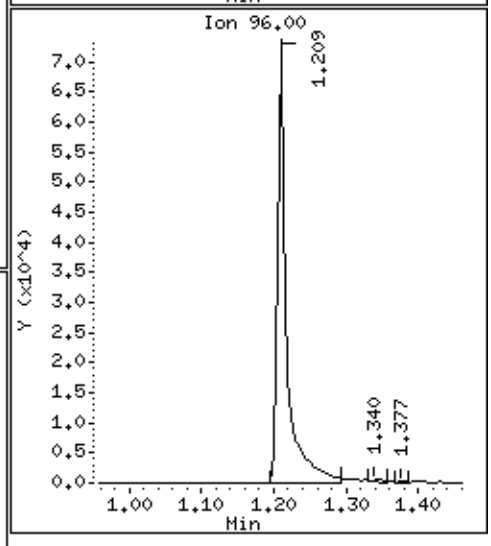
4 Bromomethane

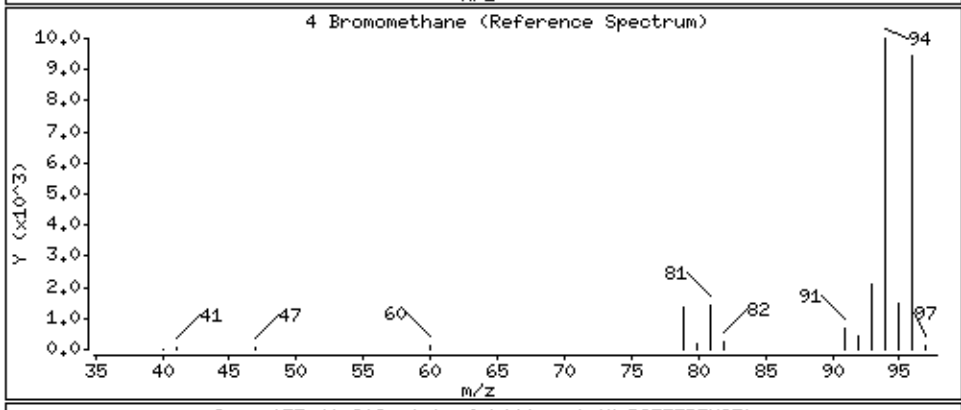
Concentration: 60.2 ppb

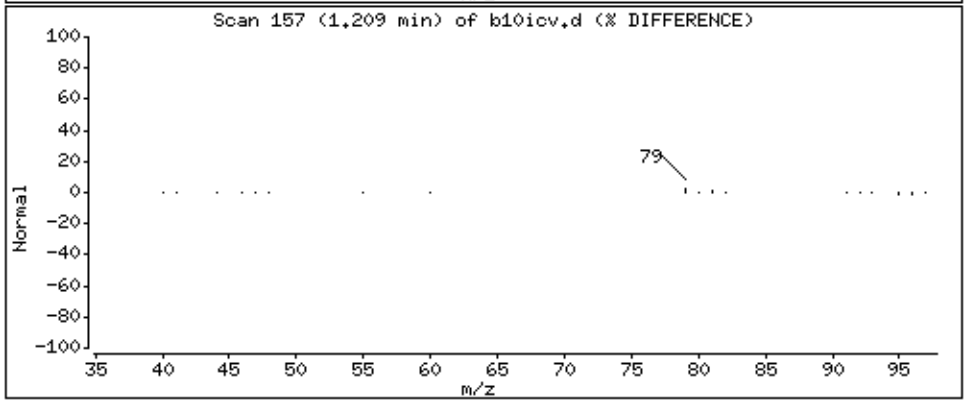












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

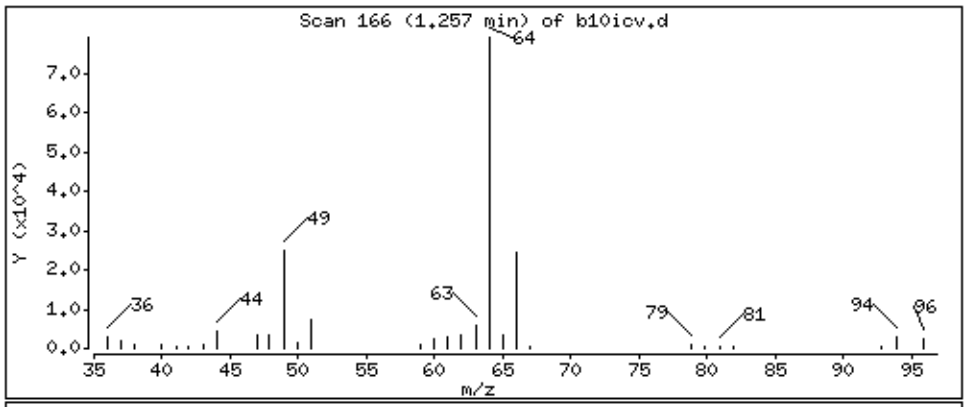
Operator: grm

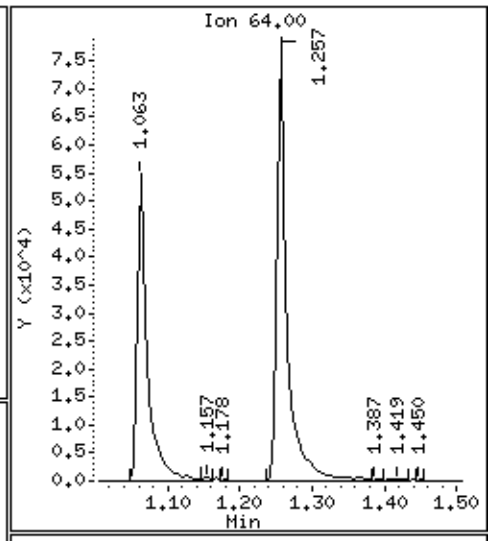
Column phase: DB-624

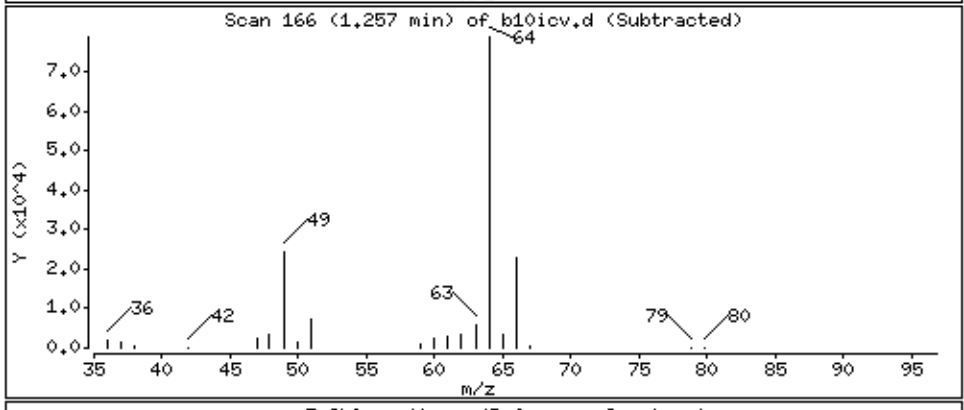
Column diameter: 0.18

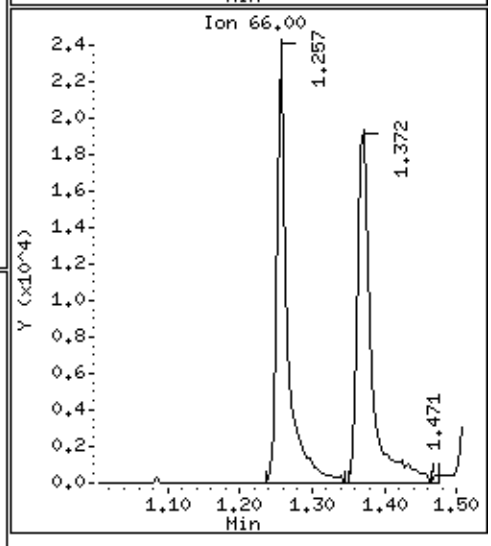
5 Chloroethane

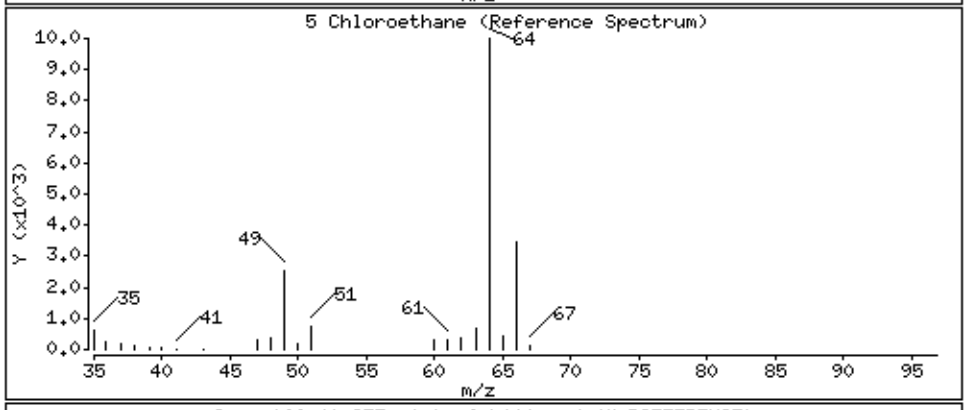
Concentration: 49.7 ppb

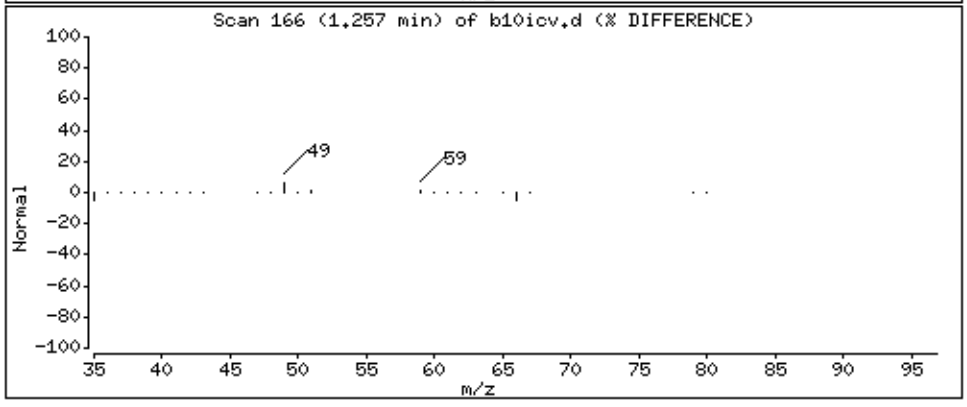












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

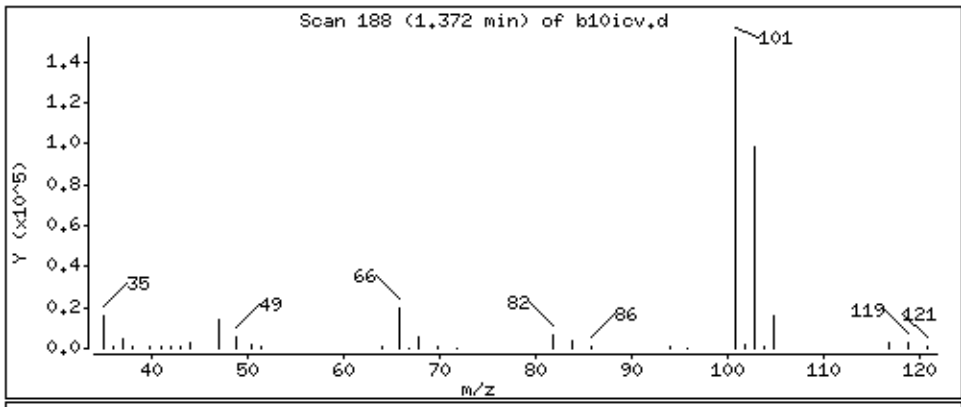
Operator: grm

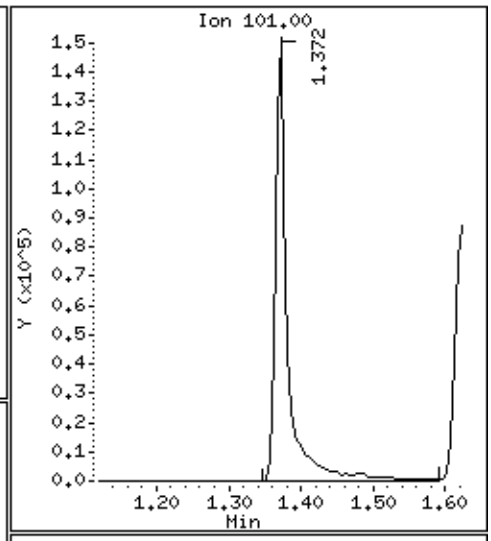
Column phase: DB-624

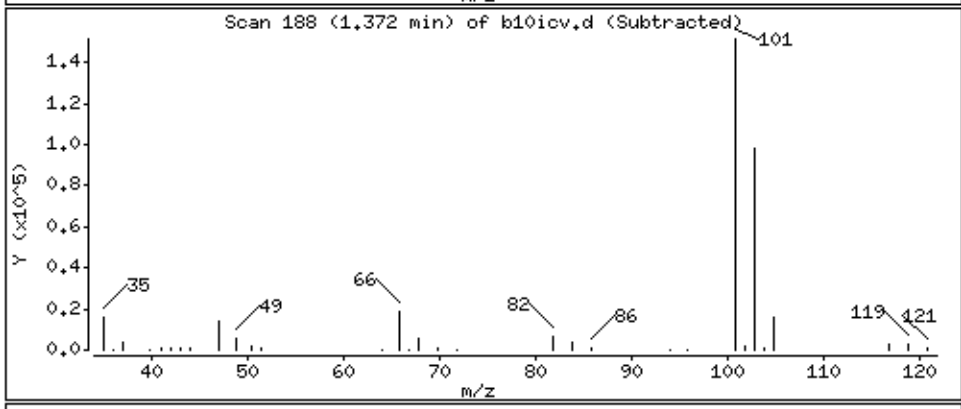
Column diameter: 0.18

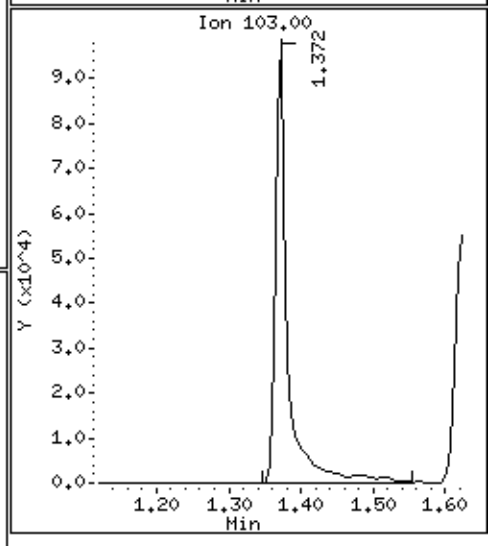
6 Trichlorofluoromethane

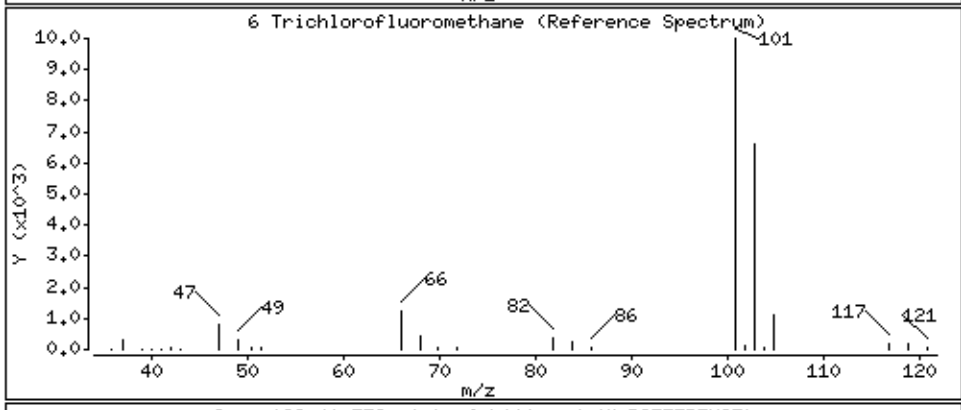
Concentration: 56.1 ppb

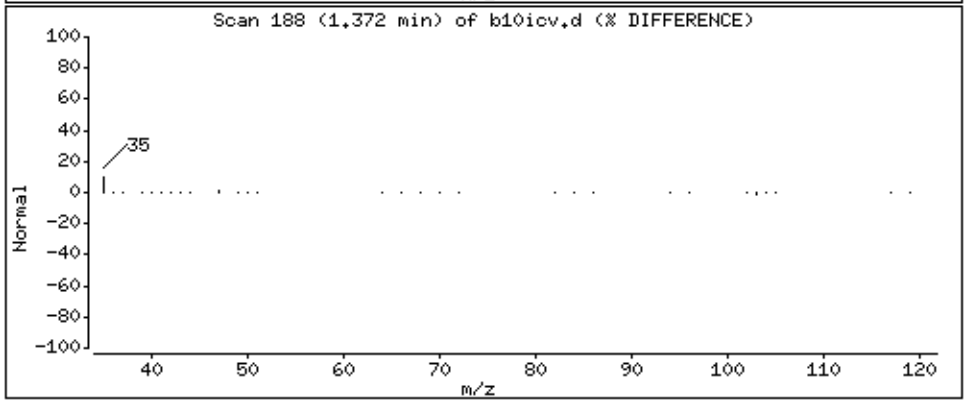












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 11

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

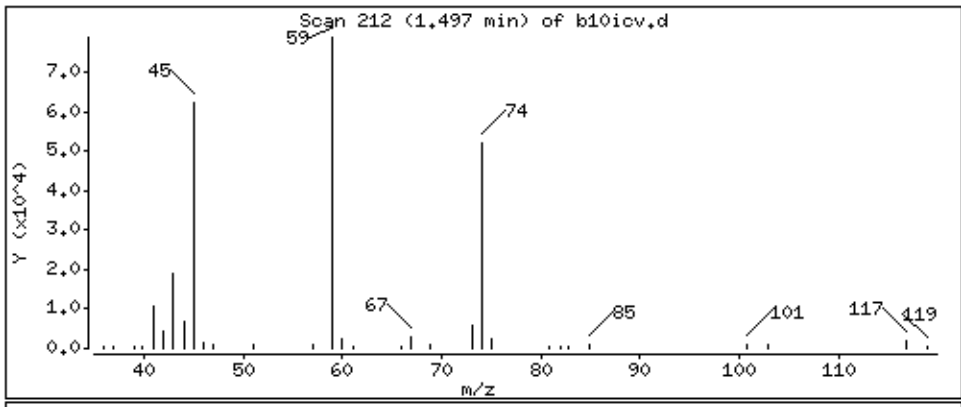
Operator: grm

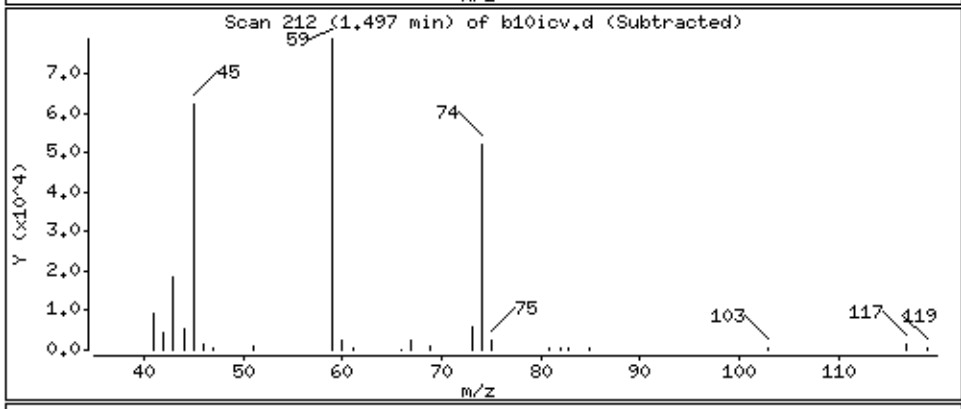
Column phase: DB-624

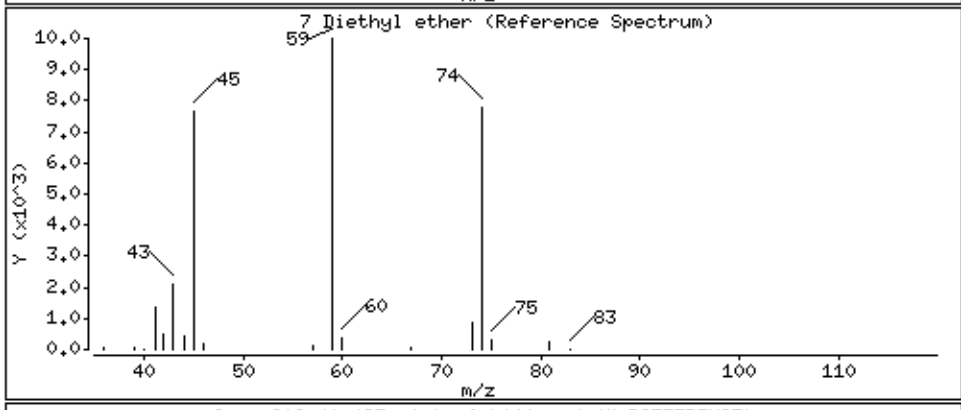
Column diameter: 0.18

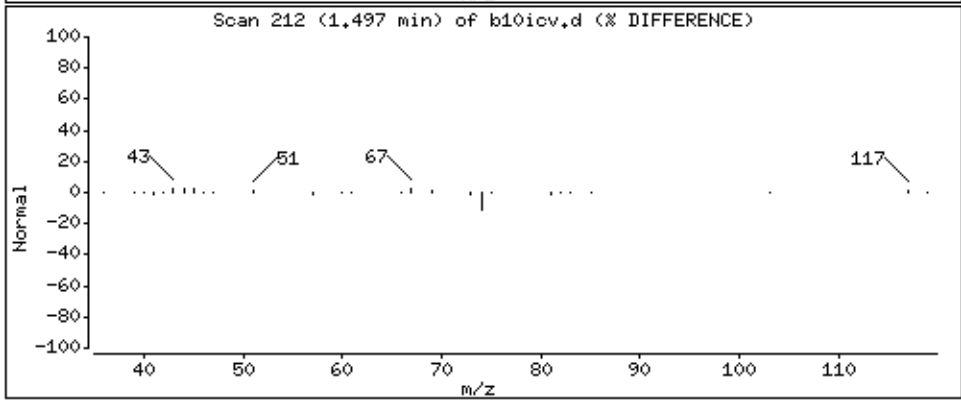
7 Diethyl ether

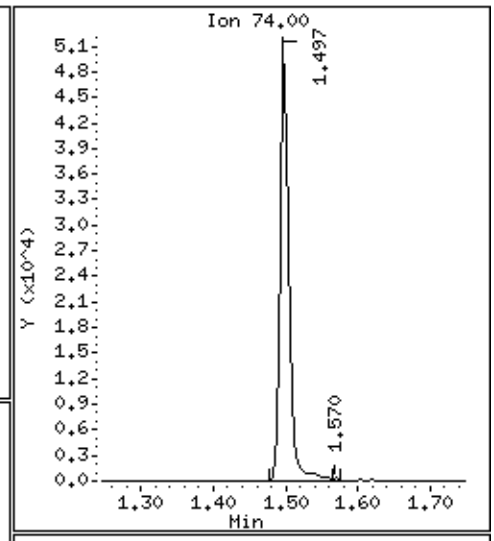
Concentration: 57.2 ppb

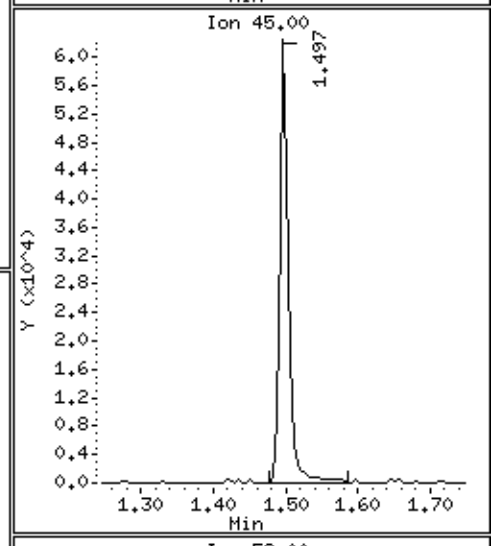


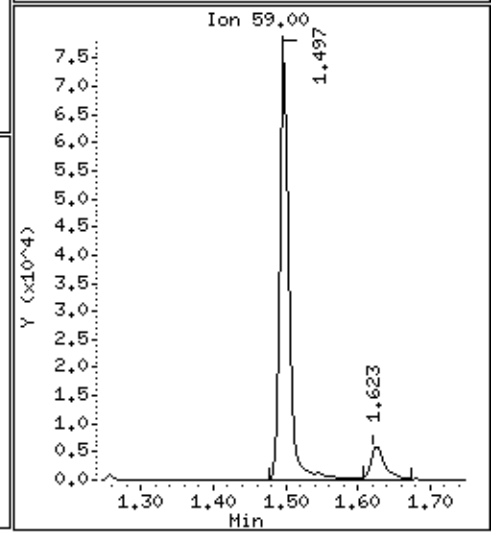












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

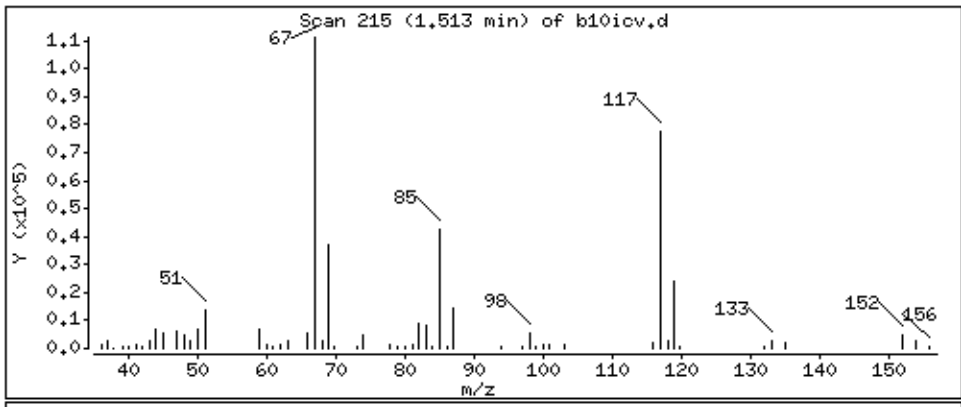
Operator: grm

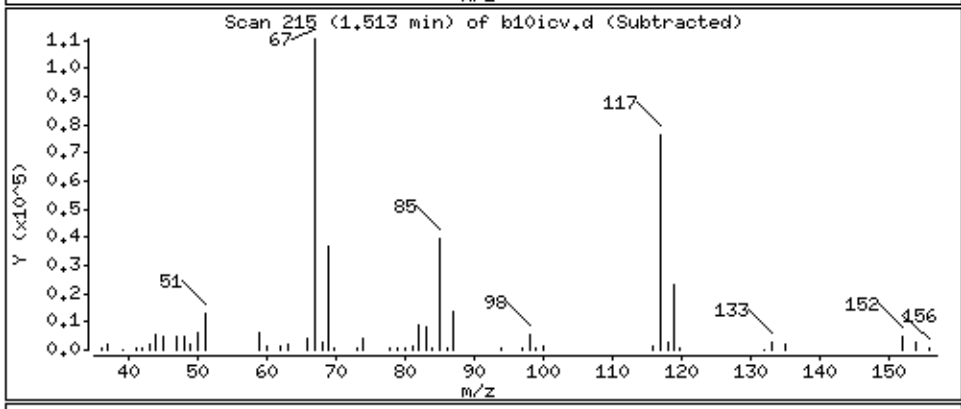
Column phase: DB-624

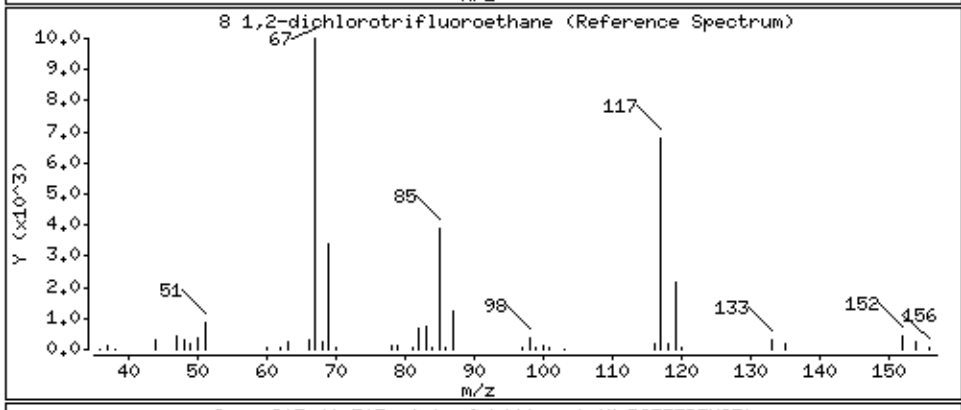
Column diameter: 0.18

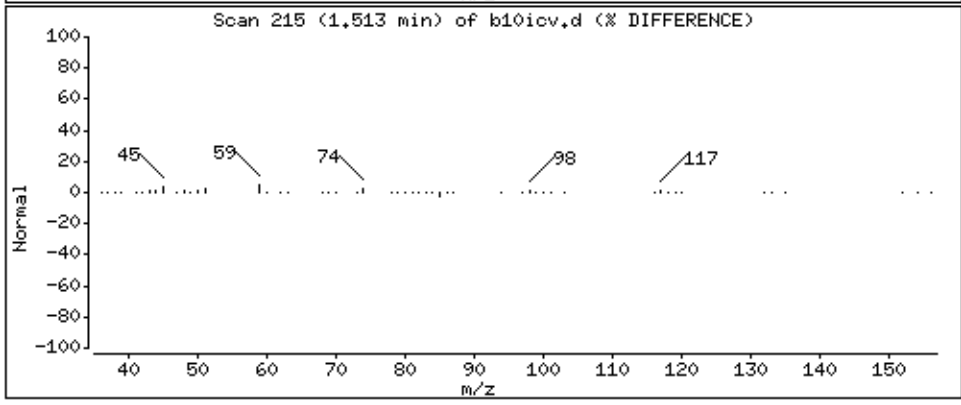
8 1,2-dichlorotrifluoroethane

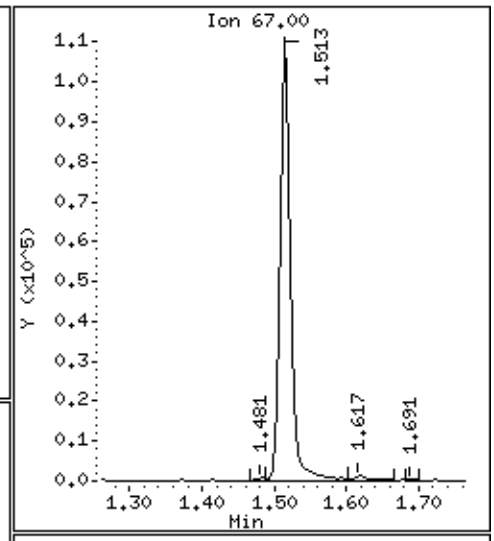
Concentration: 51.3 ppb

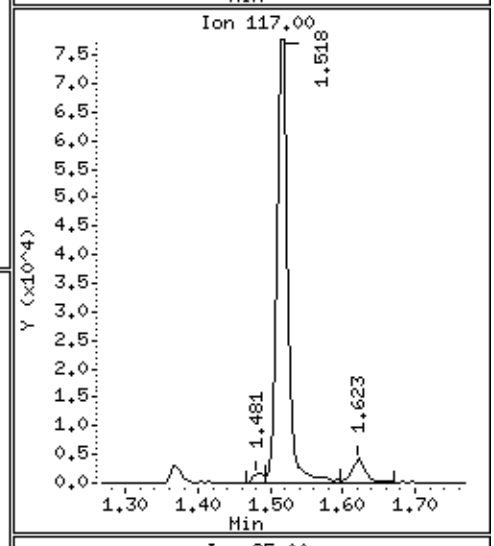


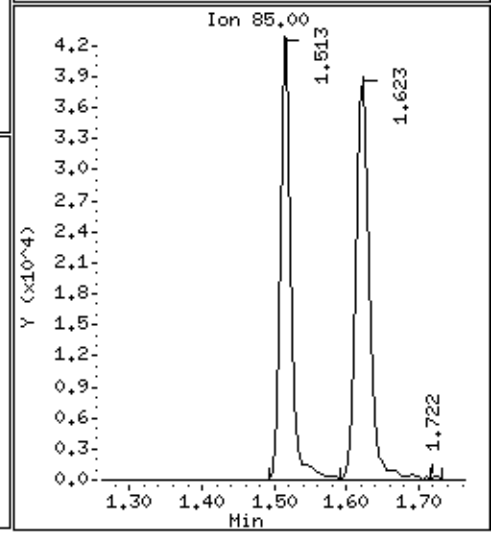












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

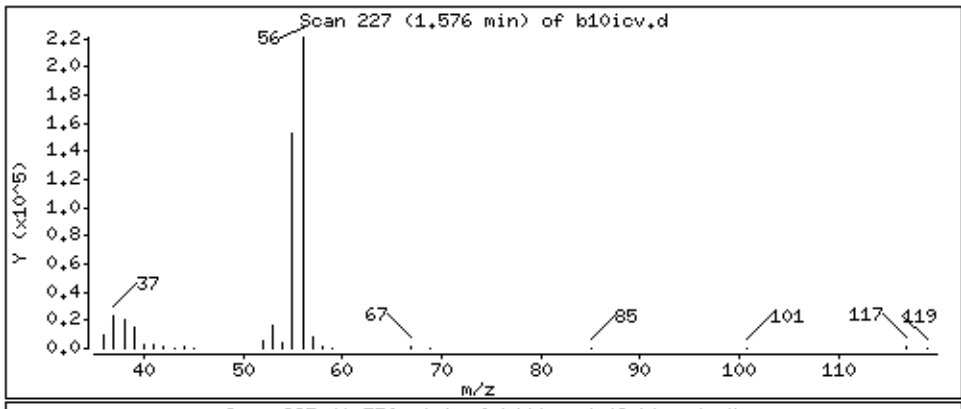
Operator: grm

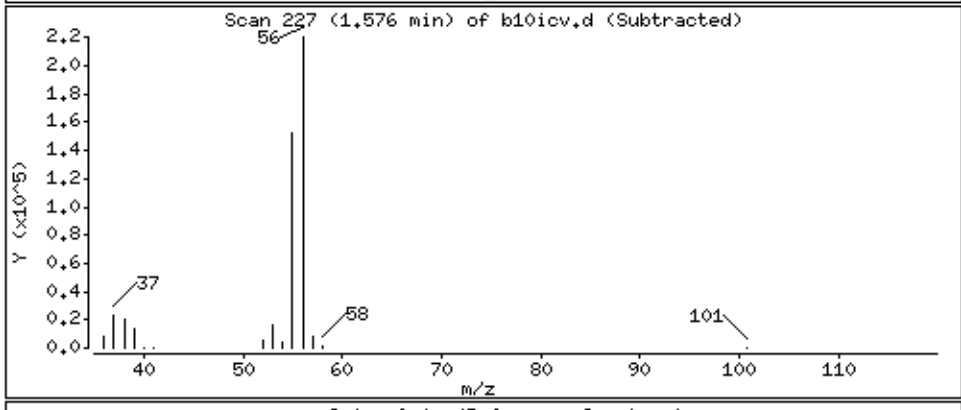
Column phase: DB-624

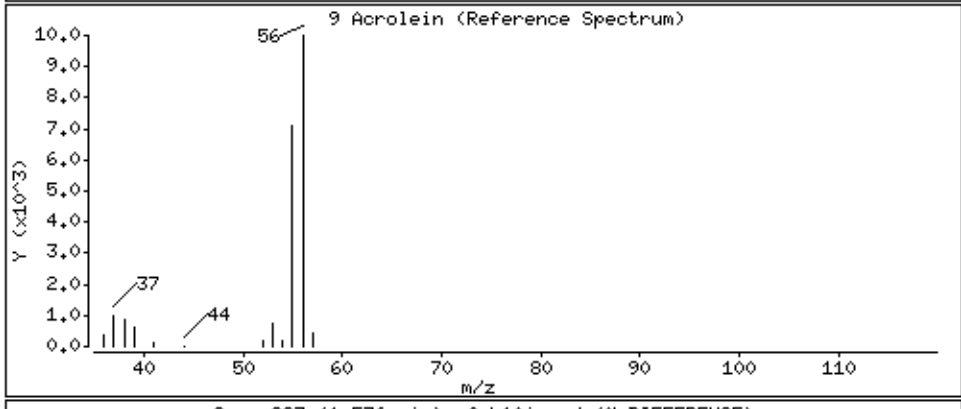
Column diameter: 0.18

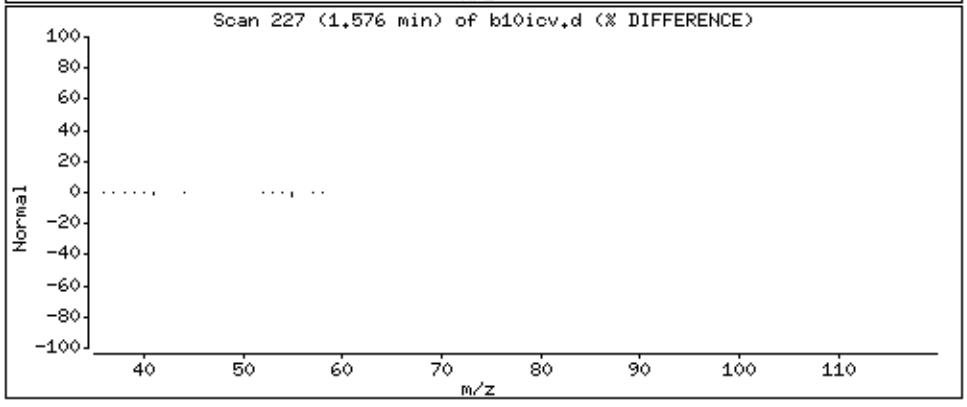
9 Acrolein

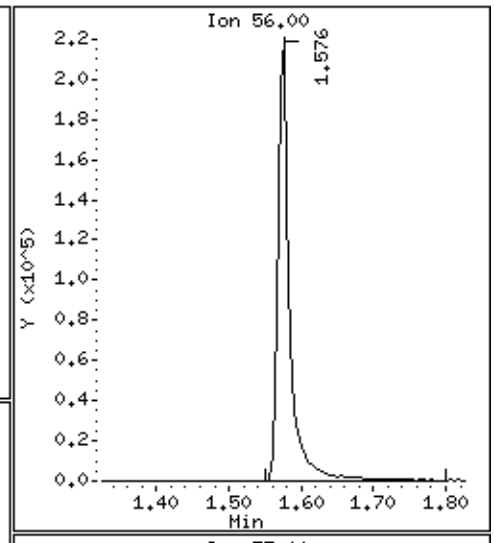
Concentration: 1440 ppb

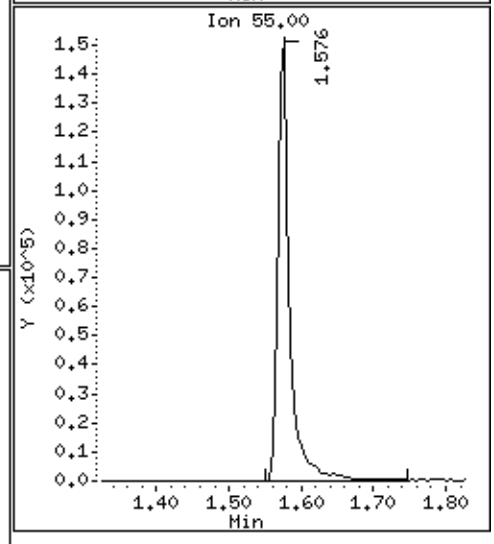












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

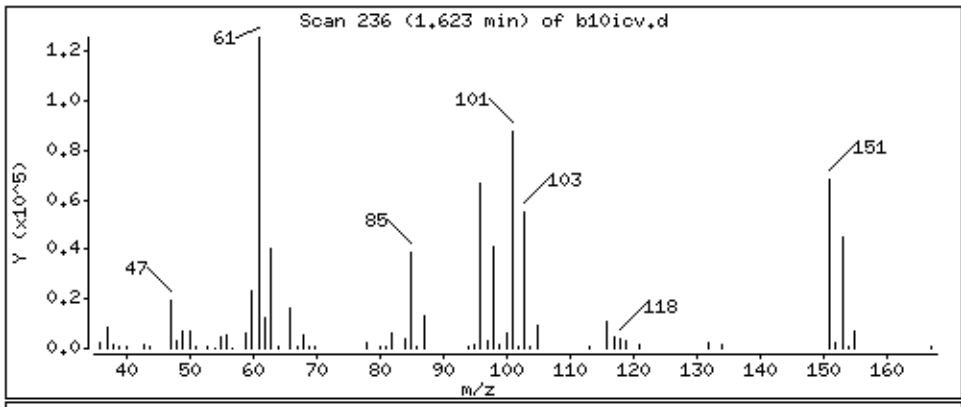
Operator: grm

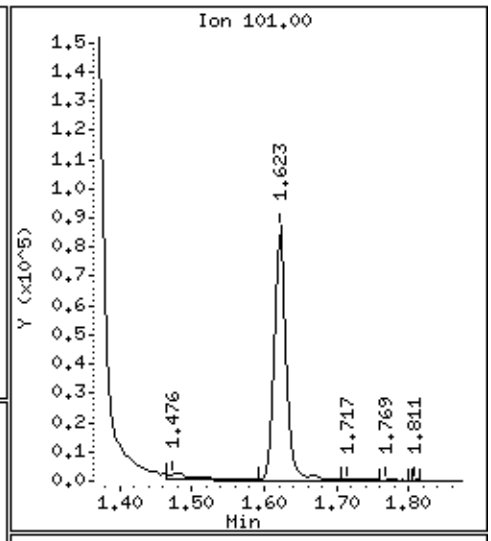
Column phase: DB-624

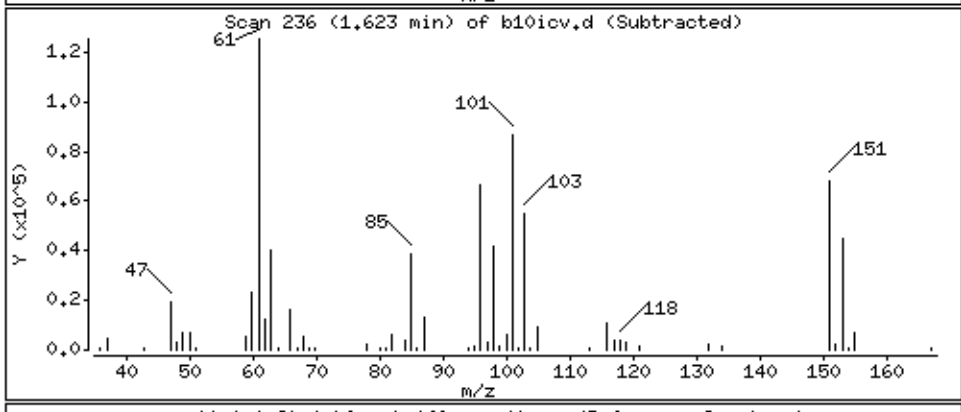
Column diameter: 0.18

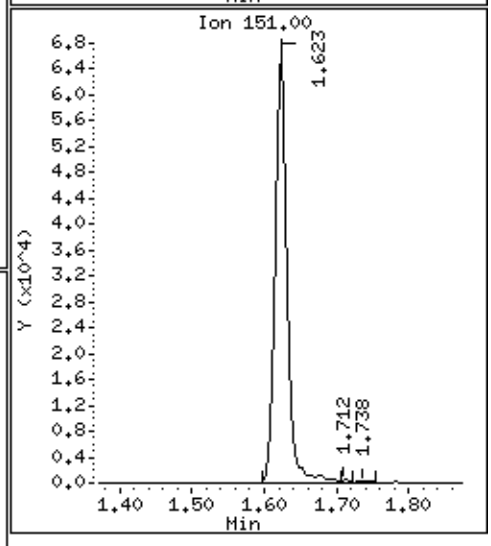
10 1,1,2trichlorotrifluoroethane

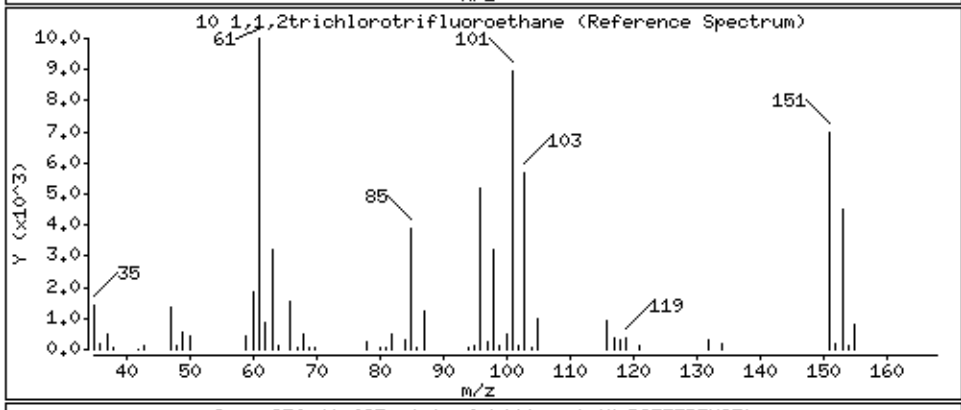
Concentration: 53.2 ppb

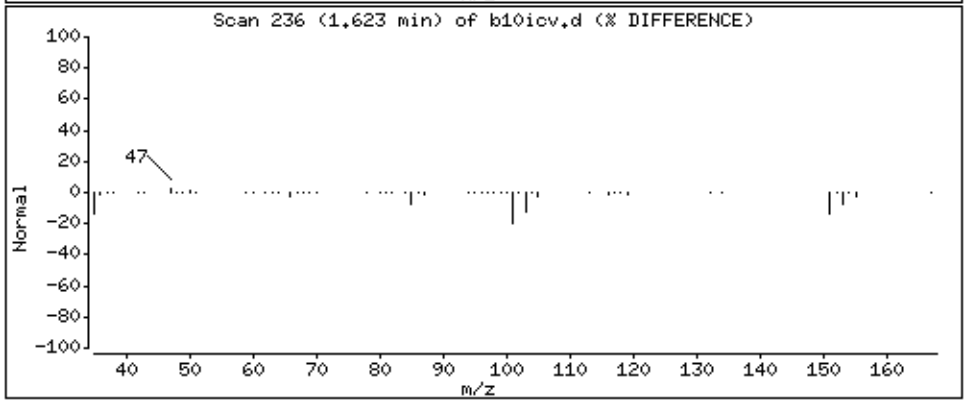












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

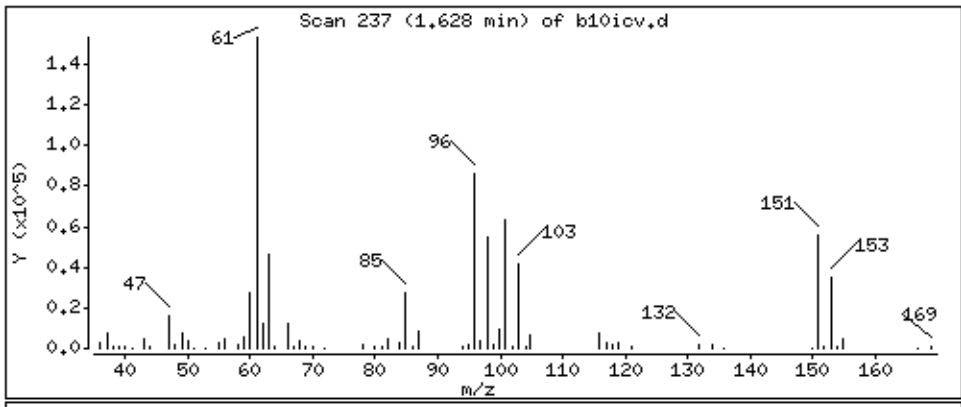
Operator: grm

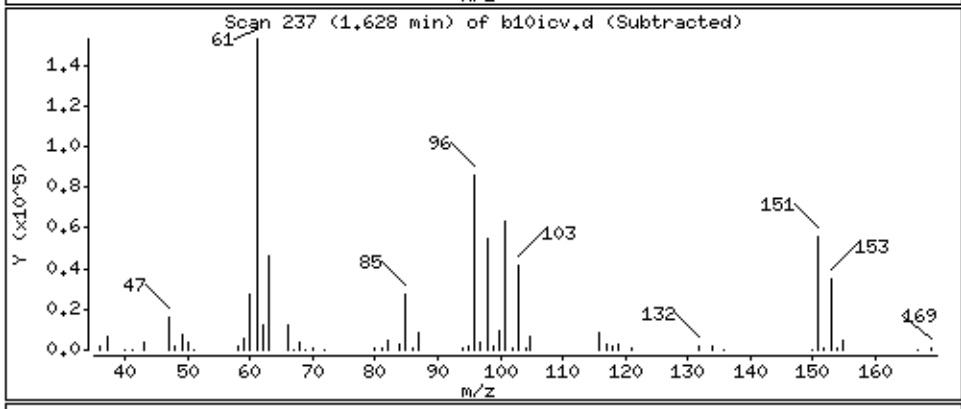
Column phase: DB-624

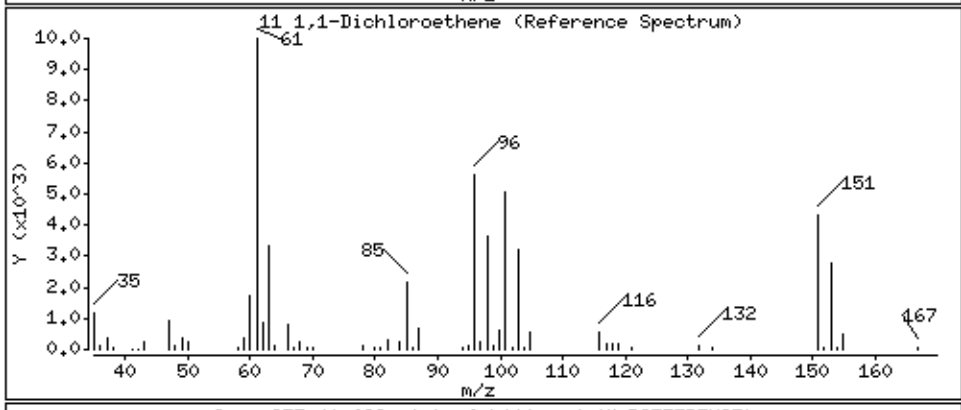
Column diameter: 0.18

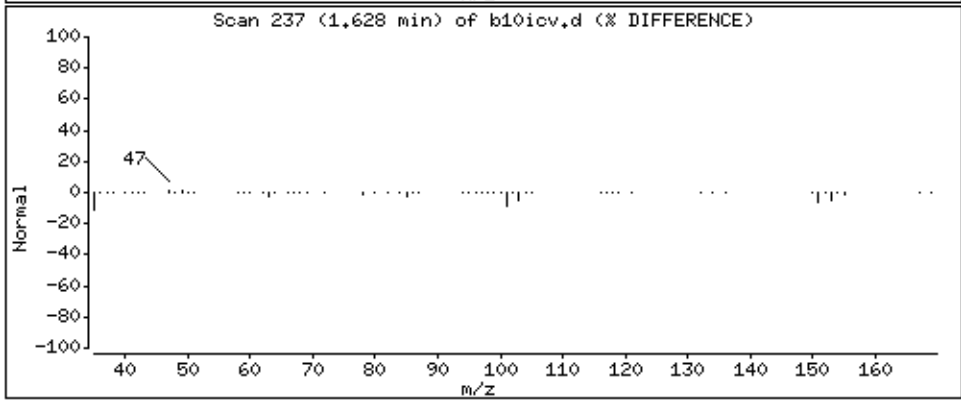
11 1,1-Dichloroethene

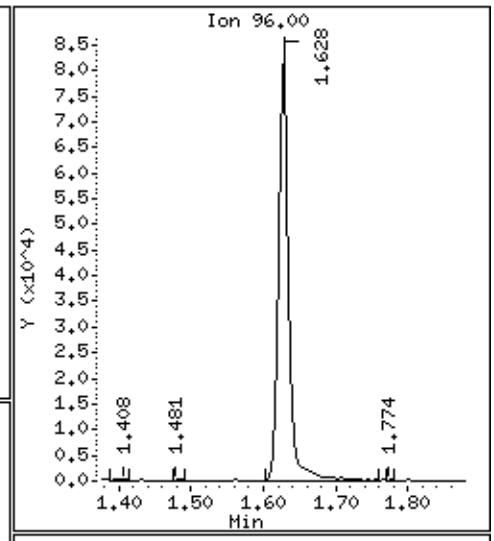
Concentration: 54.9 ppb

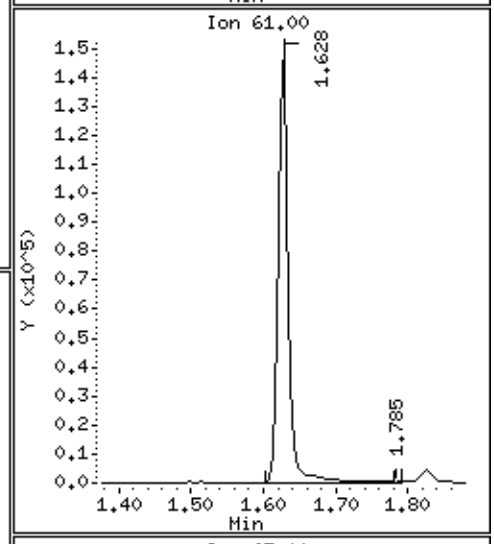


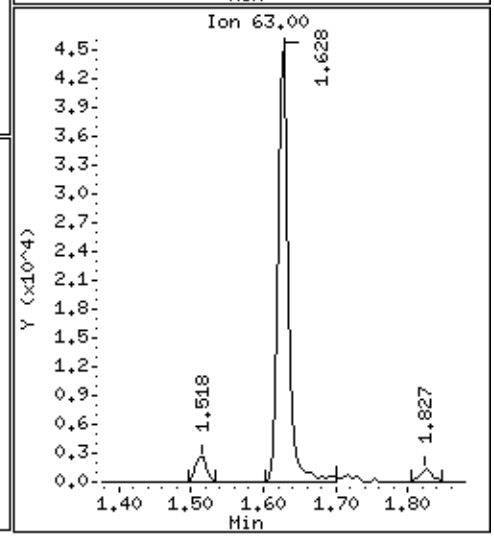












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

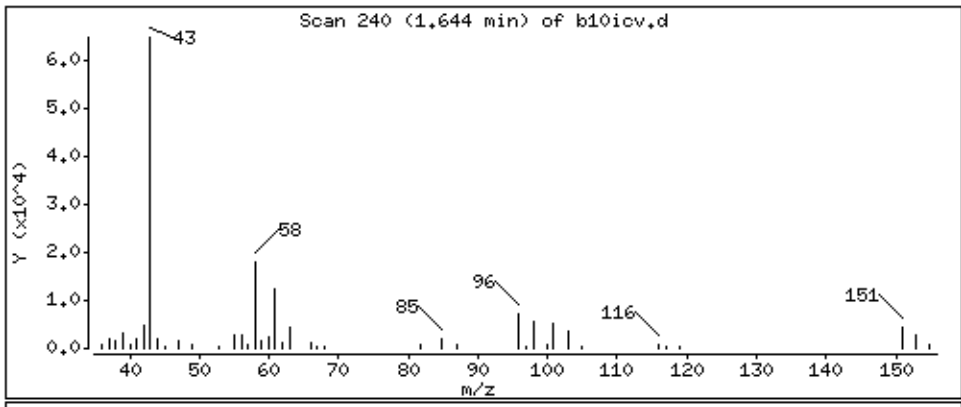
Operator: grm

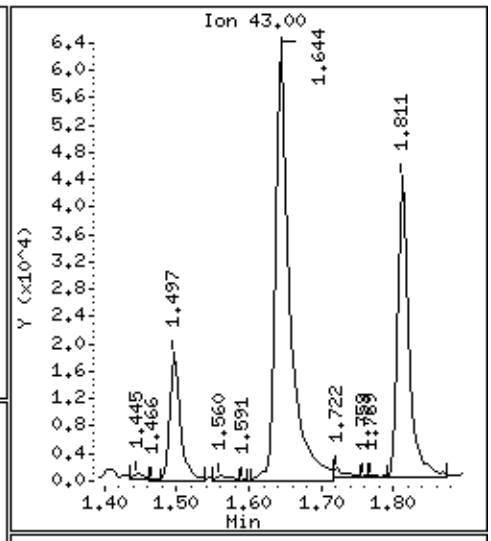
Column phase: DB-624

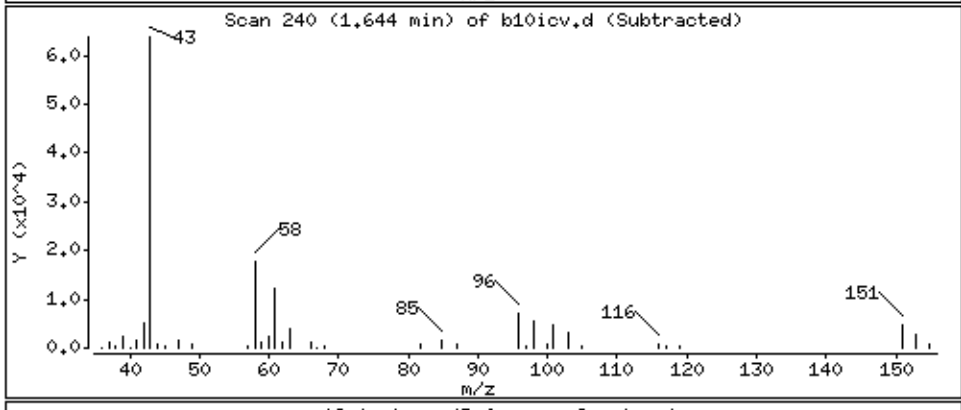
Column diameter: 0.18

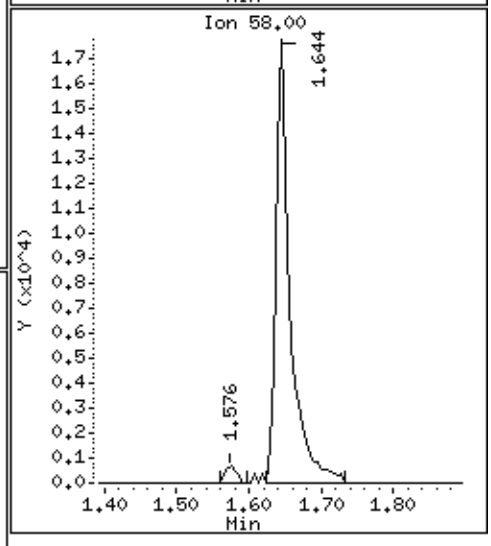
12 Acetone

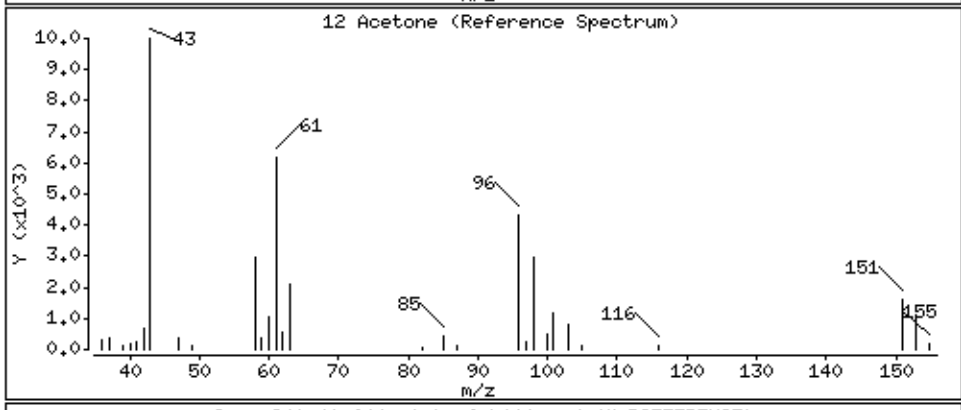
Concentration: 225 ppb

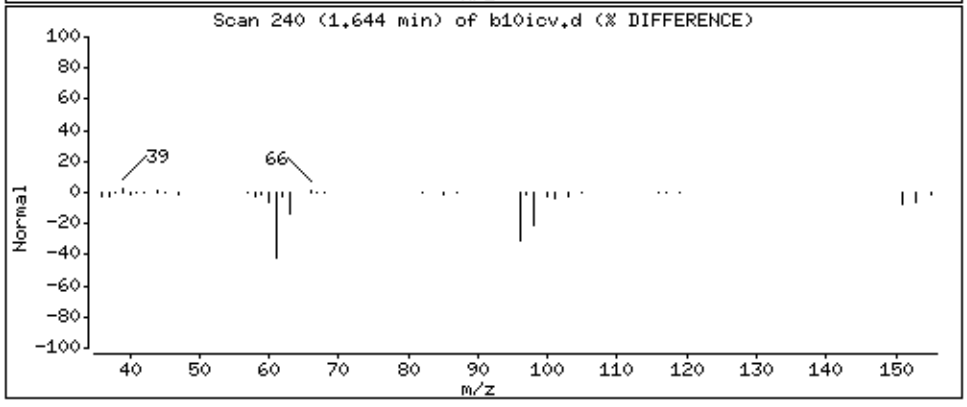












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

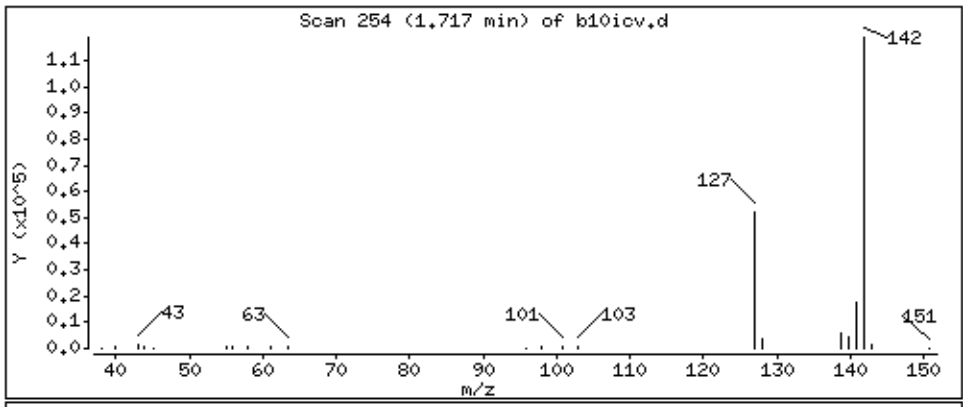
Operator: grm

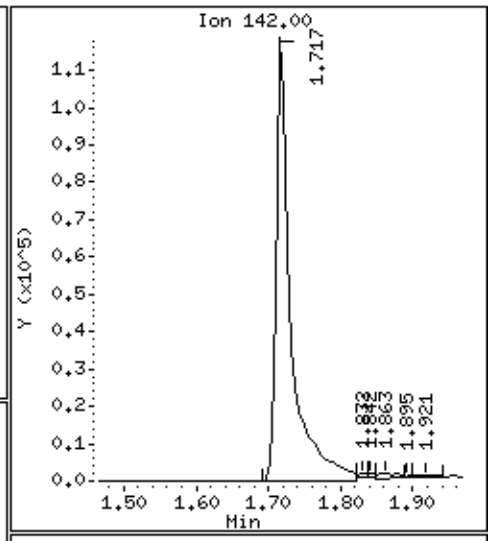
Column phase: DB-624

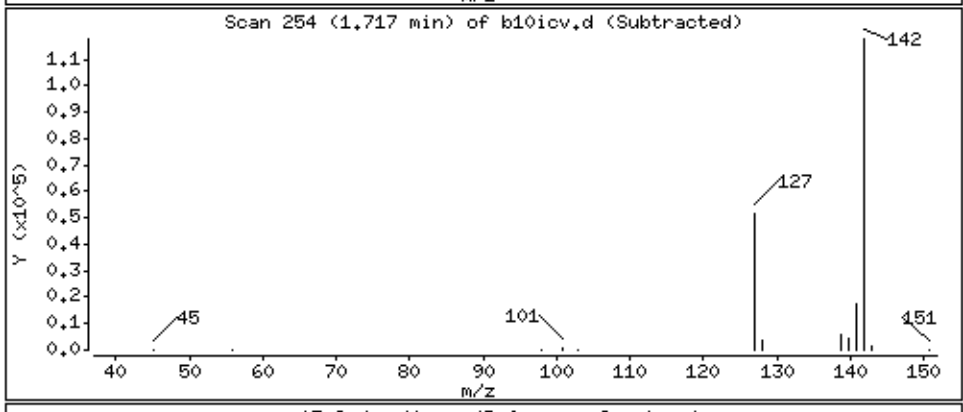
Column diameter: 0.18

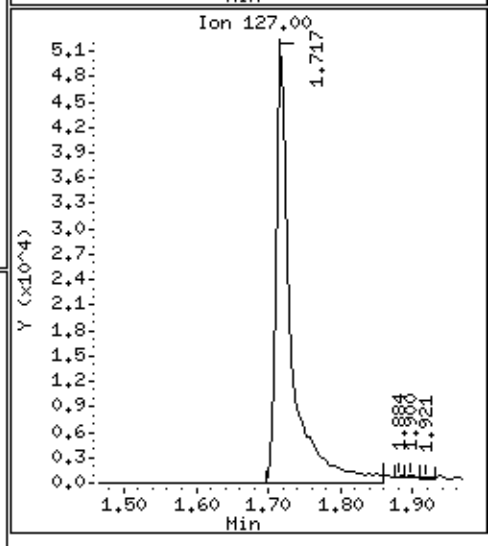
13 Iodomethane

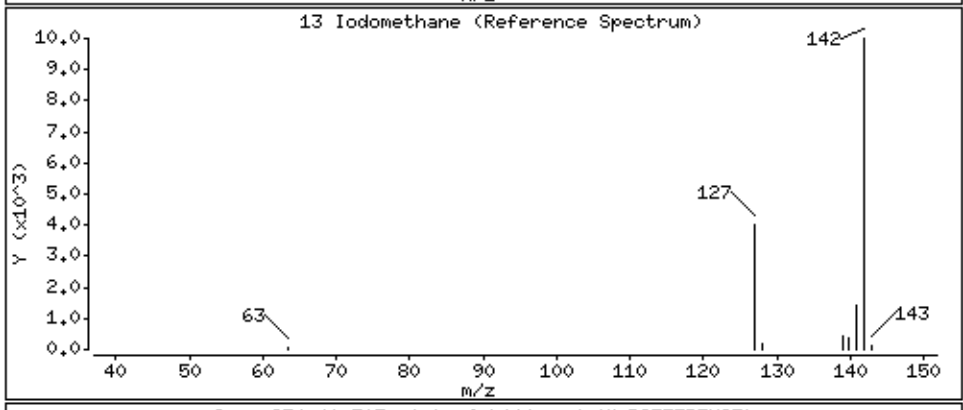
Concentration: 97.5 ppb

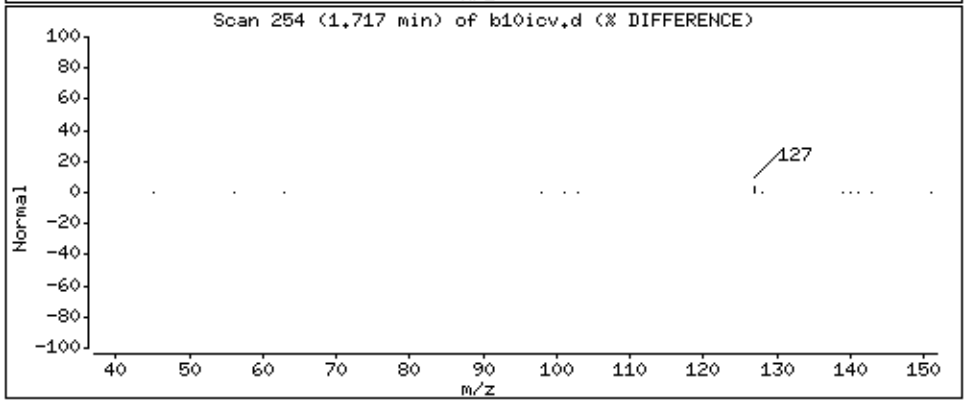












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

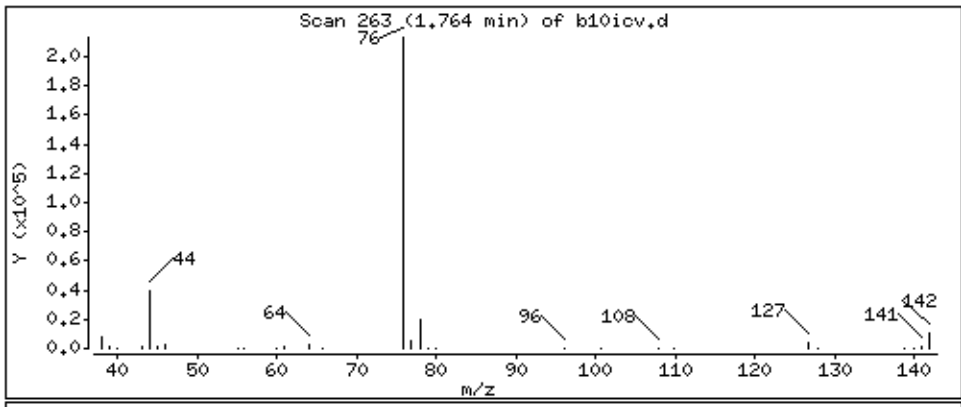
Operator: grm

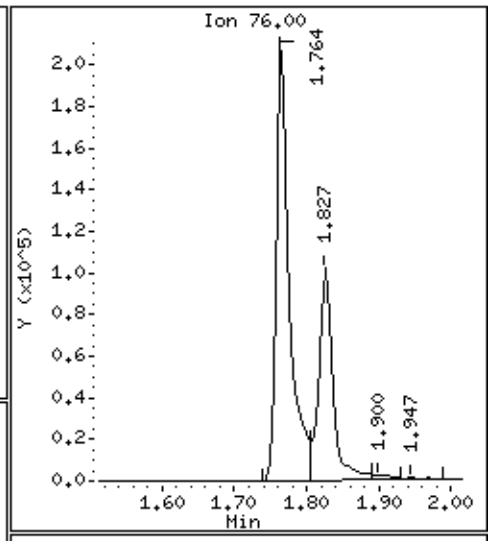
Column phase: DB-624

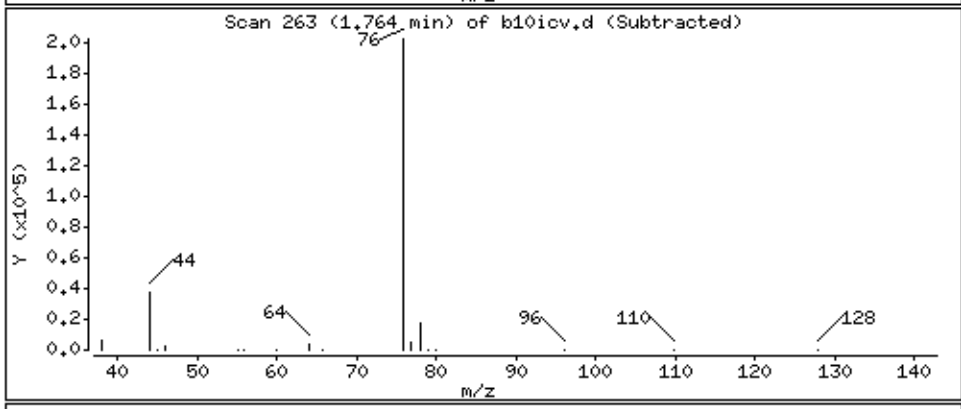
Column diameter: 0.18

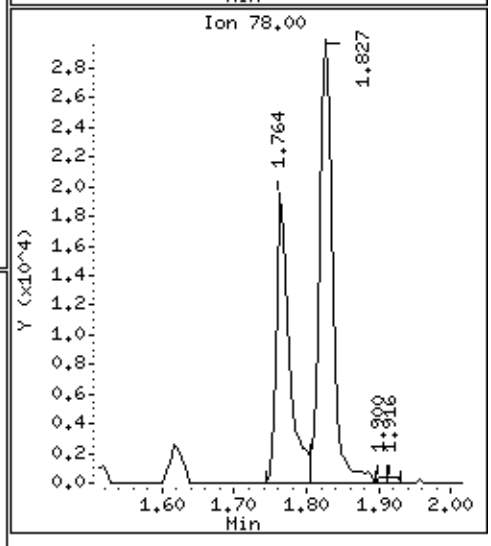
14 Carbon Disulfide

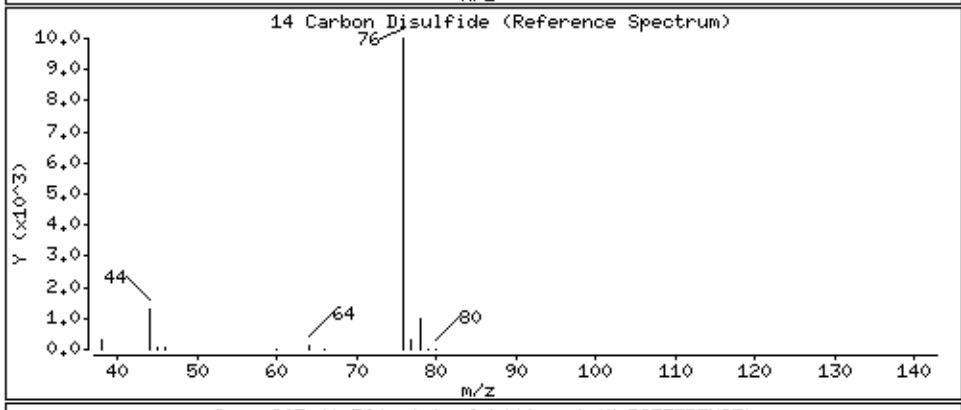
Concentration: 48.9 ppb

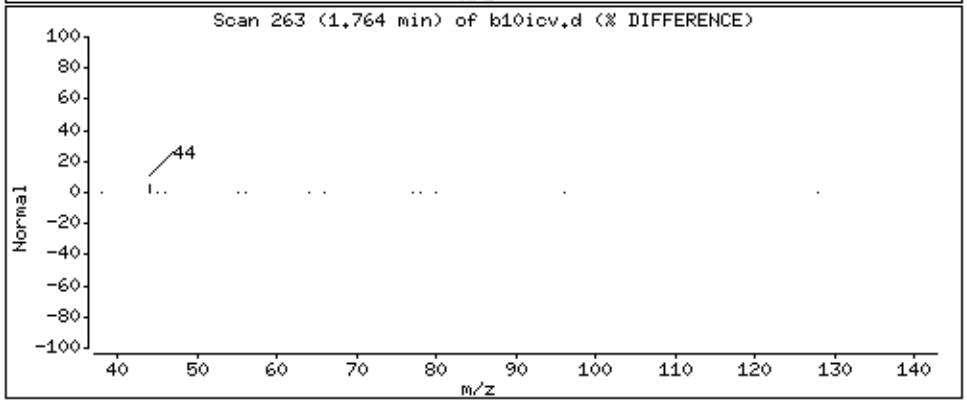












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

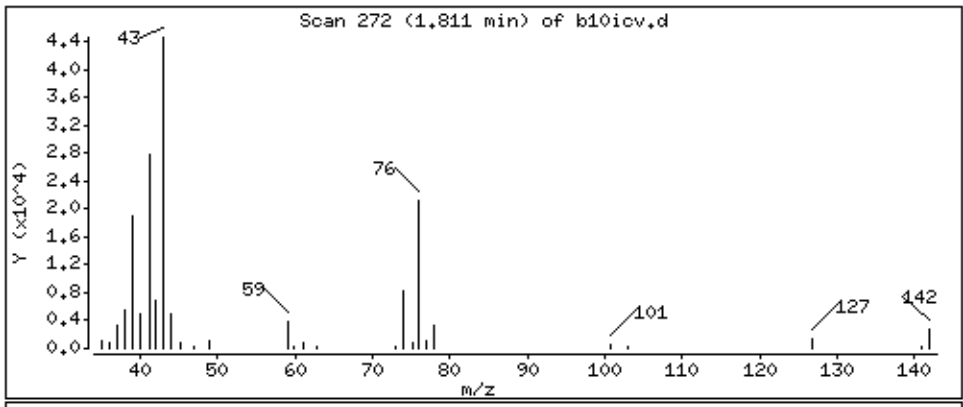
Operator: grm

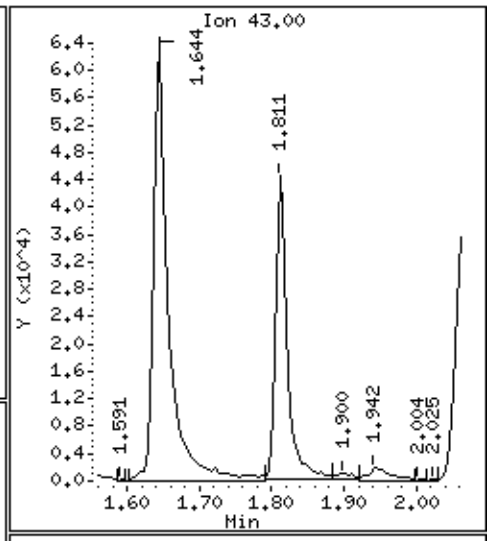
Column phase: DB-624

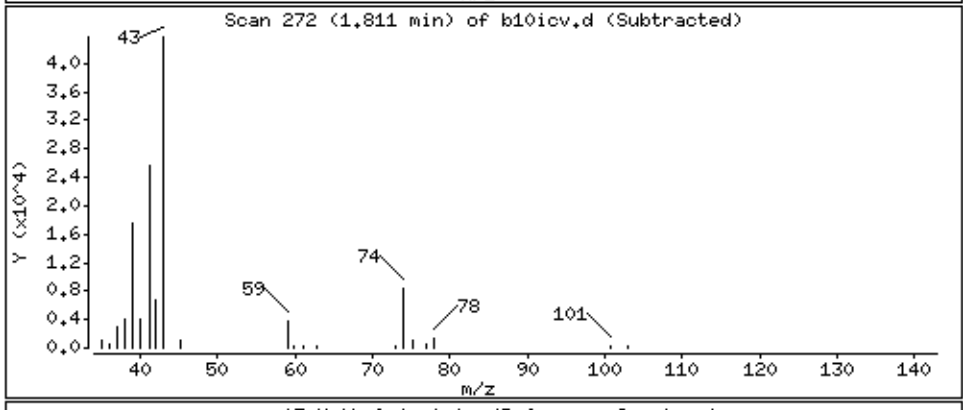
Column diameter: 0.18

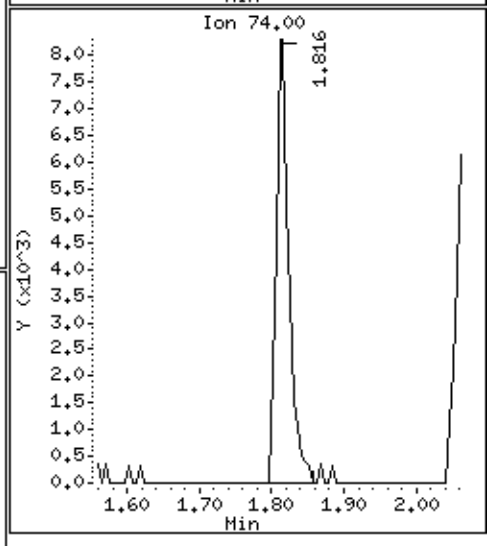
15 Methyl Acetate

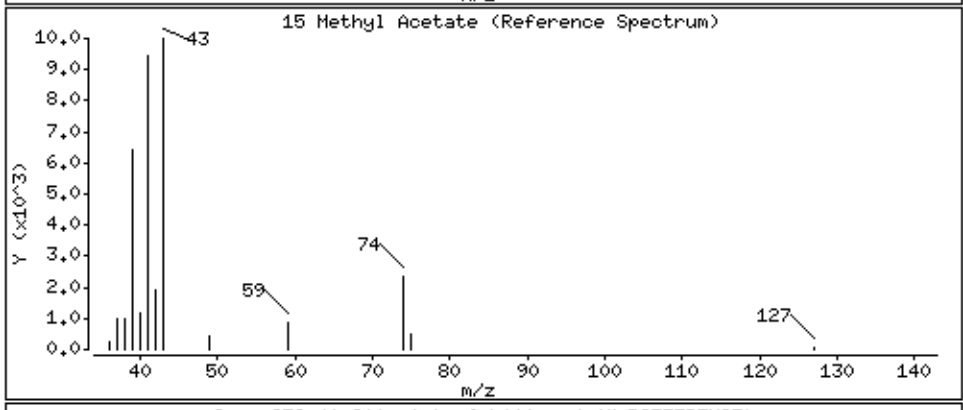
Concentration: 46.5 ppb

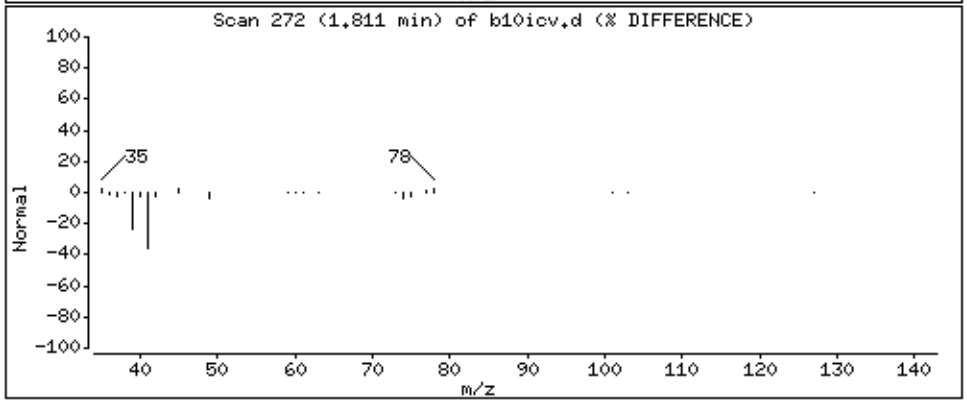












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

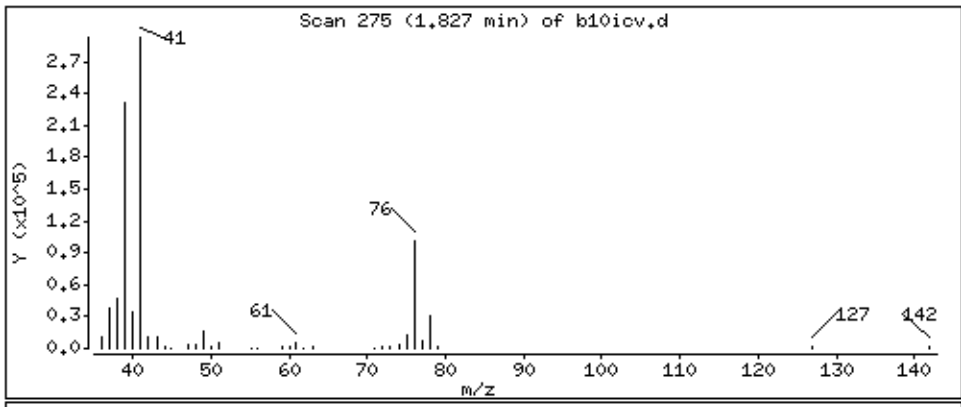
Operator: grm

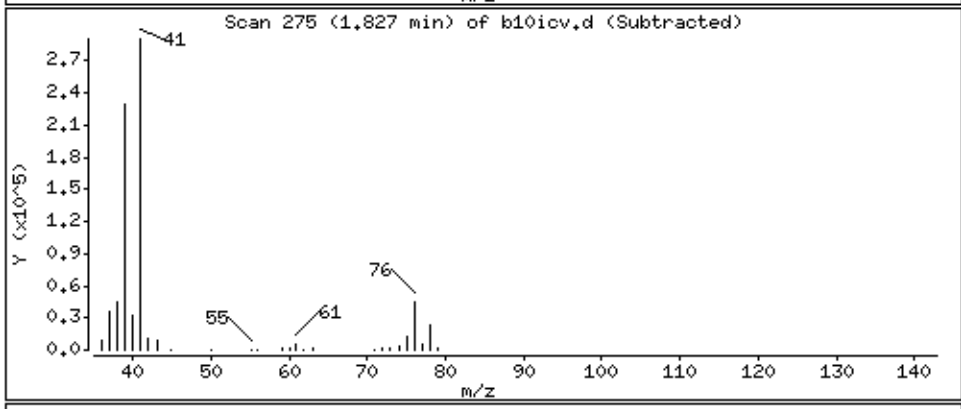
Column phase: DB-624

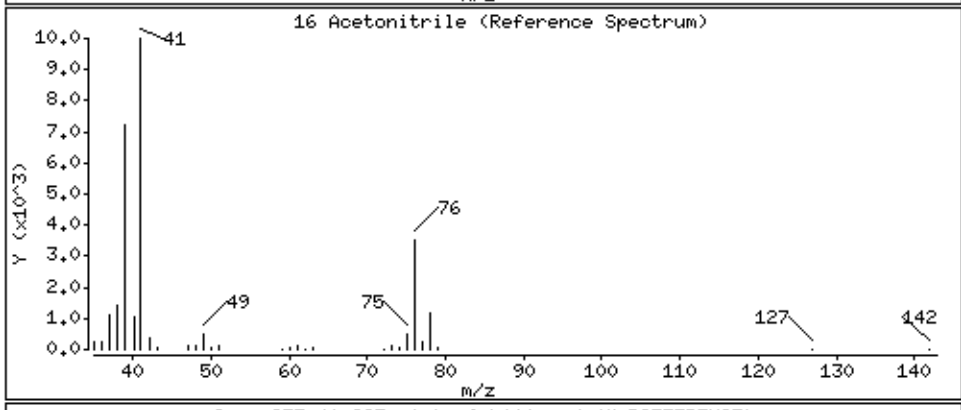
Column diameter: 0.18

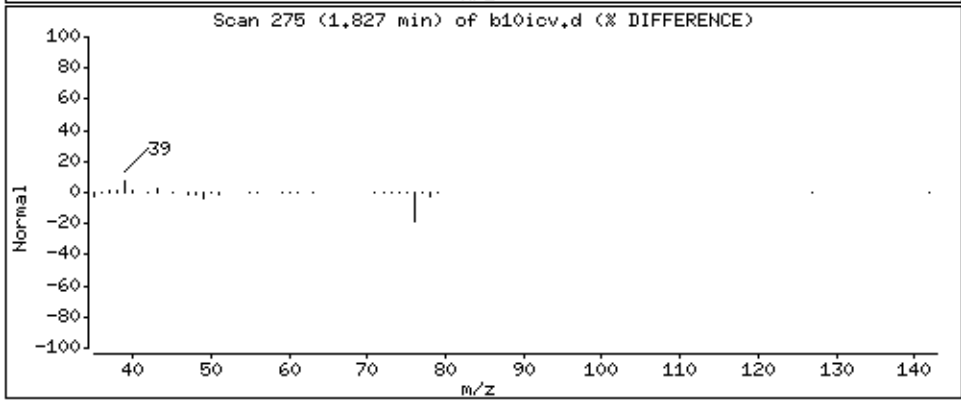
16 Acetonitrile

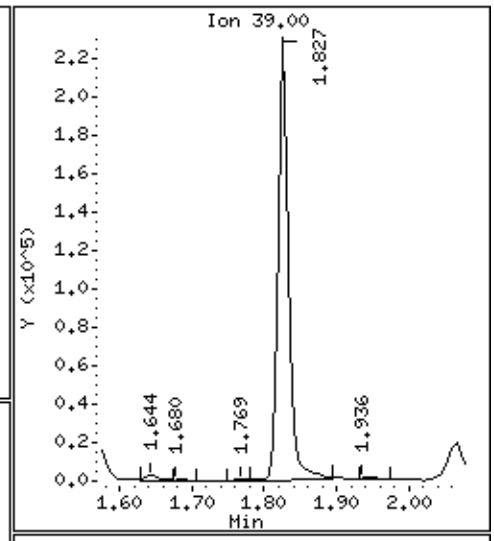
Concentration: 56.8 ppb

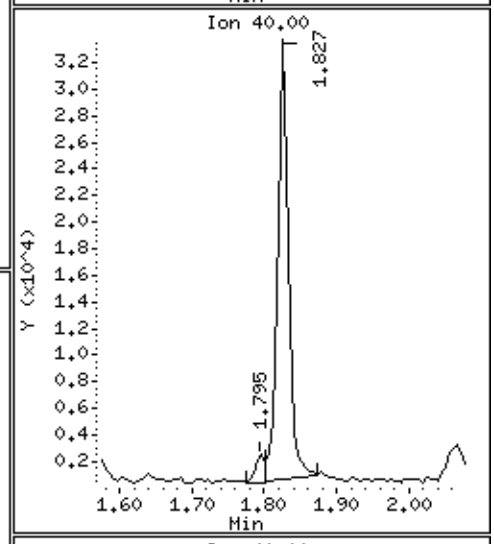


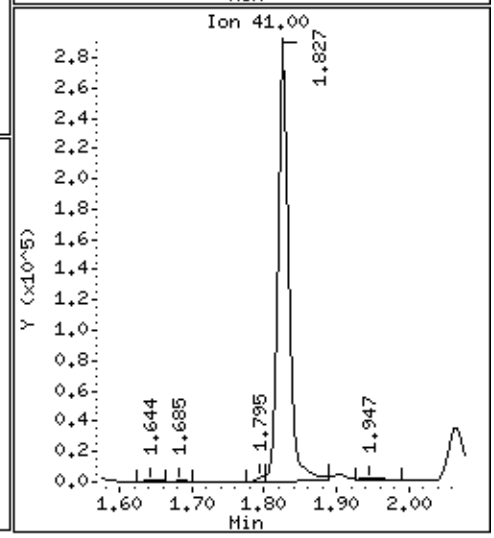












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

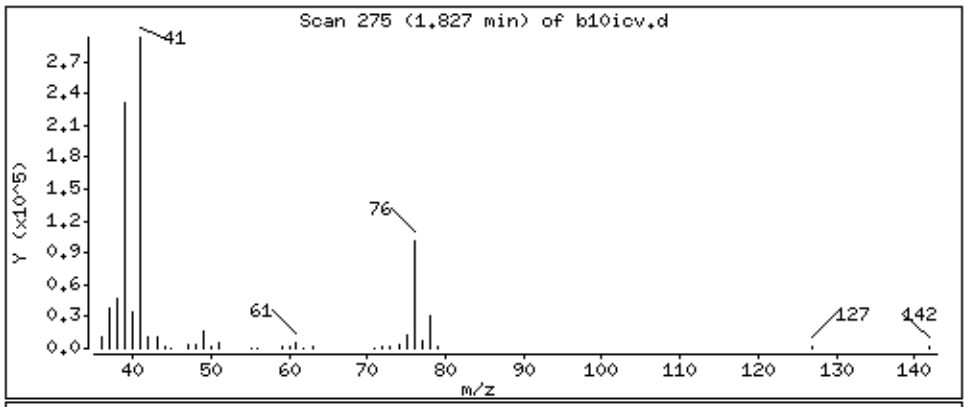
Operator: grm

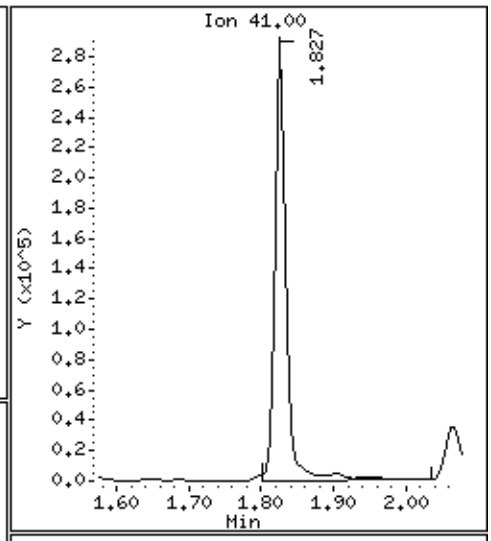
Column phase: DB-624

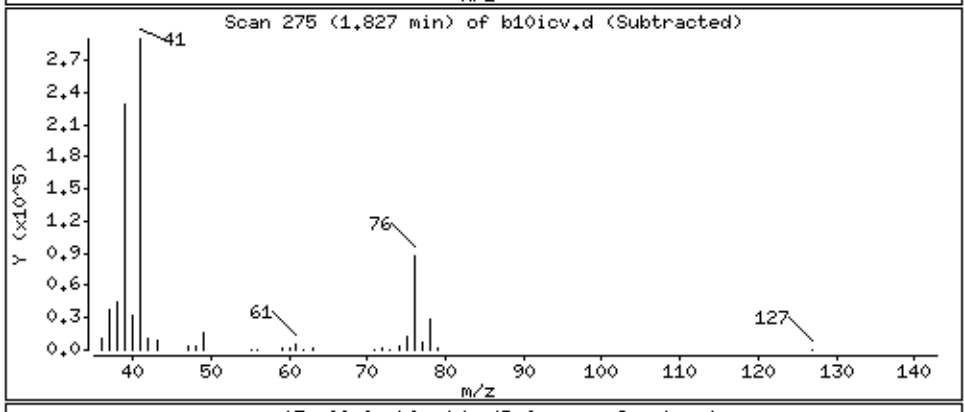
Column diameter: 0.18

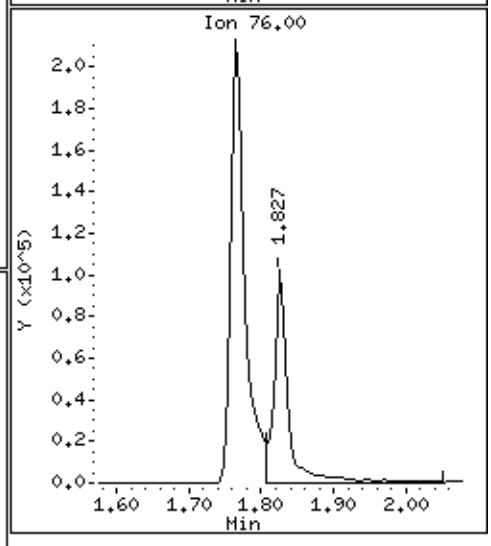
17 allyl chloride

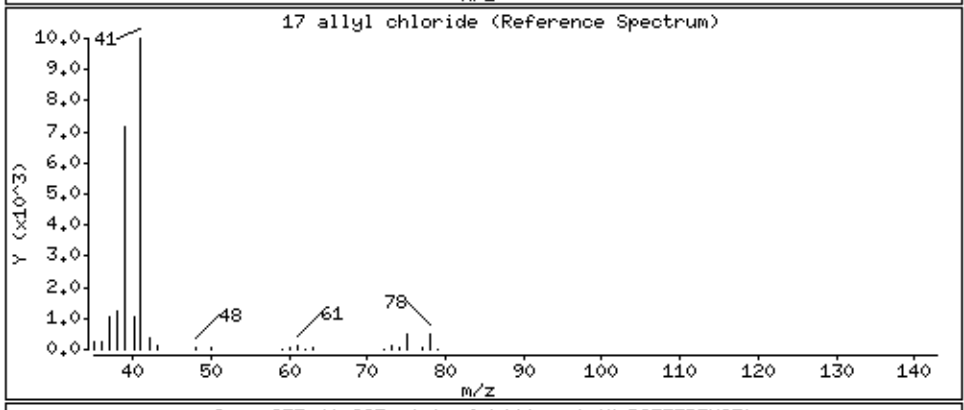
Concentration: 111 ppb

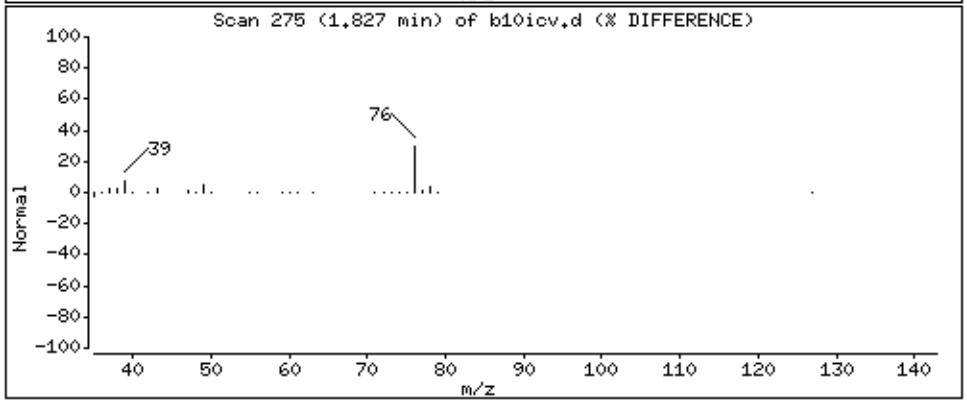












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

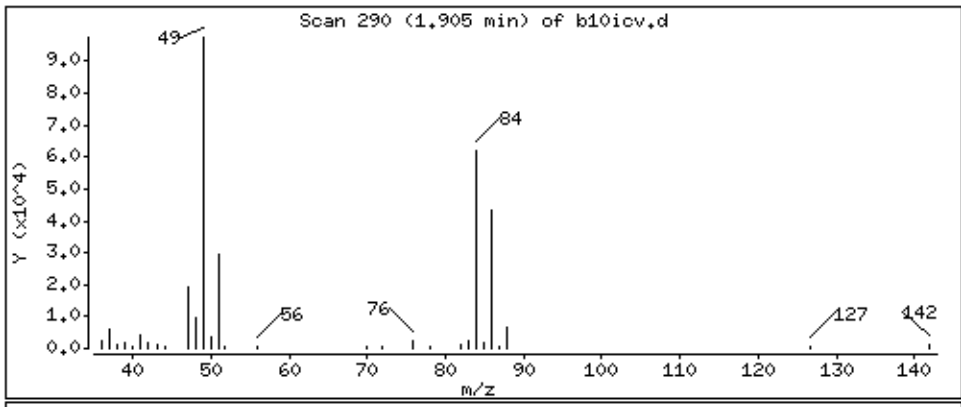
Operator: grm

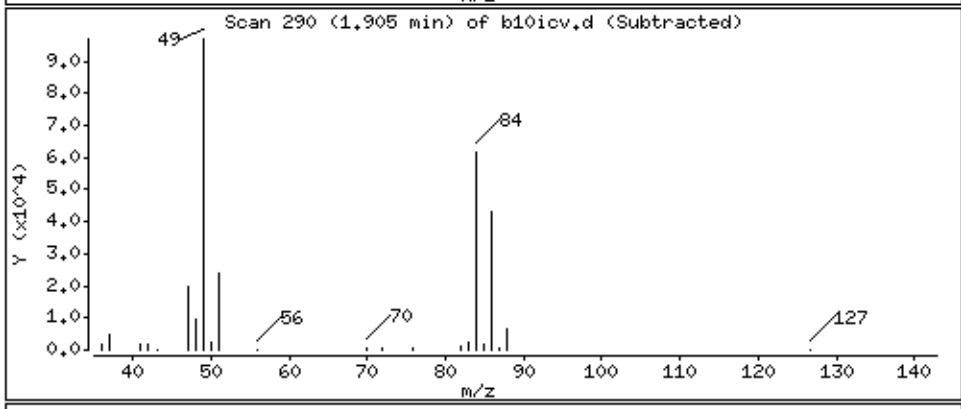
Column phase: DB-624

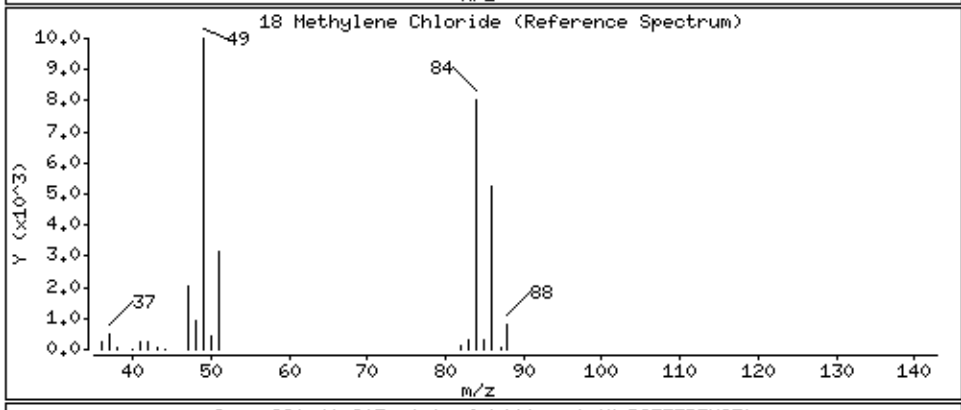
Column diameter: 0.18

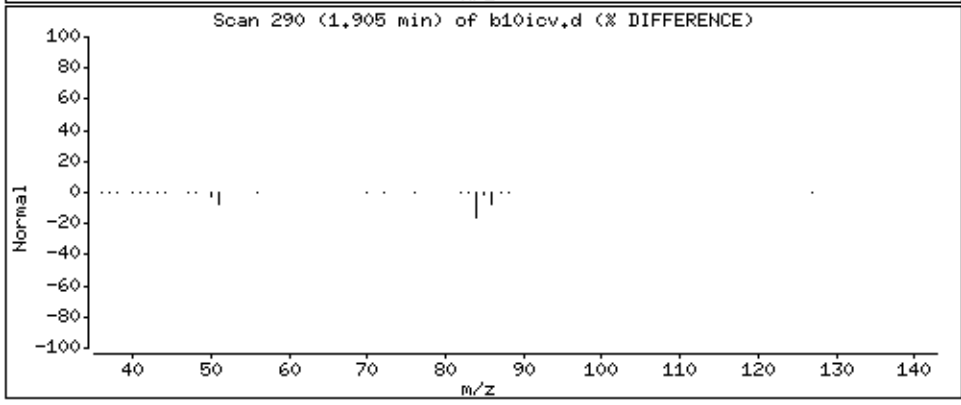
18 Methylene Chloride

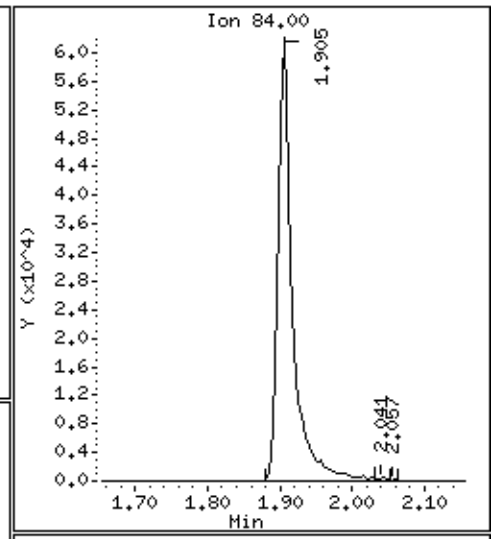
Concentration: 46.6 ppb

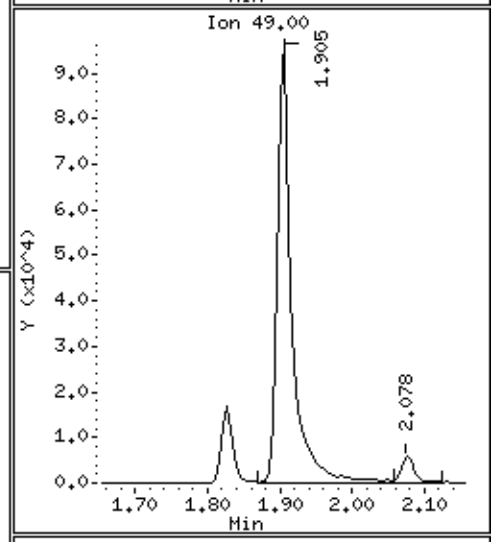


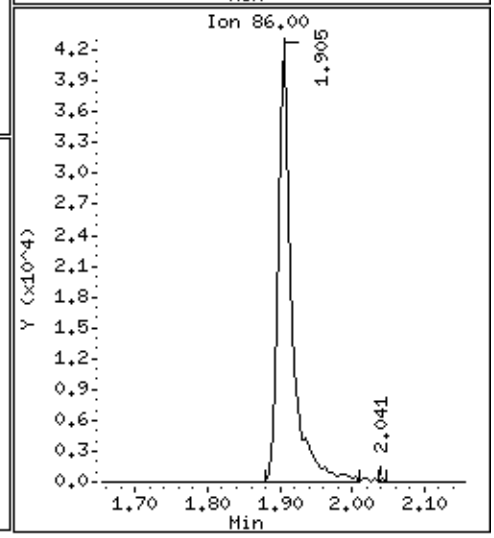












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

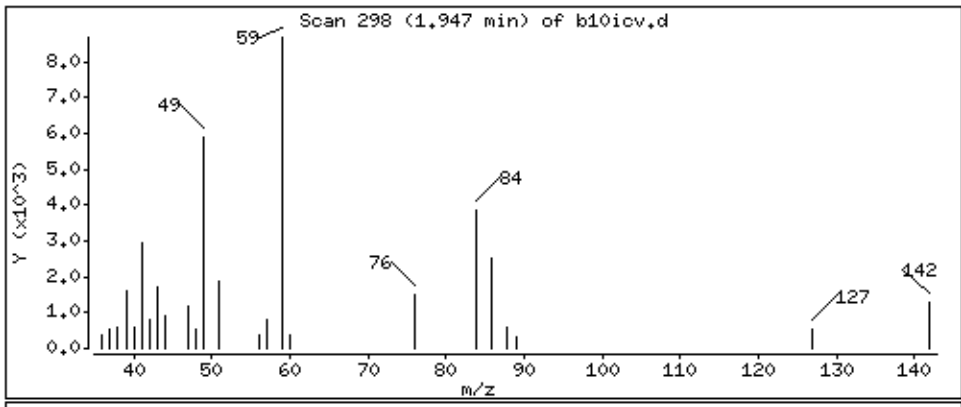
Operator: grm

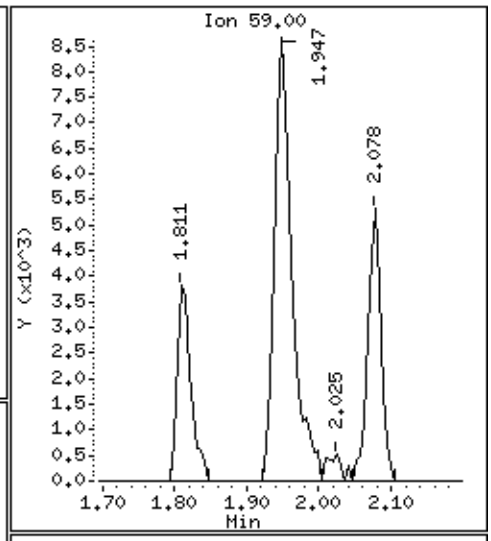
Column phase: DB-624

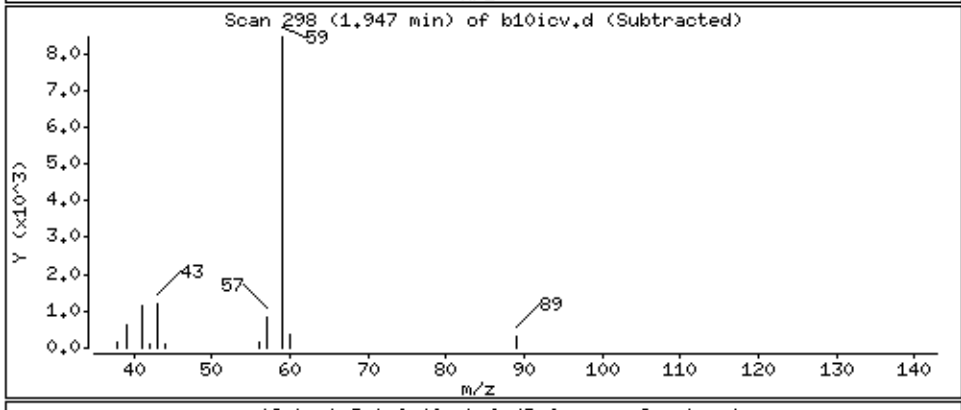
Column diameter: 0.18

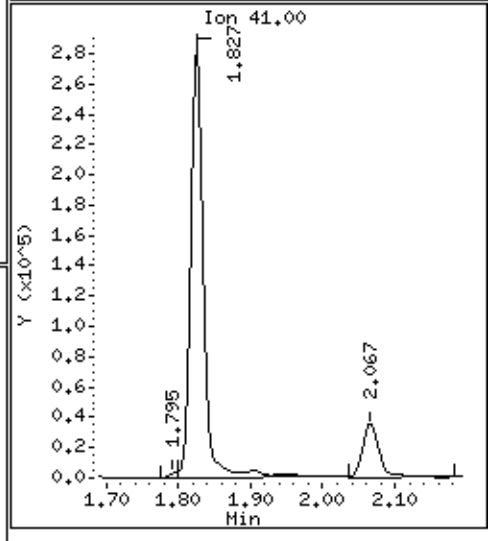
19 tert-Butyl Alcohol

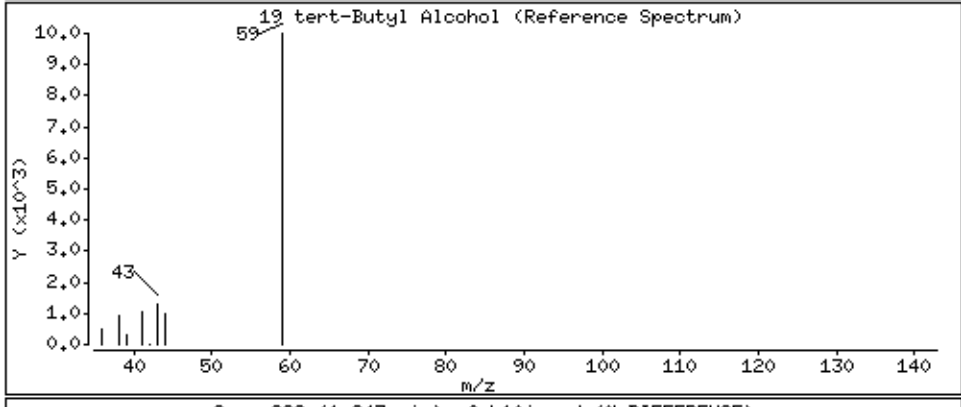
Concentration: 102 ppb

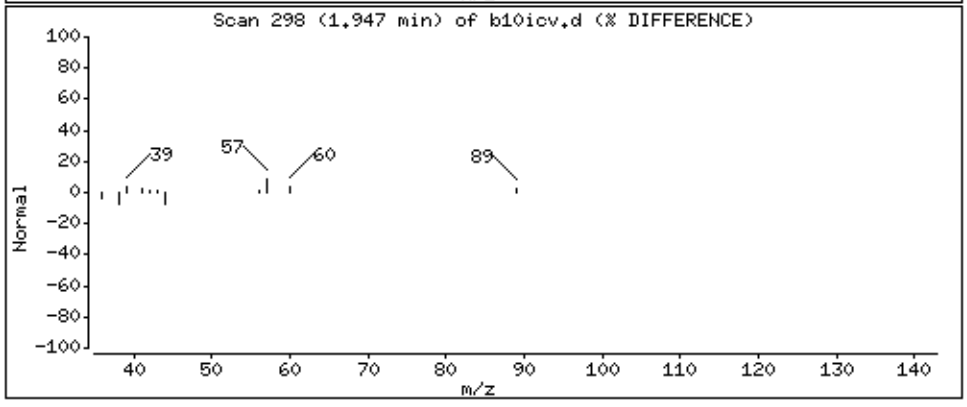












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

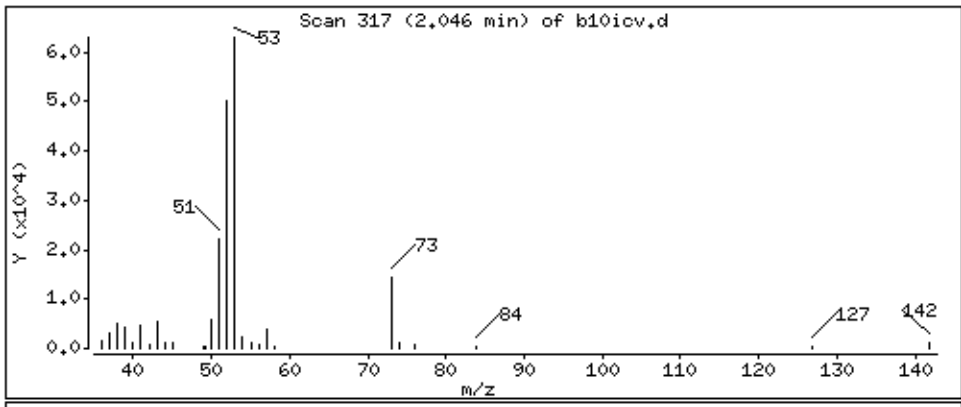
Operator: grm

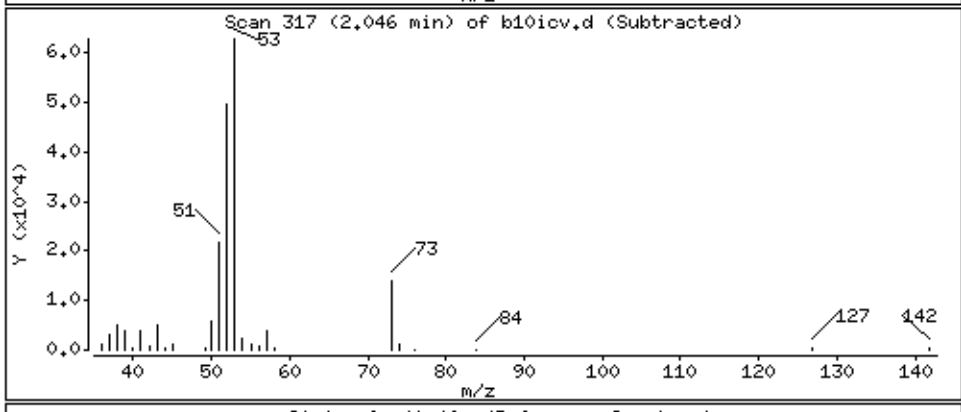
Column phase: DB-624

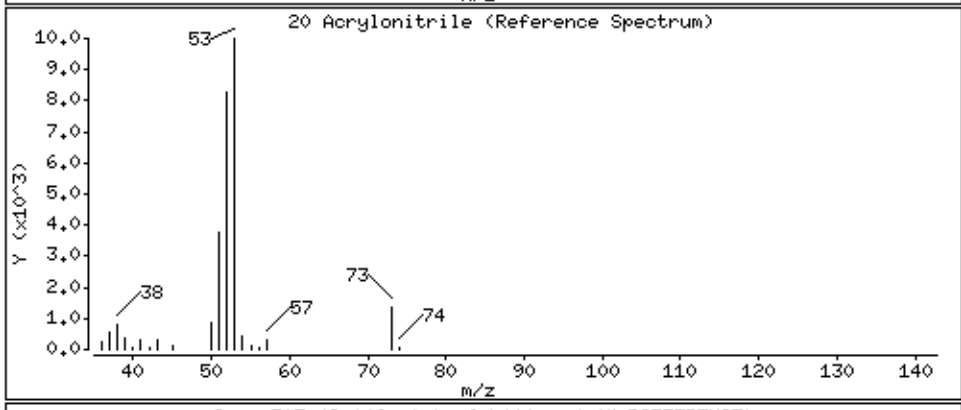
Column diameter: 0.18

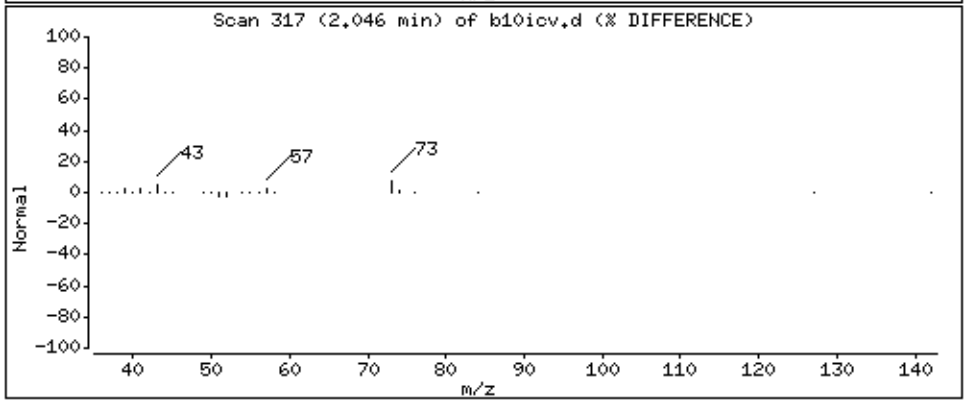
20 Acrylonitrile

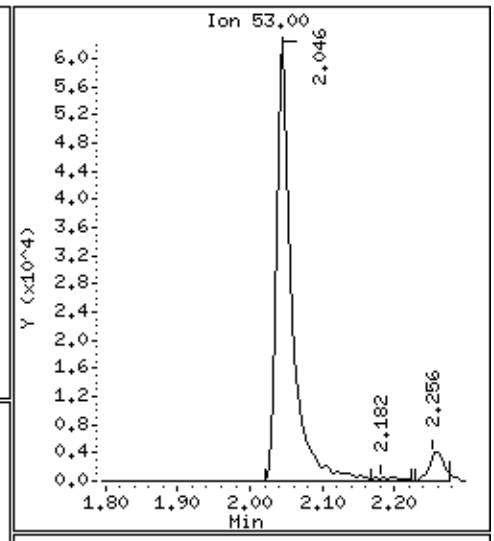
Concentration: 203 ppb

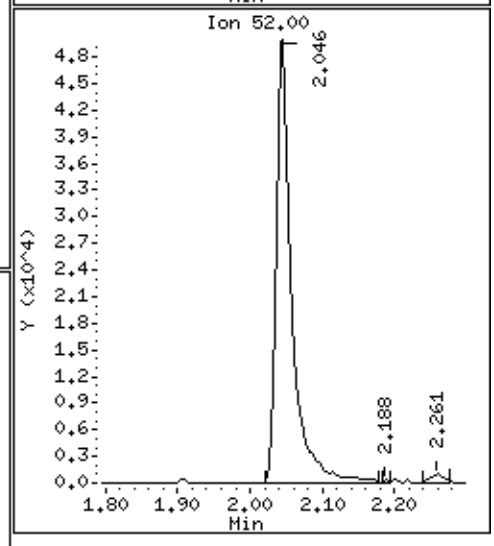












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 25

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

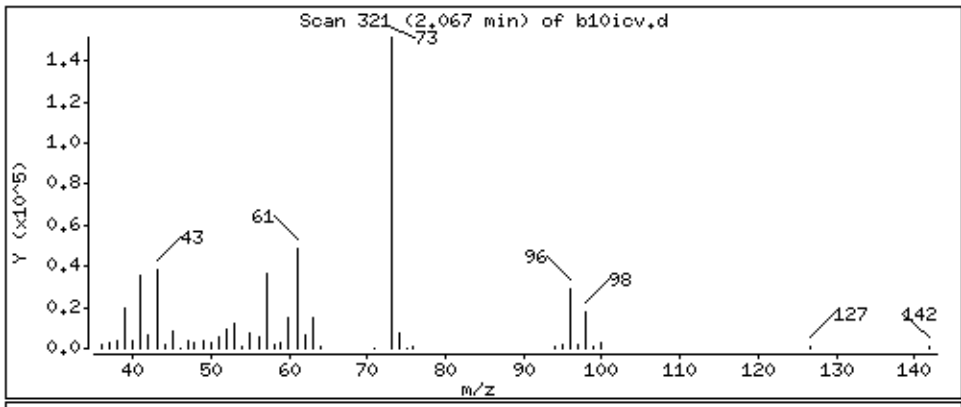
Operator: grm

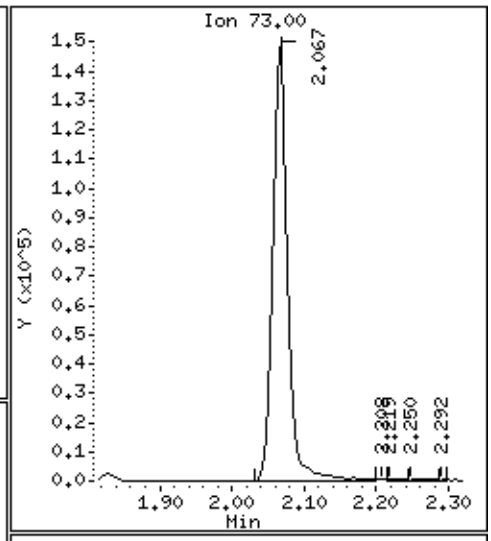
Column phase: DB-624

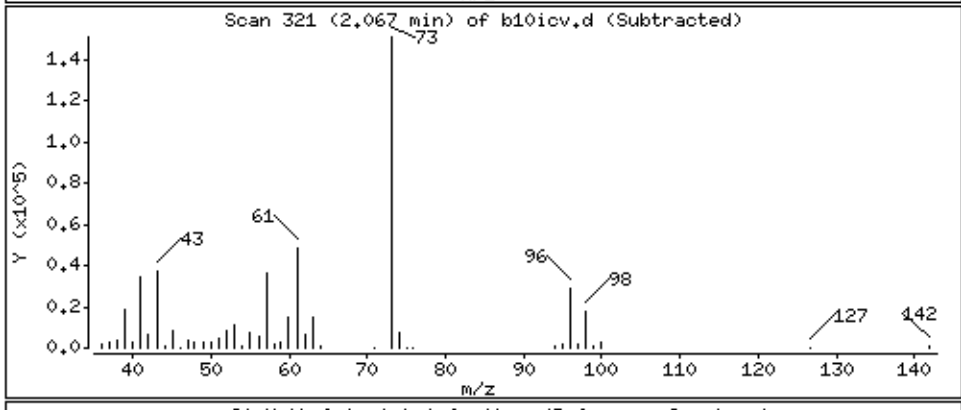
Column diameter: 0.18

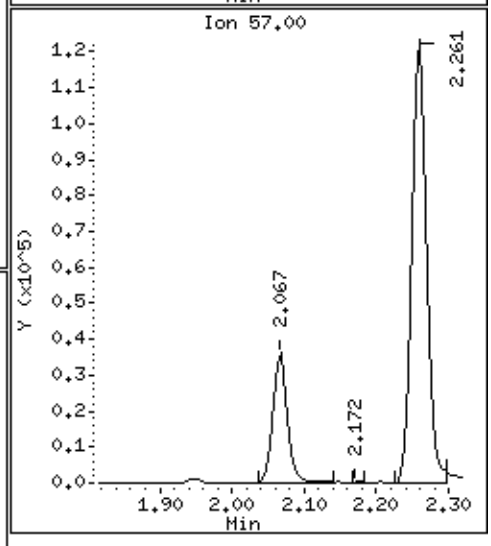
21 Methyl-tert-butyl ether

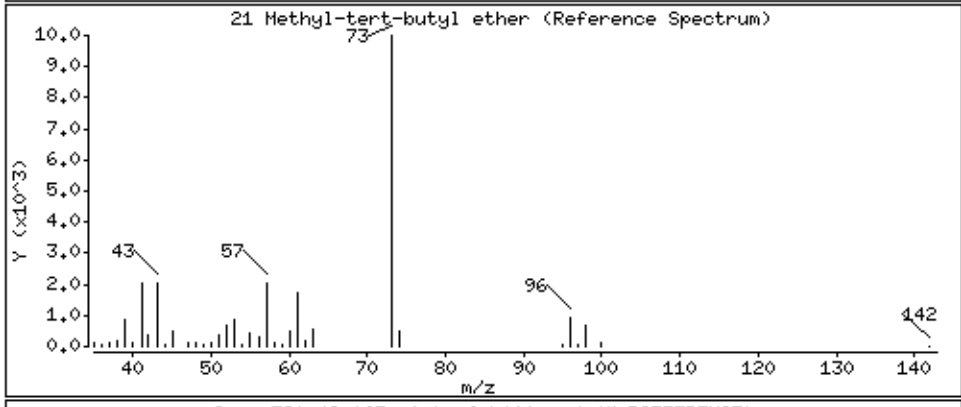
Concentration: 50.8 ppb

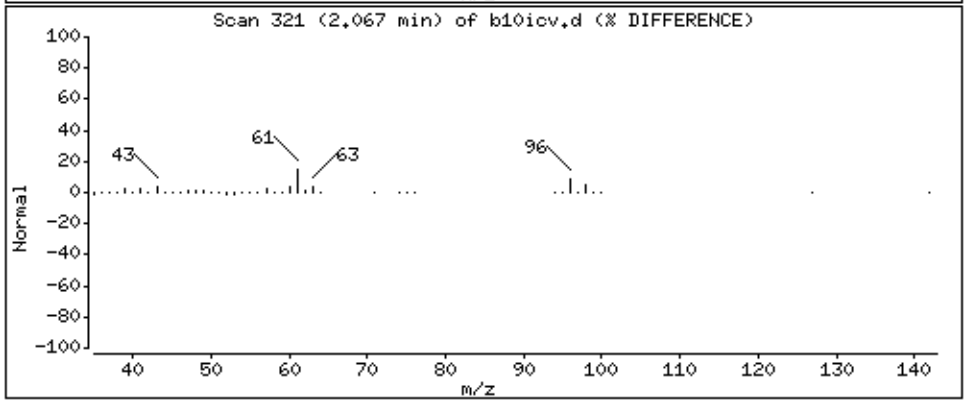












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

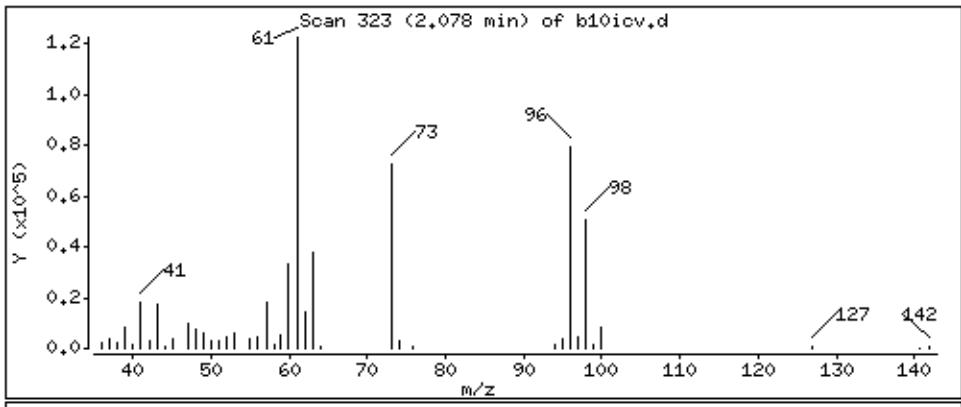
Operator: grm

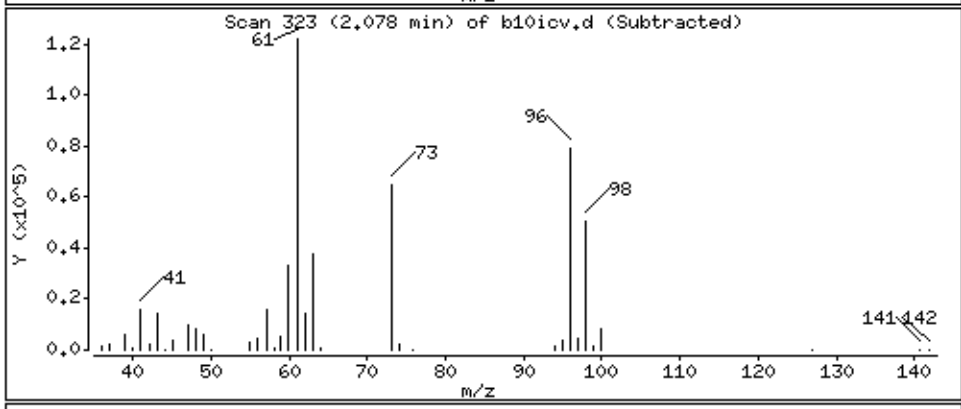
Column phase: DB-624

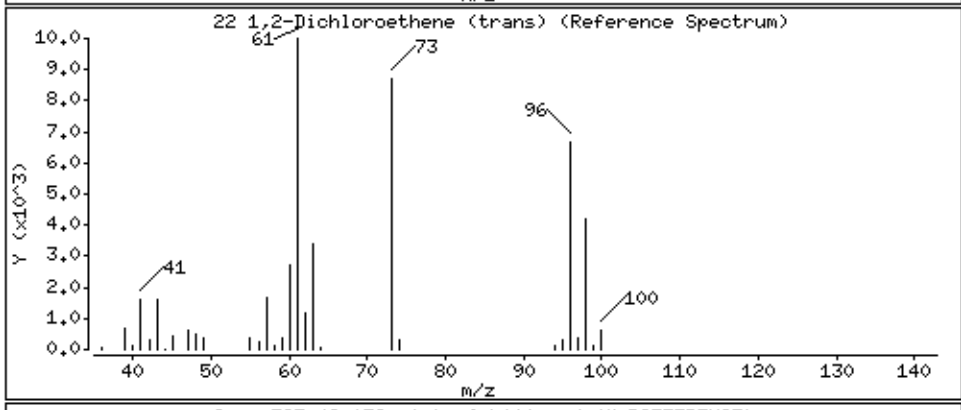
Column diameter: 0.18

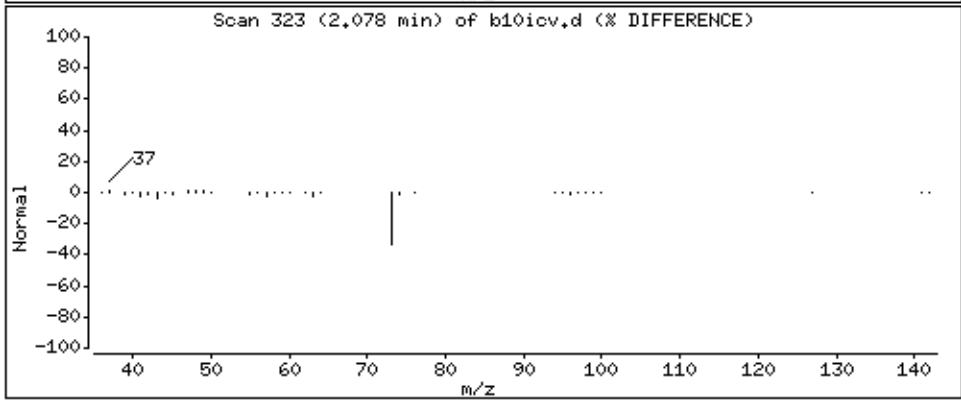
22 1,2-Dichloroethene (trans)

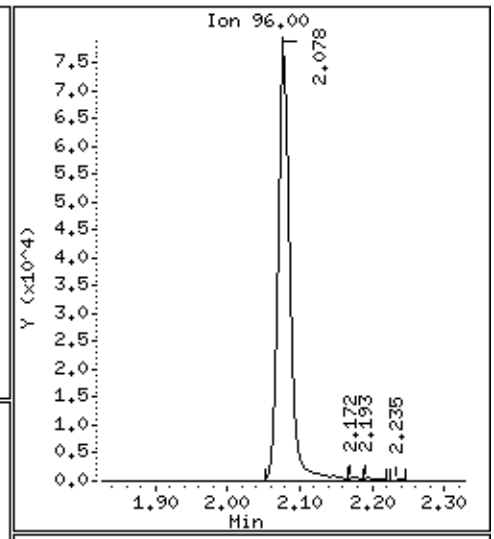
Concentration: 52.7 ppb

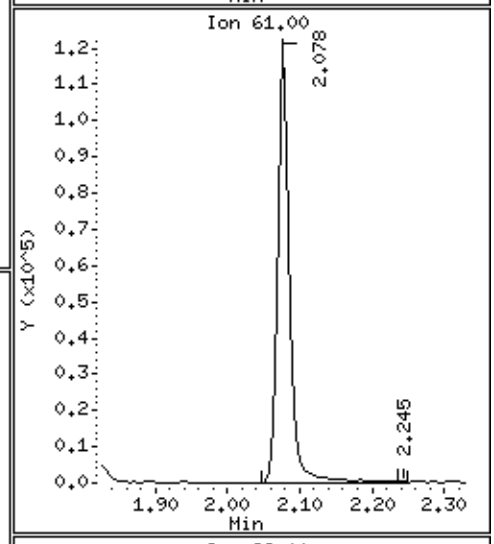


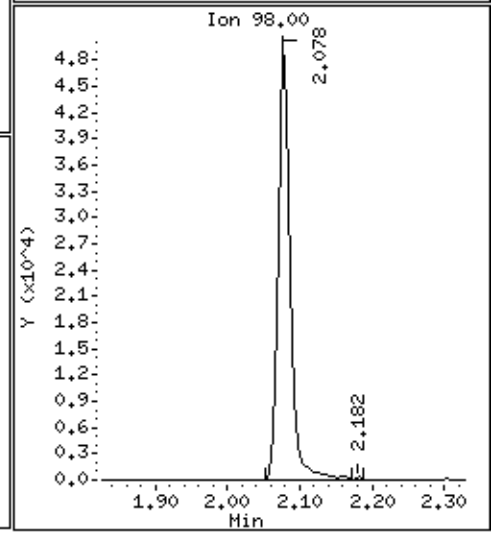












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

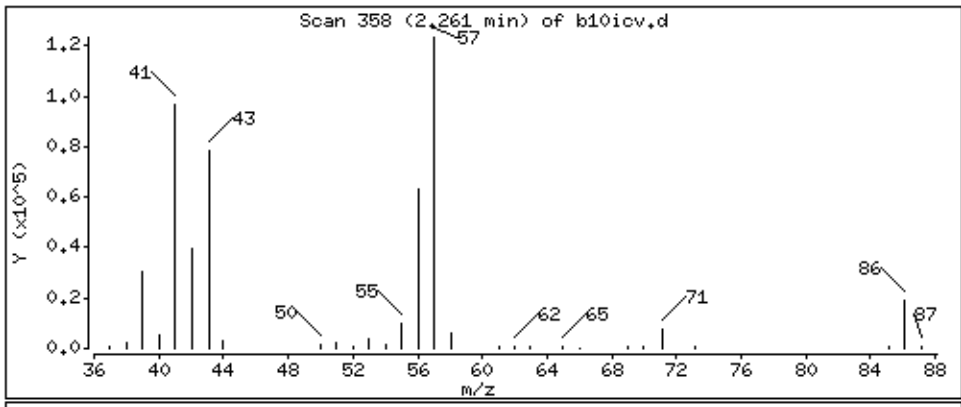
Operator: grm

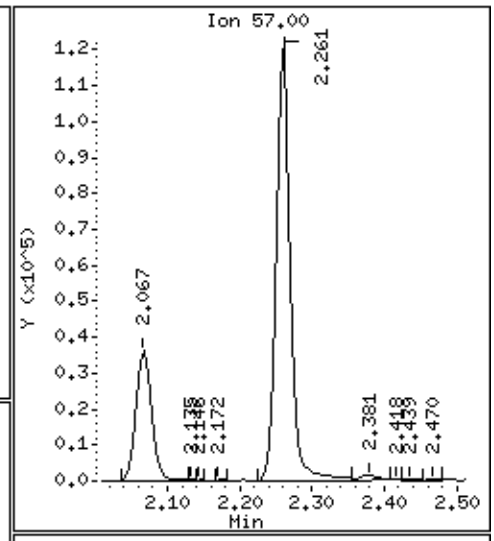
Column phase: DB-624

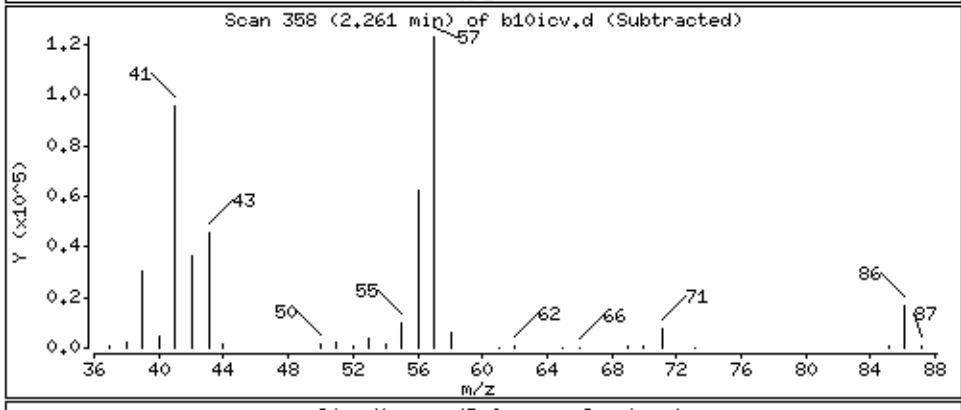
Column diameter: 0.18

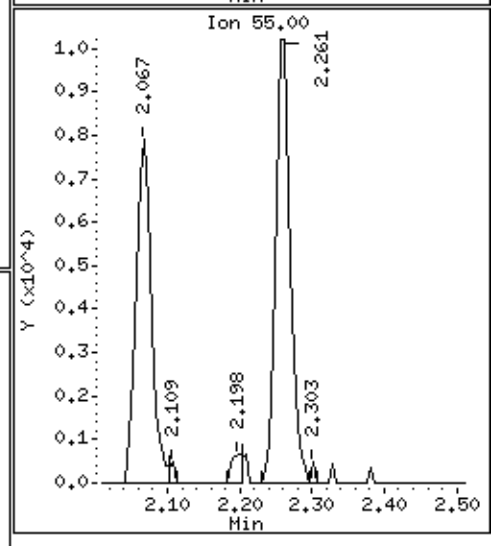
24 n-Hexane

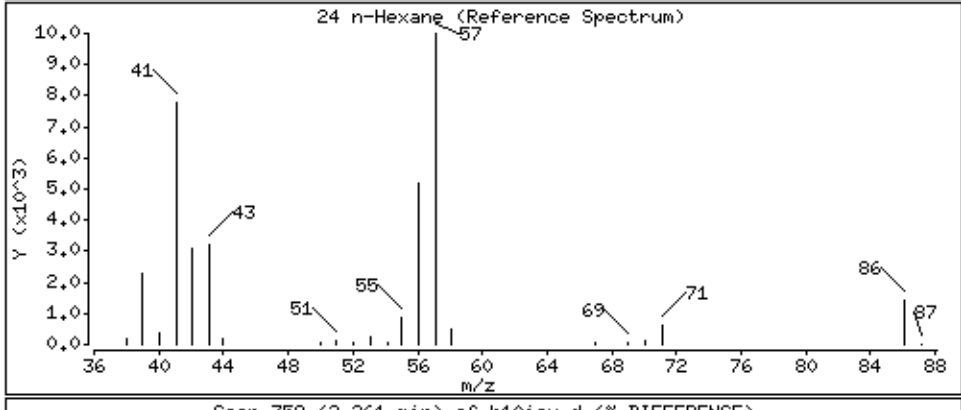
Concentration: 53.6 ppb

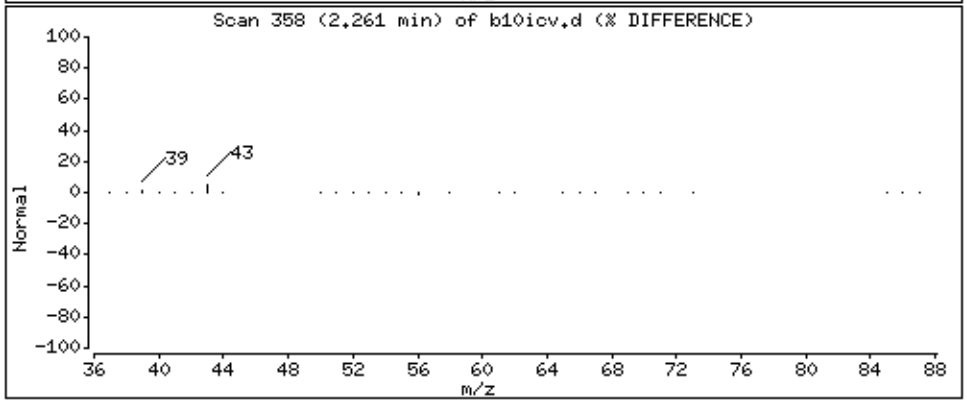












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

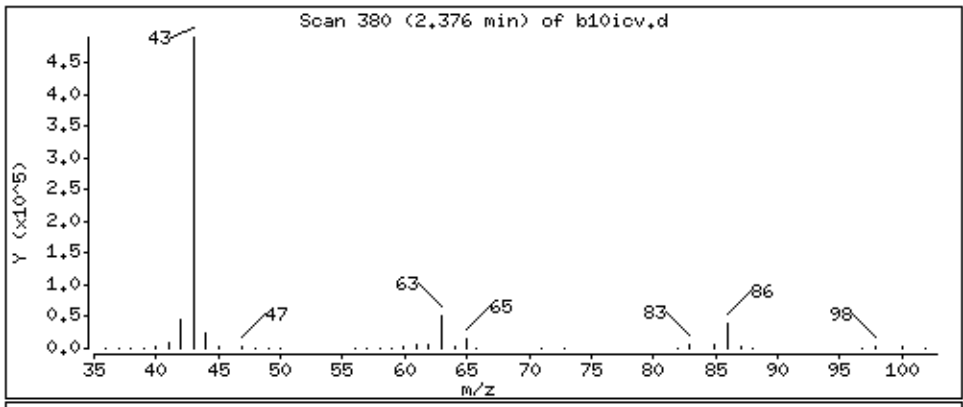
Operator: grm

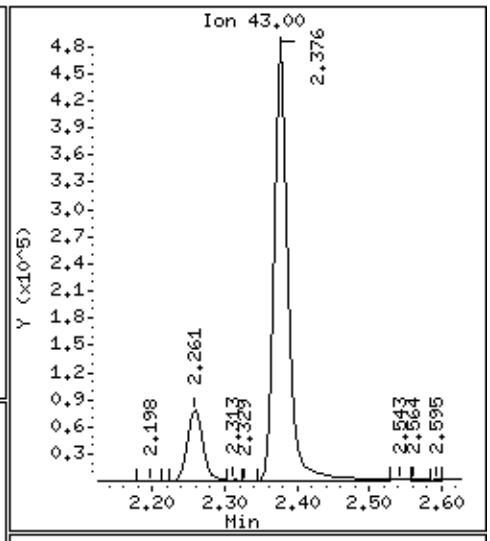
Column phase: DB-624

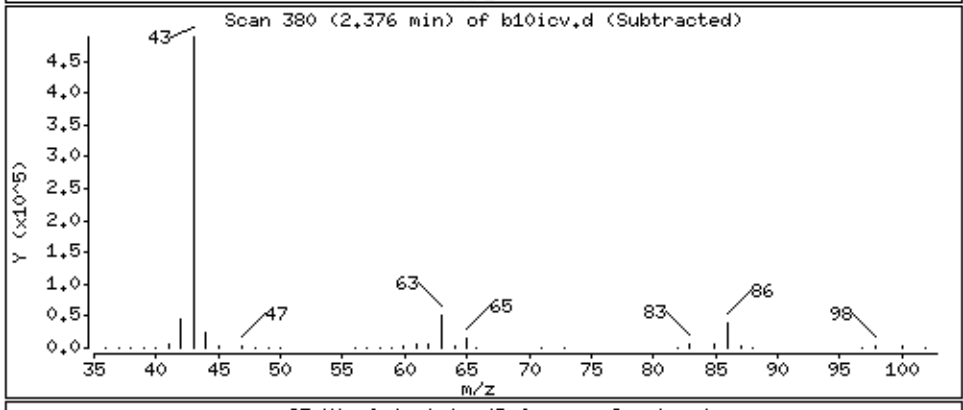
Column diameter: 0.18

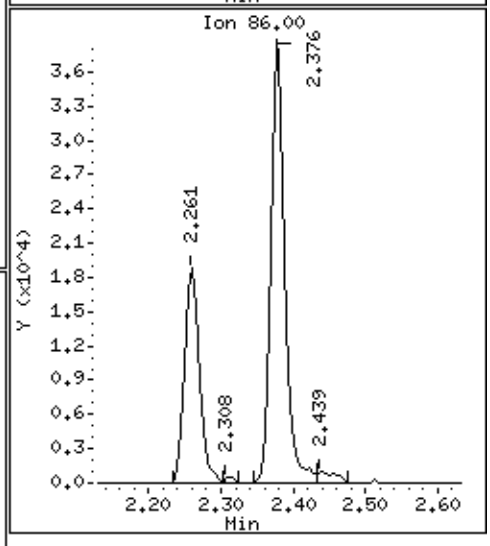
25 Vinyl Acetate

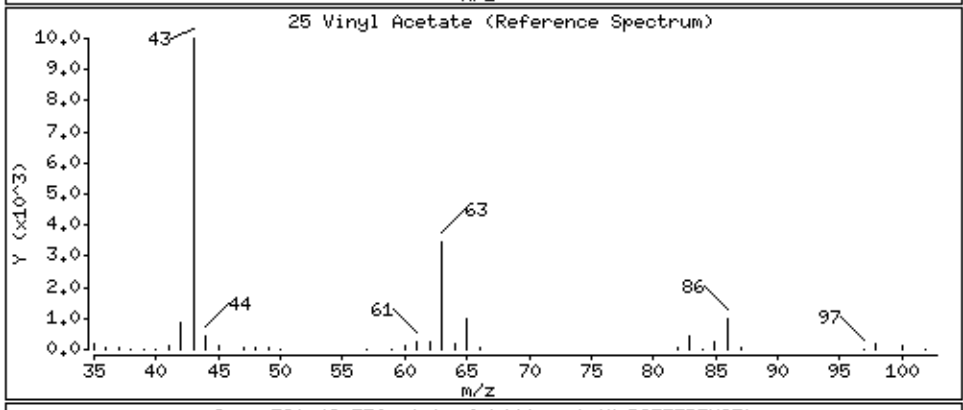
Concentration: 220 ppb

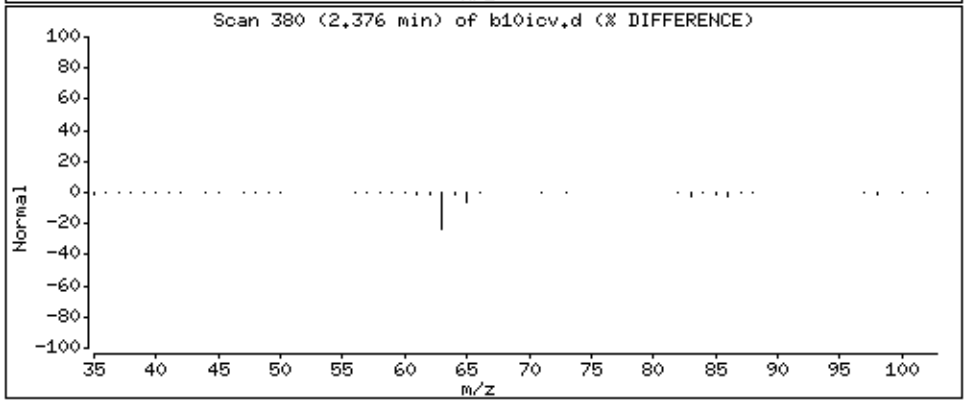












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

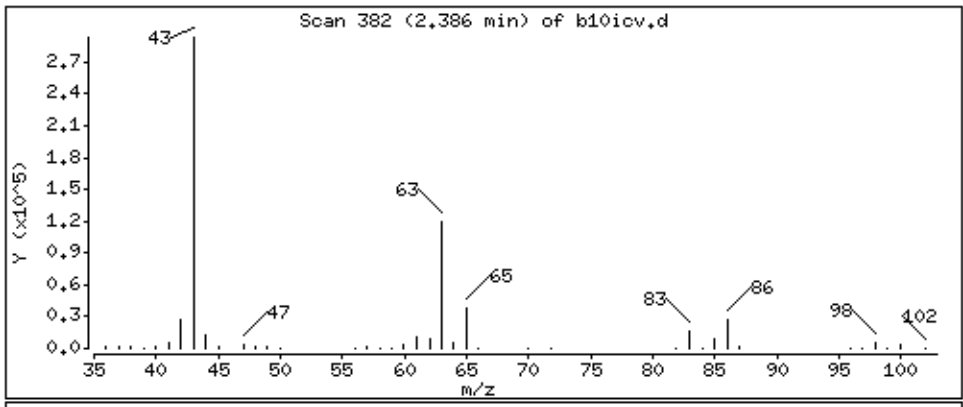
Operator: grm

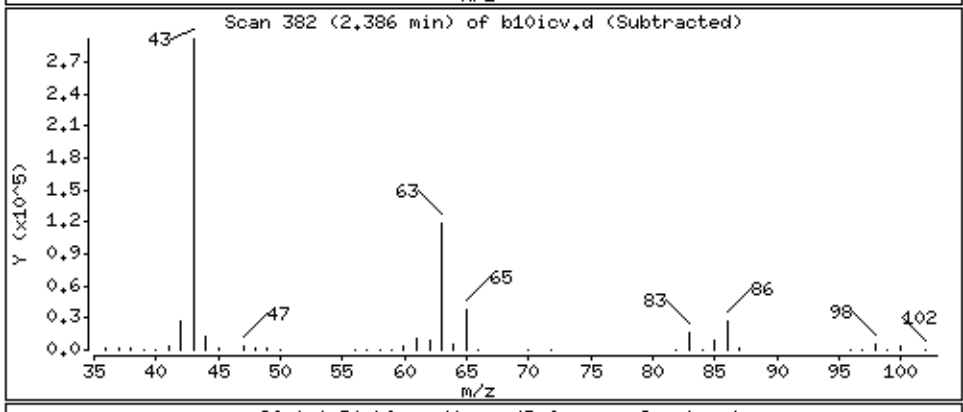
Column phase: DB-624

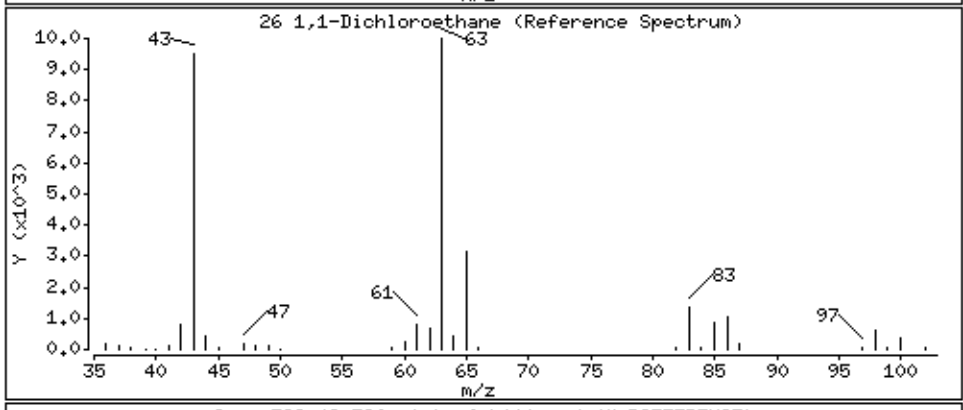
Column diameter: 0.18

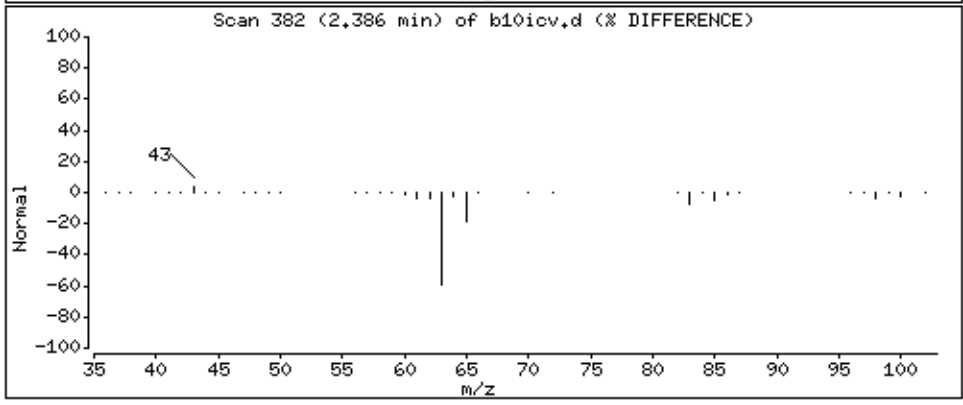
26 1,1-Dichloroethane

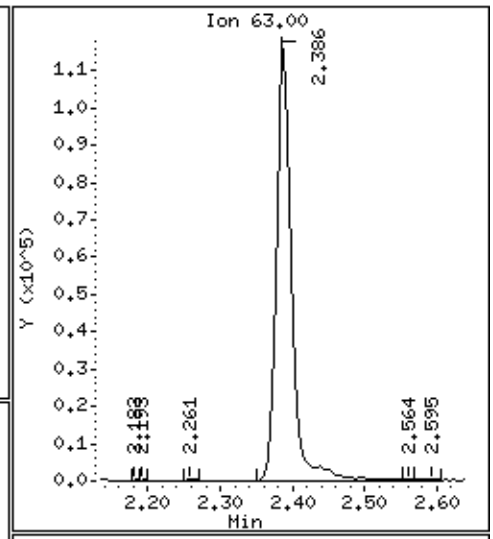
Concentration: 51.0 ppb

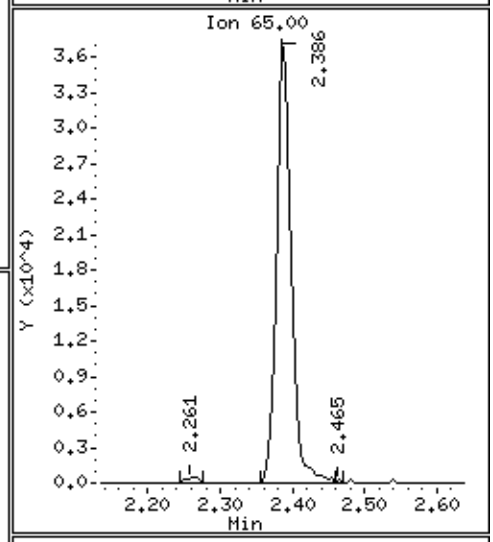


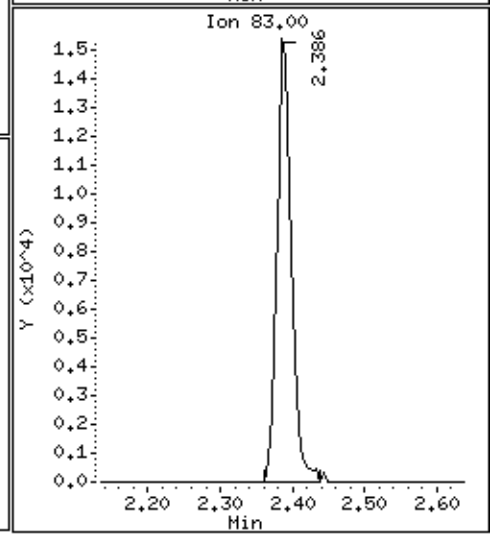












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

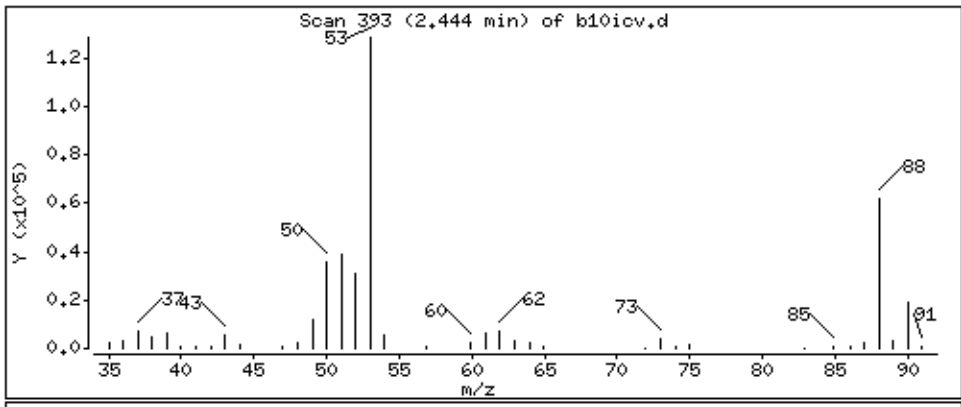
Purge Volume: 5.0

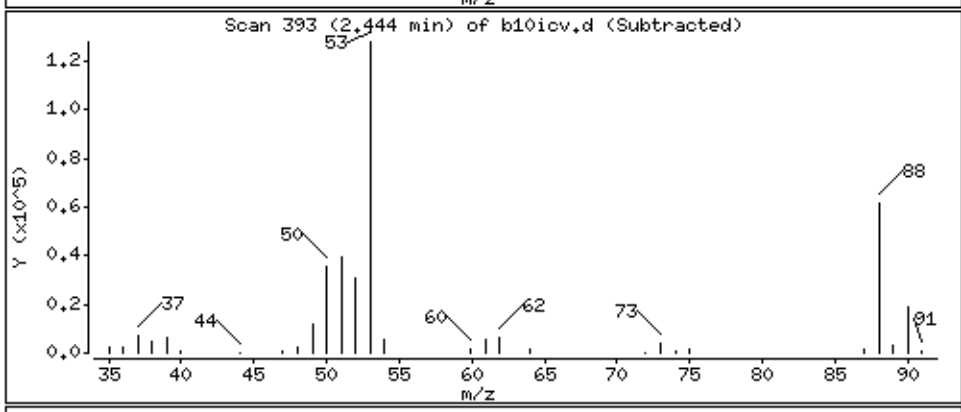
Operator: grm

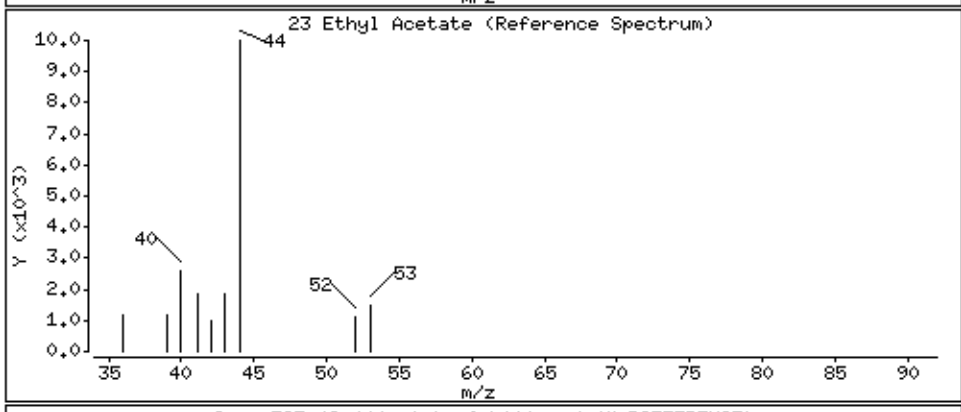
Column phase: DB-624

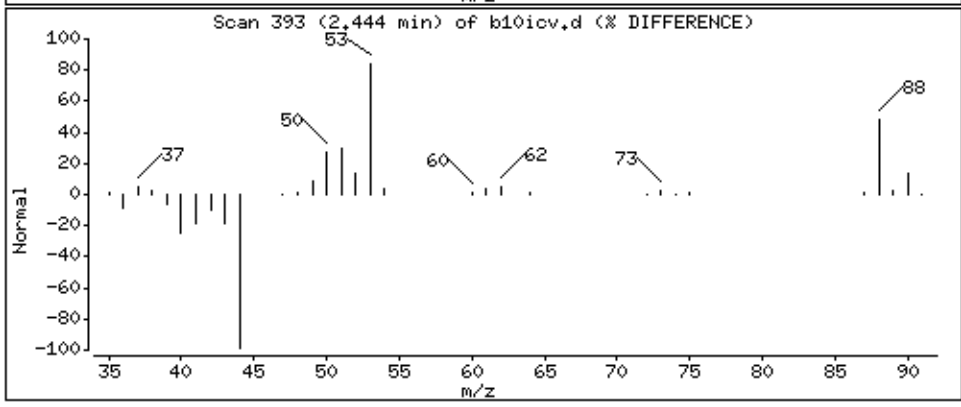
Column diameter: 0.18

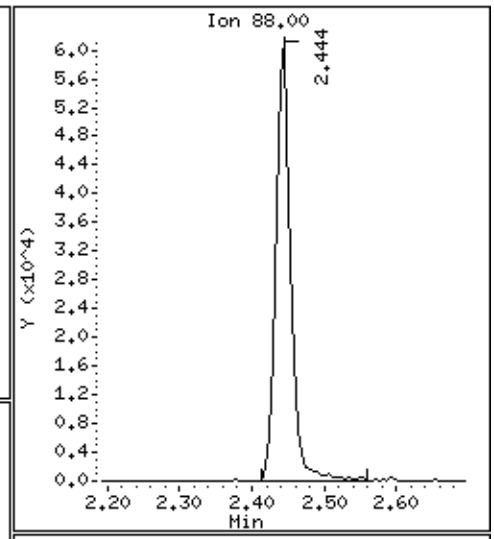
23 Ethyl Acetate

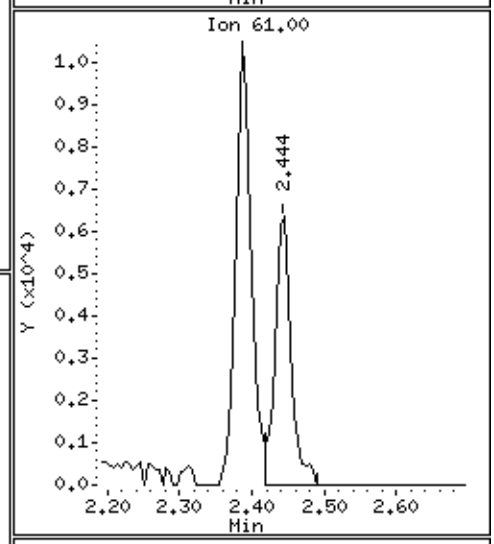


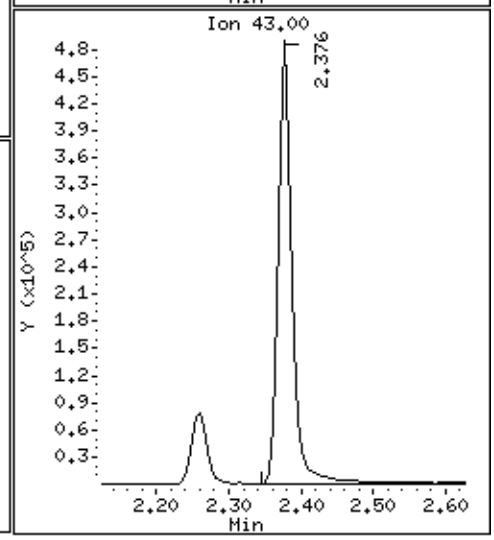












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

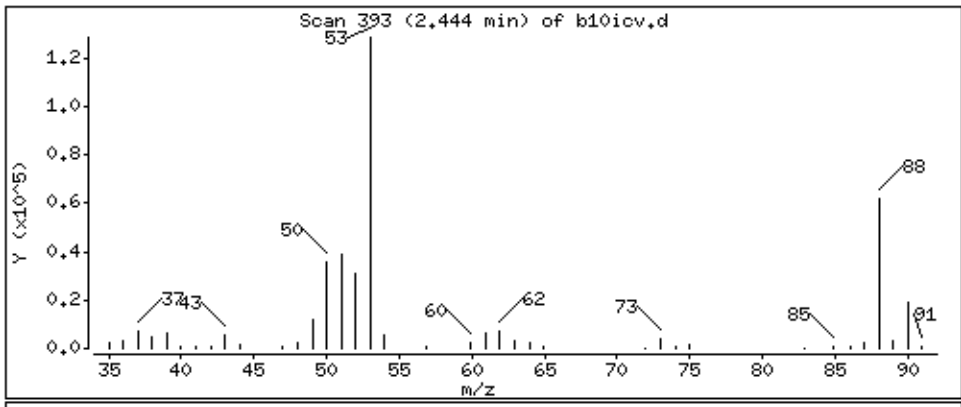
Operator: grm

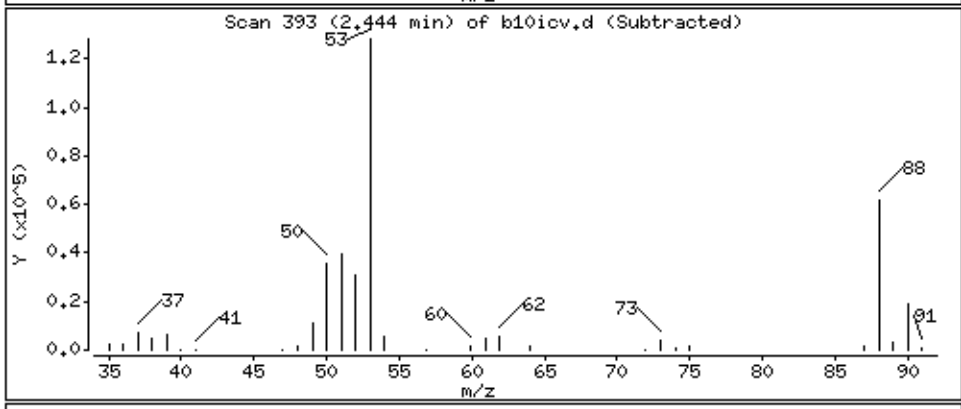
Column phase: DB-624

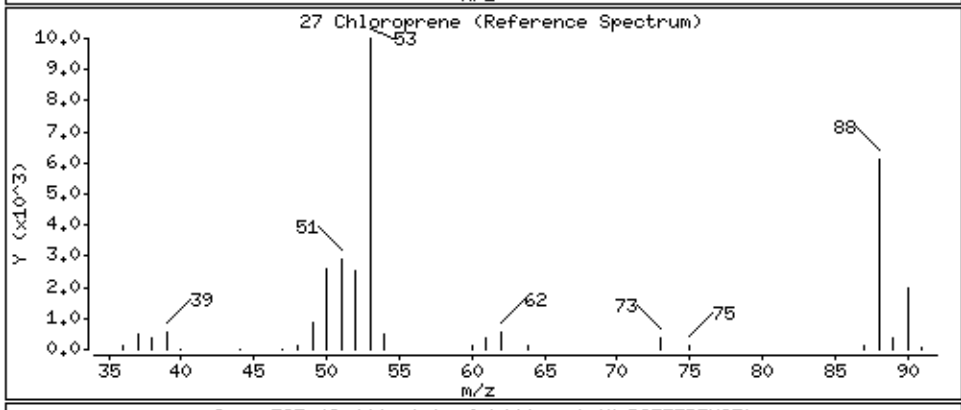
Column diameter: 0.18

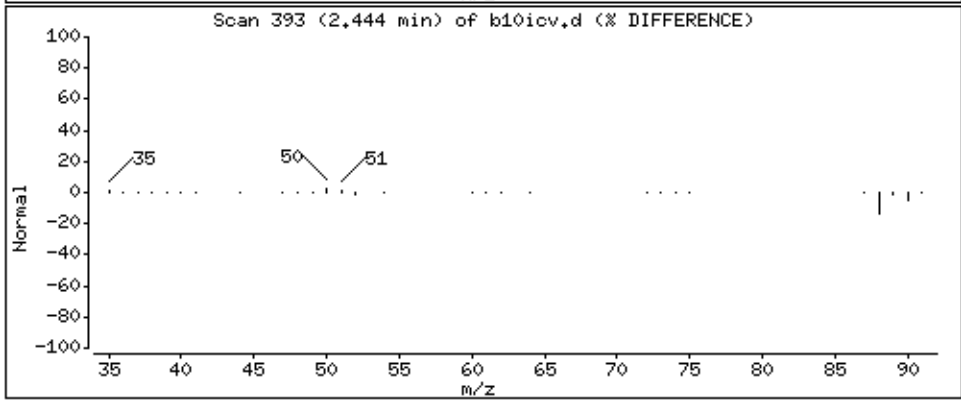
27 Chloroprene

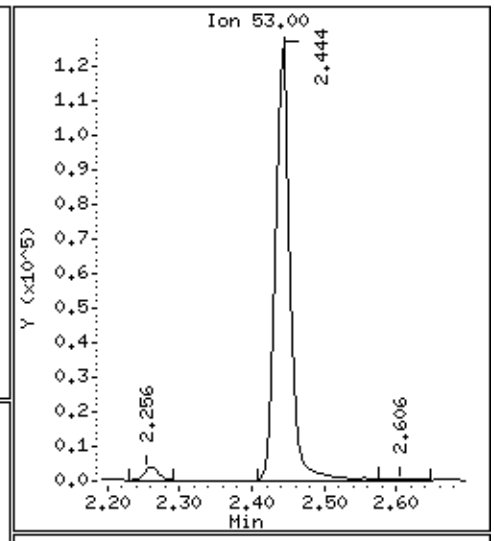
Concentration: 55.8 ppb

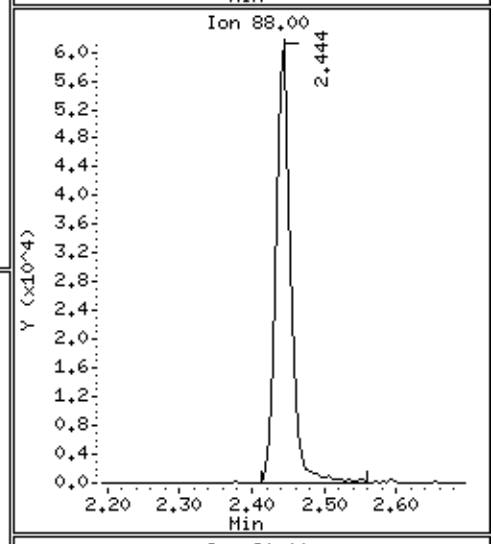


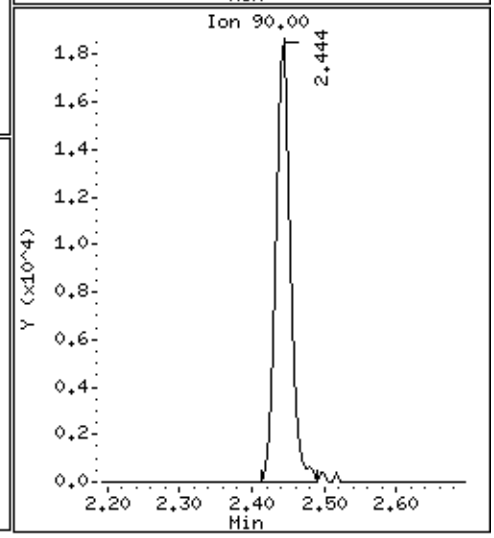












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

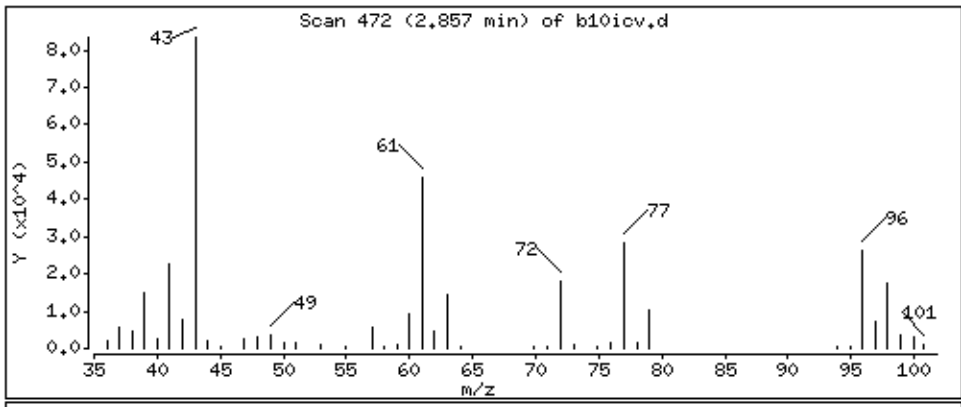
Operator: grm

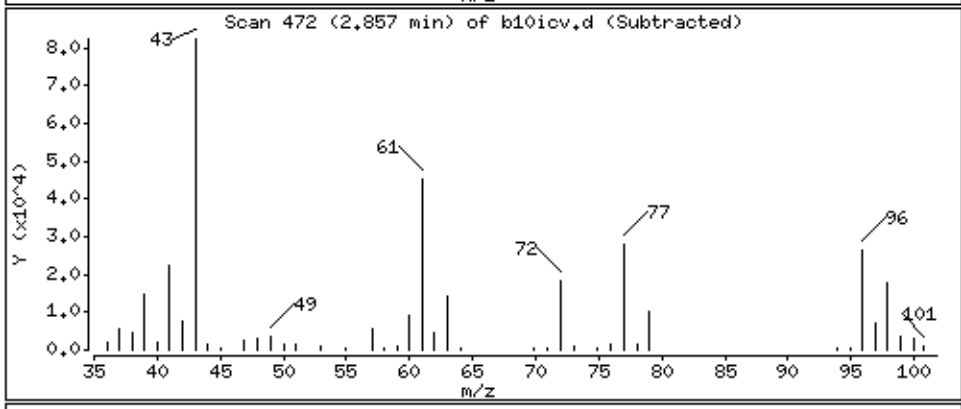
Column phase: DB-624

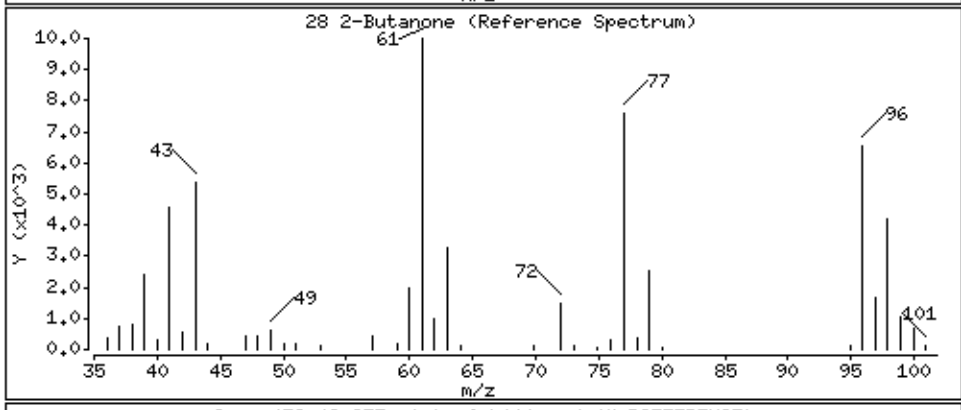
Column diameter: 0.18

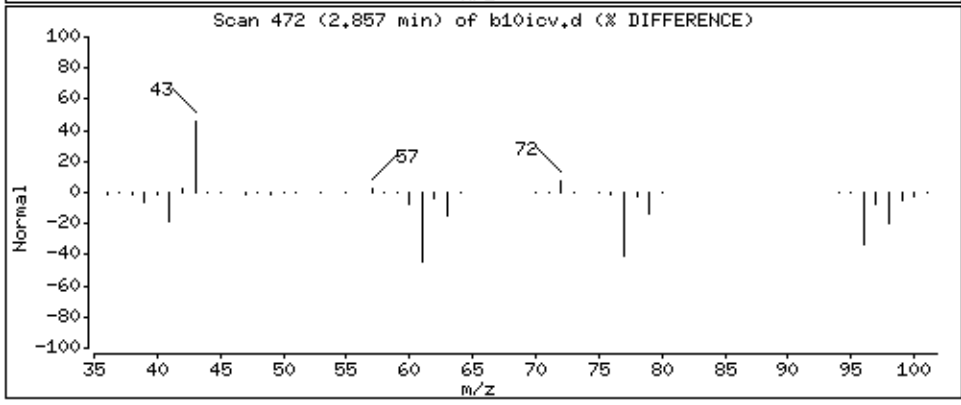
28 2-Butanone

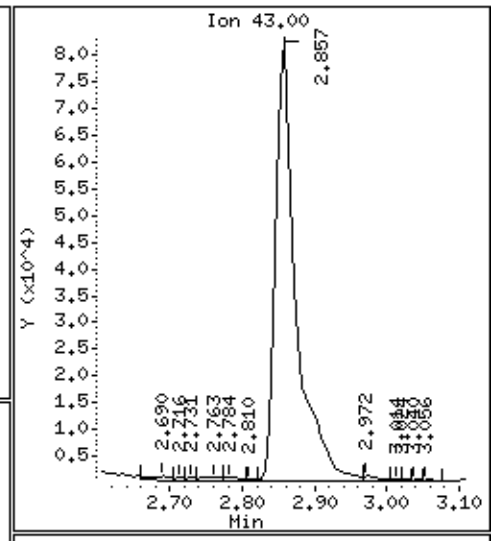
Concentration: 264 ppb

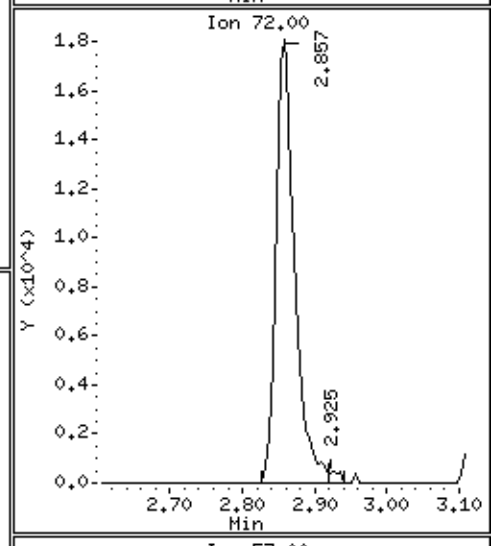


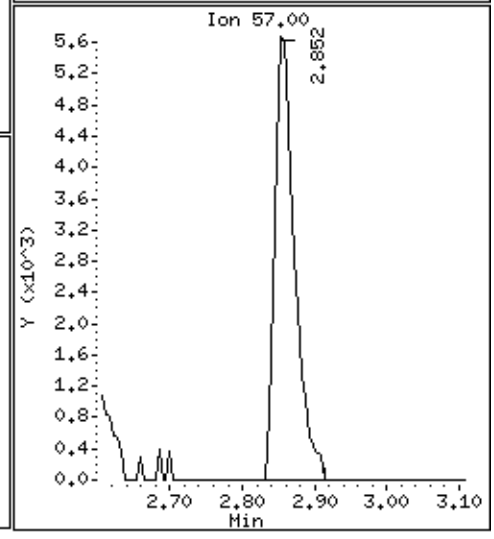












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

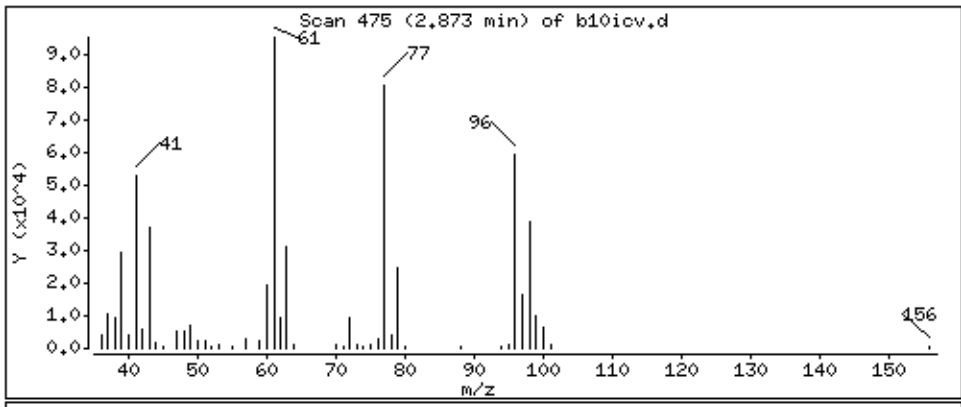
Operator: grm

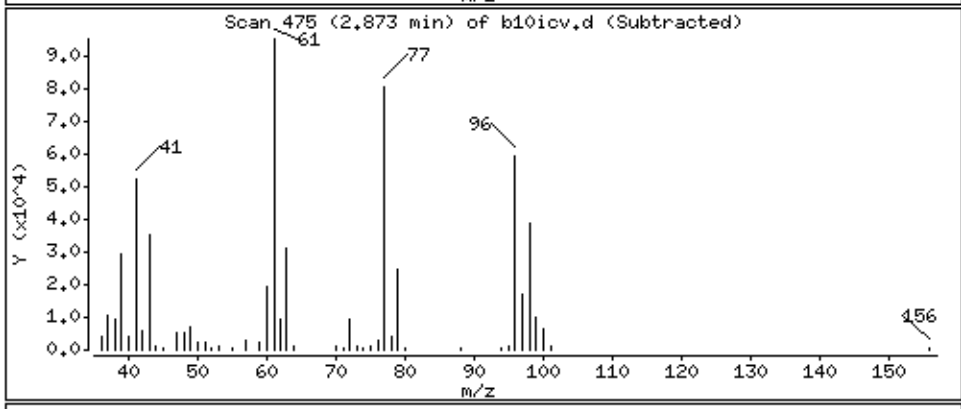
Column phase: DB-624

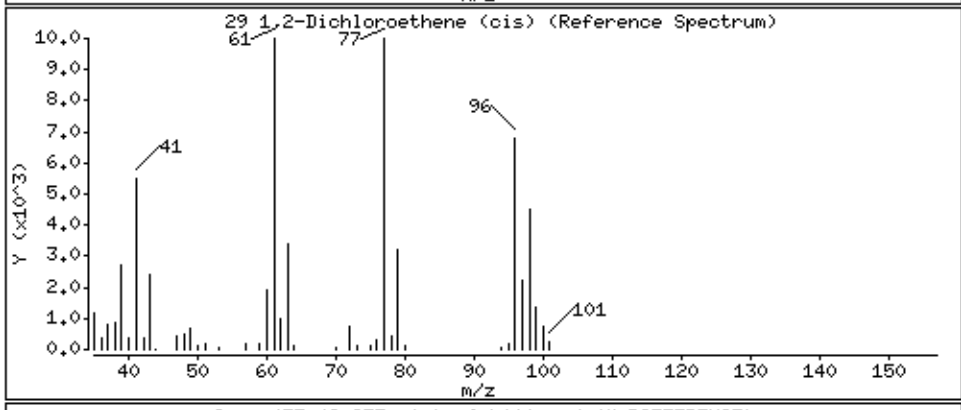
Column diameter: 0.18

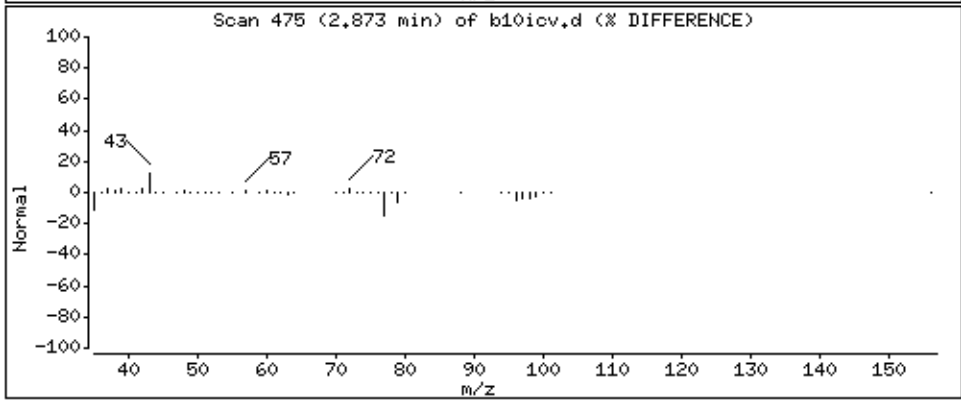
29 1,2-Dichloroethene (cis)

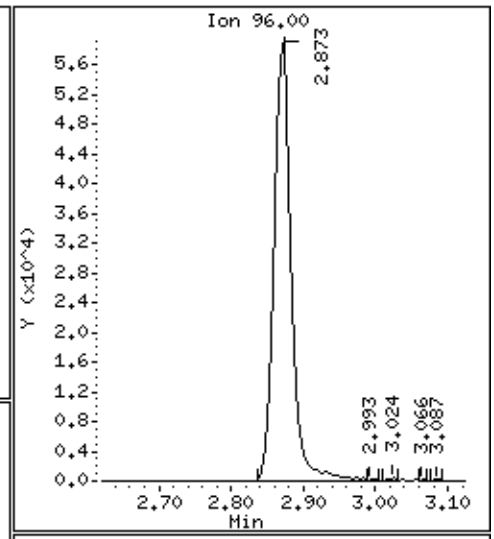
Concentration: 53.8 ppb

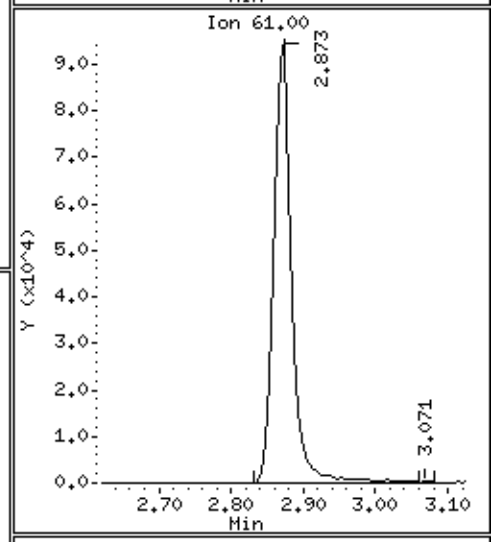


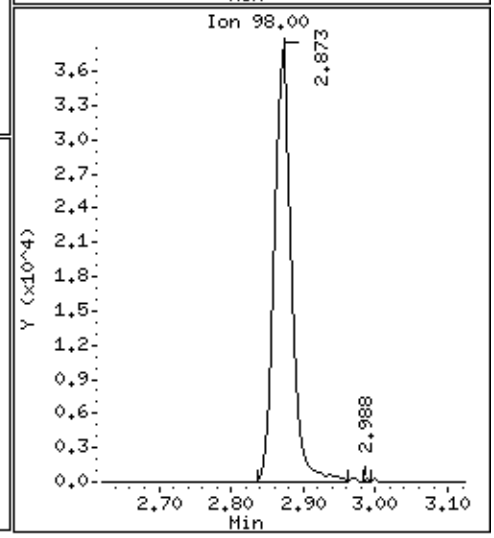












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

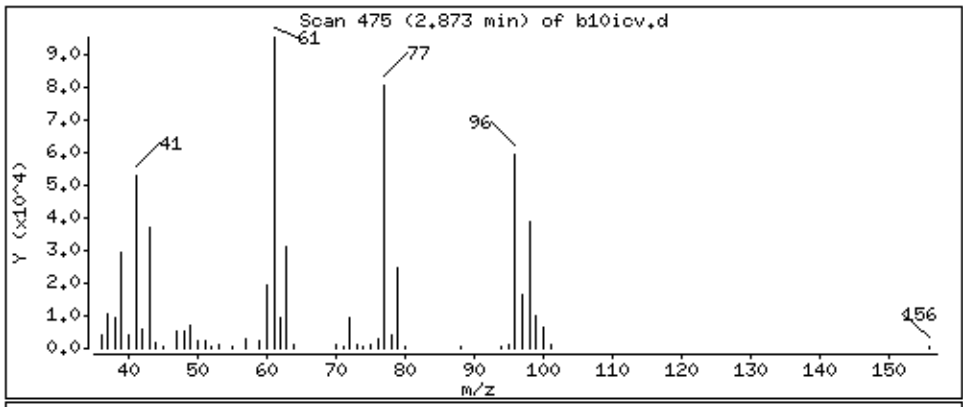
Operator: grm

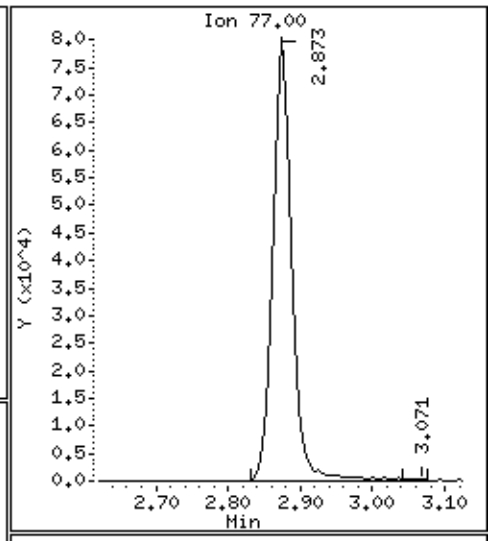
Column phase: DB-624

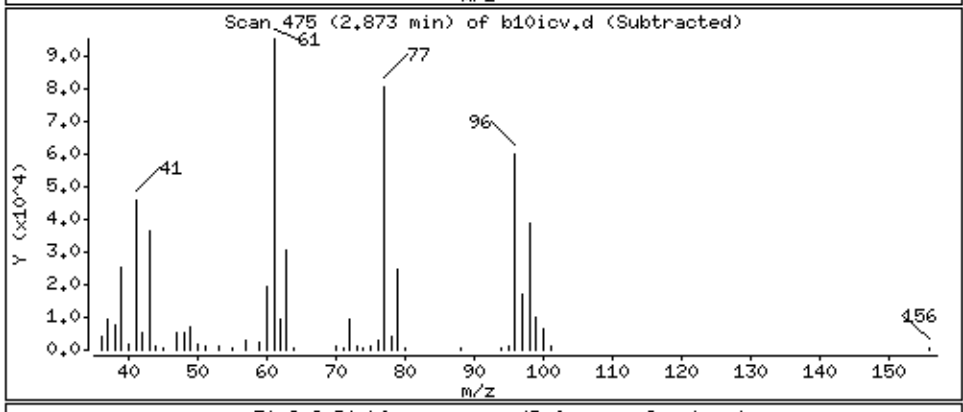
Column diameter: 0.18

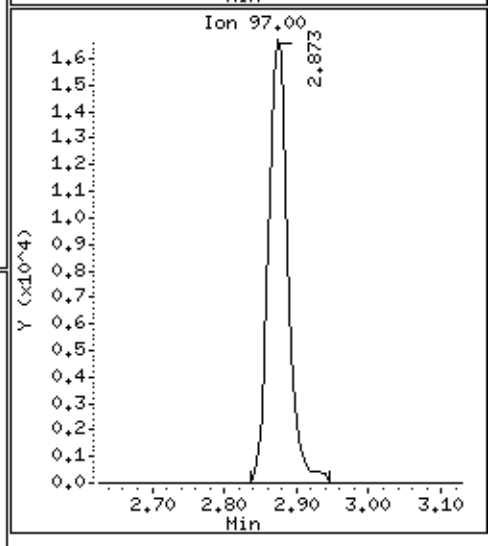
30 2,2-Dichloropropane

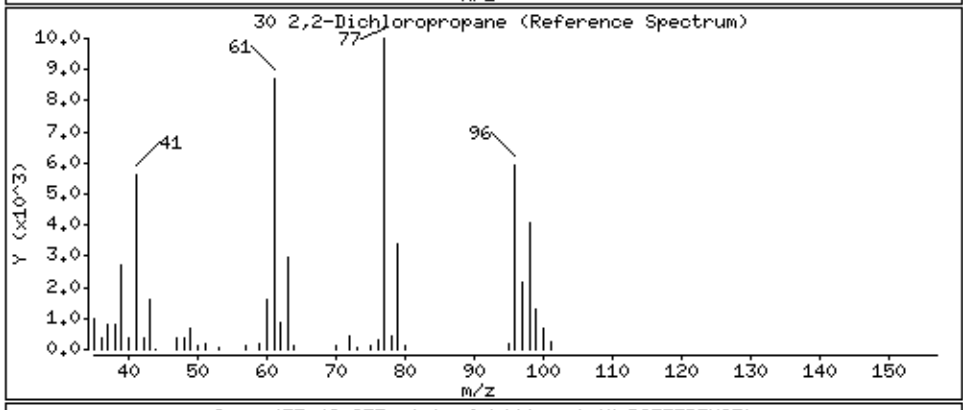
Concentration: 54.5 ppb

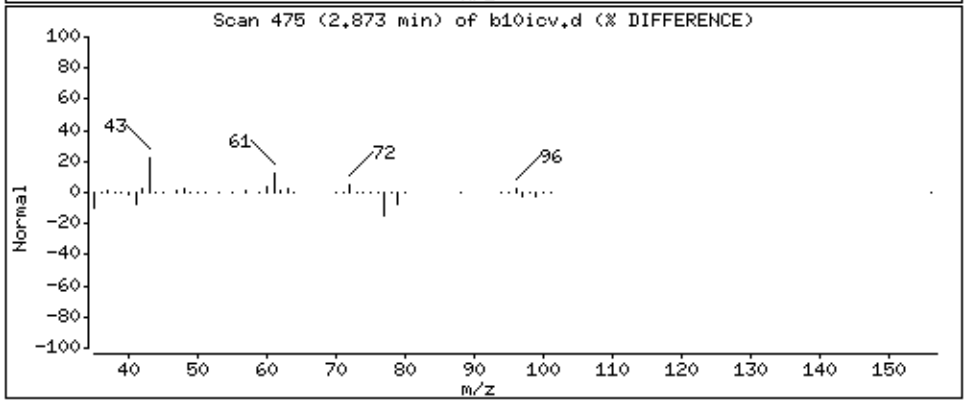












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 35

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

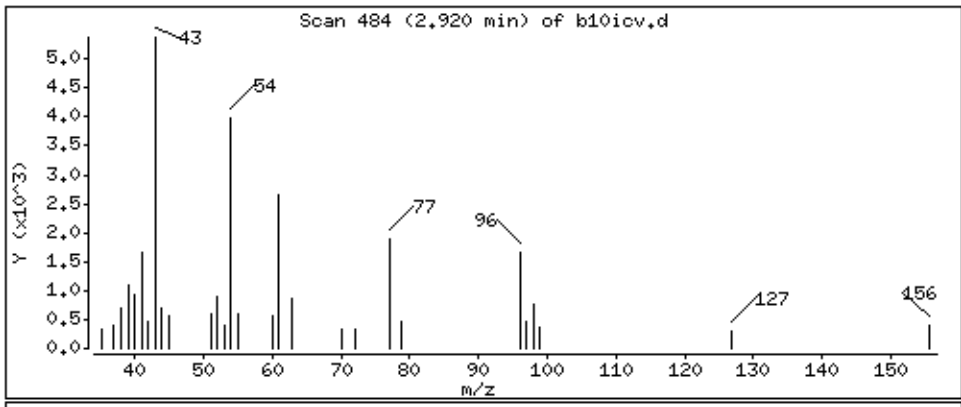
Operator: grm

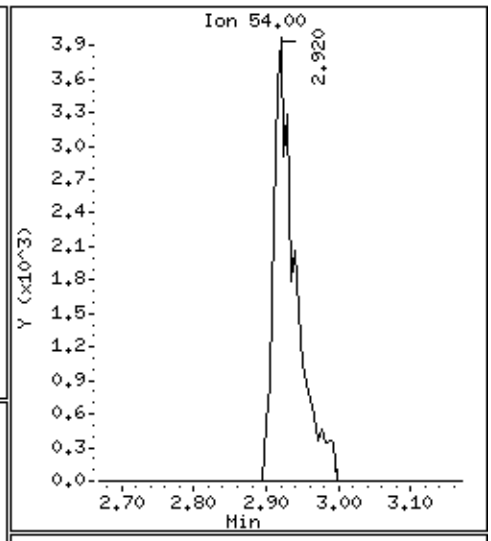
Column phase: DB-624

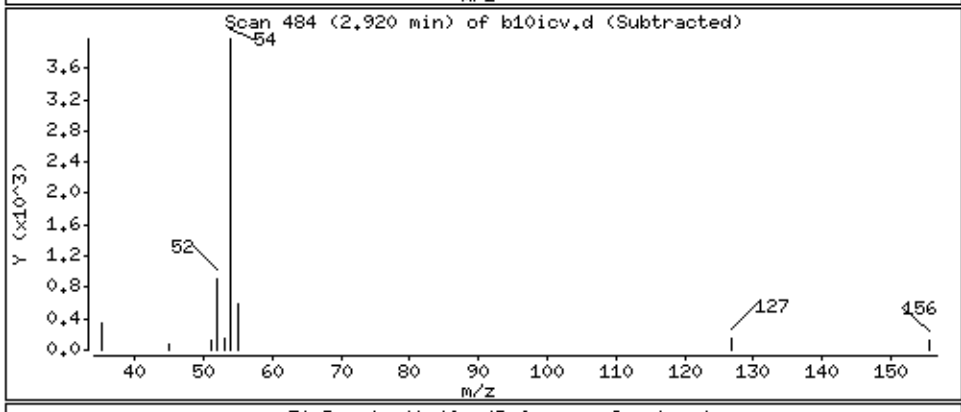
Column diameter: 0.18

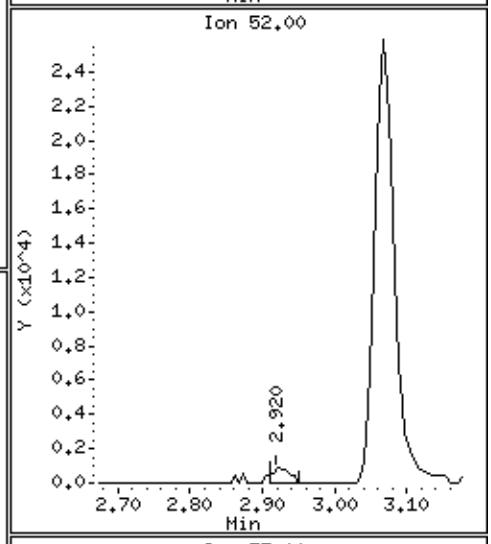
31 Propionitrile

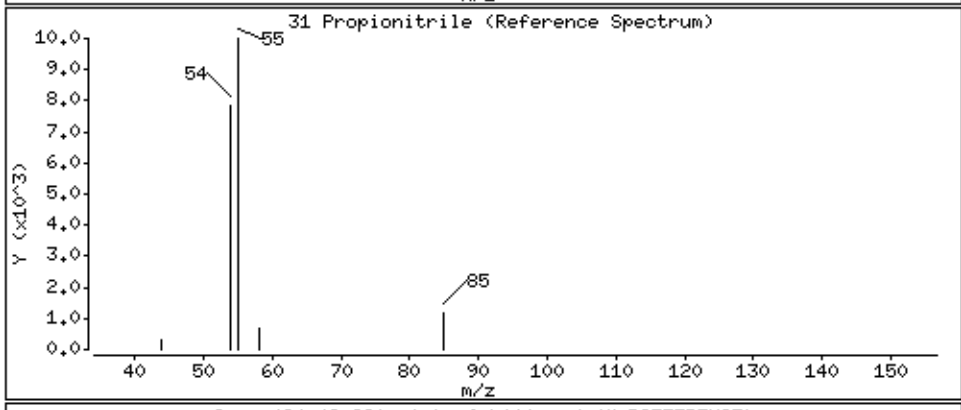
Concentration: 43.7 ppb

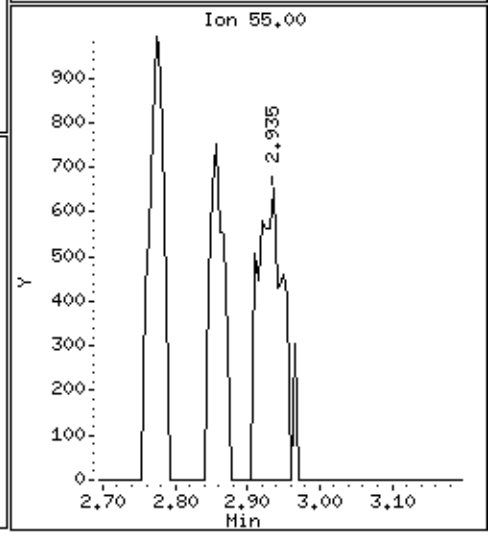


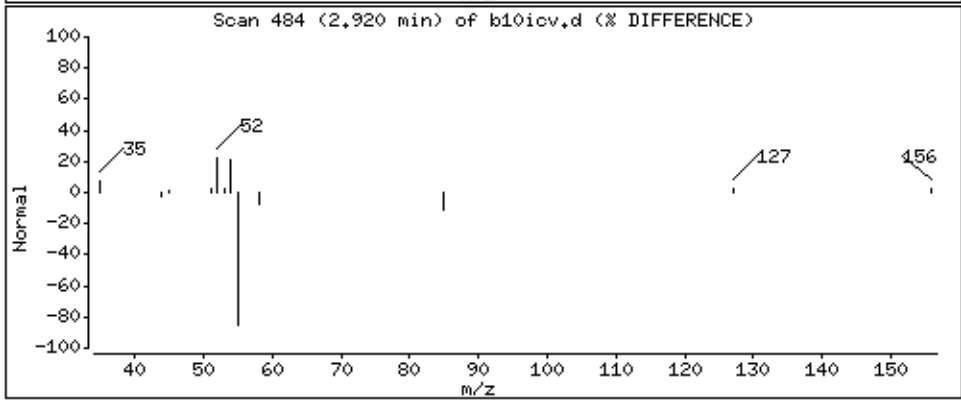












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

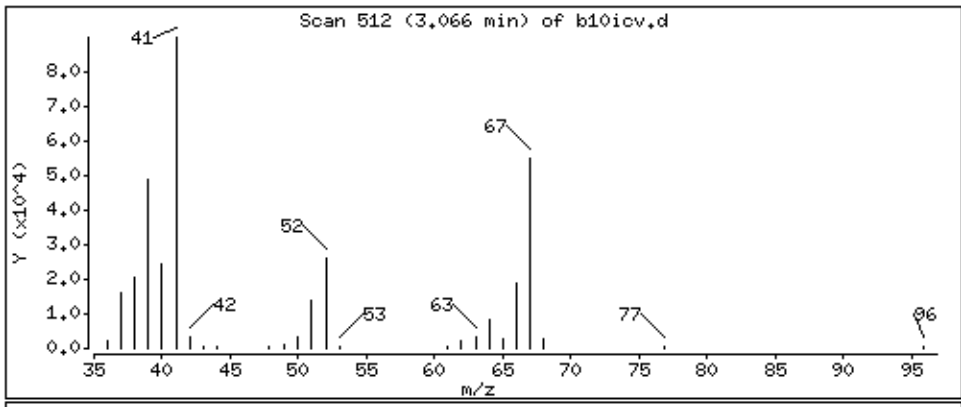
Operator: grm

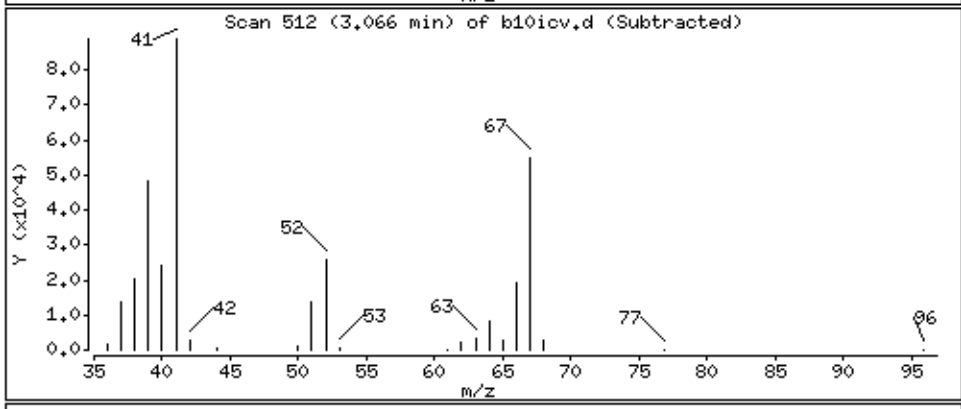
Column phase: DB-624

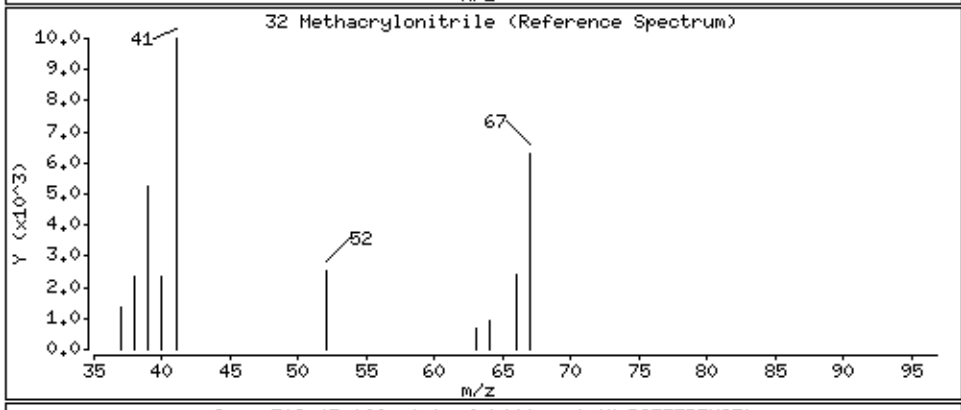
Column diameter: 0.18

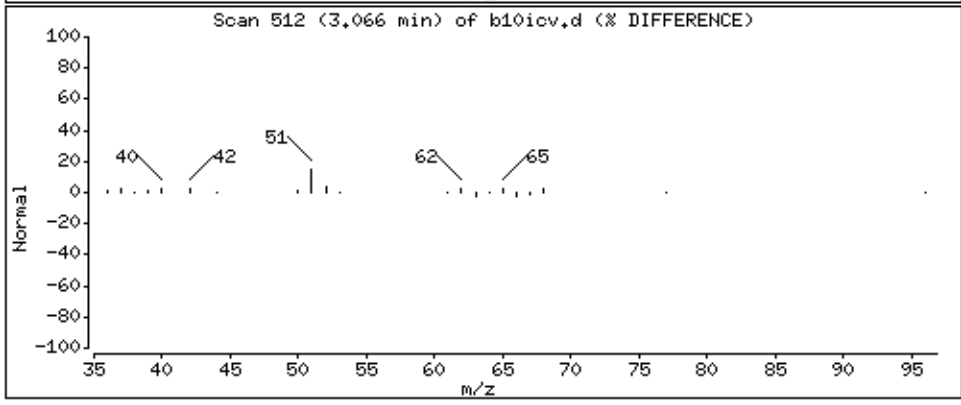
32 Methacrylonitrile

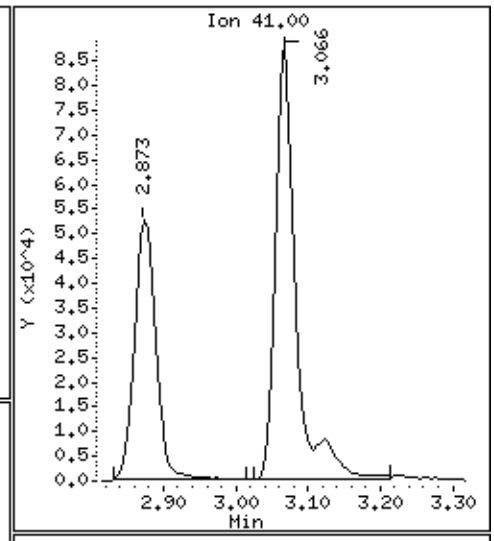
Concentration: 204 ppb

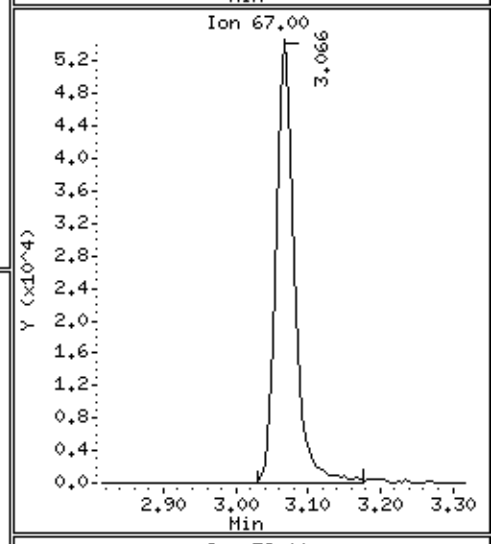


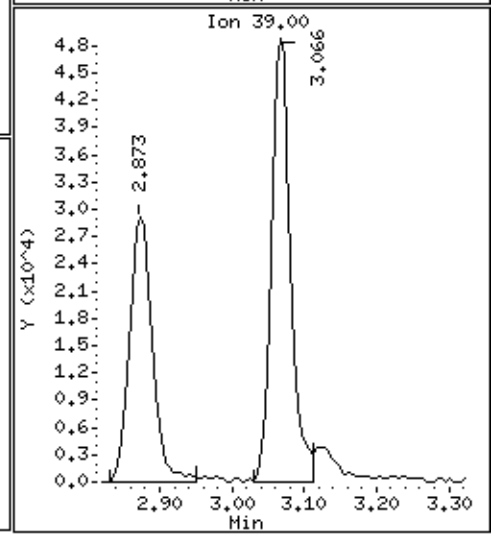












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

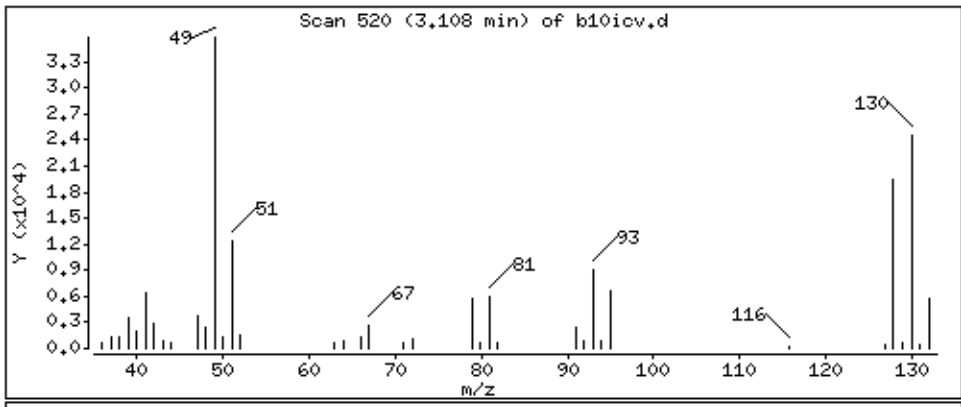
Operator: grm

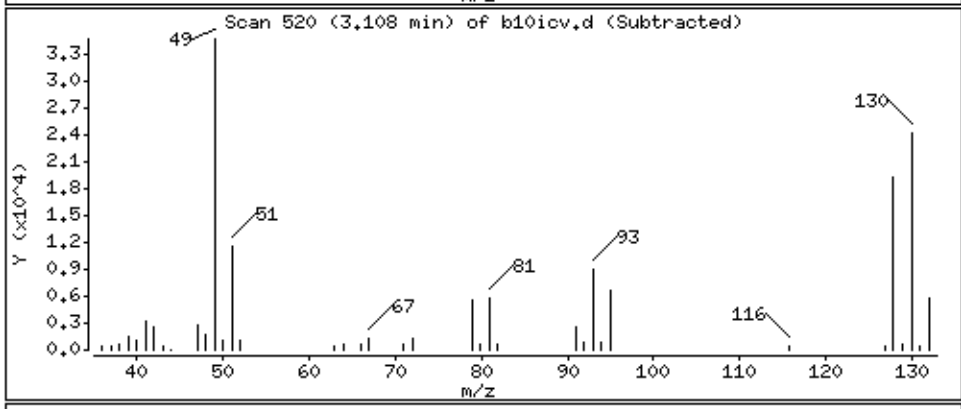
Column phase: DB-624

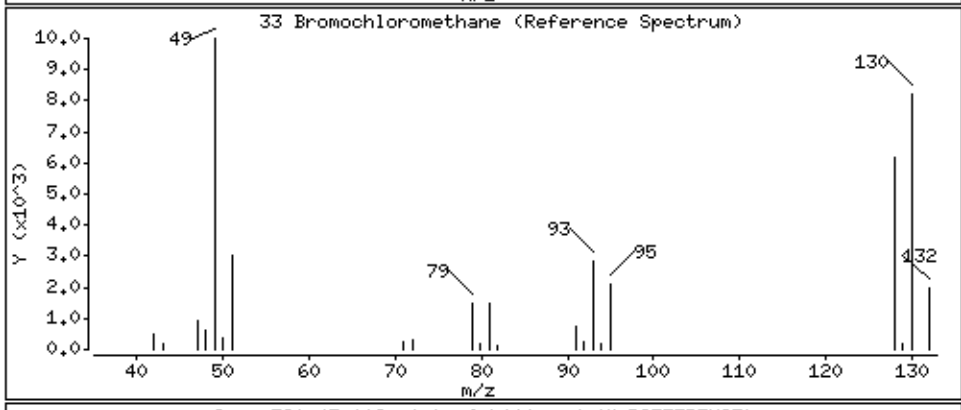
Column diameter: 0.18

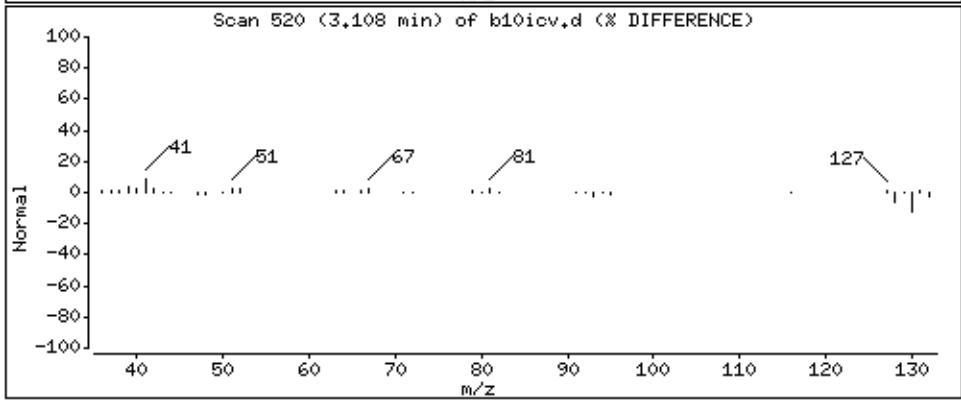
33 Bromochloromethane

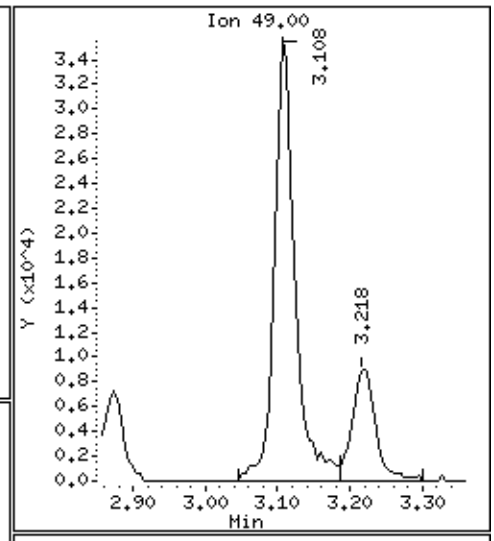
Concentration: 51.8 ppb

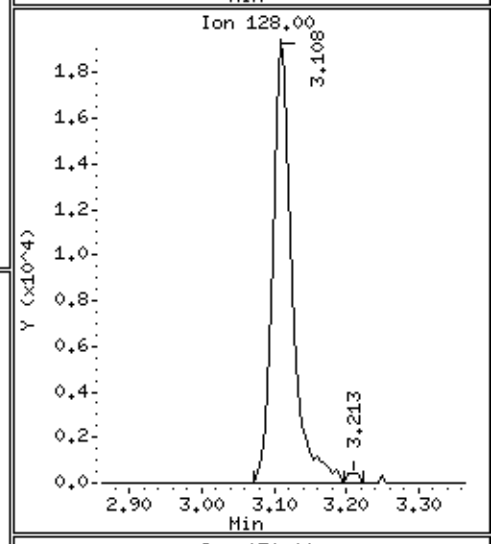


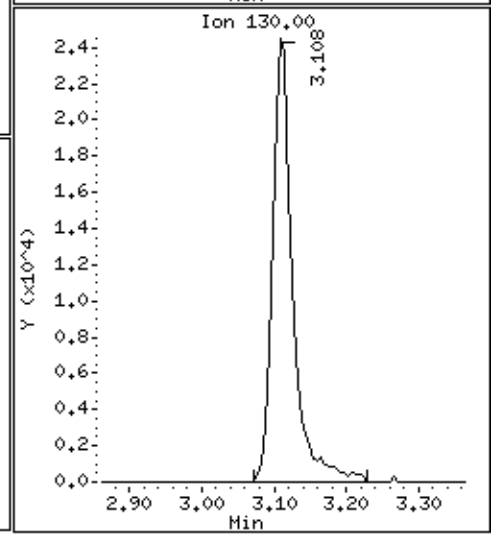












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

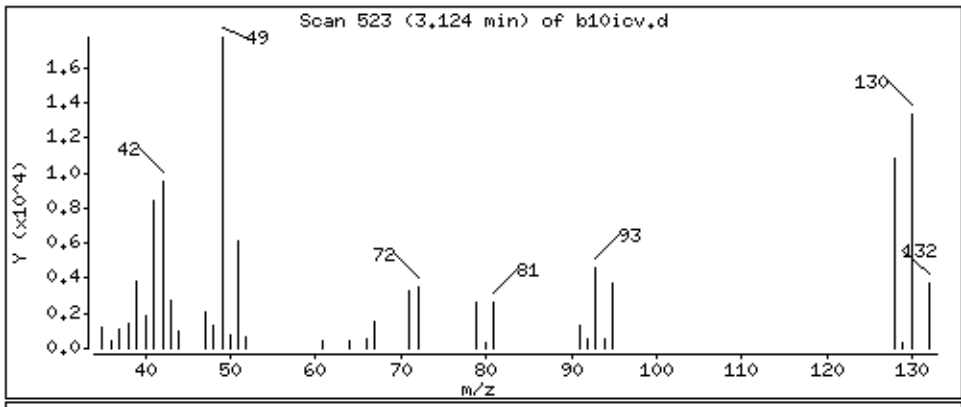
Operator: grm

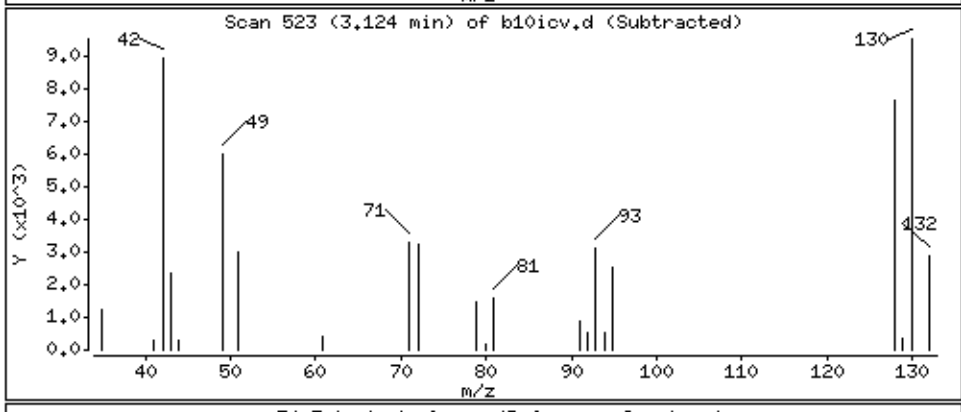
Column phase: DB-624

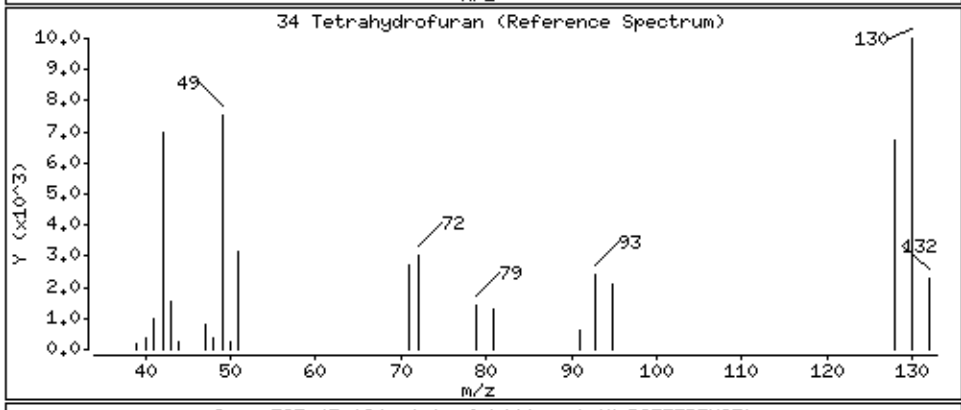
Column diameter: 0.18

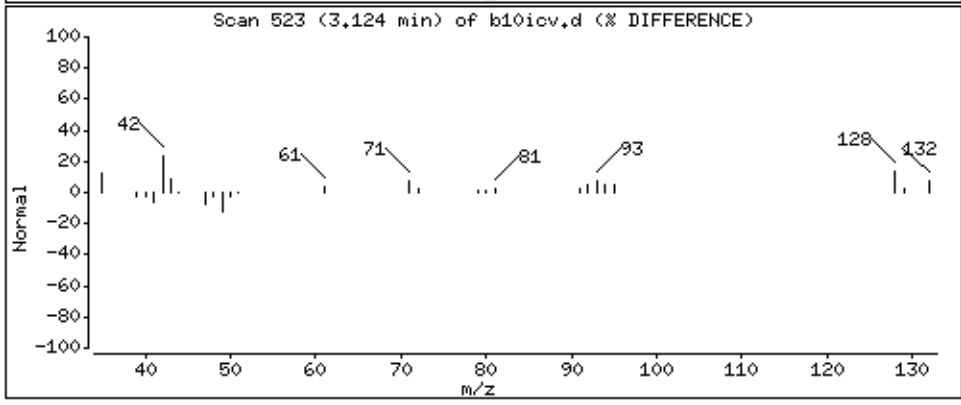
34 Tetrahydrofuran

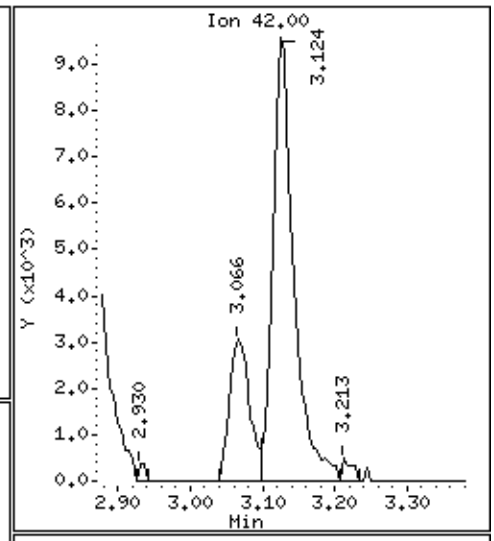
Concentration: 44.7 ppb

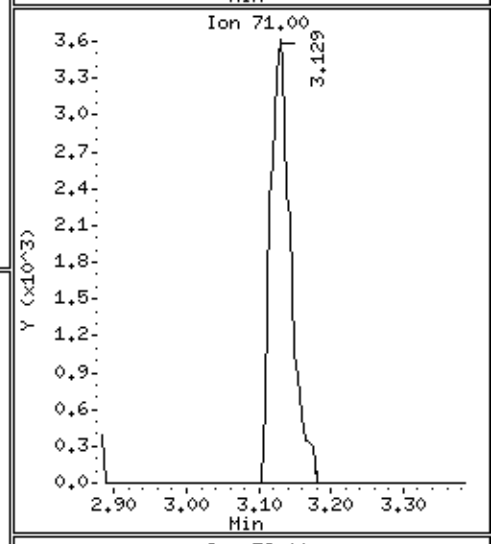


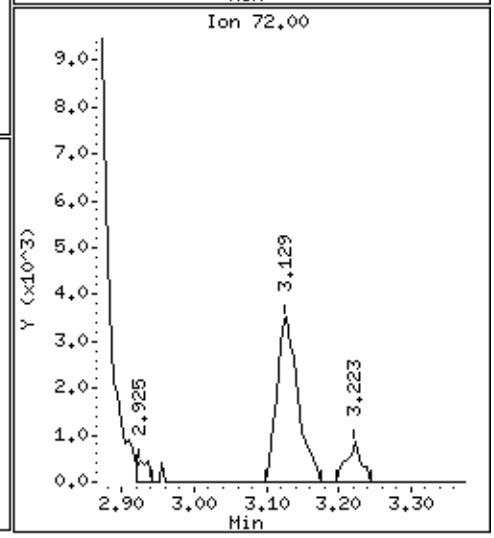












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

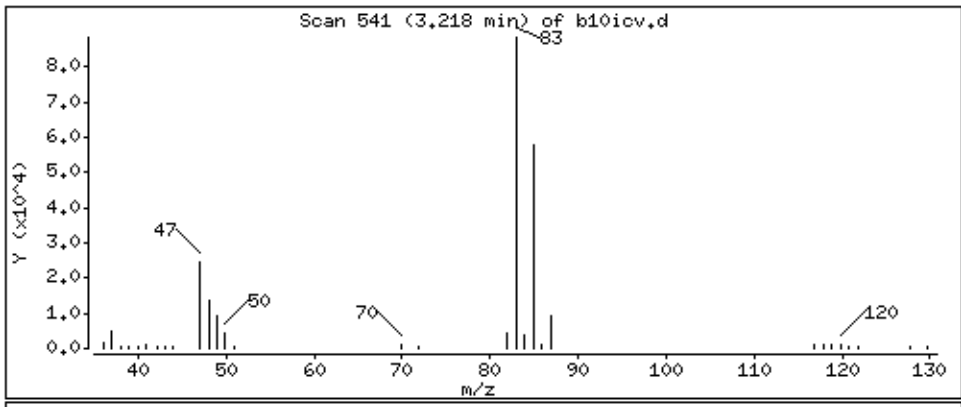
Operator: grm

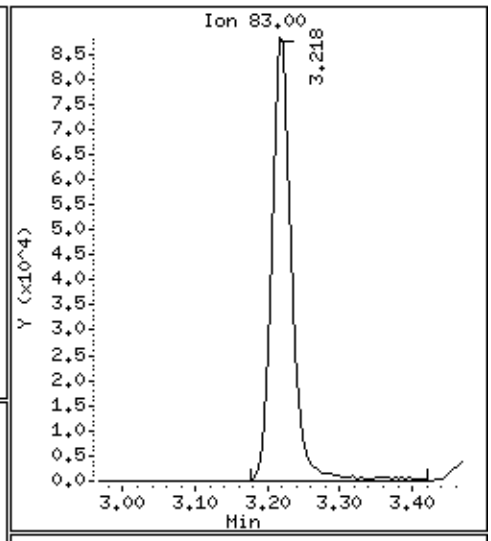
Column phase: DB-624

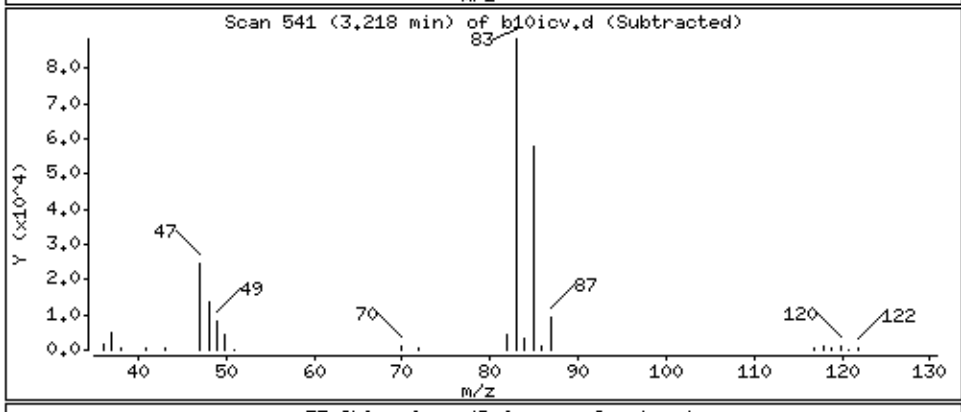
Column diameter: 0.18

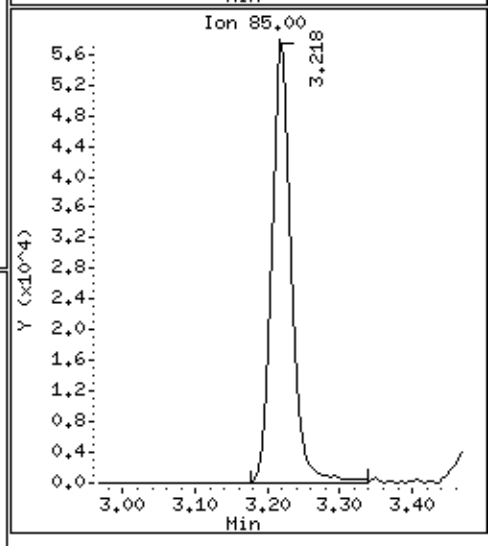
35 Chloroform

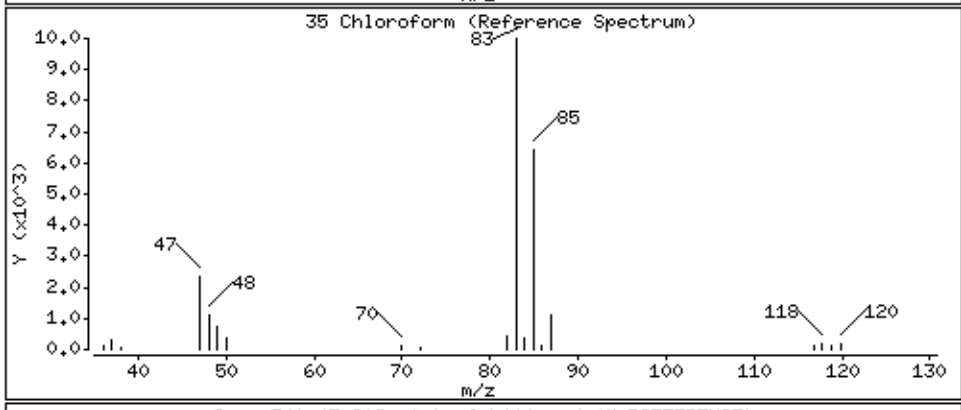
Concentration: 51.5 ppb

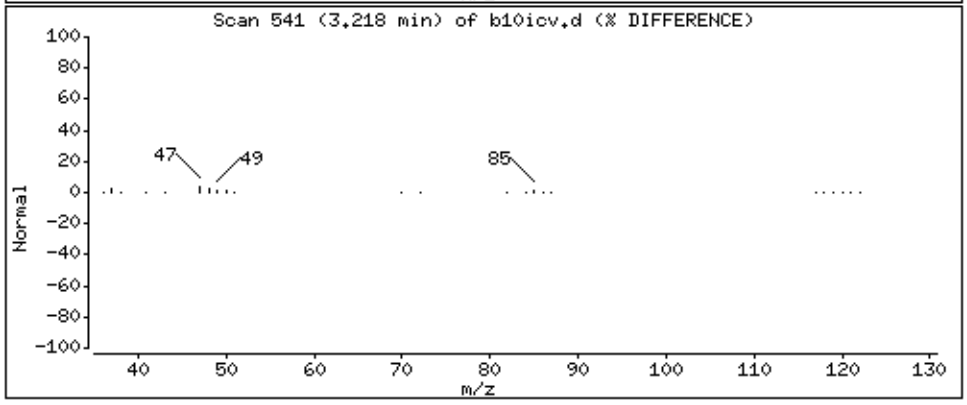












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

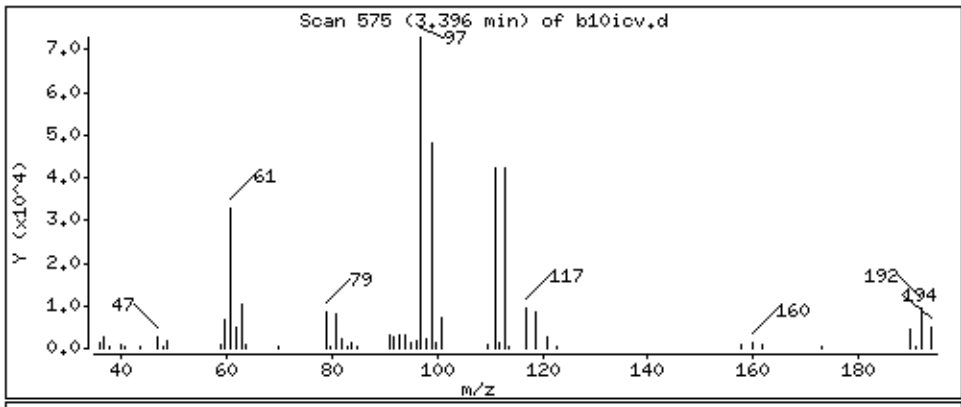
Purge Volume: 5.0

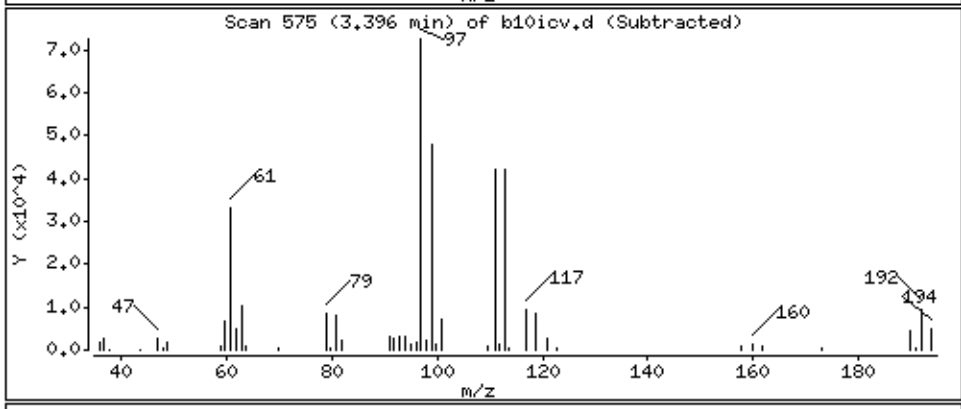
Operator: grm

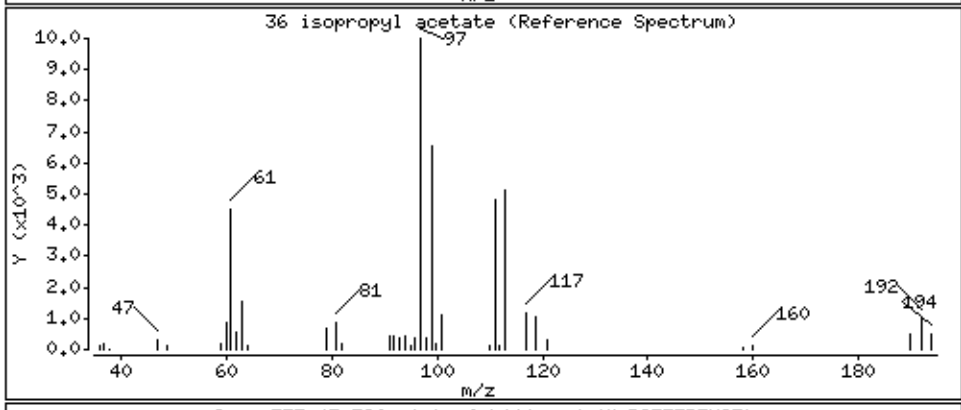
Column phase: DB-624

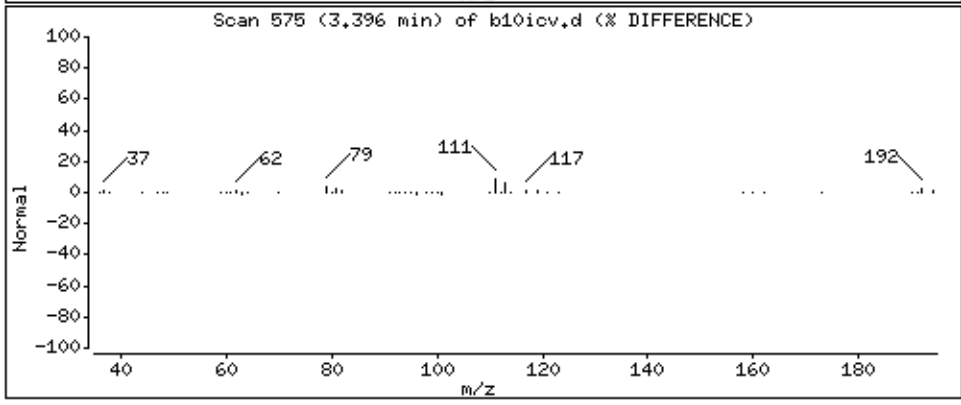
Column diameter: 0.18

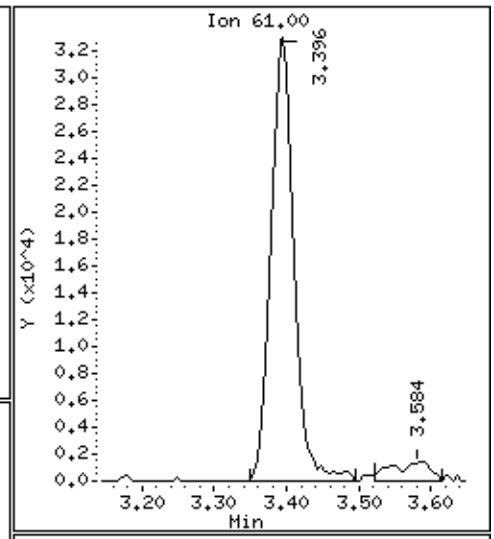
36 isopropyl acetate

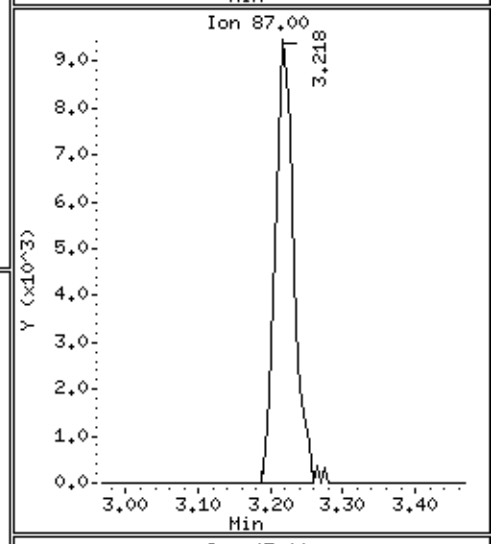


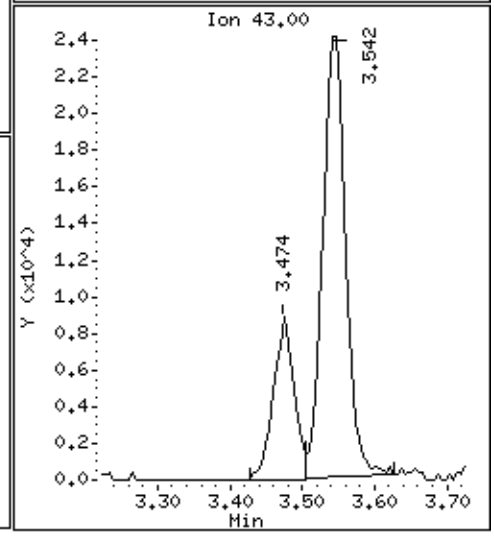












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

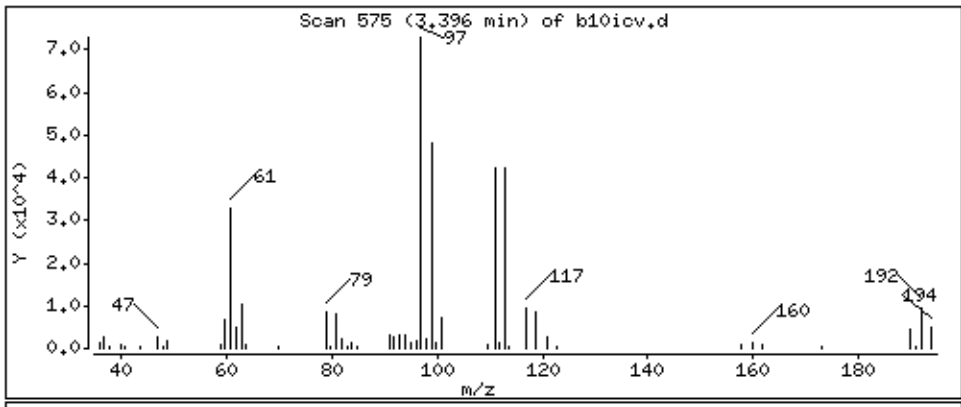
Operator: grm

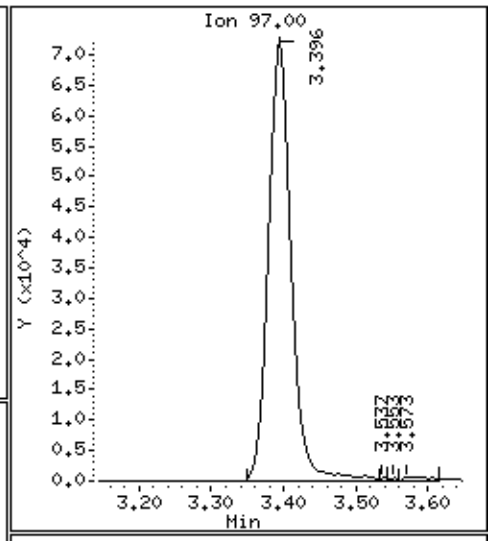
Column phase: DB-624

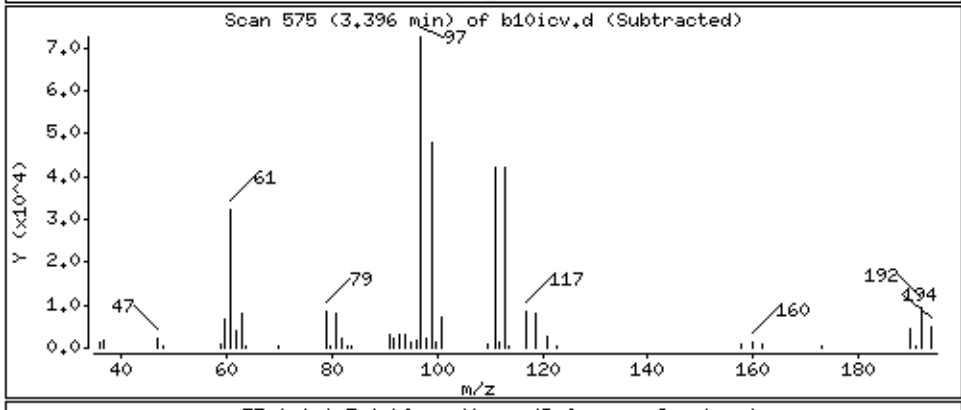
Column diameter: 0.18

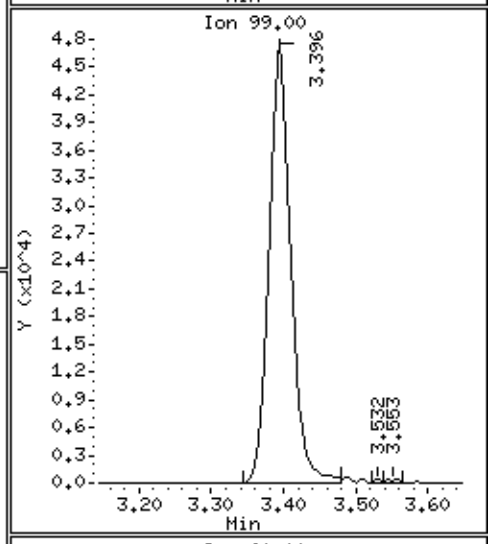
37 1,1,1-Trichloroethane

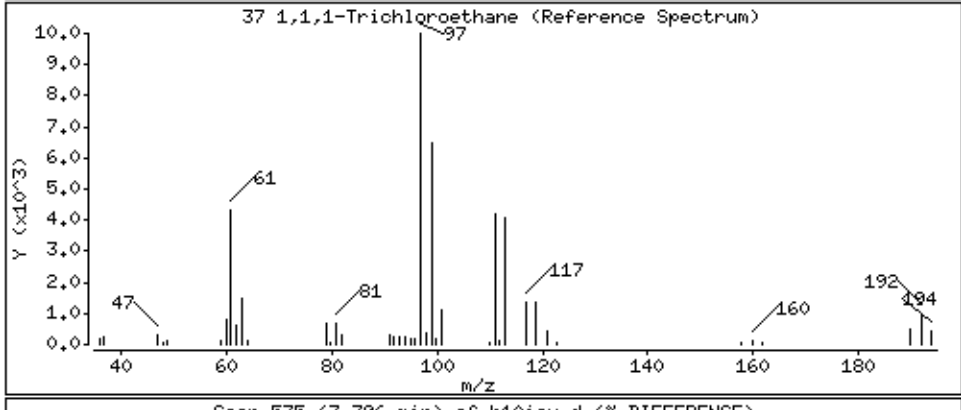
Concentration: 52.7 ppb

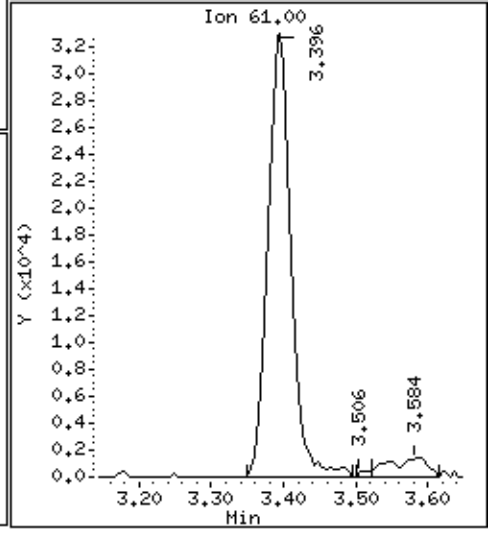


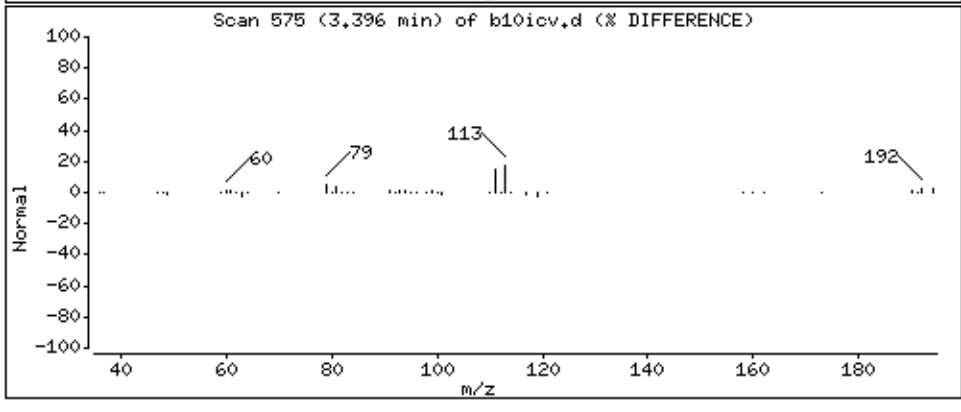












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

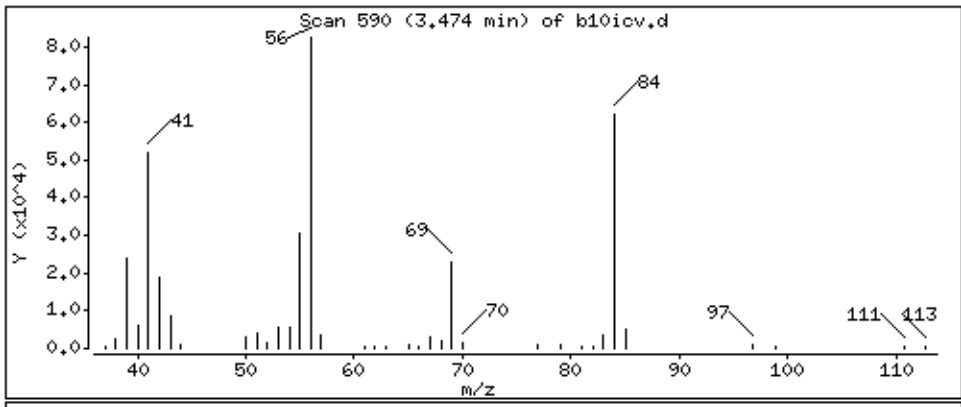
Operator: grm

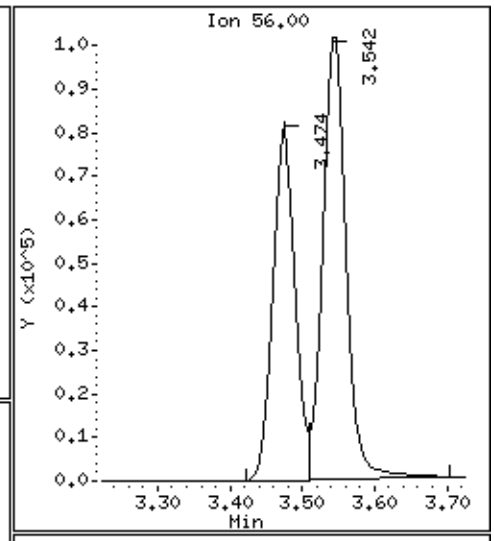
Column phase: DB-624

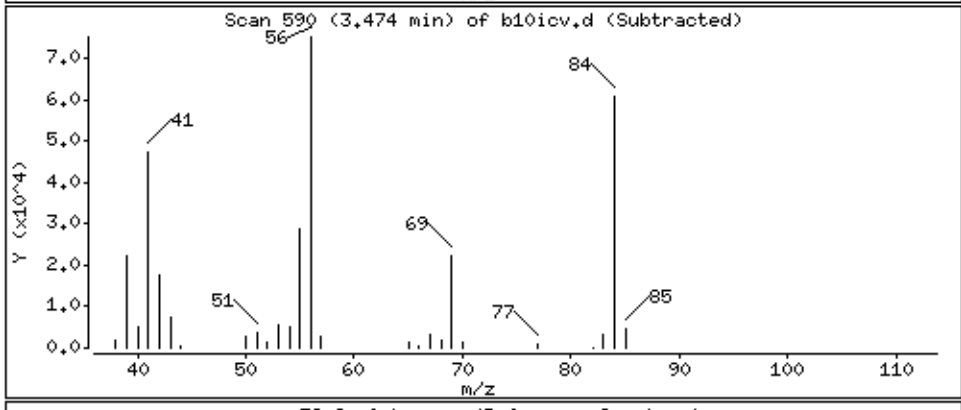
Column diameter: 0.18

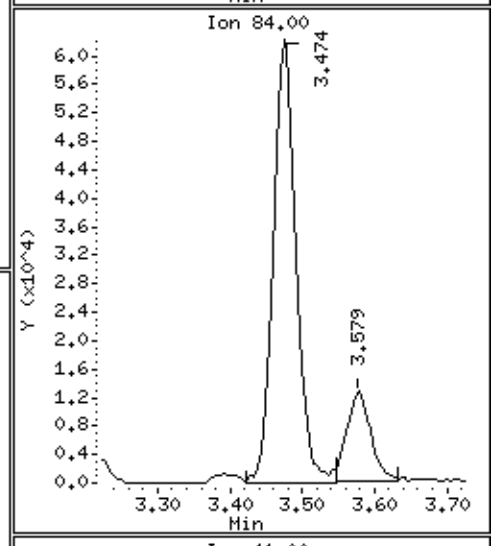
39 Cyclohexane

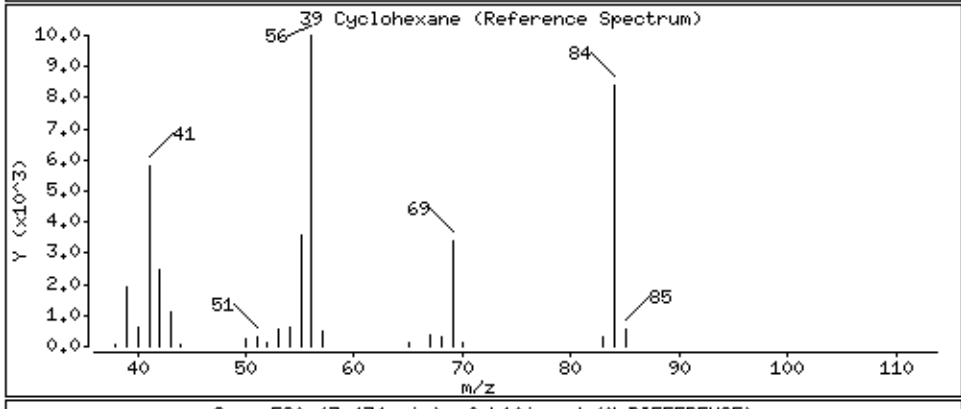
Concentration: 50.4 ppb

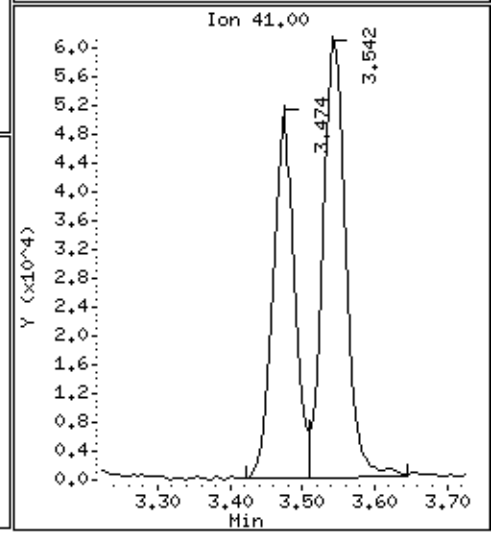


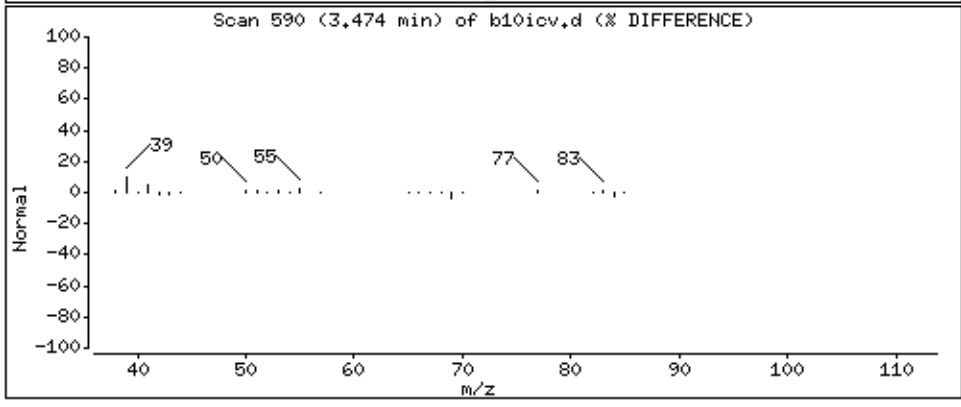












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

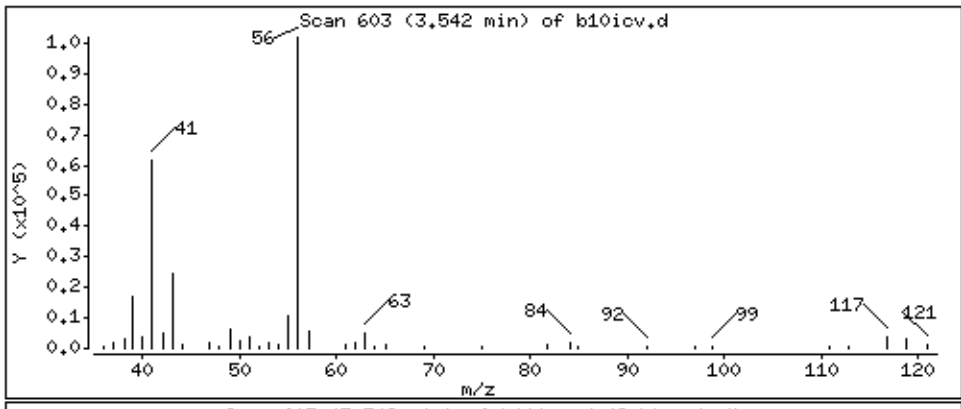
Operator: grm

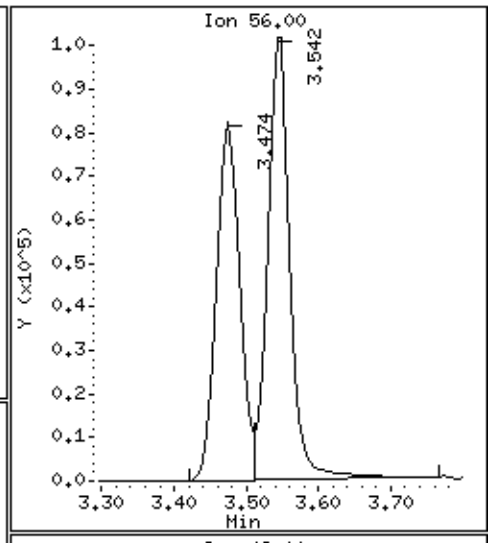
Column phase: DB-624

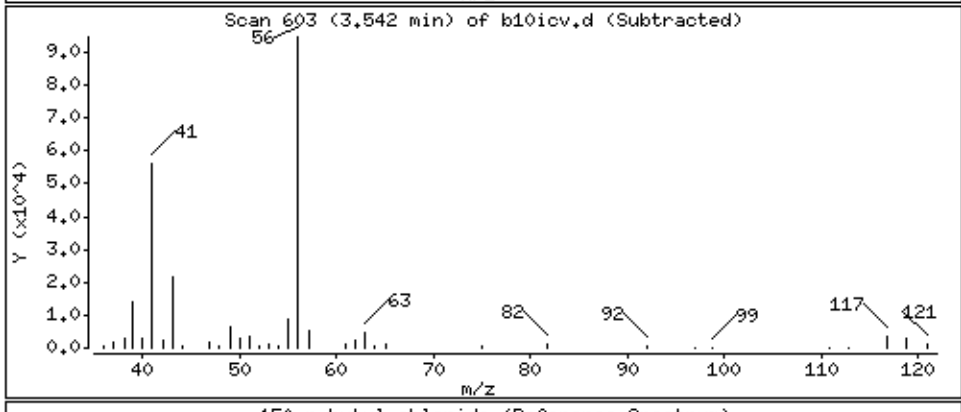
Column diameter: 0.18

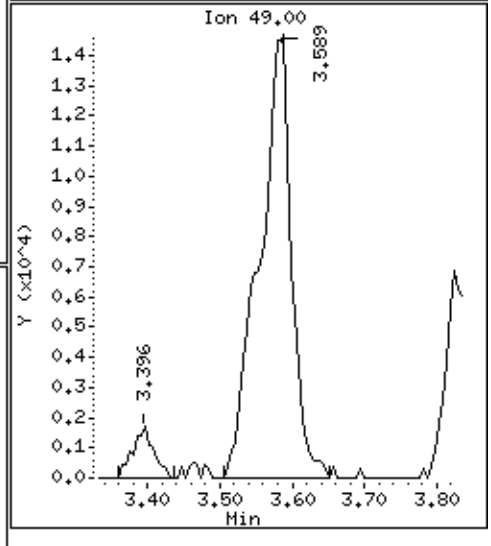
150 n-butyl chloride

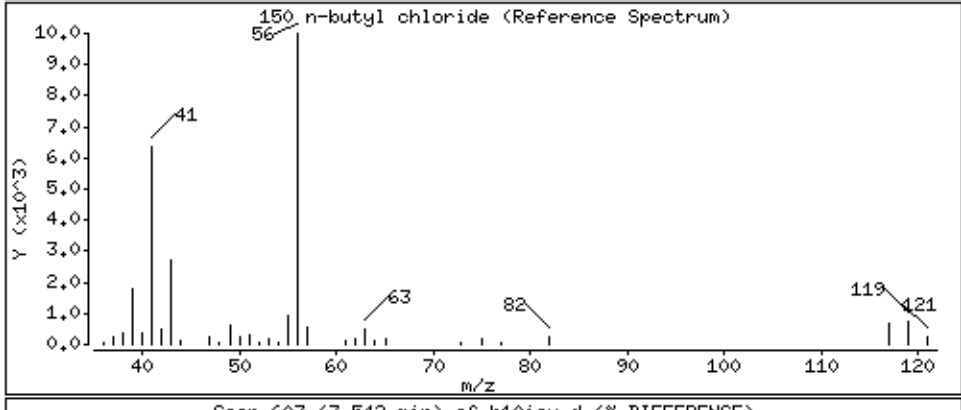
Concentration: 51.4 ppb

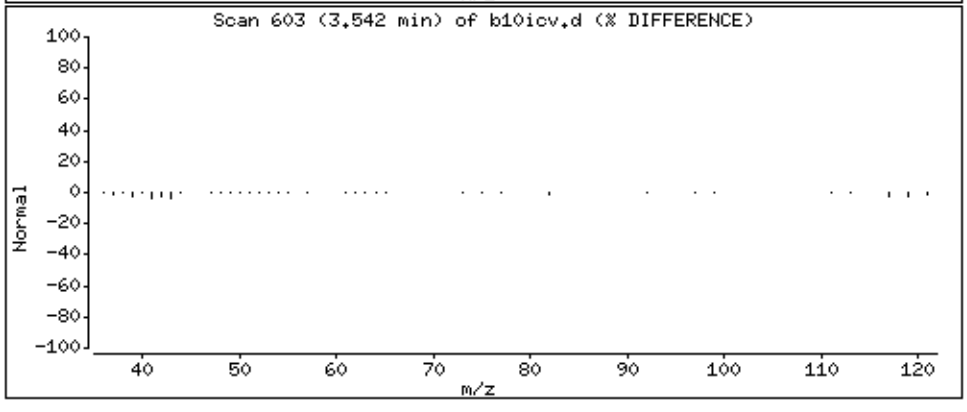












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

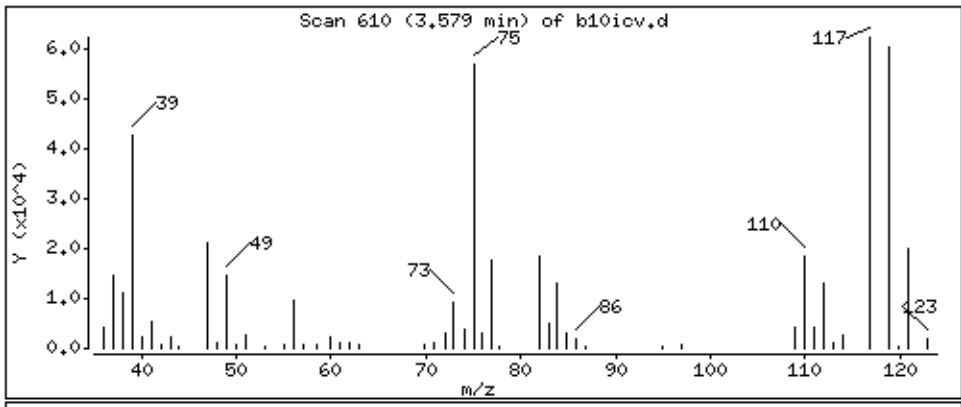
Operator: grm

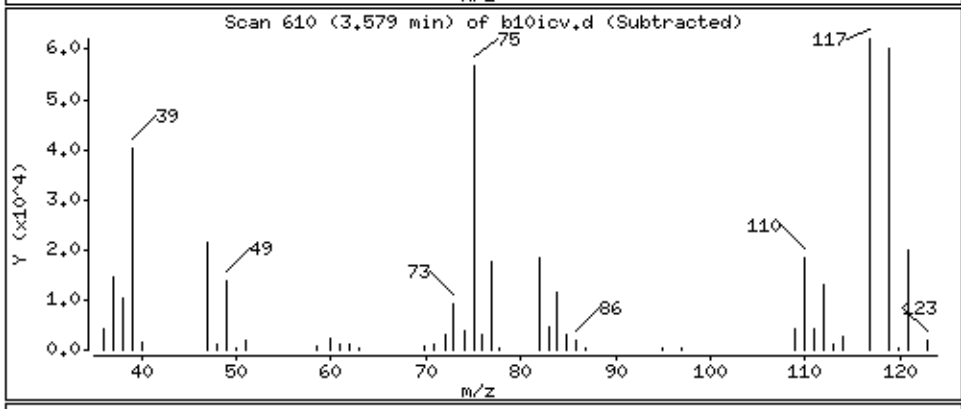
Column phase: DB-624

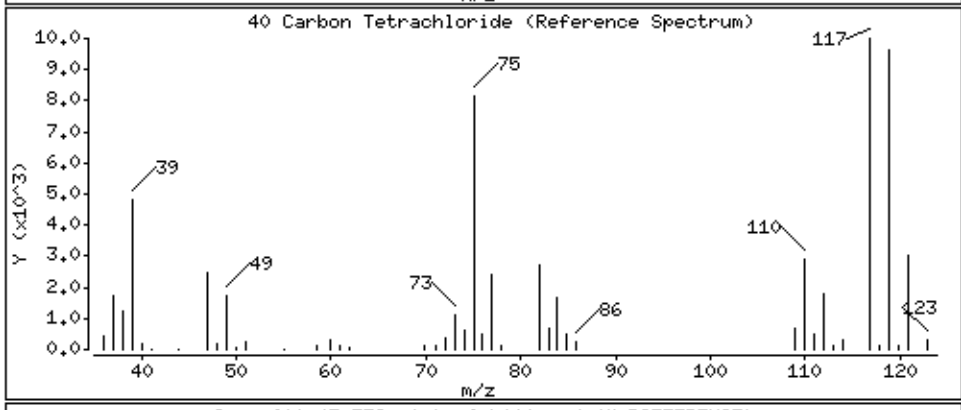
Column diameter: 0.18

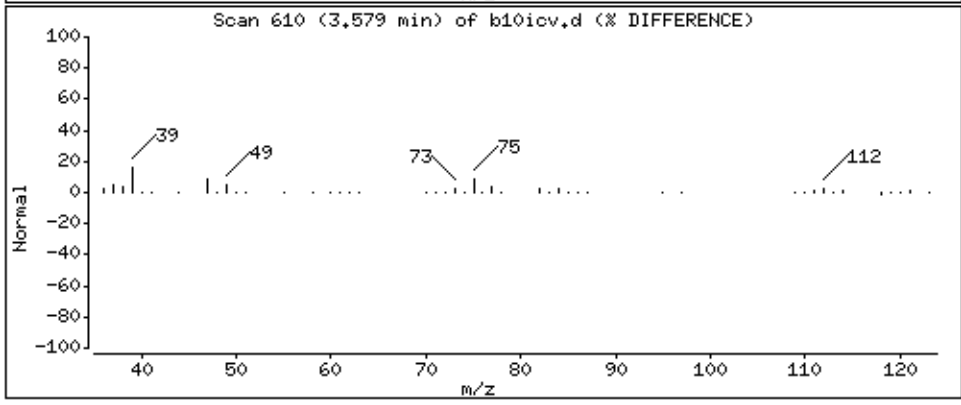
40 Carbon Tetrachloride

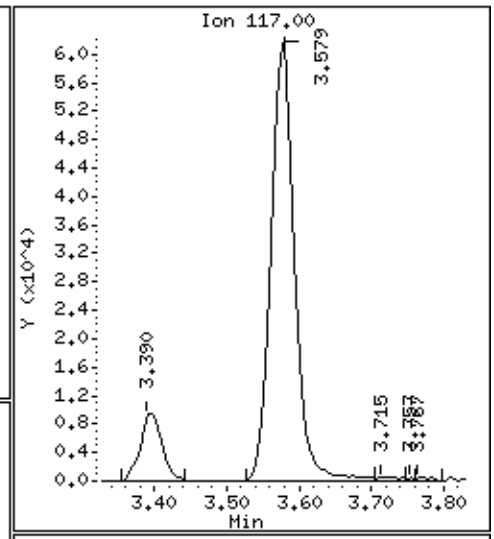
Concentration: 56.1 ppb

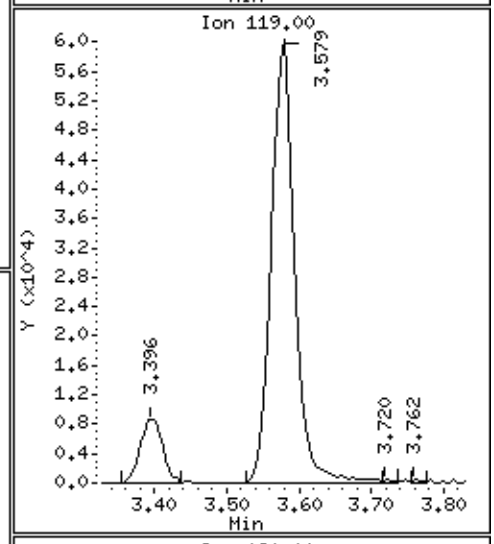


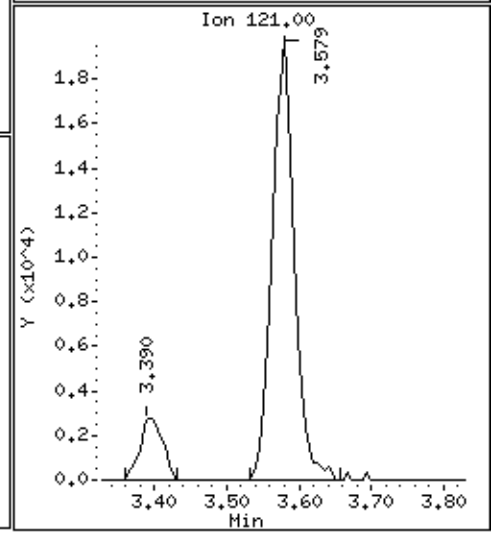












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

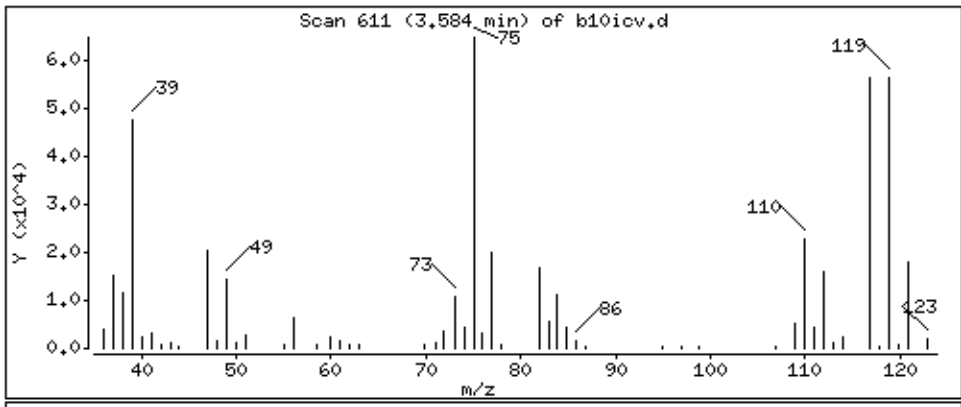
Operator: grm

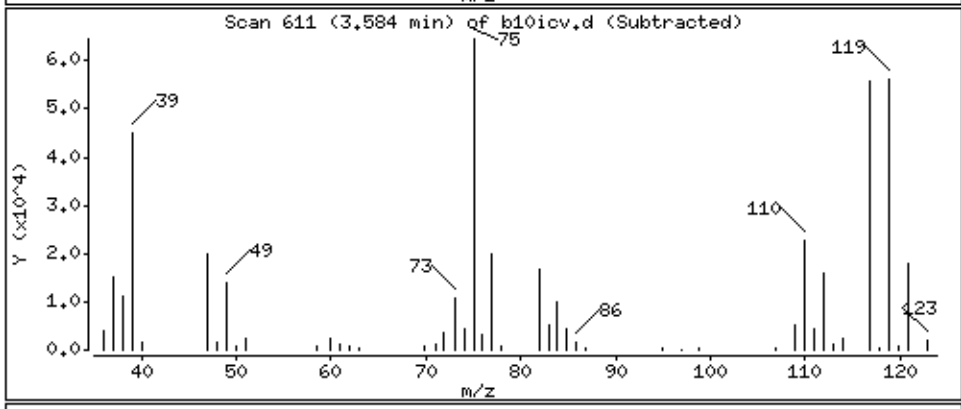
Column phase: DB-624

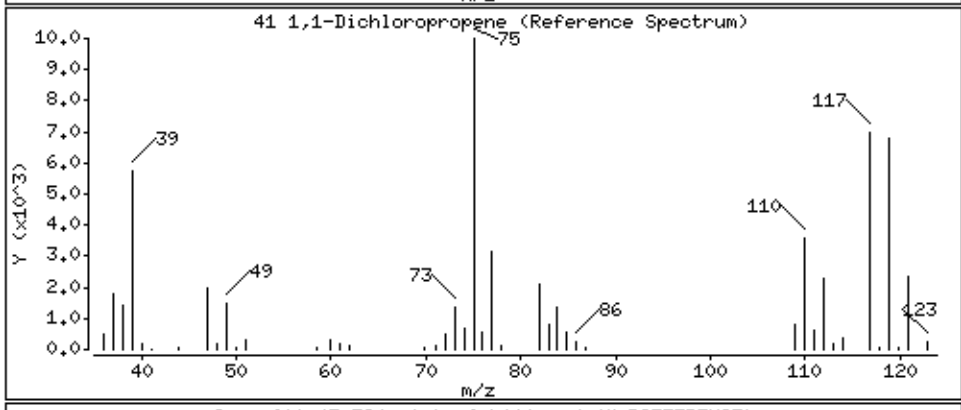
Column diameter: 0.18

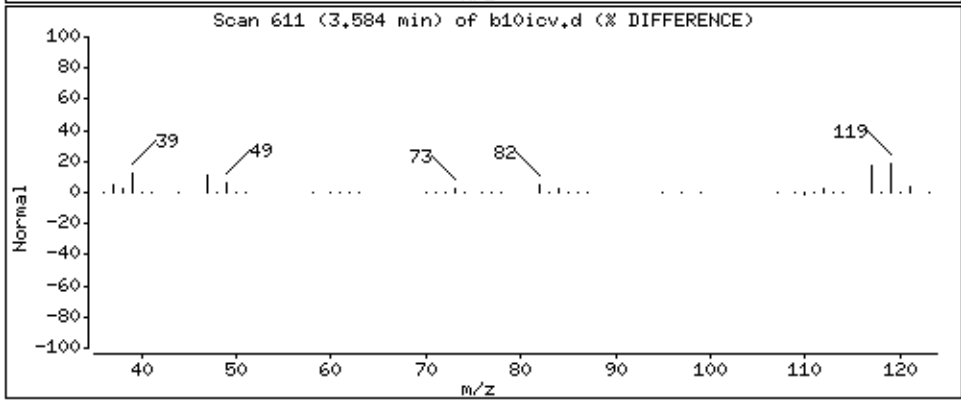
41 1,1-Dichloropropene

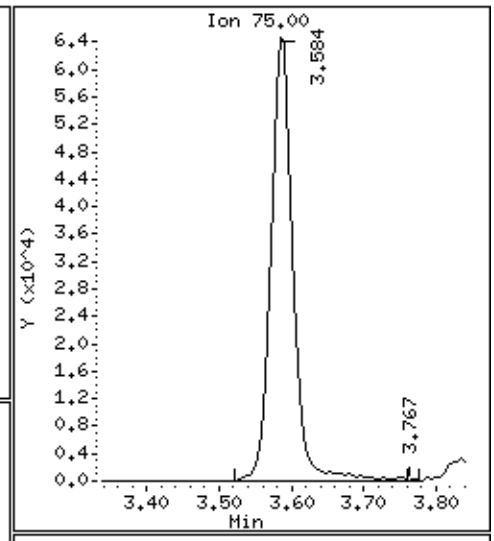
Concentration: 54.4 ppb

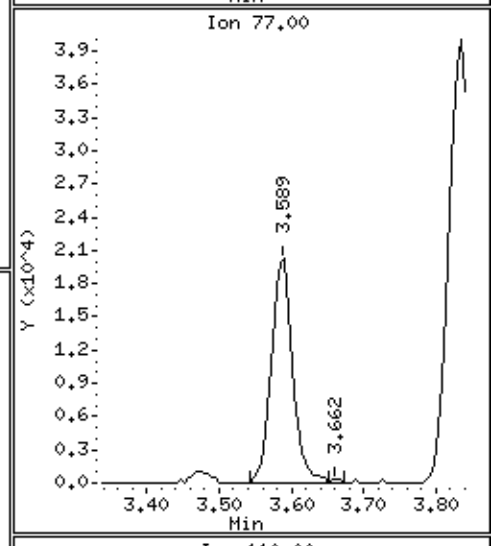


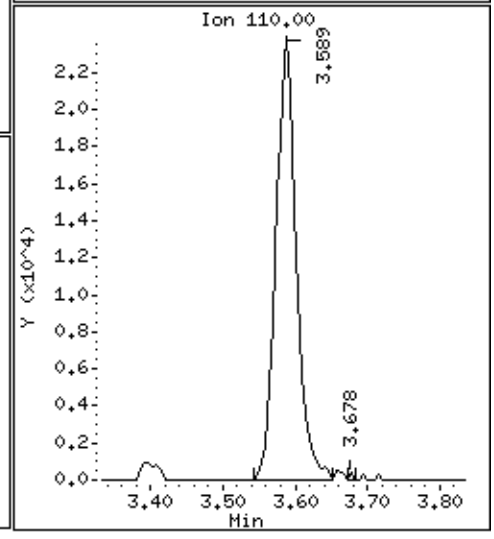












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

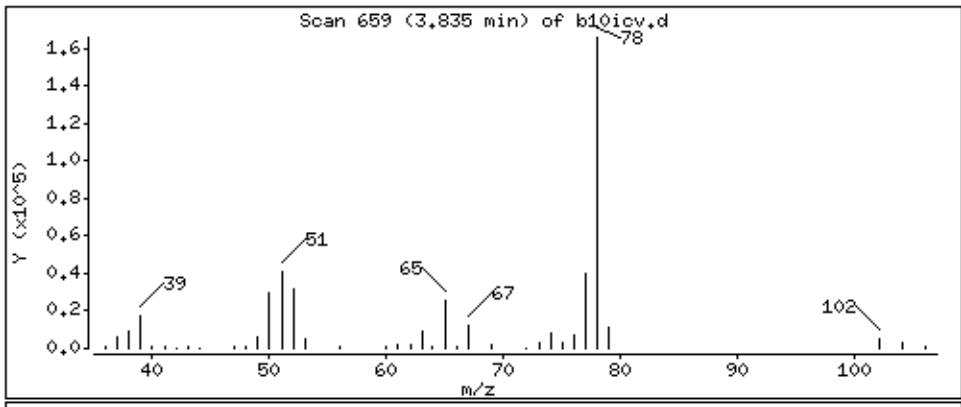
Operator: grm

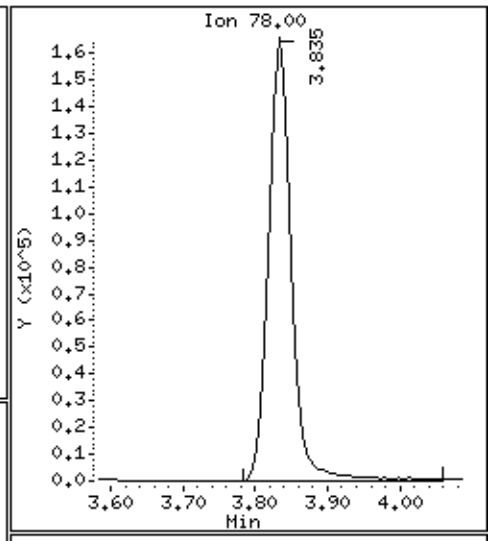
Column phase: DB-624

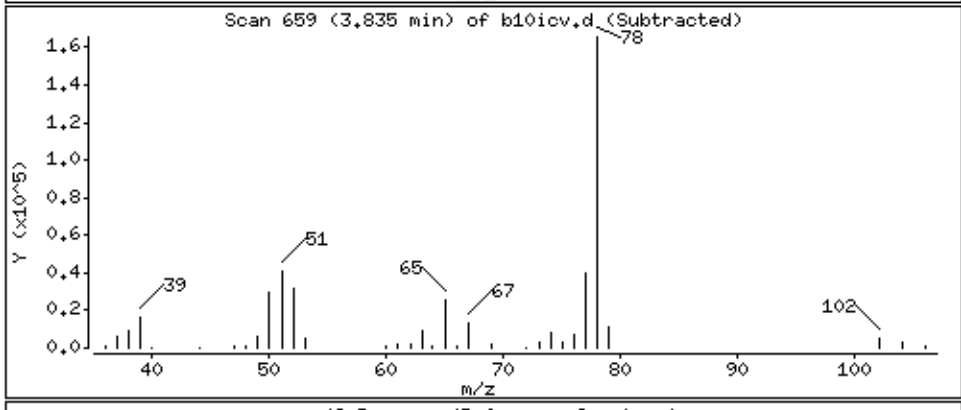
Column diameter: 0.18

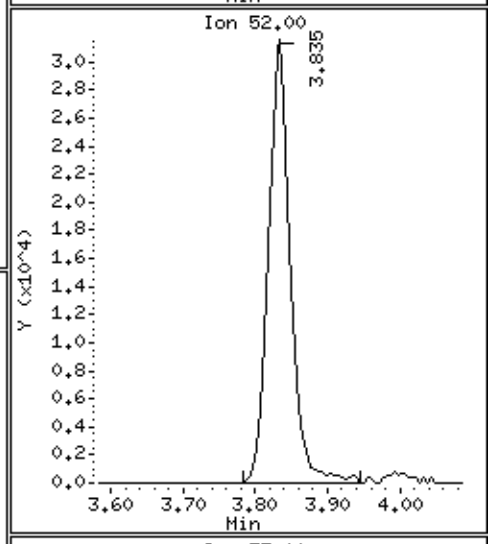
42 Benzene

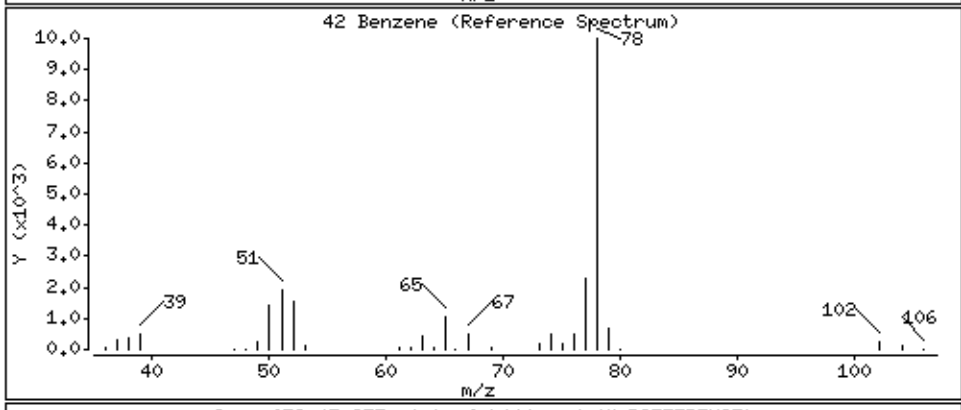
Concentration: 53.4 ppb

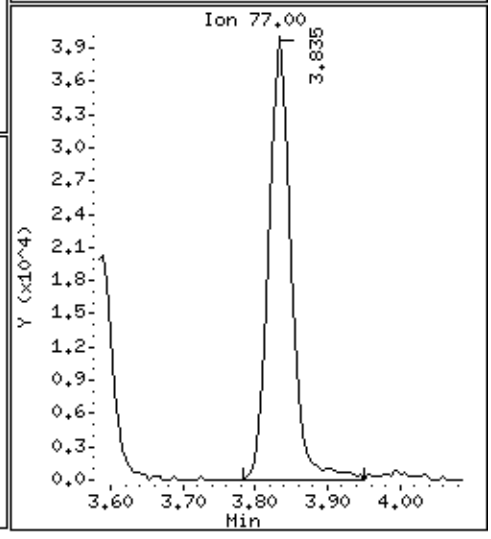


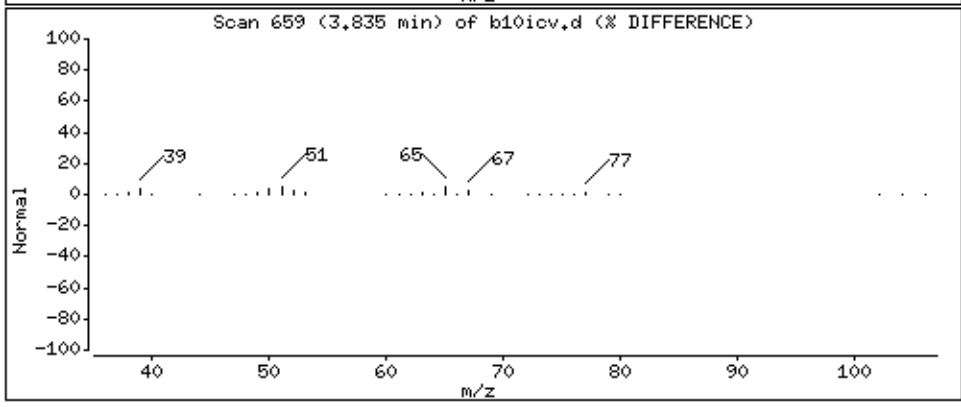












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

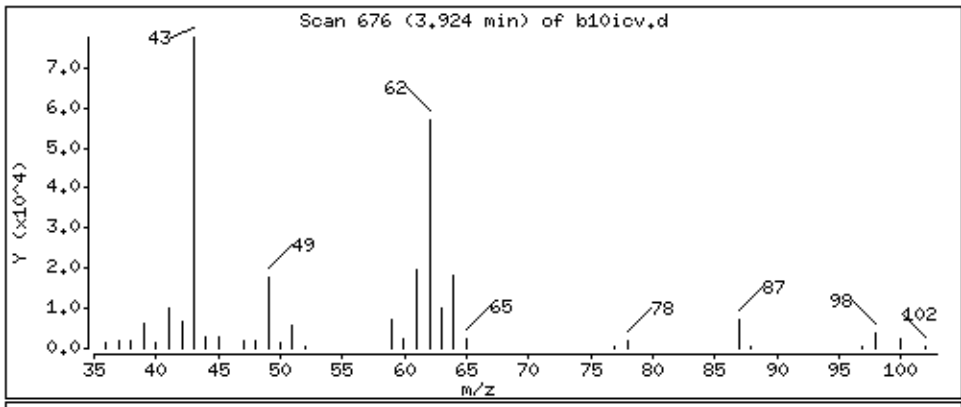
Operator: grm

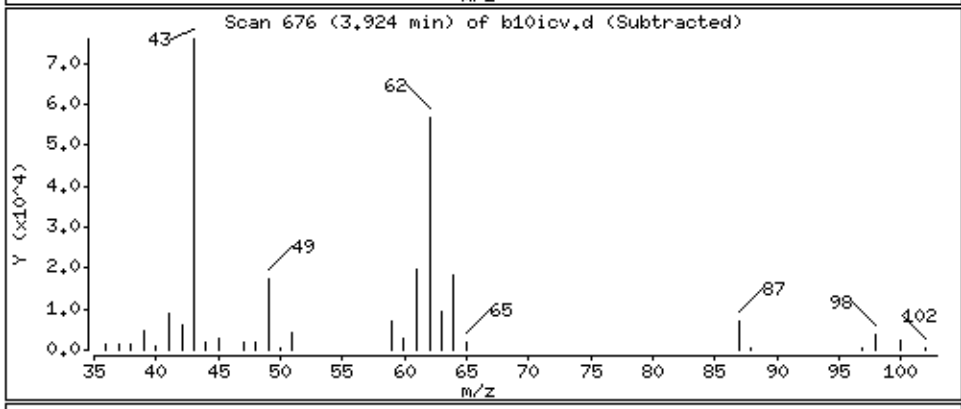
Column phase: DB-624

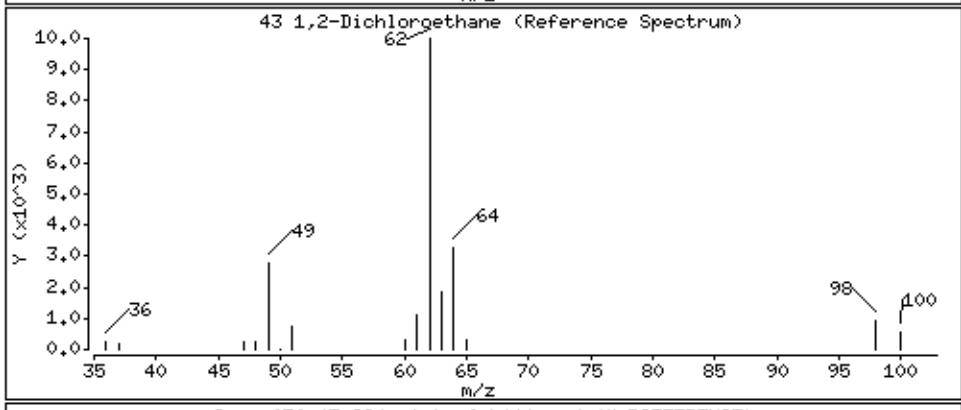
Column diameter: 0.18

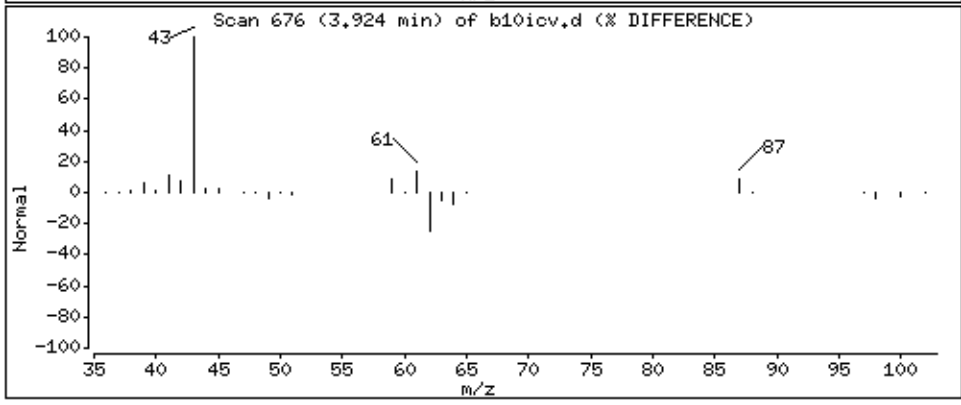
43 1,2-Dichloroethane

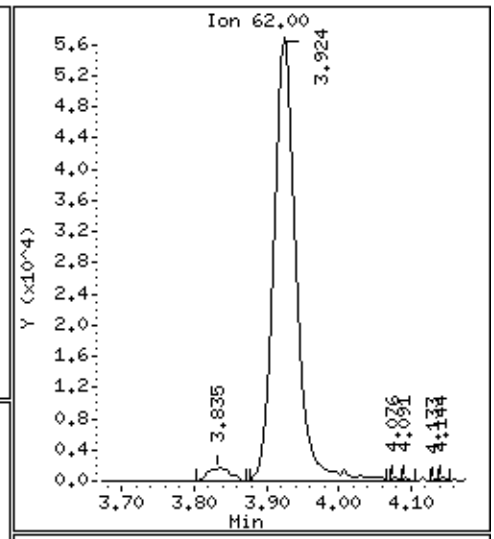
Concentration: 51.7 ppb

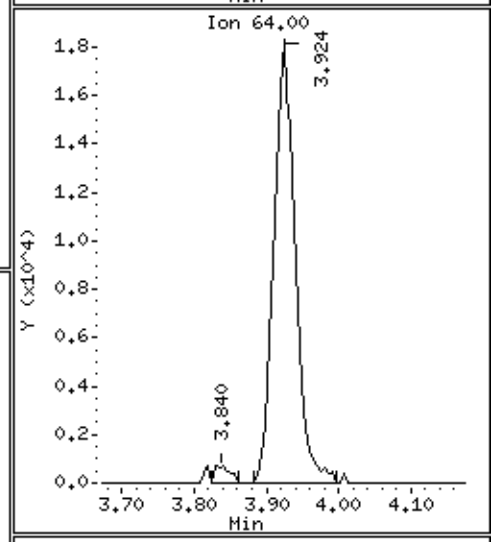


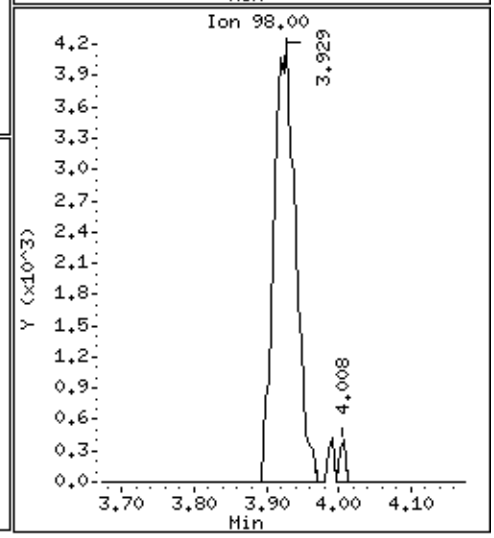












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

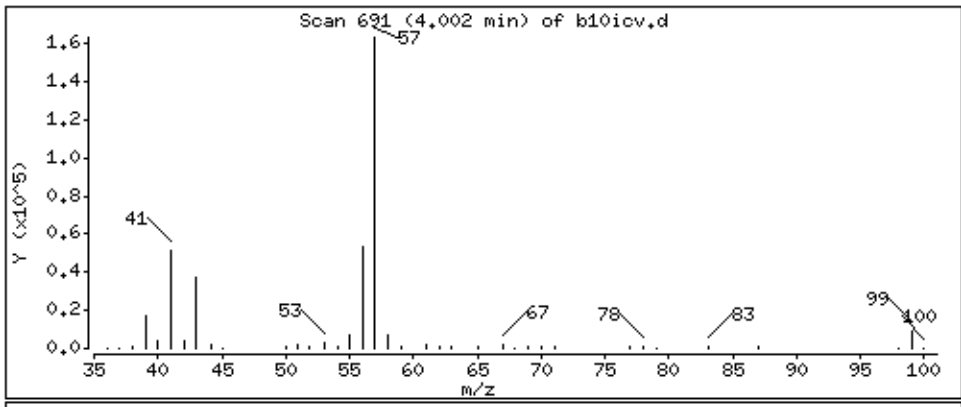
Operator: grm

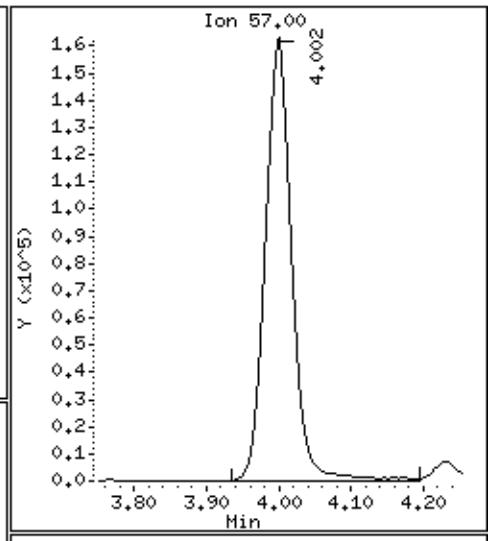
Column phase: DB-624

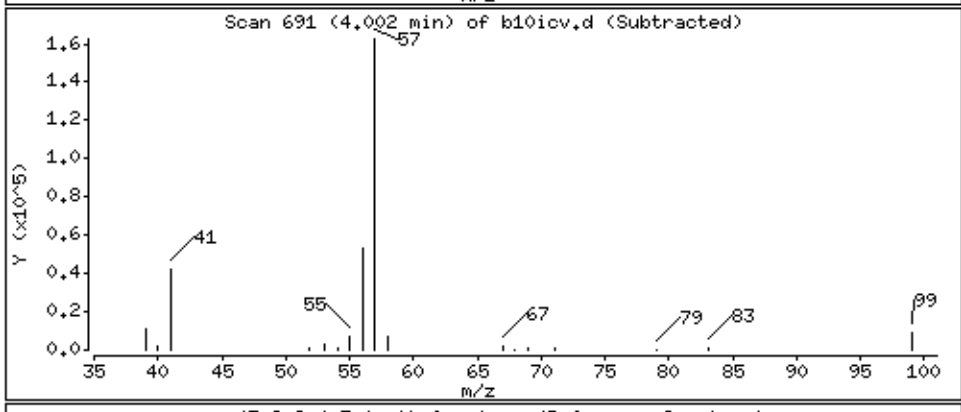
Column diameter: 0.18

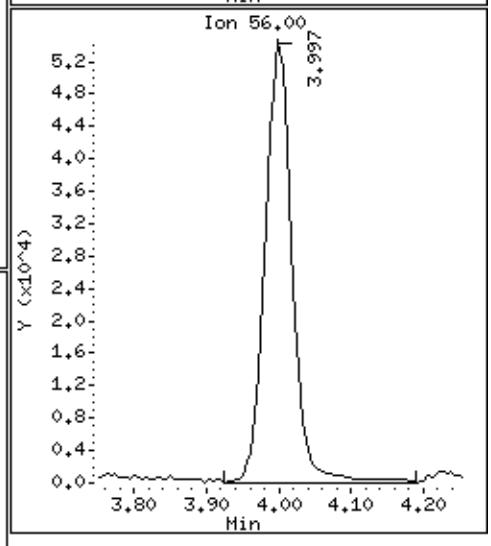
45 2,2,4-Trimethylpentane

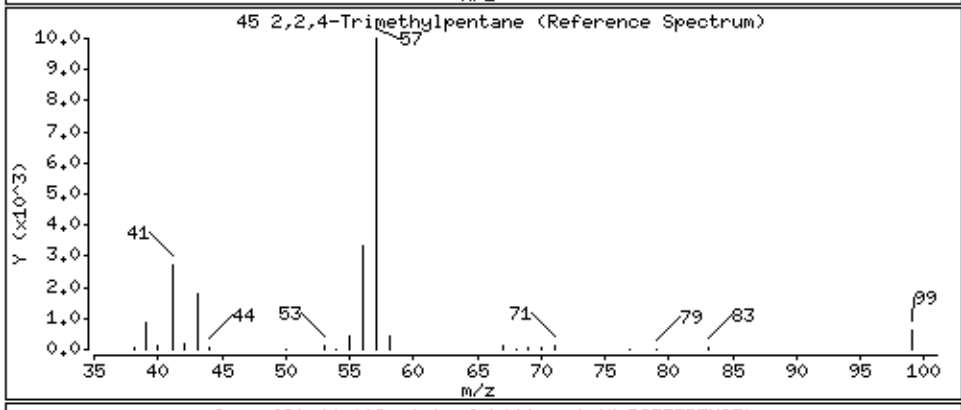
Concentration: 54.6 ppb

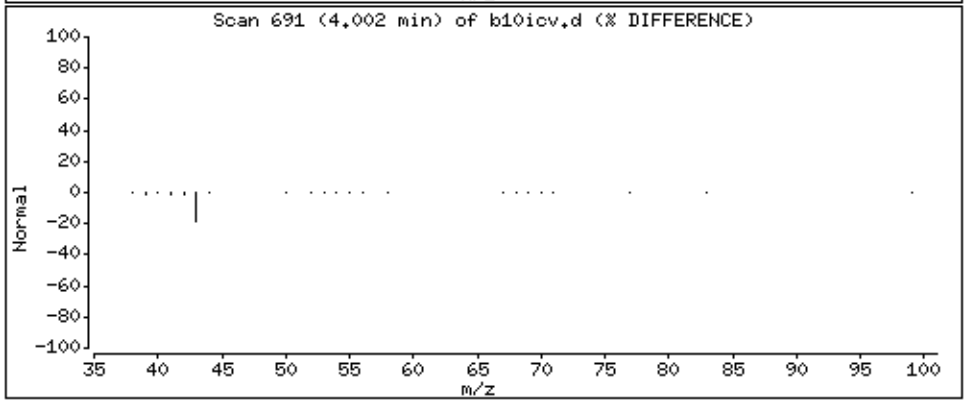












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

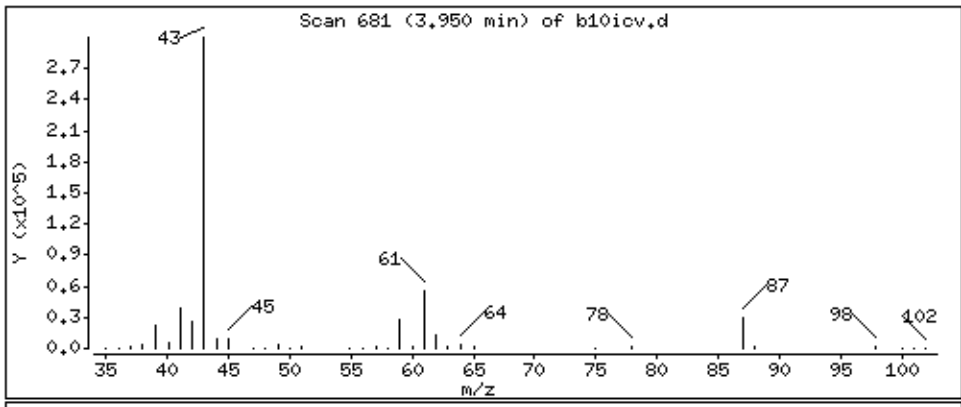
Operator: grm

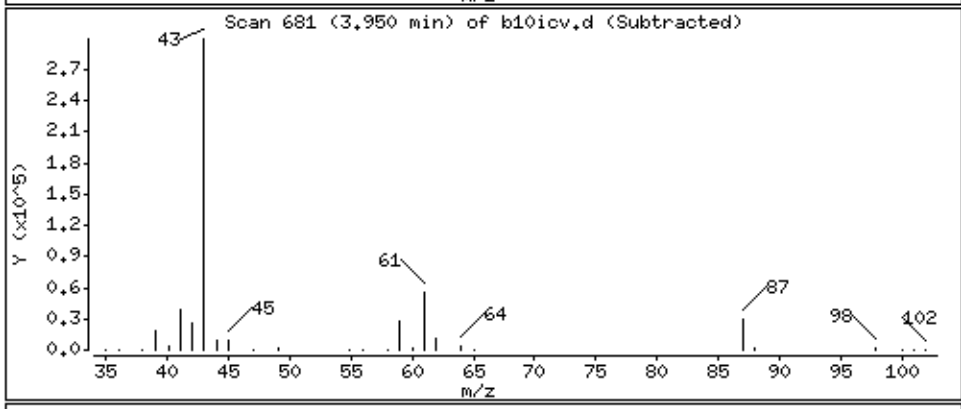
Column phase: DB-624

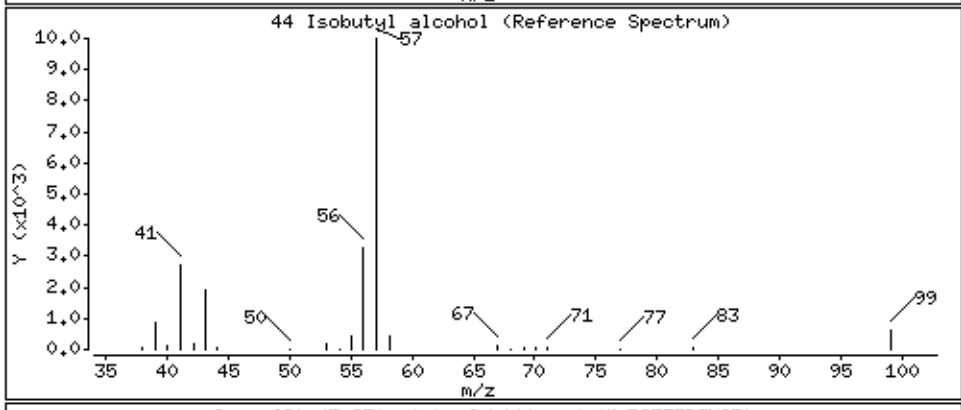
Column diameter: 0.18

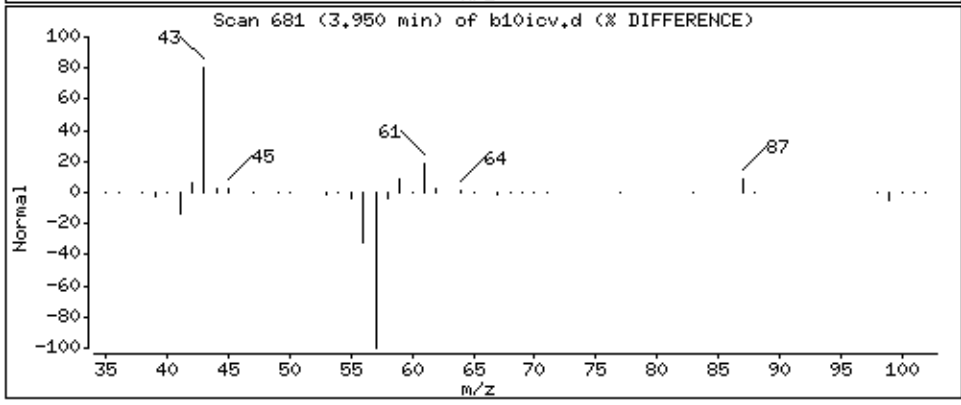
44 Isobutyl alcohol

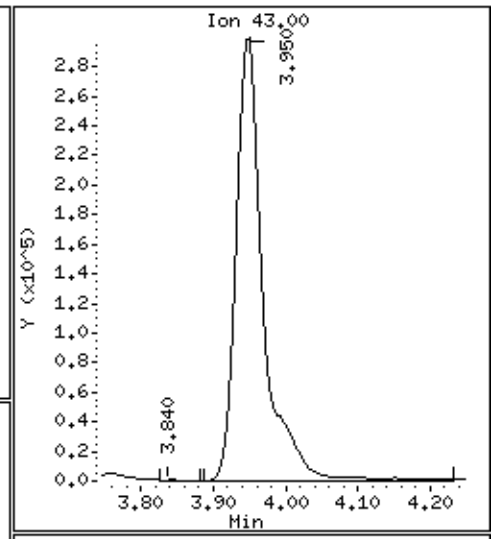
Concentration: 512 ppb

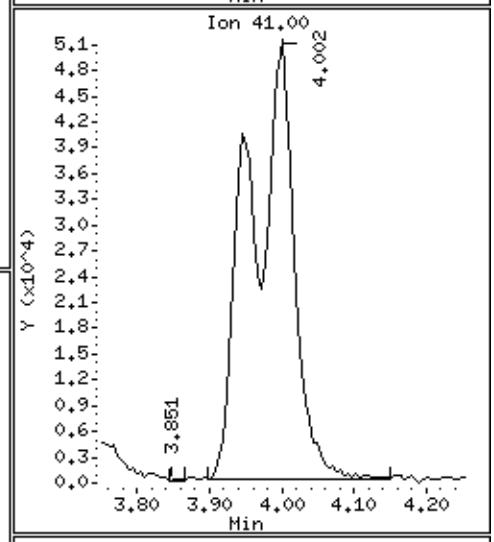


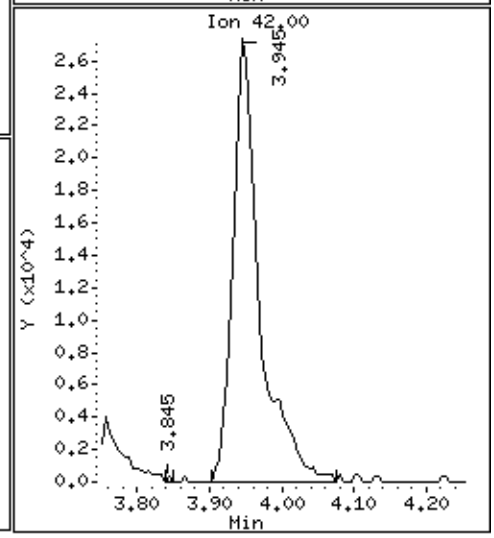












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

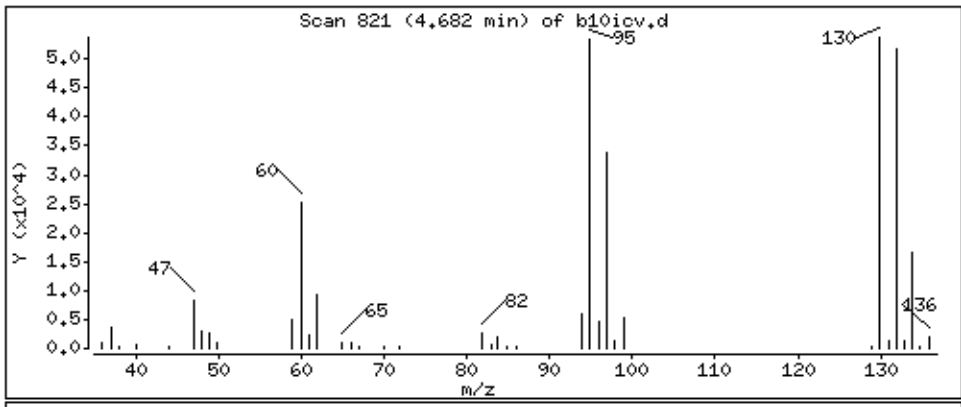
Operator: grm

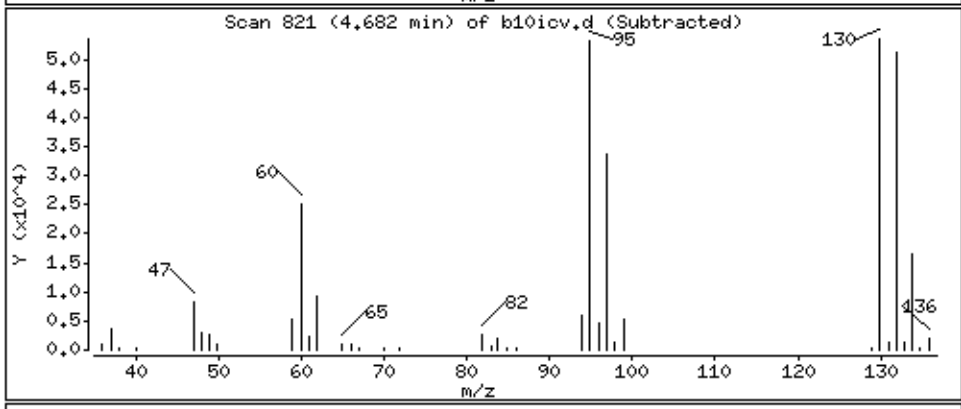
Column phase: DB-624

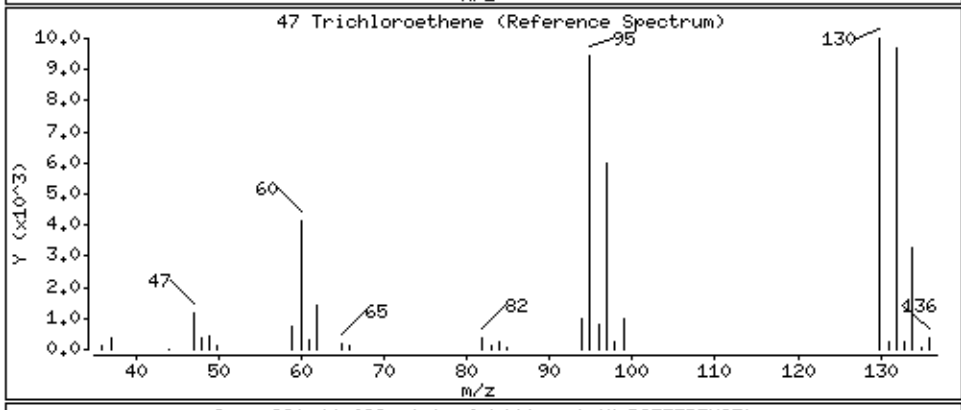
Column diameter: 0.18

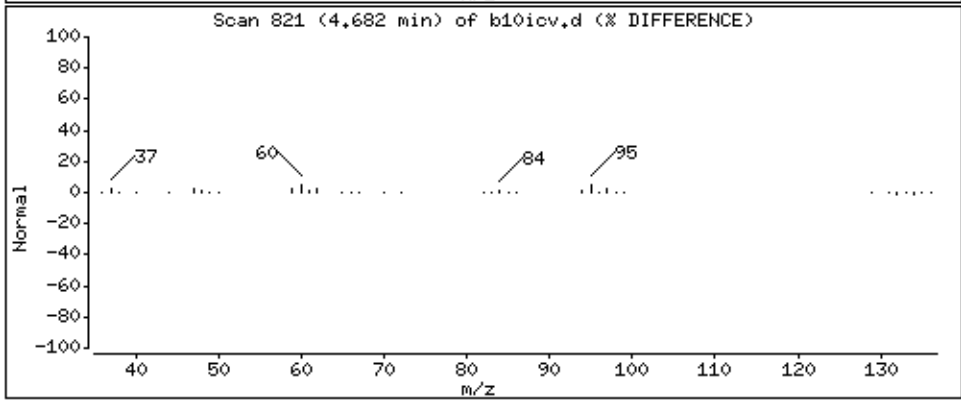
47 Trichloroethene

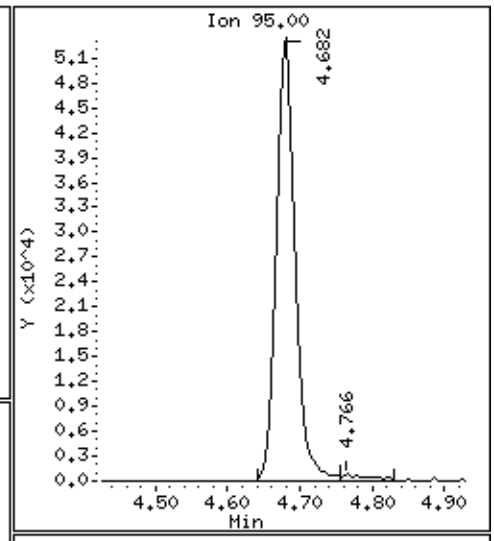
Concentration: 54.4 ppb

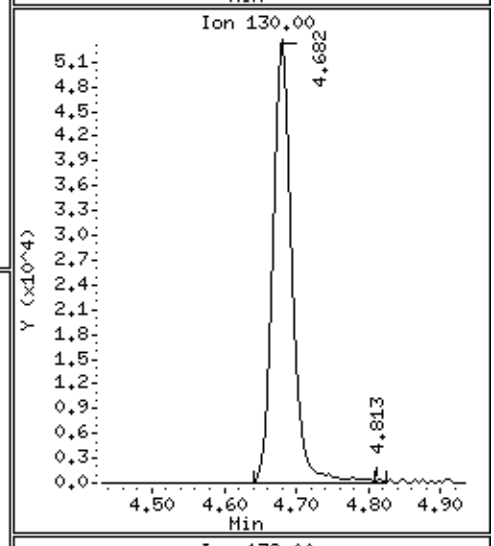


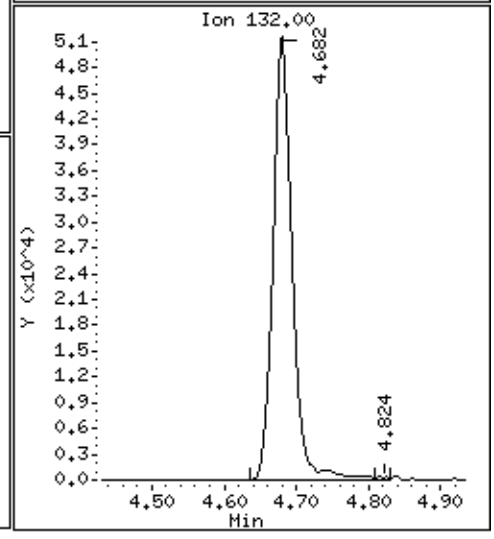












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 51

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

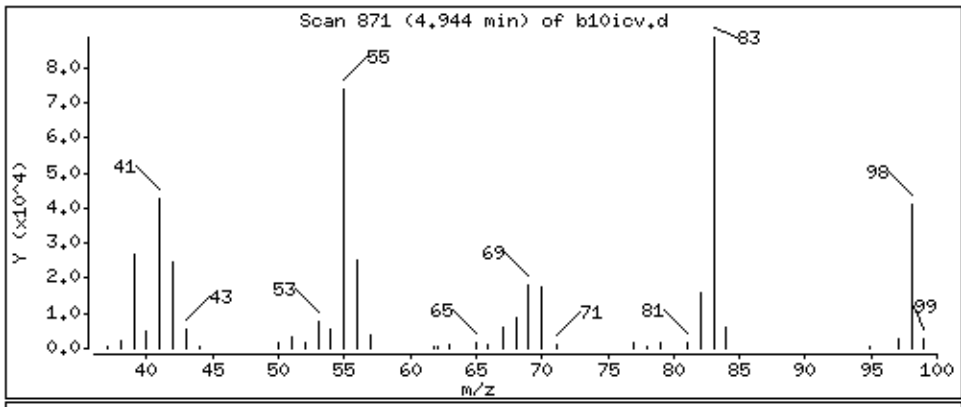
Operator: grm

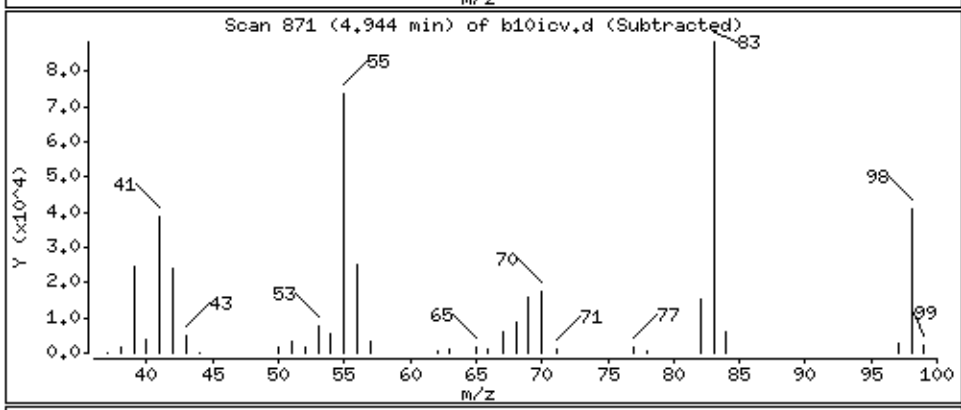
Column phase: DB-624

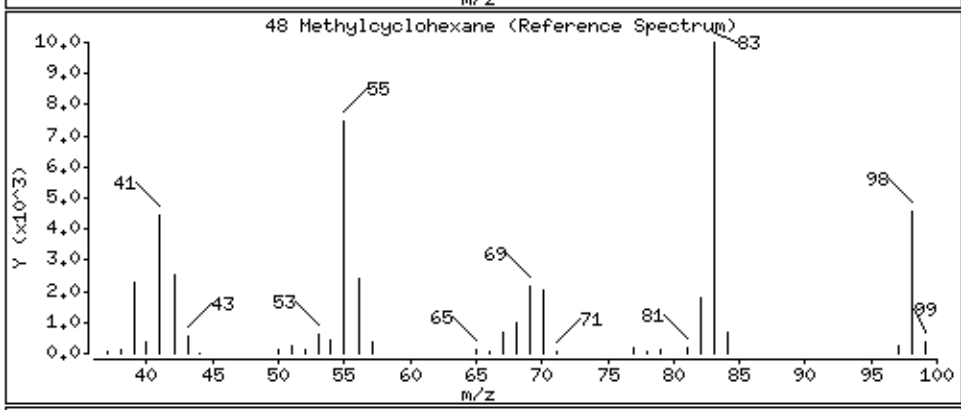
Column diameter: 0.18

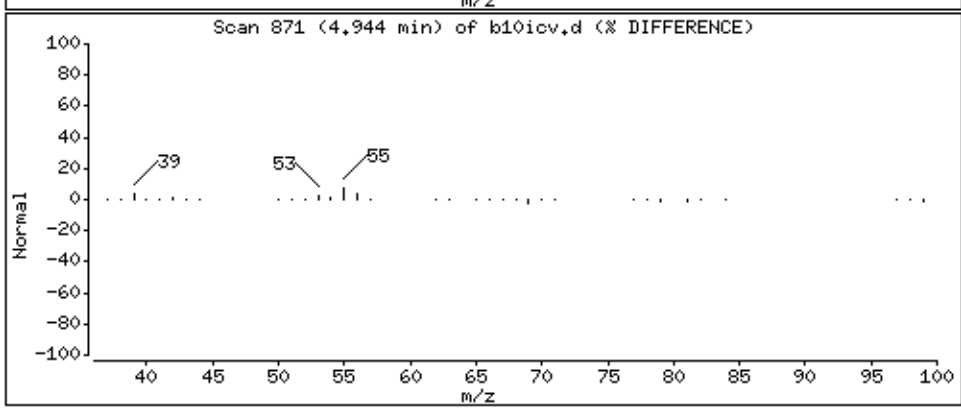
48 Methylcyclohexane

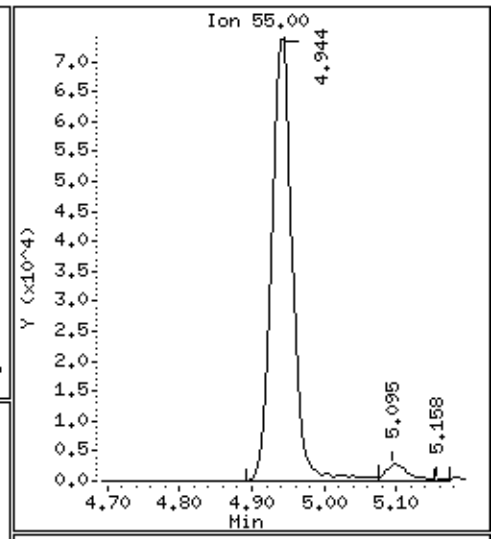
Concentration: 54.6 ppb

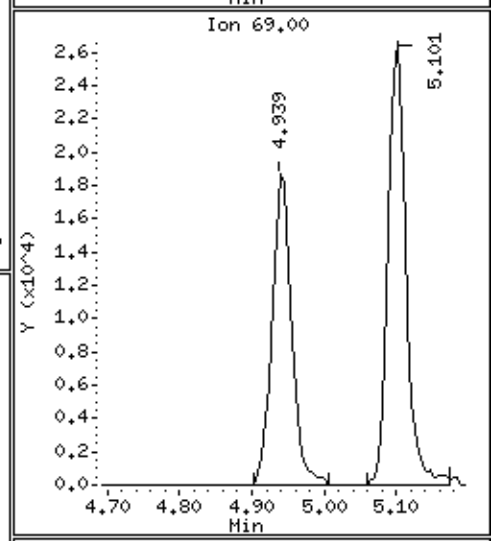


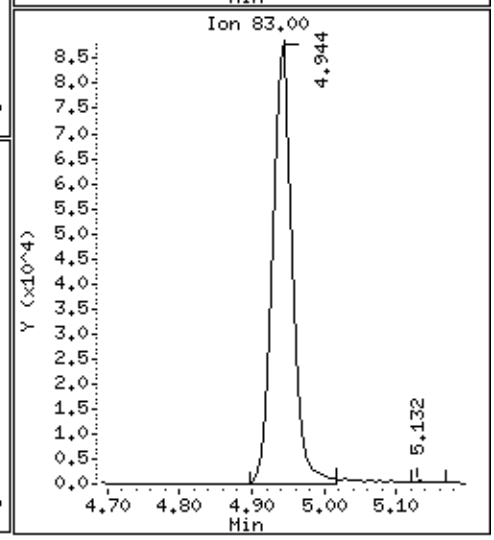












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

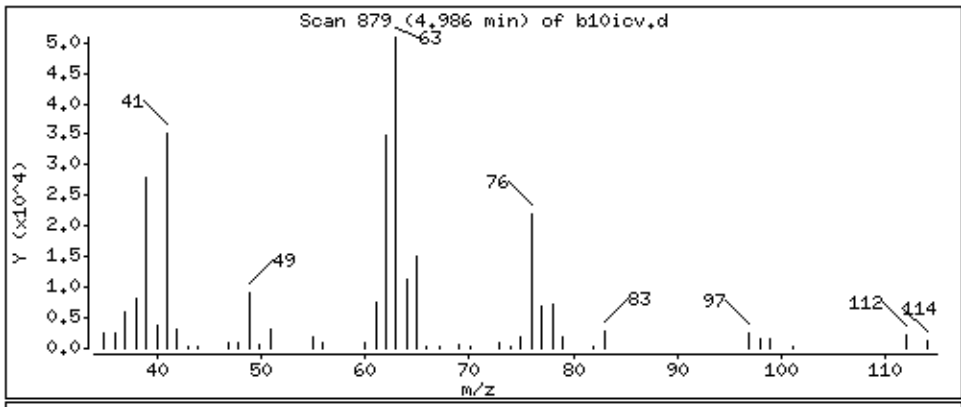
Operator: grm

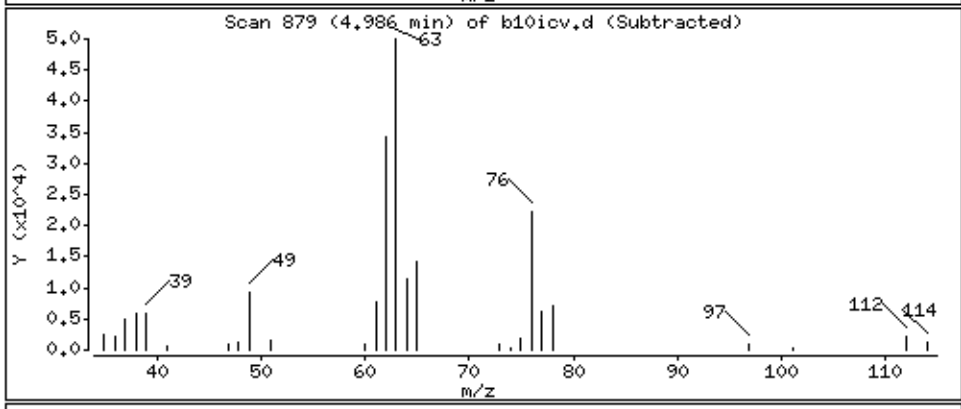
Column phase: DB-624

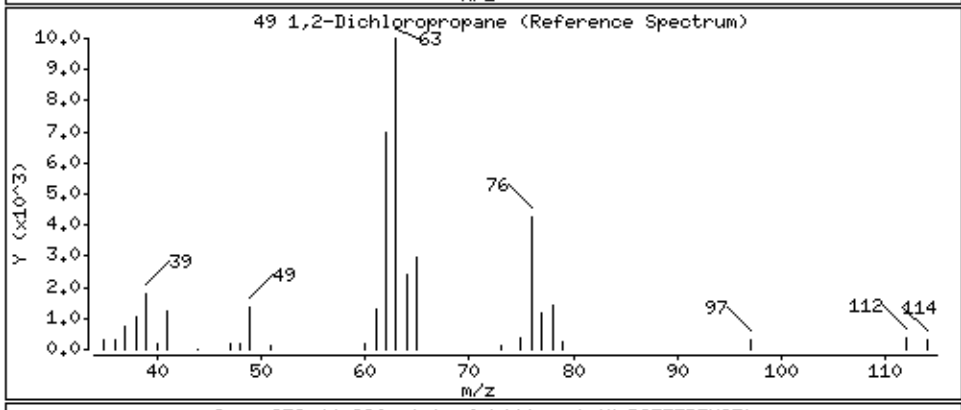
Column diameter: 0.18

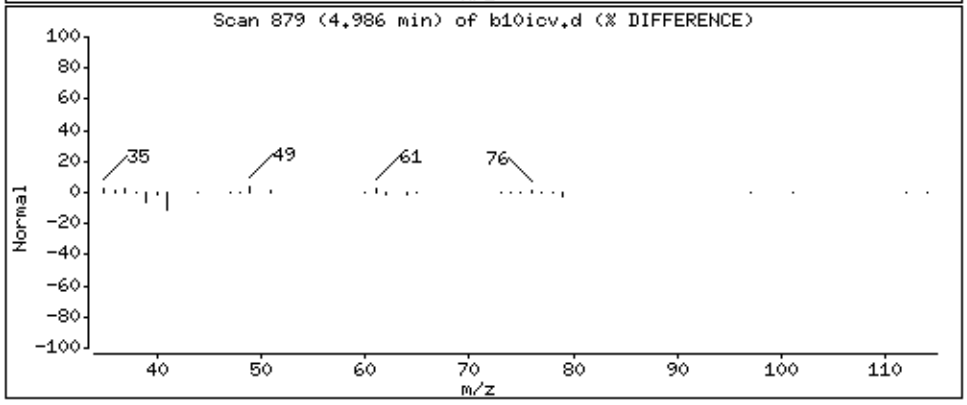
49 1,2-Dichloropropane

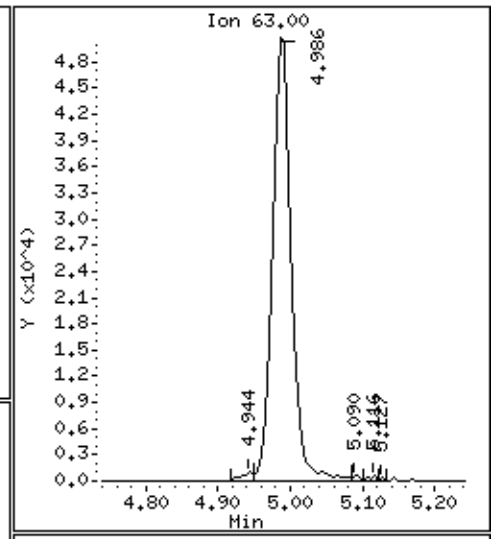
Concentration: 52.1 ppb

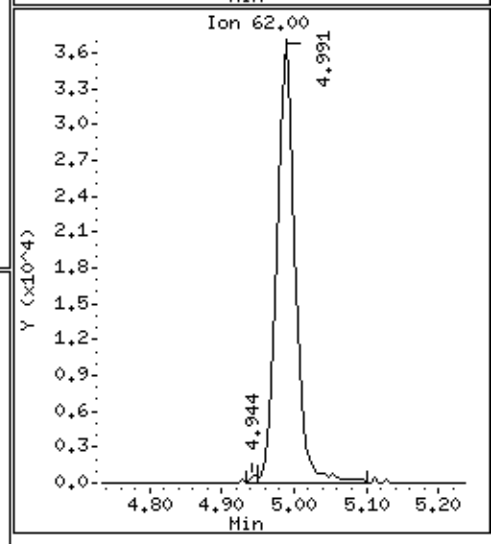












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

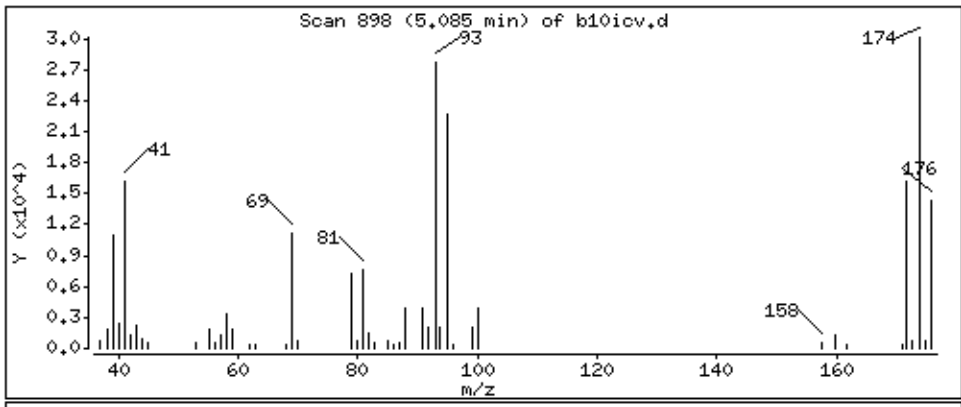
Operator: grm

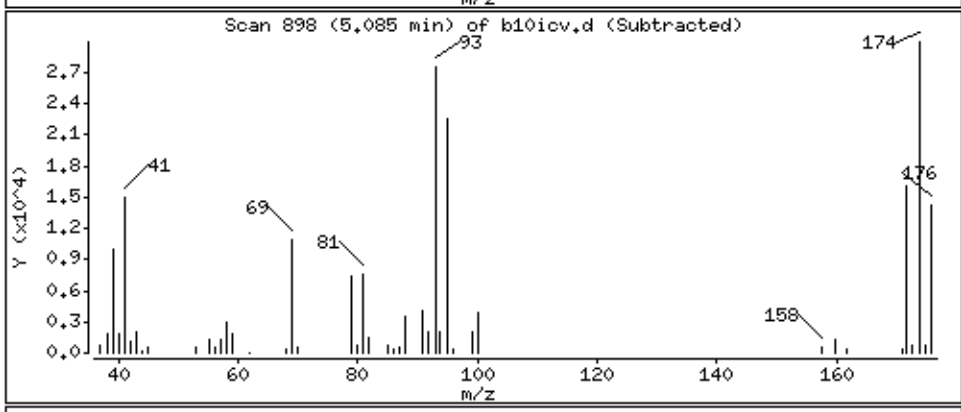
Column phase: DB-624

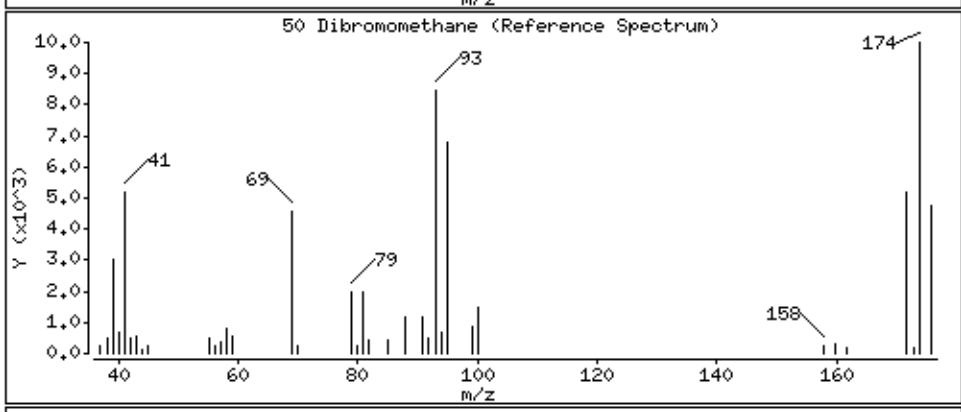
Column diameter: 0.18

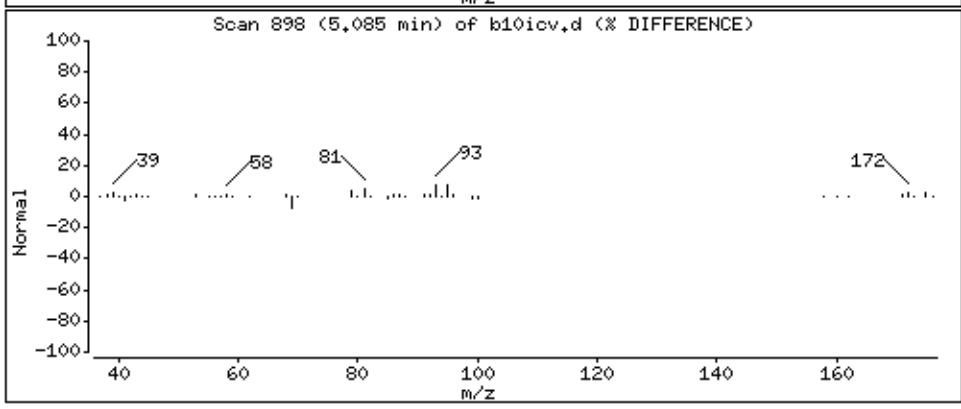
50 Dibromomethane

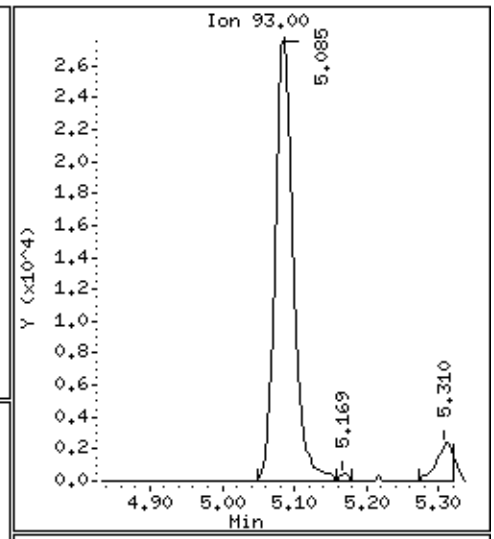
Concentration: 51.6 ppb

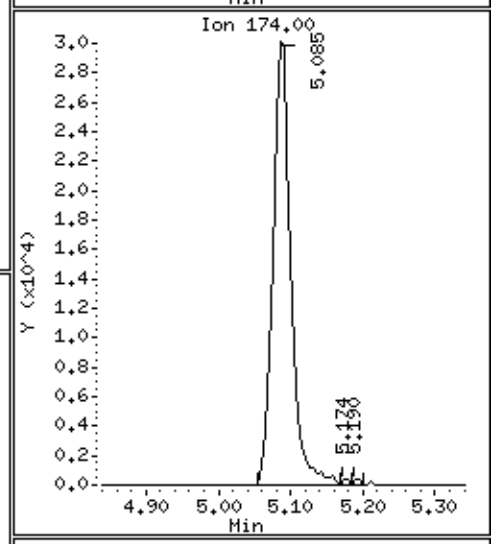


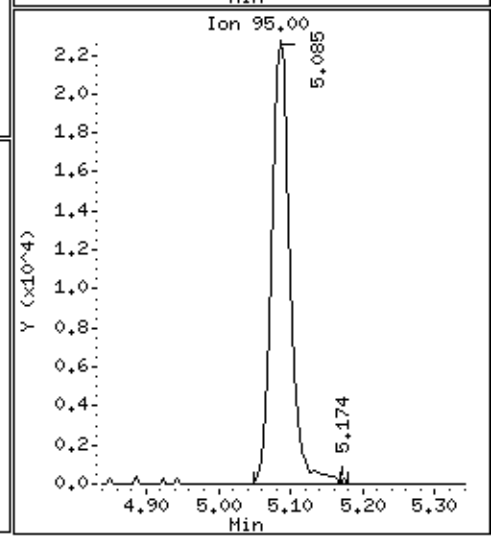












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

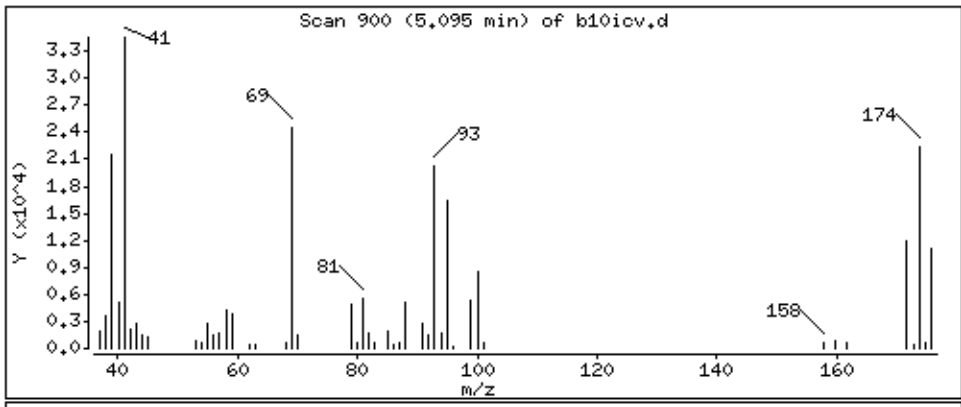
Operator: grm

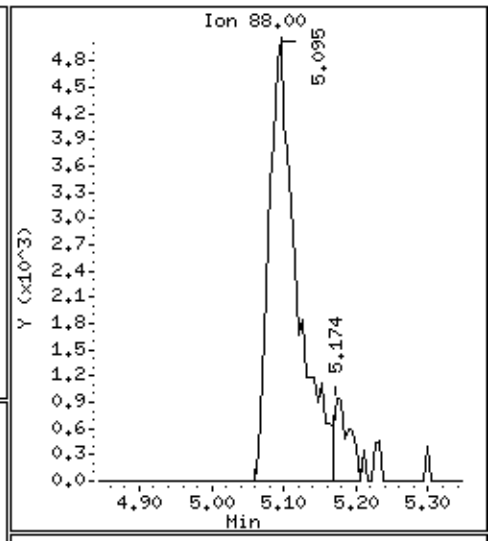
Column phase: DB-624

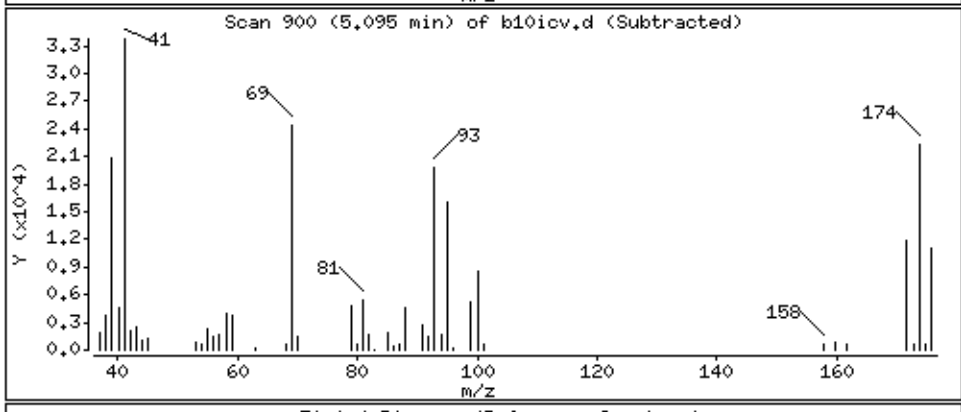
Column diameter: 0.18

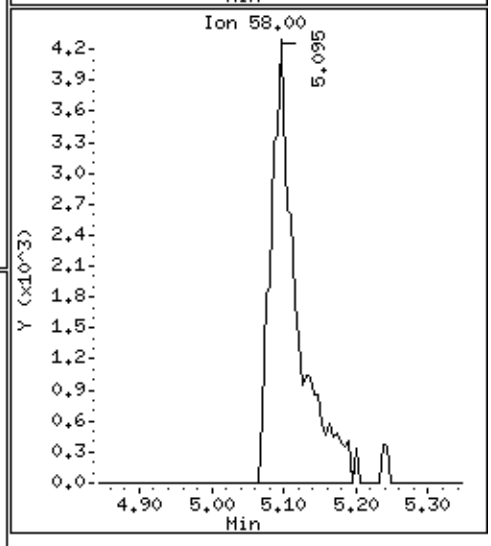
51 1,4-Dioxane

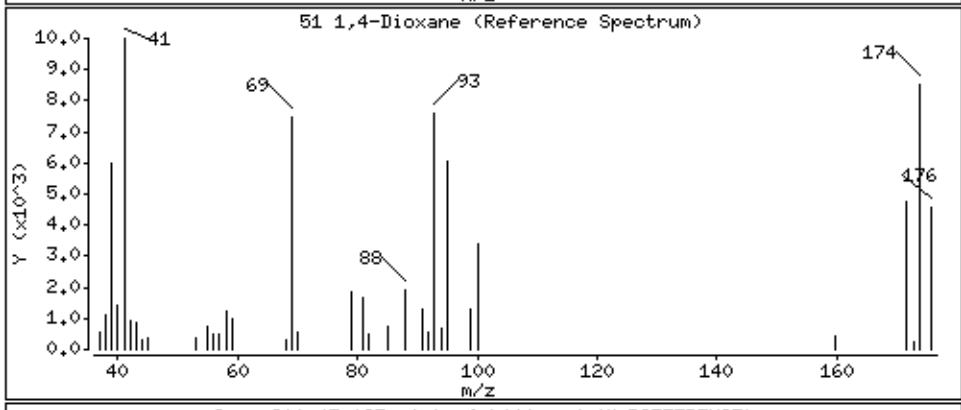
Concentration: 964 ppb

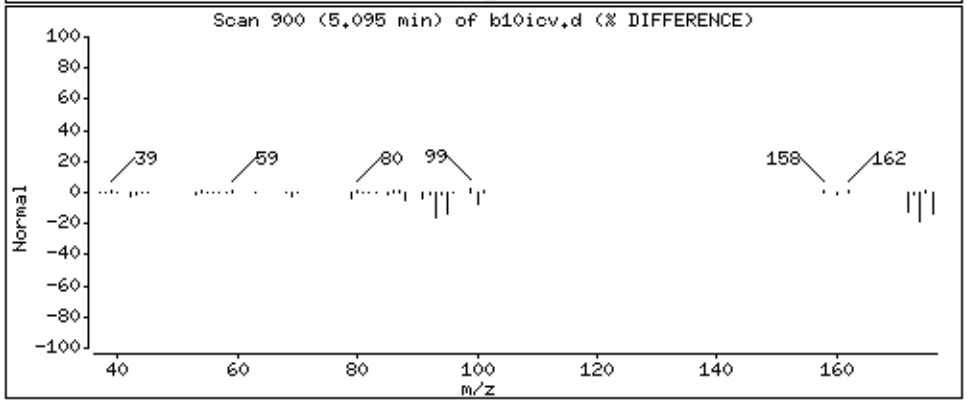












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

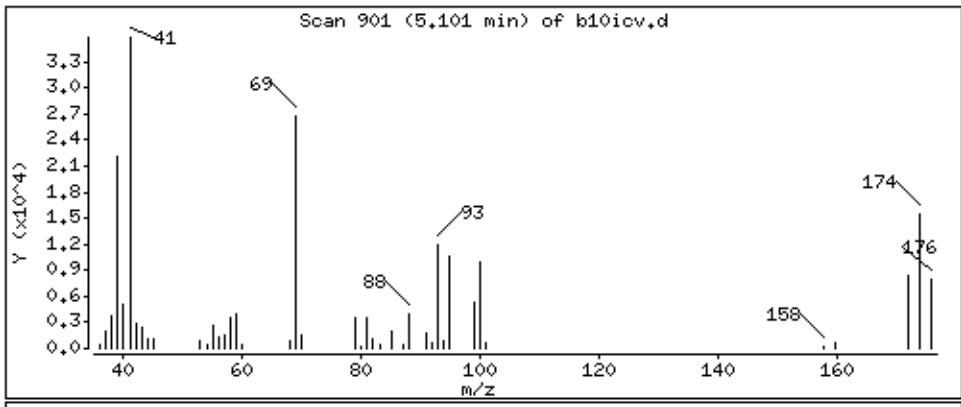
Operator: grm

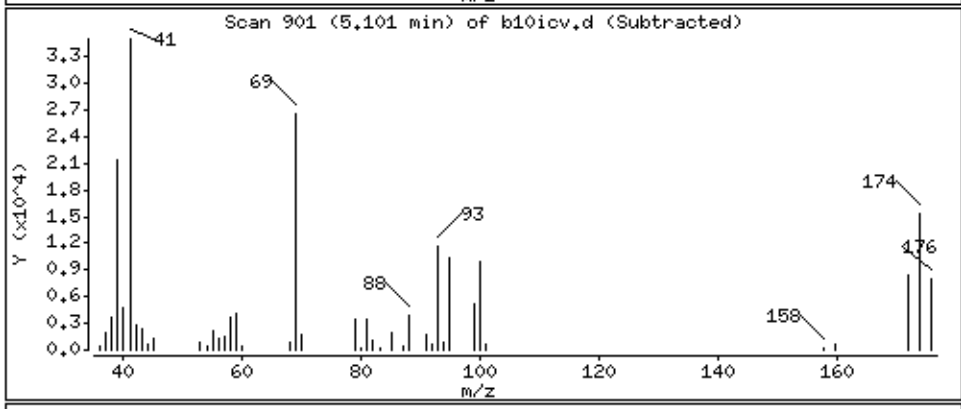
Column phase: DB-624

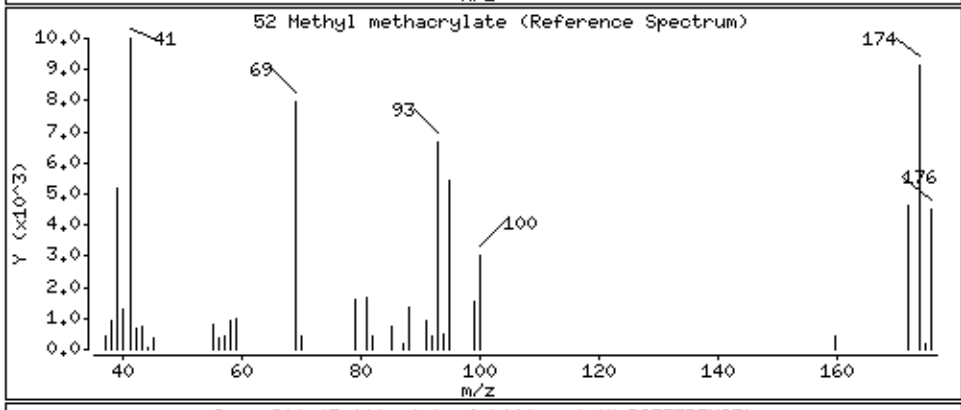
Column diameter: 0.18

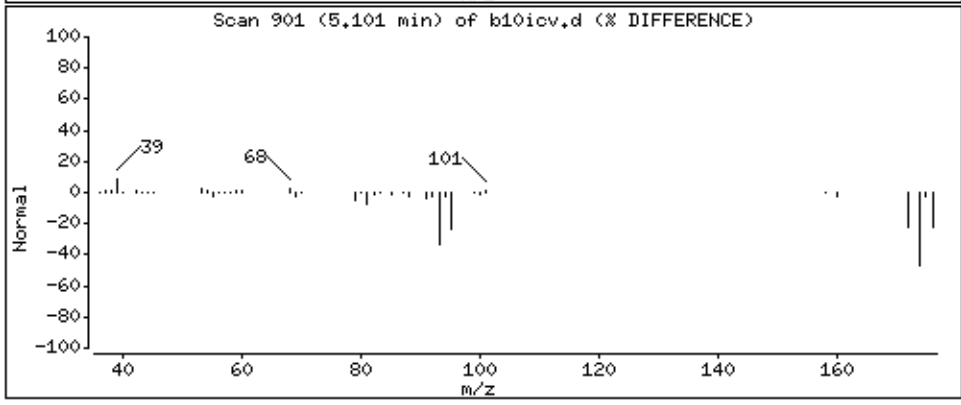
52 Methyl methacrylate

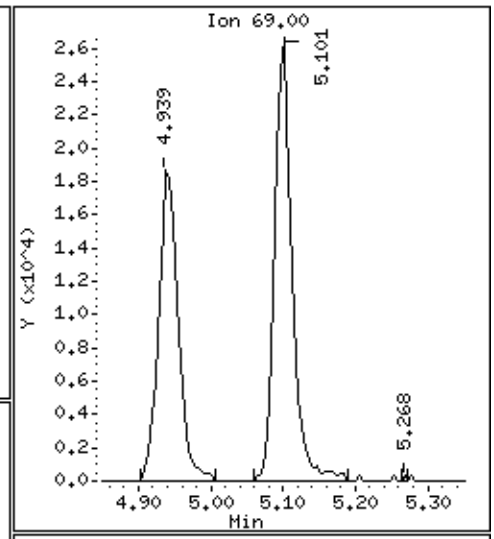
Concentration: 53.1 ppb

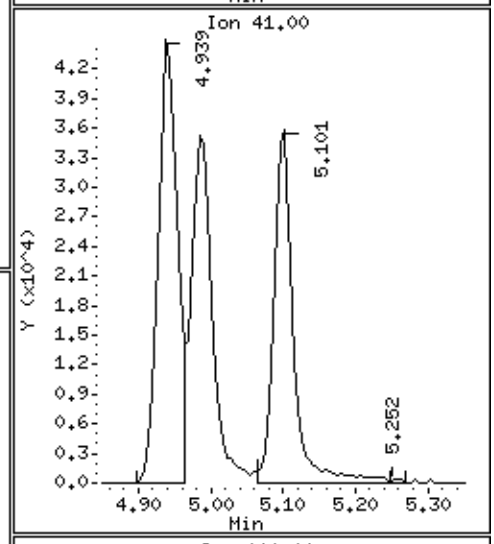


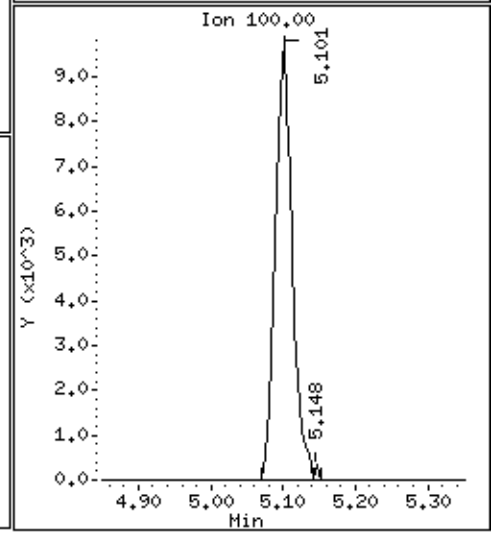












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

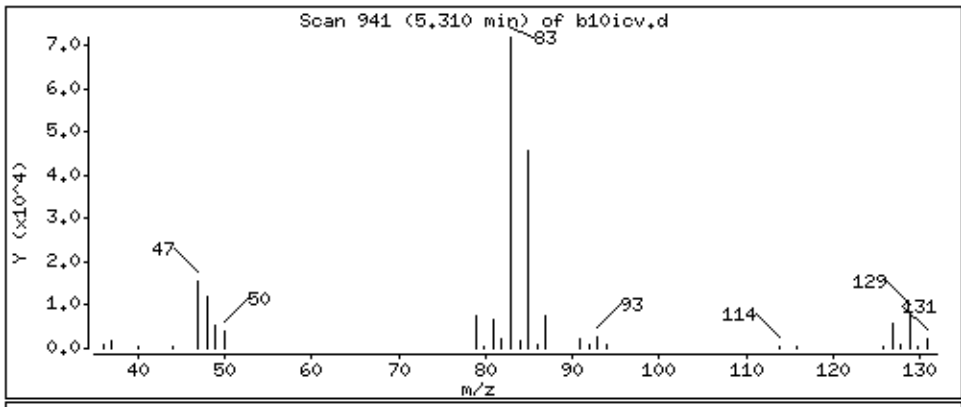
Operator: grm

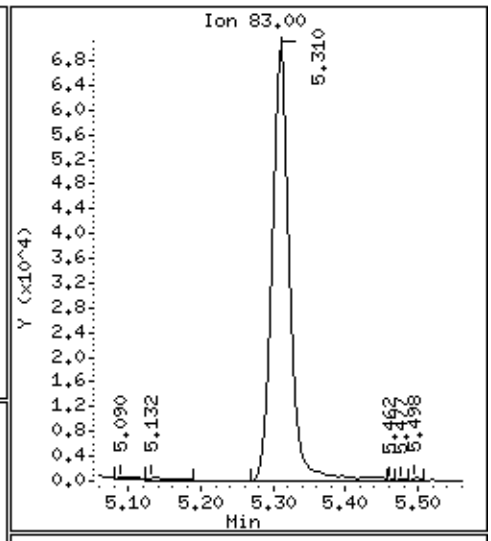
Column phase: DB-624

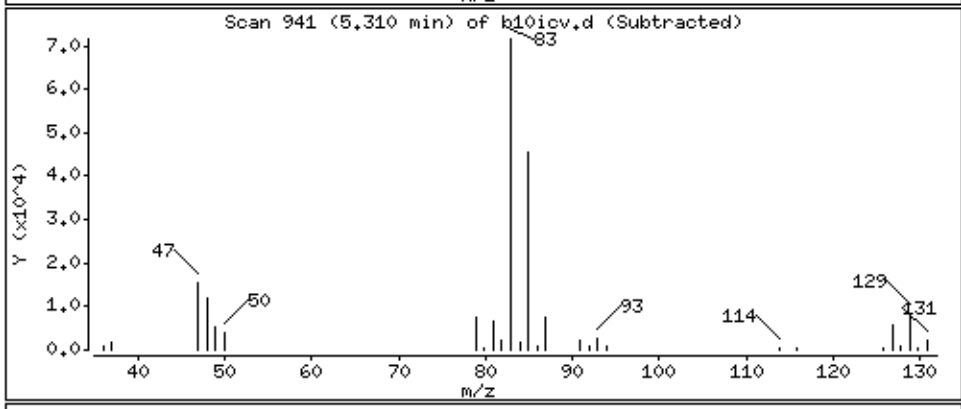
Column diameter: 0.18

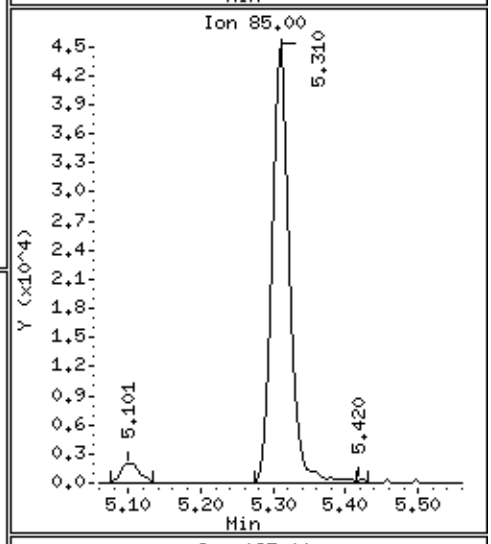
53 Bromodichloromethane

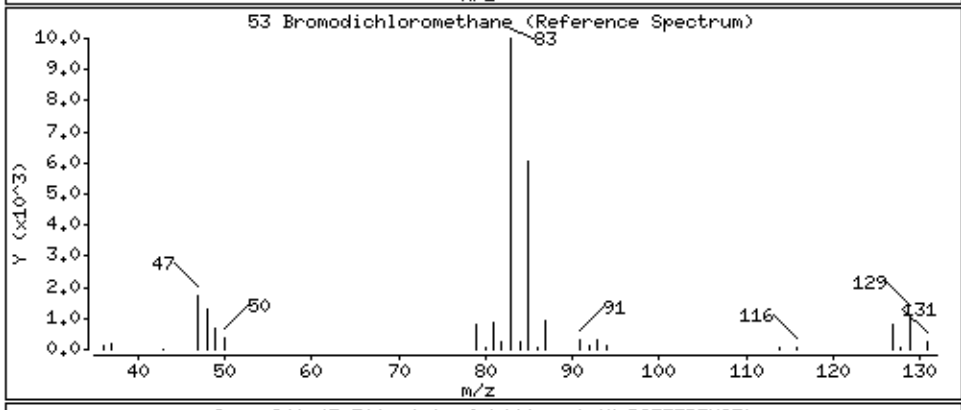
Concentration: 51.6 ppb

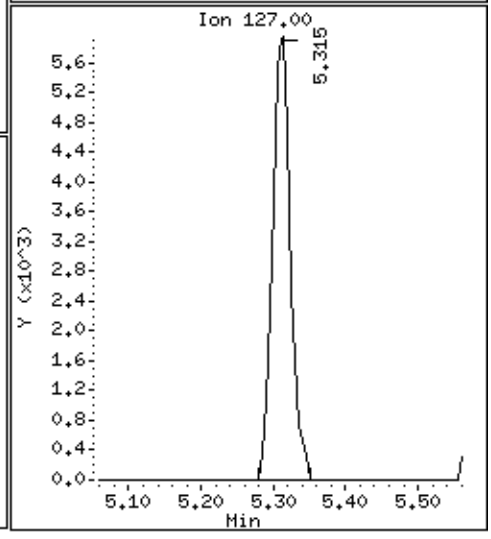


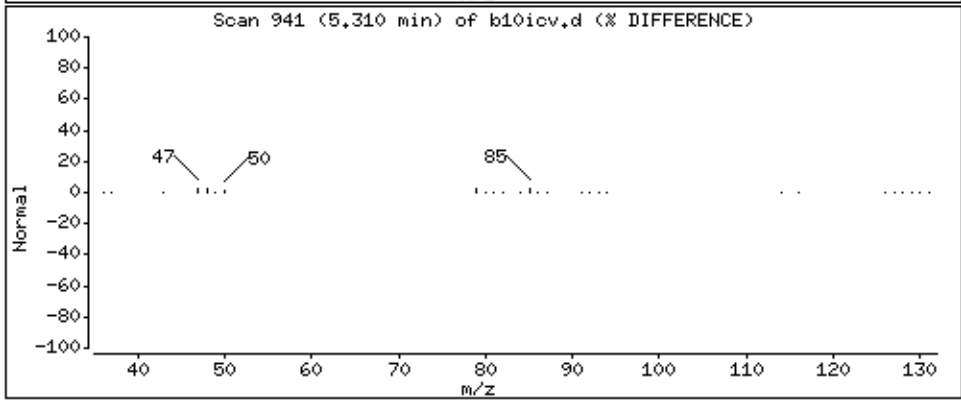












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

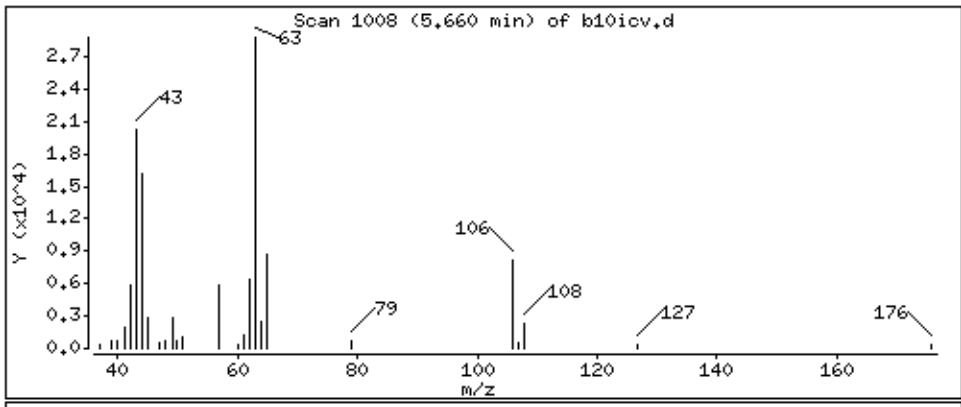
Operator: grm

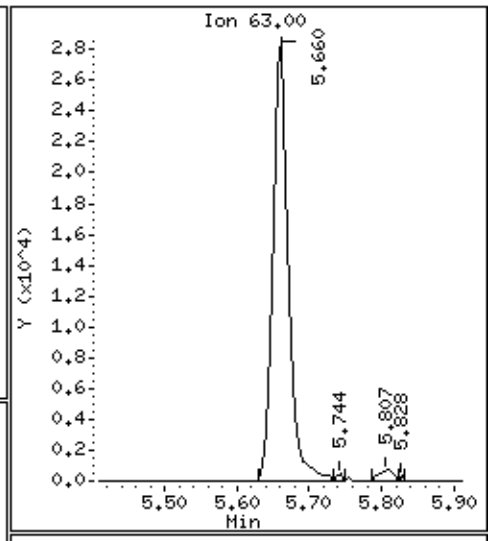
Column phase: DB-624

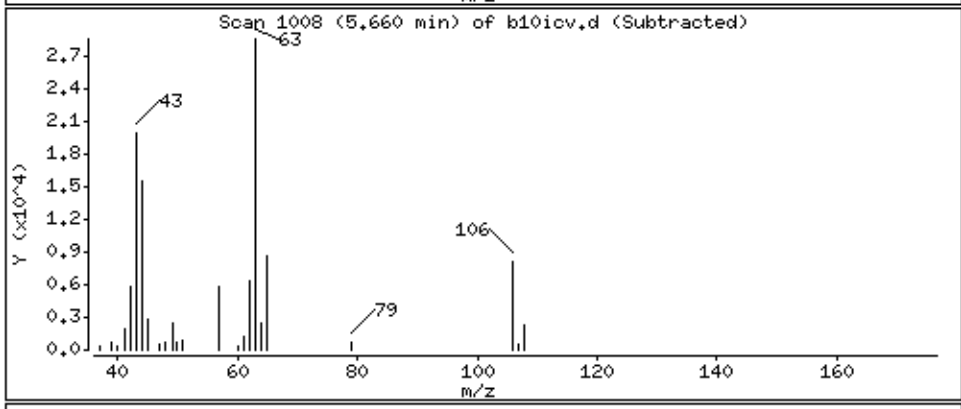
Column diameter: 0.18

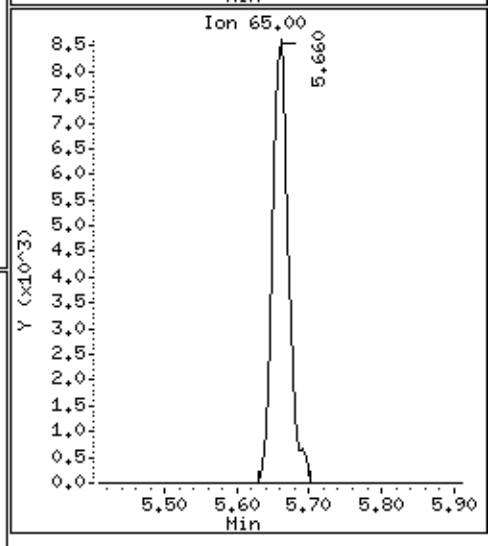
54 2-Chloroethyl vinyl ether

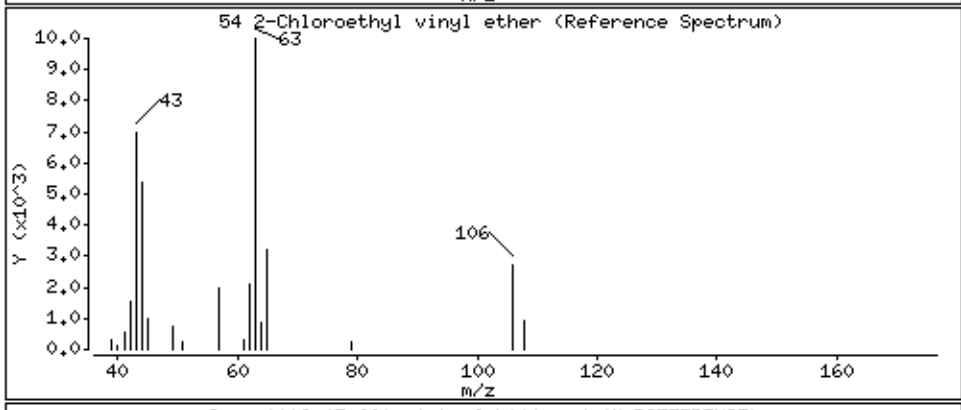
Concentration: 53.7 ppb

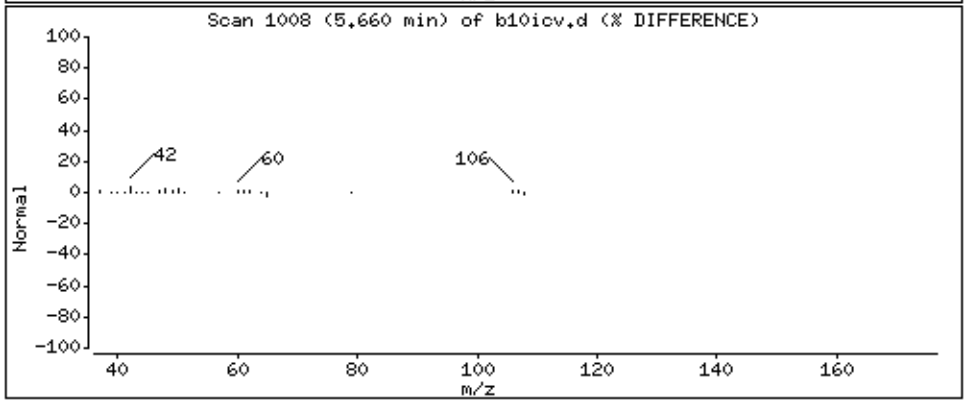












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

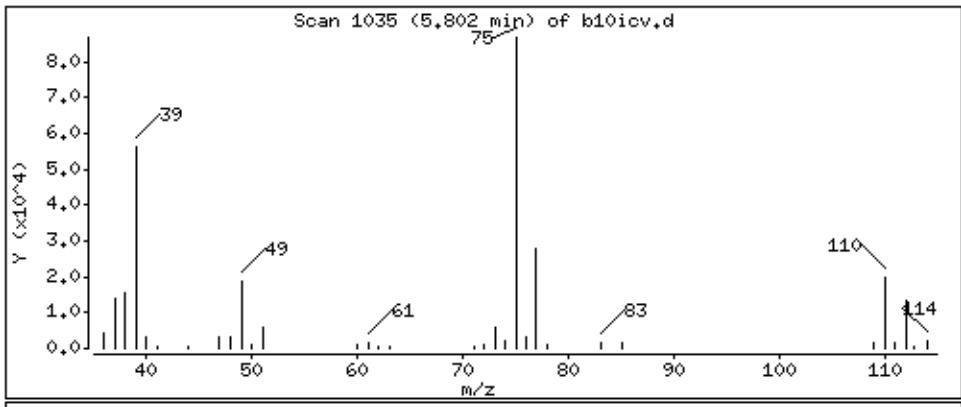
Operator: grm

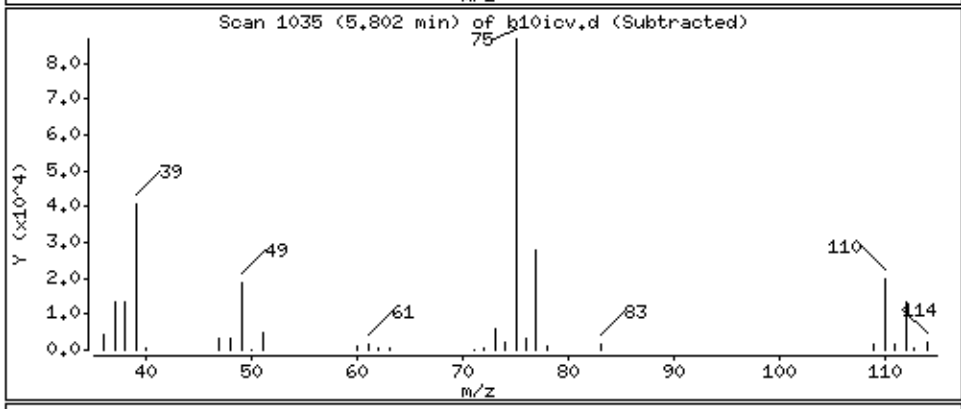
Column phase: DB-624

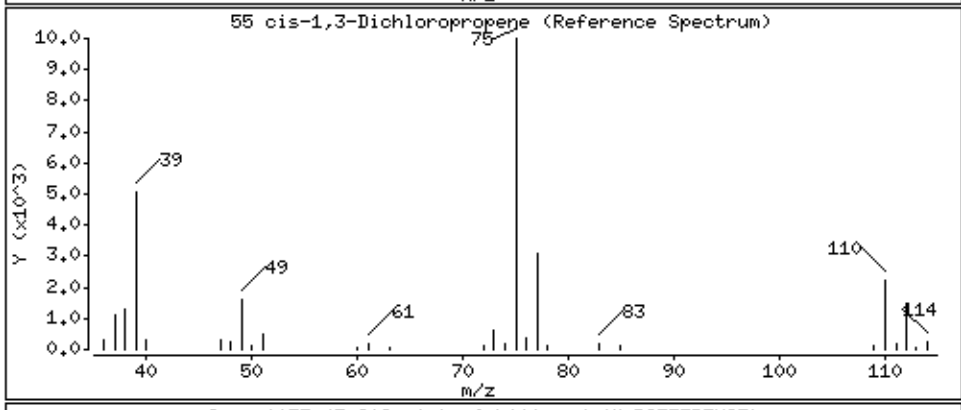
Column diameter: 0.18

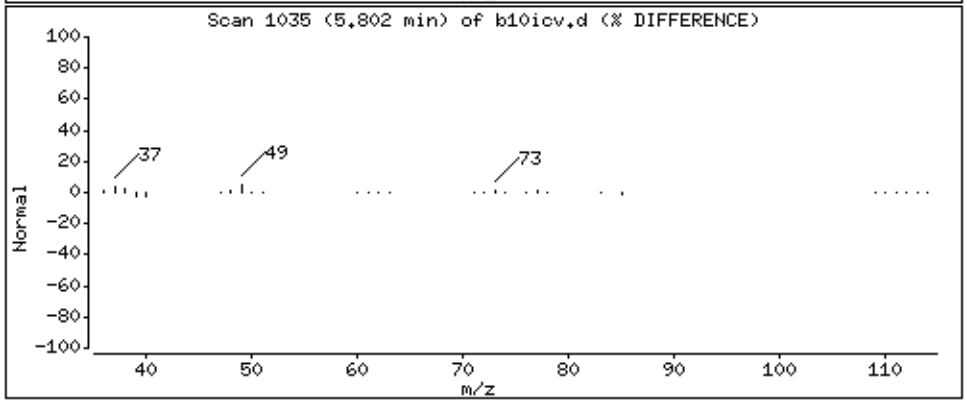
55 cis-1,3-Dichloropropene

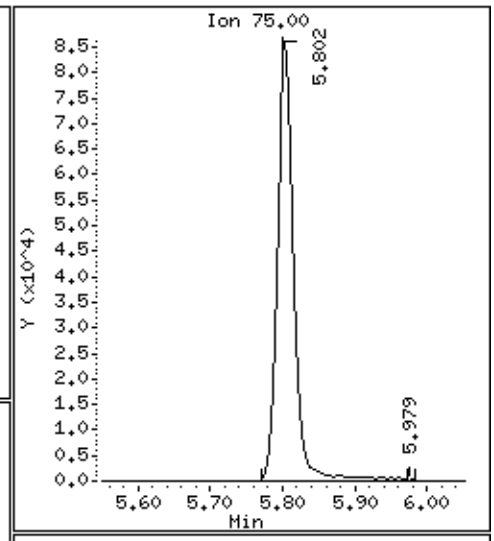
Concentration: 54.4 ppb

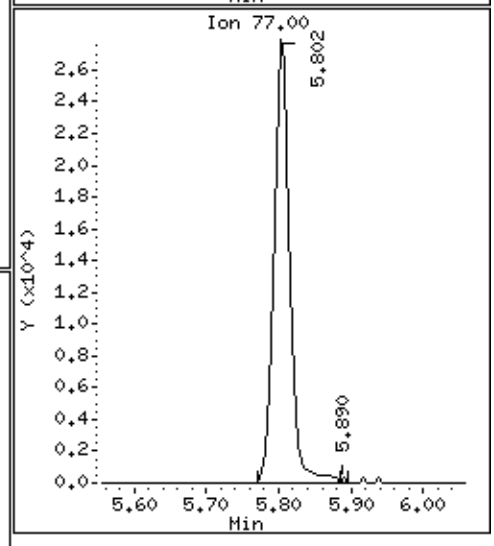












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

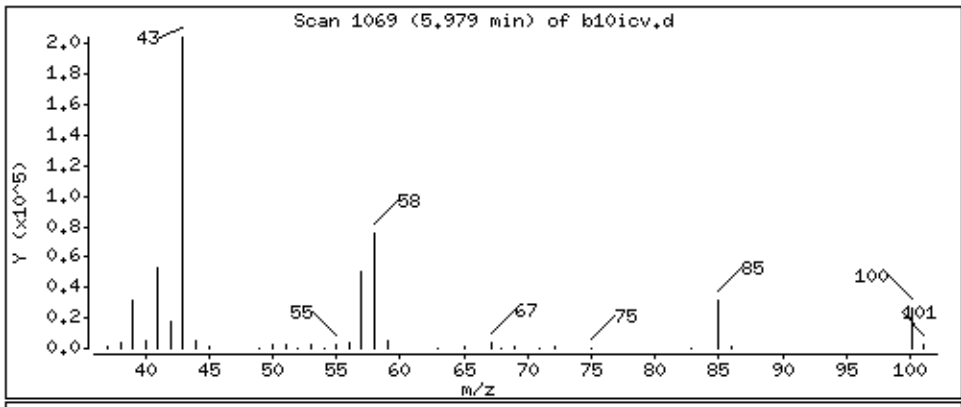
Operator: grm

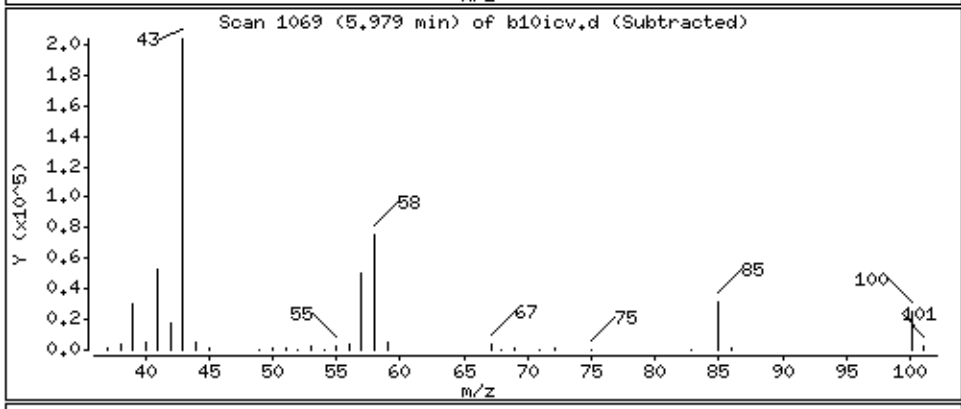
Column phase: DB-624

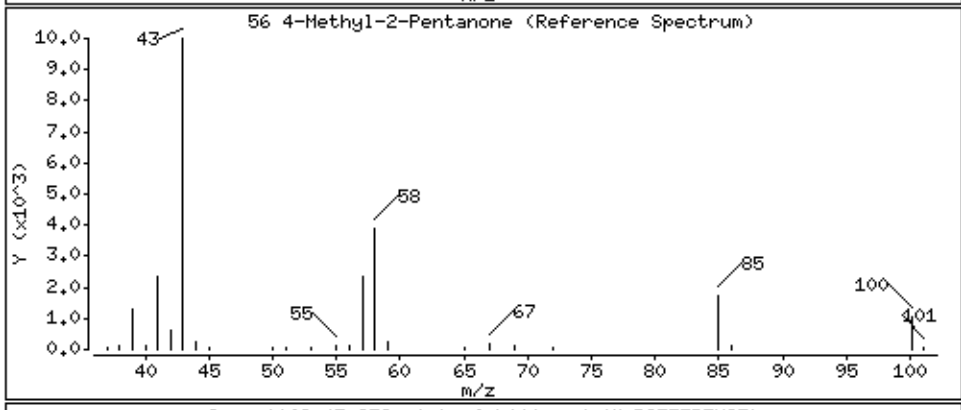
Column diameter: 0.18

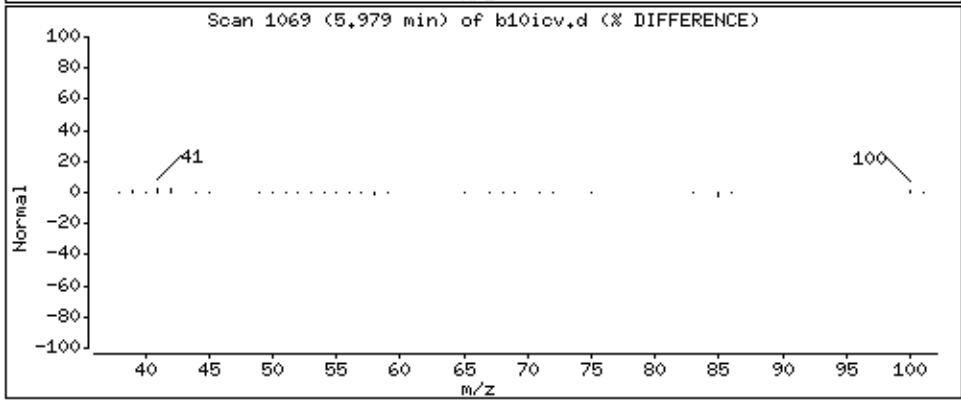
56 4-Methyl-2-Pentanone

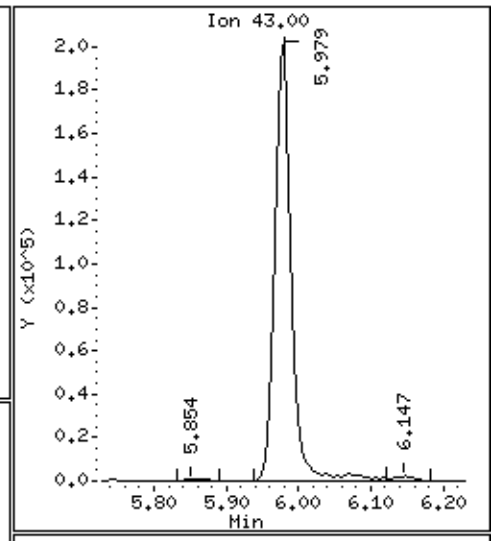
Concentration: 264 ppb

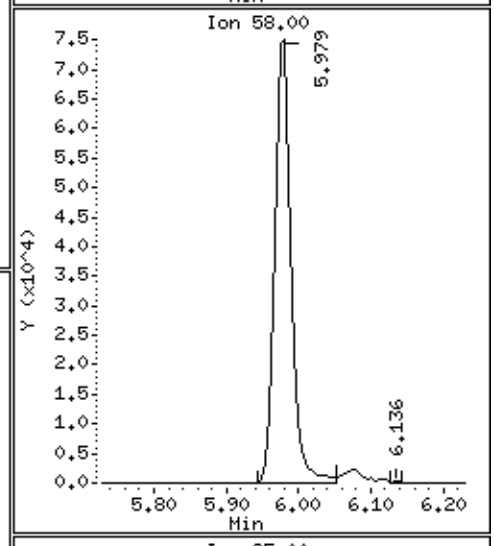


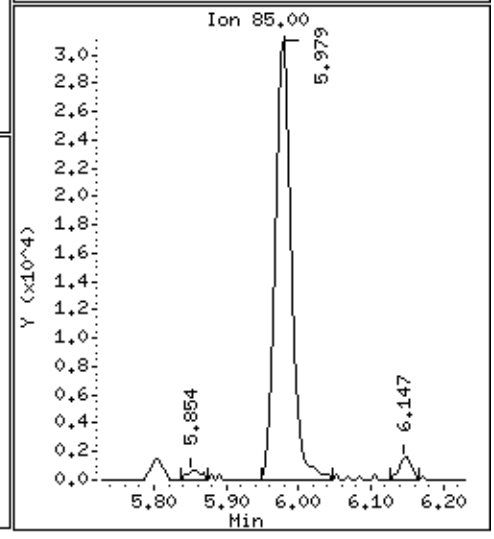












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

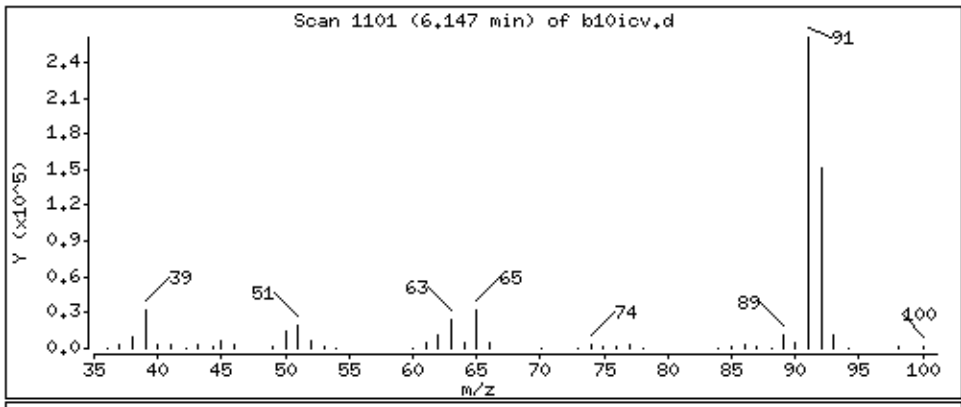
Operator: grm

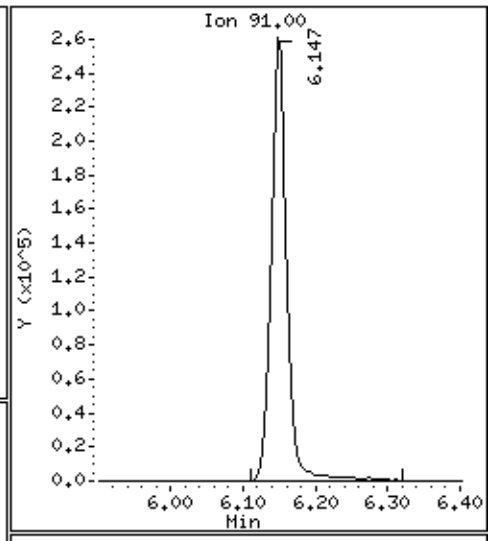
Column phase: DB-624

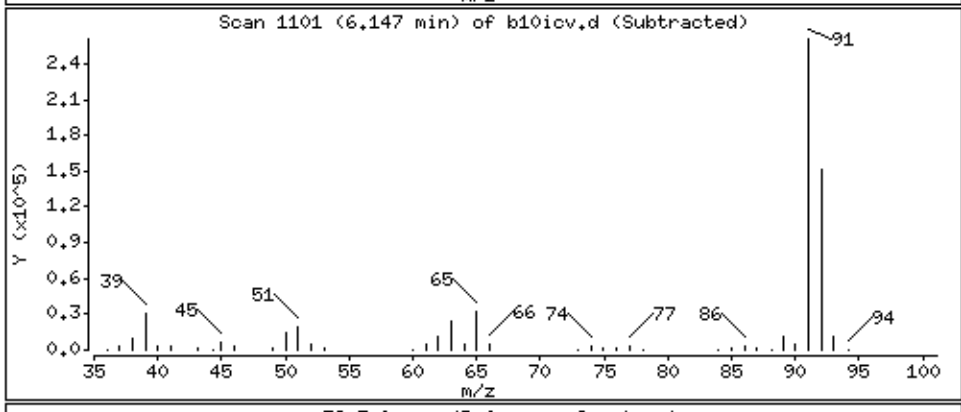
Column diameter: 0.18

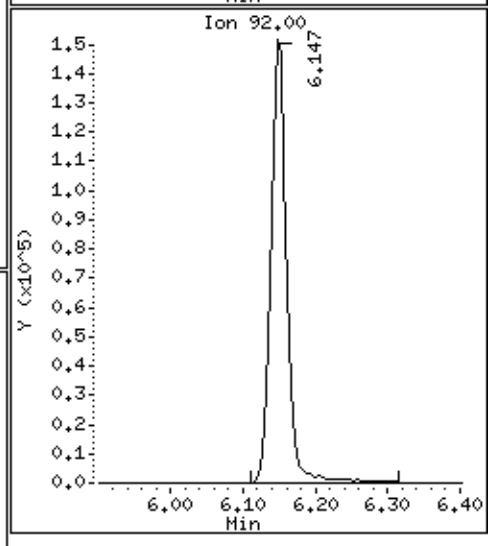
58 Toluene

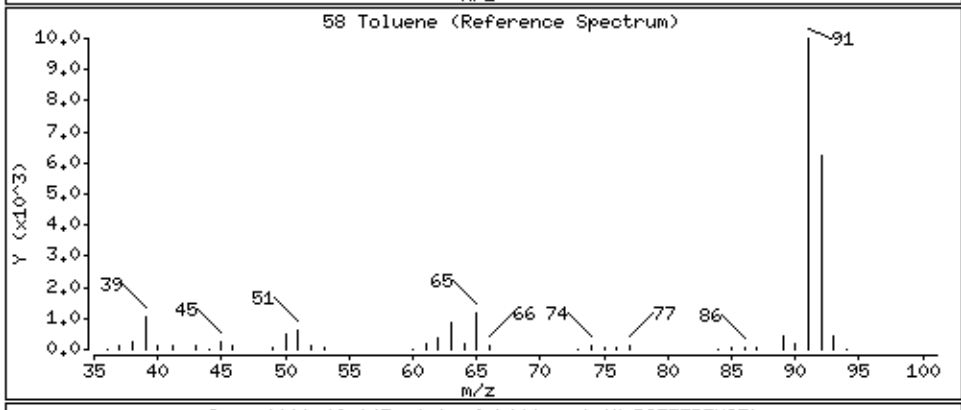
Concentration: 51.8 ppb

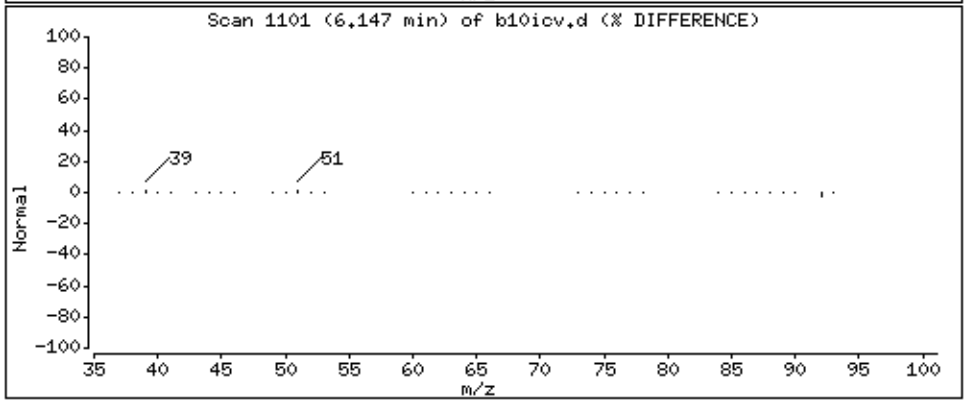












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

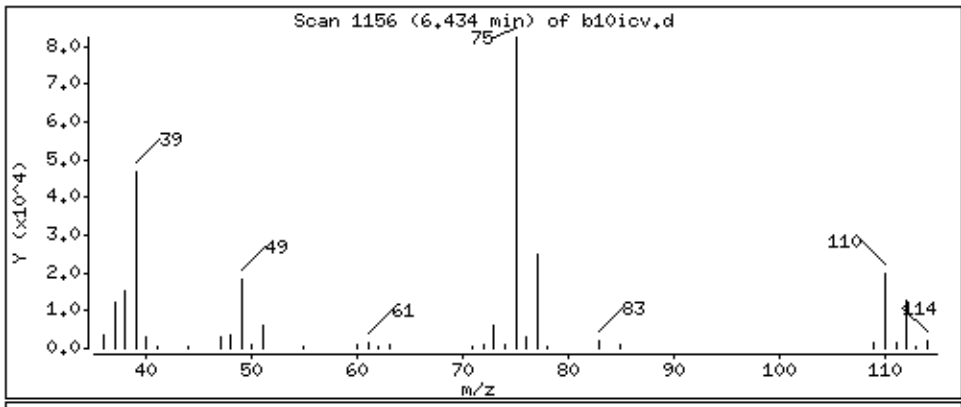
Operator: grm

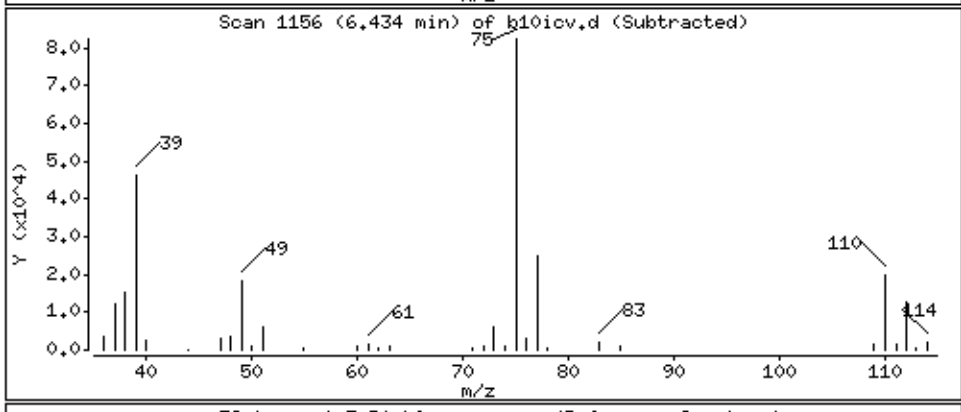
Column phase: DB-624

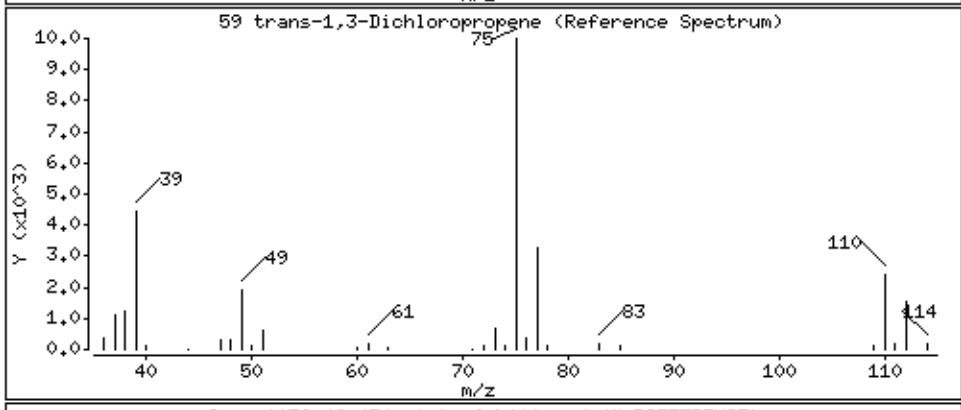
Column diameter: 0.18

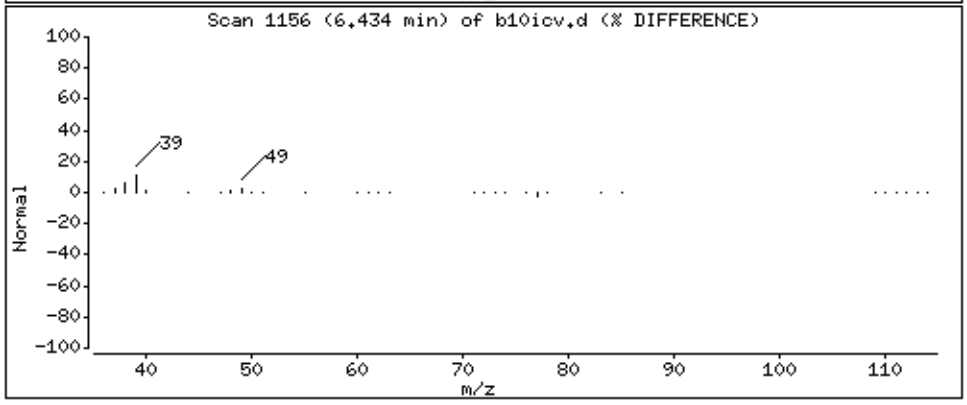
59 trans-1,3-Dichloropropene

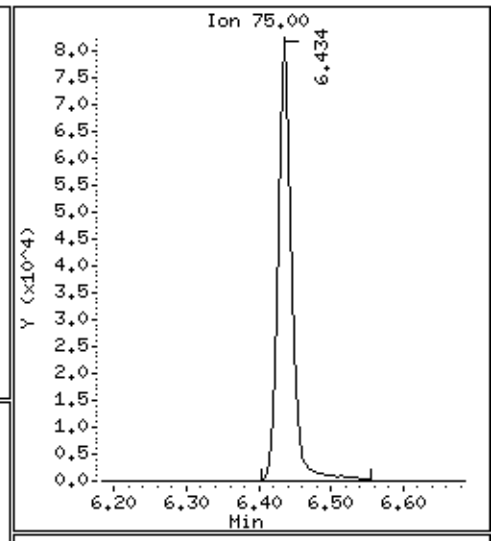
Concentration: 54.1 ppb

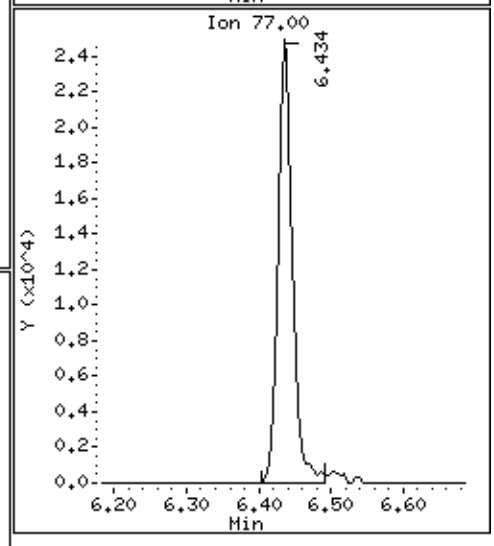












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

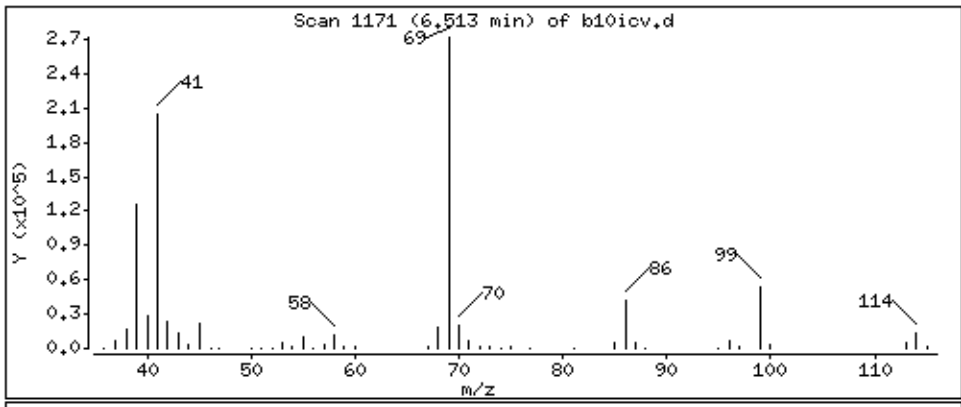
Operator: grm

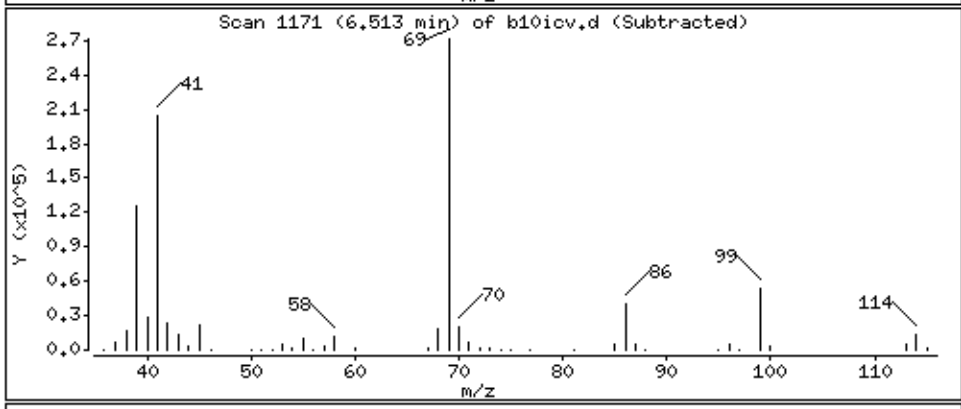
Column phase: DB-624

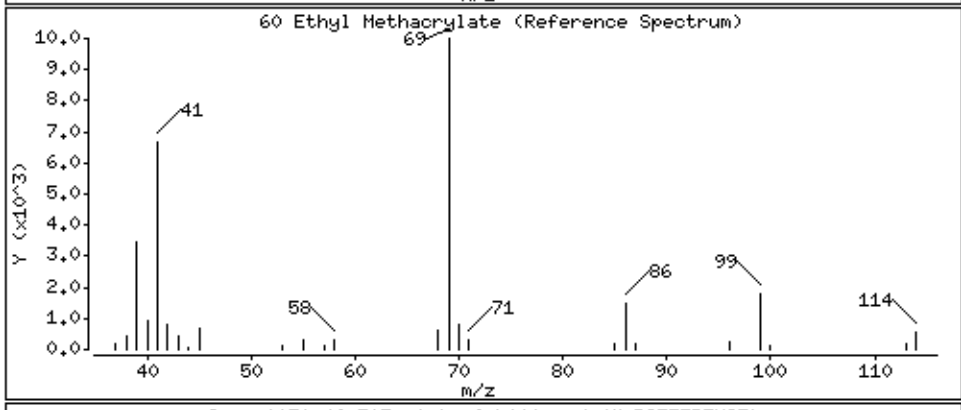
Column diameter: 0.18

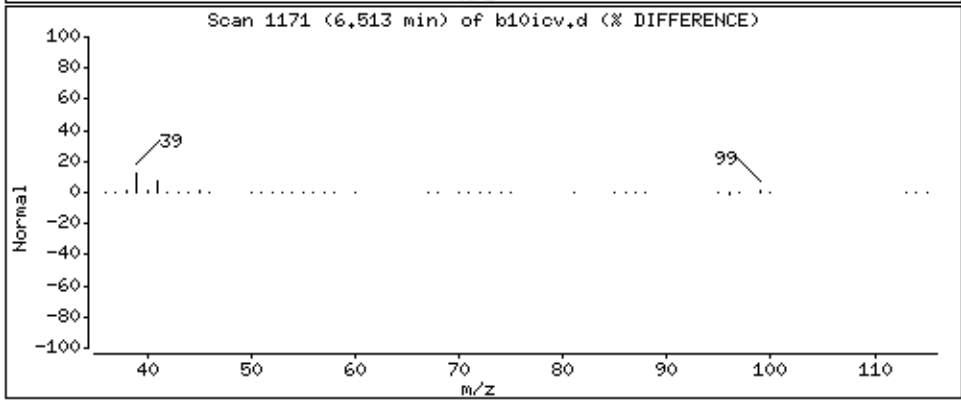
60 Ethyl Methacrylate

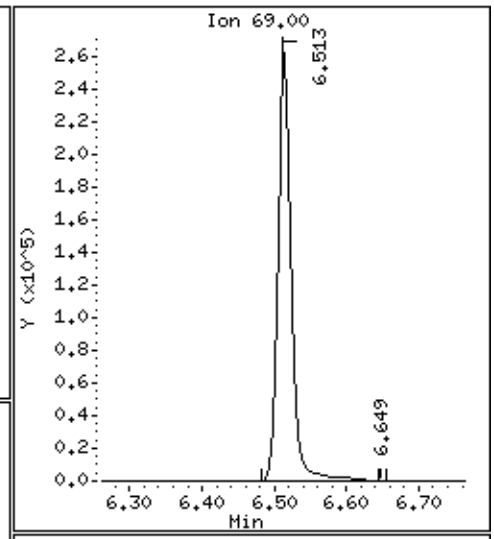
Concentration: 204 ppb

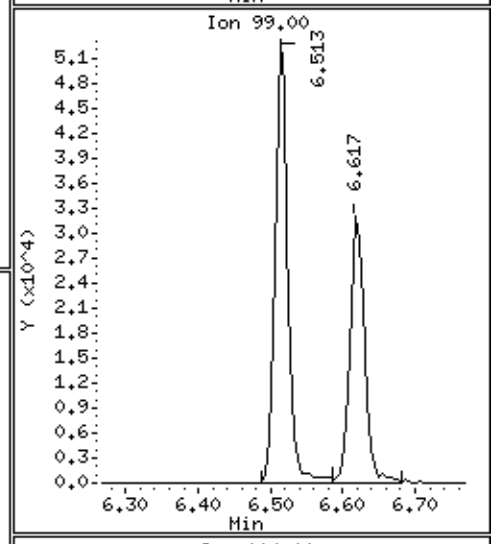


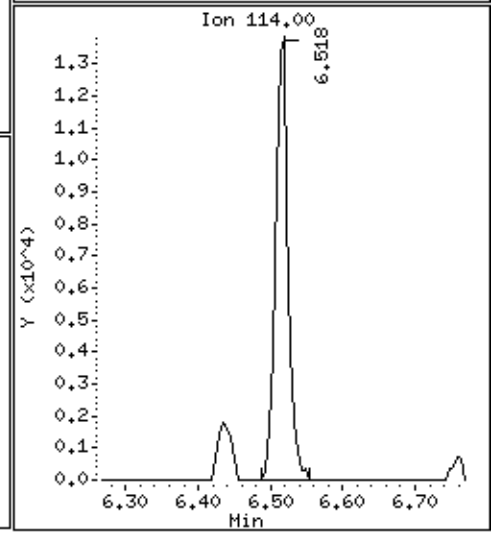












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

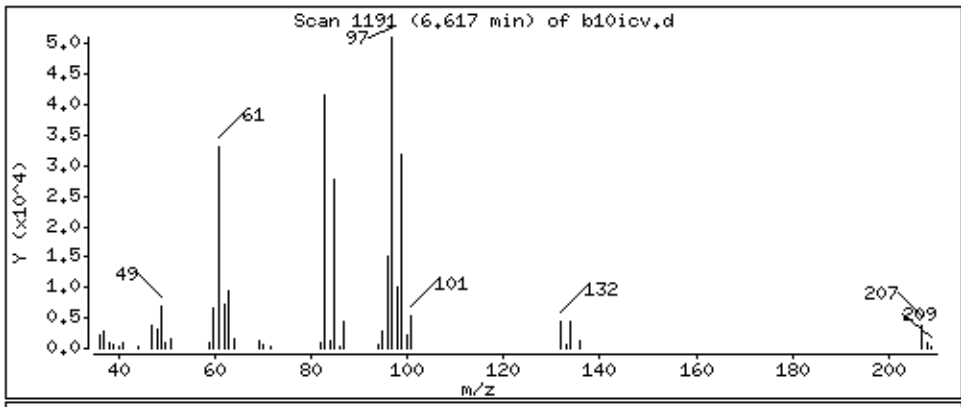
Operator: grm

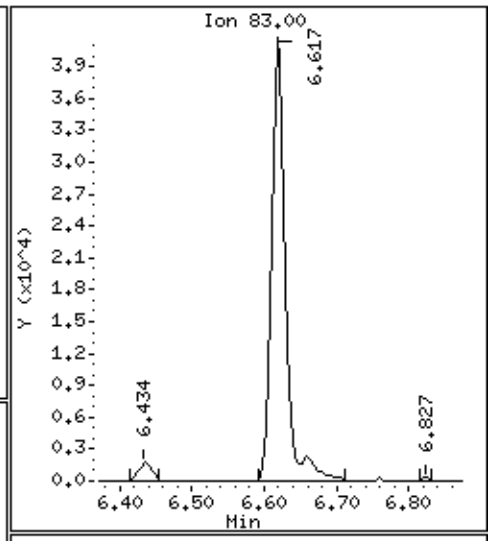
Column phase: DB-624

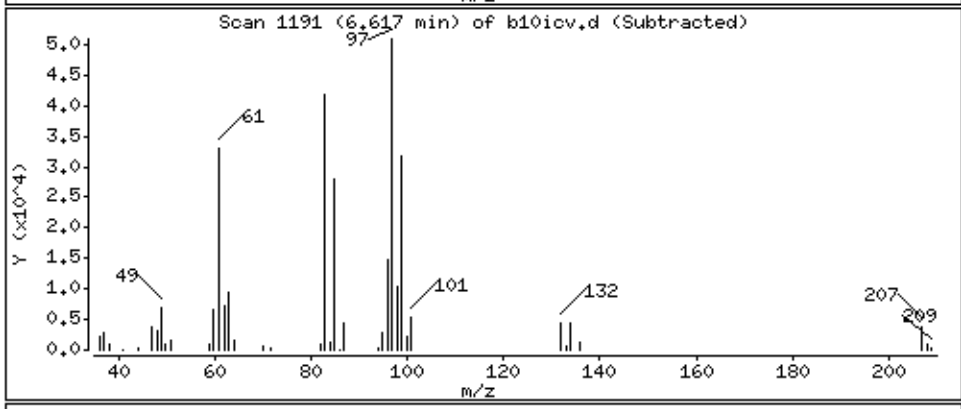
Column diameter: 0.18

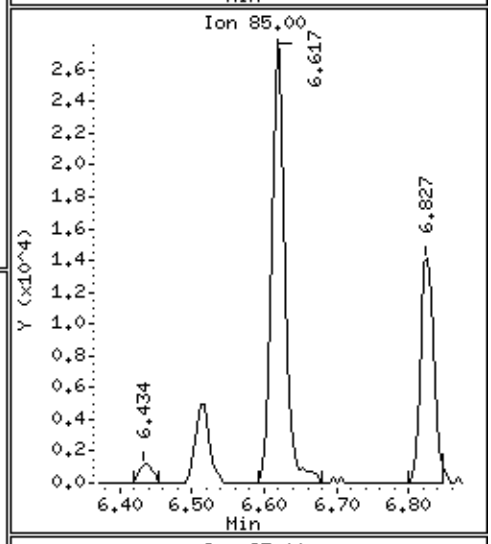
61 1,1,2-Trichloroethane

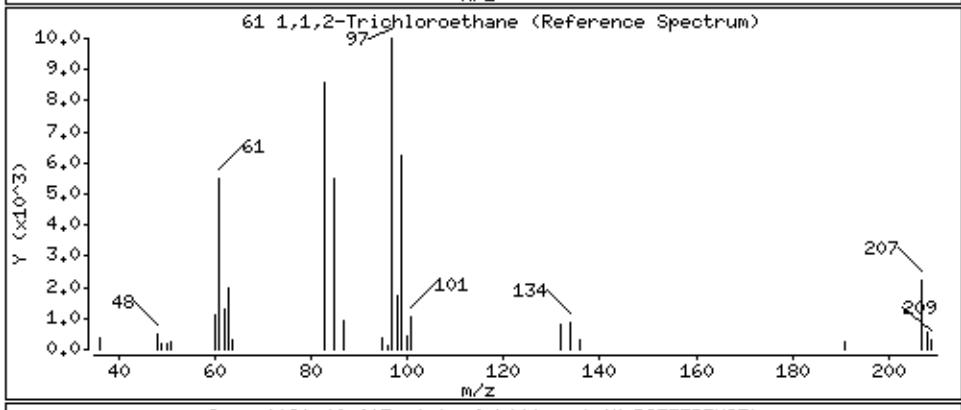
Concentration: 54.3 ppb

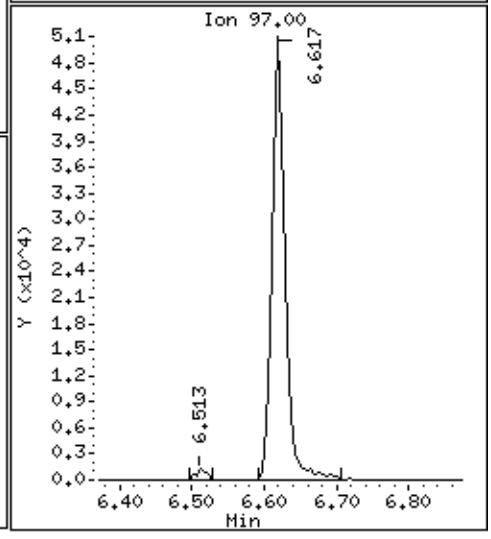


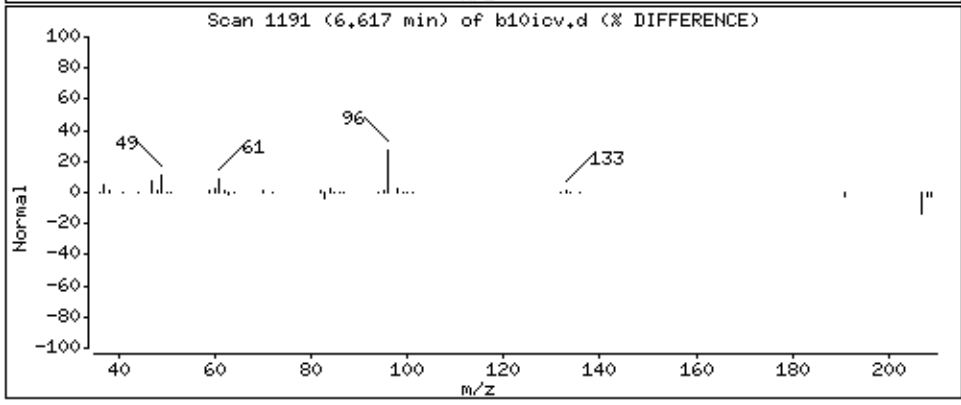












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

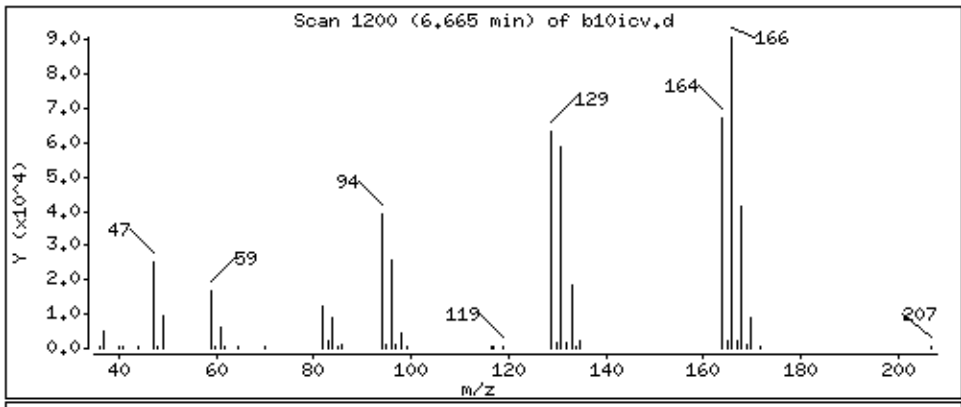
Operator: grm

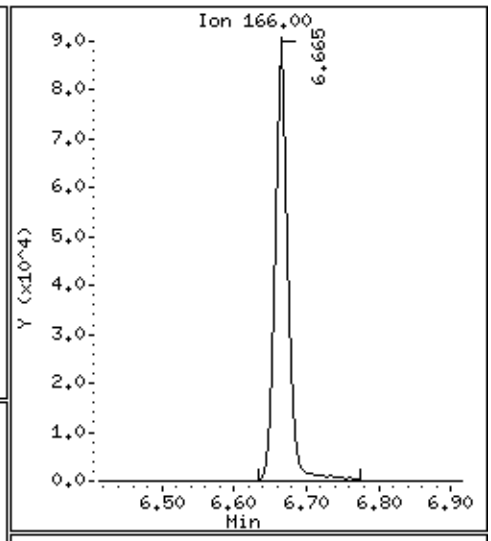
Column phase: DB-624

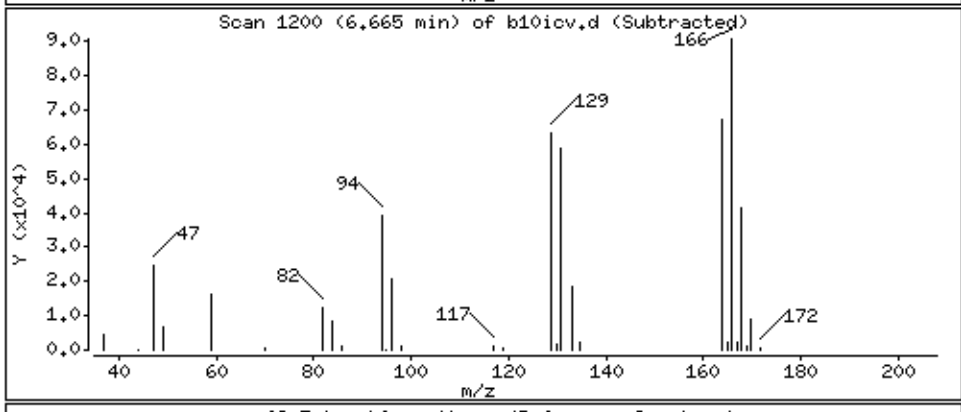
Column diameter: 0.18

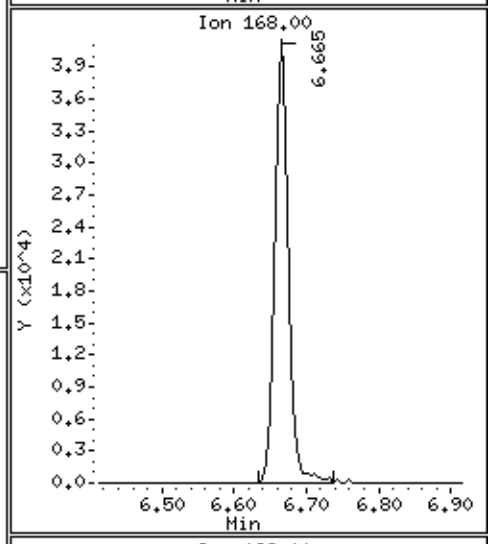
62 Tetrachloroethene

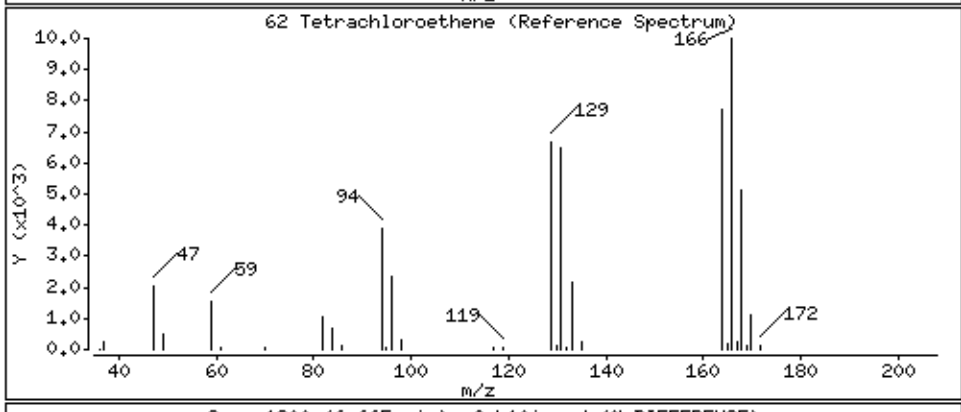
Concentration: 56.0 ppb

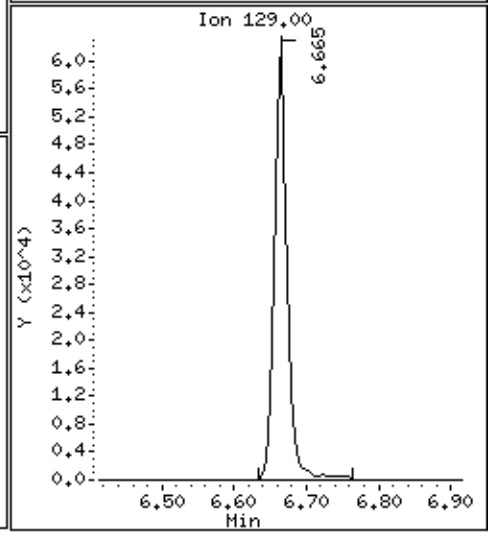


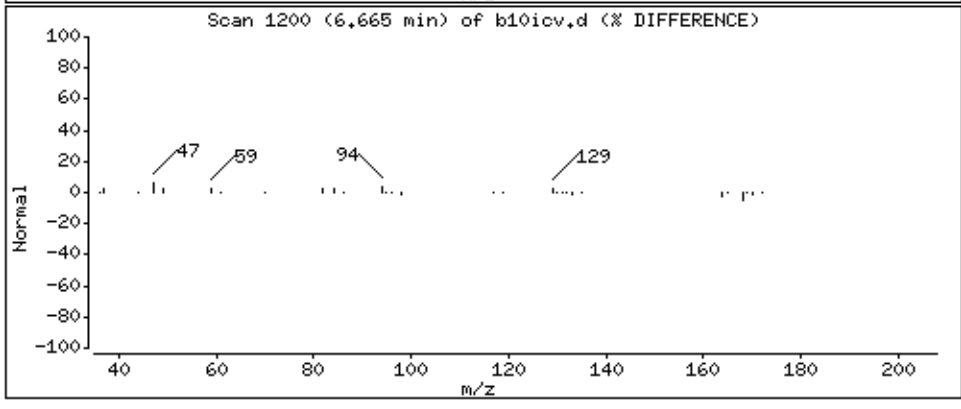












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

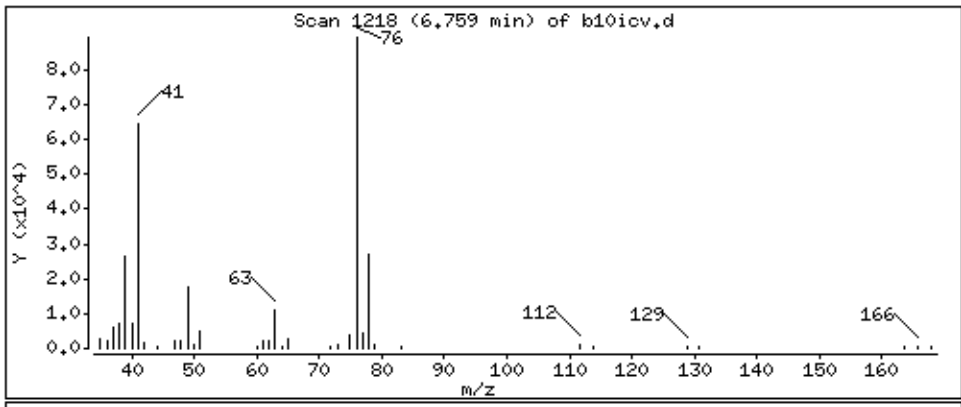
Operator: grm

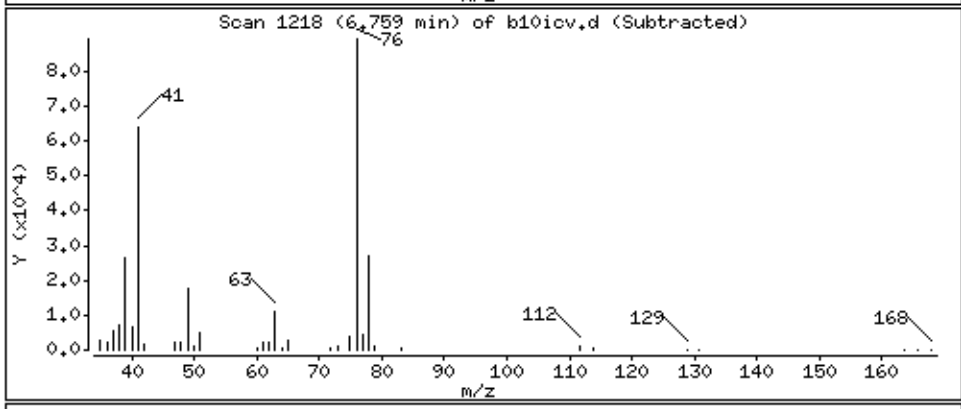
Column phase: DB-624

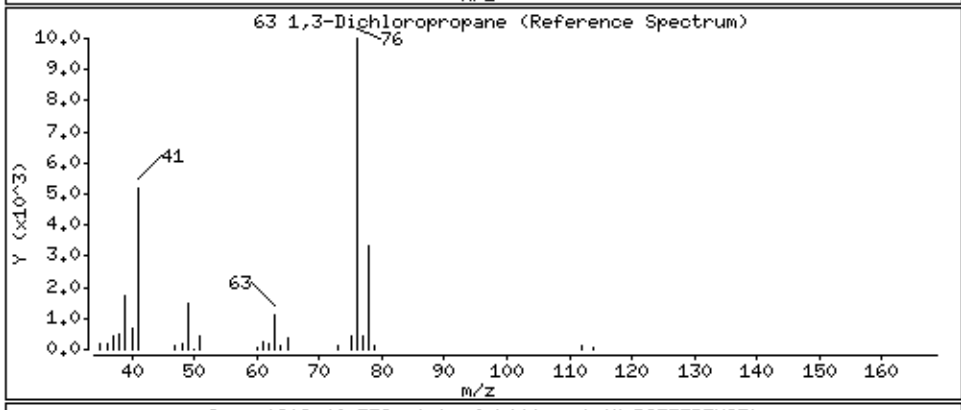
Column diameter: 0.18

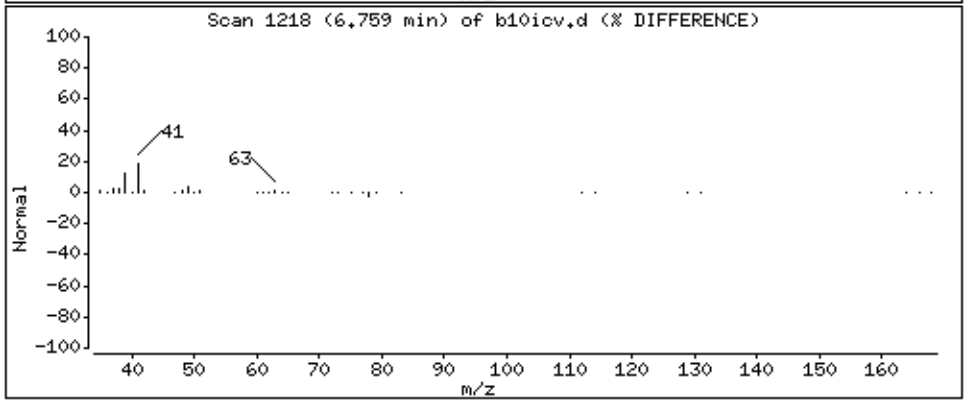
63 1,3-Dichloropropane

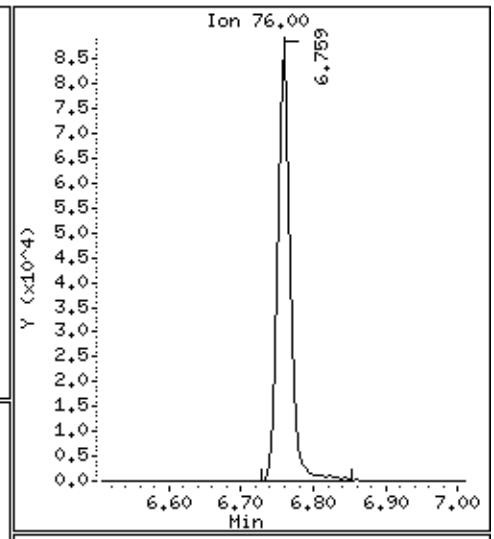
Concentration: 53.6 ppb

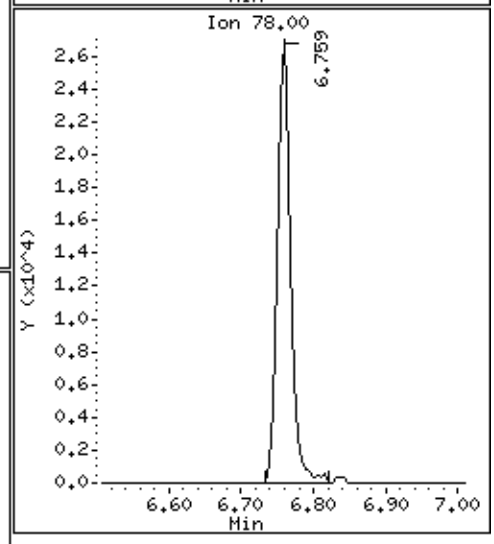












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

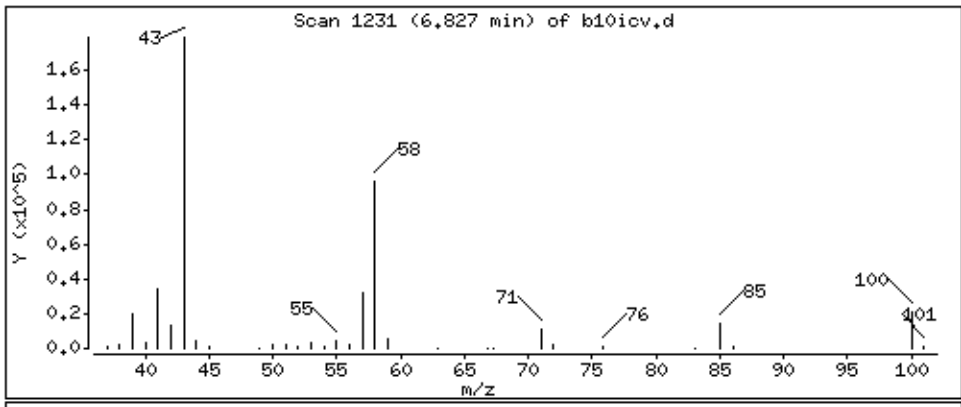
Operator: grm

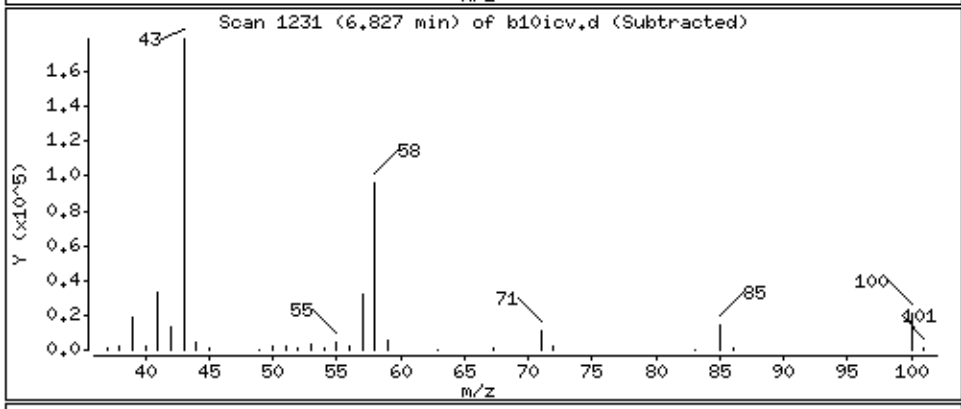
Column phase: DB-624

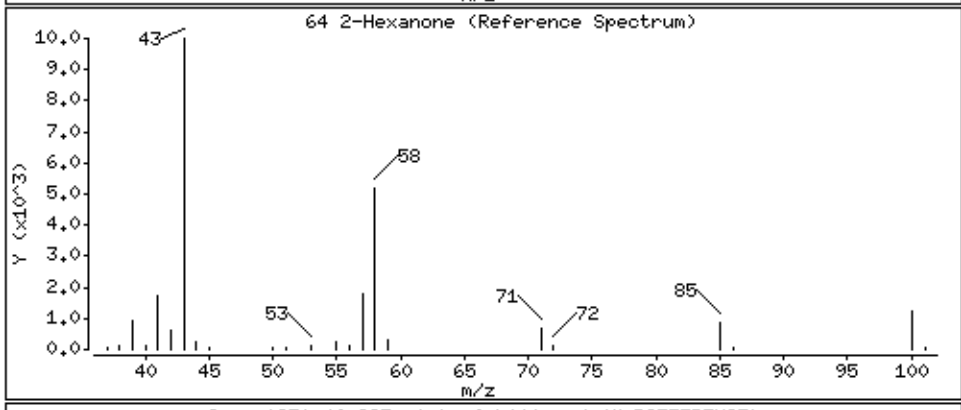
Column diameter: 0.18

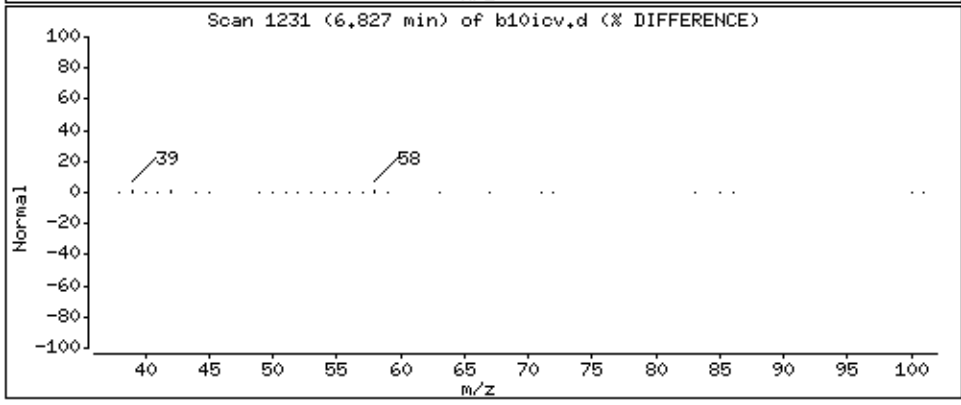
64 2-Hexanone

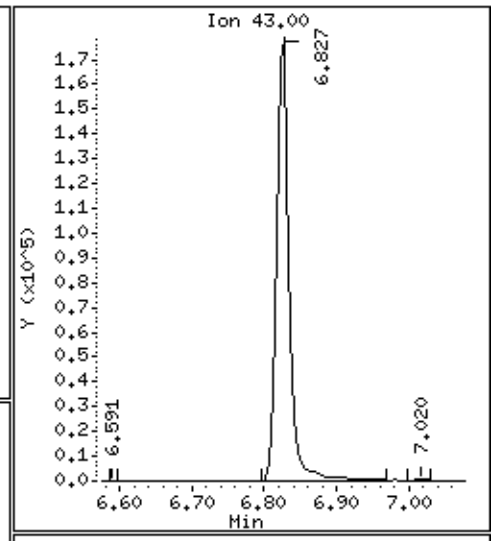
Concentration: 253 ppb

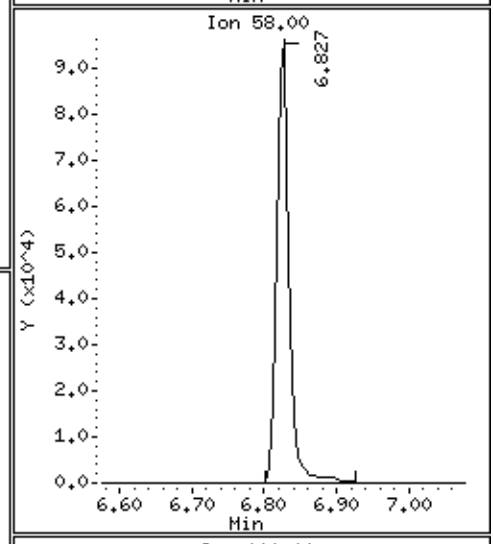


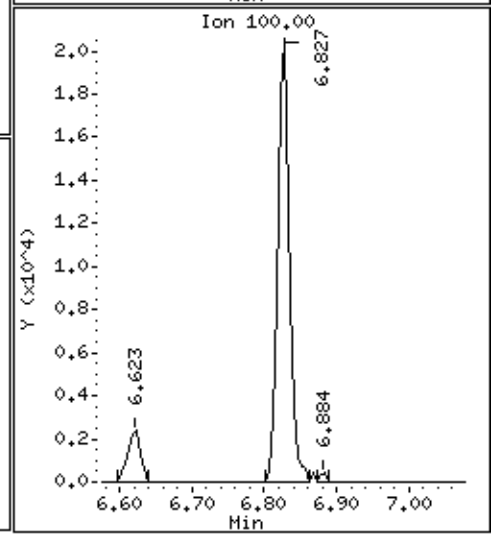












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

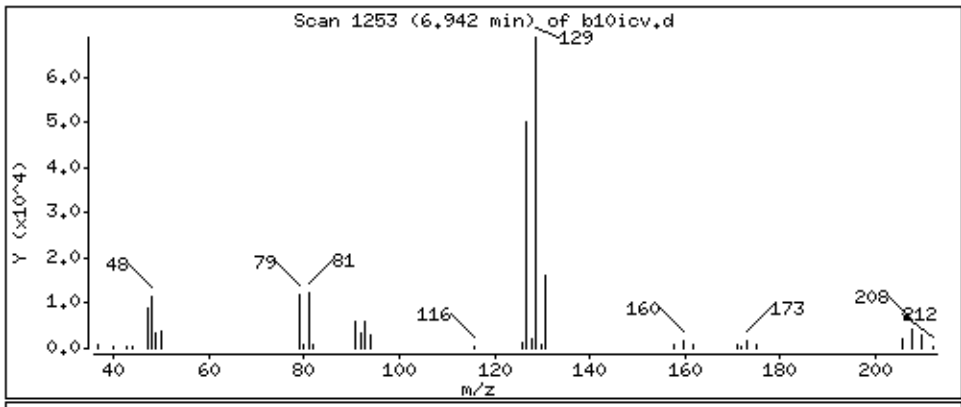
Operator: grm

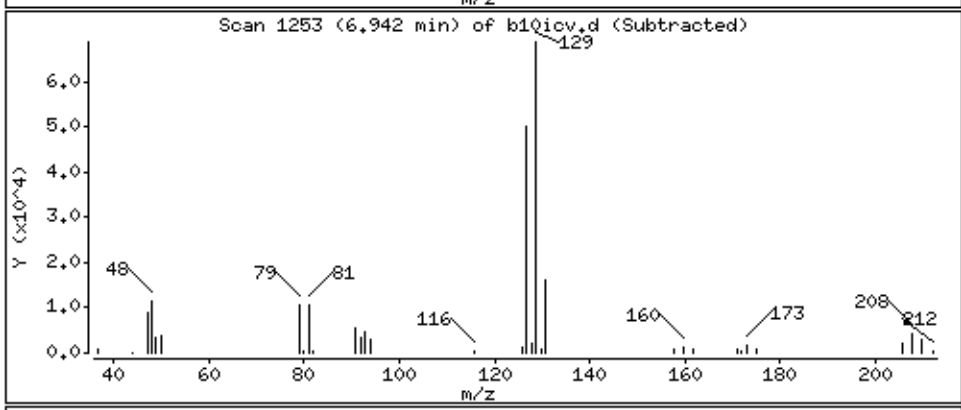
Column phase: DB-624

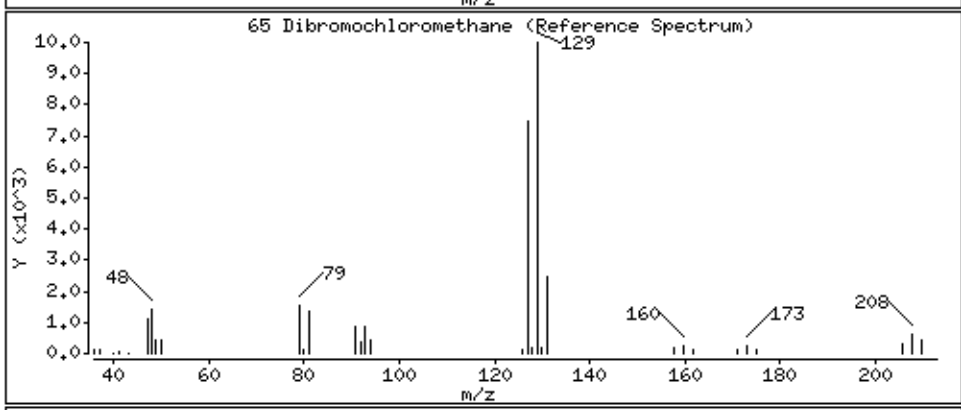
Column diameter: 0.18

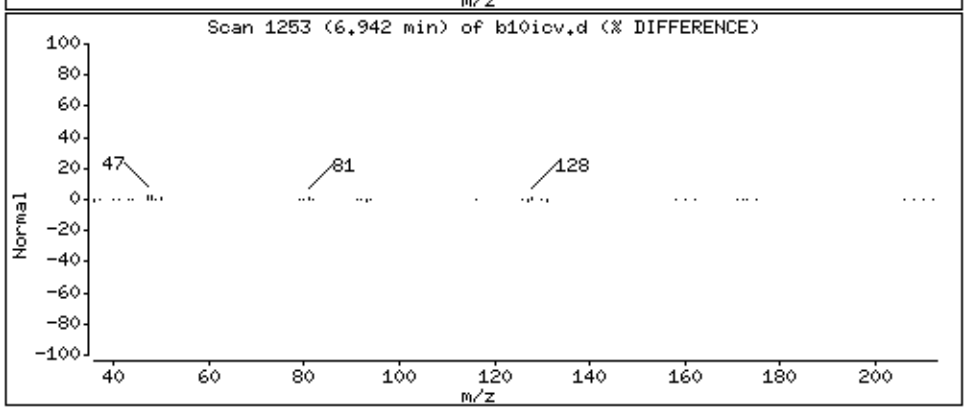
65 Dibromochloromethane

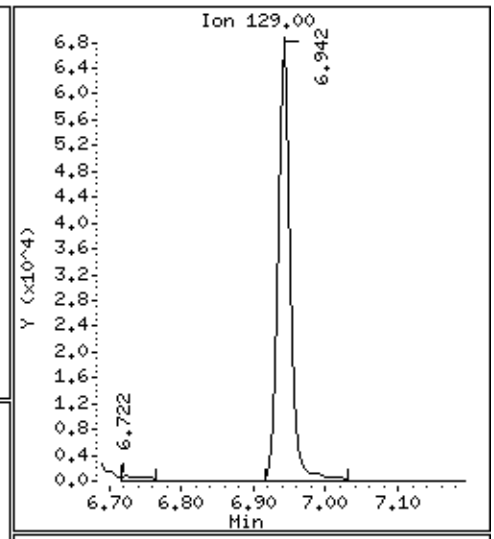
Concentration: 55.0 ppb

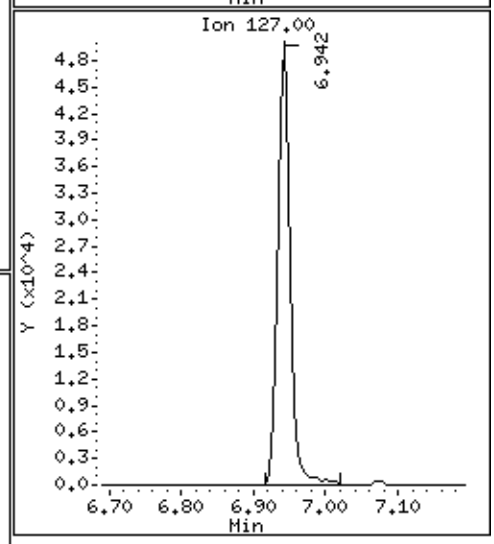












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

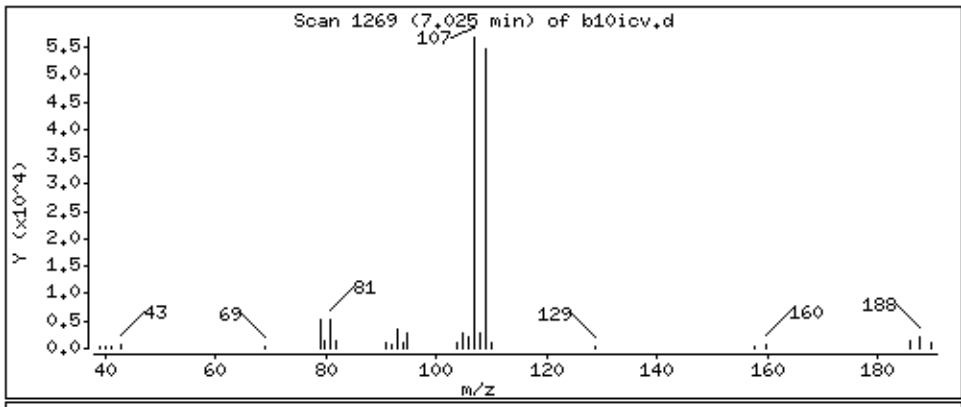
Operator: grm

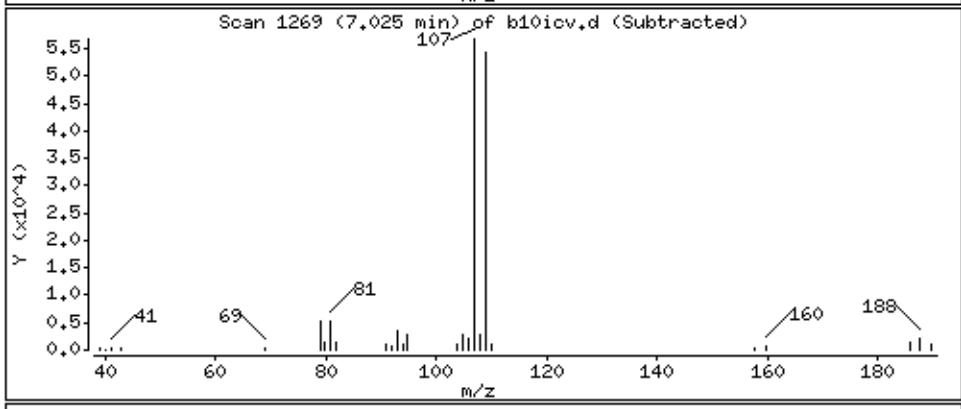
Column phase: DB-624

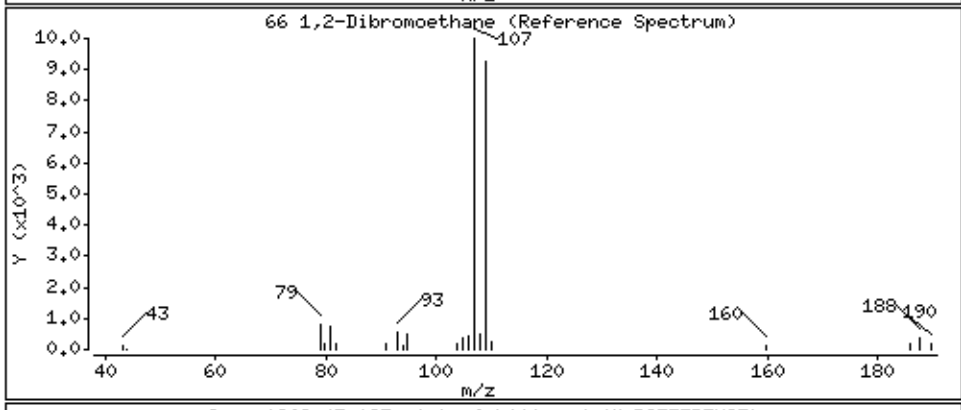
Column diameter: 0.18

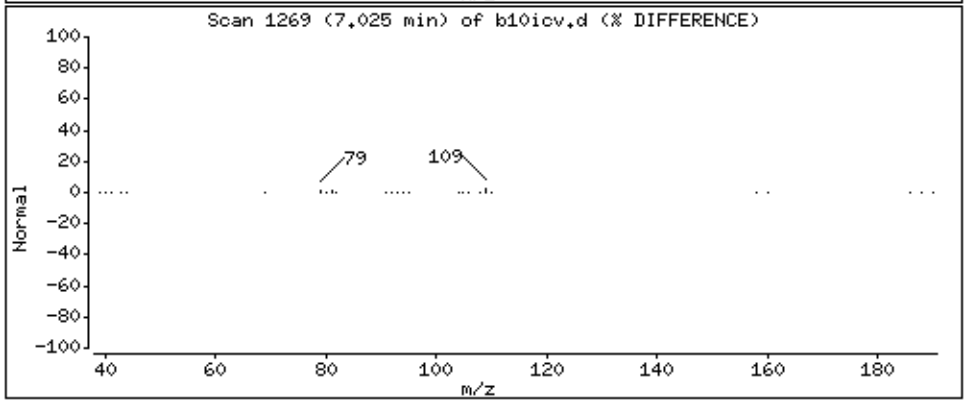
66 1,2-Dibromoethane

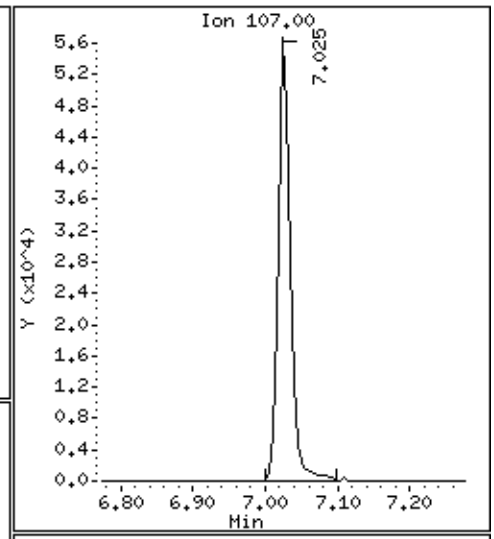
Concentration: 54.3 ppb

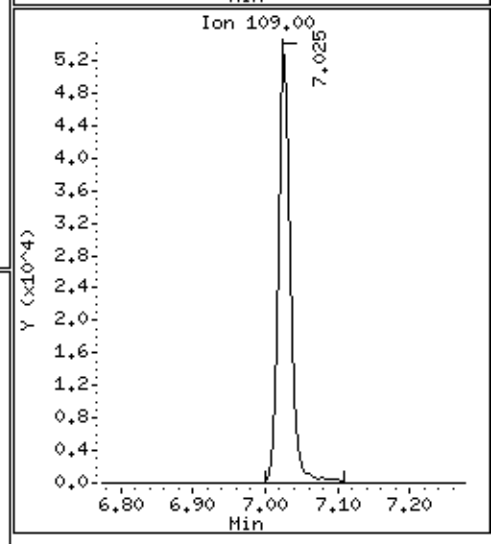












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

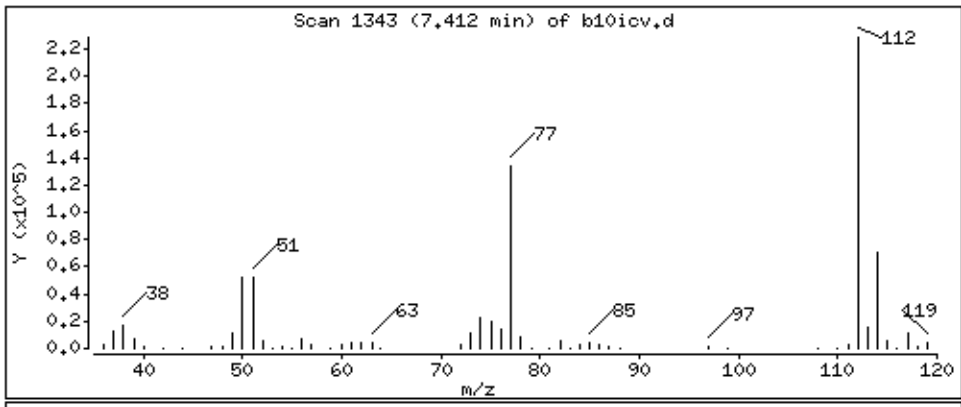
Operator: grm

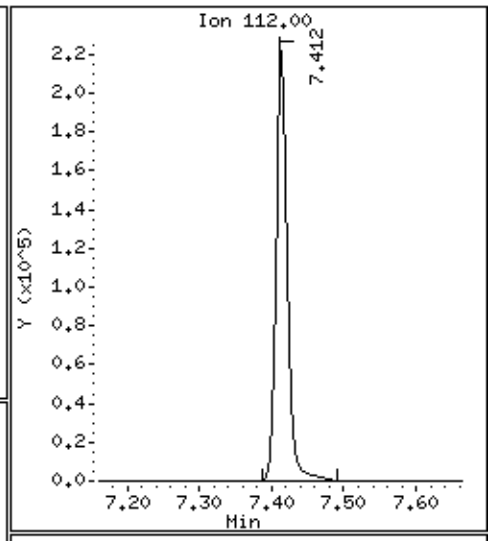
Column phase: DB-624

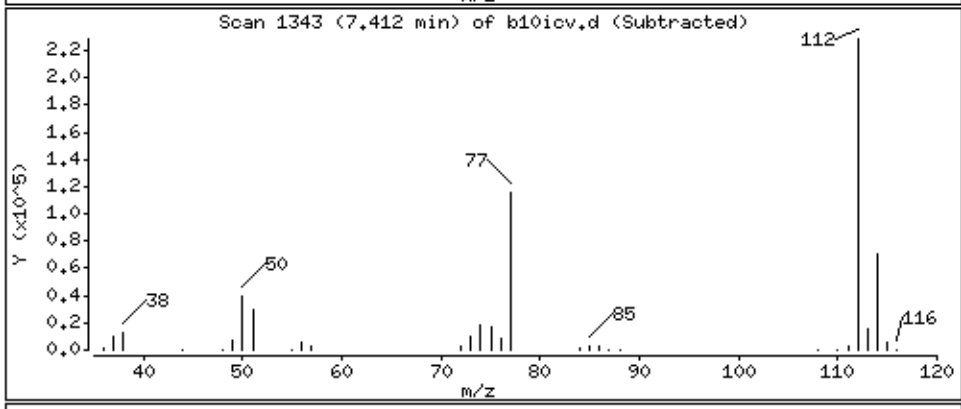
Column diameter: 0.18

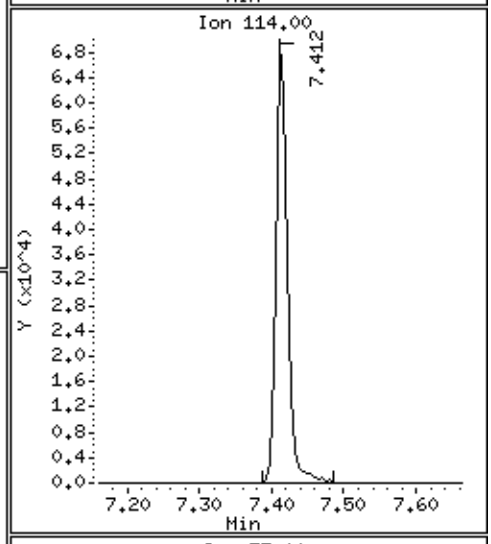
68 Chlorobenzene

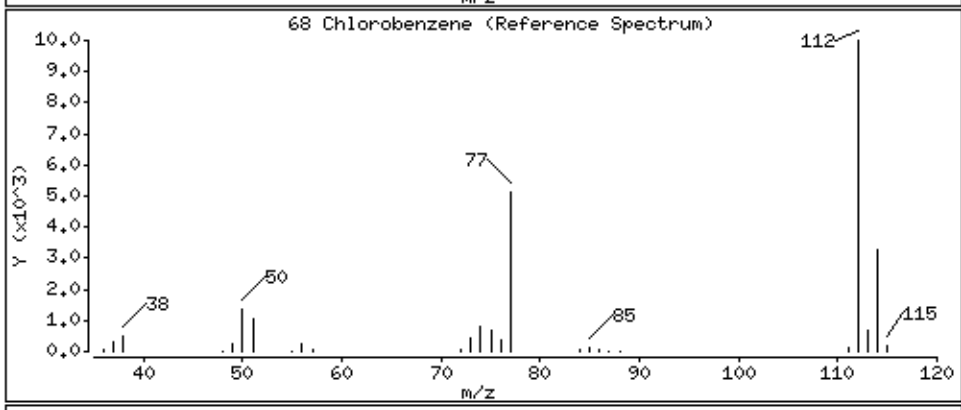
Concentration: 51.2 ppb

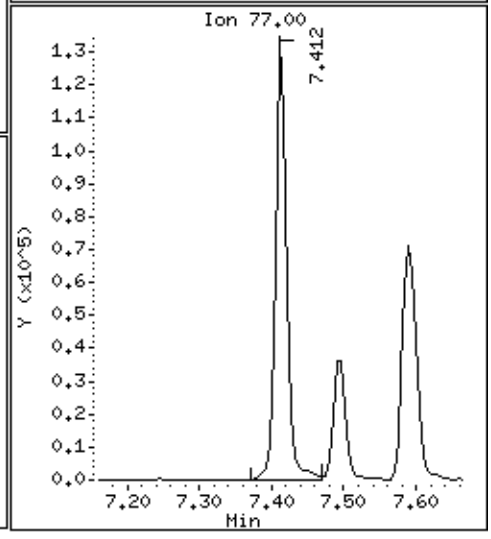


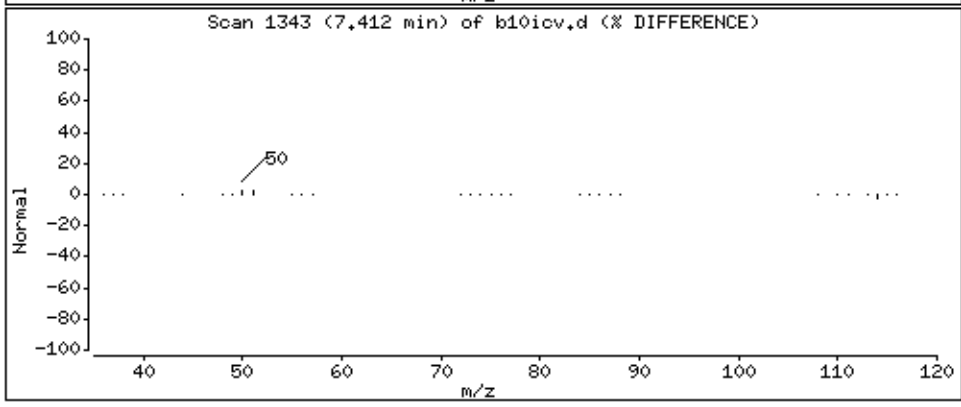












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

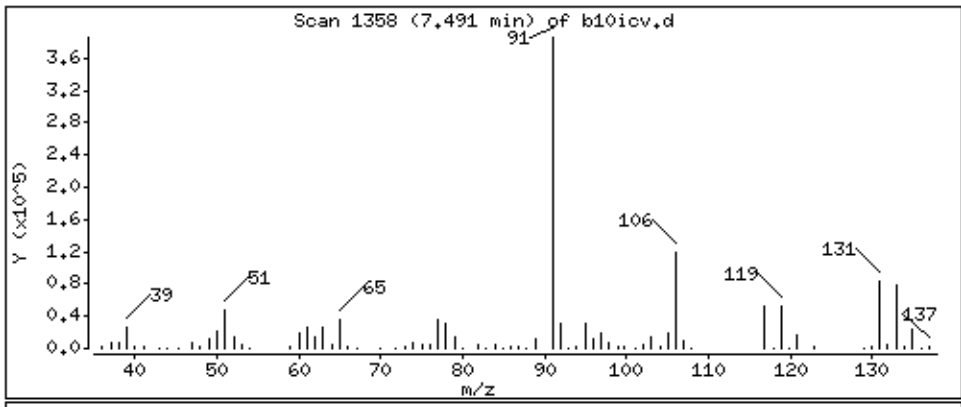
Operator: grm

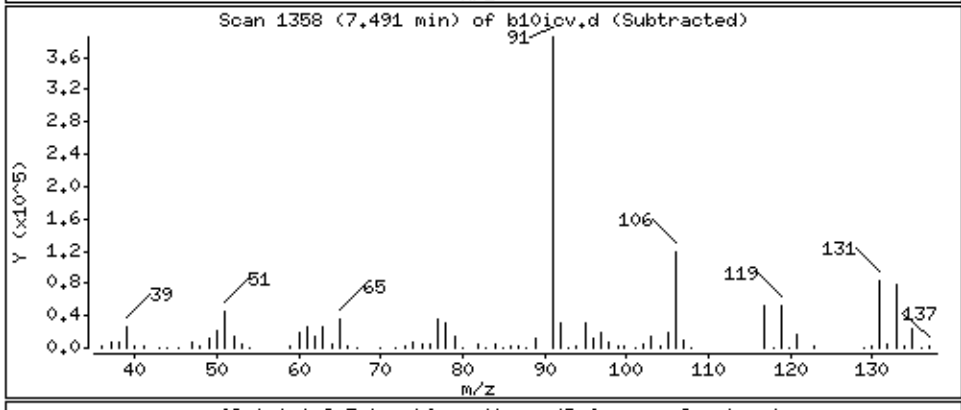
Column phase: DB-624

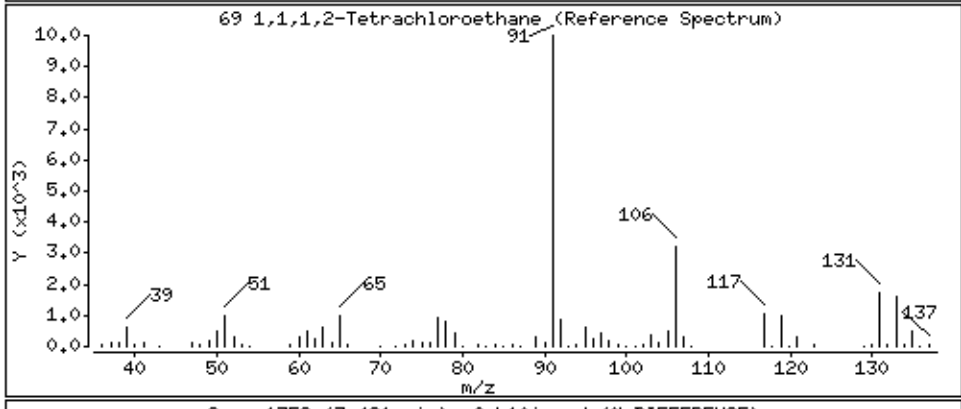
Column diameter: 0.18

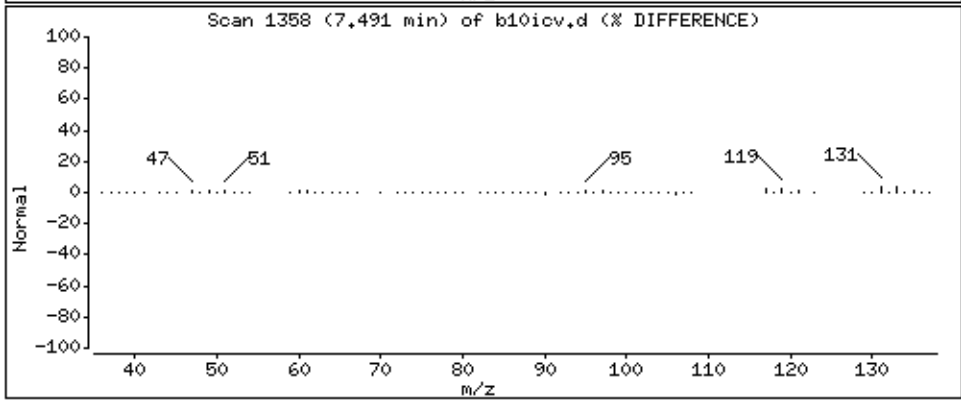
69 1,1,1,2-Tetrachloroethane

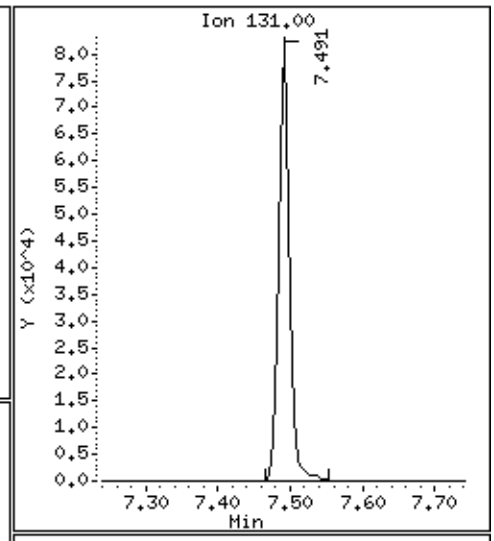
Concentration: 55.9 ppb

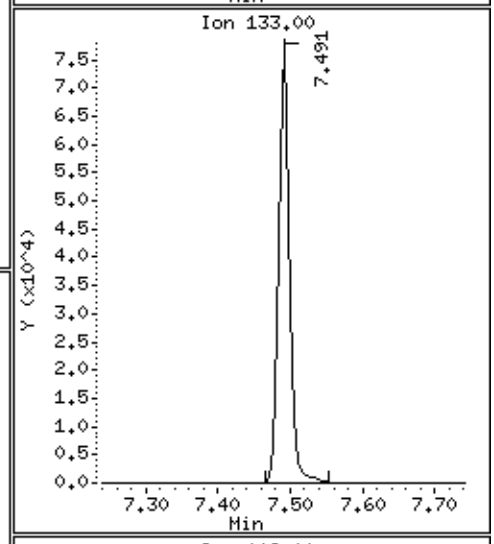


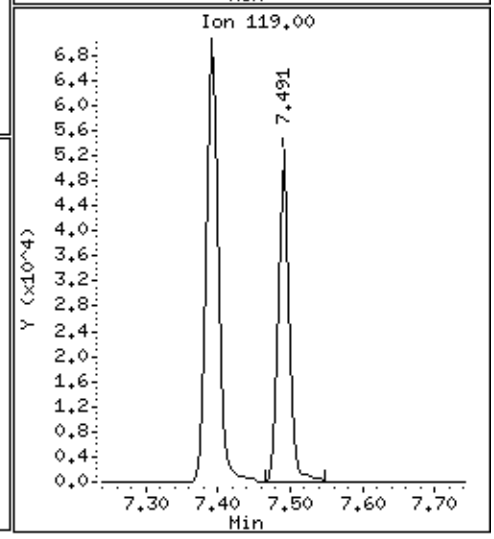












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

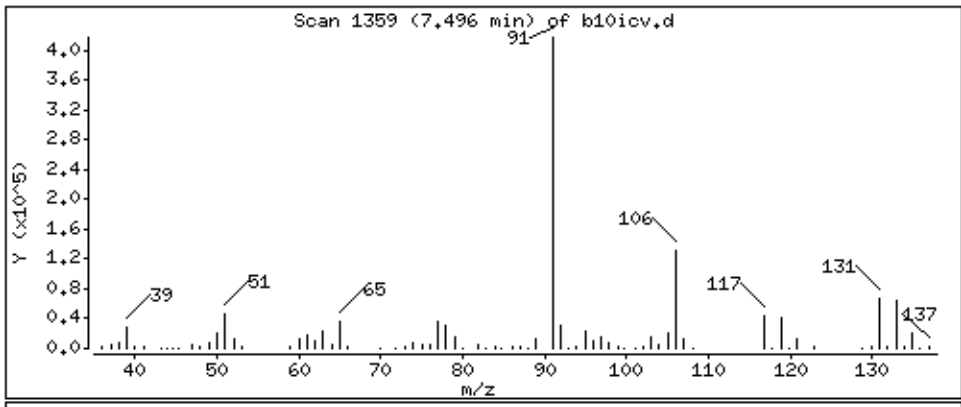
Operator: grm

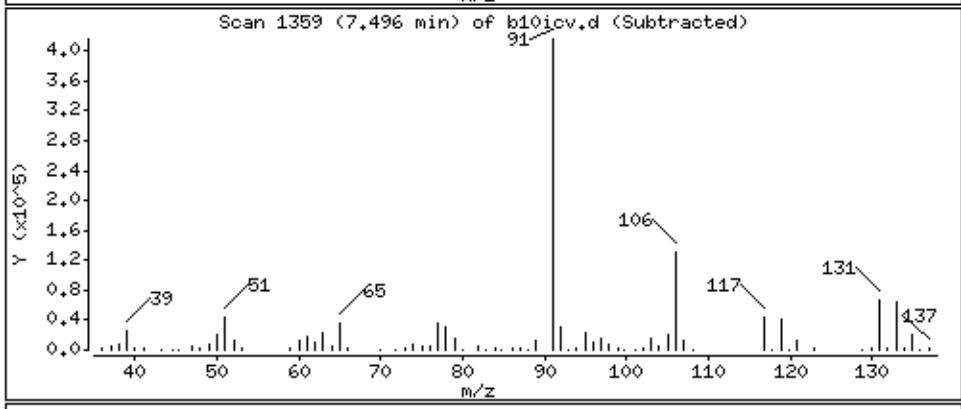
Column phase: DB-624

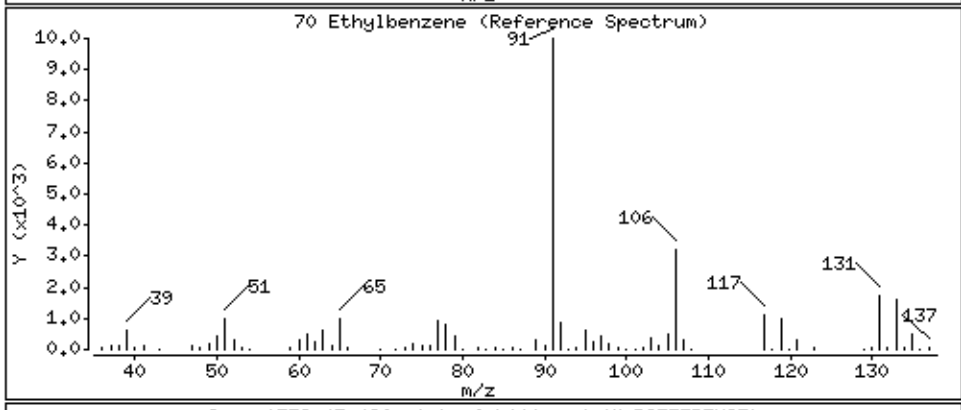
Column diameter: 0.18

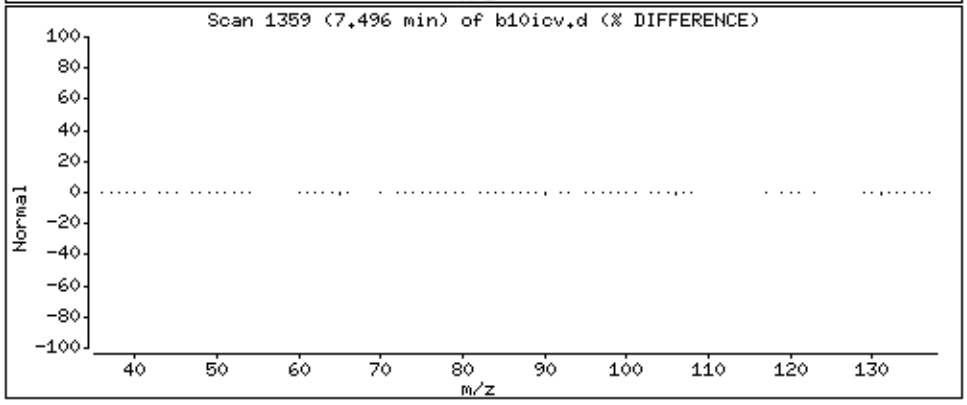
70 Ethylbenzene

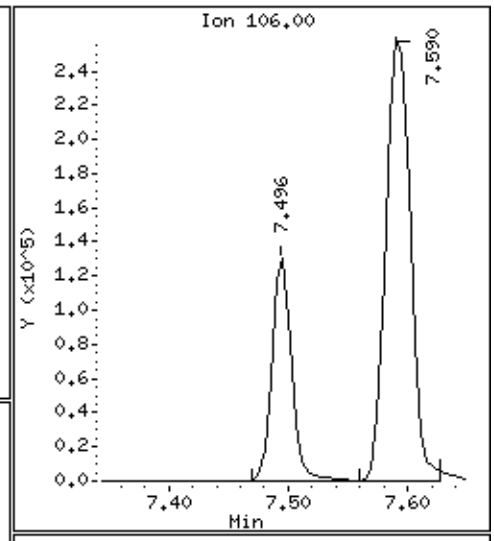
Concentration: 52.1 ppb

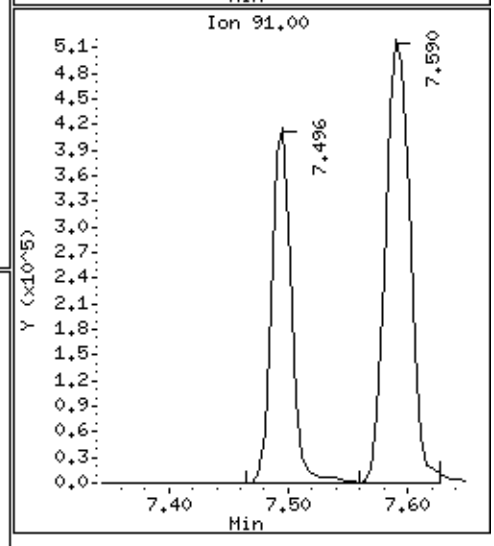












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

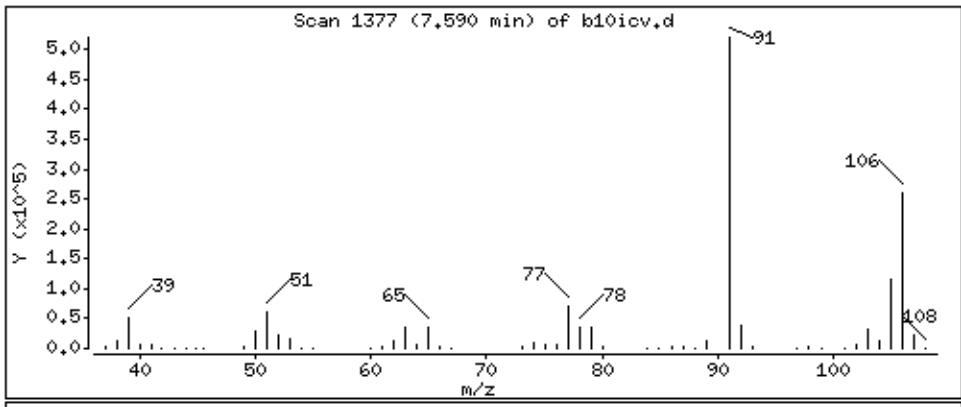
Operator: grm

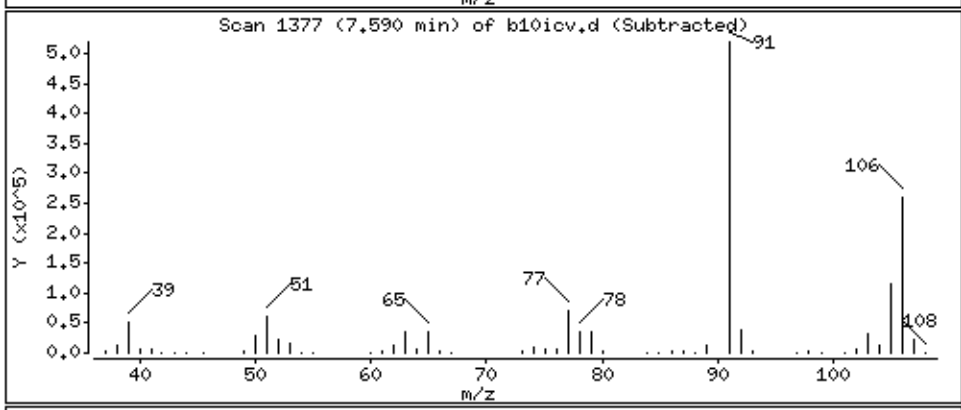
Column phase: DB-624

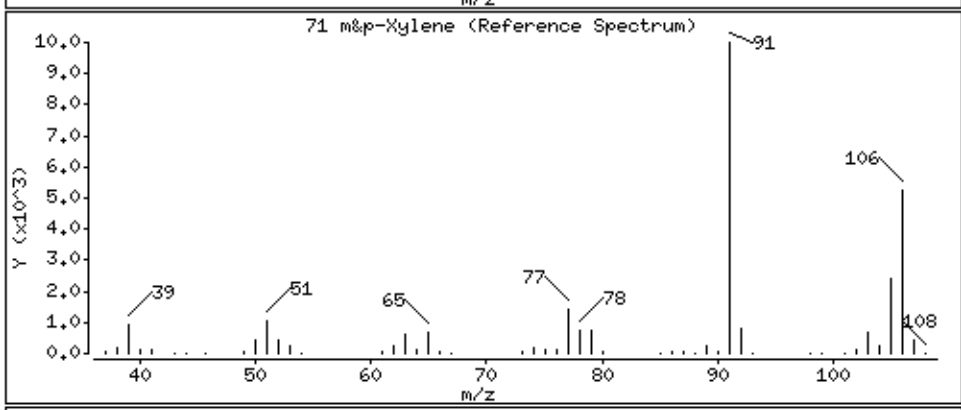
Column diameter: 0.18

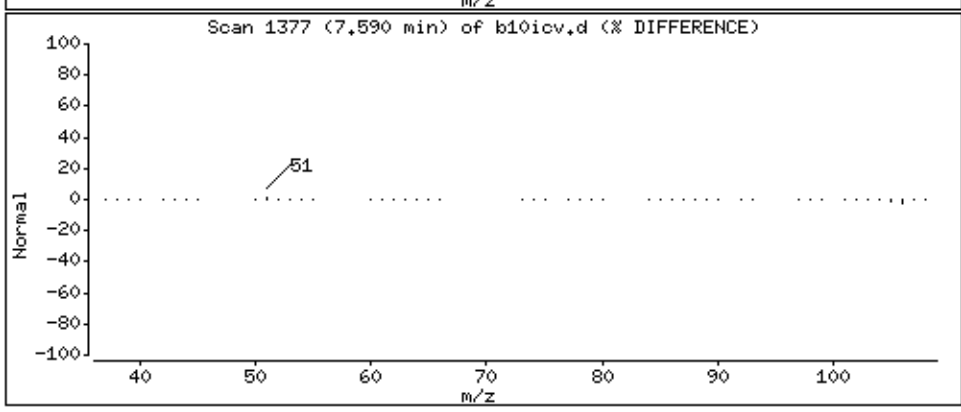
71 m&p-Xylene

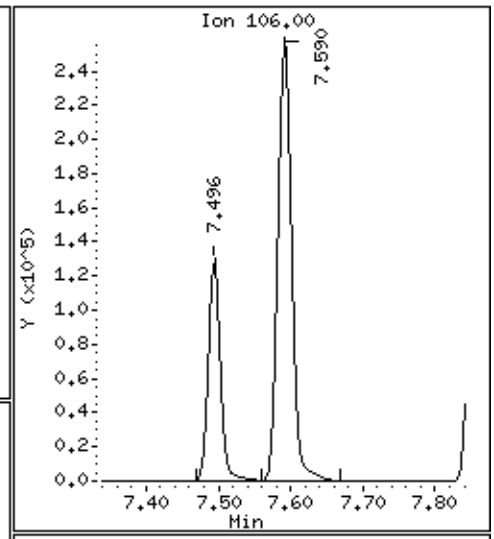
Concentration: 106 ppb

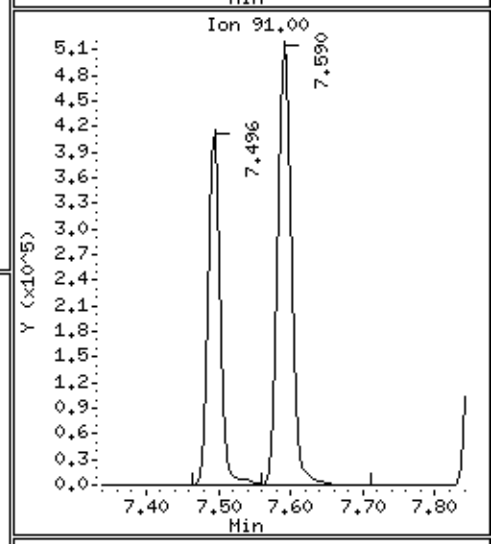


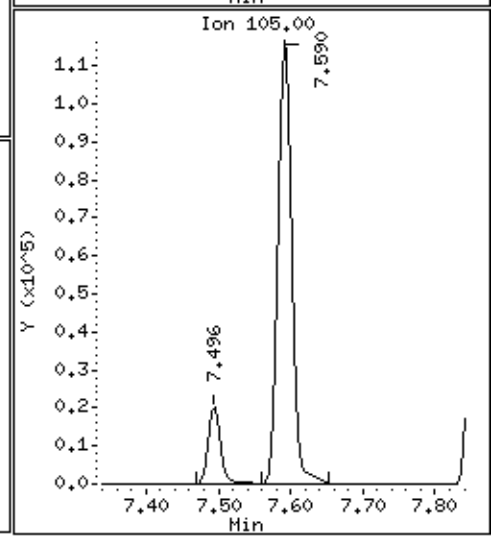












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

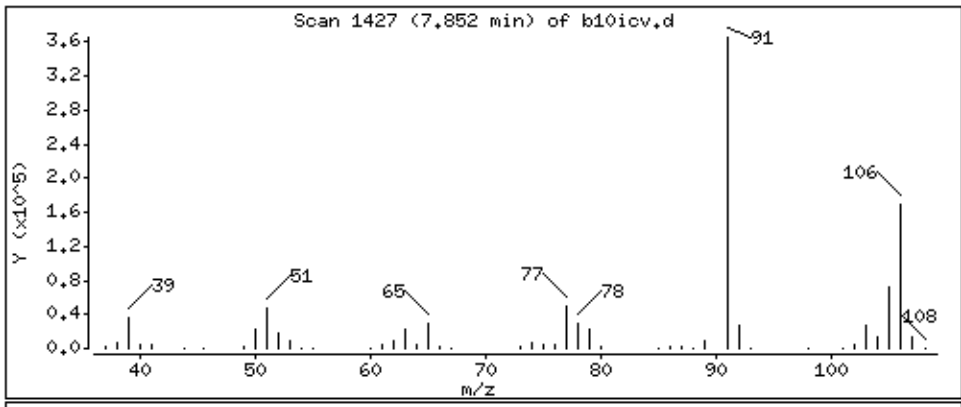
Operator: grm

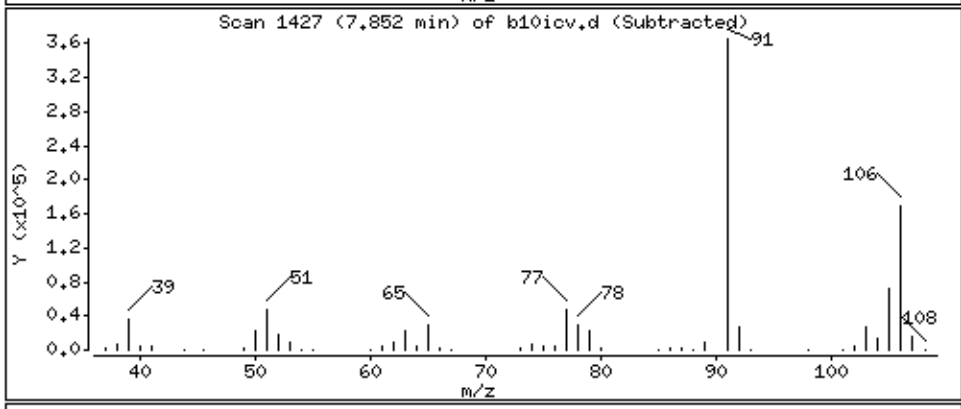
Column phase: DB-624

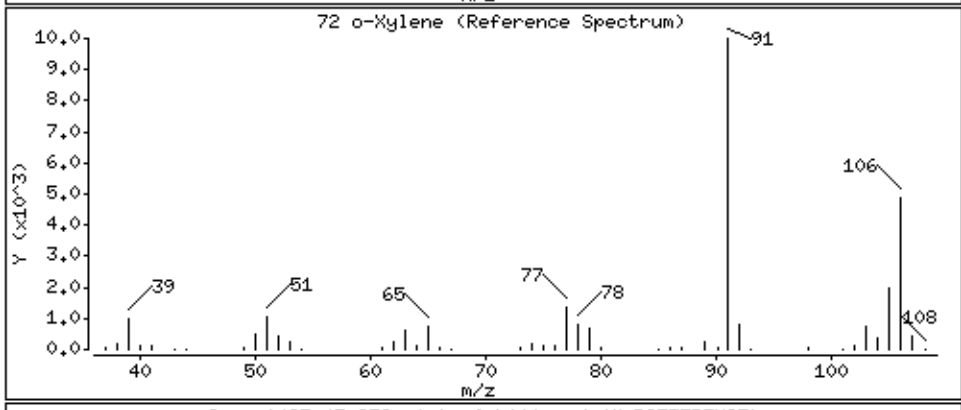
Column diameter: 0.18

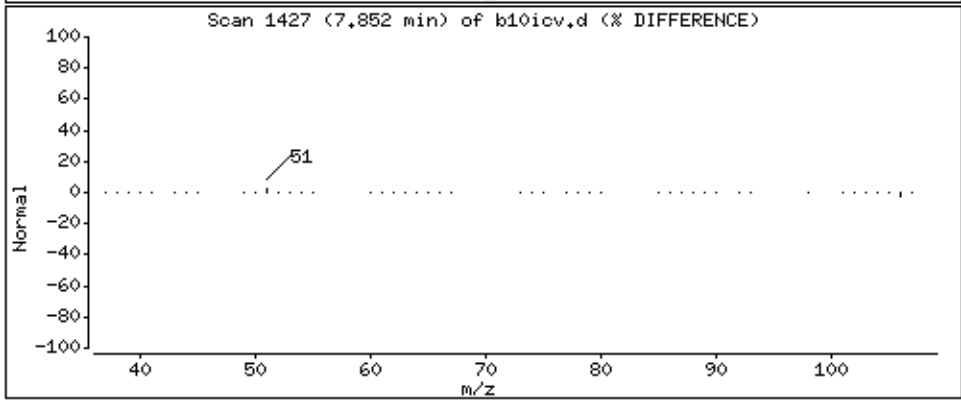
72 o-Xylene

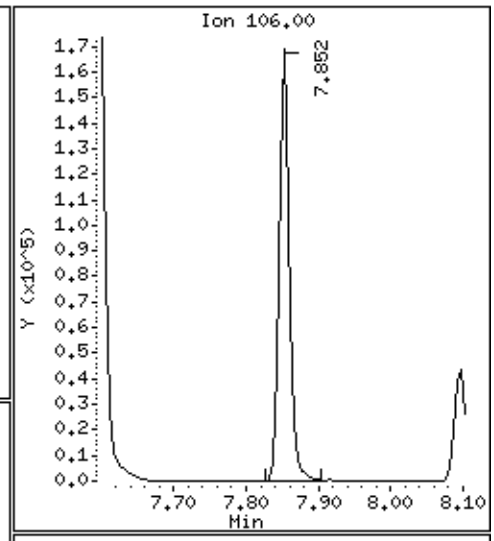
Concentration: 53.2 ppb

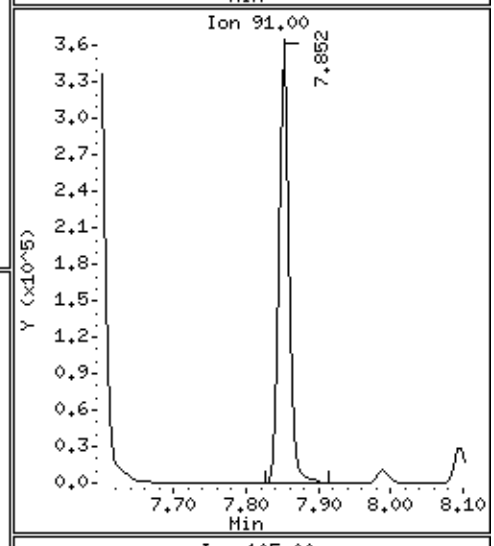


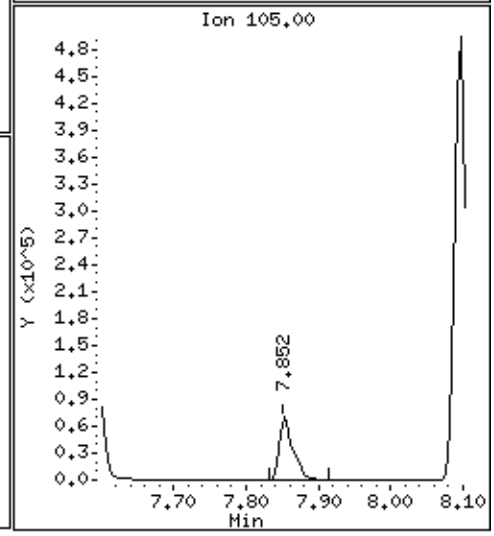












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

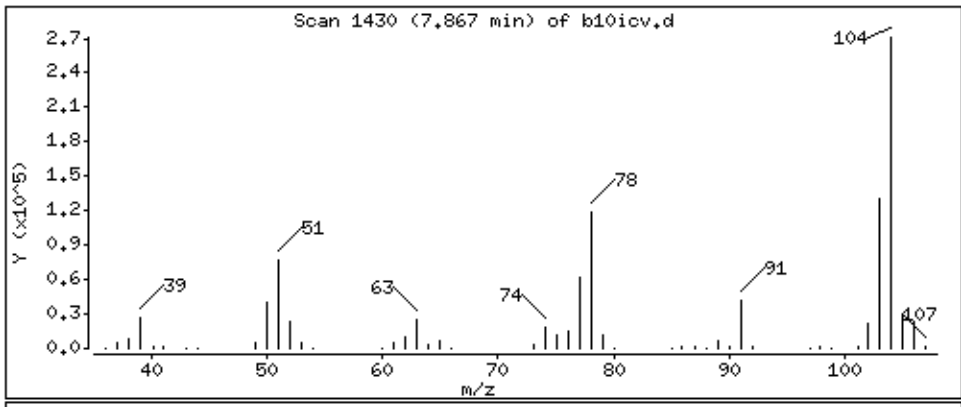
Operator: grm

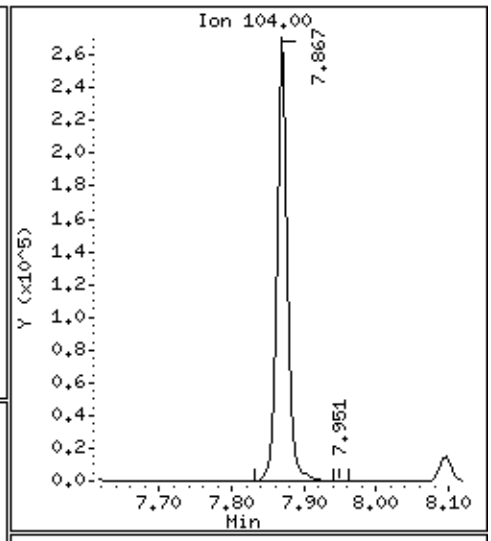
Column phase: DB-624

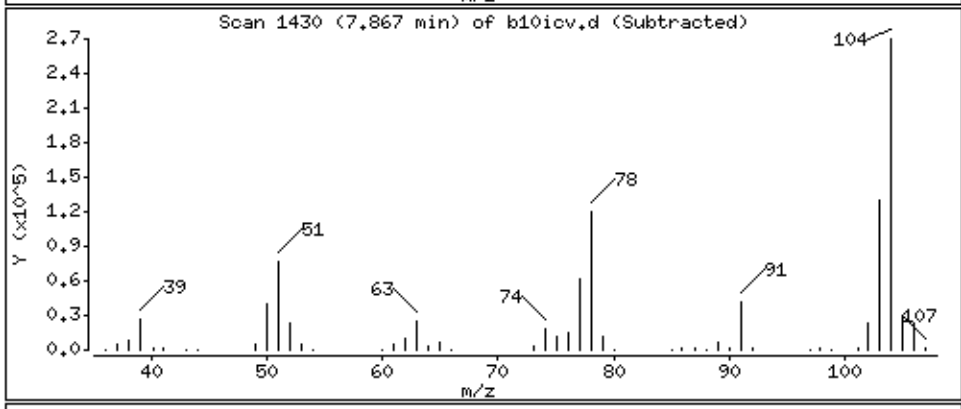
Column diameter: 0.18

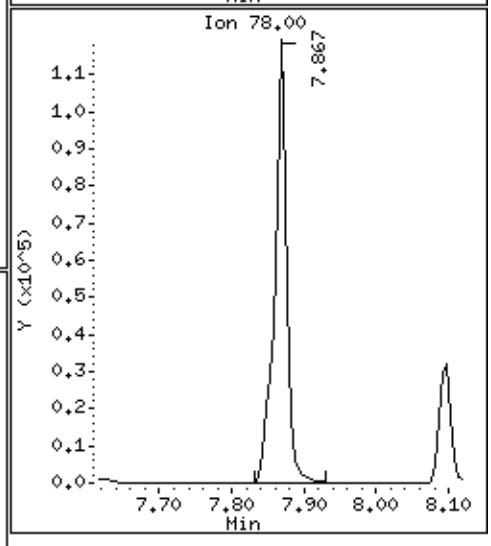
73 Styrene

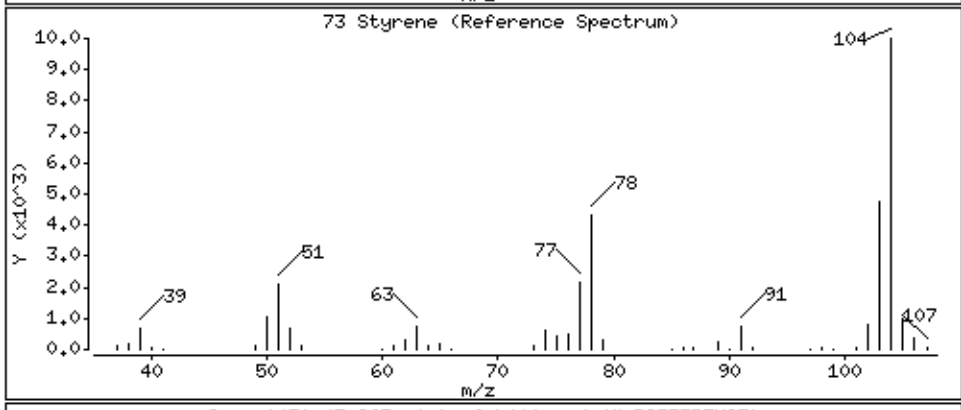
Concentration: 52.6 ppb

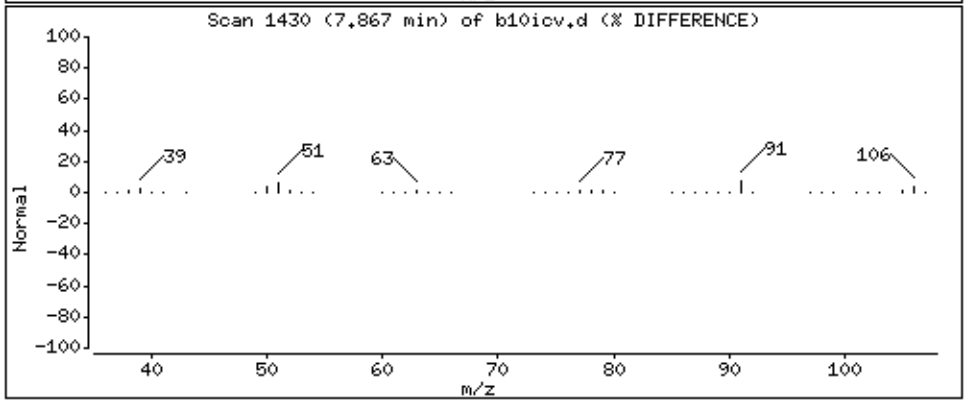












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 75

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

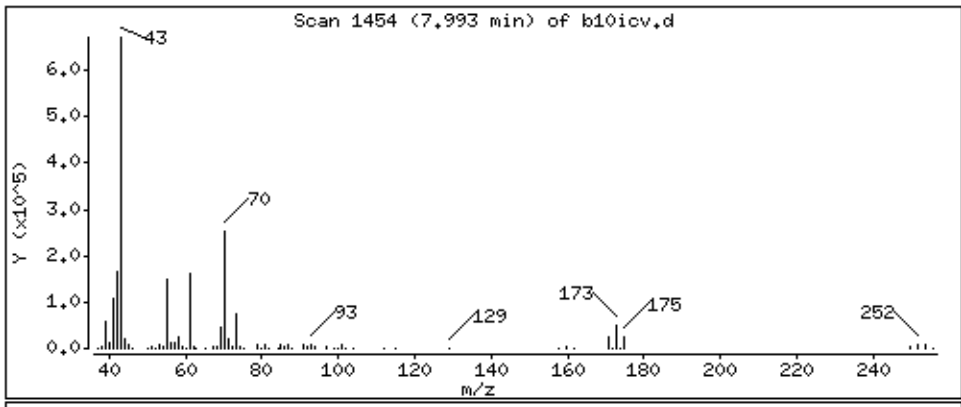
Purge Volume: 5.0

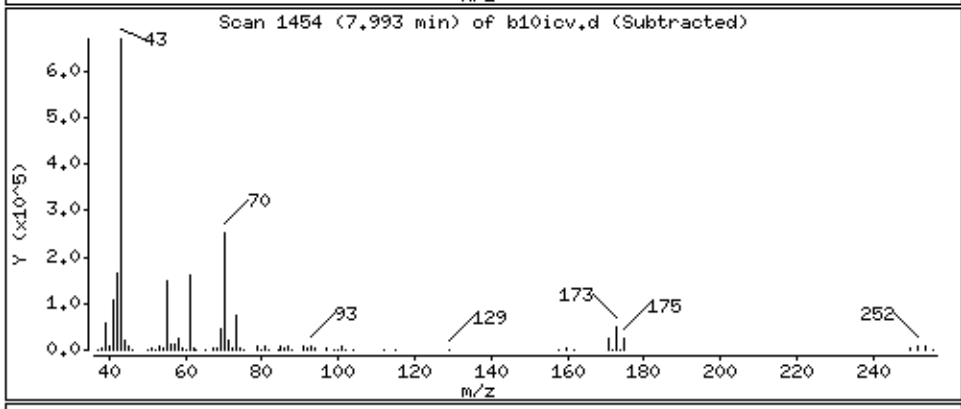
Operator: grm

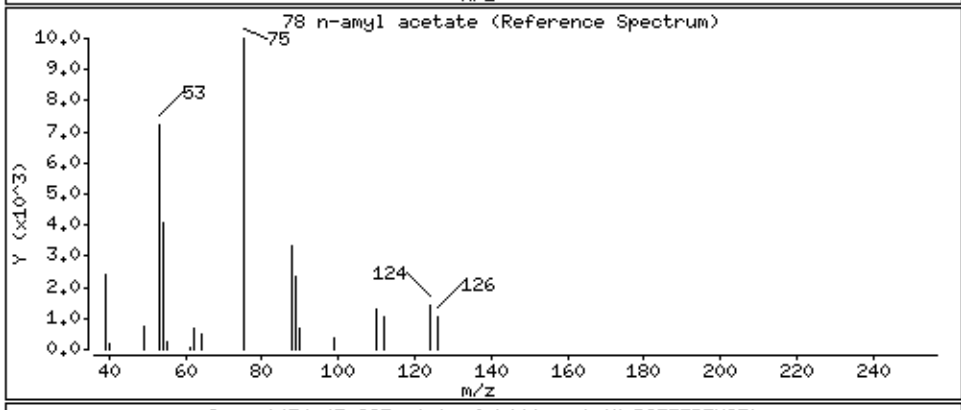
Column phase: DB-624

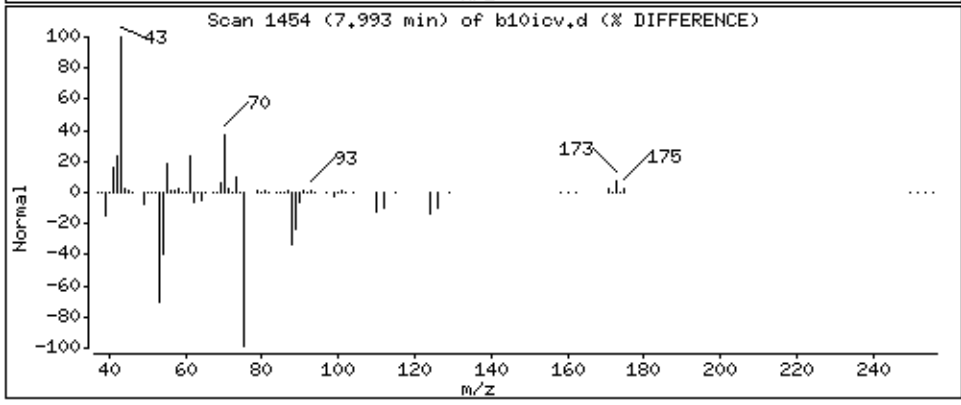
Column diameter: 0.18

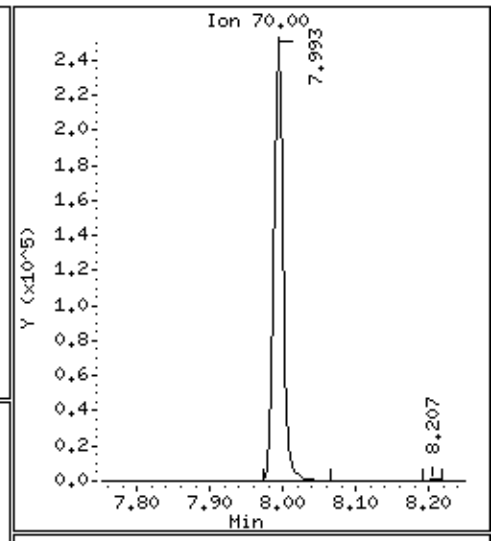
78 n-amyl acetate

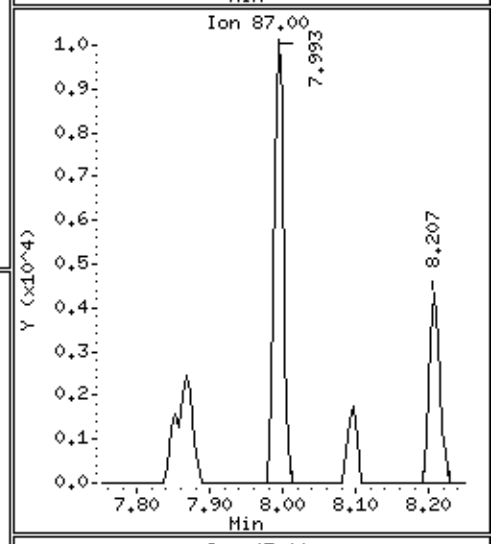


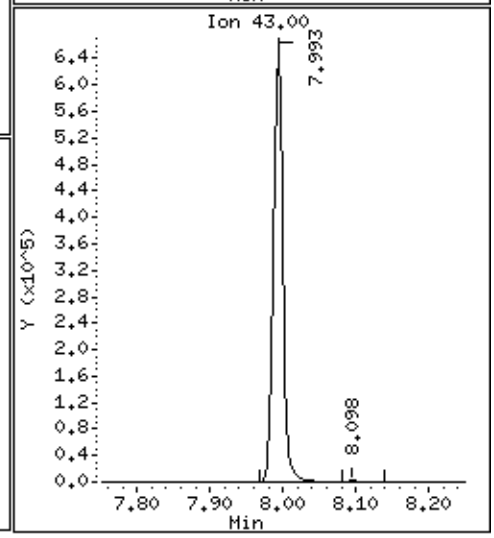












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

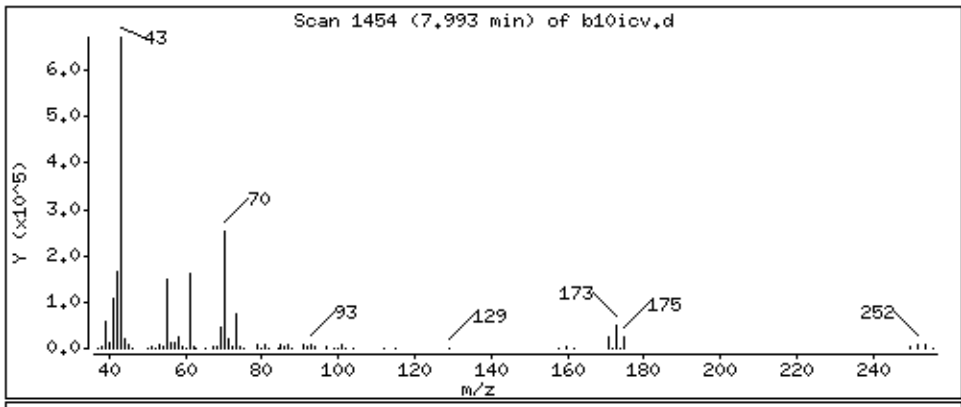
Operator: grm

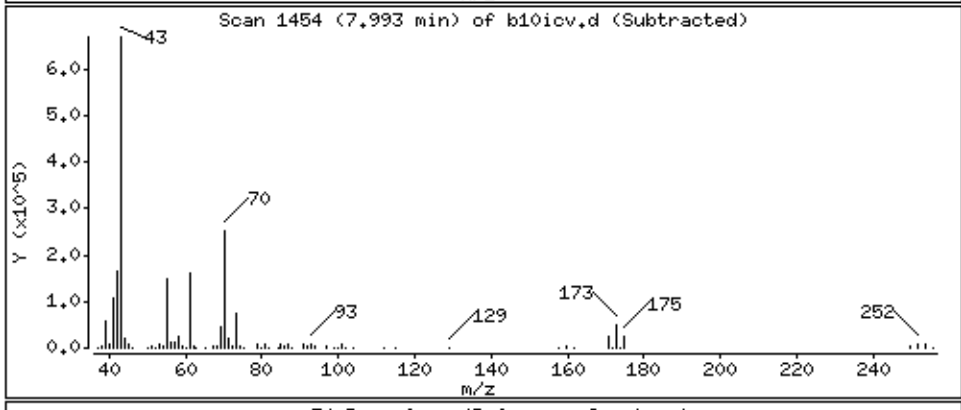
Column phase: DB-624

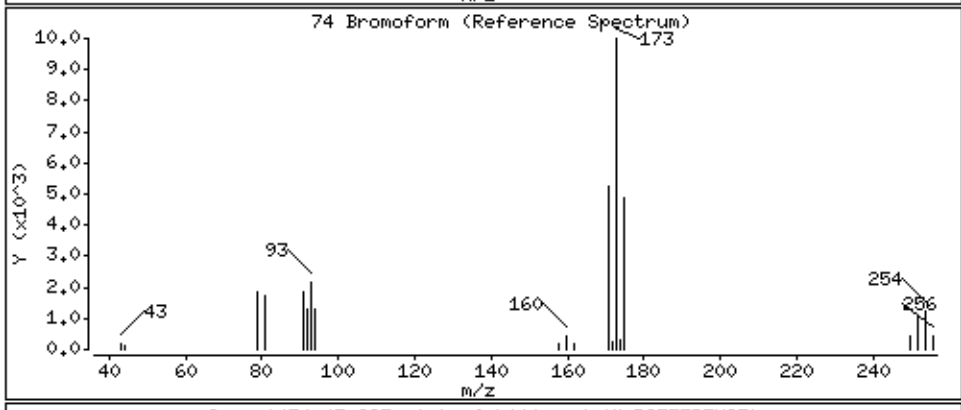
Column diameter: 0.18

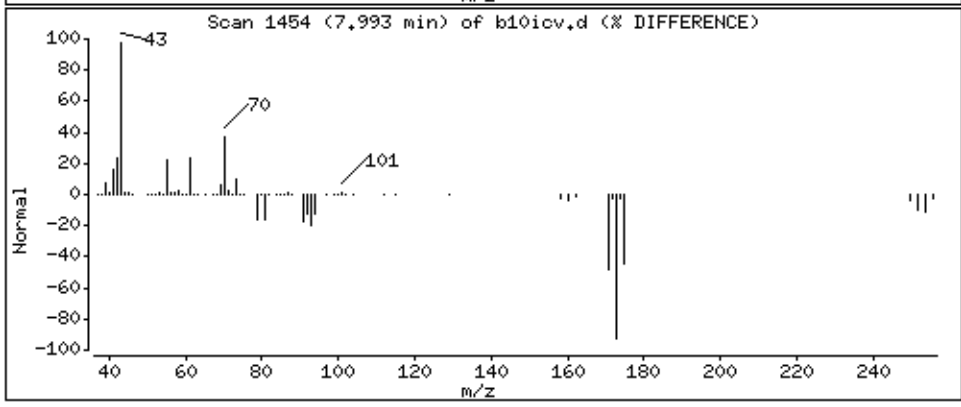
74 Bromoform

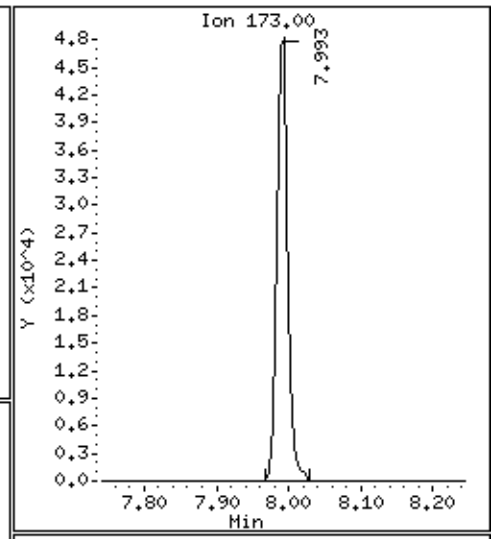
Concentration: 50.9 ppb

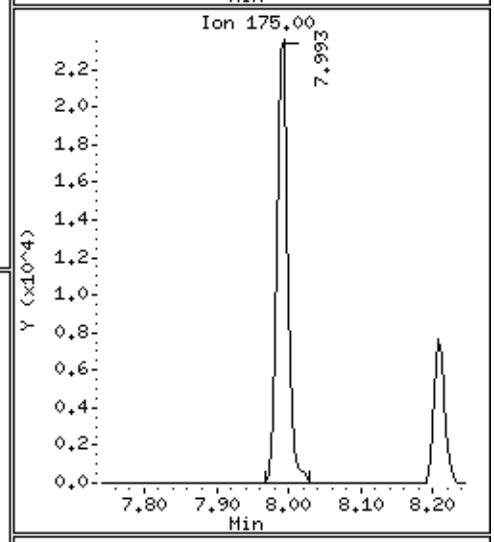


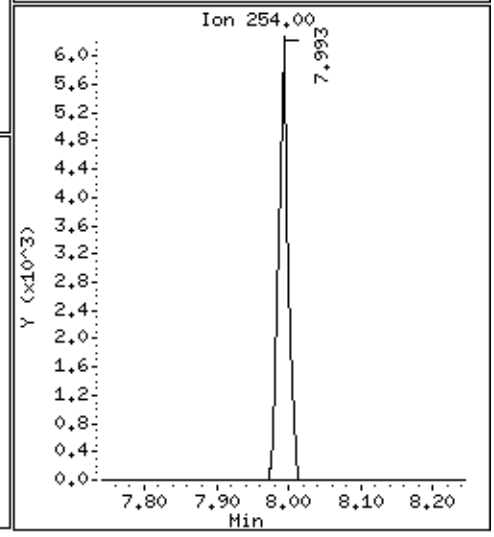












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

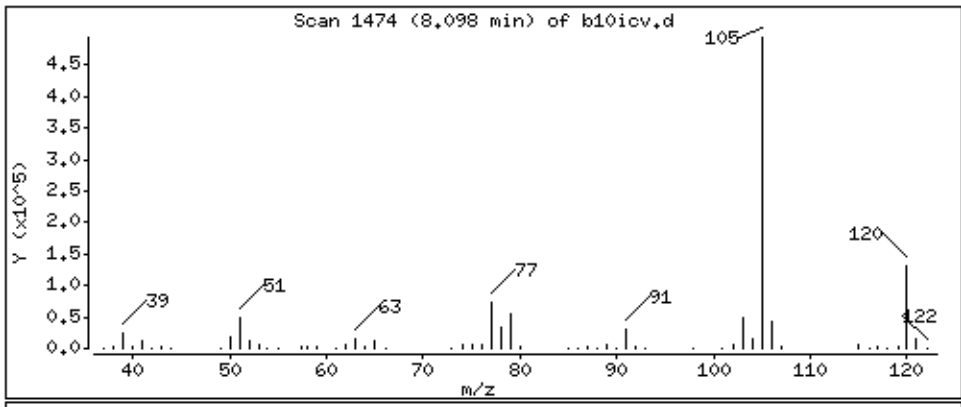
Operator: grm

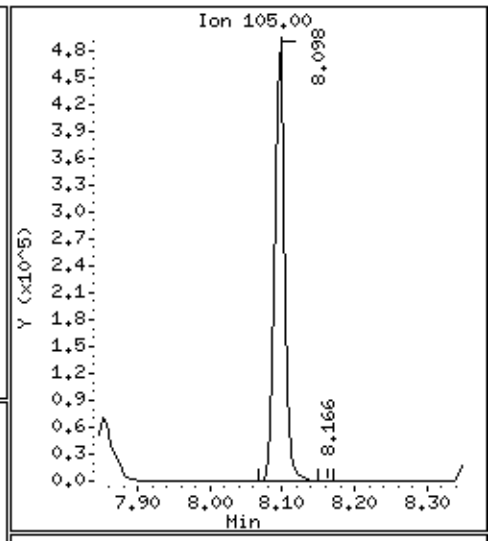
Column phase: DB-624

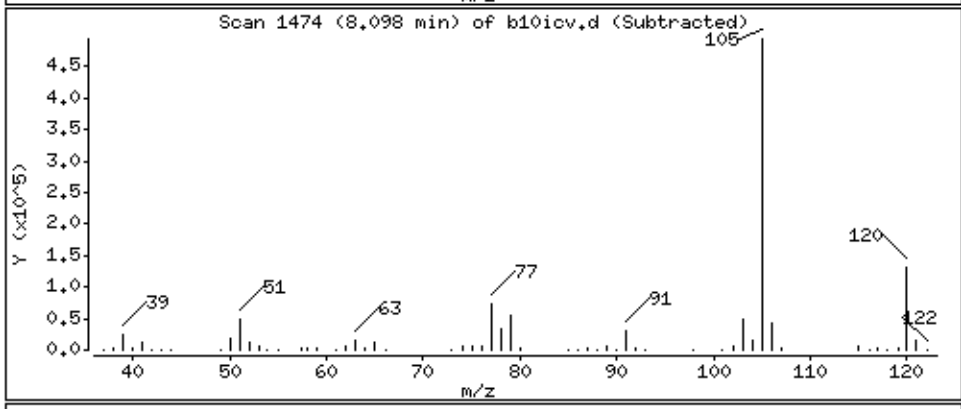
Column diameter: 0.18

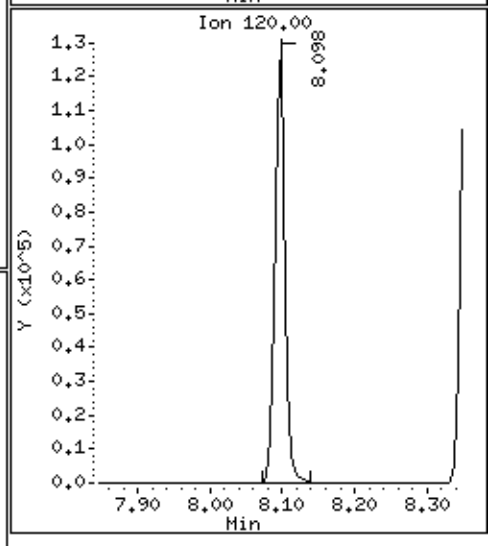
75 Isopropylbenzene

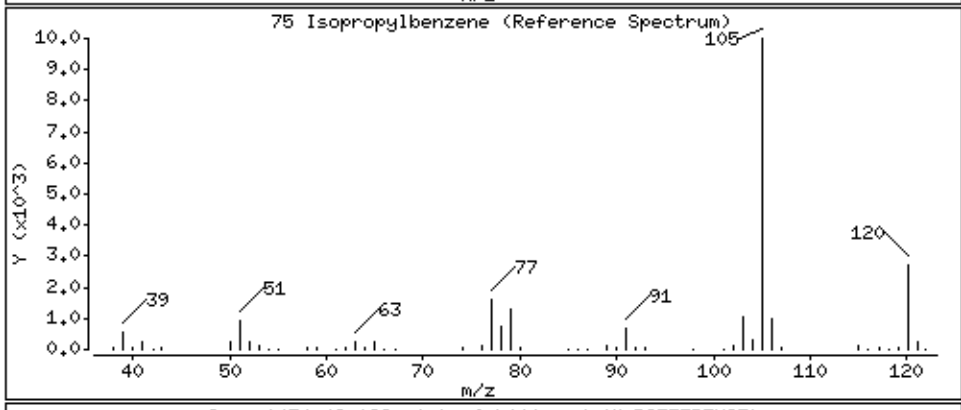
Concentration: 53.1 ppb

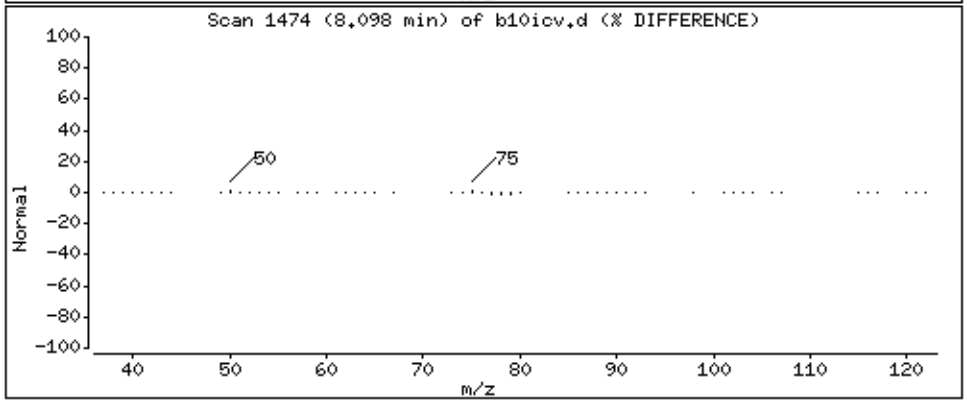












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

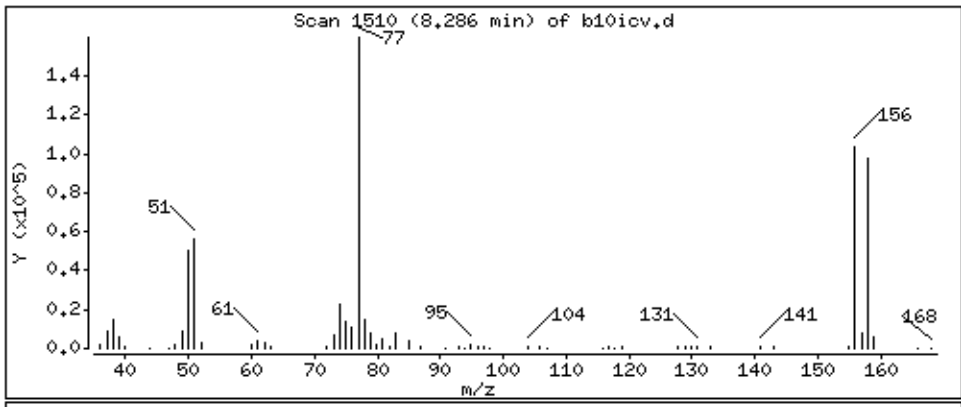
Operator: grm

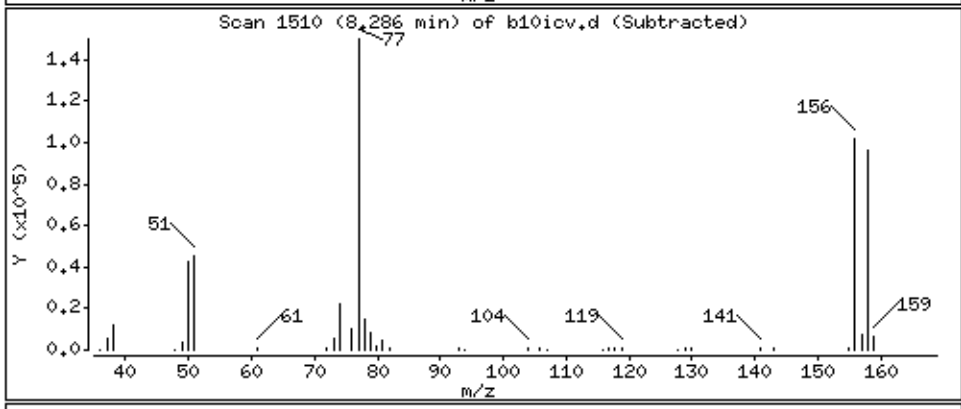
Column phase: DB-624

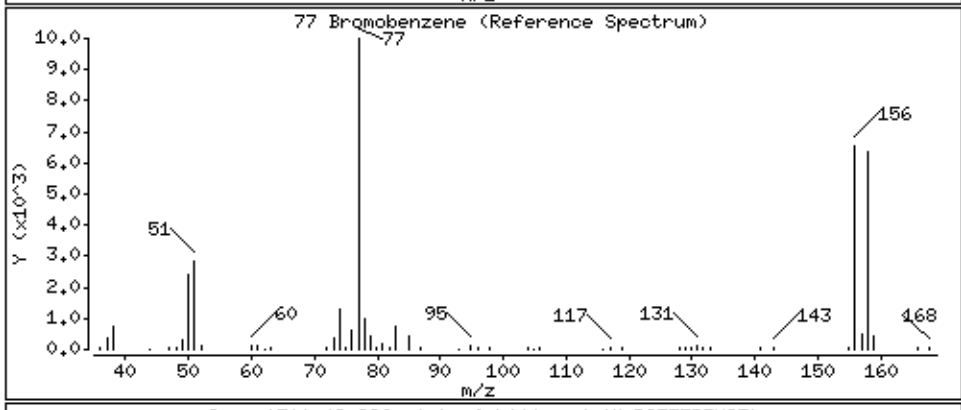
Column diameter: 0.18

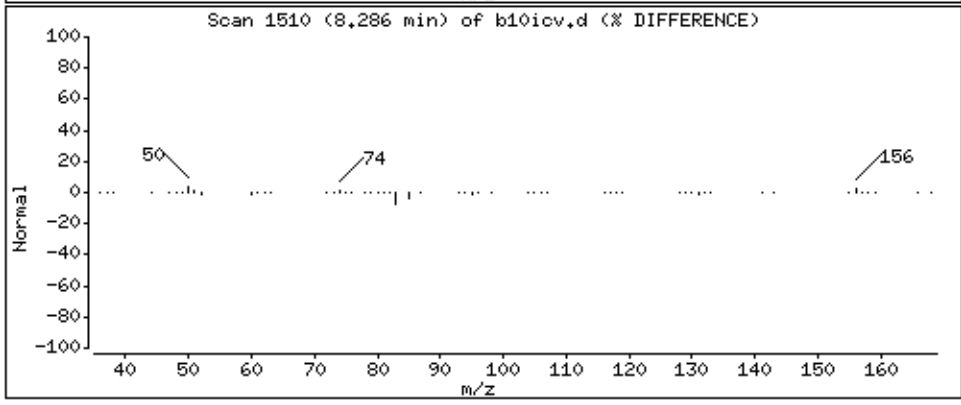
77 Bromobenzene

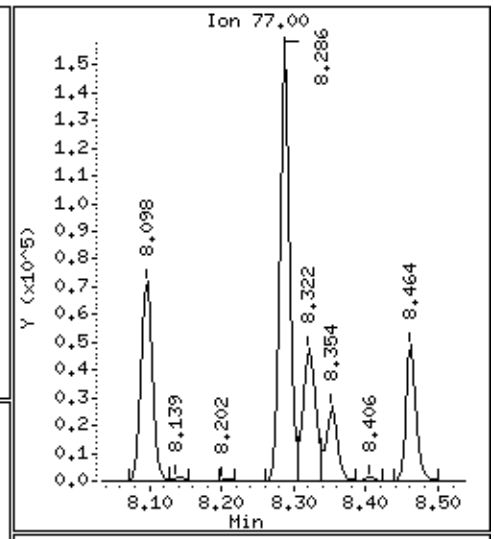
Concentration: 50.9 ppb

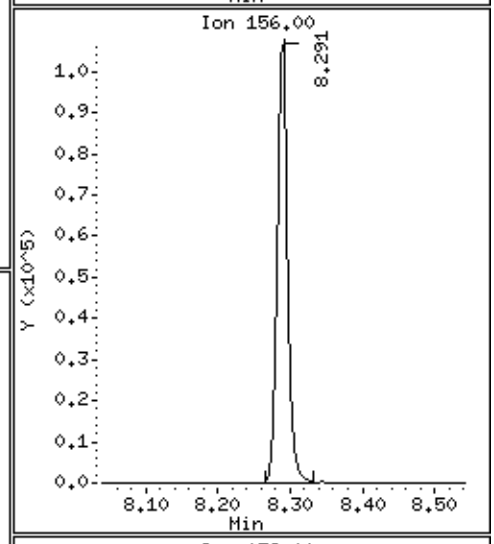


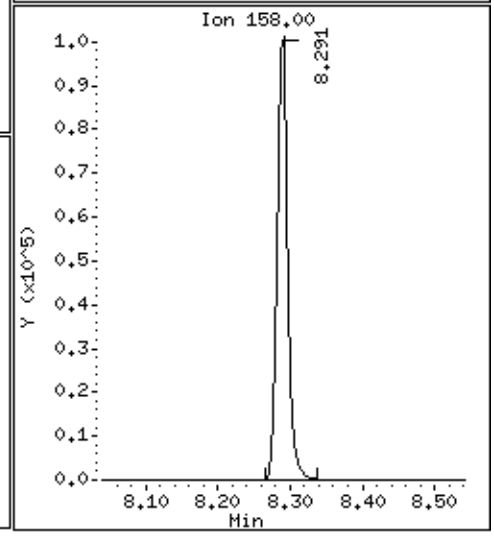












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

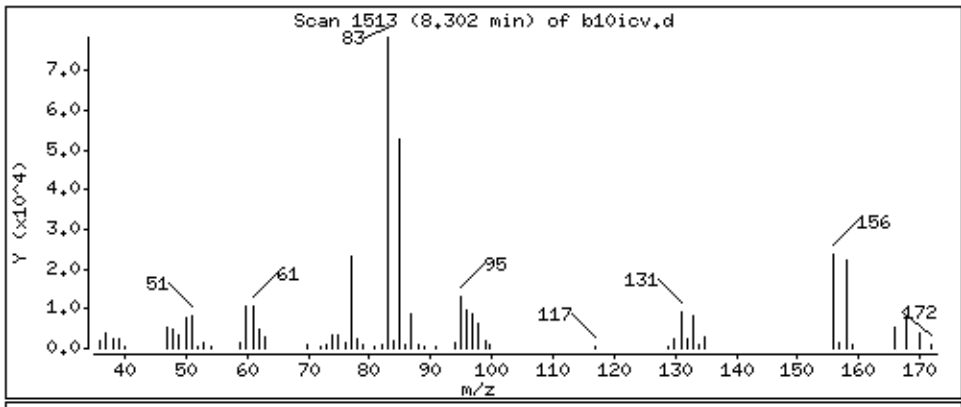
Operator: grm

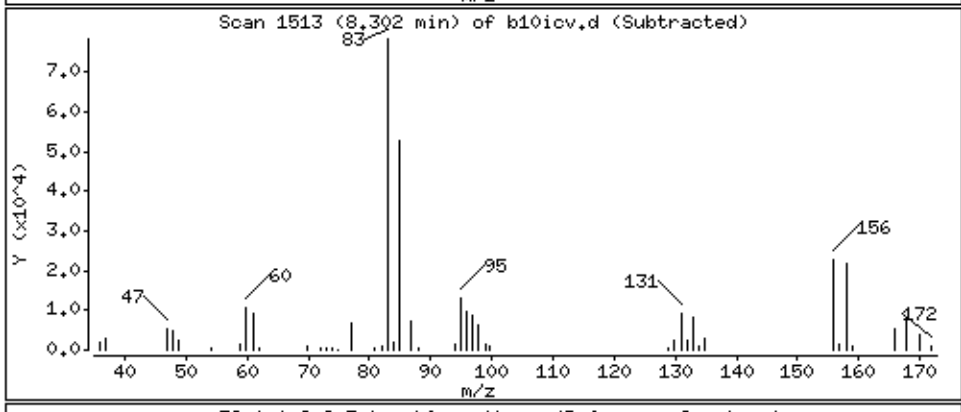
Column phase: DB-624

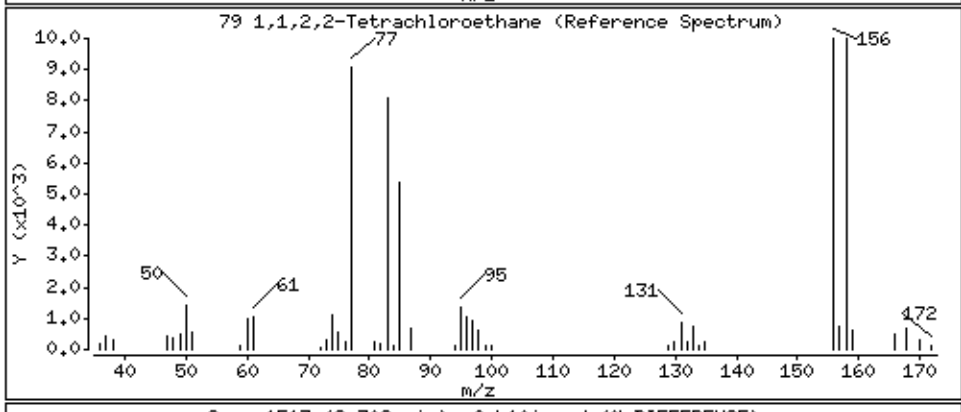
Column diameter: 0.18

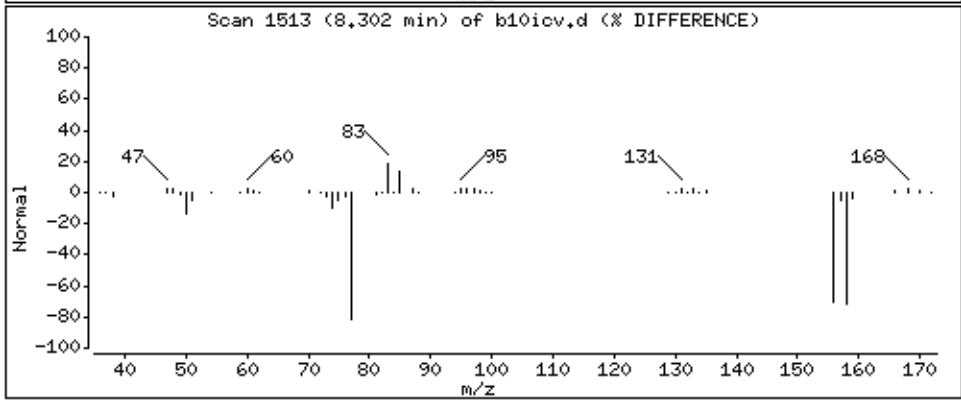
79 1,1,2,2-Tetrachloroethane

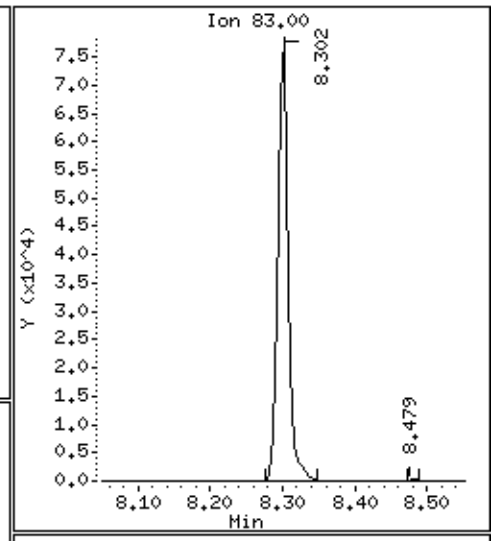
Concentration: 52.7 ppb

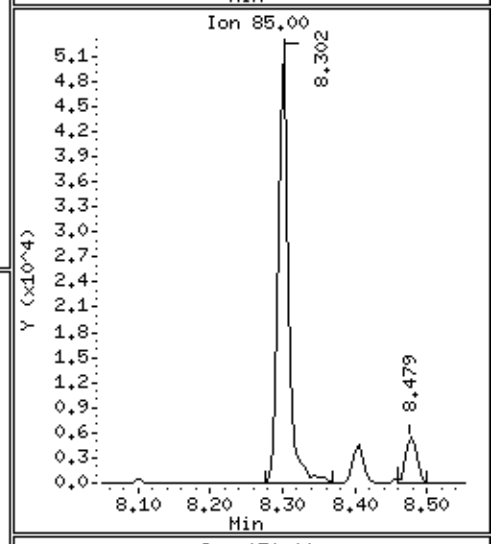


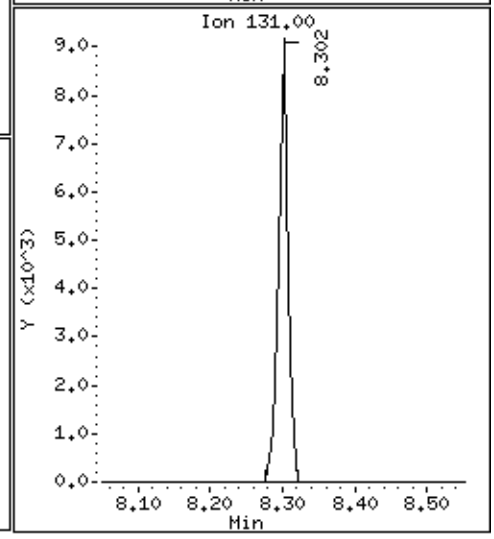












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

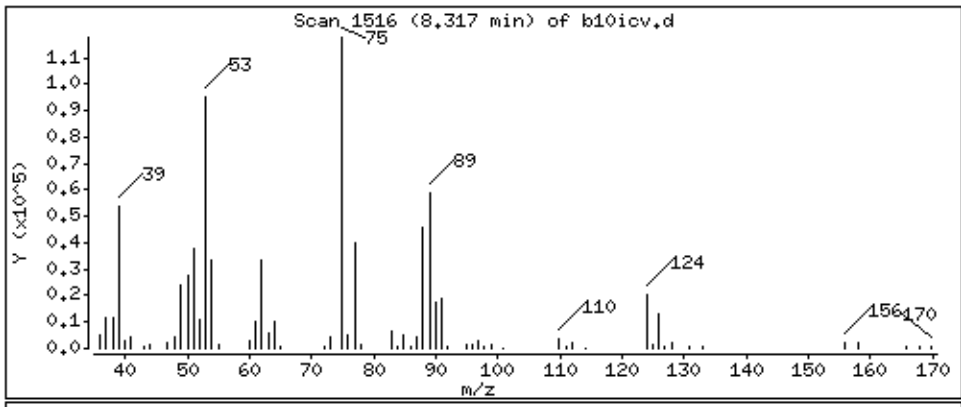
Operator: grm

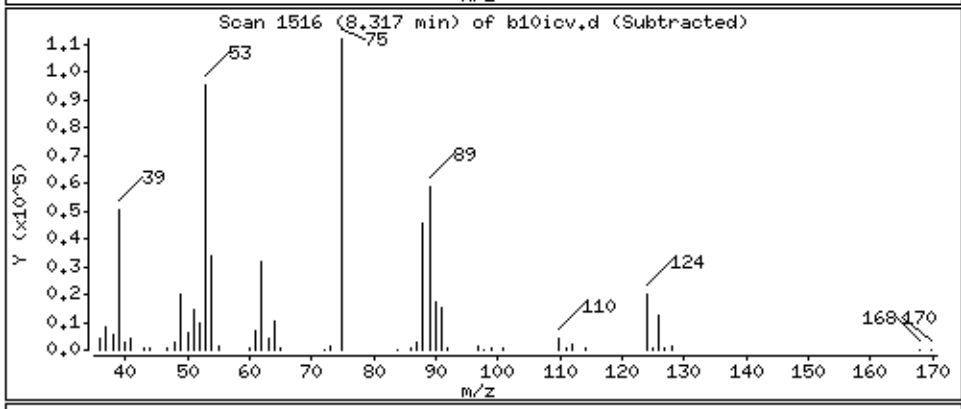
Column phase: DB-624

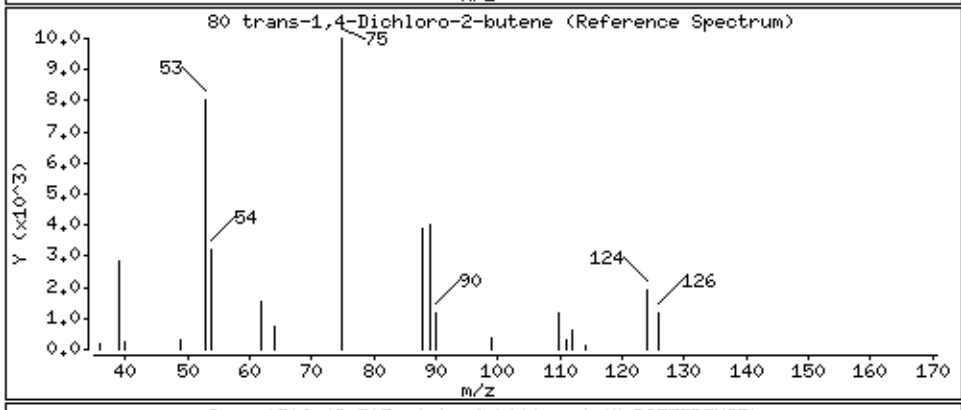
Column diameter: 0.18

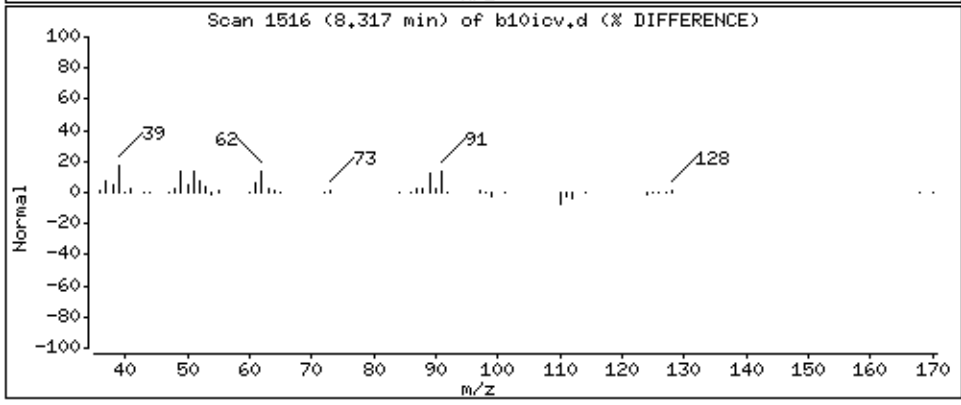
80 trans-1,4-Dichloro-2-butene

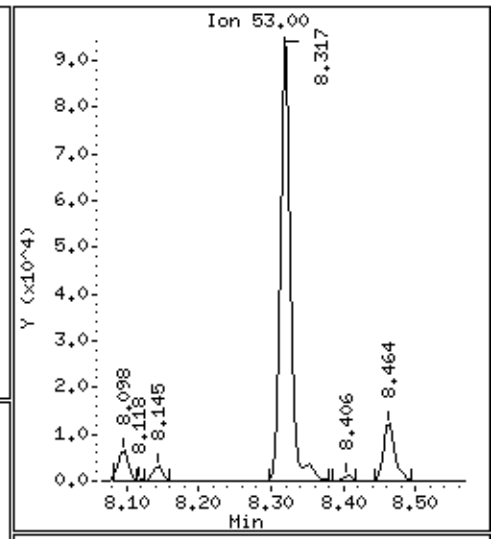
Concentration: 215 ppb

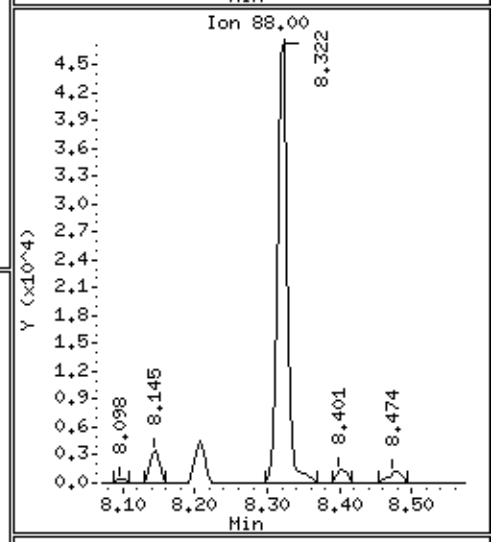


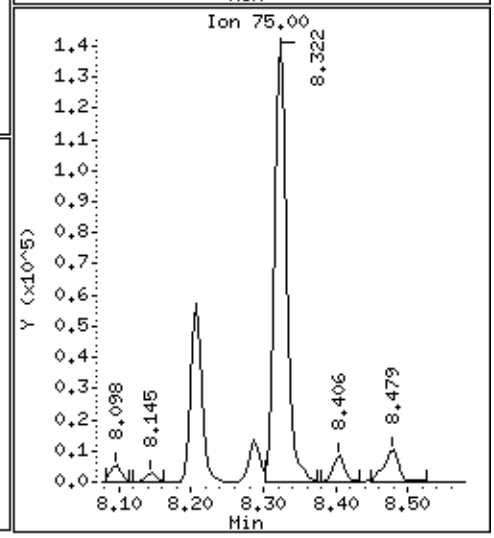












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

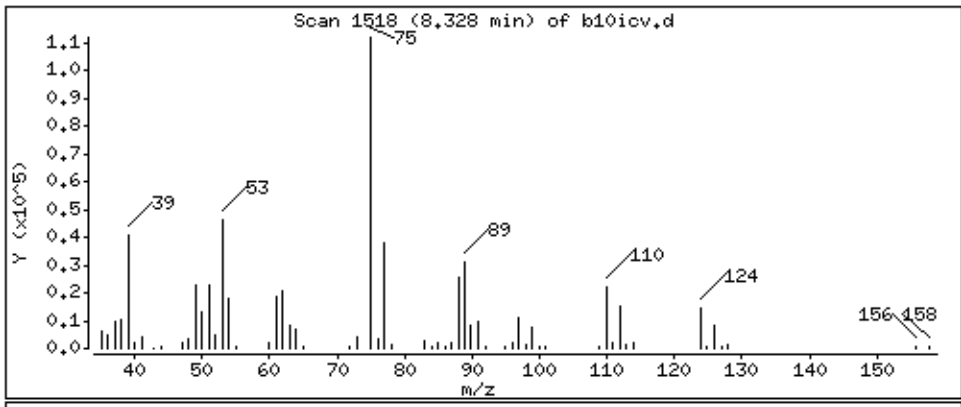
Operator: grm

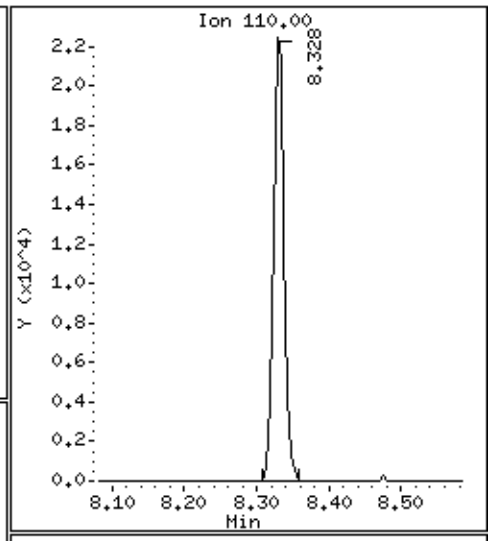
Column phase: DB-624

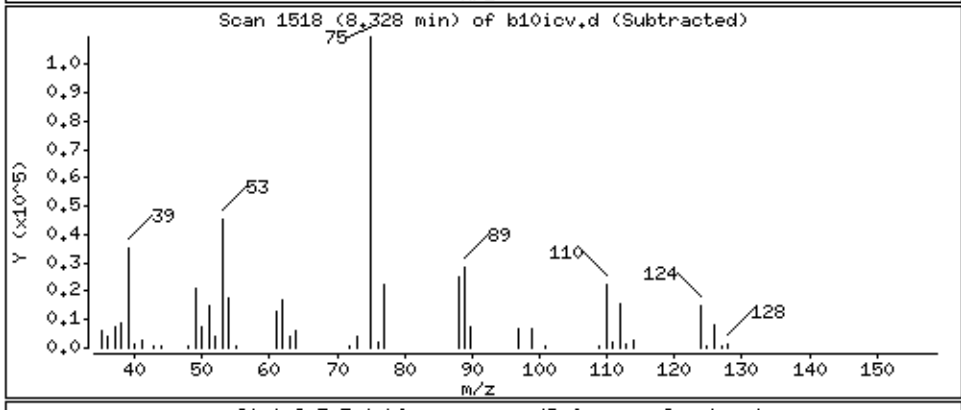
Column diameter: 0.18

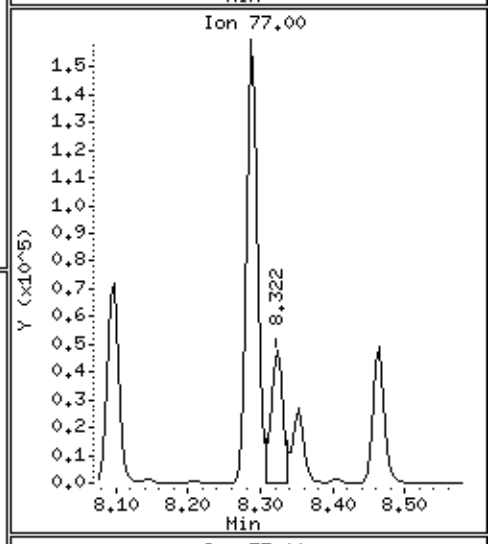
81 1,2,3-Trichloropropane

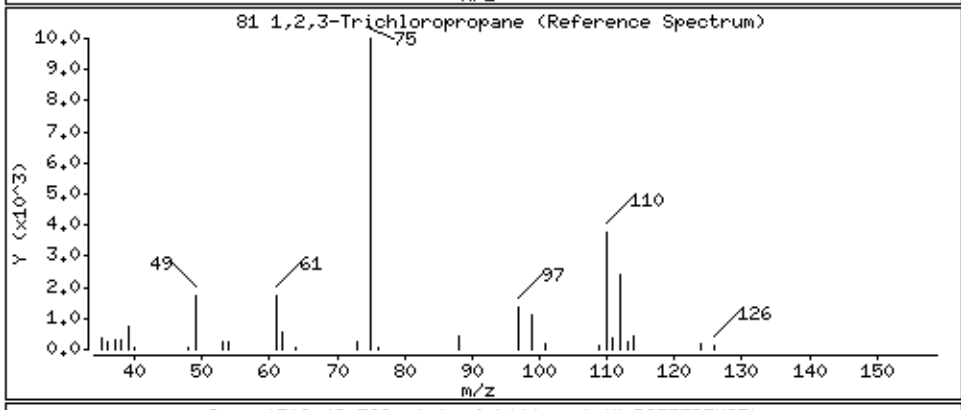
Concentration: 54.3 ppb

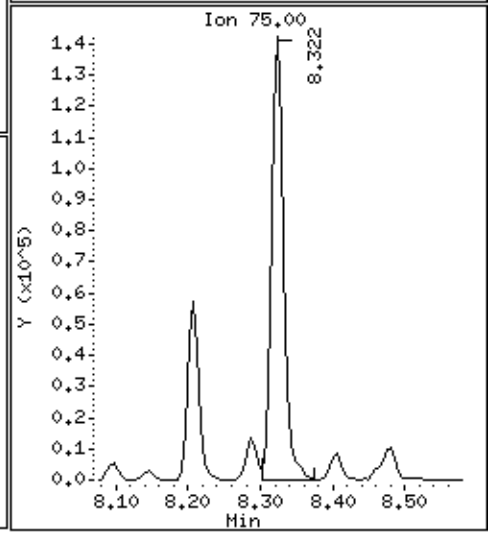


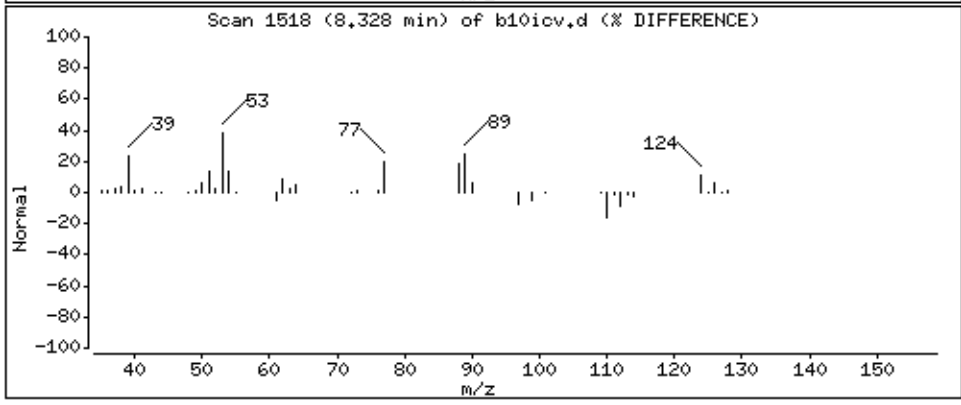












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 82

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

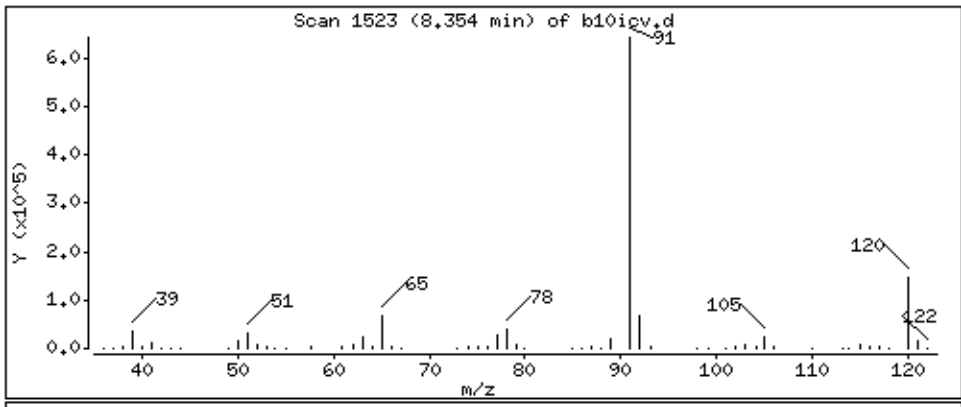
Operator: grm

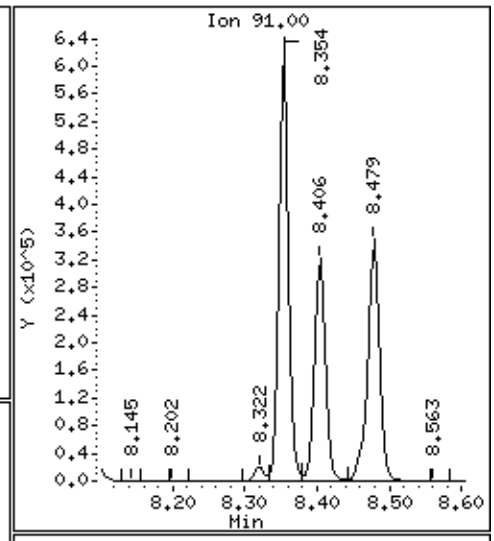
Column phase: DB-624

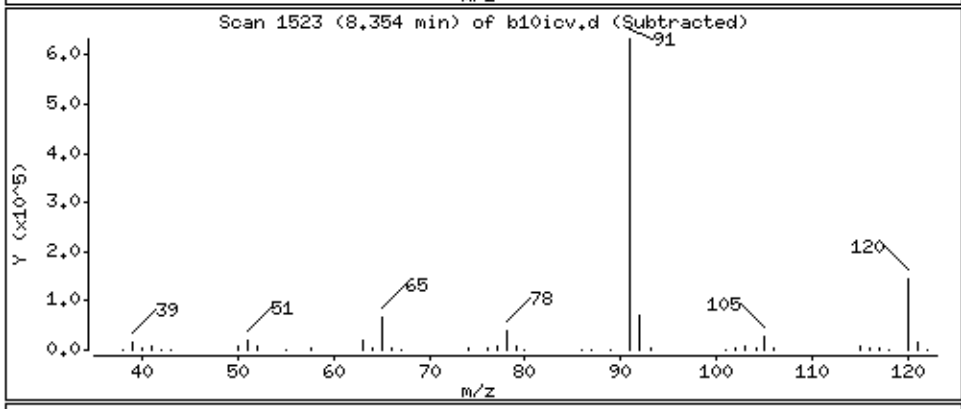
Column diameter: 0.18

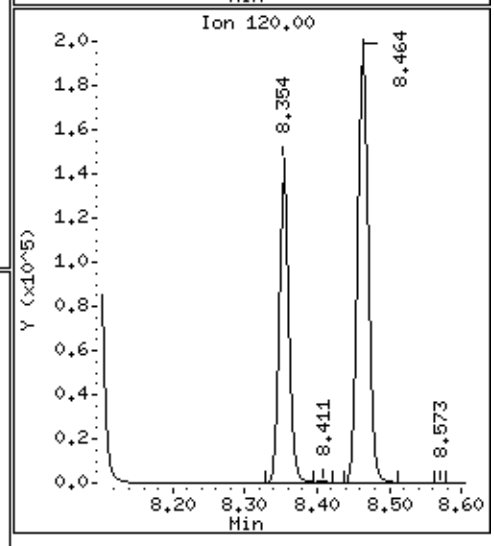
82 n-Propylbenzene

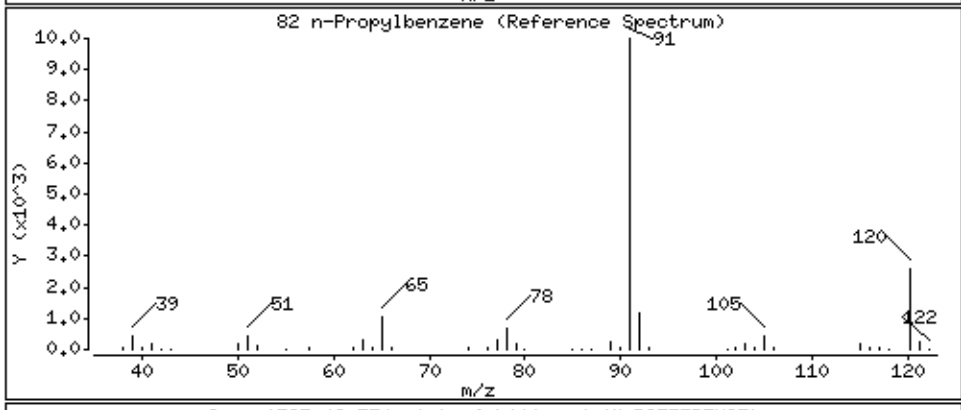
Concentration: 58.1 ppb

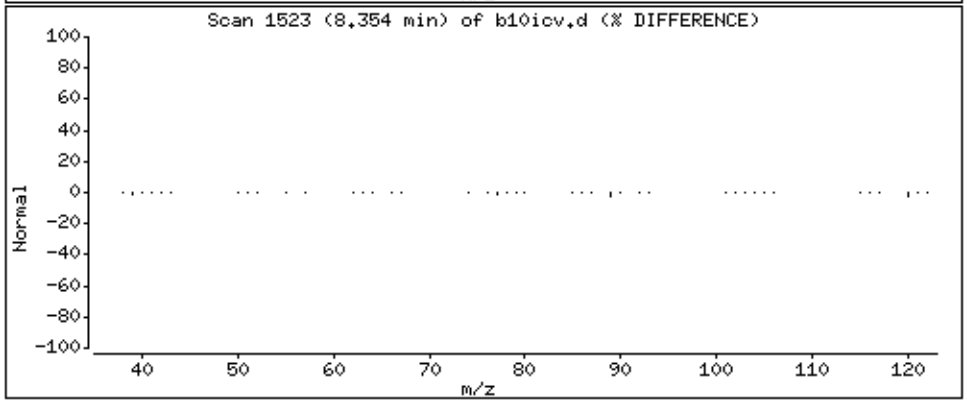












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

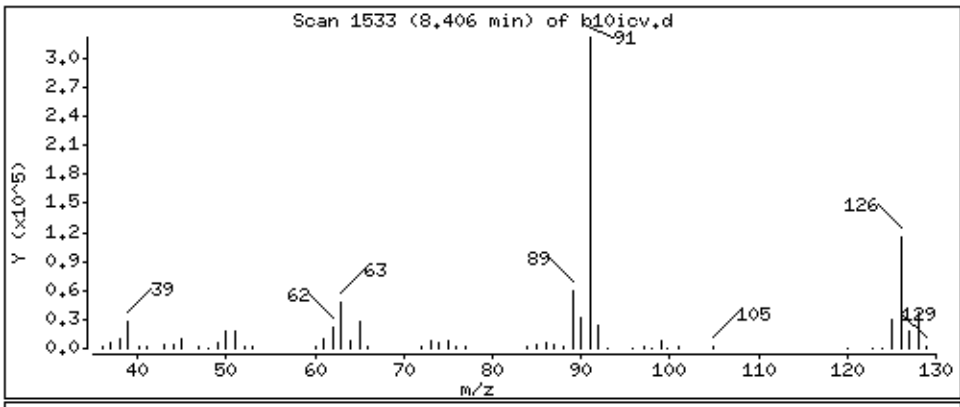
Operator: grm

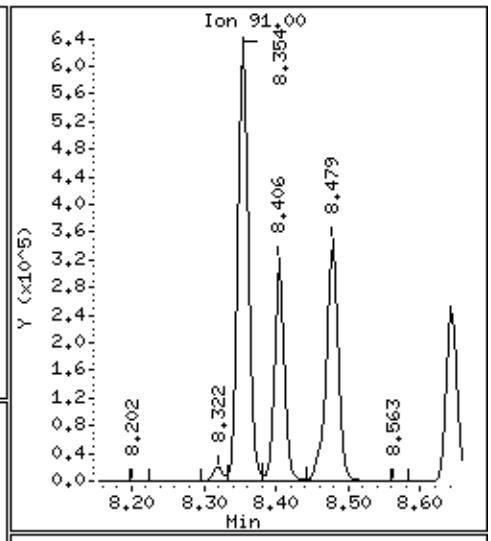
Column phase: DB-624

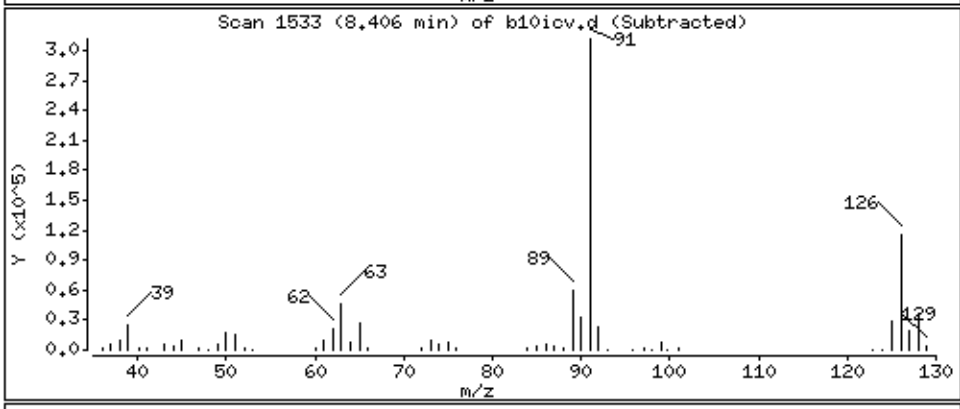
Column diameter: 0.18

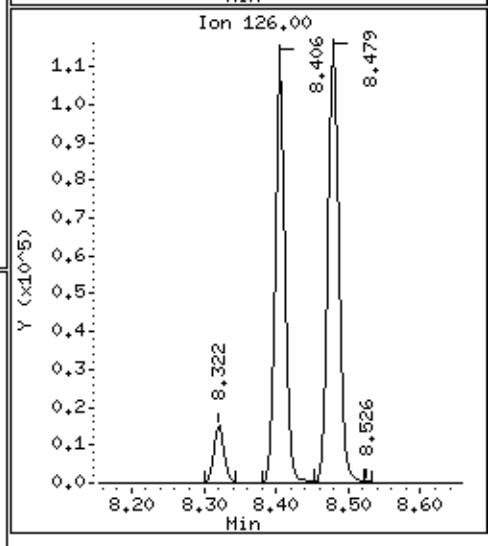
83 2-Chlorotoluene

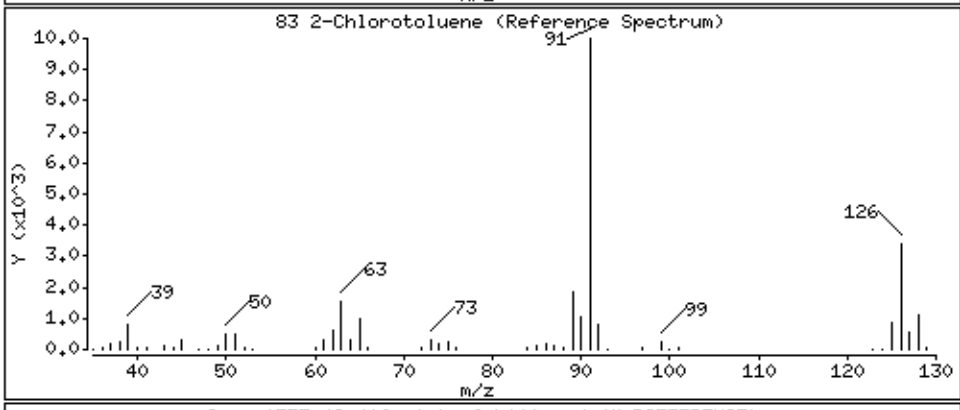
Concentration: 53.8 ppb

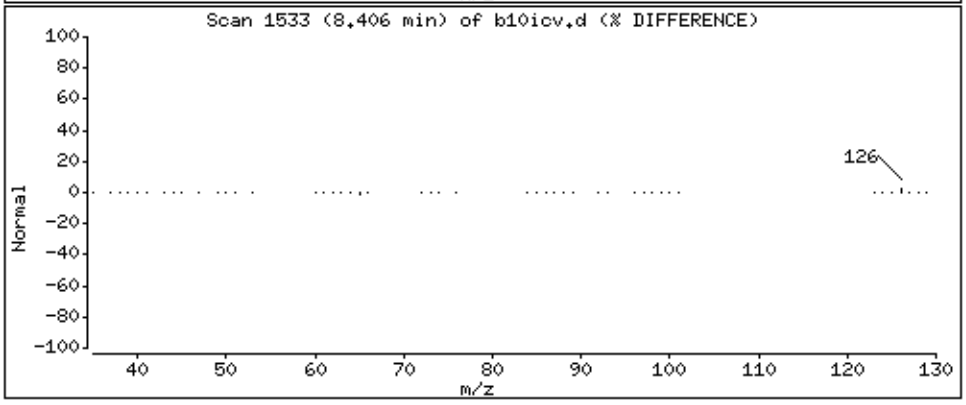












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

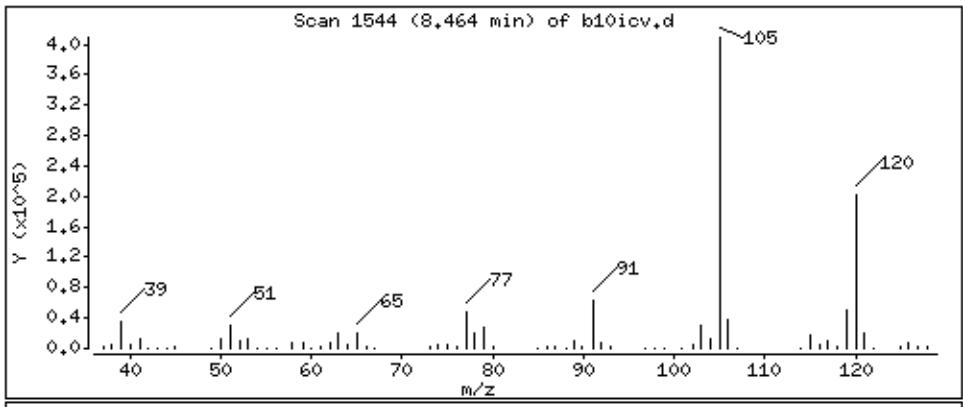
Operator: grm

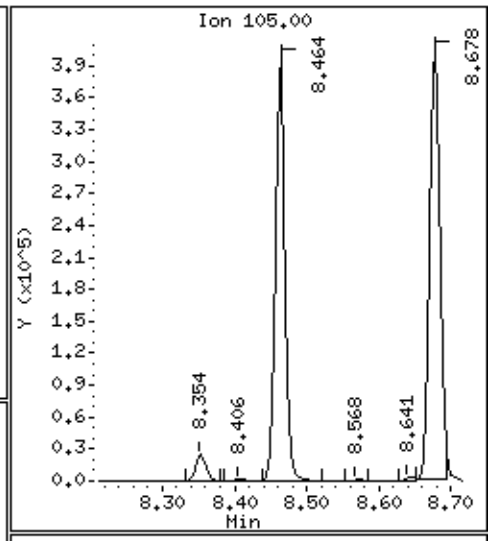
Column phase: DB-624

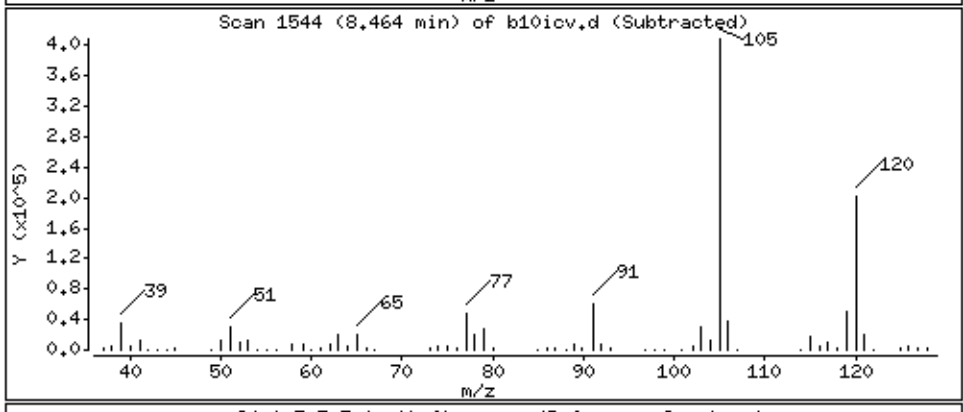
Column diameter: 0.18

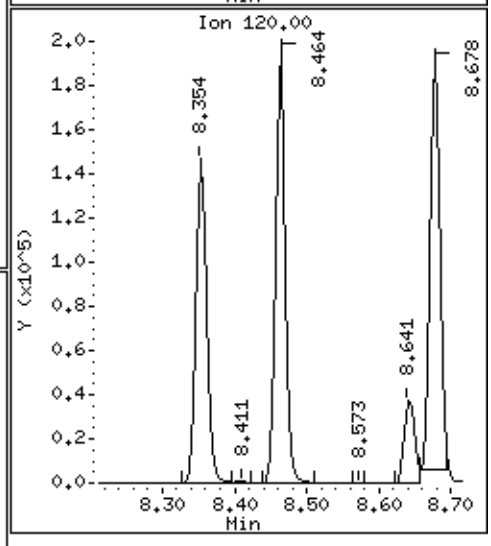
84 1,3,5-Trimethylbenzene

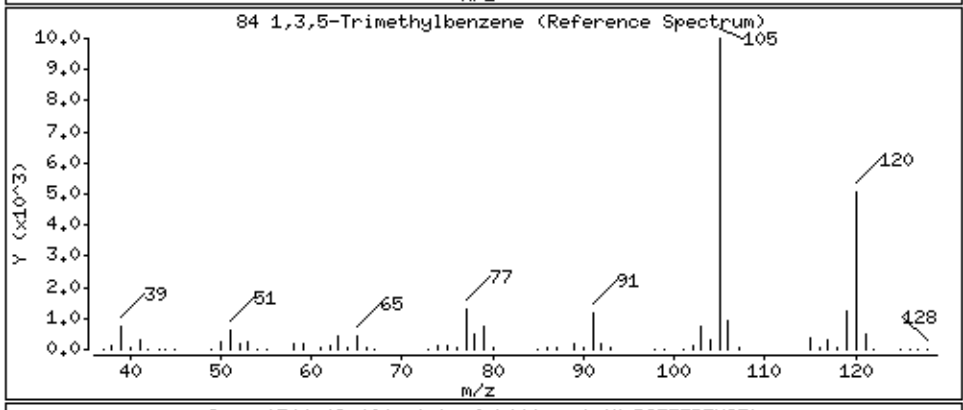
Concentration: 53.6 ppb

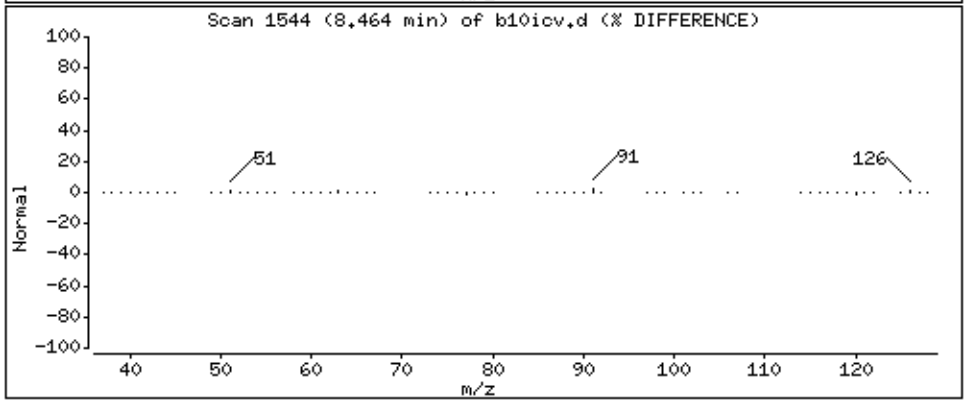












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

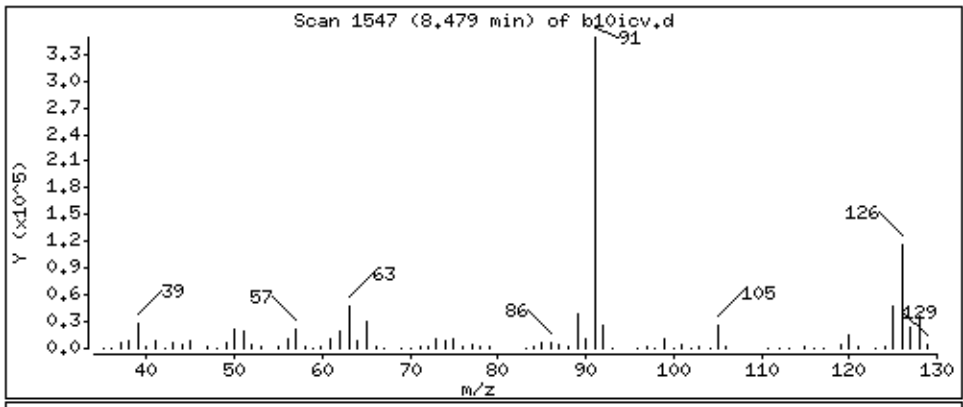
Operator: grm

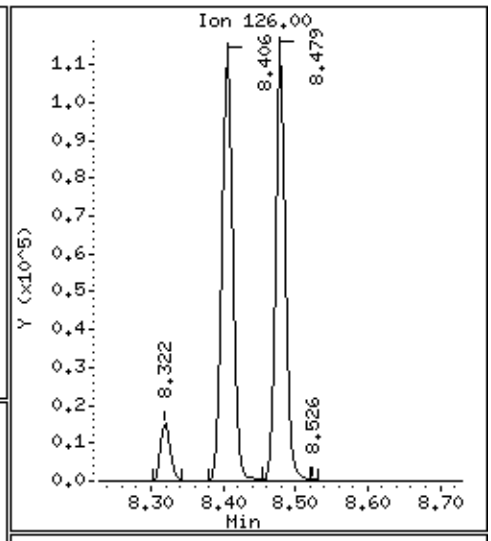
Column phase: DB-624

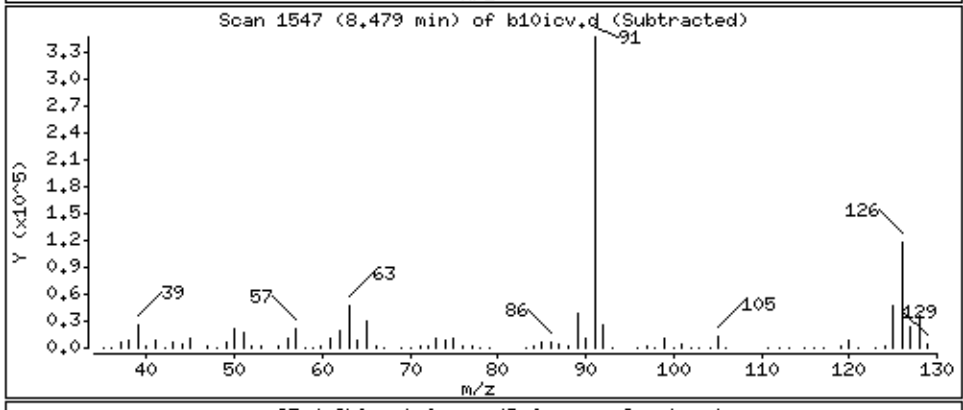
Column diameter: 0.18

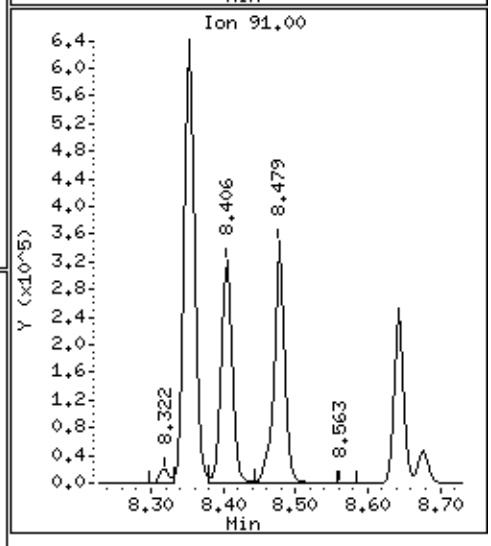
85 4-Chlorotoluene

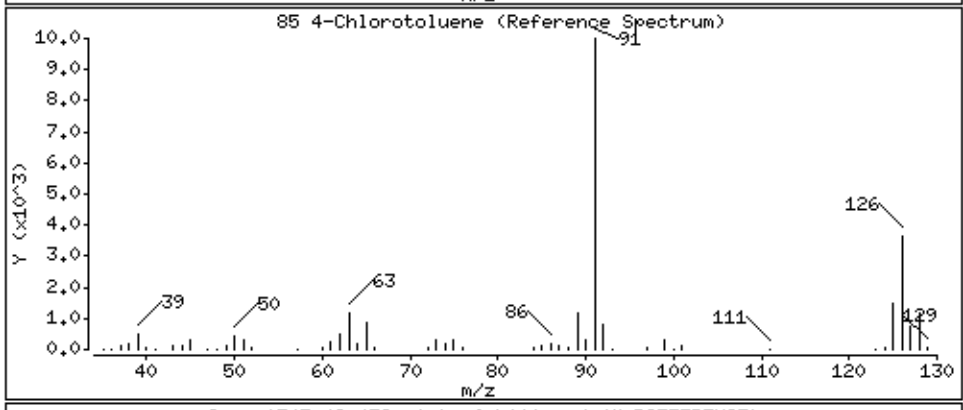
Concentration: 53.8 ppb

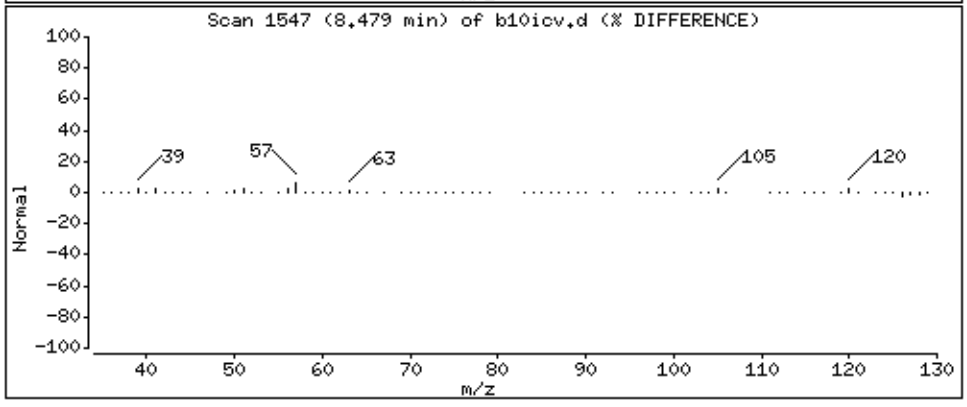












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

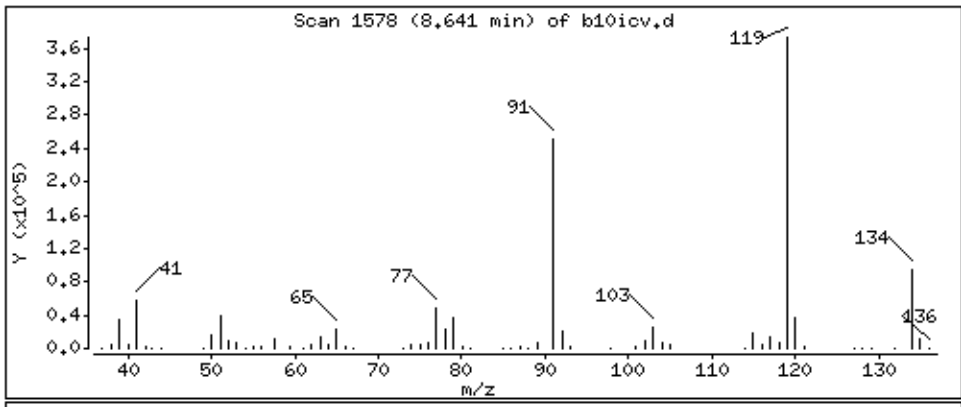
Operator: grm

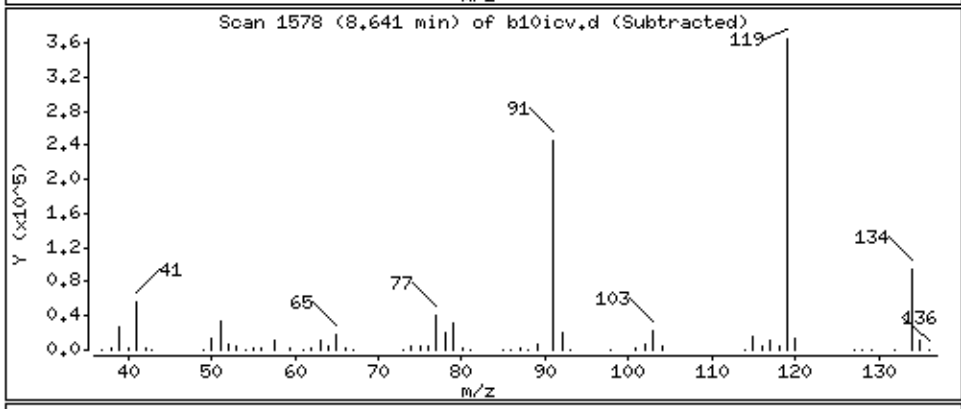
Column phase: DB-624

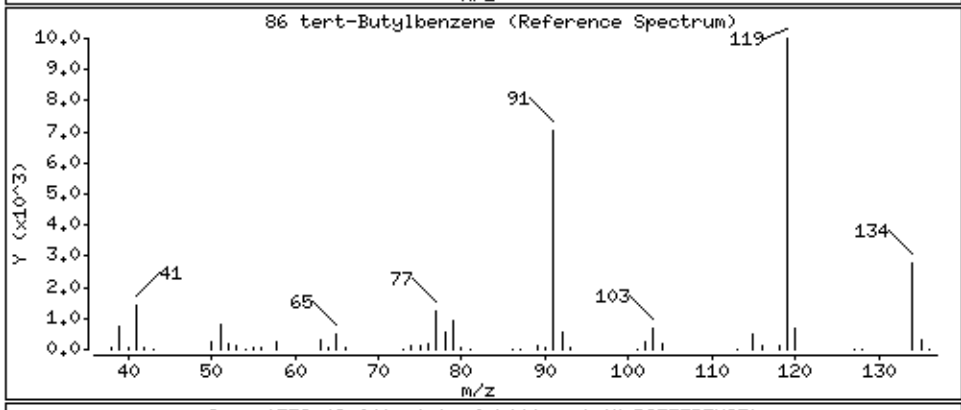
Column diameter: 0.18

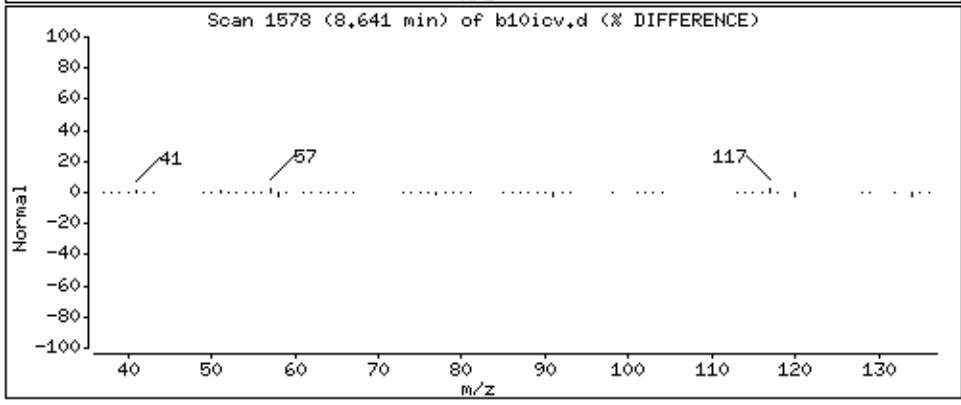
86 tert-Butylbenzene

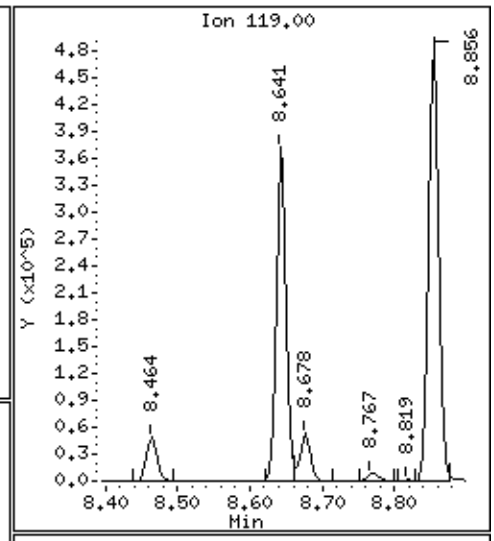
Concentration: 53.9 ppb

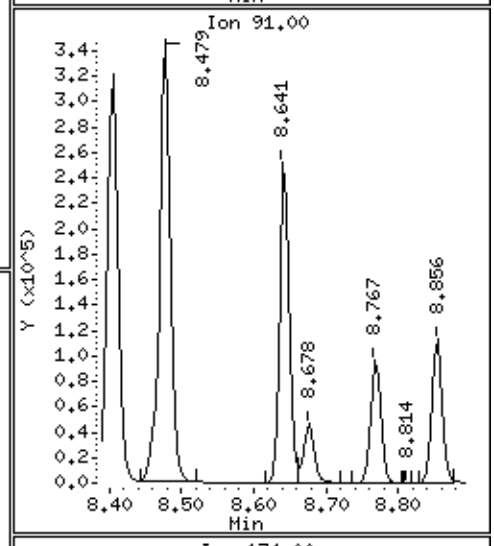


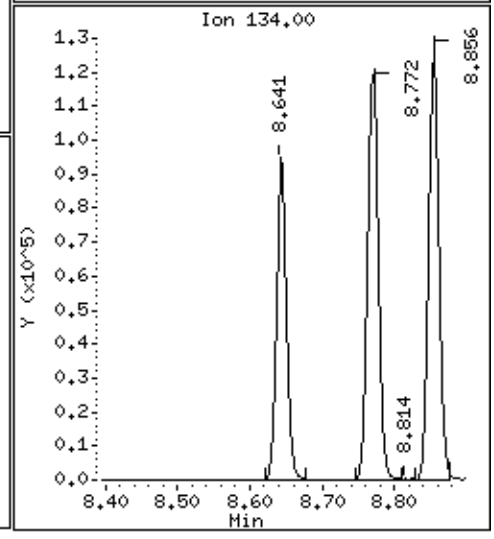












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

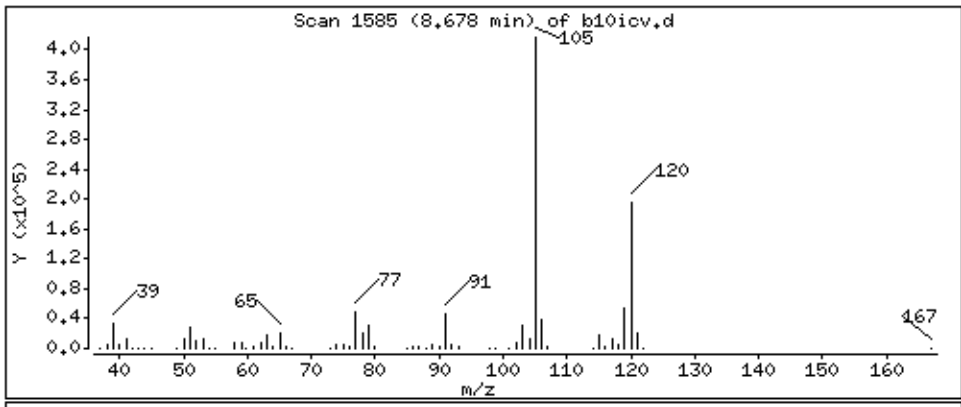
Operator: grm

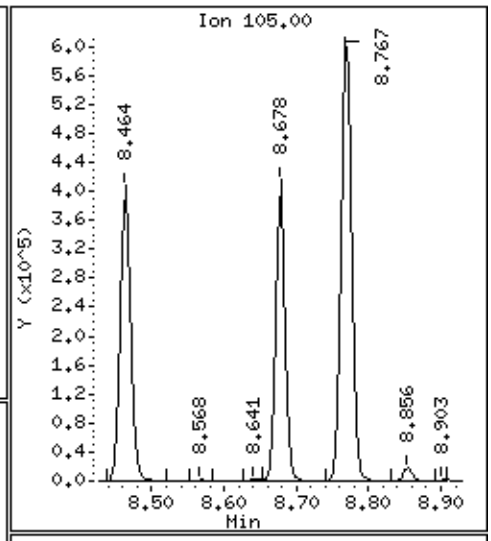
Column phase: DB-624

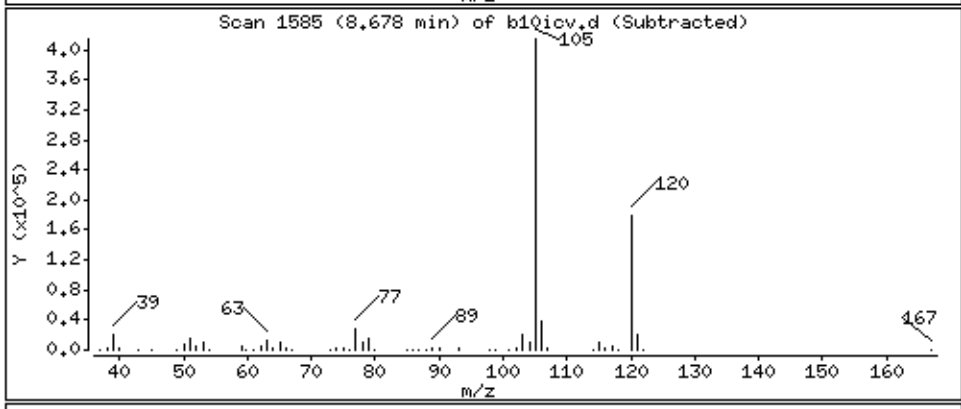
Column diameter: 0.18

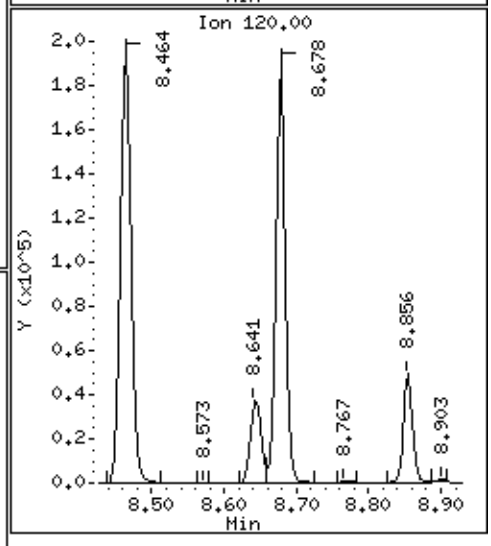
87 1,2,4-Trimethylbenzene

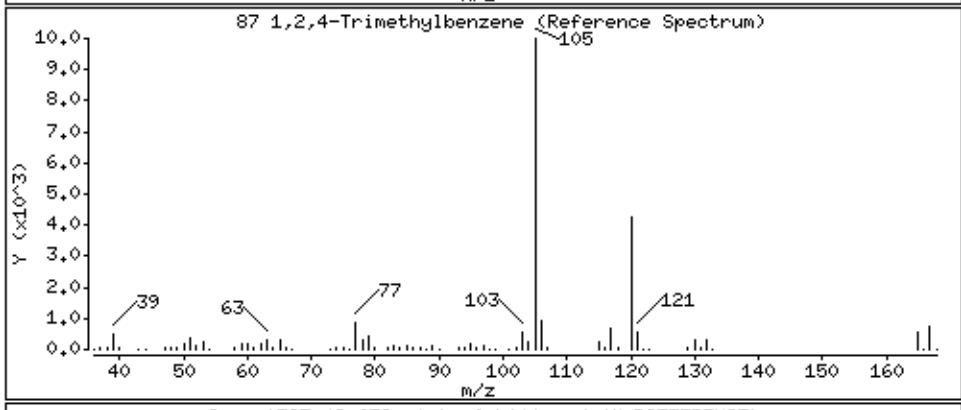
Concentration: 52.7 ppb

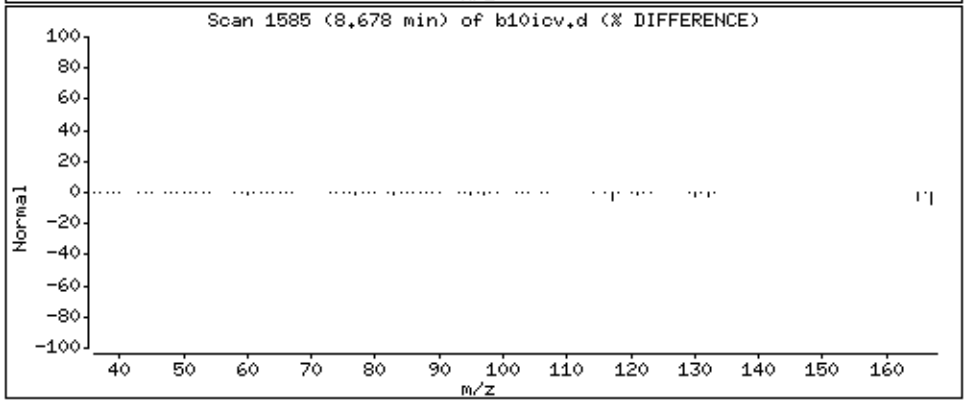












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

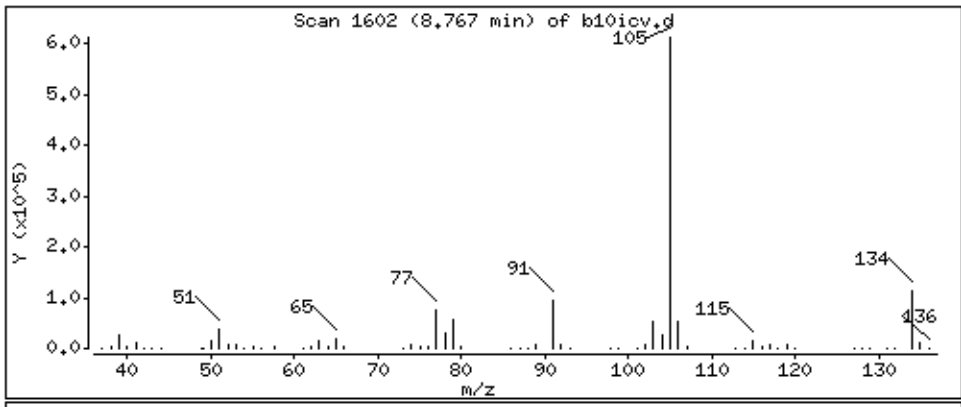
Operator: grm

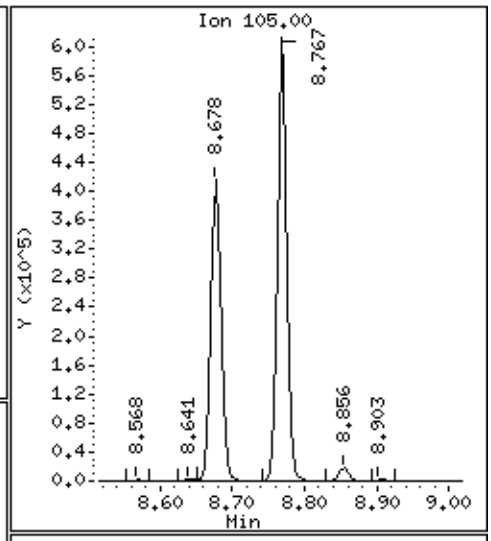
Column phase: DB-624

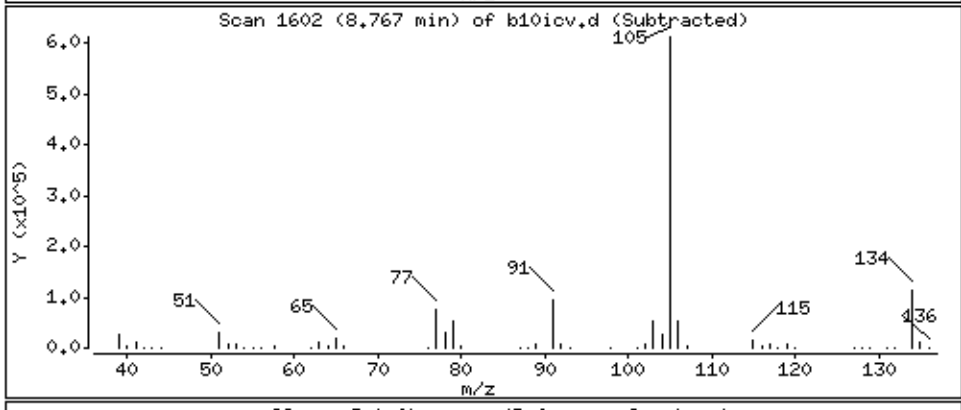
Column diameter: 0.18

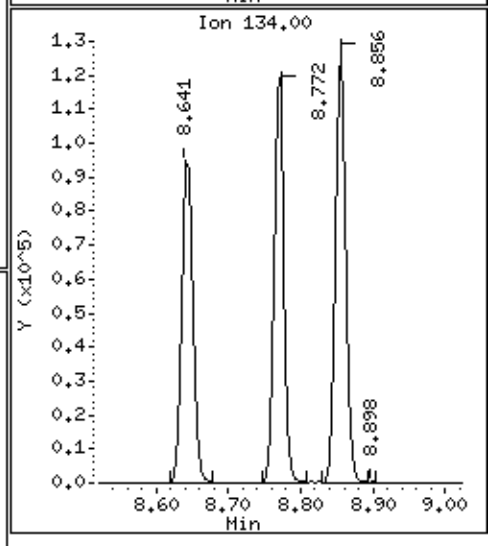
88 sec-Butylbenzene

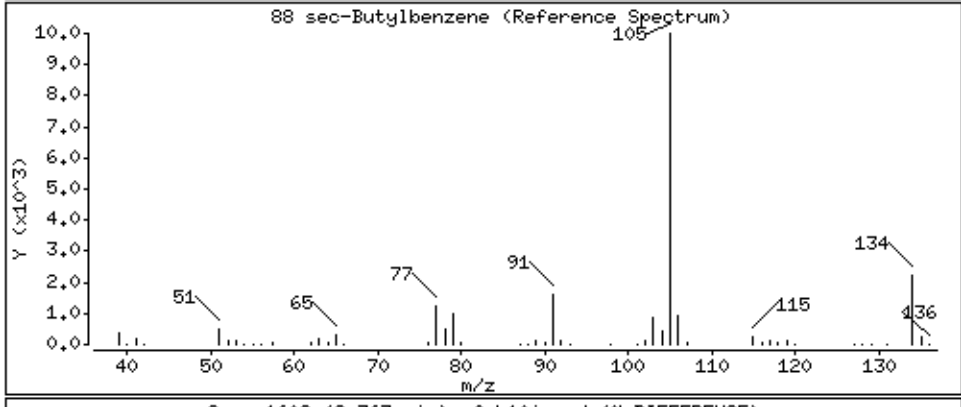
Concentration: 60.9 ppb

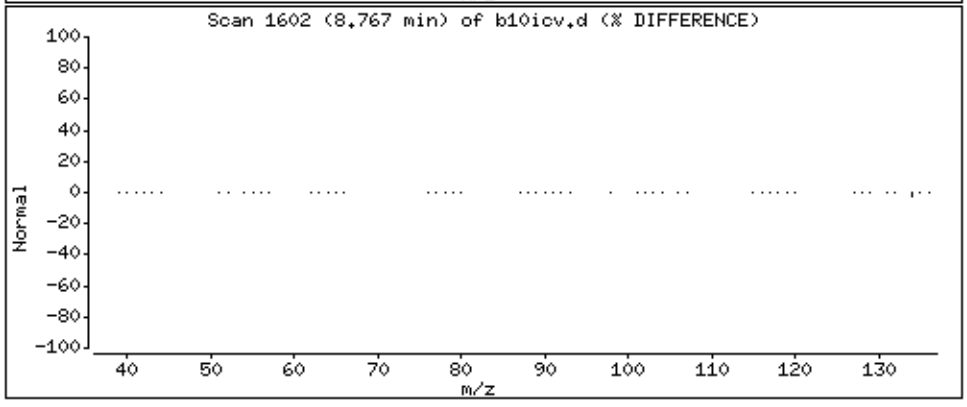












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

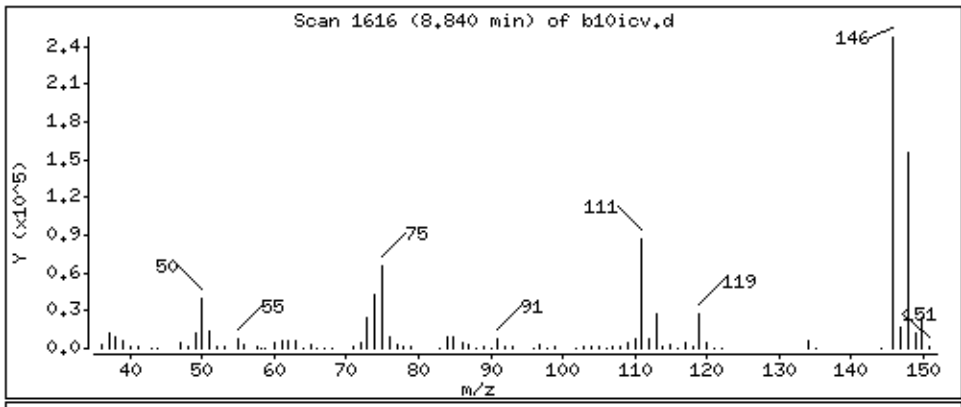
Operator: grm

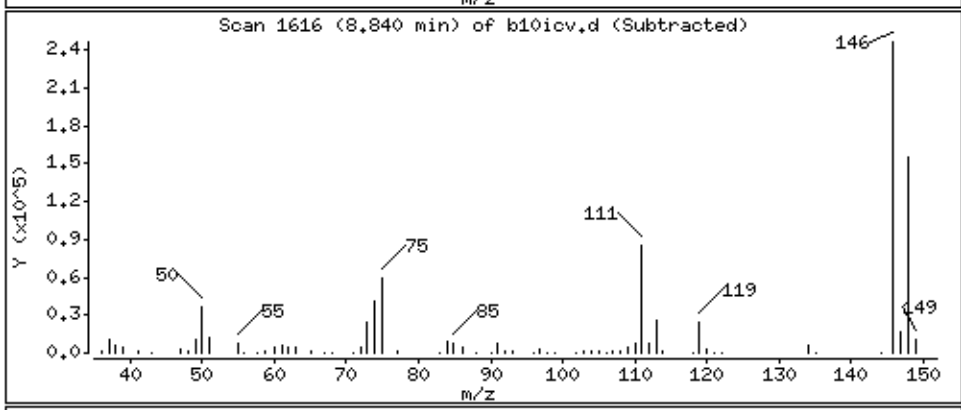
Column phase: DB-624

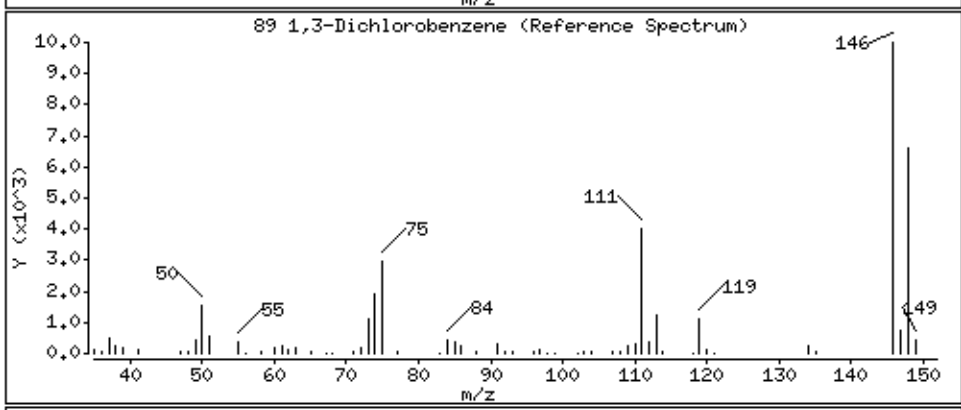
Column diameter: 0.18

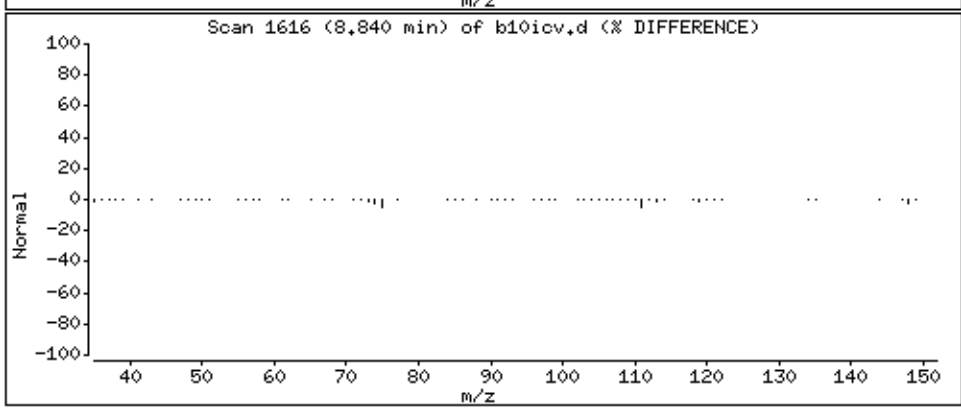
89 1,3-Dichlorobenzene

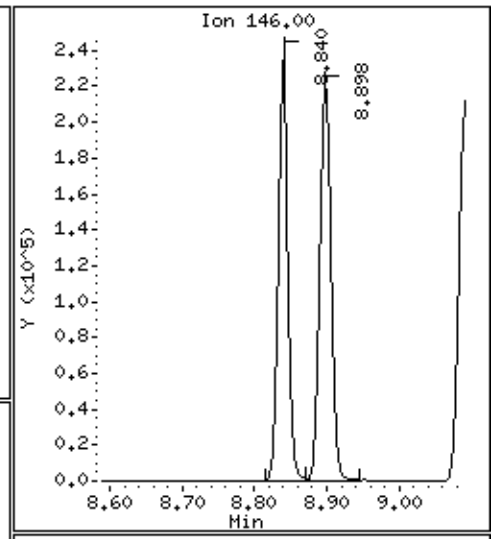
Concentration: 51.9 ppb

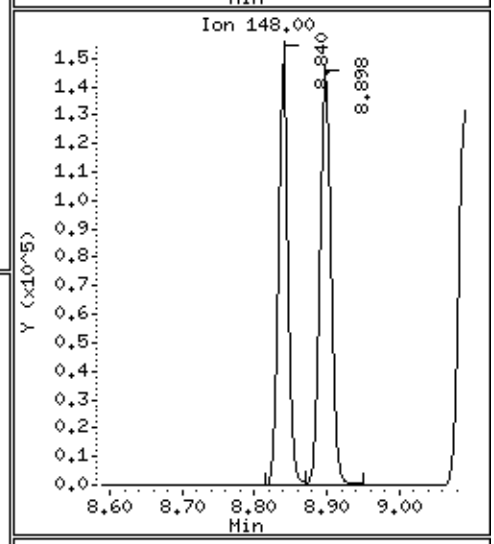


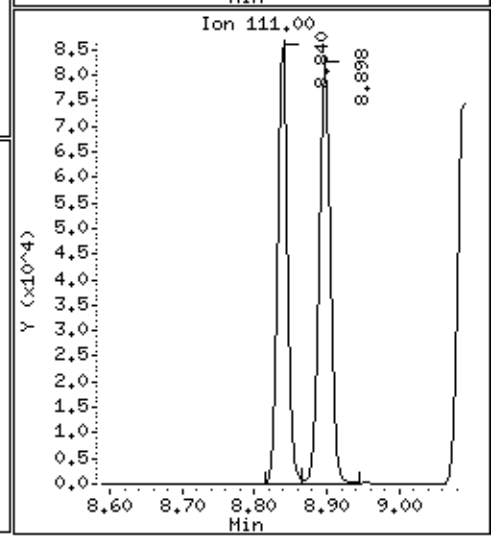












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

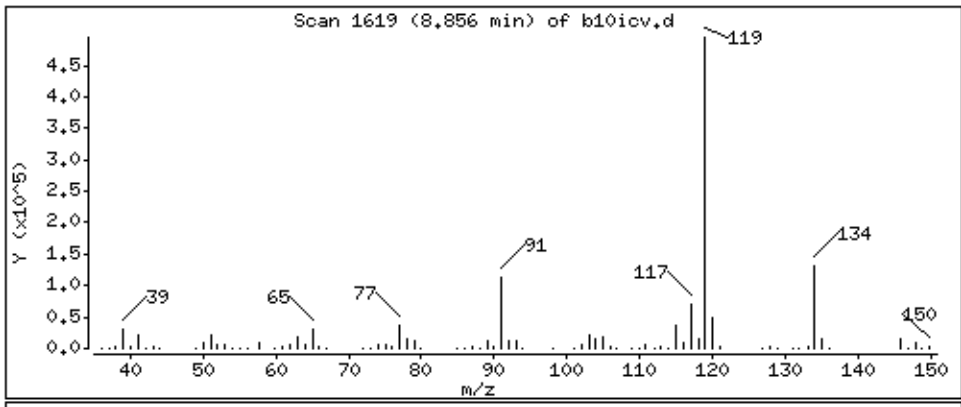
Operator: grm

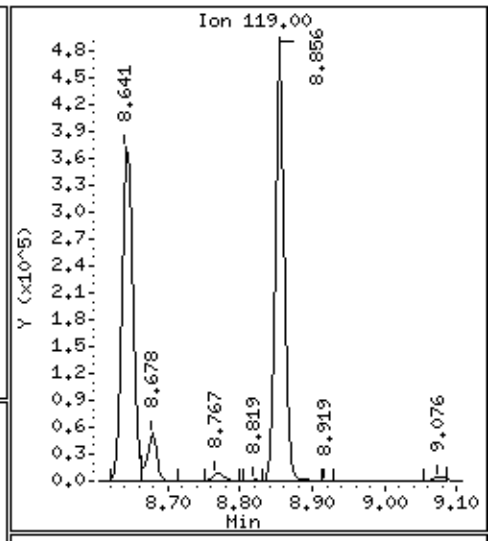
Column phase: DB-624

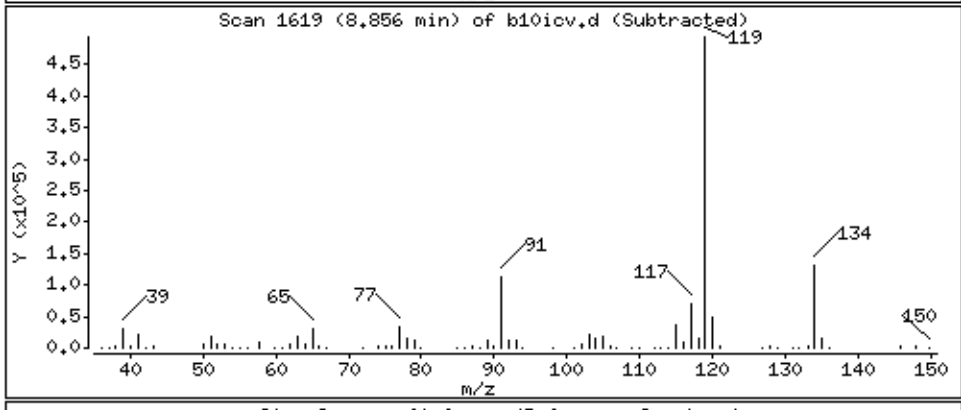
Column diameter: 0.18

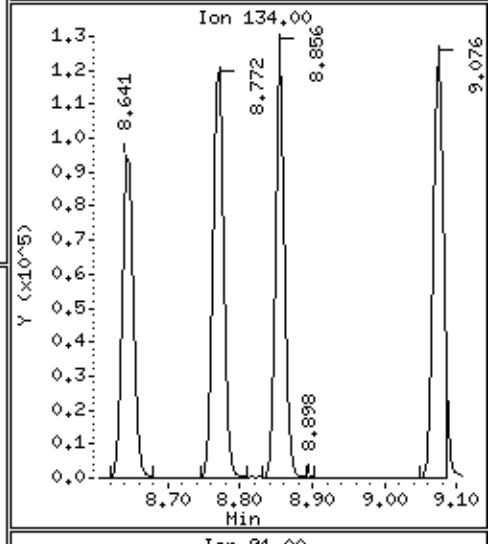
90 p-Isopropyltoluene

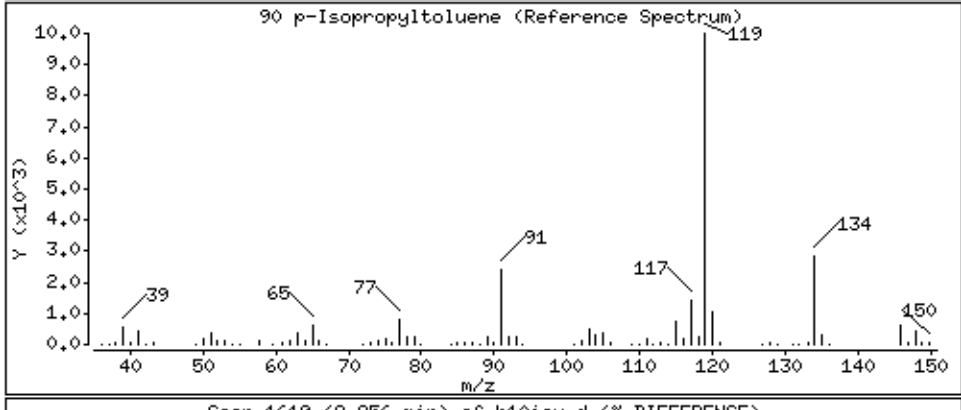
Concentration: 53.0 ppb

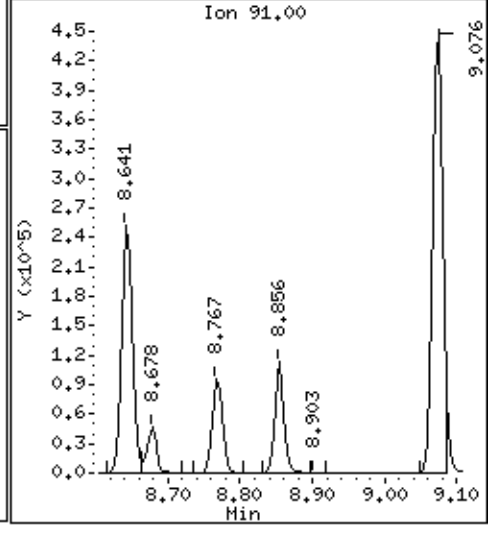


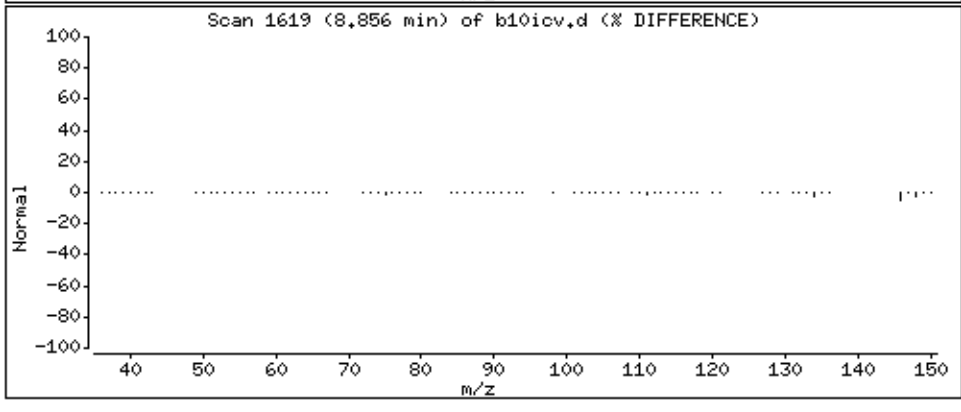












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

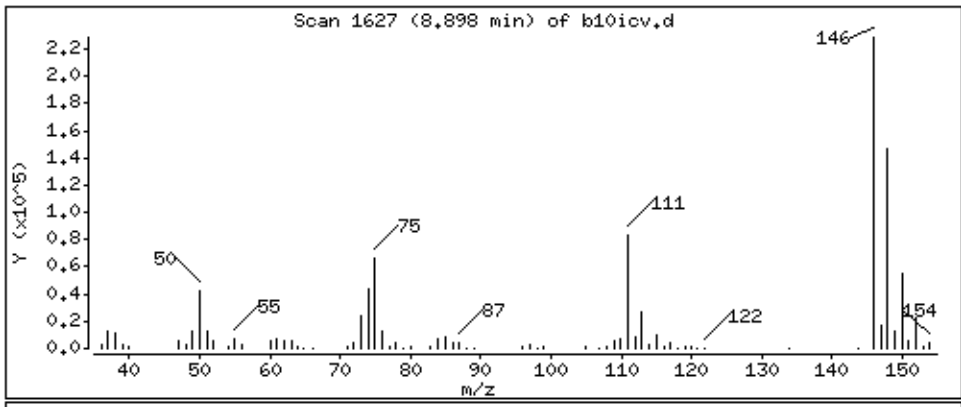
Operator: grm

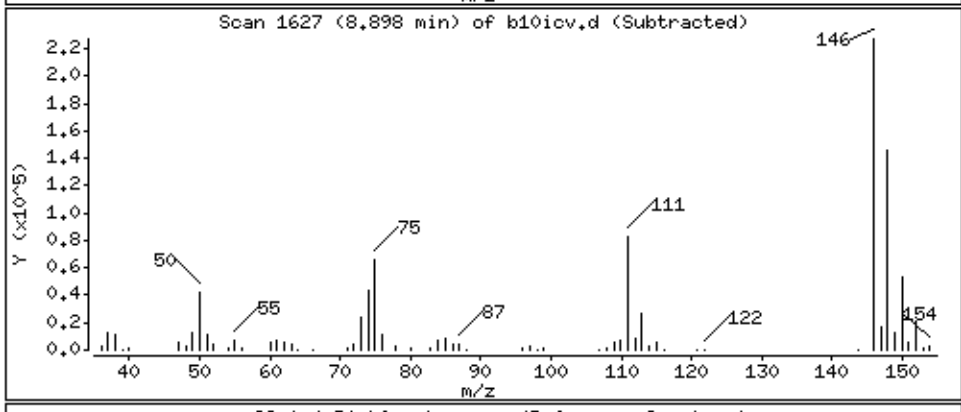
Column phase: DB-624

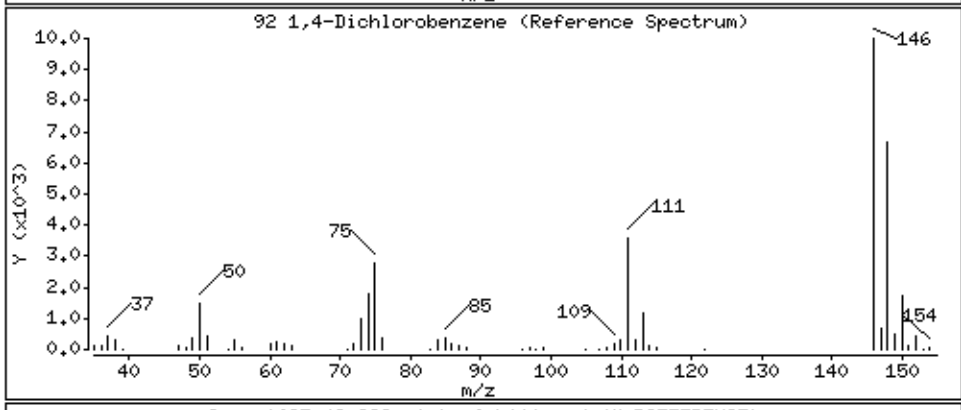
Column diameter: 0.18

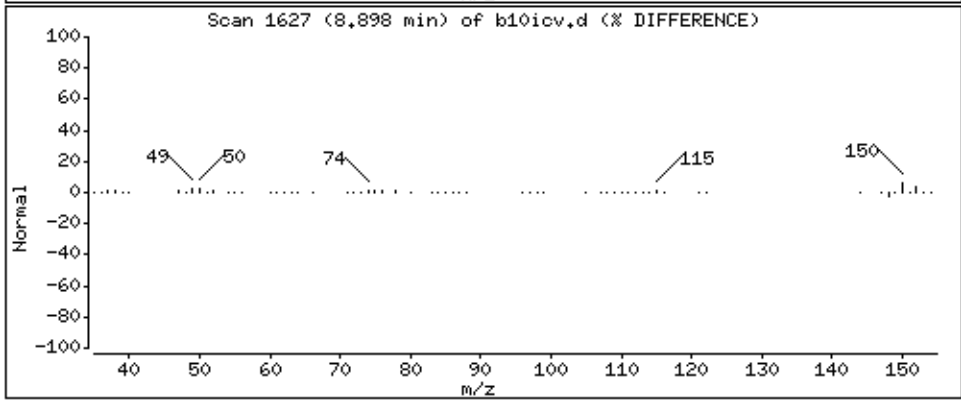
92 1,4-Dichlorobenzene

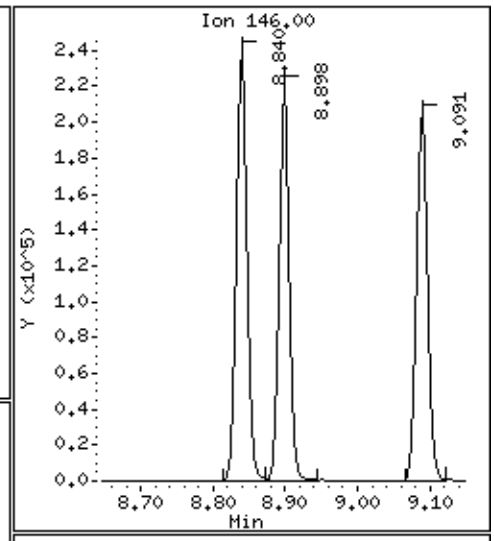
Concentration: 51.4 ppb

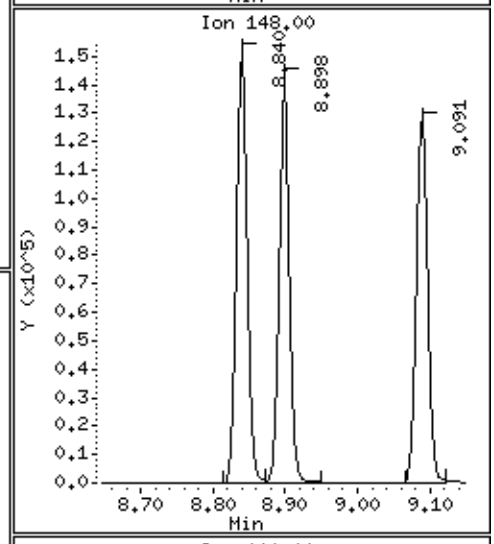


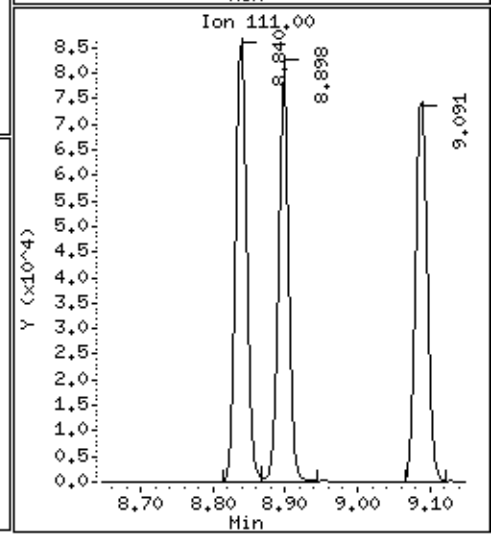












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Page 92

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

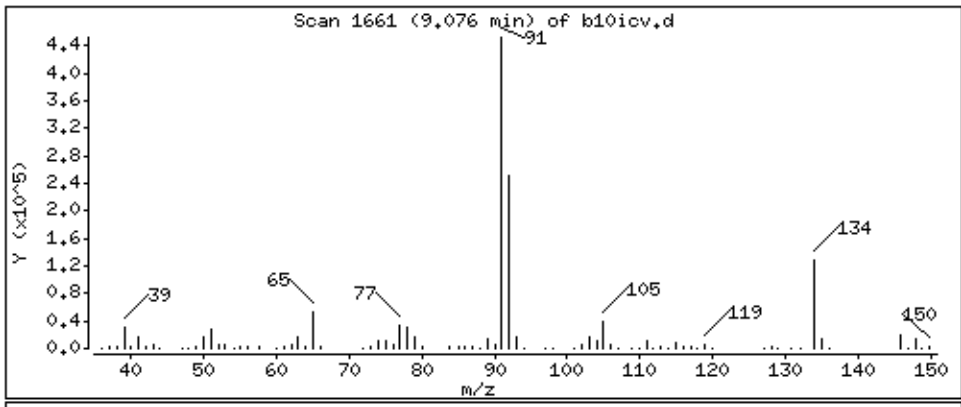
Operator: grm

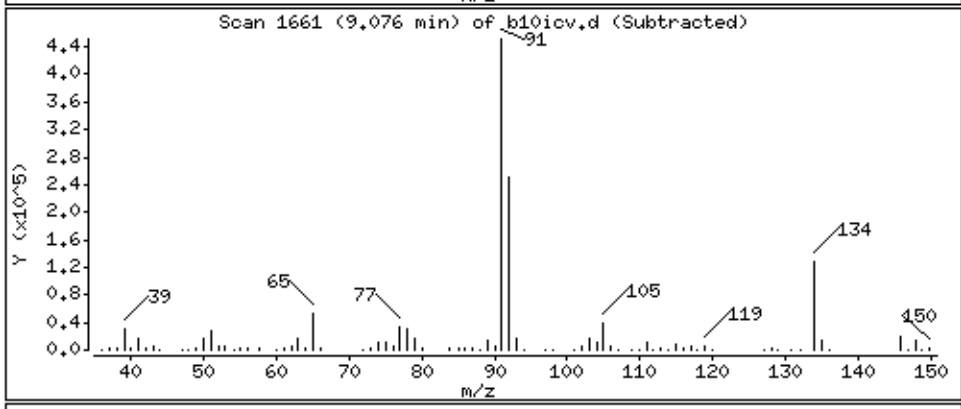
Column phase: DB-624

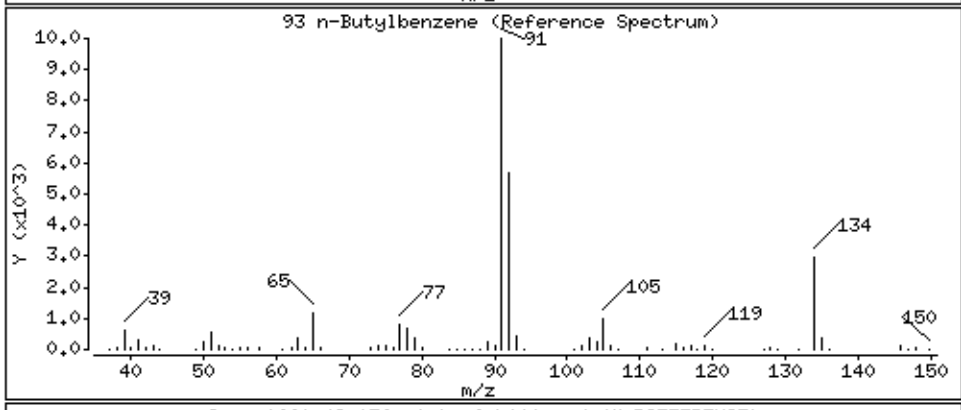
Column diameter: 0.18

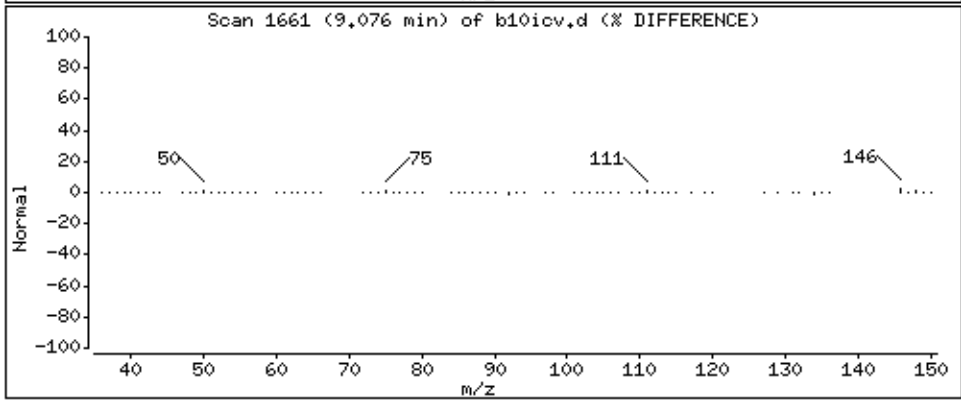
93 n-Butylbenzene

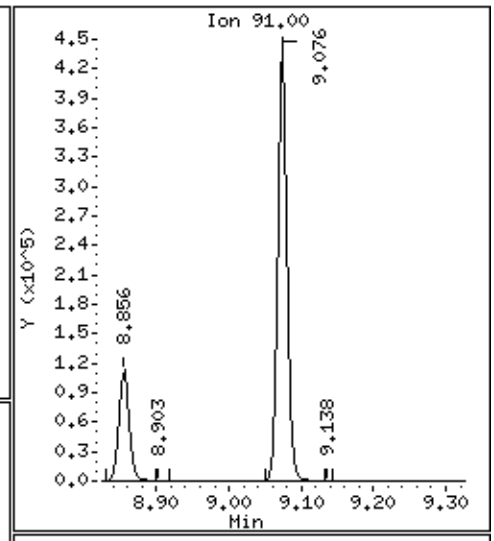
Concentration: 55.6 ppb

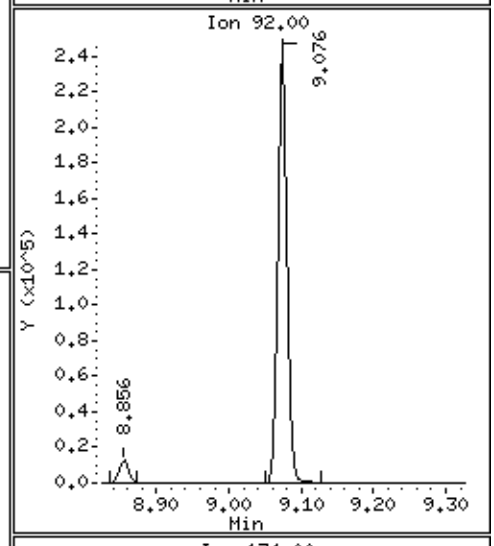


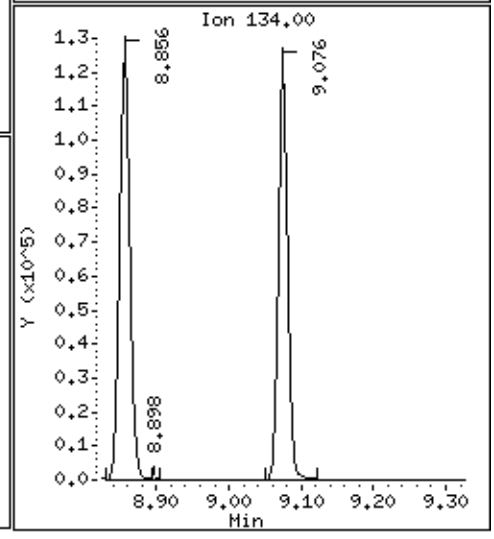












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

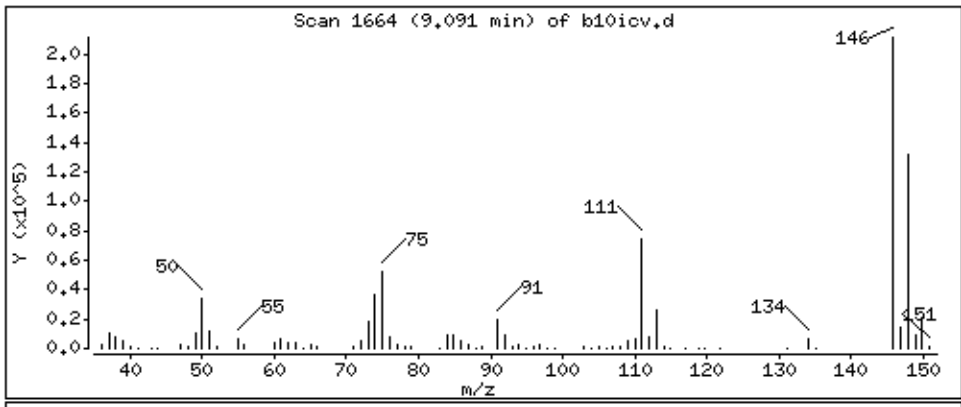
Operator: grm

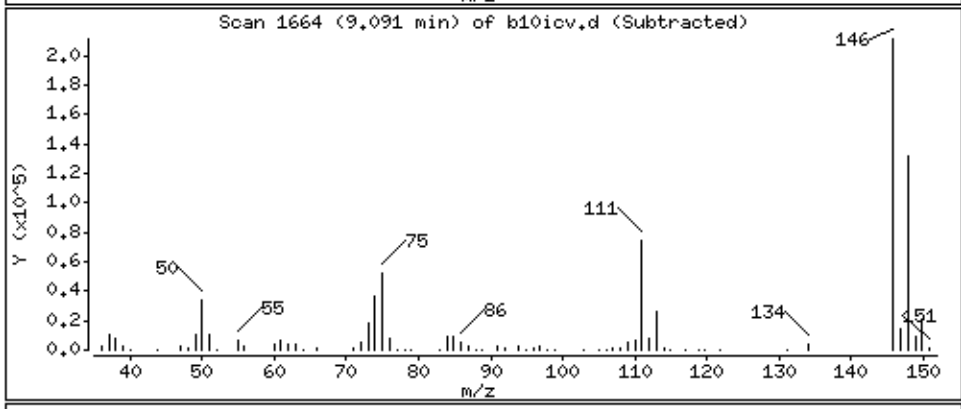
Column phase: DB-624

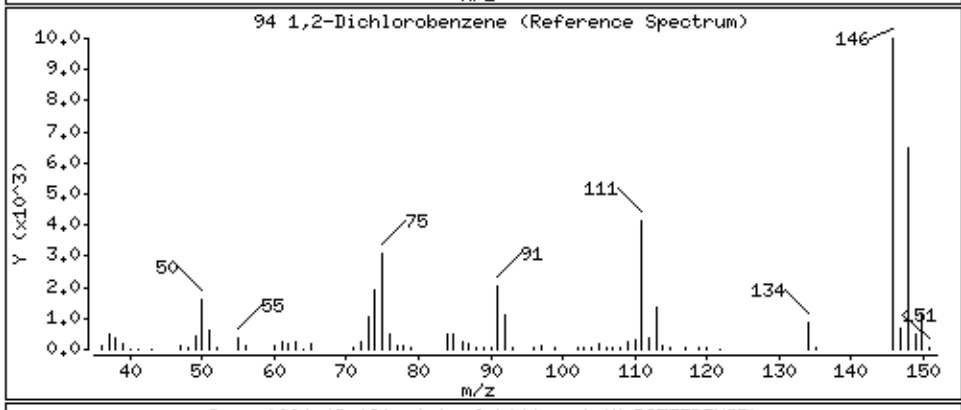
Column diameter: 0.18

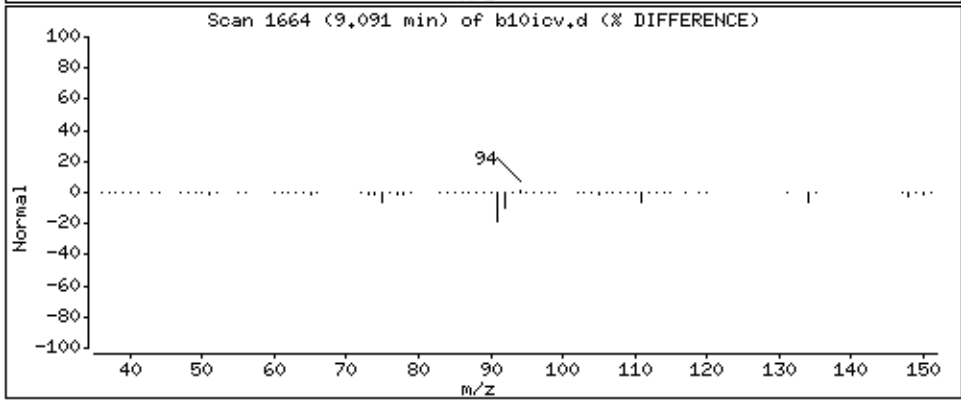
94 1,2-Dichlorobenzene

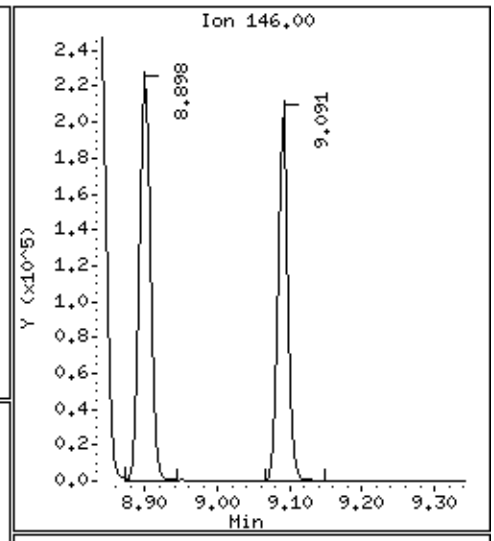
Concentration: 53.3 ppb

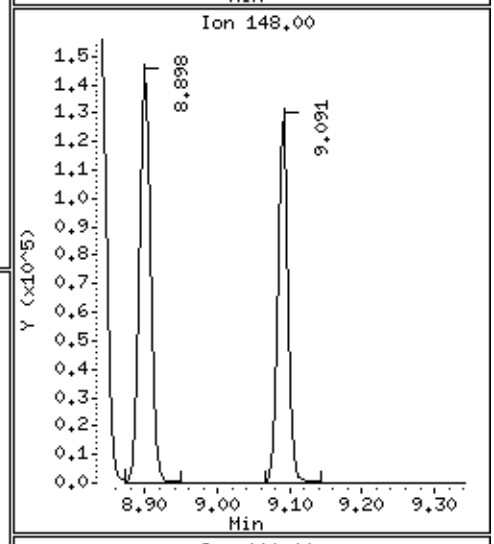


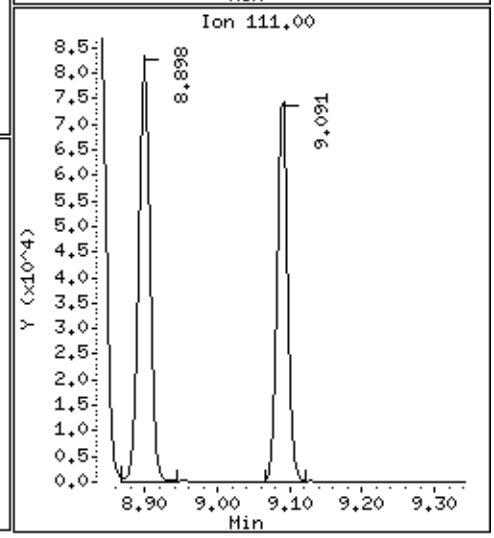












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

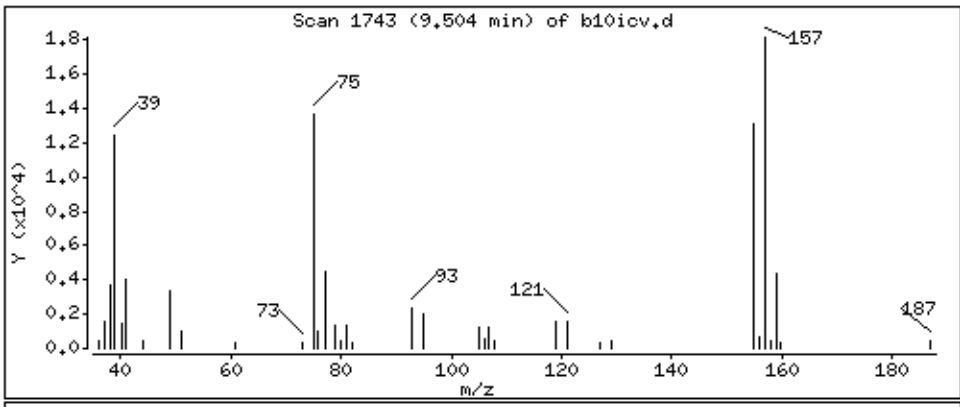
Operator: grm

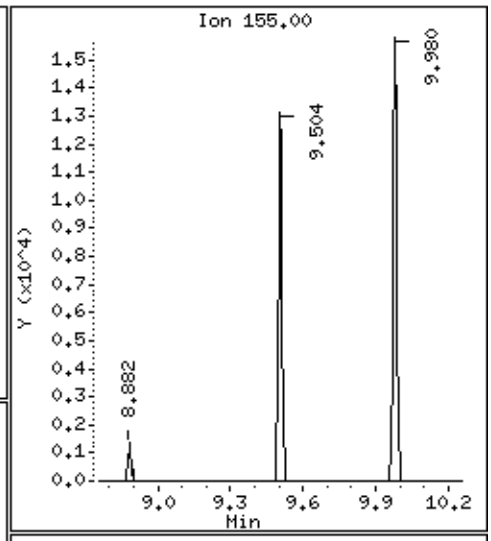
Column phase: DB-624

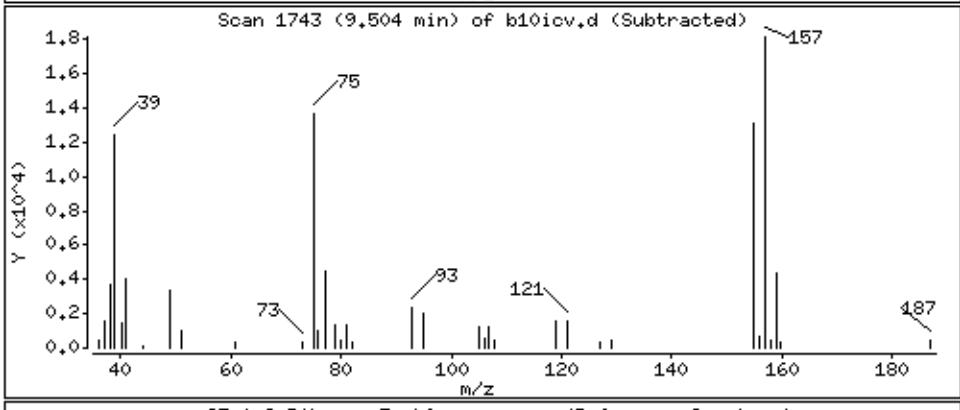
Column diameter: 0.18

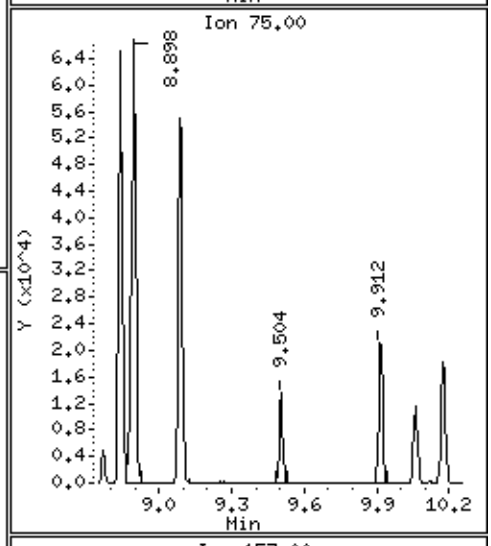
95 1,2-Dibromo-3-chloropropane

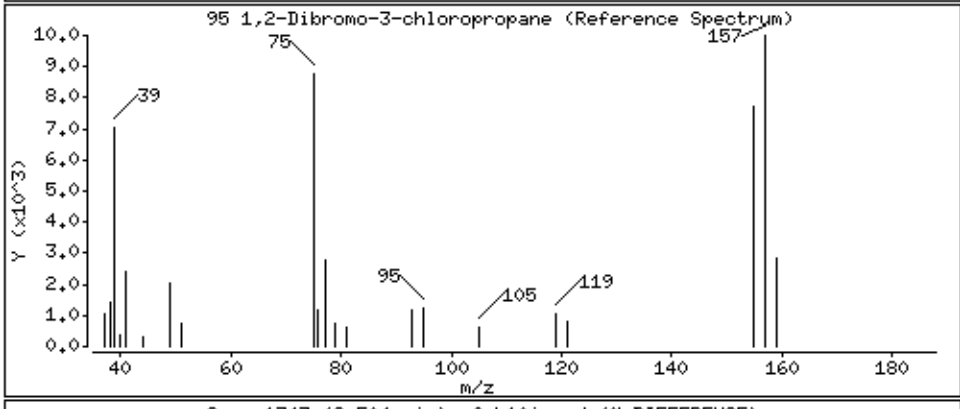
Concentration: 56.9 ppb

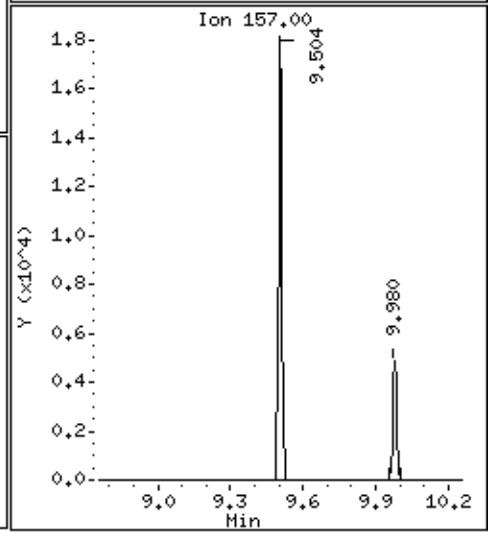


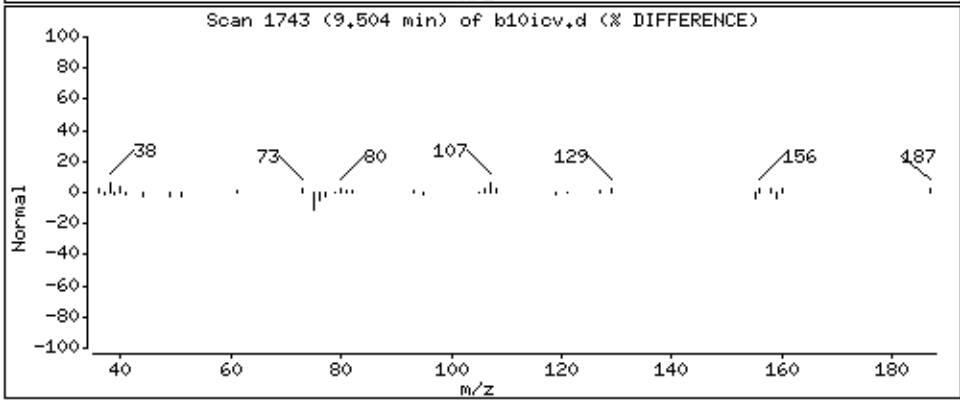












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

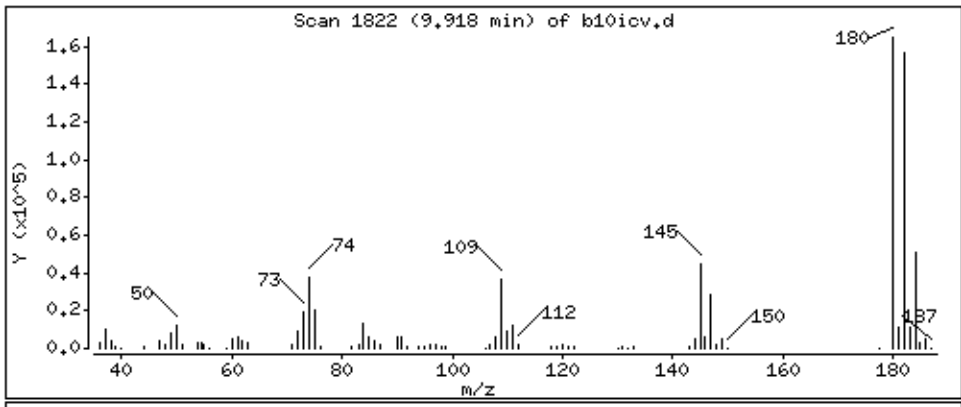
Operator: grm

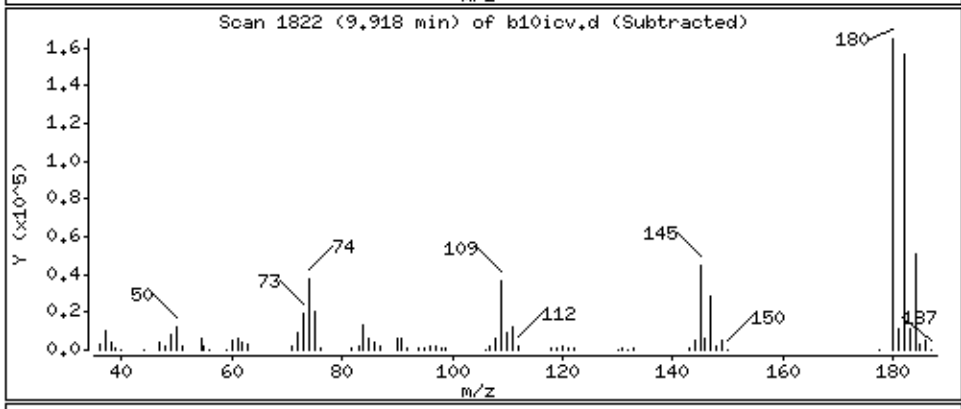
Column phase: DB-624

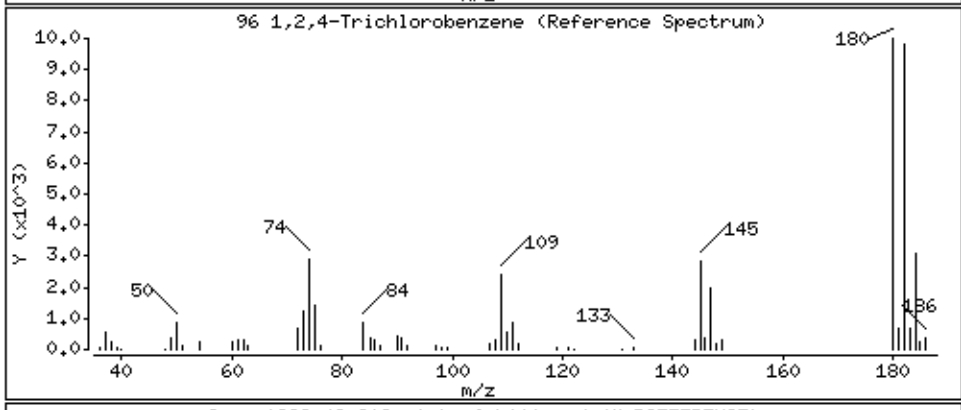
Column diameter: 0.18

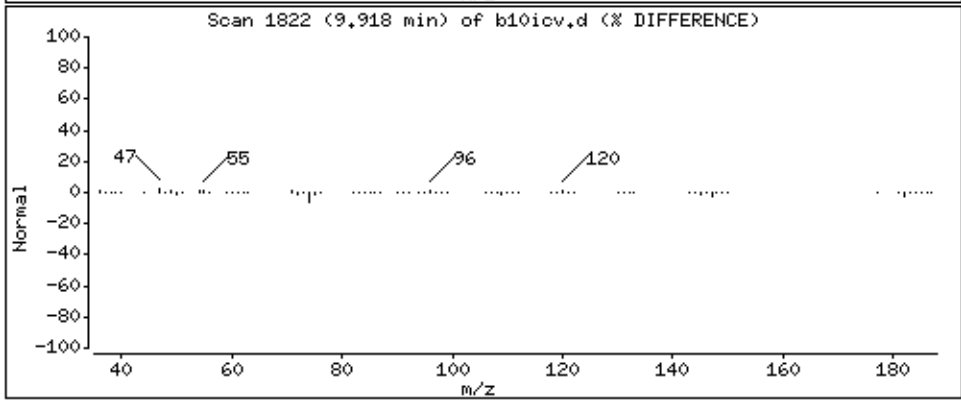
96 1,2,4-Trichlorobenzene

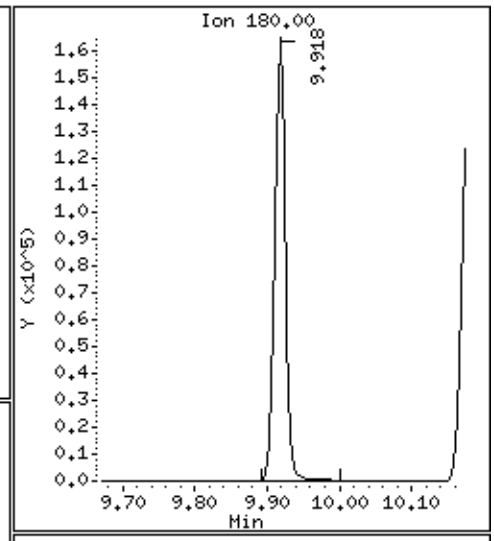
Concentration: 50.9 ppb

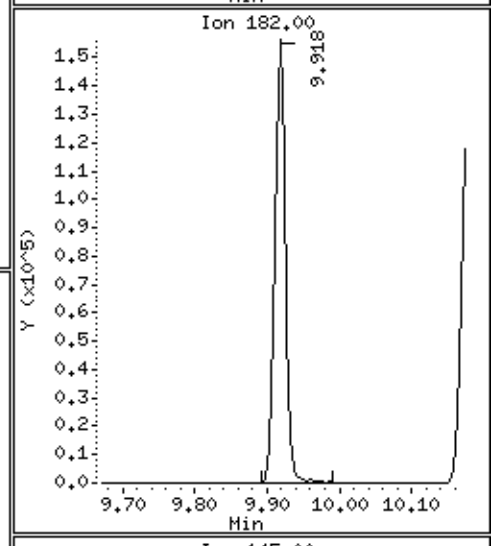


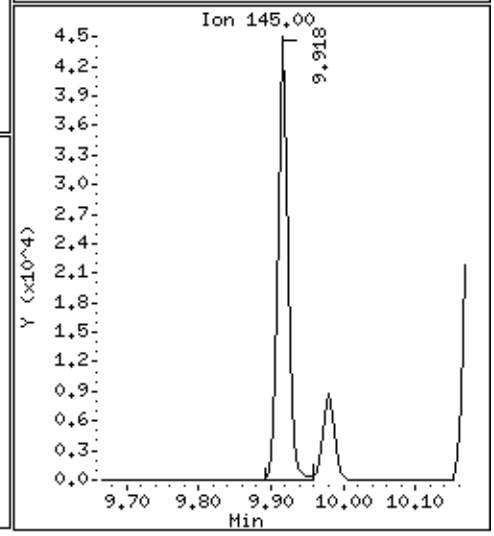












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

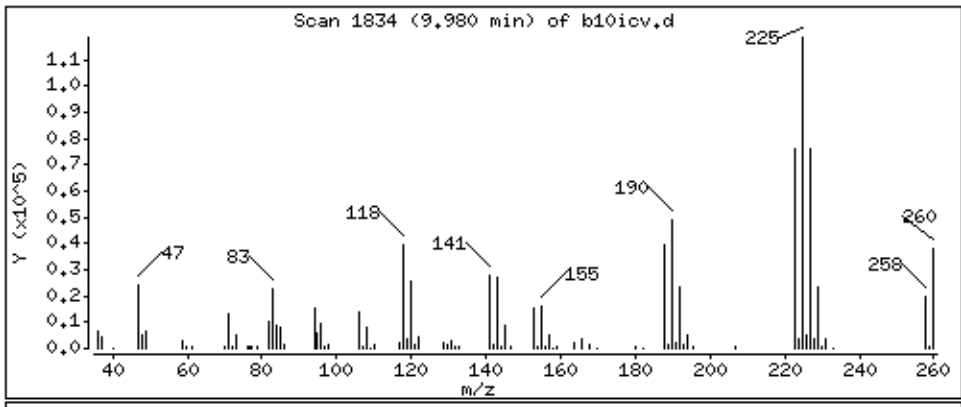
Operator: grm

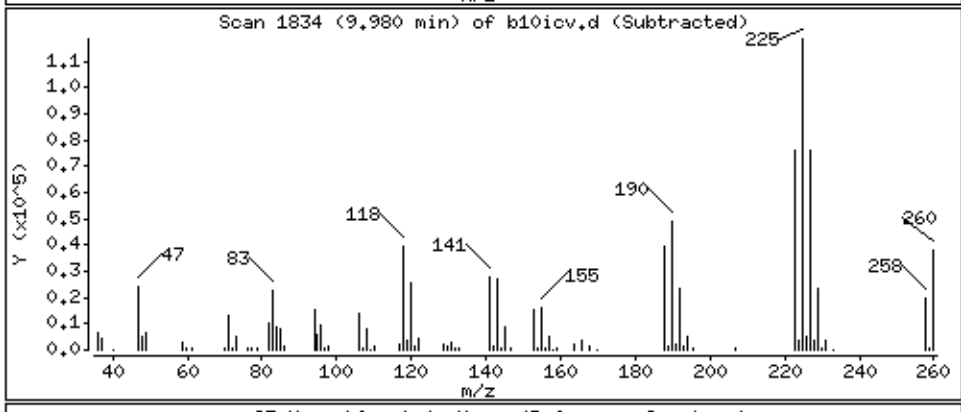
Column phase: DB-624

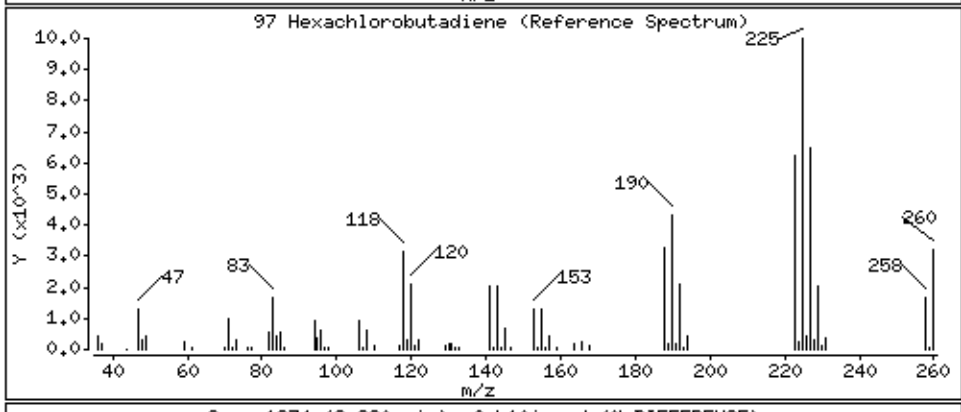
Column diameter: 0.18

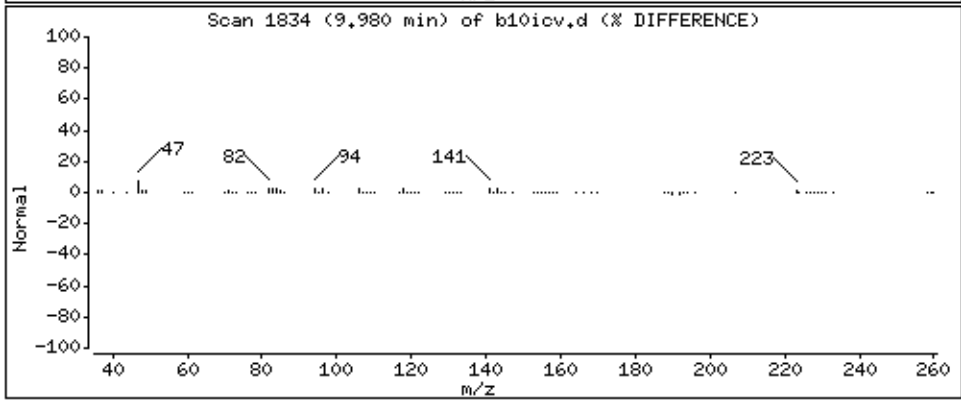
97 Hexachlorobutadiene

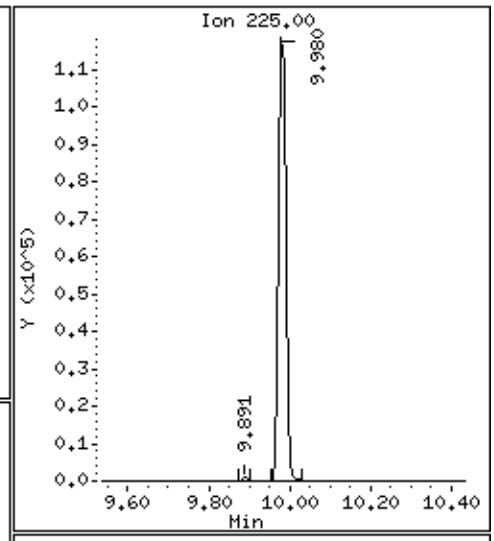
Concentration: 54.5 ppb

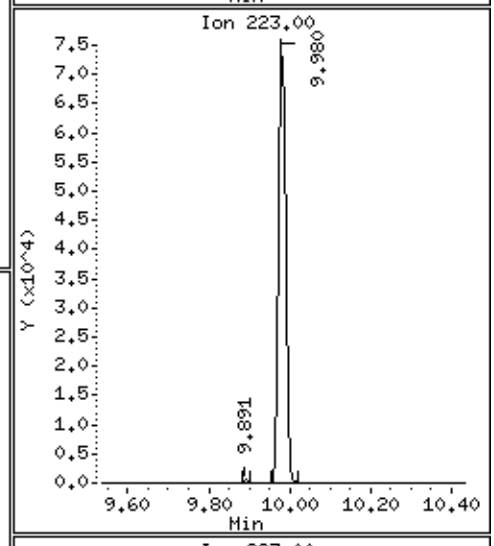


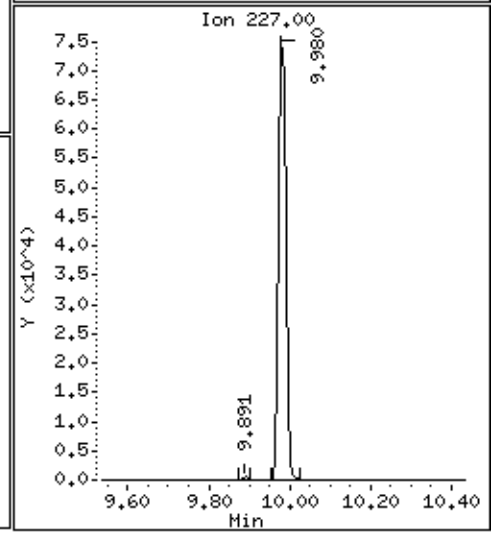












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

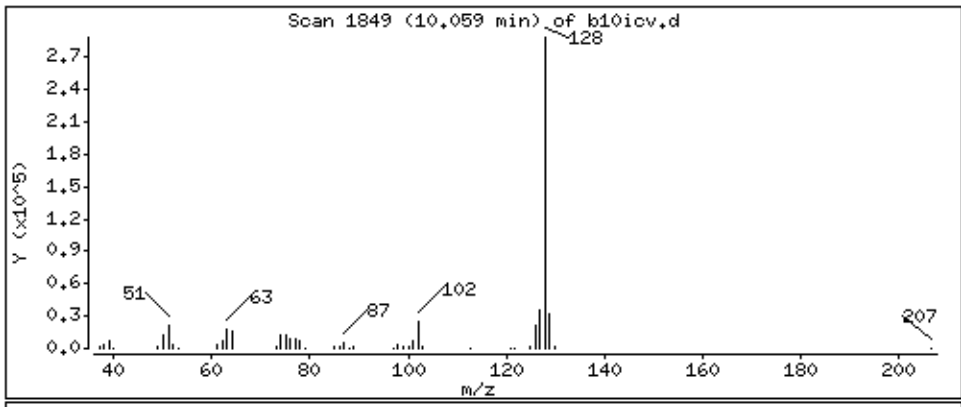
Operator: grm

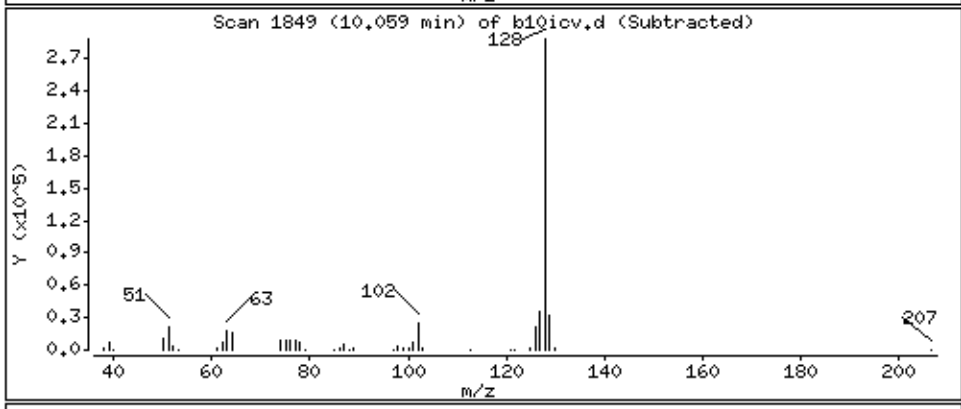
Column phase: DB-624

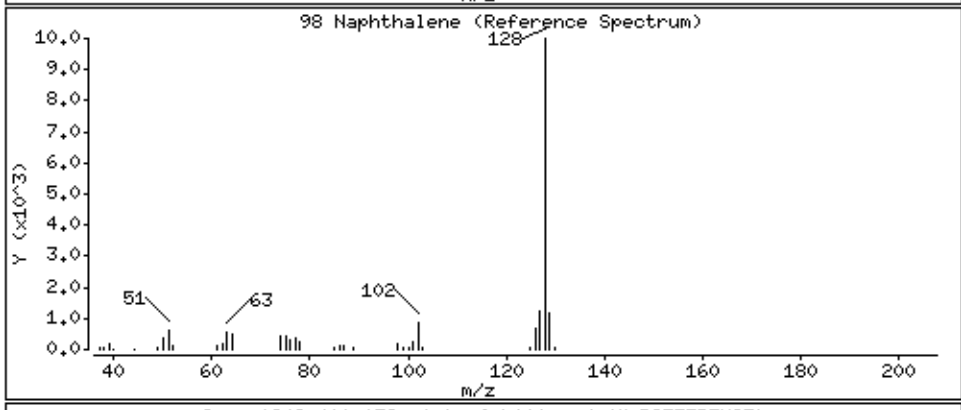
Column diameter: 0.18

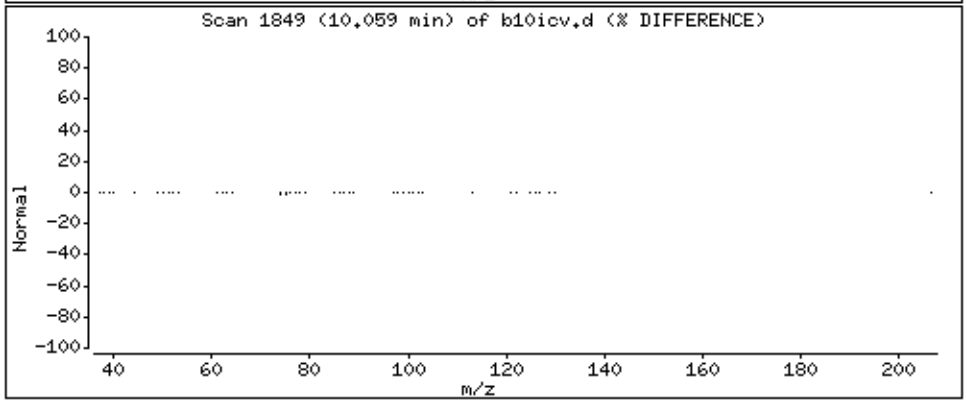
98 Naphthalene

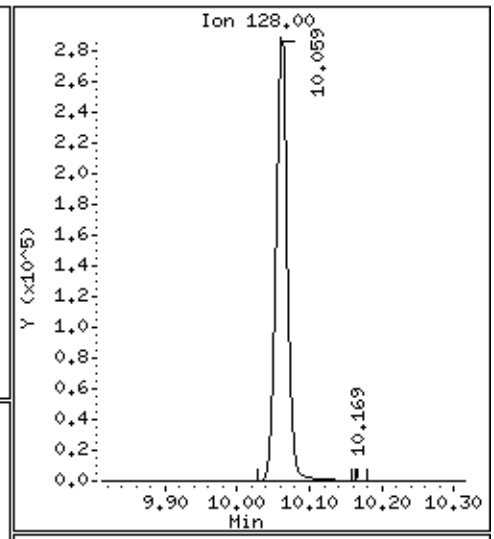
Concentration: 50.1 ppb

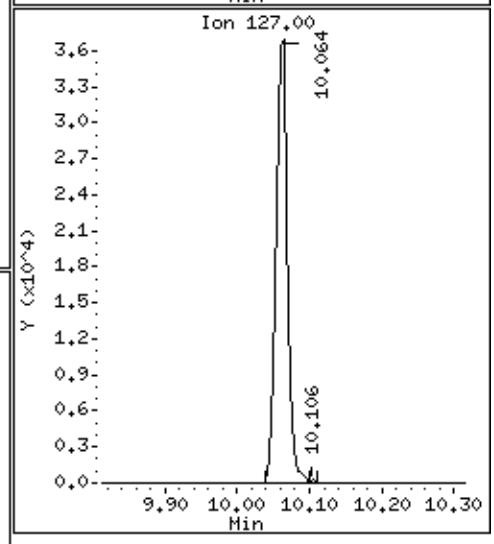












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

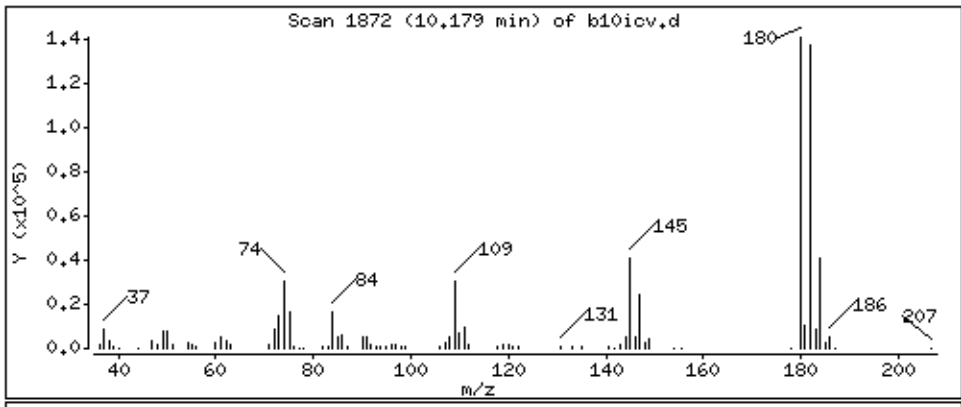
Operator: grm

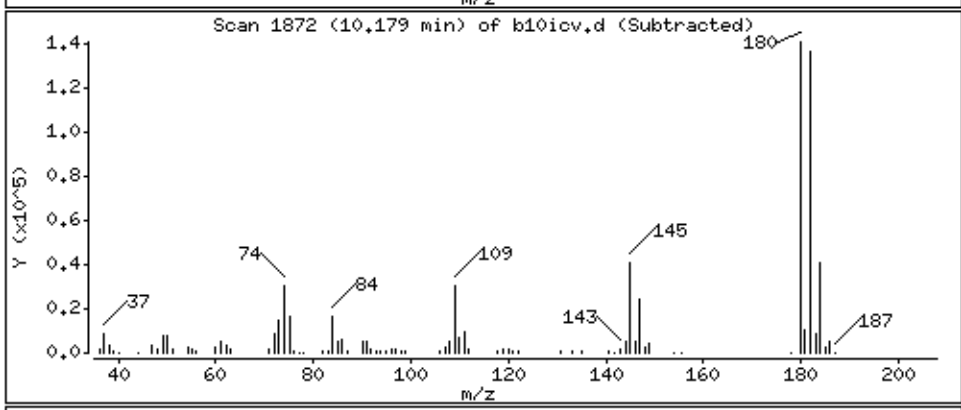
Column phase: DB-624

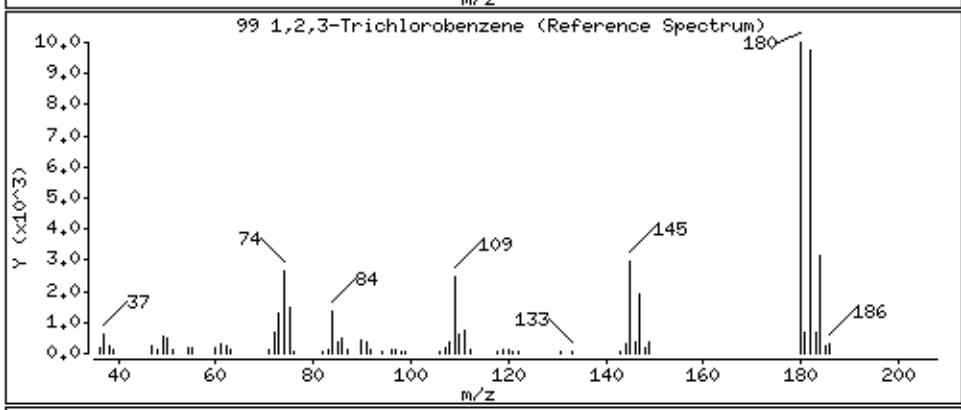
Column diameter: 0.18

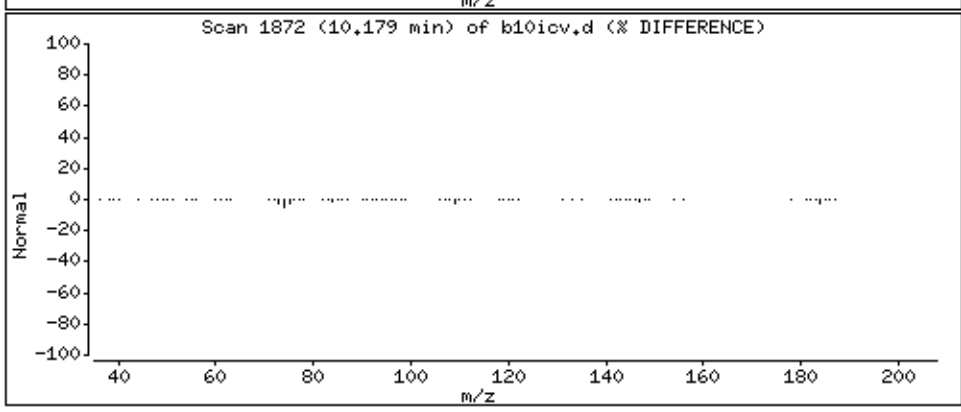
99 1,2,3-Trichlorobenzene

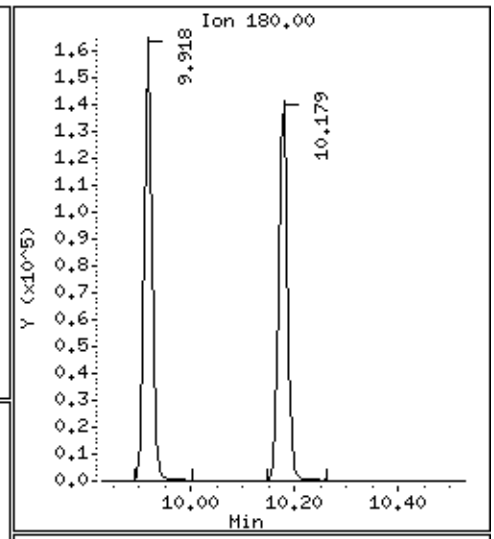
Concentration: 49.5 ppb

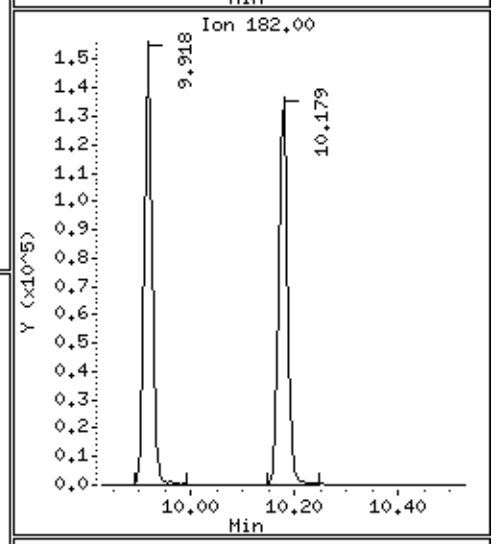


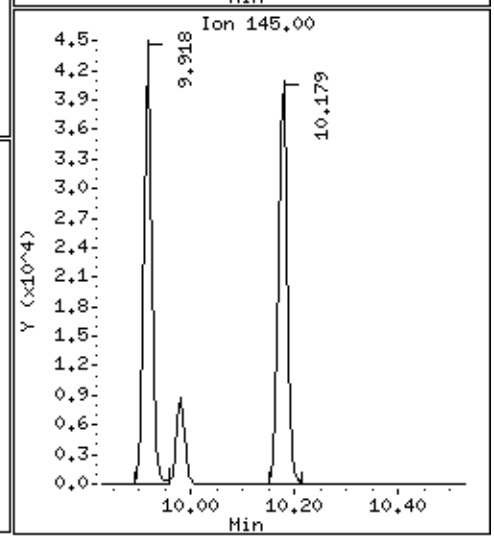












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

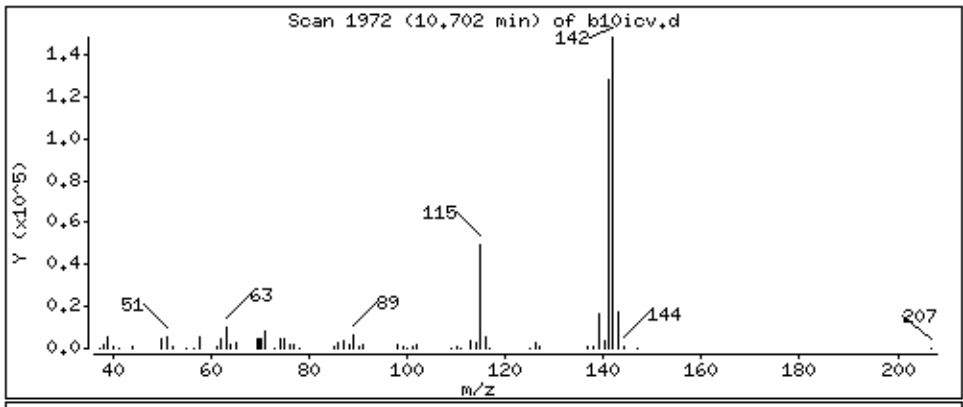
Operator: grm

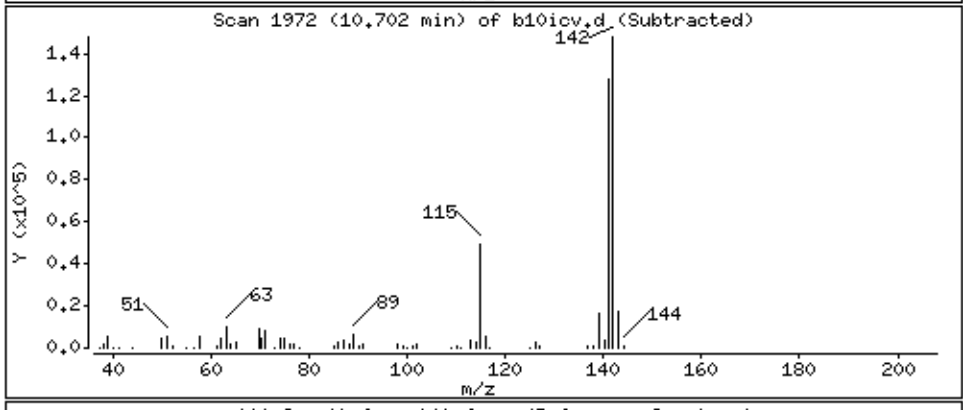
Column phase: DB-624

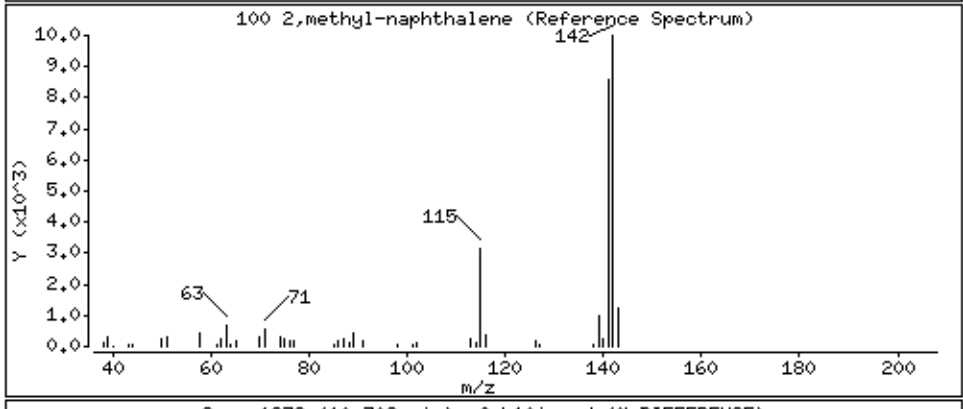
Column diameter: 0.18

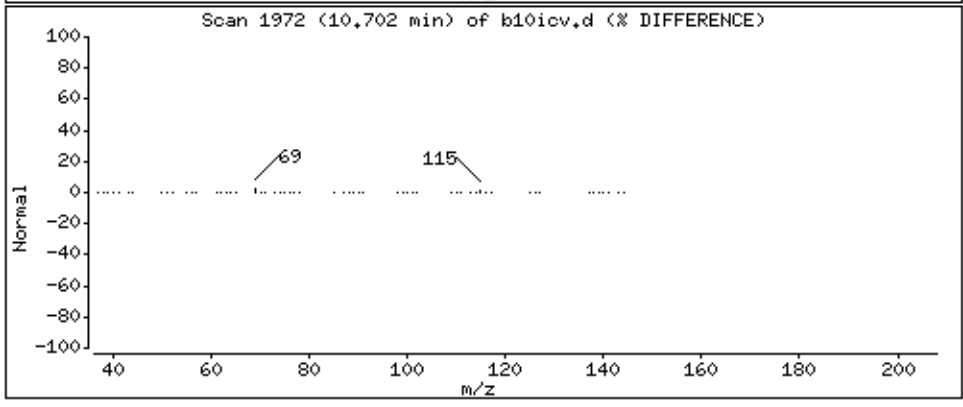
100 2,methyl-naphthalene

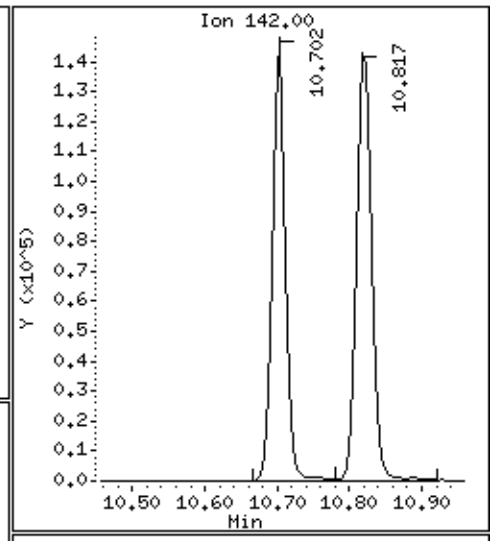
Concentration: 43.0 ppb

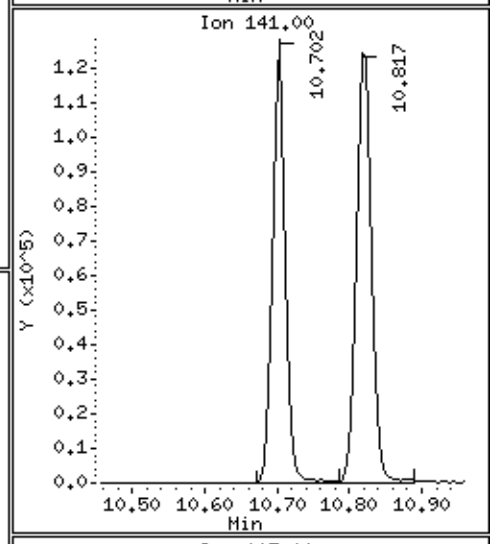


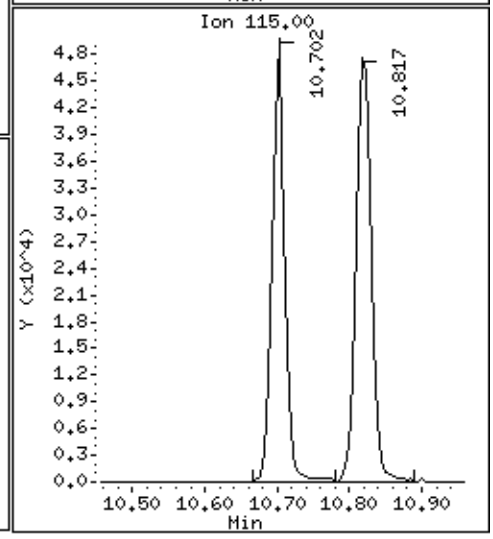












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b10icv.d

Date : 15-MAR-2016 23:17

Client ID: 8260-ICV,117048:0

Instrument: 50mv1b.i

Sample Info: 8260-ICV,117048:0

Purge Volume: 5.0

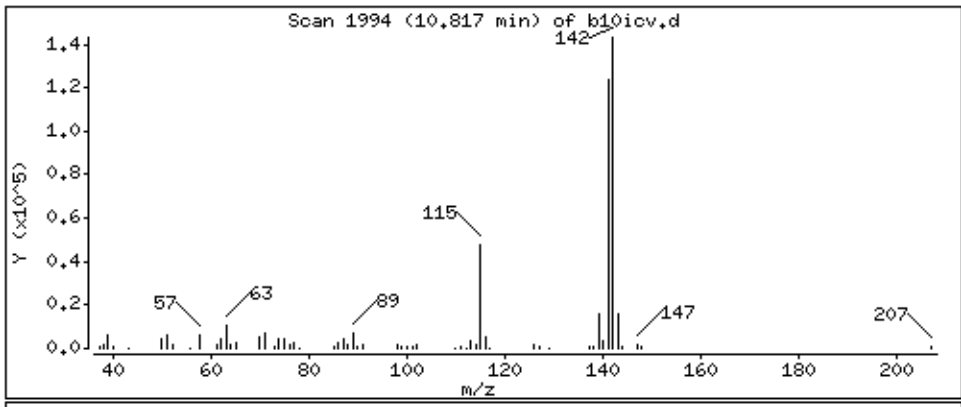
Operator: grm

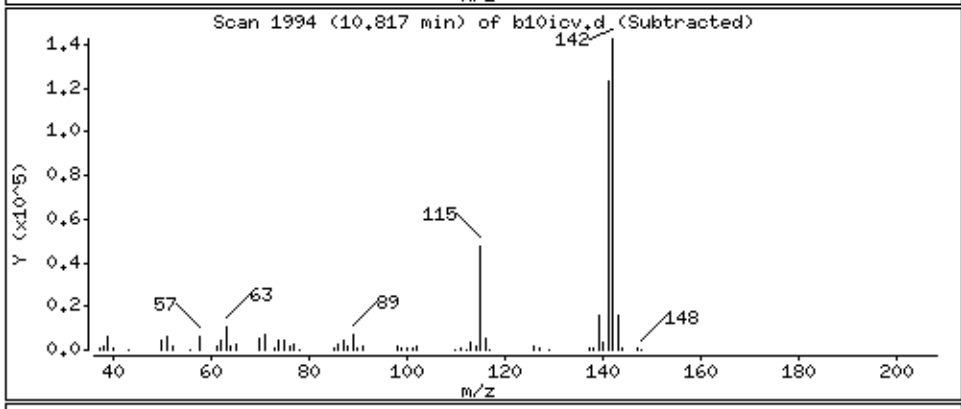
Column phase: DB-624

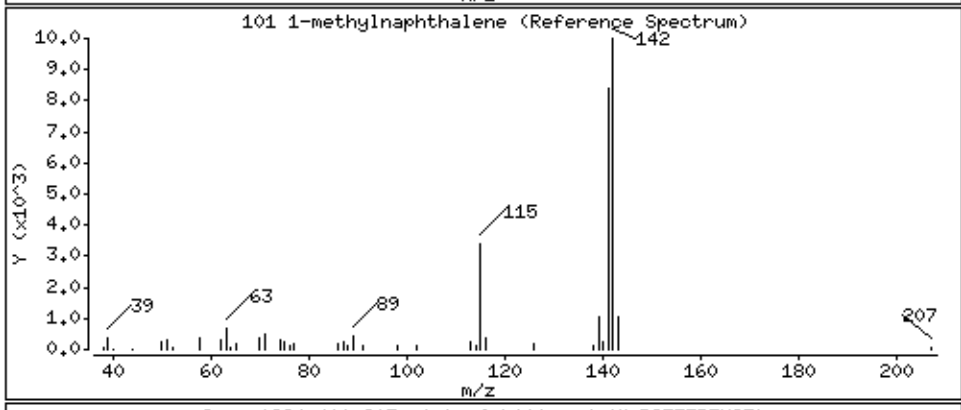
Column diameter: 0.18

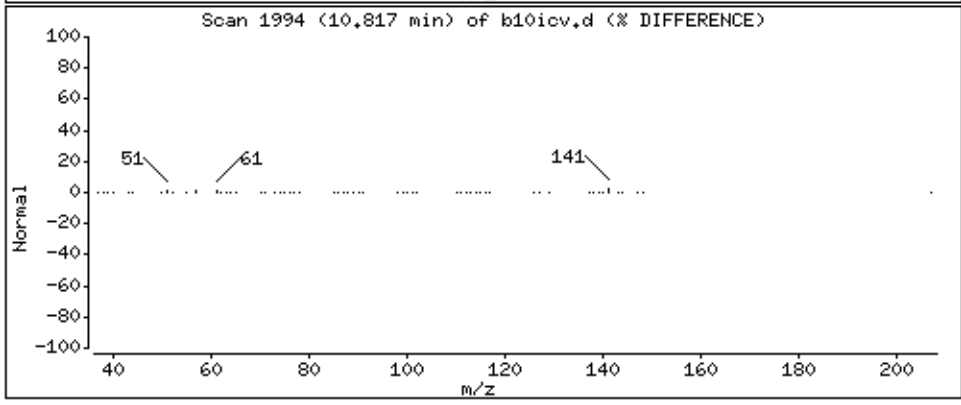
101 1-methylnaphthalene

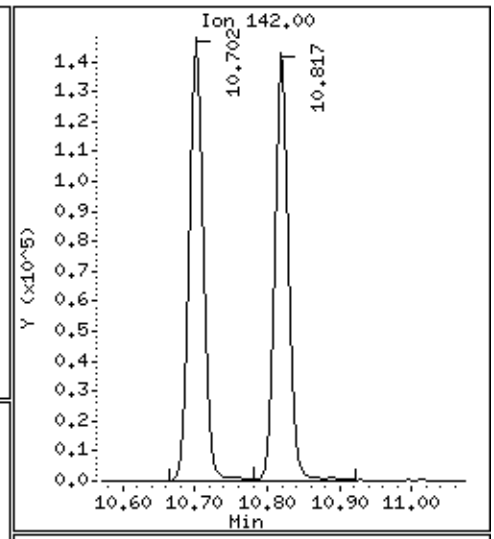
Concentration: 49.6 ppb

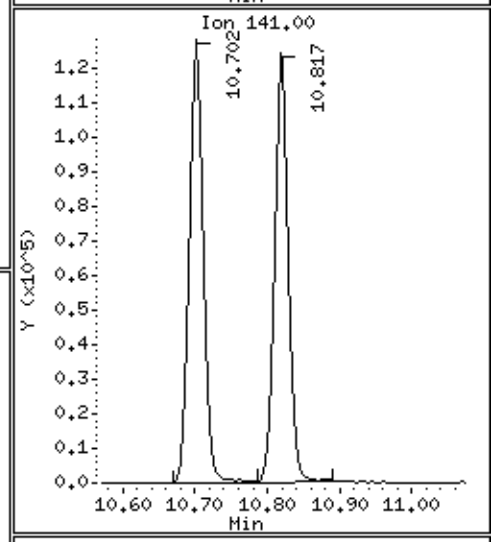


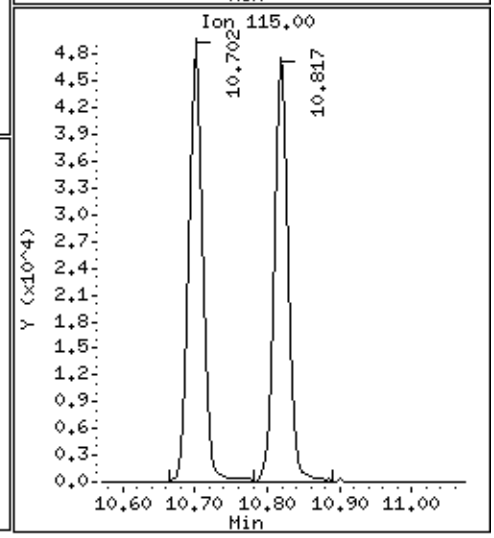












Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b/b10icv.d
Injection Date: 15-MAR-2016 23:17
Instrument: 50mv1b.i
Lab Sample ID: 8260-ICV,117048:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b01ccv.d
Lab Smp Id: 8260-CCV,117049:0 Client Smp ID: 8260-CCV,117049:0
Inj Date : 17-MAR-2016 12:15
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-ccv,117049:0
Misc Info : 87939
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.931	0.931	(0.220)	143976	50.0000	55.4	
2 Chloromethane	50	1.015	1.015	(0.240)	136438	50.0000	35.1	
3 Vinyl Chloride	62	1.062	1.062	(0.251)	146529	50.0000	49.1	
4 Bromomethane	94	1.208	1.208	(0.286)	18746	50.0000	16.0	
5 Chloroethane	64	1.255	1.255	(0.297)	96387	50.0000	62.1	
6 Trichlorofluoromethane	101	1.371	1.371	(0.324)	165594	50.0000	53.0	
7 Diethyl ether	74	1.496	1.496	(0.354)	42691	50.0000	54.8	
8 1,2-dichlorotrifluoroethane	67	1.512	1.512	(0.357)	124624	50.0000	55.6	
9 Acrolein	56	1.575	1.575	(0.372)	170200	1000.00	979	
10 1,1,2trichlorotrifluoroethane	101	1.622	1.622	(0.383)	112224	50.0000	59.5	
11 1,1-Dichloroethene	96	1.627	1.627	(0.385)	87388	50.0000	58.0	
12 Acetone	43	1.643	1.643	(0.388)	89918	250.000	231	
13 Iodomethane	142	1.716	1.716	(0.406)	61968	100.000	36.8	
14 Carbon Disulfide	76	1.763	1.763	(0.417)	279433	50.0000	51.9	
15 Methyl Acetate	43	1.810	1.810	(0.428)	52249	50.0000	48.4	
16 Acetonitrile	39	1.826	1.826	(0.431)	235081	50.0000	56.5	
17 allyl chloride	41	1.826	1.826	(0.431)	301608	100.000	105	
18 Methylene Chloride	84	1.904	1.904	(0.450)	89389	50.0000	48.1	
19 tert-Butyl Alcohol	59	1.951	1.951	(0.461)	15293	100.000	108(Q)	
20 Acrylonitrile	53	2.045	2.045	(0.483)	96794	200.000	217	
21 Methyl-tert-butyl ether	73	2.066	2.066	(0.488)	220679	50.0000	53.3	
22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	93219	50.0000	54.2	
24 n-Hexane	57	2.260	2.260	(0.534)	162912	50.0000	53.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.375	2.375	(0.561)	614107	200.000	210	
	26 1,1-Dichloroethane	63	2.385	2.385	(0.564)	177624	50.0000	53.3	
	27 Chloroprene	53	2.443	2.443	(0.577)	184003	50.0000	57.6	
	28 2-Butanone	43	2.856	2.856	(0.675)	165304	250.000	278	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	100447	50.0000	56.1	
	30 2,2-Dichloropropane	77	2.877	2.877	(0.680)	150954	50.0000	57.4	
	31 Propionitrile	54	2.924	2.924	(0.691)	9634	50.0000	51.8(Q)	
	32 Methacrylonitrile	41	3.070	3.070	(0.726)	43590	50.0000	53.6	
	33 Bromochloromethane	49	3.107	3.107	(0.734)	67322	50.0000	50.8	
	34 Tetrahydrofuran	42	3.128	3.128	(0.739)	19406	50.0000	46.6	
	35 Chloroform	83	3.217	3.217	(0.760)	173675	50.0000	54.2	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	163162	50.0000	56.5	
$	38 Dibromofluoromethane (S)	113	3.395	3.395	(0.802)	83340	50.0000	49.3	
	39 Cyclohexane	56	3.473	3.473	(0.821)	188601	50.0000	56.6	
	150 n-butyl chloride	56	3.546	3.546	(0.838)	226987	50.0000	56.3	
	40 Carbon Tetrachloride	117	3.578	3.578	(0.846)	140489	50.0000	58.6	
	41 1,1-Dichloropropene	75	3.588	3.588	(0.848)	141755	50.0000	58.5	
	42 Benzene	78	3.834	3.834	(0.906)	366299	50.0000	55.4	
	43 1,2-Dichloroethane	62	3.923	3.923	(0.927)	120205	50.0000	52.7	
	45 2,2,4-Trimethylpentane	57	4.001	4.001	(0.946)	415339	50.0000	57.5	
	44 Isobutyl alcohol	43	3.996	3.996	(0.944)	79556	50.0000	56.7	
*	46 Fluorobenzene (IS)	96	4.231	4.231	(1.000)	325479	50.0000		
	47 Trichloroethene	95	4.681	4.681	(1.106)	99202	50.0000	57.0	
	48 Methylcyclohexane	55	4.943	4.943	(1.168)	158969	50.0000	60.4	
	49 1,2-Dichloropropane	63	4.990	4.990	(1.179)	91072	50.0000	53.2	
	50 Dibromomethane	93	5.084	5.084	(1.201)	49099	50.0000	53.4	
	51 1,4-Dioxane	88	5.094	5.094	(1.204)	14237	1000.00	1050	
	52 Methyl methacrylate	69	5.100	5.100	(1.205)	45842	50.0000	55.5	
	53 Bromodichloromethane	83	5.309	5.309	(1.255)	119540	50.0000	53.0	
	54 2-Chloroethyl vinyl ether	63	5.659	5.659	(0.766)	89802	100.000	117	
	55 cis-1,3-Dichloropropene	75	5.806	5.806	(0.786)	136671	50.0000	56.9	
	56 4-Methyl-2-Pentanone	43	5.978	5.978	(0.809)	318565	250.000	271	
$	57 Toluene-d8	98	6.072	6.072	(0.822)	303478	50.0000	51.4	
	58 Toluene	91	6.146	6.146	(0.832)	392106	50.0000	54.1	
	59 trans-1,3-Dichloropropene	75	6.433	6.433	(0.871)	113824	50.0000	57.6	
	60 Ethyl Methacrylate	69	6.512	6.512	(0.881)	87761	50.0000	54.2	
	61 1,1,2-Trichloroethane	83	6.616	6.616	(0.895)	55525	50.0000	55.0	
	62 Tetrachloroethene	166	6.663	6.663	(0.902)	116718	50.0000	59.2	
	63 1,3-Dichloropropane	76	6.758	6.758	(0.914)	113273	50.0000	57.4	
	64 2-Hexanone	43	6.826	6.826	(0.924)	217056	250.000	259	
	65 Dibromochloromethane	129	6.941	6.941	(0.939)	80277	50.0000	54.9	
	66 1,2-Dibromoethane	107	7.024	7.024	(0.950)	67303	50.0000	55.9	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.390	(1.000)	227590	50.0000		
	68 Chlorobenzene	112	7.411	7.411	(1.003)	251141	50.0000	53.8	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.490	(1.013)	86072	50.0000	56.0	
	70 Ethylbenzene	106	7.495	7.495	(1.014)	137994	50.0000	53.9	
	71 m&p-Xylene	106	7.589	7.589	(1.027)	346722	100.000	108	
	72 o-Xylene	106	7.851	7.851	(1.062)	168271	50.0000	53.6	
	73 Styrene	104	7.872	7.872	(1.065)	283134	50.0000	54.4	
	74 Bromoform	173	7.992	7.992	(0.899)	53934	50.0000	52.9	
	75 Isopropylbenzene	105	8.096	8.096	(1.096)	476697	50.0000	53.9	
$	76 4-Bromofluorobenzene	95	8.206	8.206	(1.110)	110806	50.0000	53.6	
	77 Bromobenzene	77	8.285	8.285	(1.121)	158942	50.0000	53.6	
	79 1,1,2,2-Tetrachloroethane	83	8.300	8.300	(0.934)	80833	50.0000	53.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.316	8.316	(1.125)	24279	50.0000	55.6(Q)	
81	1,2,3-Trichloropropane	110	8.332	8.332	(0.938)	24239	50.0000	56.6	
82	n-Propylbenzene	91	8.353	8.353	(0.940)	579326	50.0000	56.0	
83	2-Chlorotoluene	91	8.405	8.405	(0.946)	318660	50.0000	53.9	
84	1,3,5-Trimethylbenzene	105	8.463	8.463	(0.952)	383653	50.0000	54.5	
85	4-Chlorotoluene	126	8.478	8.478	(0.954)	114913	50.0000	54.6	
86	tert-Butylbenzene	119	8.646	8.646	(0.973)	373957	50.0000	55.3	
87	1,2,4-Trimethylbenzene	105	8.677	8.677	(0.976)	387623	50.0000	53.0	
88	sec-Butylbenzene	105	8.771	8.771	(0.987)	539928	50.0000	57.1	
89	1,3-Dichlorobenzene	146	8.839	8.839	(0.995)	224995	50.0000	51.6	
90	p-Isopropyltoluene	119	8.855	8.855	(0.996)	456594	50.0000	54.6	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.886	(1.000)	126736	50.0000		
92	1,4-Dichlorobenzene	146	8.897	8.897	(1.001)	225773	50.0000	51.6	
93	n-Butylbenzene	91	9.075	9.075	(1.021)	423936	50.0000	56.1	
94	1,2-Dichlorobenzene	146	9.090	9.090	(1.023)	203920	50.0000	53.2	
95	1,2-Dibromo-3-chloropropane	155	9.509	9.509	(1.070)	13694	50.0000	56.2	
96	1,2,4-Trichlorobenzene	180	9.927	9.927	(1.117)	166310	50.0000	50.3	
97	Hexachlorobutadiene	225	9.990	9.990	(1.124)	126011	50.0000	54.8	
98	Naphthalene	128	10.068	10.068	(1.133)	321442	50.0000	49.6	
99	1,2,3-Trichlorobenzene	180	10.189	10.189	(1.147)	154279	50.0000	48.6	
100	2,methyl-naphthalene	142	10.712	10.712	(1.205)	209918	50.0000	48.3	
101	1-methylnaphthalene	142	10.832	10.832	(1.219)	191497	50.0000	48.8	

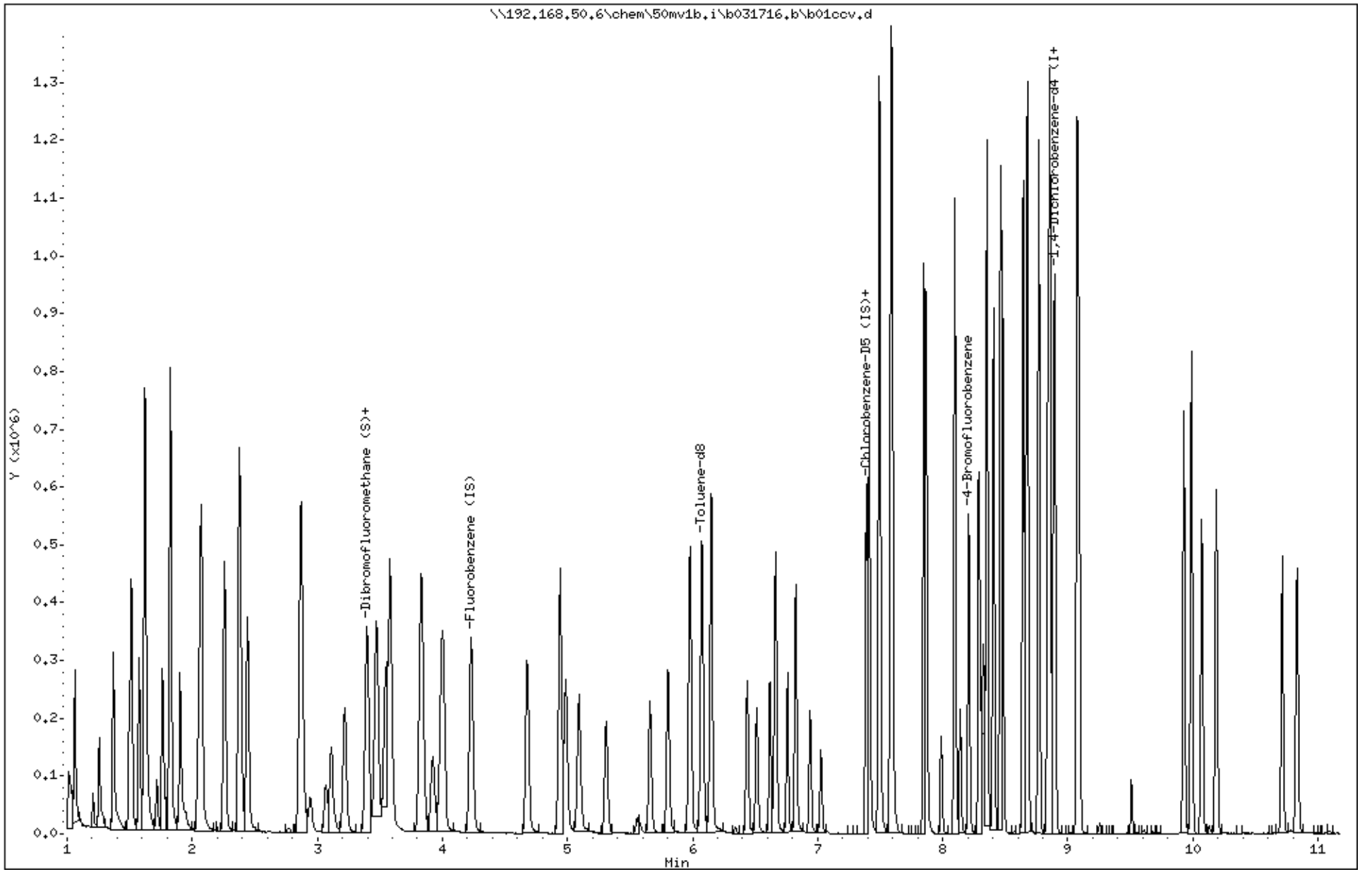
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b01ccv.d
Date : 17-MAR-2016 12:15
Client ID: 8260-CCV,117049:0
Instrument: 50mv1b.i
Sample Info: 8260-CCV,117049:0
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b01ccv.d
Injection Date: 17-MAR-2016 12:15
Instrument: 50mv1b.i
Lab Sample ID: 8260-CCV,117049:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d01ccv.d
Lab Smp Id: 8260-CCV,117049:0 Client Smp ID: 8260-CCV,117049:0
Inj Date : 18-MAR-2016 00:34
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-ccv,117049:0
Misc Info : 87939
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 74 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.932	0.932	(0.220)	133907	50.0000	50.3	
2	Chloromethane	50	1.015	1.015	(0.240)	159723	50.0000	40.1	
3	Vinyl Chloride	62	1.062	1.062	(0.251)	150403	50.0000	49.2	
4	Bromomethane	94	1.209	1.209	(0.286)	40158	50.0000	33.4	
5	Chloroethane	64	1.256	1.256	(0.297)	82607	50.0000	52.0	
6	Trichlorofluoromethane	101	1.371	1.371	(0.324)	158641	50.0000	49.6	
7	Diethyl ether	74	1.496	1.496	(0.354)	41615	50.0000	52.1	
8	1,2-dichlorotrifluoroethane	67	1.512	1.512	(0.357)	126790	50.0000	55.2	
9	Acrolein	56	1.575	1.575	(0.372)	164577	1000.00	924	
10	1,1,2trichlorotrifluoroethane	101	1.622	1.622	(0.383)	105394	50.0000	54.6	
11	1,1-Dichloroethene	96	1.627	1.627	(0.385)	82816	50.0000	53.7	
12	Acetone	43	1.643	1.643	(0.388)	93595	250.000	235	
13	Iodomethane	142	1.716	1.716	(0.406)	139795	100.000	81.0	
14	Carbon Disulfide	76	1.763	1.763	(0.417)	274757	50.0000	49.9	
15	Methyl Acetate	43	1.810	1.810	(0.428)	50727	50.0000	45.9	
16	Acetonitrile	39	1.826	1.826	(0.432)	230542	50.0000	54.1	
17	allyl chloride	41	1.826	1.826	(0.432)	300188	100.000	102	
18	Methylene Chloride	84	1.904	1.904	(0.450)	87619	50.0000	46.0	
19	tert-Butyl Alcohol	59	1.946	1.946	(0.460)	13868	100.000	96.1(Q)	
20	Acrylonitrile	53	2.046	2.046	(0.483)	98348	200.000	215	
21	Methyl-tert-butyl ether	73	2.067	2.067	(0.488)	223864	50.0000	52.8	
22	1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	92236	50.0000	52.4	
24	n-Hexane	57	2.260	2.260	(0.534)	157770	50.0000	51.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.375	2.375	(0.561)	587701	200.000	196	
	26 1,1-Dichloroethane	63	2.391	2.391	(0.565)	180272	50.0000	52.8	
	27 Chloroprene	53	2.443	2.443	(0.577)	178692	50.0000	54.6	
	28 2-Butanone	43	2.856	2.856	(0.675)	161908	250.000	266	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	99260	50.0000	54.2	
	30 2,2-Dichloropropane	77	2.877	2.877	(0.680)	137389	50.0000	51.0	
	31 Propionitrile	54	2.919	2.919	(0.690)	9295	50.0000	49.1(Q)	
	32 Methacrylonitrile	41	3.066	3.066	(0.724)	39160	50.0000	47.0	
	33 Bromochloromethane	49	3.107	3.107	(0.734)	69655	50.0000	51.3	
	34 Tetrahydrofuran	42	3.128	3.128	(0.739)	20124	50.0000	47.2	
	35 Chloroform	83	3.222	3.222	(0.761)	172382	50.0000	52.6	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	158481	50.0000	53.6	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	83668	50.0000	48.3	
	39 Cyclohexane	56	3.473	3.473	(0.821)	180269	50.0000	52.9	
	150 n-butyl chloride	56	3.541	3.541	(0.837)	222296	50.0000	53.9	
	40 Carbon Tetrachloride	117	3.573	3.573	(0.844)	137102	50.0000	55.9	
	41 1,1-Dichloropropene	75	3.589	3.589	(0.848)	134606	50.0000	54.2	
	42 Benzene	78	3.834	3.834	(0.906)	364721	50.0000	53.8	
	43 1,2-Dichloroethane	62	3.923	3.923	(0.927)	122275	50.0000	52.3	
	45 2,2,4-Trimethylpentane	57	3.996	3.996	(0.944)	403677	50.0000	54.6	
	44 Isobutyl alcohol	43	3.996	3.996	(0.944)	79252	50.0000	55.2	
*	46 Fluorobenzene (IS)	96	4.232	4.232	(1.000)	333322	50.0000		
	47 Trichloroethene	95	4.682	4.682	(1.106)	97691	50.0000	54.8	
	48 Methylcyclohexane	55	4.943	4.943	(1.168)	152919	50.0000	56.7	
	49 1,2-Dichloropropane	63	4.990	4.990	(1.179)	91504	50.0000	52.1	
	50 Dibromomethane	93	5.084	5.084	(1.201)	48863	50.0000	51.9	
	51 1,4-Dioxane	88	5.090	5.090	(1.203)	14959	1000.00	1070	
	52 Methyl methacrylate	69	5.100	5.100	(1.205)	46381	50.0000	54.8	
	53 Bromodichloromethane	83	5.309	5.309	(1.255)	121721	50.0000	52.7	
	54 2-Chloroethyl vinyl ether	63	5.660	5.660	(0.766)	88162	100.000	116	
	55 cis-1,3-Dichloropropene	75	5.801	5.801	(0.785)	132565	50.0000	55.5	
	56 4-Methyl-2-Pentanone	43	5.979	5.979	(0.809)	320280	250.000	273	
$	57 Toluene-d8	98	6.073	6.073	(0.822)	303695	50.0000	51.6	
	58 Toluene	91	6.146	6.146	(0.832)	382887	50.0000	53.1	
	59 trans-1,3-Dichloropropene	75	6.434	6.434	(0.871)	109667	50.0000	55.8	
	60 Ethyl Methacrylate	69	6.512	6.512	(0.881)	89335	50.0000	55.4	
	61 1,1,2-Trichloroethane	83	6.617	6.617	(0.895)	56107	50.0000	55.8	
	62 Tetrachloroethene	166	6.664	6.664	(0.902)	111291	50.0000	56.7	
	63 1,3-Dichloropropane	76	6.758	6.758	(0.914)	114564	50.0000	58.4	
	64 2-Hexanone	43	6.826	6.826	(0.924)	213659	250.000	256	
	65 Dibromochloromethane	129	6.941	6.941	(0.939)	80392	50.0000	55.2	
	66 1,2-Dibromoethane	107	7.025	7.025	(0.950)	65899	50.0000	55.0	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.391	(1.000)	226513	50.0000		
	68 Chlorobenzene	112	7.412	7.412	(1.003)	241905	50.0000	52.1	
	69 1,1,1,2-Tetrachloroethane	131	7.490	7.490	(1.013)	87760	50.0000	57.4	
	70 Ethylbenzene	106	7.495	7.495	(1.014)	136241	50.0000	53.4	
	71 m&p-Xylene	106	7.590	7.590	(1.027)	337388	100.000	106	
	72 o-Xylene	106	7.851	7.851	(1.062)	164981	50.0000	52.8	
	73 Styrene	104	7.867	7.867	(1.064)	279527	50.0000	54.0	
	74 Bromoform	173	7.992	7.992	(0.900)	53668	50.0000	52.7	
	75 Isopropylbenzene	105	8.097	8.097	(1.096)	457992	50.0000	52.0	
$	76 4-Bromofluorobenzene	95	8.207	8.207	(1.110)	109525	50.0000	53.3	
	77 Bromobenzene	77	8.285	8.285	(1.121)	151580	50.0000	51.4	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.301	(0.935)	78863	50.0000	51.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.317	8.317	(1.125)	20893	50.0000	48.1(Q)	
81	1,2,3-Trichloropropane	110	8.327	8.327	(0.938)	23828	50.0000	55.8	
82	n-Propylbenzene	91	8.353	8.353	(0.941)	556833	50.0000	54.0	
83	2-Chlorotoluene	91	8.405	8.405	(0.946)	309283	50.0000	52.4	
84	1,3,5-Trimethylbenzene	105	8.463	8.463	(0.953)	366862	50.0000	52.3	
85	4-Chlorotoluene	126	8.479	8.479	(0.955)	110487	50.0000	52.7	
86	tert-Butylbenzene	119	8.646	8.646	(0.974)	369595	50.0000	54.8	
87	1,2,4-Trimethylbenzene	105	8.677	8.677	(0.977)	365715	50.0000	50.1	
88	sec-Butylbenzene	105	8.766	8.766	(0.987)	525514	50.0000	55.7	
89	1,3-Dichlorobenzene	146	8.840	8.840	(0.995)	211338	50.0000	48.6	
90	p-Isopropyltoluene	119	8.855	8.855	(0.997)	434878	50.0000	52.2	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.881	8.881	(1.000)	126426	50.0000		
92	1,4-Dichlorobenzene	146	8.897	8.897	(1.002)	211902	50.0000	48.5	
93	n-Butylbenzene	91	9.075	9.075	(1.022)	388869	50.0000	51.6	
94	1,2-Dichlorobenzene	146	9.091	9.091	(1.024)	198326	50.0000	51.8	
95	1,2-Dibromo-3-chloropropane	155	9.504	9.504	(1.070)	13922	50.0000	57.3	
96	1,2,4-Trichlorobenzene	180	9.917	9.917	(1.117)	151505	50.0000	46.0	
97	Hexachlorobutadiene	225	9.980	9.980	(1.124)	118048	50.0000	51.5	
98	Naphthalene	128	10.058	10.058	(1.132)	309781	50.0000	47.9	
99	1,2,3-Trichlorobenzene	180	10.173	10.173	(1.145)	147052	50.0000	46.5	
100	2,methyl-naphthalene	142	10.702	10.702	(1.205)	193337	50.0000	44.6	
101	1-methylnaphthalene	142	10.817	10.817	(1.218)	186675	50.0000	47.7	

QC Flag Legend

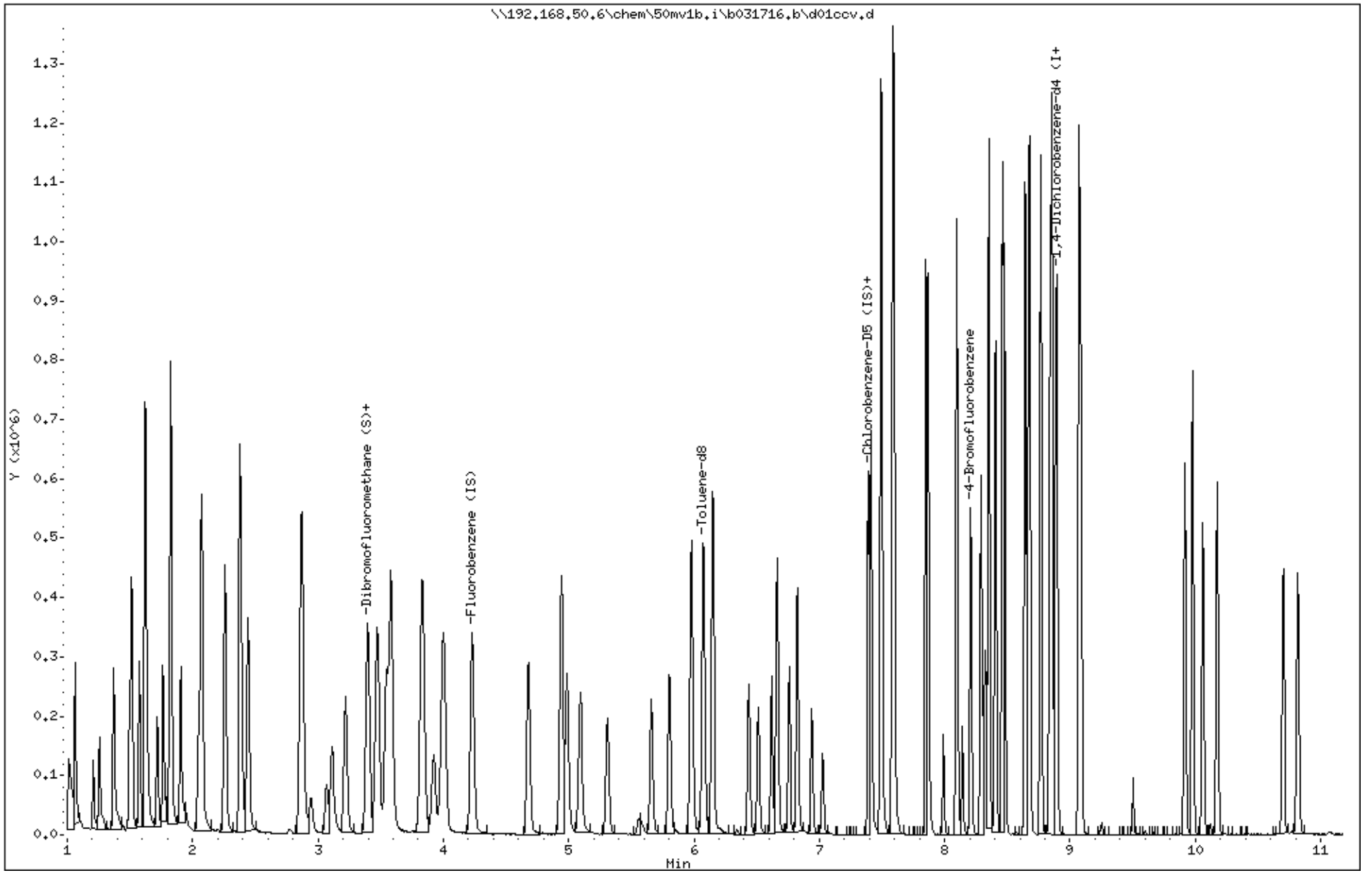
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d01ccv.d
Date : 18-MAR-2016 00:34
Client ID: 8260-CCV,117049:0
Sample Info: 8260-CCV,117049:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d01ccv.d
Injection Date: 18-MAR-2016 00:34
Instrument: 50mv1b.i
Lab Sample ID: 8260-CCV,117049:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031816.b\b01ccv.d
Lab Smp Id: 8260-CCV,117049:0 Client Smp ID: 8260-CCV,117049:0
Inj Date : 18-MAR-2016 13:08
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-ccv,117049:0
Misc Info : 87939
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031816.b\b8260_a_c.m
Meth Date : 20-Mar-2016 20:59 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.935	0.935	(0.221)	128129	50.0000	50.6	
2	Chloromethane	50	1.013	1.013	(0.240)	163788	50.0000	43.2	
3	Vinyl Chloride	62	1.060	1.060	(0.251)	152048	50.0000	52.2	
4	Bromomethane	94	1.207	1.207	(0.285)	42110	50.0000	36.8	
5	Chloroethane	64	1.254	1.254	(0.296)	80675	50.0000	53.4	
6	Trichlorofluoromethane	101	1.369	1.369	(0.324)	161611	50.0000	53.1	
7	Diethyl ether	74	1.499	1.499	(0.355)	38409	50.0000	50.6	
8	1,2-dichlorotrifluoroethane	67	1.515	1.515	(0.358)	122602	50.0000	56.1	
9	Acrolein	56	1.573	1.573	(0.372)	167516	1000.00	988	
10	1,1,2trichlorotrifluoroethane	101	1.620	1.620	(0.383)	107162	50.0000	58.3	
11	1,1-Dichloroethene	96	1.625	1.625	(0.384)	82196	50.0000	56.0	
12	Acetone	43	1.641	1.641	(0.388)	89225	250.000	235	
13	Iodomethane	142	1.719	1.719	(0.407)	139246	100.000	84.8	
14	Carbon Disulfide	76	1.766	1.766	(0.418)	267652	50.0000	51.0	
15	Methyl Acetate	43	1.813	1.813	(0.429)	51374	50.0000	48.8	
16	Acetonitrile	39	1.824	1.824	(0.431)	223203	50.0000	55.0	
17	allyl chloride	41	1.824	1.824	(0.431)	302289	100.000	108	
18	Methylene Chloride	84	1.902	1.902	(0.450)	83515	50.0000	46.1	
19	tert-Butyl Alcohol	59	1.949	1.949	(0.461)	13441	100.000	97.8(Q)	
20	Acrylonitrile	53	2.043	2.043	(0.483)	92896	200.000	214	
21	Methyl-tert-butyl ether	73	2.064	2.064	(0.488)	209335	50.0000	51.9	
22	1,2-Dichloroethene (trans)	96	2.080	2.080	(0.492)	89563	50.0000	53.5	
24	n-Hexane	57	2.258	2.258	(0.534)	154634	50.0000	52.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.378	2.378	(0.562)	584681	200.000	205	
	26 1,1-Dichloroethane	63	2.389	2.389	(0.565)	175225	50.0000	54.0	
	27 Chloroprene	53	2.441	2.441	(0.577)	175088	50.0000	56.2	
	28 2-Butanone	43	2.859	2.859	(0.676)	147722	250.000	255	
	29 1,2-Dichloroethene (cis)	96	2.870	2.870	(0.679)	94401	50.0000	54.1	
	30 2,2-Dichloropropane	77	2.875	2.875	(0.680)	144691	50.0000	56.4	
	31 Propionitrile	54	2.917	2.917	(0.690)	8882	50.0000	49.2(Q)	
	32 Methacrylonitrile	41	3.069	3.069	(0.726)	40715	50.0000	51.4	
	33 Bromochloromethane	49	3.110	3.110	(0.735)	66880	50.0000	51.8	
	34 Tetrahydrofuran	42	3.126	3.126	(0.739)	19256	50.0000	47.4	
	35 Chloroform	83	3.220	3.220	(0.761)	164481	50.0000	52.7	
	37 1,1,1-Trichloroethane	97	3.393	3.393	(0.802)	155092	50.0000	55.1	
$	38 Dibromofluoromethane (S)	113	3.398	3.398	(0.803)	80576	50.0000	48.9	
	39 Cyclohexane	56	3.471	3.471	(0.821)	177804	50.0000	54.8	
	150 n-butyl chloride	56	3.544	3.544	(0.838)	225847	50.0000	57.5	
	40 Carbon Tetrachloride	117	3.576	3.576	(0.845)	130974	50.0000	56.1	
	41 1,1-Dichloropropene	75	3.586	3.586	(0.848)	135410	50.0000	57.3	
	42 Benzene	78	3.832	3.832	(0.906)	346694	50.0000	53.8	
	43 1,2-Dichloroethane	62	3.921	3.921	(0.927)	112208	50.0000	50.4	
	45 2,2,4-Trimethylpentane	57	3.994	3.994	(0.944)	399439	50.0000	56.7	
	44 Isobutyl alcohol	43	4.000	4.000	(0.946)	75786	50.0000	55.4	
*	46 Fluorobenzene (IS)	96	4.230	4.230	(1.000)	317297	50.0000		
	47 Trichloroethene	95	4.679	4.679	(1.106)	94736	50.0000	55.9	
	48 Methylcyclohexane	55	4.941	4.941	(1.168)	149599	50.0000	58.3	
	49 1,2-Dichloropropane	63	4.988	4.988	(1.179)	89694	50.0000	53.7	
	50 Dibromomethane	93	5.087	5.087	(1.203)	45493	50.0000	50.8	
	51 1,4-Dioxane	88	5.098	5.098	(1.205)	12214	1000.00	933	
	52 Methyl methacrylate	69	5.098	5.098	(1.205)	41866	50.0000	52.0	
	53 Bromodichloromethane	83	5.307	5.307	(1.255)	116684	50.0000	53.1	
	54 2-Chloroethyl vinyl ether	63	5.657	5.657	(0.766)	81774	100.000	111	
	55 cis-1,3-Dichloropropene	75	5.804	5.804	(0.786)	129417	50.0000	56.0	
	56 4-Methyl-2-Pentanone	43	5.976	5.976	(0.809)	302390	250.000	267	
$	57 Toluene-d8	98	6.076	6.076	(0.822)	291731	50.0000	51.2	
	58 Toluene	91	6.149	6.149	(0.832)	367231	50.0000	52.6	
	59 trans-1,3-Dichloropropene	75	6.437	6.437	(0.871)	105186	50.0000	55.2	
	60 Ethyl Methacrylate	69	6.515	6.515	(0.882)	81114	50.0000	52.0	
	61 1,1,2-Trichloroethane	83	6.620	6.620	(0.896)	53293	50.0000	54.8	
	62 Tetrachloroethene	166	6.667	6.667	(0.902)	108837	50.0000	57.3	
	63 1,3-Dichloropropane	76	6.756	6.756	(0.914)	106954	50.0000	56.3	
	64 2-Hexanone	43	6.824	6.824	(0.924)	200168	250.000	248	
	65 Dibromochloromethane	129	6.944	6.944	(0.940)	76789	50.0000	54.5	
	66 1,2-Dibromoethane	107	7.028	7.028	(0.951)	62993	50.0000	54.3	
*	67 Chlorobenzene-D5 (IS)	117	7.389	7.389	(1.000)	219206	50.0000		
	68 Chlorobenzene	112	7.415	7.415	(1.004)	233515	50.0000	52.0	
	69 1,1,1,2-Tetrachloroethane	131	7.493	7.493	(1.014)	82330	50.0000	55.6	
	70 Ethylbenzene	106	7.493	7.493	(1.014)	129312	50.0000	52.4	
	71 m&p-Xylene	106	7.593	7.593	(1.028)	329326	100.000	107	
	72 o-Xylene	106	7.854	7.854	(1.063)	161591	50.0000	53.5	
	73 Styrene	104	7.870	7.870	(1.065)	269970	50.0000	53.9	
	74 Bromoform	173	7.990	7.990	(0.899)	51025	50.0000	51.8	
	75 Isopropylbenzene	105	8.095	8.095	(1.096)	448841	50.0000	52.7	
$	76 4-Bromofluorobenzene	95	8.210	8.210	(1.111)	105933	50.0000	53.2	
	77 Bromobenzene	77	8.288	8.288	(1.122)	149002	50.0000	52.2	
	79 1,1,2,2-Tetrachloroethane	83	8.299	8.299	(0.934)	74302	50.0000	50.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80	trans-1,4-Dichloro-2-butene	53	8.320	8.320	(1.126)	23138	50.0000	55.0	
81	1,2,3-Trichloropropane	110	8.330	8.330	(0.938)	21768	50.0000	52.6	
82	n-Propylbenzene	91	8.356	8.356	(0.941)	551111	50.0000	55.2	
83	2-Chlorotoluene	91	8.403	8.403	(0.946)	300511	50.0000	52.6	
84	1,3,5-Trimethylbenzene	105	8.461	8.461	(0.952)	362140	50.0000	53.3	
85	4-Chlorotoluene	126	8.482	8.482	(0.955)	108983	50.0000	53.6	
86	tert-Butylbenzene	119	8.644	8.644	(0.973)	347541	50.0000	53.2	
87	1,2,4-Trimethylbenzene	105	8.675	8.675	(0.976)	369966	50.0000	52.3	
88	sec-Butylbenzene	105	8.769	8.769	(0.987)	520580	50.0000	57.0	
89	1,3-Dichlorobenzene	146	8.843	8.843	(0.995)	212197	50.0000	50.4	
90	p-Isopropyltoluene	119	8.853	8.853	(0.996)	435497	50.0000	54.0	
* 91	1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.884	(1.000)	122428	50.0000		
92	1,4-Dichlorobenzene	146	8.900	8.900	(1.002)	214108	50.0000	50.6	
93	n-Butylbenzene	91	9.078	9.078	(1.022)	402677	50.0000	55.2	
94	1,2-Dichlorobenzene	146	9.094	9.094	(1.024)	192688	50.0000	52.0	
95	1,2-Dibromo-3-chloropropane	155	9.512	9.512	(1.071)	11942	50.0000	50.8	
96	1,2,4-Trichlorobenzene	180	9.925	9.925	(1.117)	160233	50.0000	50.2	
97	Hexachlorobutadiene	225	9.988	9.988	(1.124)	120406	50.0000	54.2	
98	Naphthalene	128	10.072	10.072	(1.134)	291894	50.0000	46.6	
99	1,2,3-Trichlorobenzene	180	10.187	10.187	(1.147)	147194	50.0000	48.0	
100	2,methyl-naphthalene	142	10.715	10.715	(1.206)	192014	50.0000	45.8	
101	1-methylnaphthalene	142	10.830	10.830	(1.219)	179429	50.0000	47.4	

QC Flag Legend

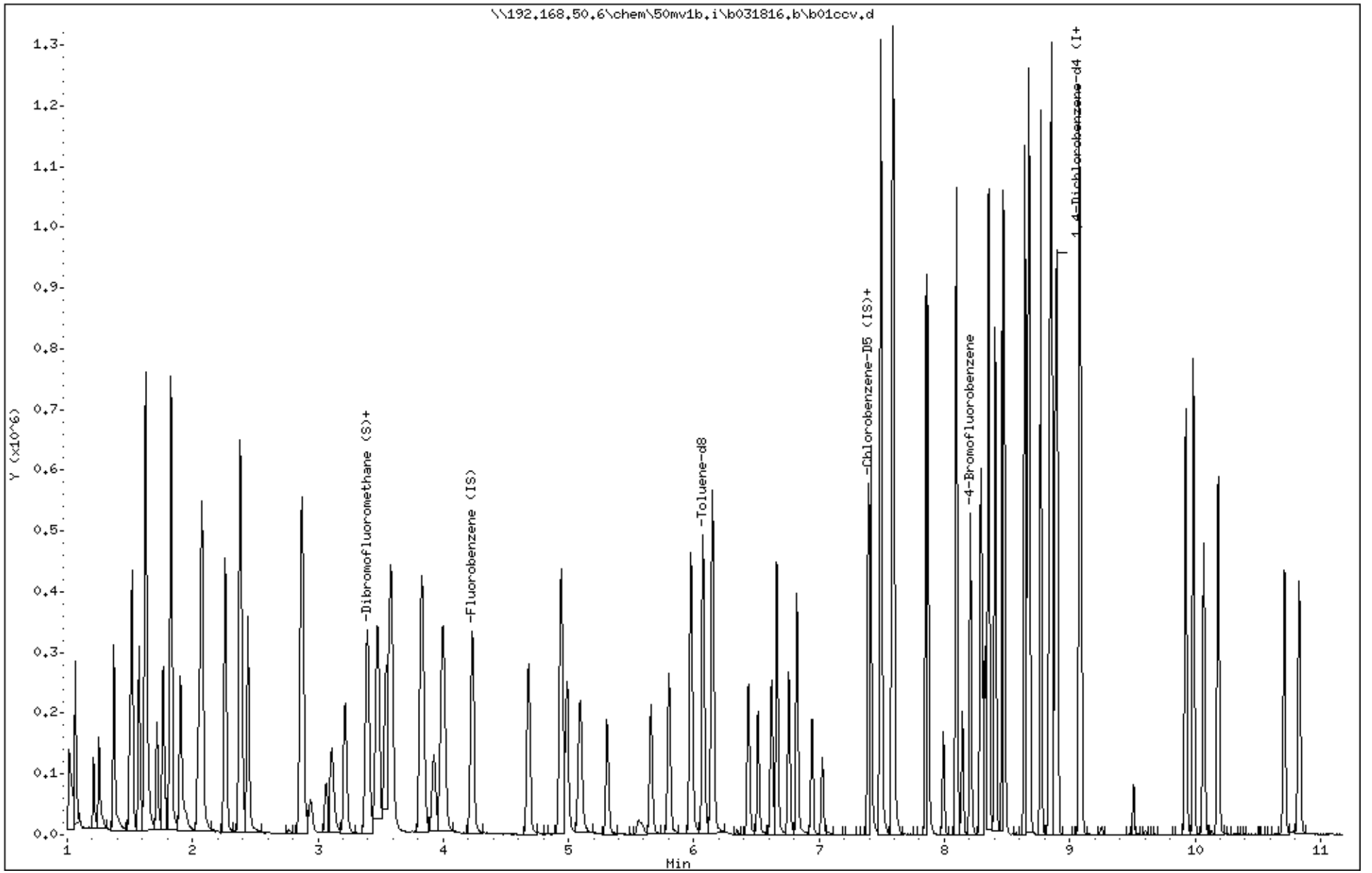
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b01ccv.d
Date : 18-MAR-2016 13:08
Client ID: 8260-CCV,117049:0
Sample Info: 8260-CCV,117049:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b/b01ccv.d
Injection Date: 18-MAR-2016 13:08
Instrument: 50mv1b.i
Lab Sample ID: 8260-CCV,117049:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b032016.b\b01ccv.d
Lab Smp Id: 8260-CCV,117049:0 Client Smp ID: 8260-CCV,117049:0
Inj Date : 20-MAR-2016 14:27
Operator : grm Inst ID: 50mv1b.i
Smp Info : 8260-ccv,117049:0
Misc Info : 87939
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b032016.b\b8260_a_c.m
Meth Date : 21-Mar-2016 11:26 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 52 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.934	0.934	(0.221)	118943	50.0000	43.2	
2	Chloromethane	50	1.012	1.012	(0.239)	172343	50.0000	41.9	
3	Vinyl Chloride	62	1.059	1.059	(0.250)	154346	50.0000	48.8	
4	Bromomethane	94	1.206	1.206	(0.285)	51252	50.0000	41.2	
5	Chloroethane	64	1.253	1.253	(0.296)	83515	50.0000	50.9	
6	Trichlorofluoromethane	101	1.368	1.368	(0.323)	164950	50.0000	49.9	
7	Diethyl ether	74	1.499	1.499	(0.354)	42951	50.0000	52.1	
8	1,2-dichlorotrifluoroethane	67	1.514	1.514	(0.358)	129273	50.0000	54.5	
9	Acrolein	56	1.572	1.572	(0.371)	192169	1000.00	1040	
10	1,1,2trichlorotrifluoroethane	101	1.619	1.619	(0.382)	114488	50.0000	57.3	
11	1,1-Dichloroethene	96	1.624	1.624	(0.384)	89321	50.0000	56.0	
12	Acetone	43	1.645	1.645	(0.389)	92462	250.000	225	
13	Iodomethane	142	1.718	1.718	(0.406)	169002	100.000	94.8	
14	Carbon Disulfide	76	1.765	1.765	(0.417)	293008	50.0000	51.4	
15	Methyl Acetate	43	1.812	1.812	(0.428)	55197	50.0000	48.3	
16	Acetonitrile	39	1.828	1.828	(0.432)	239449	50.0000	54.3	
17	allyl chloride	41	1.828	1.828	(0.432)	337475	100.000	111	
18	Methylene Chloride	84	1.901	1.901	(0.449)	88403	50.0000	44.9	
19	tert-Butyl Alcohol	59	1.948	1.948	(0.460)	16850	100.000	113	
20	Acrylonitrile	53	2.043	2.043	(0.482)	108867	200.000	231	
21	Methyl-tert-butyl ether	73	2.064	2.064	(0.487)	234868	50.0000	53.6	
22	1,2-Dichloroethene (trans)	96	2.079	2.079	(0.491)	95919	50.0000	52.7	
24	n-Hexane	57	2.257	2.257	(0.533)	171417	50.0000	53.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
	25 Vinyl Acetate	43	2.377	2.377	(0.562)	656132	200.000	212	
	26 1,1-Dichloroethane	63	2.388	2.388	(0.564)	183399	50.0000	52.0	
	27 Chloroprene	53	2.440	2.440	(0.576)	189870	50.0000	56.1	
	28 2-Butanone	43	2.859	2.859	(0.675)	184221	250.000	293	
	29 1,2-Dichloroethene (cis)	96	2.869	2.869	(0.678)	101395	50.0000	53.5	
	30 2,2-Dichloropropane	77	2.874	2.874	(0.679)	154628	50.0000	55.6	
	31 Propionitrile	54	2.921	2.921	(0.690)	10136	50.0000	51.5(Q)	
	32 Methacrylonitrile	41	3.068	3.068	(0.725)	45721	50.0000	53.1	
	33 Bromochloromethane	49	3.110	3.110	(0.734)	77158	50.0000	55.0	
	34 Tetrahydrofuran	42	3.125	3.125	(0.738)	23881	50.0000	54.1	
	35 Chloroform	83	3.219	3.219	(0.760)	174760	50.0000	51.6	
	37 1,1,1-Trichloroethane	97	3.392	3.392	(0.801)	166219	50.0000	54.4	
$	38 Dibromofluoromethane (S)	113	3.397	3.397	(0.802)	86052	50.0000	48.1	
	39 Cyclohexane	56	3.476	3.476	(0.821)	195820	50.0000	55.6	
	150 n-butyl chloride	56	3.544	3.544	(0.837)	234728	50.0000	55.0	
	40 Carbon Tetrachloride	117	3.575	3.575	(0.844)	143396	50.0000	56.6	
	41 1,1-Dichloropropene	75	3.586	3.586	(0.847)	146735	50.0000	57.2	
	42 Benzene	78	3.837	3.837	(0.906)	366530	50.0000	52.4	
	43 1,2-Dichloroethane	62	3.920	3.920	(0.926)	128359	50.0000	53.1	
	45 2,2,4-Trimethylpentane	57	3.999	3.999	(0.944)	431858	50.0000	56.5	
	44 Isobutyl alcohol	43	3.999	3.999	(0.944)	84320	50.0000	56.8	
*	46 Fluorobenzene (IS)	96	4.234	4.234	(1.000)	344521	50.0000		
	47 Trichloroethene	95	4.679	4.679	(1.105)	104517	50.0000	56.8	
	48 Methylcyclohexane	55	4.940	4.940	(1.167)	163099	50.0000	58.5	
	49 1,2-Dichloropropane	63	4.987	4.987	(1.178)	96716	50.0000	53.3	
	50 Dibromomethane	93	5.087	5.087	(1.201)	51876	50.0000	53.3	
	51 1,4-Dioxane	88	5.087	5.087	(1.201)	16841	1000.00	1160	
	52 Methyl methacrylate	69	5.097	5.097	(1.204)	51561	50.0000	59.0	
	53 Bromodichloromethane	83	5.311	5.311	(1.254)	128604	50.0000	53.9	
	54 2-Chloroethyl vinyl ether	63	5.657	5.657	(0.765)	97326	100.000	122	
	55 cis-1,3-Dichloropropene	75	5.803	5.803	(0.785)	141376	50.0000	56.8	
	56 4-Methyl-2-Pentanone	43	5.976	5.976	(0.808)	373897	250.000	306	
$	57 Toluene-d8	98	6.075	6.075	(0.822)	318071	50.0000	51.9	
	58 Toluene	91	6.148	6.148	(0.832)	397284	50.0000	52.8	
	59 trans-1,3-Dichloropropene	75	6.436	6.436	(0.871)	123275	50.0000	60.2	
	60 Ethyl Methacrylate	69	6.514	6.514	(0.881)	98554	50.0000	58.7	
	61 1,1,2-Trichloroethane	83	6.619	6.619	(0.895)	61641	50.0000	58.9	
	62 Tetrachloroethene	166	6.666	6.666	(0.902)	118629	50.0000	58.0	
	63 1,3-Dichloropropane	76	6.760	6.760	(0.914)	119206	50.0000	58.3	
	64 2-Hexanone	43	6.823	6.823	(0.923)	255896	250.000	295	
	65 Dibromochloromethane	129	6.943	6.943	(0.939)	86429	50.0000	57.0	
	66 1,2-Dibromoethane	107	7.027	7.027	(0.950)	72351	50.0000	57.9	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.393	(1.000)	235995	50.0000		
	68 Chlorobenzene	112	7.414	7.414	(1.003)	254340	50.0000	52.6	
	69 1,1,1,2-Tetrachloroethane	131	7.492	7.492	(1.013)	90201	50.0000	56.6	
	70 Ethylbenzene	106	7.492	7.492	(1.013)	140795	50.0000	53.0	
	71 m&p-Xylene	106	7.592	7.592	(1.027)	355278	100.000	107	
	72 o-Xylene	106	7.853	7.853	(1.062)	171331	50.0000	52.6	
	73 Styrene	104	7.869	7.869	(1.064)	290772	50.0000	53.9	
	74 Bromoform	173	7.989	7.989	(0.899)	60734	50.0000	57.6	
	75 Isopropylbenzene	105	8.094	8.094	(1.095)	481579	50.0000	52.5	
$	76 4-Bromofluorobenzene	95	8.209	8.209	(1.110)	115387	50.0000	53.9	
	77 Bromobenzene	77	8.287	8.287	(1.121)	161343	50.0000	52.5	
	79 1,1,2,2-Tetrachloroethane	83	8.303	8.303	(0.935)	88162	50.0000	56.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	REVIEW C
80 trans-1,4-Dichloro-2-butene	53	8.319	8.319	(1.125)	27896	50.0000	61.6	
81 1,2,3-Trichloropropane	110	8.329	8.329	(0.938)	26399	50.0000	59.6	
82 n-Propylbenzene	91	8.355	8.355	(0.941)	584323	50.0000	54.6	
83 2-Chlorotoluene	91	8.402	8.402	(0.946)	323713	50.0000	52.9	
84 1,3,5-Trimethylbenzene	105	8.465	8.465	(0.953)	387948	50.0000	53.3	
85 4-Chlorotoluene	126	8.481	8.481	(0.955)	117278	50.0000	53.9	
86 tert-Butylbenzene	119	8.643	8.643	(0.973)	368651	50.0000	52.7	
87 1,2,4-Trimethylbenzene	105	8.680	8.680	(0.977)	393590	50.0000	52.0	
88 sec-Butylbenzene	105	8.769	8.769	(0.987)	548913	50.0000	56.1	
89 1,3-Dichlorobenzene	146	8.842	8.842	(0.995)	227294	50.0000	50.4	
90 p-Isopropyltoluene	119	8.852	8.852	(0.996)	457457	50.0000	52.9	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.884	(1.000)	131078	50.0000		
92 1,4-Dichlorobenzene	146	8.899	8.899	(1.002)	227642	50.0000	50.3	
93 n-Butylbenzene	91	9.072	9.072	(1.021)	430389	50.0000	55.1	
94 1,2-Dichlorobenzene	146	9.088	9.088	(1.023)	209717	50.0000	52.9	
95 1,2-Dibromo-3-chloropropane	155	9.501	9.501	(1.069)	15422	50.0000	61.2	
96 1,2,4-Trichlorobenzene	180	9.914	9.914	(1.116)	177843	50.0000	52.0	
97 Hexachlorobutadiene	225	9.977	9.977	(1.123)	130640	50.0000	55.0	
98 Naphthalene	128	10.055	10.055	(1.132)	344489	50.0000	51.4	
99 1,2,3-Trichlorobenzene	180	10.170	10.170	(1.145)	165086	50.0000	50.3	
100 2,methyl-naphthalene	142	10.693	10.693	(1.204)	225464	50.0000	50.2	
101 1-methylnaphthalene	142	10.814	10.814	(1.217)	210544	50.0000	51.9	

QC Flag Legend

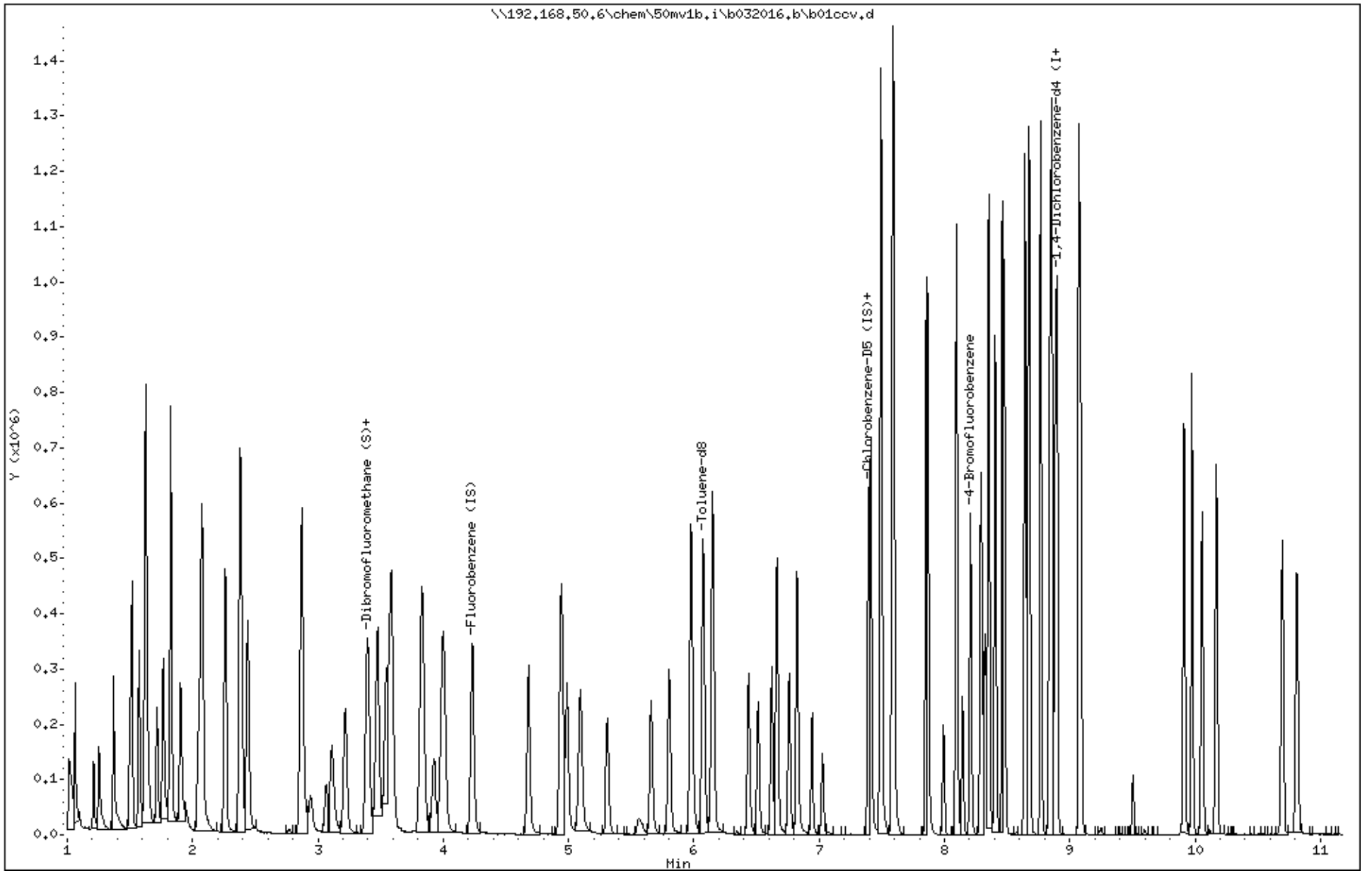
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b01ccv.d
Date : 20-MAR-2016 14:27
Client ID: 8260-CCV,117049:0
Sample Info: 8260-CCV,117049:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b/b01ccv.d
Injection Date: 20-MAR-2016 14:27
Instrument: 50mv1b.i
Lab Sample ID: 8260-CCV,117049:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a00bfb.d

Date : 15-MAR-2016 17:09

Client ID: 8260-TUNE

Instrument: 50mv1a.i

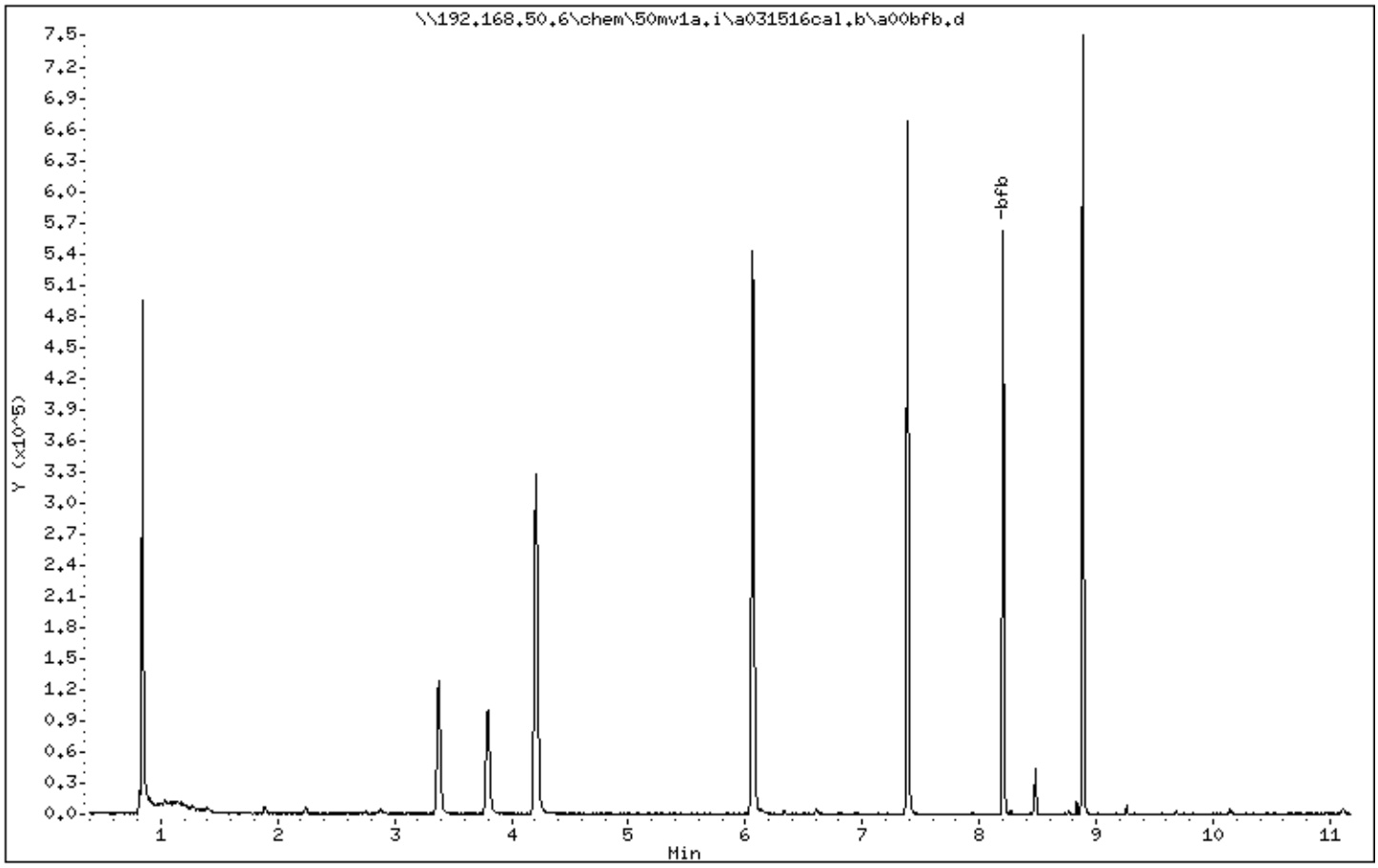
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\a00bfb.d

Date : 15-MAR-2016 17:09

Client ID: 8260-TUNE

Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

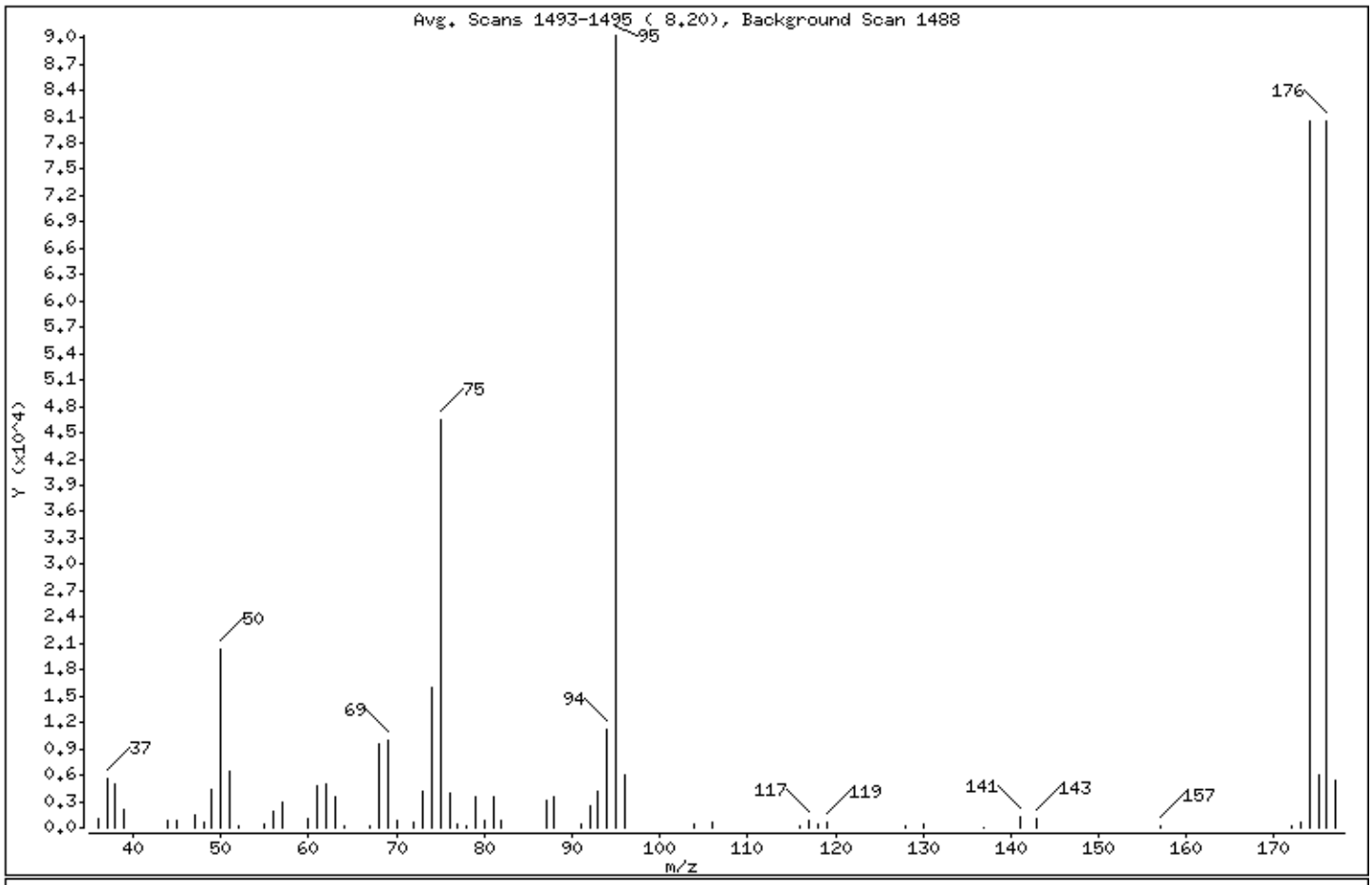
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.57
75	30.00 - 60.00% of mass 95	51.56
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.74 (0.83)
174	50.00 - 100.00% of mass 95	89.10
175	5.00 - 9.00% of mass 174	6.74 (7.57)
176	95.00 - 101.00% of mass 174	89.27 (100.19)
177	5.00 - 9.00% of mass 176	5.88 (6.59)

Date : 15-MAR-2016 17:09

Client ID: 8260-TUNE Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1493-1495 (8.20), Background Scan 1488
Location of Maximum: 95.00
Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	968	61.00	4775	80.00	909	119.00	582
37.00	5529	62.00	5043	81.00	3616	128.00	265
38.00	4969	63.00	3465	82.00	870	130.00	317
39.00	2052	64.00	248	87.00	3191	137.00	102
44.00	912	67.00	310	88.00	3604	141.00	1195
45.00	919	68.00	9440	91.00	343	143.00	1127
47.00	1465	69.00	9926	92.00	2461	157.00	107
48.00	651	70.00	792	93.00	4058	172.00	231
49.00	4448	72.00	524	94.00	11185	173.00	669
50.00	20368	73.00	4094	95.00	90248	174.00	80408
51.00	6386	74.00	16013	96.00	6010	175.00	6087
52.00	290	75.00	46536	104.00	411	176.00	80560
55.00	405	76.00	3906	106.00	527	177.00	5306
56.00	1797	77.00	434	116.00	283		
57.00	2885	78.00	209	117.00	766		
60.00	1039	79.00	3472	118.00	416		

Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c00bfb.d Page 1

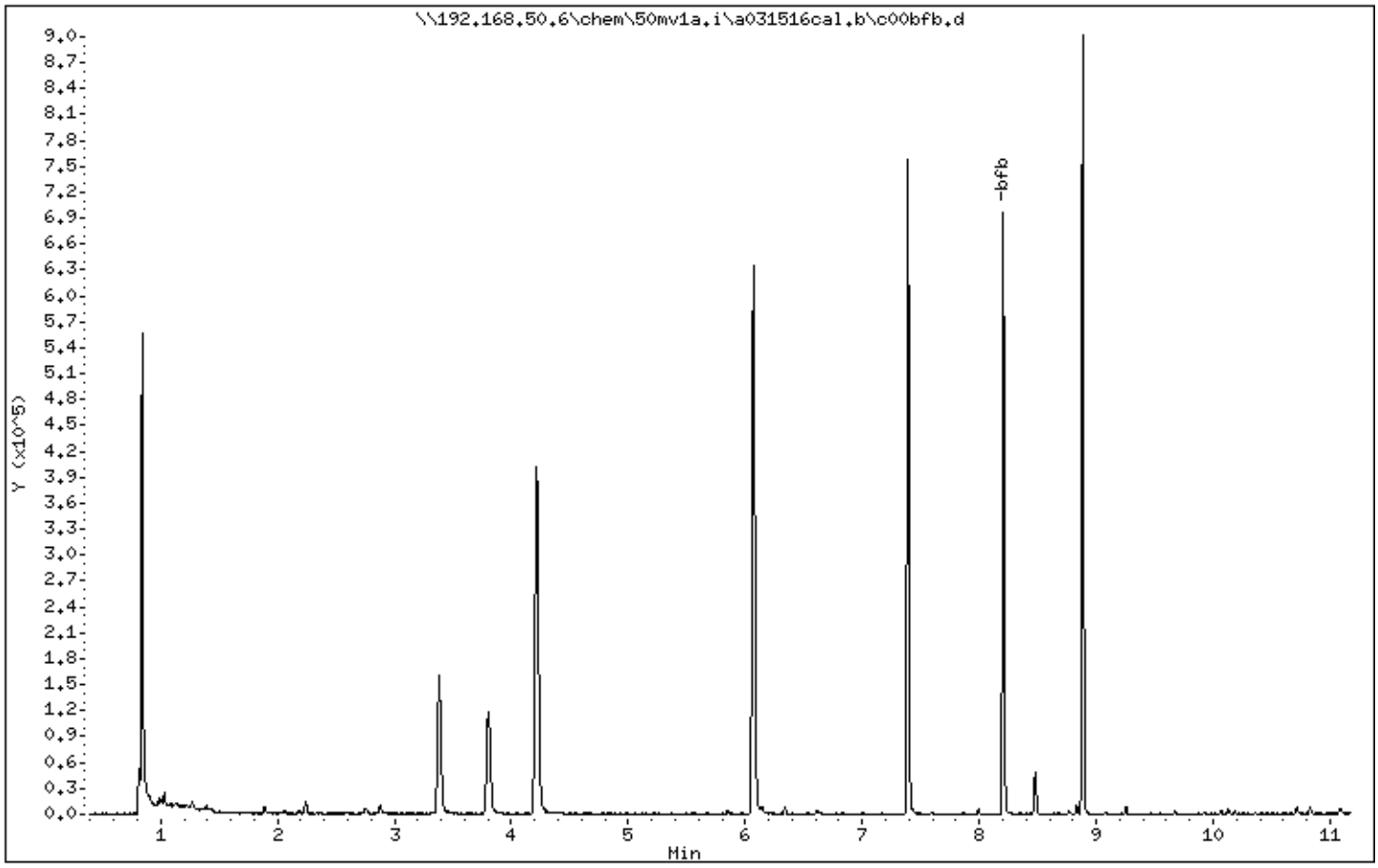
Date : 15-MAR-2016 23:34

Client ID: 8260-TUNE Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1a.i\a031516cal.b\c00bfb.d

Date : 15-MAR-2016 23:34

Client ID: 8260-TUNE

Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

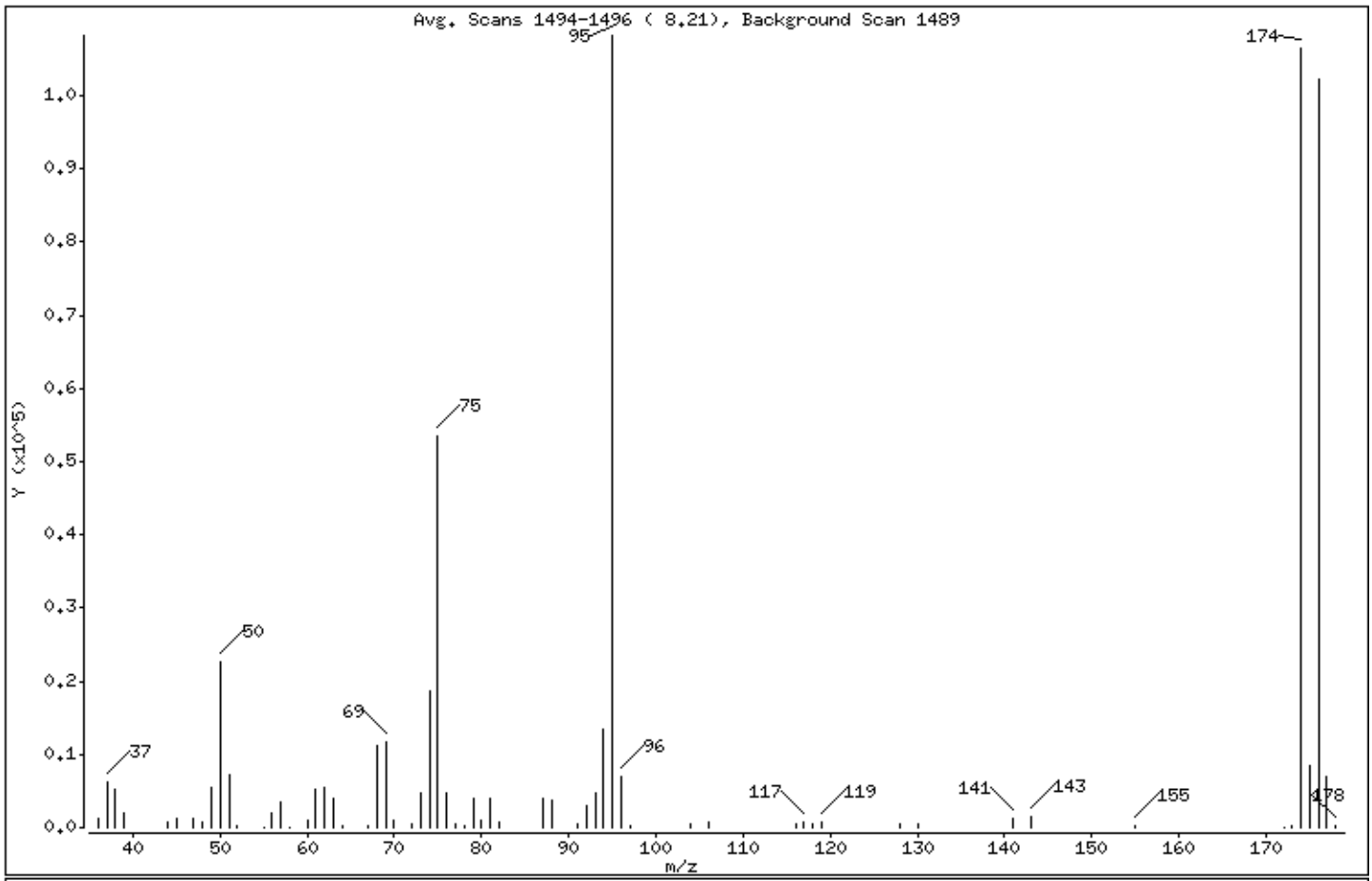
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.93
75	30.00 - 60.00% of mass 95	49.49
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.27 (0.27)
174	50.00 - 100.00% of mass 95	98.33
175	5.00 - 9.00% of mass 174	7.75 (7.88)
176	95.00 - 101.00% of mass 174	94.52 (96.13)
177	5.00 - 9.00% of mass 176	6.40 (6.77)

Date : 15-MAR-2016 23:34

Client ID: 8260-TUNE Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00

Data File: c00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1489
Location of Maximum: 95.00
Number of points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1189	60.00	1027	79.00	4018	117.00	860
37.00	6230	61.00	5191	80.00	1113	118.00	437
38.00	5242	62.00	5479	81.00	4027	119.00	635
39.00	2016	63.00	3922	82.00	857	128.00	512
44.00	781	64.00	225	87.00	4089	130.00	464
45.00	1173	67.00	253	88.00	3821	141.00	1330
47.00	1190	68.00	11187	91.00	596	143.00	1403
48.00	845	69.00	11601	92.00	3065	155.00	139
49.00	5385	70.00	890	93.00	4767	172.00	102
50.00	22640	72.00	482	94.00	13385	173.00	287
51.00	7092	73.00	4721	95.00	108184	174.00	106376
52.00	237	74.00	18576	96.00	6999	175.00	8386
55.00	100	75.00	53536	97.00	251	176.00	102256
56.00	1986	76.00	4829	104.00	591	177.00	6920
57.00	3526	77.00	569	106.00	724	178.00	220
58.00	109	78.00	317	116.00	535		

Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a00bfb.d

Date : 20-MAR-2016 13:34

Client ID: 8260-TUNE

Instrument: 50mv1a.i

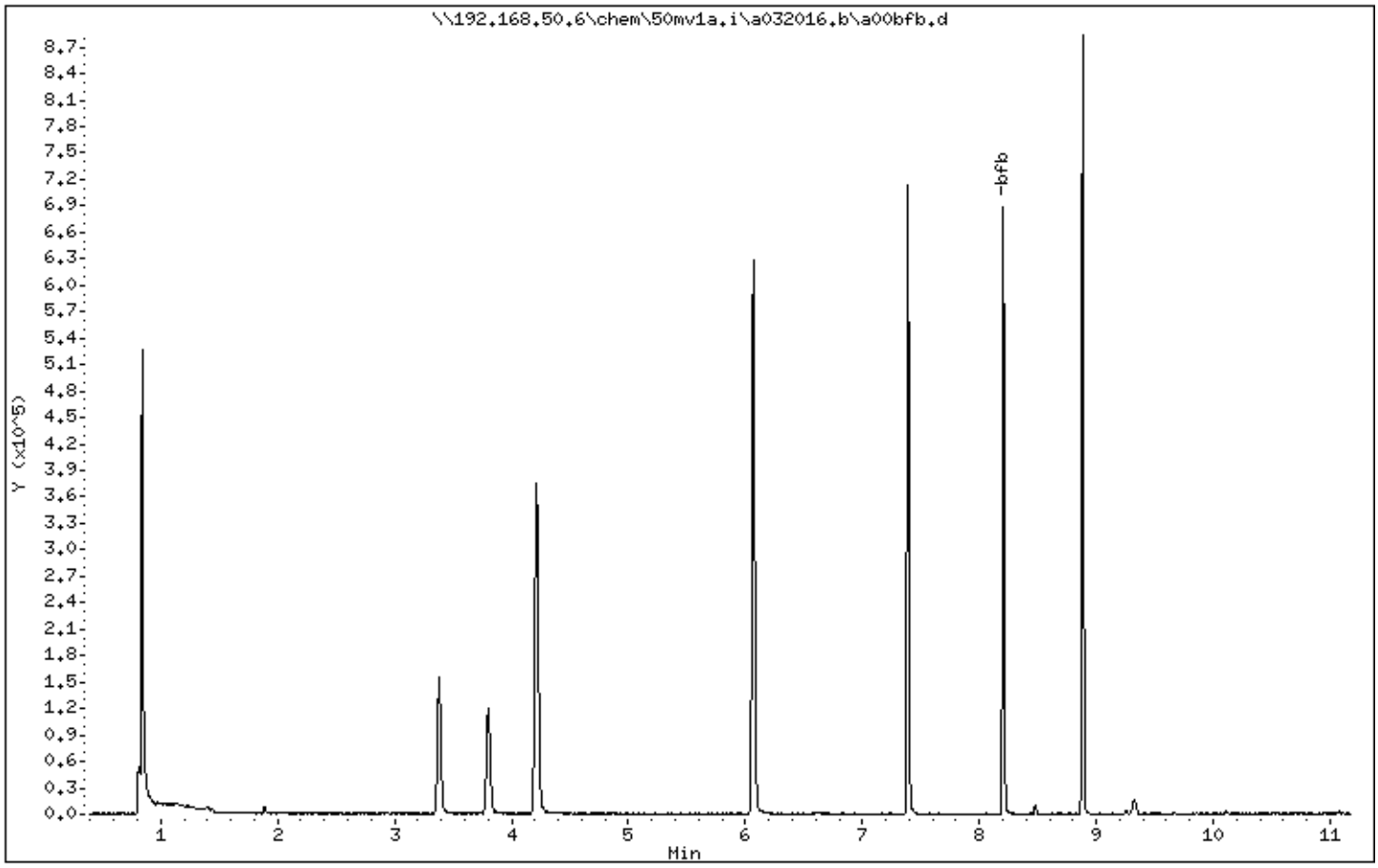
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a00bfb.d

Date : 20-MAR-2016 13:34

Client ID: 8260-TUNE

Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

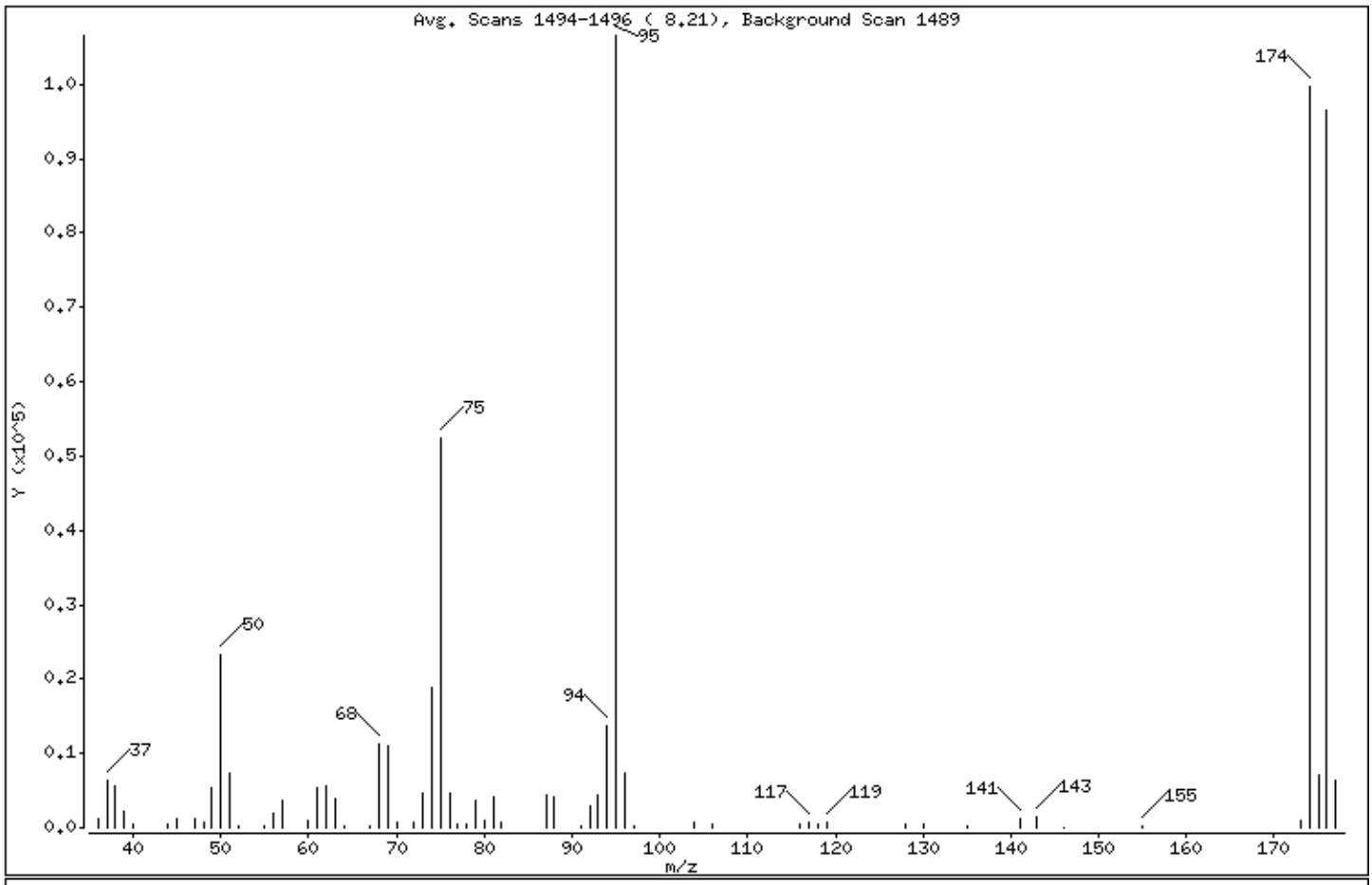
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.81
75	30.00 - 60.00% of mass 95	49.25
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.96 (1.02)
174	50.00 - 100.00% of mass 95	93.54
175	5.00 - 9.00% of mass 174	6.69 (7.15)
176	95.00 - 101.00% of mass 174	90.48 (96.73)
177	5.00 - 9.00% of mass 176	5.95 (6.58)

Data File: \\192.168.50.6\chem\50mv1a.i\a032016.b\a00bfb.d

Date : 20-MAR-2016 13:34

Client ID: 8260-TUNE

Instrument: 50mv1a.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1489
Location of Maximum: 95.00
Number of points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1138	60.00	1077	79.00	3785	117.00	697
37.00	6388	61.00	5397	80.00	1031	118.00	475
38.00	5649	62.00	5600	81.00	4230	119.00	781
39.00	2092	63.00	3799	82.00	800	128.00	468
40.00	390	64.00	251	87.00	4344	130.00	398
44.00	525	67.00	309	88.00	4154	135.00	146
45.00	1236	68.00	11223	91.00	365	141.00	1287
47.00	1310	69.00	11000	92.00	2928	143.00	1351
48.00	736	70.00	793	93.00	4427	146.00	100
49.00	5358	72.00	633	94.00	13835	155.00	205
50.00	23240	73.00	4712	95.00	106568	173.00	1020
51.00	7352	74.00	18776	96.00	7238	174.00	99680
52.00	267	75.00	52480	97.00	140	175.00	7130
55.00	244	76.00	4651	104.00	692	176.00	96424
56.00	1879	77.00	594	106.00	577	177.00	6345
57.00	3634	78.00	386	116.00	413		

Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b00bfb.d

Date : 15-MAR-2016 17:27

Client ID: 8260-TUNE

Instrument: 50mv1b.i

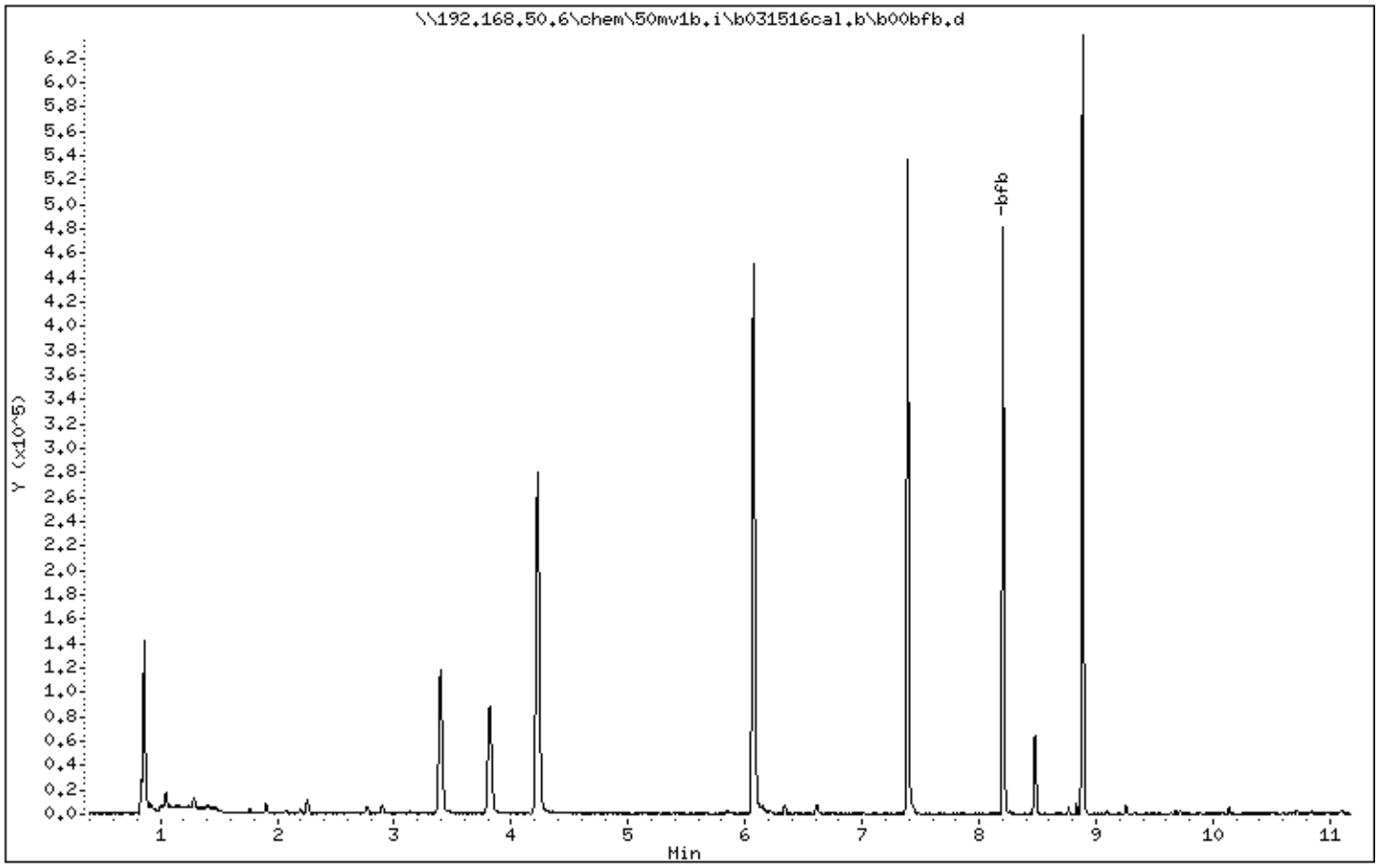
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1b.i\b031516cal.b\b00bfb.d

Date : 15-MAR-2016 17:27

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

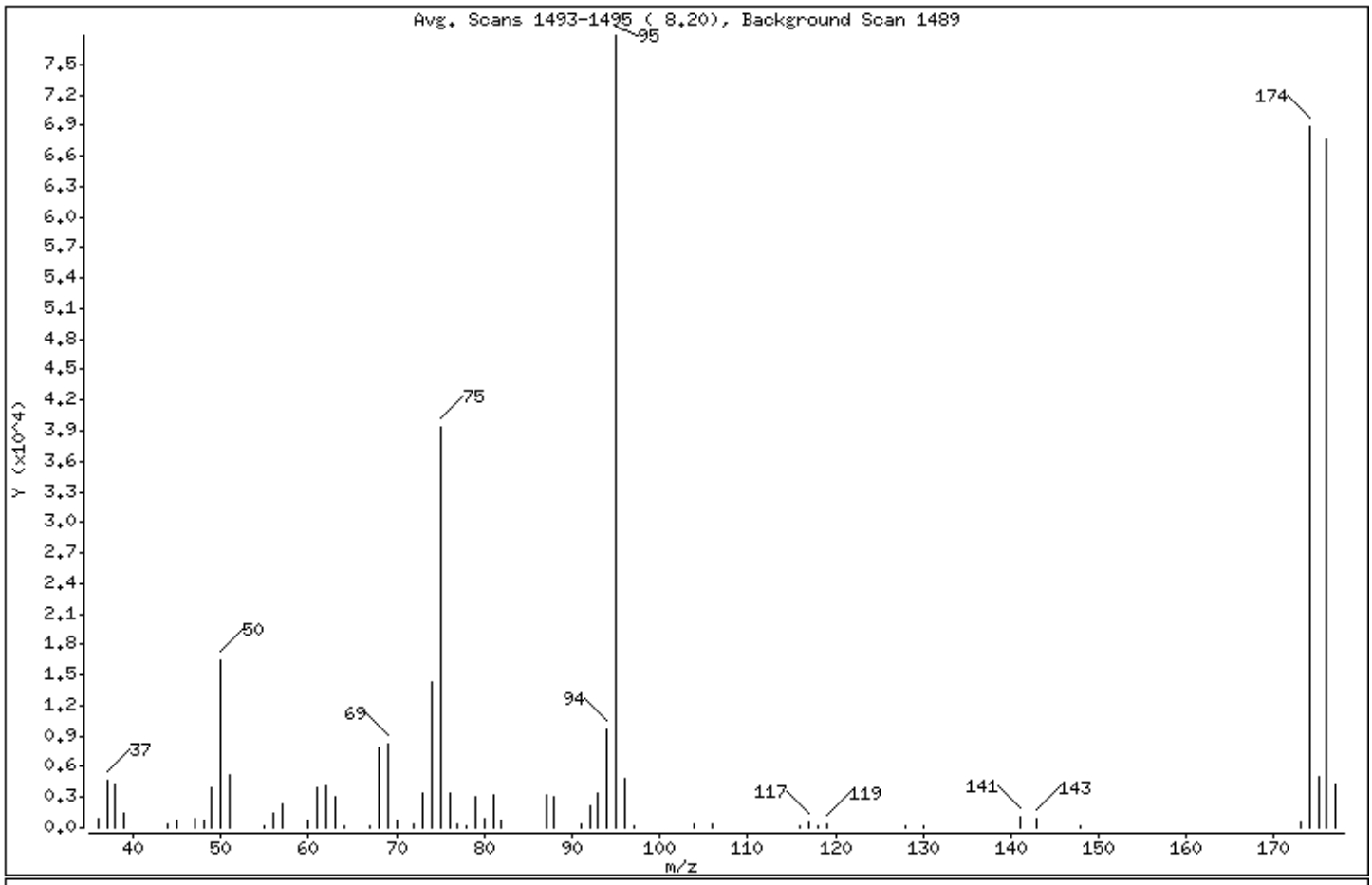
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.15
75	30.00 - 60.00% of mass 95	50.59
96	5.00 - 9.00% of mass 95	6.28
173	Less than 2.00% of mass 174	0.71 (0.80)
174	50.00 - 100.00% of mass 95	88.56
175	5.00 - 9.00% of mass 174	6.48 (7.32)
176	95.00 - 101.00% of mass 174	86.97 (98.21)
177	5.00 - 9.00% of mass 176	5.57 (6.40)

Date : 15-MAR-2016 17:27

Client ID: 8260-TUNE Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1493-1495 (8.20), Background Scan 1489
Location of Maximum: 95.00
Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	823	61.00	4006	79.00	2993	116.00	233
37.00	4730	62.00	4120	80.00	812	117.00	527
38.00	4259	63.00	2957	81.00	3258	118.00	262
39.00	1419	64.00	146	82.00	734	119.00	414
44.00	369	67.00	113	87.00	3294	128.00	227
45.00	733	68.00	7920	88.00	3011	130.00	234
47.00	938	69.00	8230	91.00	419	141.00	1031
48.00	665	70.00	703	92.00	2157	143.00	966
49.00	3914	72.00	421	93.00	3394	148.00	103
50.00	16456	73.00	3392	94.00	9664	173.00	551
51.00	5151	74.00	14224	95.00	77816	174.00	68912
55.00	201	75.00	39368	96.00	4889	175.00	5042
56.00	1464	76.00	3476	97.00	110	176.00	67680
57.00	2357	77.00	305	104.00	350	177.00	4332
60.00	761	78.00	171	106.00	422		

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b00bfb.d

Date : 17-MAR-2016 11:40

Client ID: 8260-TUNE

Instrument: 50mv1b.i

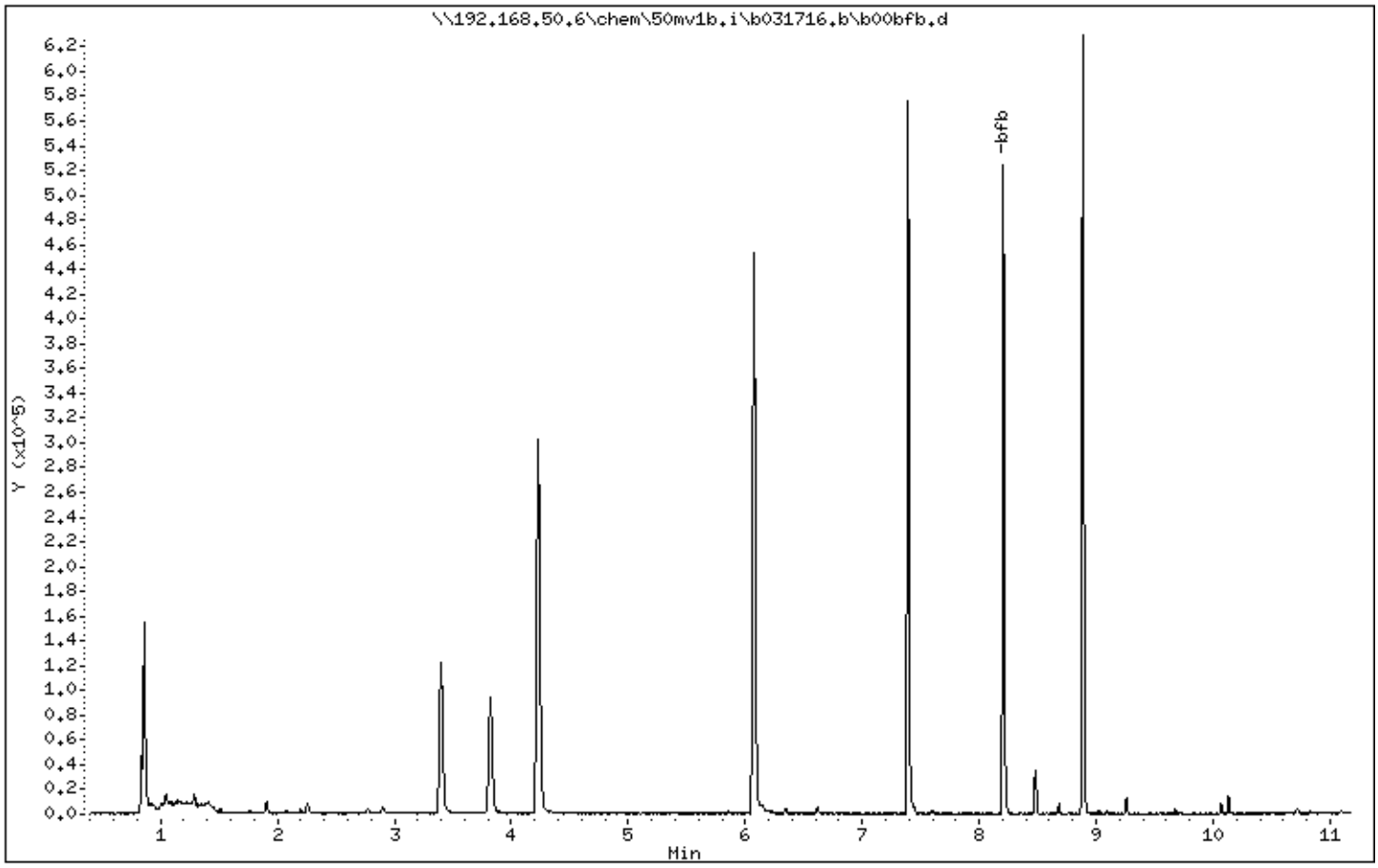
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b00bfb.d

Date : 17-MAR-2016 11:40

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

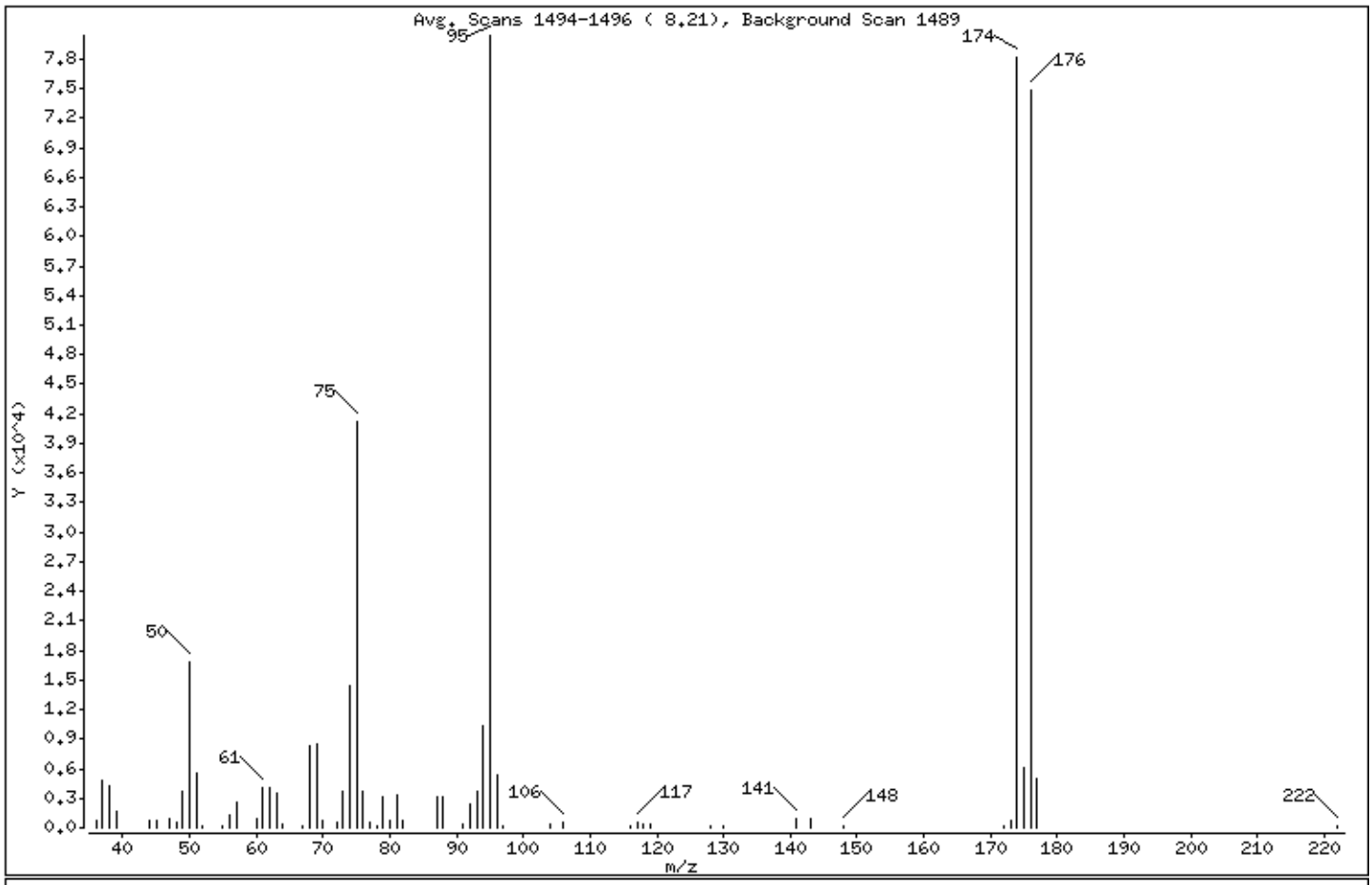
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.84
75	30.00 - 60.00% of mass 95	51.30
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.93 (0.96)
174	50.00 - 100.00% of mass 95	97.27
175	5.00 - 9.00% of mass 174	7.51 (7.72)
176	95.00 - 101.00% of mass 174	93.20 (95.82)
177	5.00 - 9.00% of mass 176	6.18 (6.63)

Date : 17-MAR-2016 11:40

Client ID: 8260-TUNE Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0 Operator: grm

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1489
Location of Maximum: 95.00
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	811	61.00	4077	80.00	820	118.00	338
37.00	4732	62.00	4004	81.00	3303	119.00	427
38.00	4312	63.00	3432	82.00	755	128.00	189
39.00	1633	64.00	347	87.00	3129	130.00	103
44.00	728	67.00	225	88.00	3130	141.00	983
45.00	771	68.00	8373	91.00	305	143.00	882
47.00	996	69.00	8576	92.00	2374	148.00	130
48.00	505	70.00	721	93.00	3679	172.00	107
49.00	3750	72.00	462	94.00	10381	173.00	751
50.00	16752	73.00	3708	95.00	80376	174.00	78184
51.00	5511	74.00	14380	96.00	5352	175.00	6039
52.00	148	75.00	41232	97.00	108	176.00	74912
55.00	129	76.00	3646	104.00	315	177.00	4966
56.00	1324	77.00	467	106.00	465	222.00	237
57.00	2586	78.00	264	116.00	262		
60.00	875	79.00	3185	117.00	559		

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d00bfb.d

Date : 17-MAR-2016 23:58

Client ID: 8260-TUNE

Instrument: 50mv1b.i

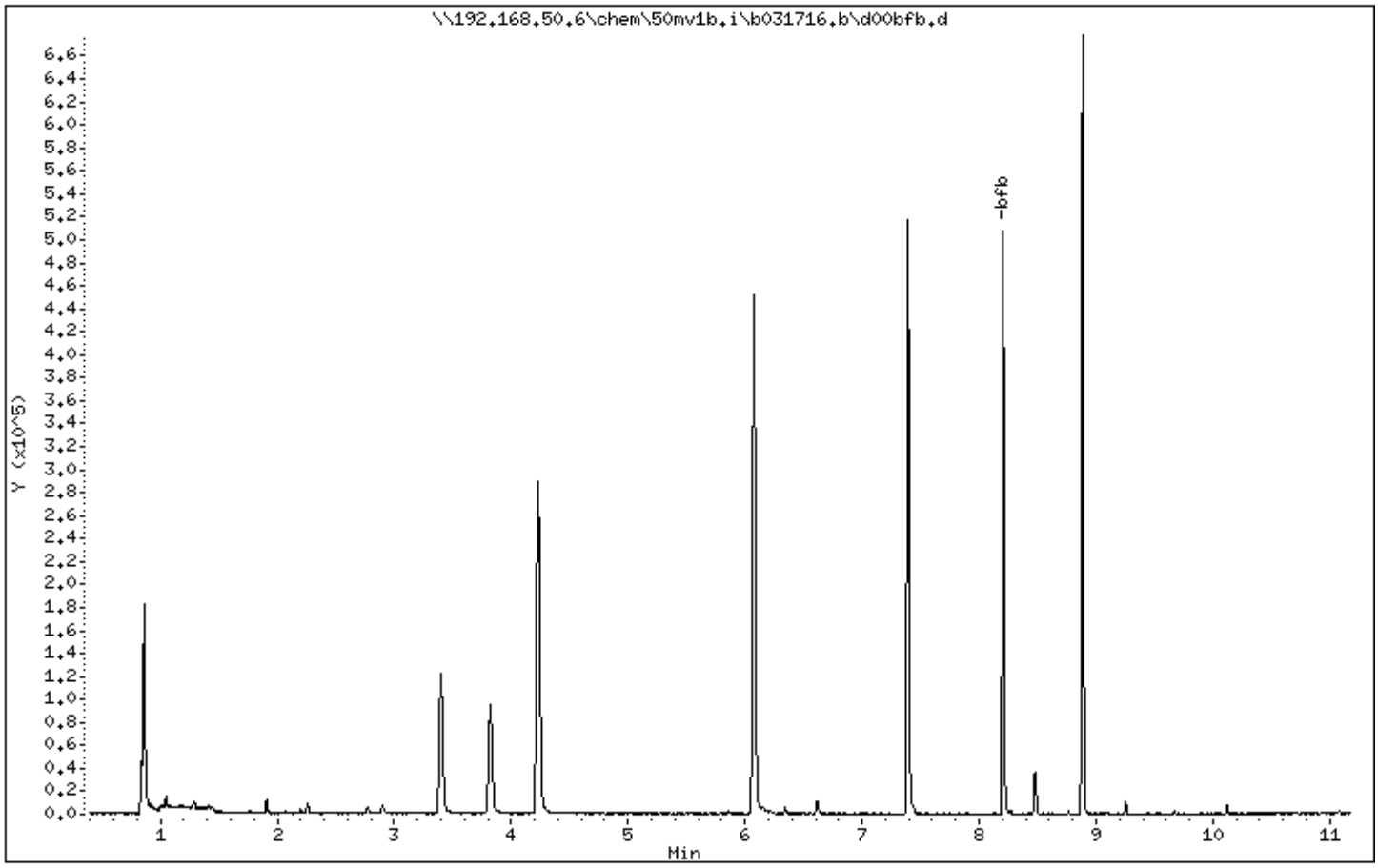
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d00bfb.d

Date : 17-MAR-2016 23:58

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

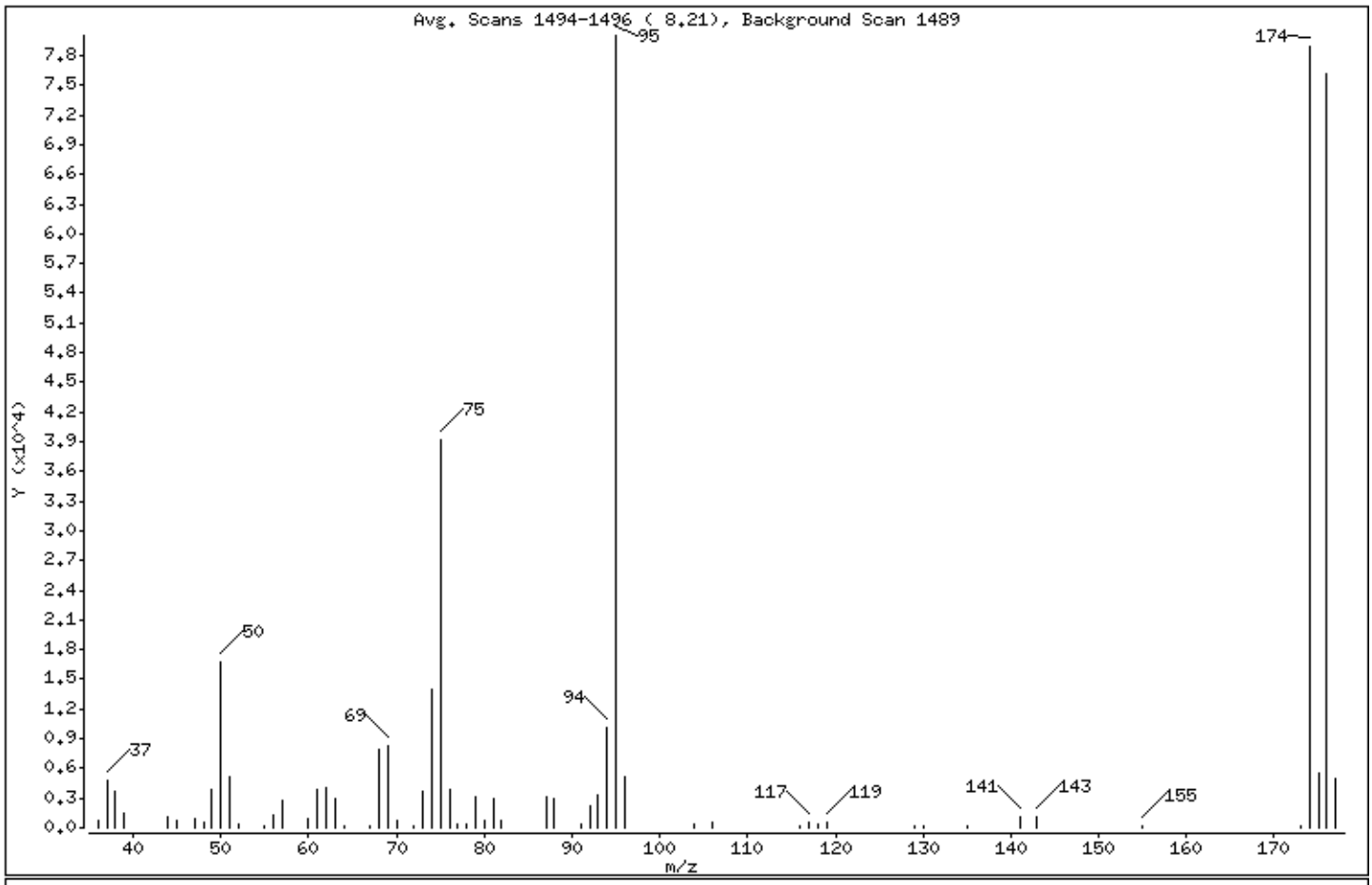
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.91
75	30.00 - 60.00% of mass 95	49.06
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.31 (0.32)
174	50.00 - 100.00% of mass 95	98.53
175	5.00 - 9.00% of mass 174	6.97 (7.07)
176	95.00 - 101.00% of mass 174	95.17 (96.59)
177	5.00 - 9.00% of mass 176	6.31 (6.63)

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d00bfb.d

Date : 17-MAR-2016 23:58

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

Data File: d00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1489
Location of Maximum: 95.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	818	61.00	3783	80.00	739	119.00	563
37.00	4805	62.00	4050	81.00	2916	129.00	103
38.00	3716	63.00	2924	82.00	670	130.00	143
39.00	1541	64.00	211	87.00	3071	135.00	103
44.00	1051	67.00	129	88.00	2972	141.00	1115
45.00	758	68.00	7996	91.00	298	143.00	1129
47.00	871	69.00	8189	92.00	2254	155.00	129
48.00	567	70.00	662	93.00	3391	173.00	249
49.00	3773	72.00	247	94.00	10064	174.00	78856
50.00	16736	73.00	3646	95.00	80032	175.00	5575
51.00	5156	74.00	14036	96.00	5203	176.00	76168
52.00	283	75.00	39264	104.00	449	177.00	5053
55.00	247	76.00	3835	106.00	477		
56.00	1287	77.00	353	116.00	263		
57.00	2709	78.00	417	117.00	619		
60.00	895	79.00	3189	118.00	423		

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b00bfb.d

Date : 18-MAR-2016 12:33

Client ID: 8260-TUNE

Instrument: 50mv1b.i

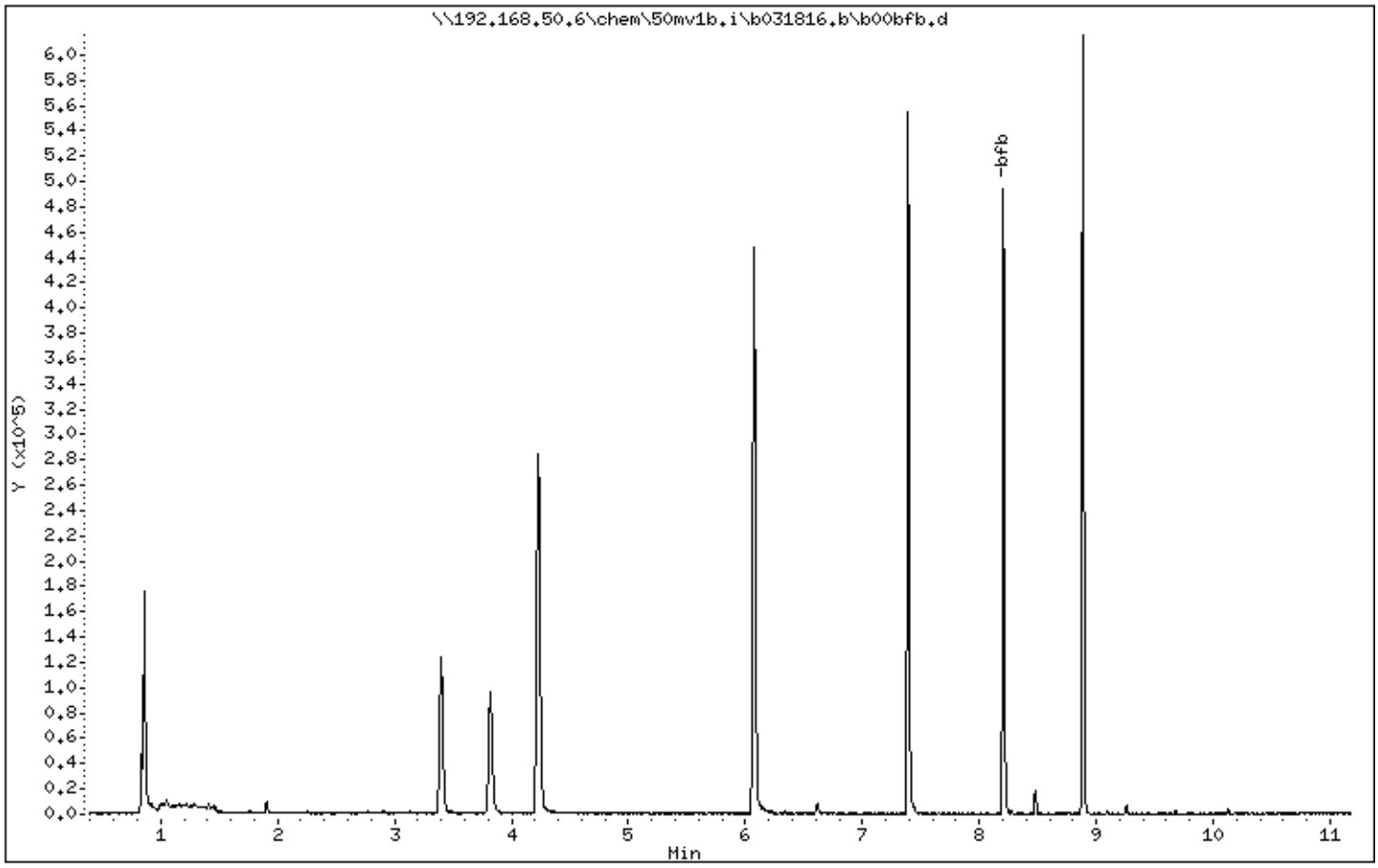
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b00bfb.d

Date : 18-MAR-2016 12:33

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

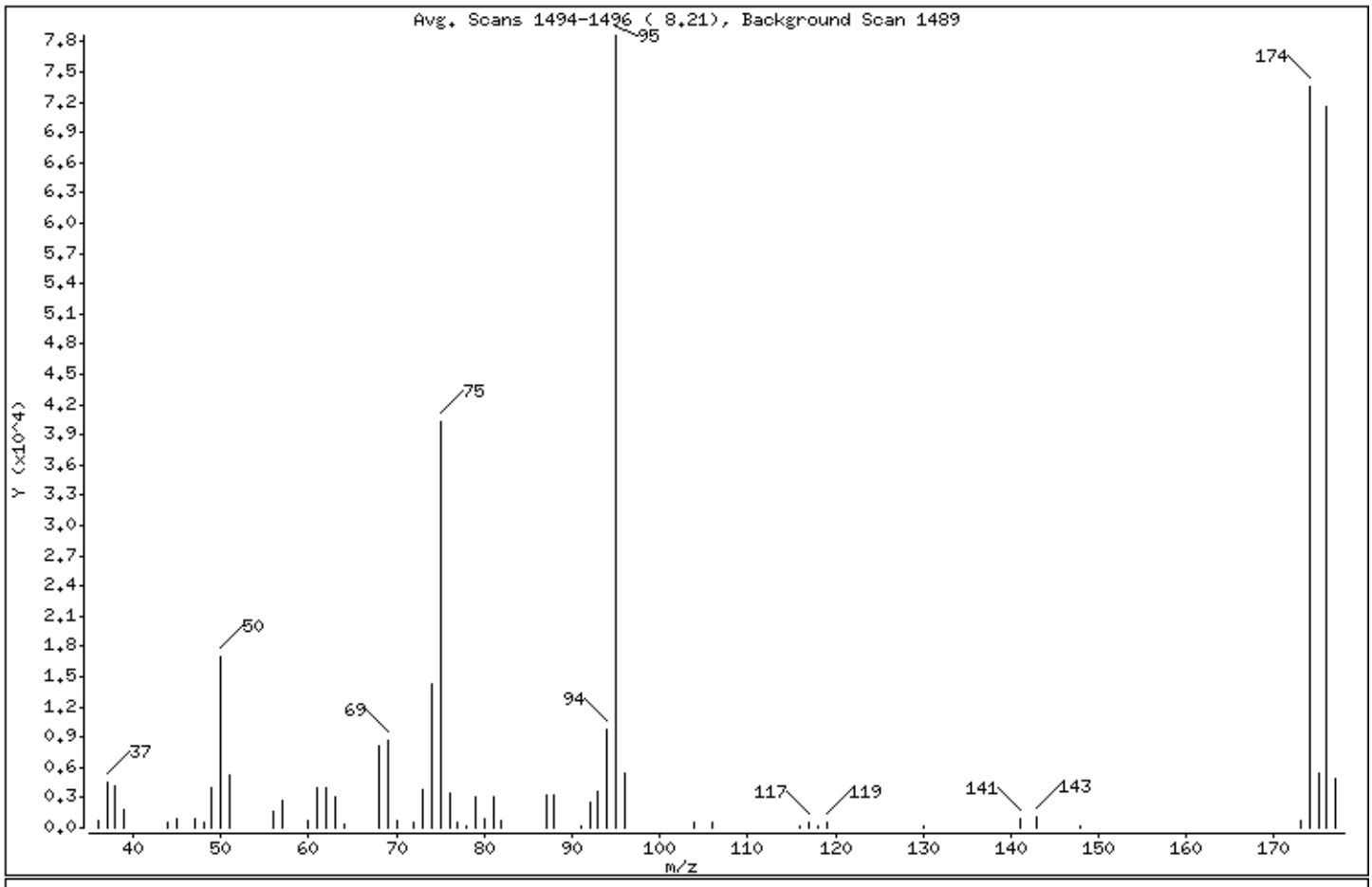
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.71
75	30.00 - 60.00% of mass 95	51.38
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.92 (0.99)
174	50.00 - 100.00% of mass 95	93.46
175	5.00 - 9.00% of mass 174	6.88 (7.36)
176	95.00 - 101.00% of mass 174	90.96 (97.33)
177	5.00 - 9.00% of mass 176	6.15 (6.76)

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b00bfb.d

Date : 18-MAR-2016 12:33

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1489
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	770	61.00	4048	79.00	3010	116.00	252
37.00	4606	62.00	3891	80.00	868	117.00	606
38.00	4069	63.00	3162	81.00	3149	118.00	154
39.00	1895	64.00	317	82.00	730	119.00	517
44.00	555	68.00	8162	87.00	3288	130.00	233
45.00	894	69.00	8758	88.00	3190	141.00	967
47.00	944	70.00	638	91.00	126	143.00	1024
48.00	593	72.00	531	92.00	2484	148.00	115
49.00	3930	73.00	3728	93.00	3536	173.00	725
50.00	17064	74.00	14363	94.00	9708	174.00	73456
51.00	5218	75.00	40384	95.00	78600	175.00	5408
56.00	1585	76.00	3382	96.00	5333	176.00	71496
57.00	2713	77.00	482	104.00	552	177.00	4836
60.00	799	78.00	222	106.00	464		

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b00bfb.d

Date : 20-MAR-2016 13:52

Client ID: 8260-TUNE

Instrument: 50mv1b.i

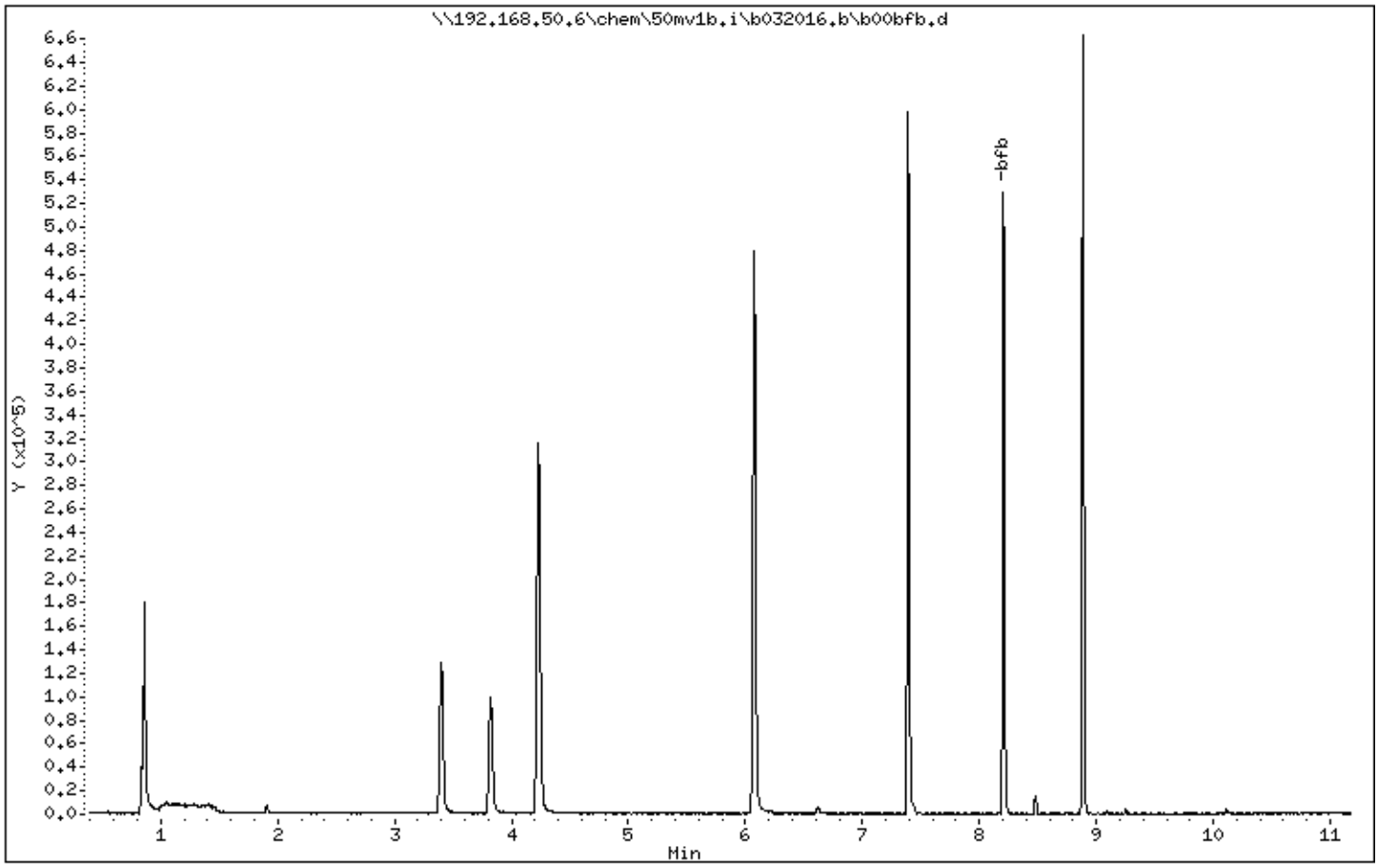
Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b00bfb.d

Date : 20-MAR-2016 13:52

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

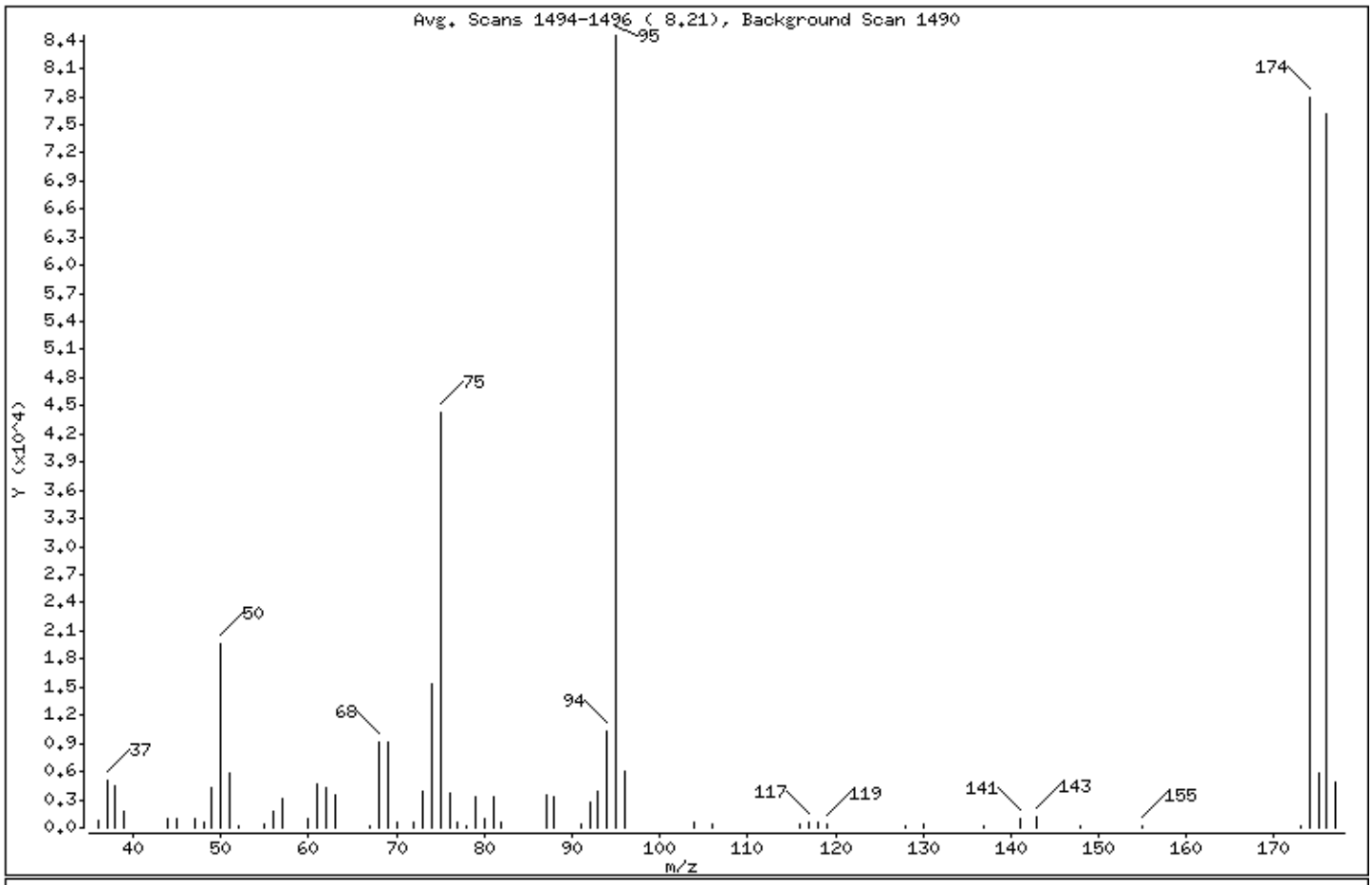
Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.22
75	30.00 - 60.00% of mass 95	52.45
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.24 (0.26)
174	50.00 - 100.00% of mass 95	92.23
175	5.00 - 9.00% of mass 174	6.93 (7.51)
176	95.00 - 101.00% of mass 174	90.05 (97.64)
177	5.00 - 9.00% of mass 176	5.70 (6.33)

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b00bfb.d

Date : 20-MAR-2016 13:52

Client ID: 8260-TUNE

Instrument: 50mv1b.i

Sample Info: 8260-TUNE,117039:0

Volume Injected (uL): 1.0

Operator: grm

Column phase:

Column diameter: 2.00

Data File: b00bfb.d
Spectrum: Avg. Scans 1494-1496 (8.21), Background Scan 1490
Location of Maximum: 95.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	755	61.00	4643	81.00	3316	128.00	104
37.00	5035	62.00	4332	82.00	614	130.00	294
38.00	4462	63.00	3407	87.00	3489	137.00	102
39.00	1832	67.00	173	88.00	3295	141.00	1044
44.00	1067	68.00	9204	91.00	292	143.00	1182
45.00	883	69.00	9103	92.00	2713	148.00	213
47.00	925	70.00	675	93.00	3840	155.00	113
48.00	581	72.00	513	94.00	10386	173.00	201
49.00	4186	73.00	3880	95.00	84512	174.00	77944
50.00	19624	74.00	15351	96.00	5970	175.00	5854
51.00	5810	75.00	44328	104.00	527	176.00	76104
52.00	225	76.00	3704	106.00	302	177.00	4816
55.00	363	77.00	634	116.00	294		
56.00	1710	78.00	207	117.00	674		
57.00	3127	79.00	3289	118.00	534		
60.00	926	80.00	939	119.00	419		

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 13:26 Lab Sample ID: 1500382

Date Analyzed: 03/17/2016 13:26 Lab File ID: B031716.B\B03MBWX.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 13:26 Lab Sample ID: 1500382

Date Analyzed: 03/17/2016 13:26 Lab File ID: B031716.B\B03MBWX.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d
Lab Smp Id: 1500382 Client Smp ID: MBw
Inj Date : 17-MAR-2016 13:26
Operator : grm Inst ID: 50mv1b.i
Smp Info : mbw
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 54 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	18 Methylene Chloride	84	1.908	1.904	(0.451)	3536	2.16247	2.16	
	24 n-Hexane	57	2.258	2.260	(0.534)	2571	0.96699	0.967	
$	38 Dibromofluoromethane (S)	113	3.398	3.395	(0.803)	79584	53.5137	53.5	
*	46 Fluorobenzene (IS)	96	4.230	4.231	(1.000)	286387	50.0000		
$	57 Toluene-d8	98	6.076	6.072	(0.822)	282793	49.7601	49.8	
	58 Toluene	91	6.149	6.146	(0.832)	3261	0.46783	0.468	
*	67 Chlorobenzene-D5 (IS)	117	7.394	7.390	(1.000)	218873	50.0000		
	70 Ethylbenzene	106	7.493	7.495	(1.013)	483	0.19611	0.196(Q)	
	71 m&p-Xylene	106	7.587	7.589	(1.026)	1455	0.47191	0.472	
$	76 4-Bromofluorobenzene	95	8.210	8.206	(1.110)	104726	52.7086	52.7	
	77 Bromobenzene	77	8.288	8.285	(1.121)	518	0.18178	0.182	
	82 n-Propylbenzene	91	8.362	8.353	(0.941)	1829	0.19305	0.193	
	84 1,3,5-Trimethylbenzene	105	8.466	8.463	(0.953)	852	0.13221	0.132	
	87 1,2,4-Trimethylbenzene	105	8.681	8.677	(0.977)	2424	0.36148	0.361	
	89 1,3-Dichlorobenzene	146	8.843	8.839	(0.995)	806	0.20168	0.202(Q)	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.885	8.886	(1.000)	116111	50.0000		
	92 1,4-Dichlorobenzene	146	8.905	8.897	(1.002)	811	0.20222	0.202(Q)	
	94 1,2-Dichlorobenzene	146	9.094	9.090	(1.024)	606	0.17247	0.172(Q)	
	98 Naphthalene	128	10.077	10.068	(1.134)	4272	0.71988	0.720	
	100 2,methyl-naphthalene	142	10.726	10.712	(1.207)	3483	0.87549	0.875	
	101 1-methylnaphthalene	142	10.841	10.832	(1.220)	2884	0.80271	0.803	

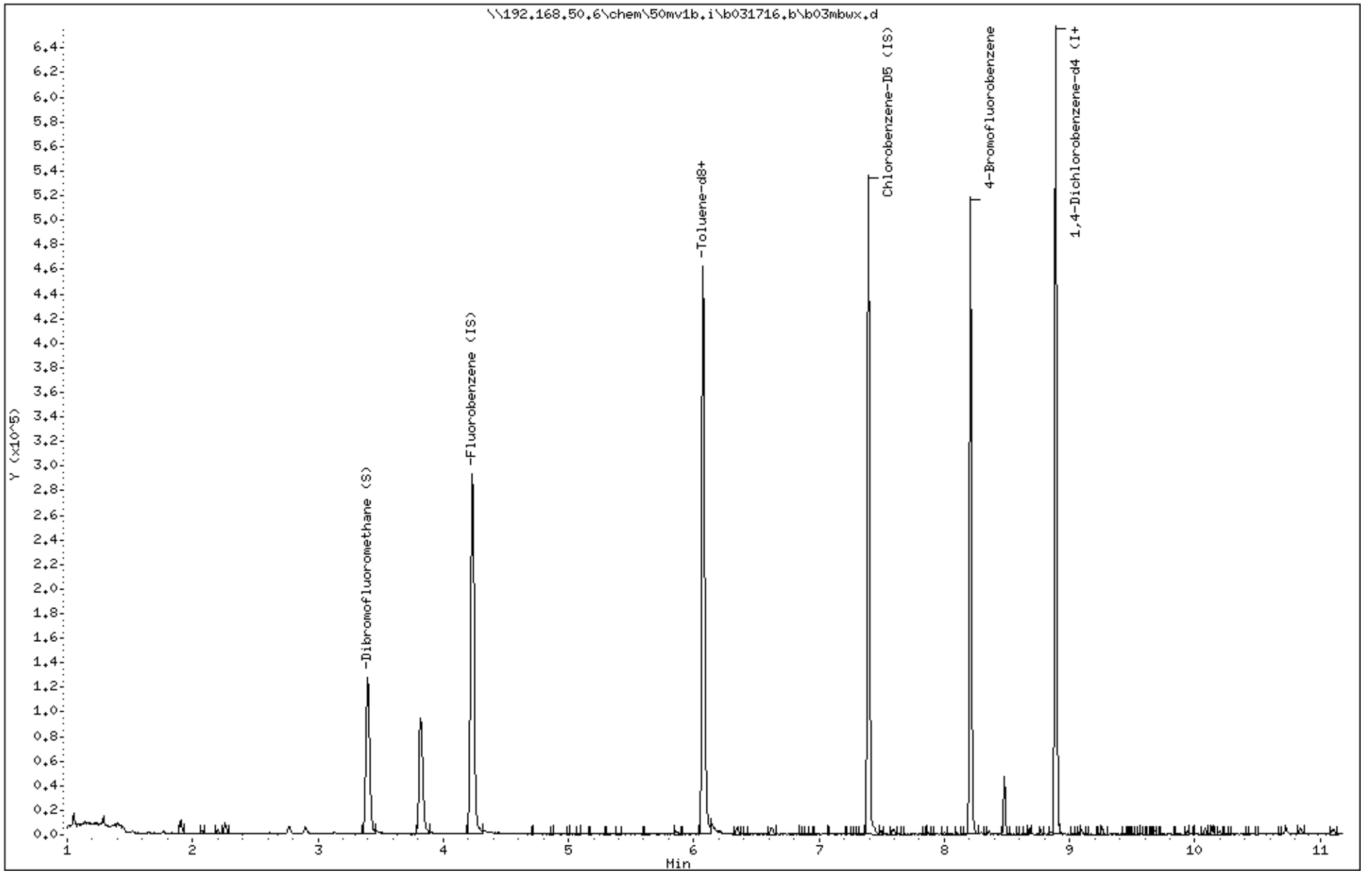
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d
Date : 17-MAR-2016 13:26
Client ID: MBw
Instrument: 50mv1b.i
Sample Info: MBw
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

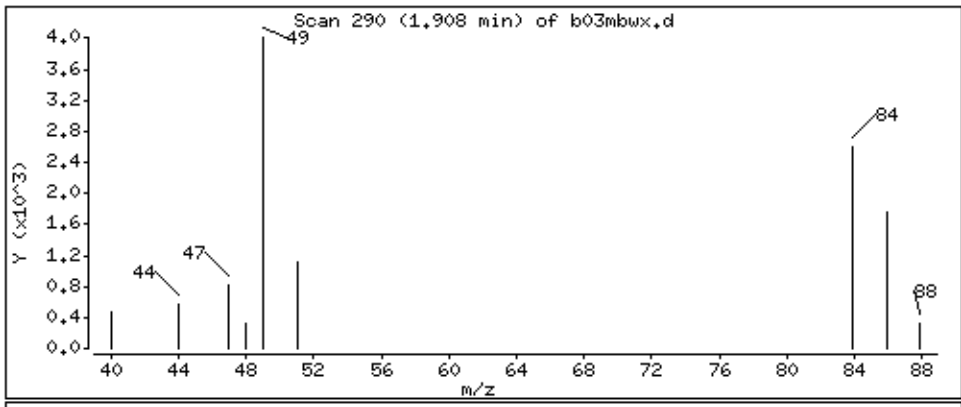
Operator: grm

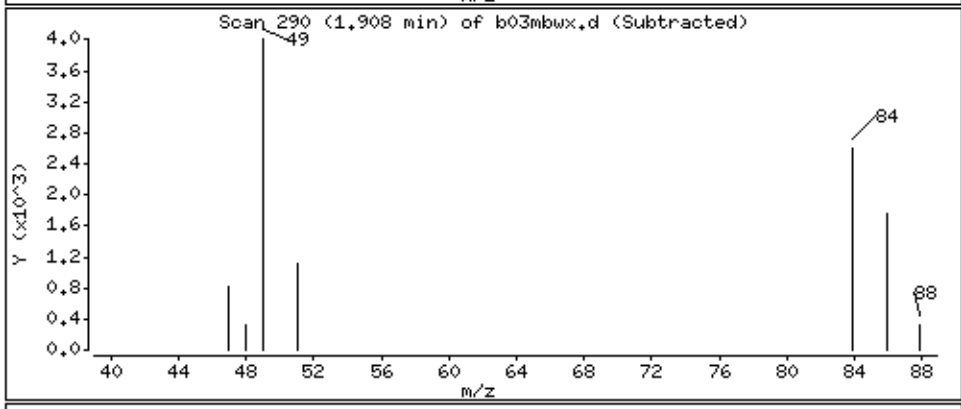
Column phase: DB-624

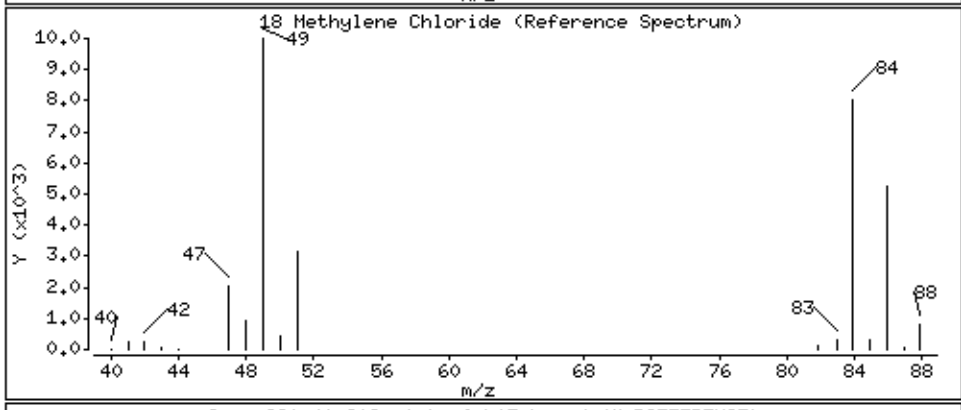
Column diameter: 0.18

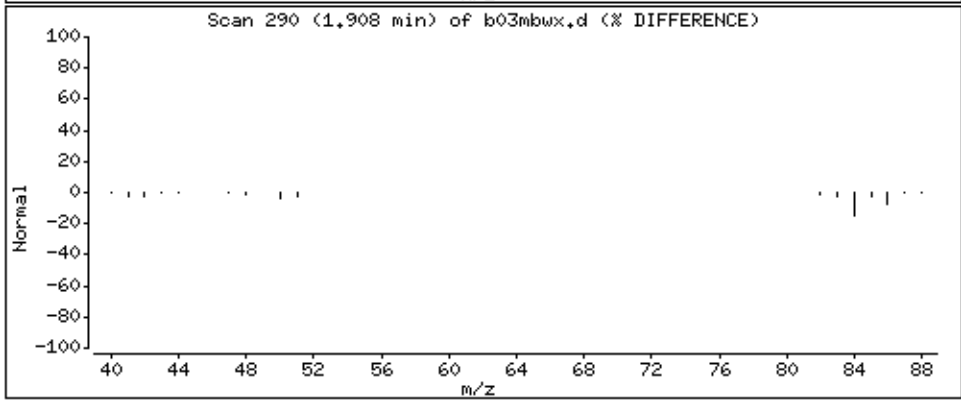
18 Methylene Chloride

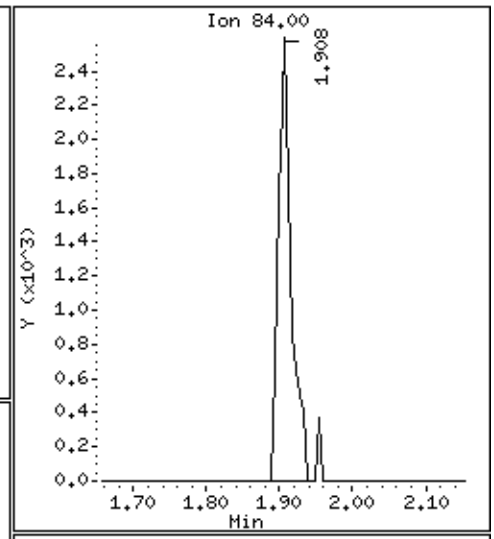
Concentration: 2.16 ppb

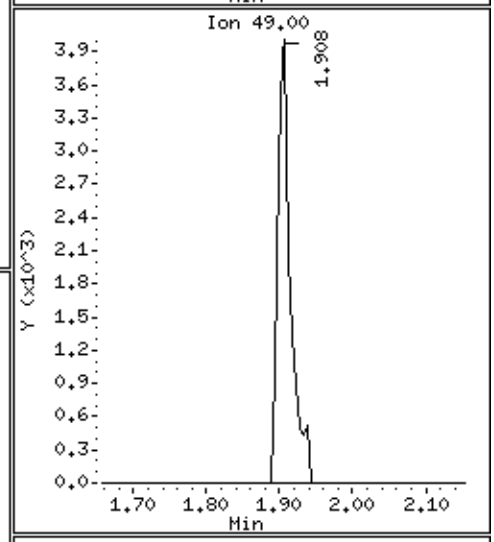


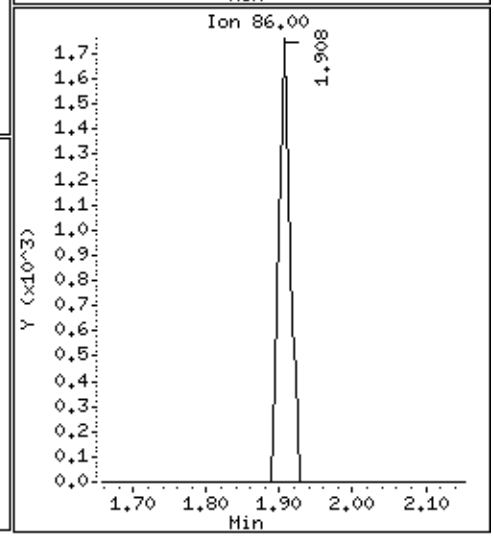












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

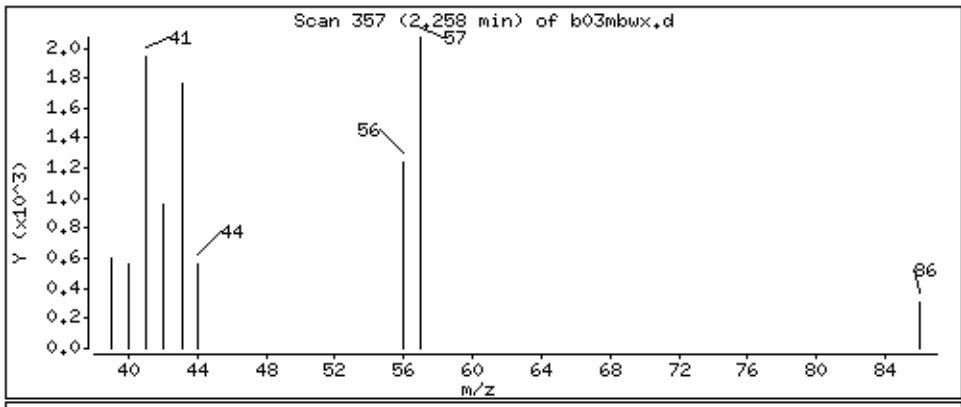
Operator: grm

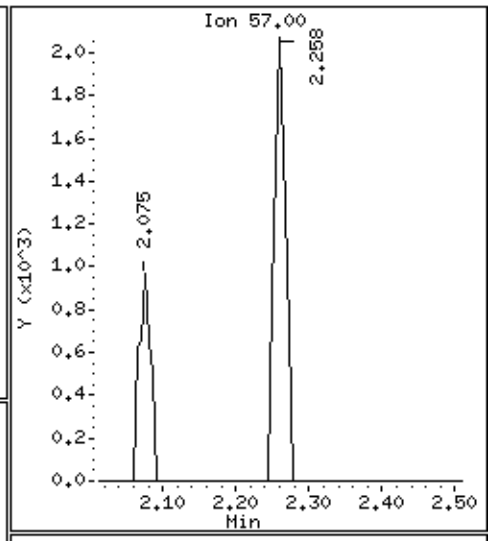
Column phase: DB-624

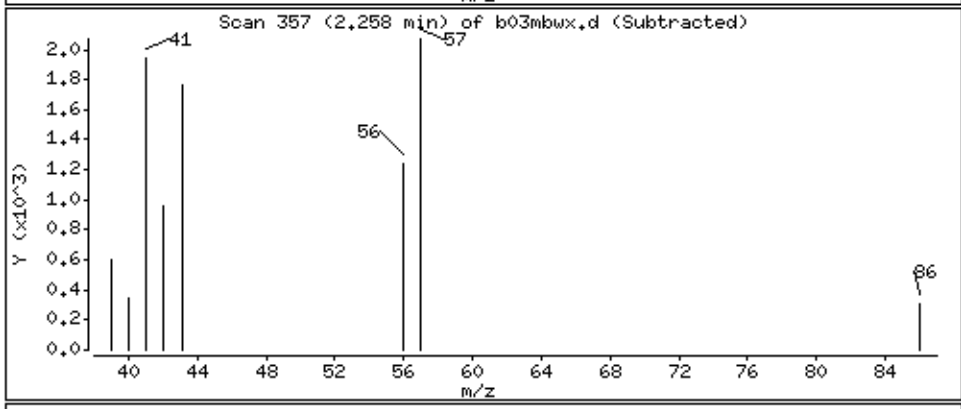
Column diameter: 0.18

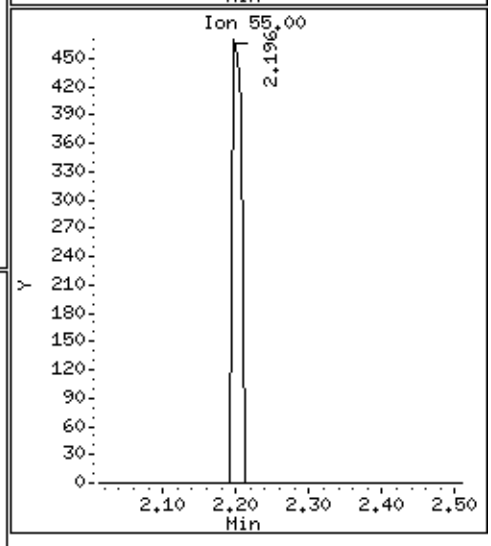
24 n-Hexane

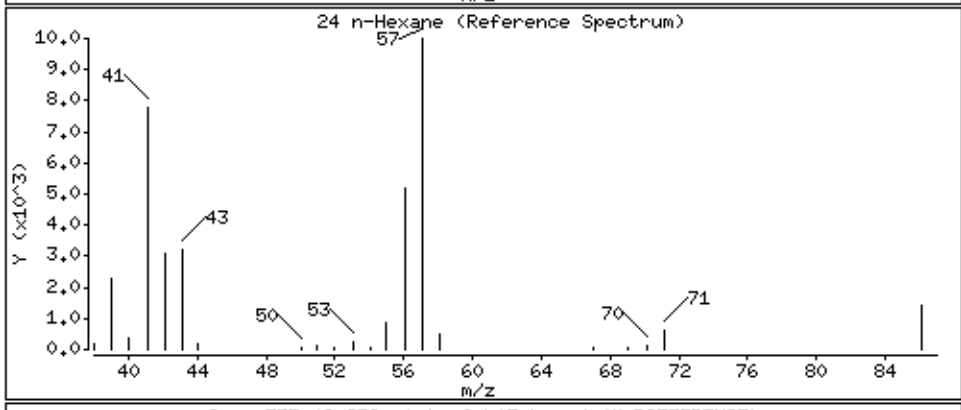
Concentration: 0.967 ppb

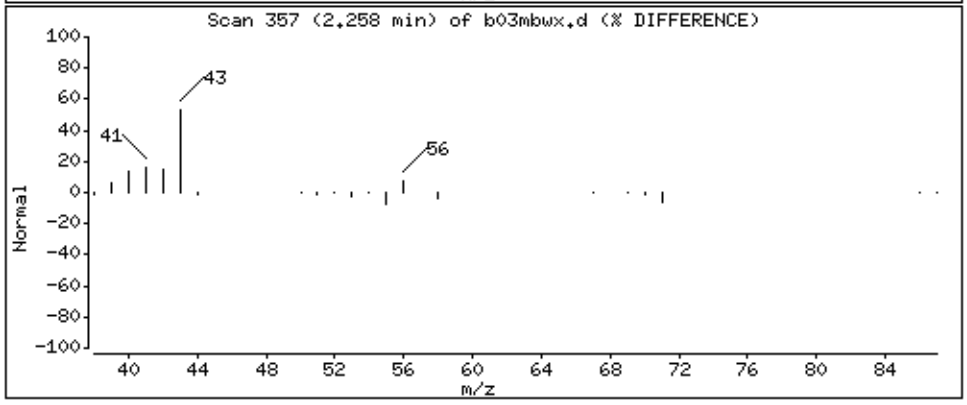












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

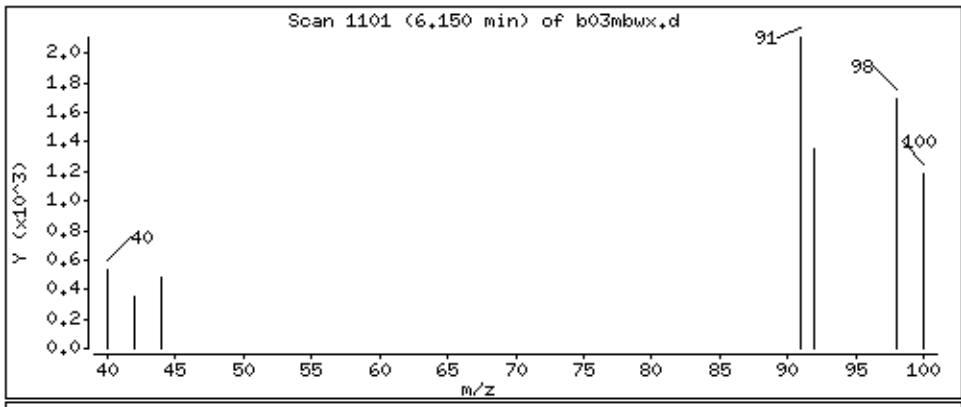
Operator: grm

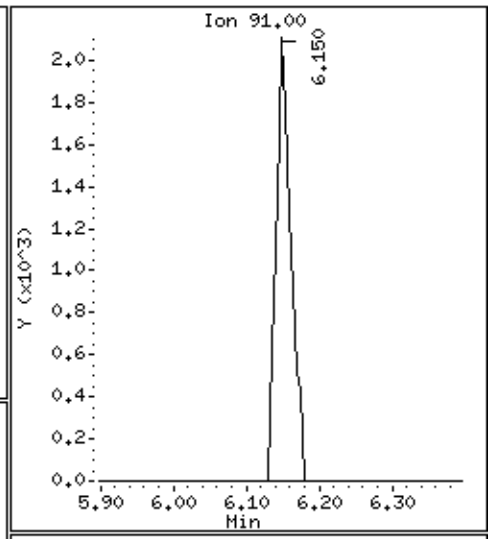
Column phase: DB-624

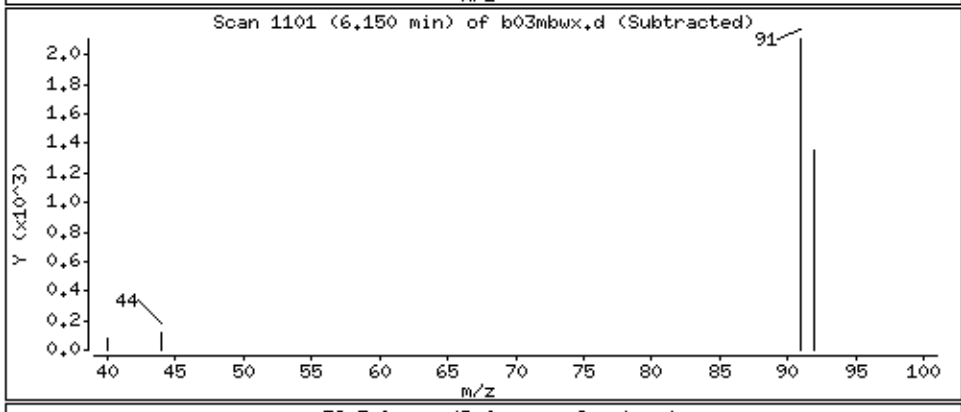
Column diameter: 0.18

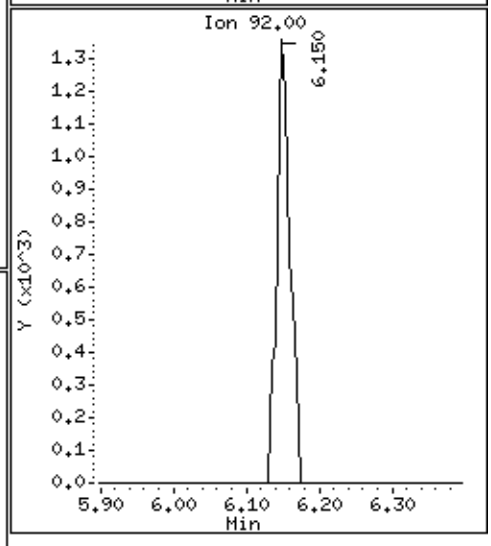
58 Toluene

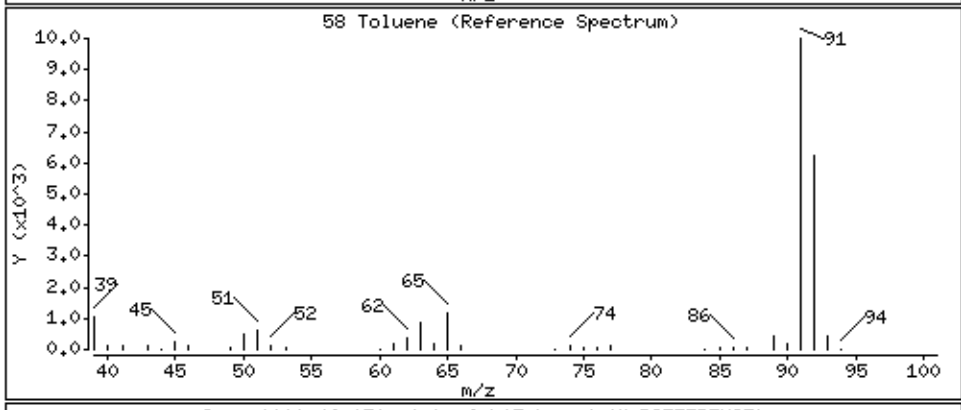
Concentration: 0.468 ppb

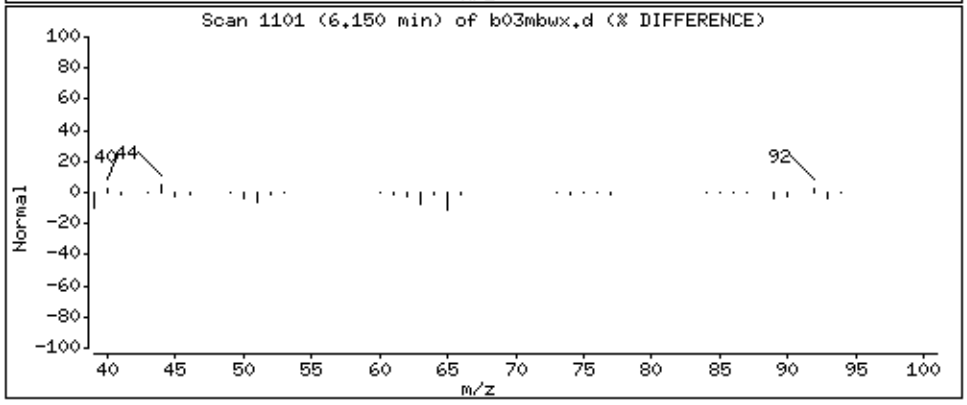












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

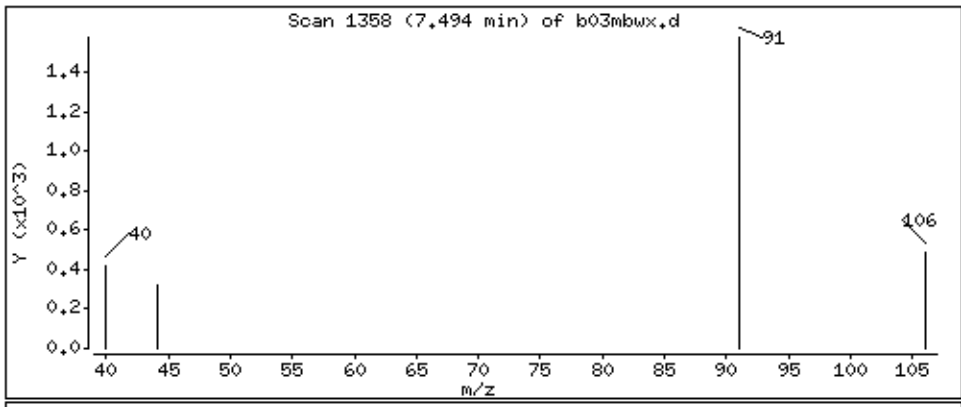
Operator: grm

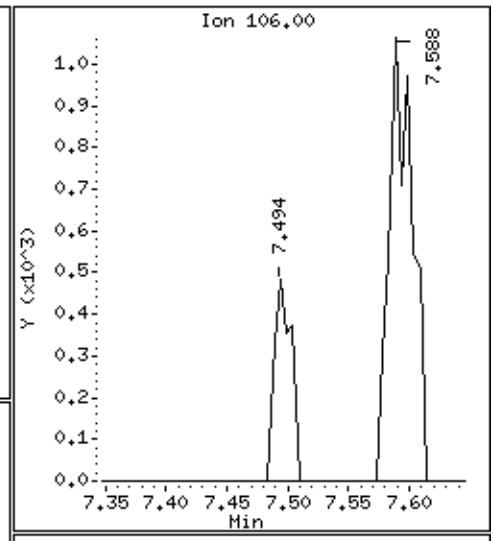
Column phase: DB-624

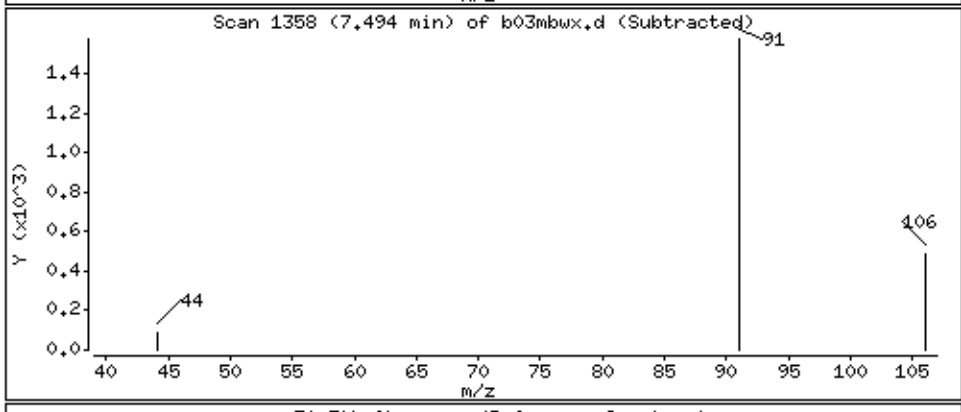
Column diameter: 0.18

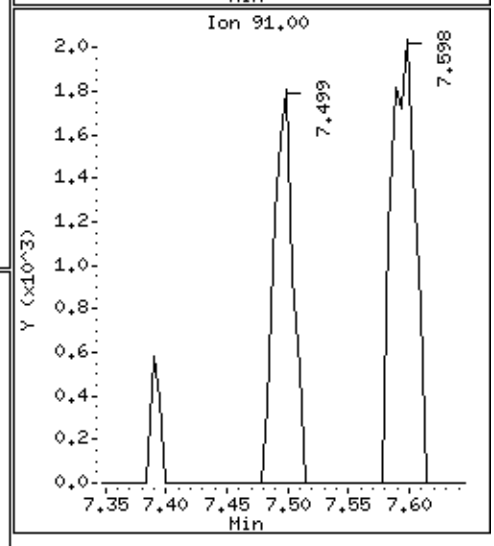
70 Ethylbenzene

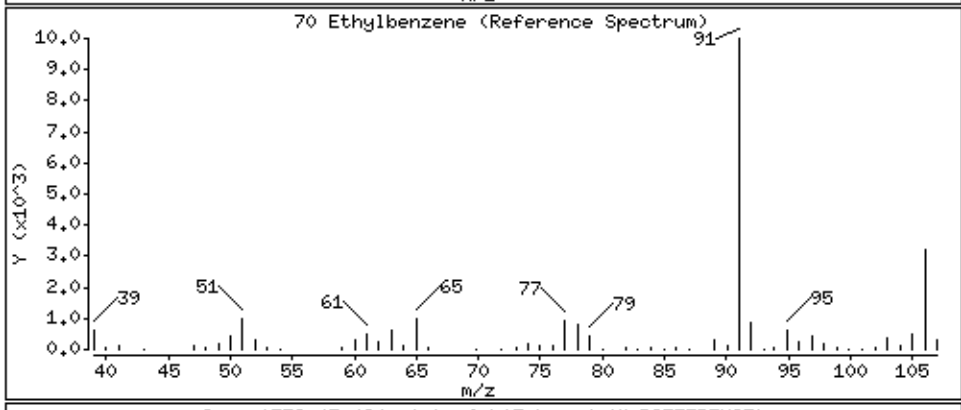
Concentration: 0.196 ppb

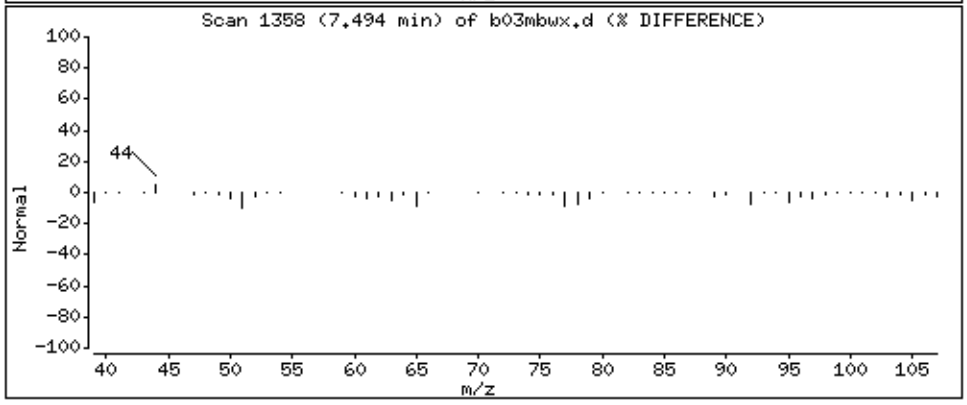












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

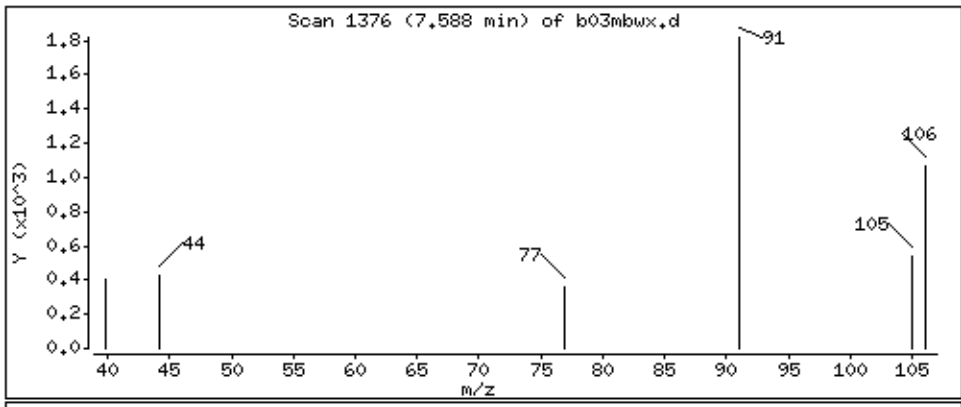
Operator: grm

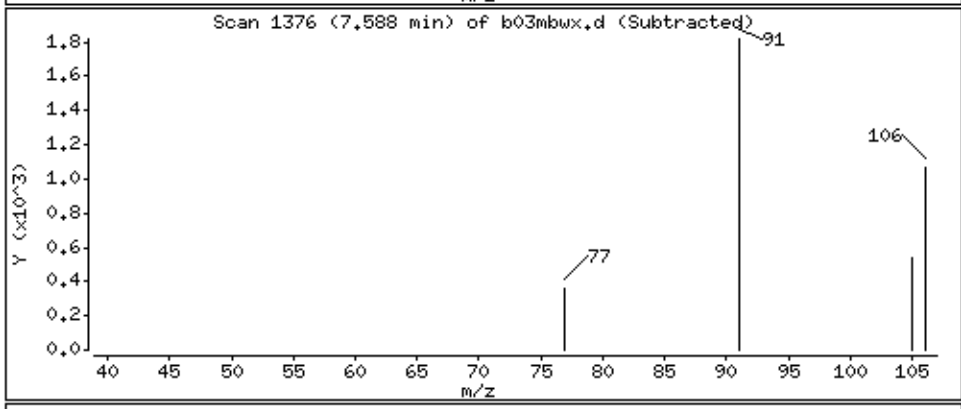
Column phase: DB-624

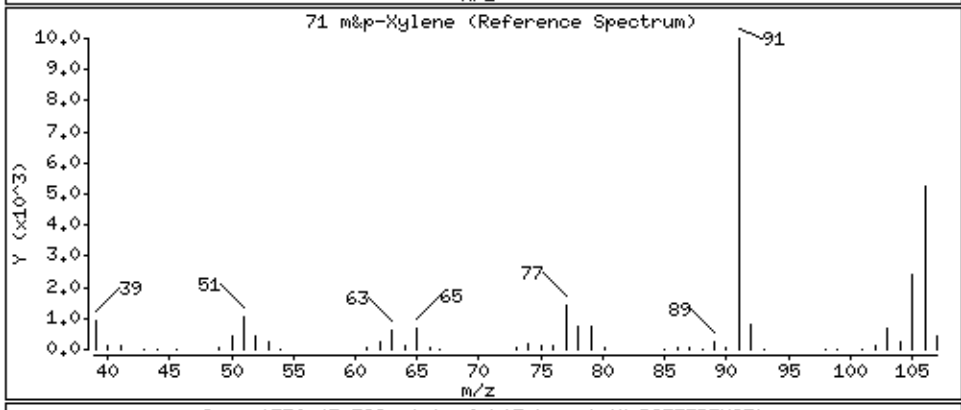
Column diameter: 0.18

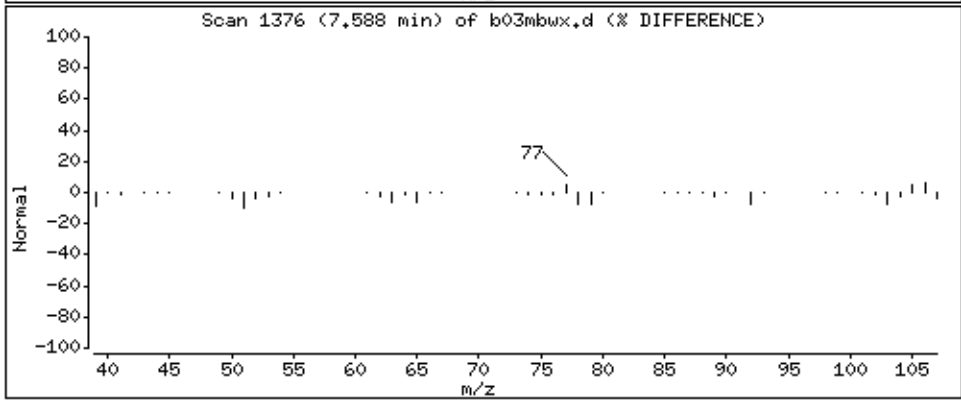
71 m&p-Xylene

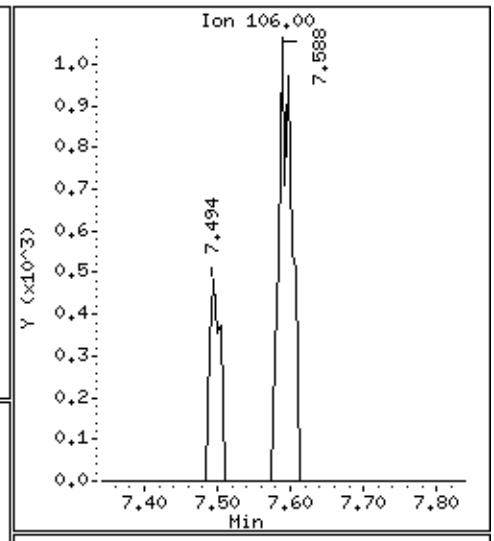
Concentration: 0.472 ppb

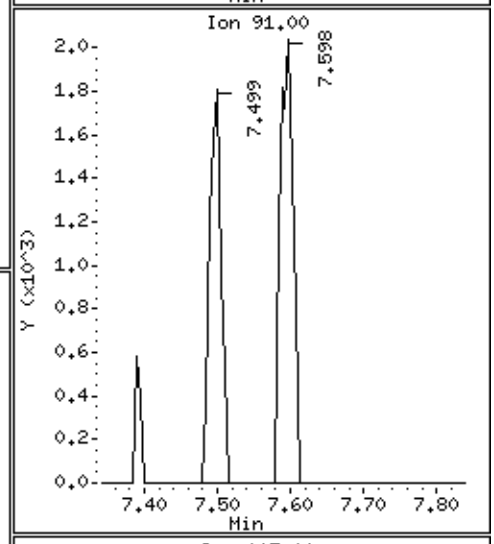


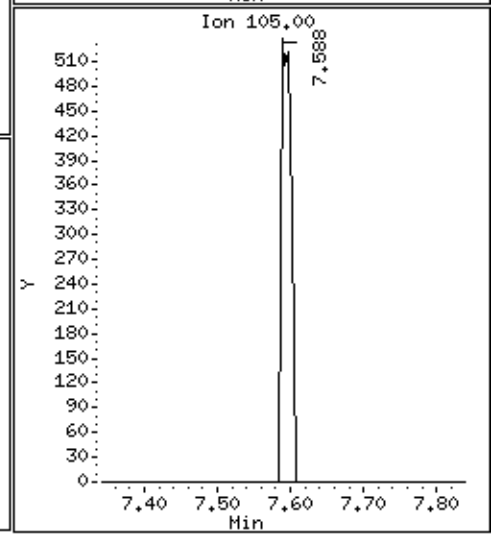












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

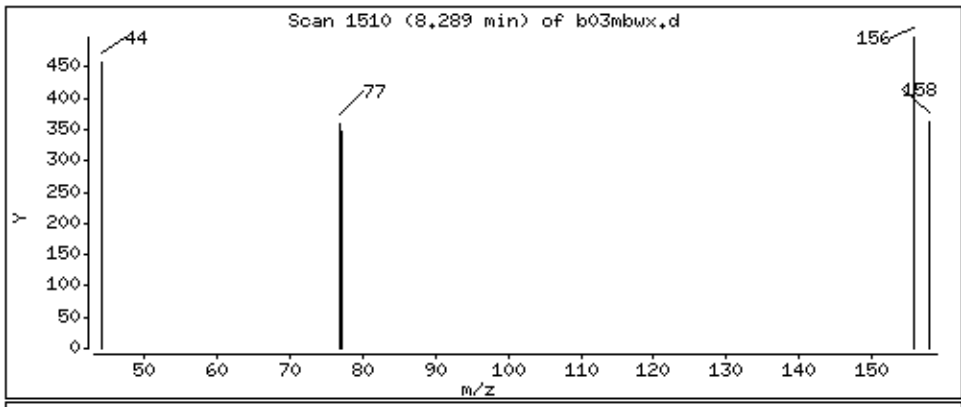
Operator: grm

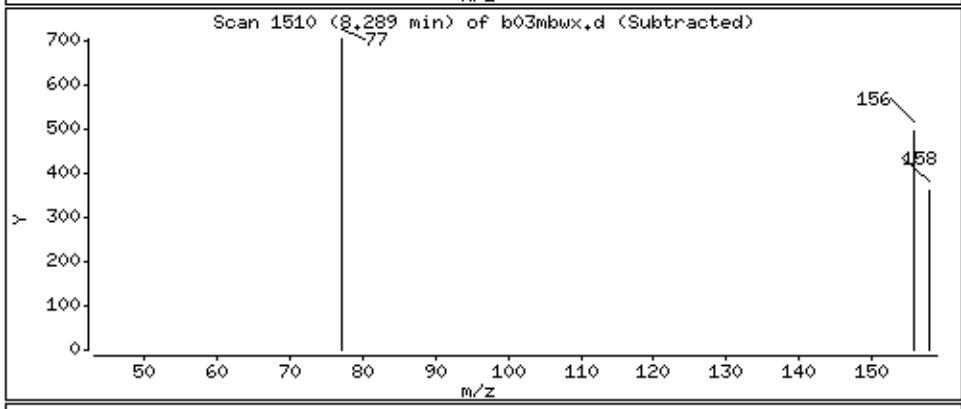
Column phase: DB-624

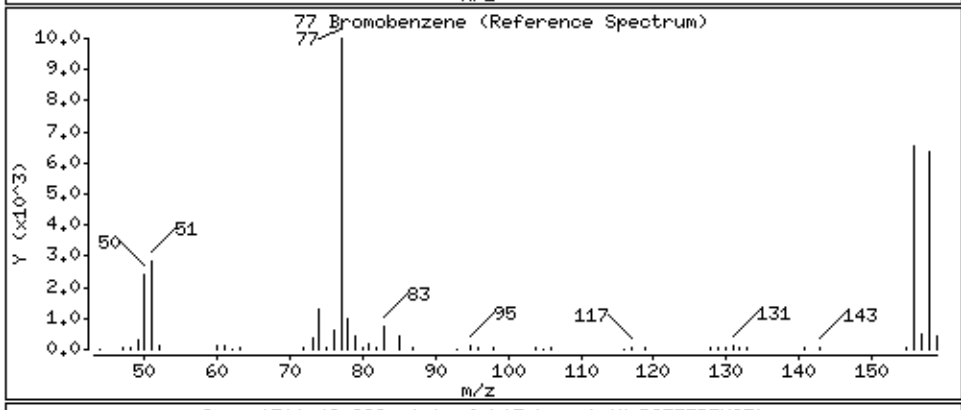
Column diameter: 0.18

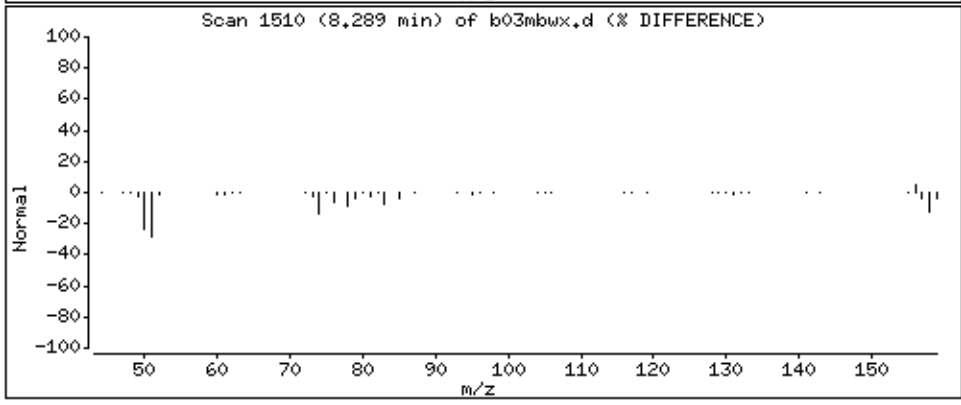
77 Bromobenzene

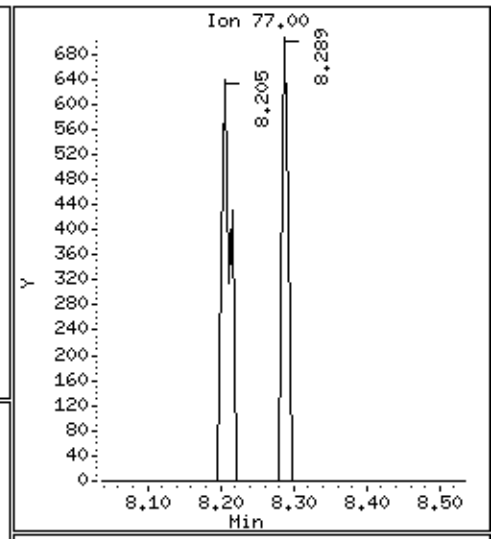
Concentration: 0.182 ppb

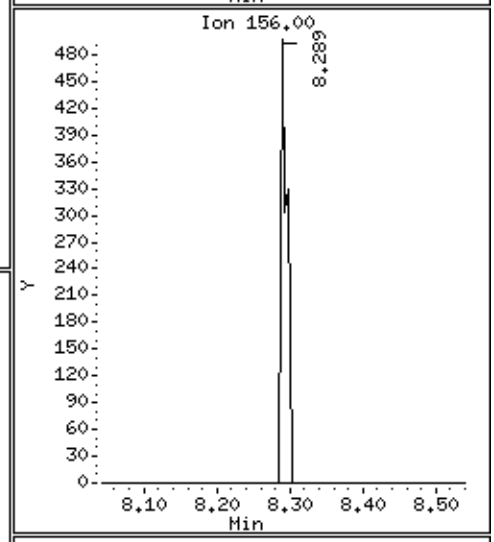


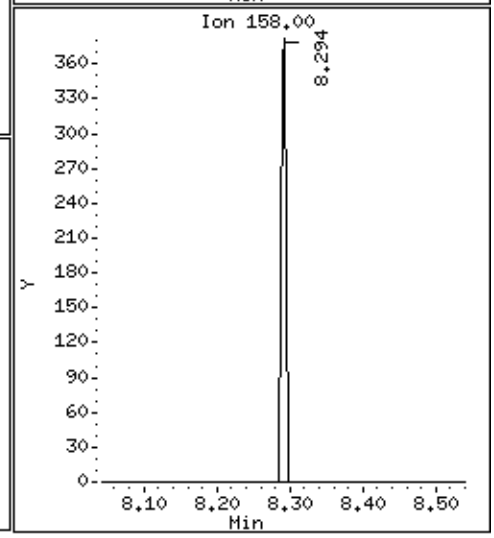












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

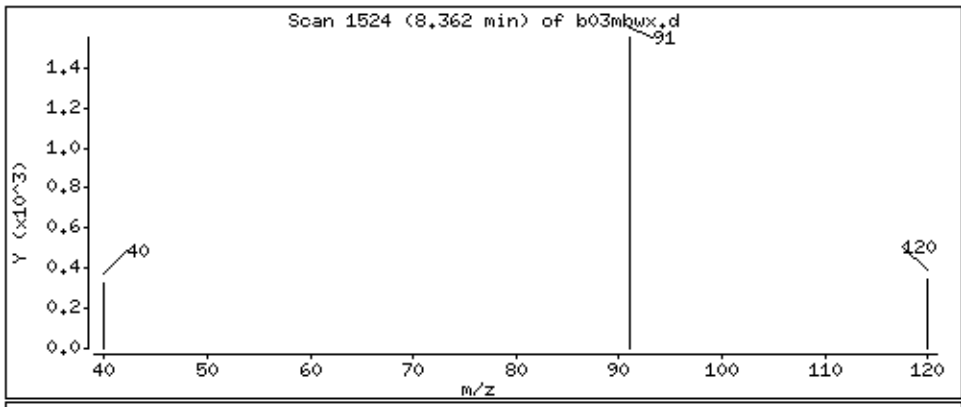
Operator: grm

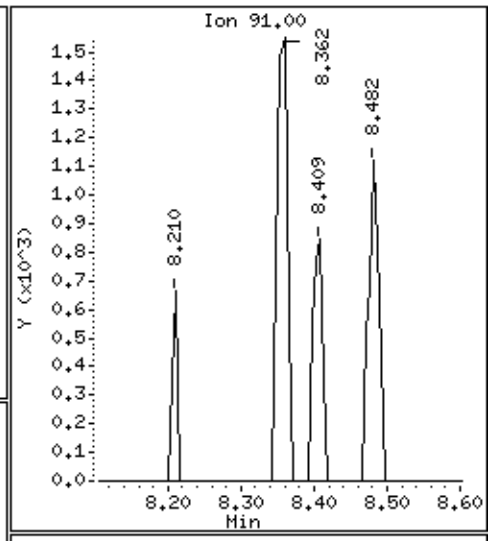
Column phase: DB-624

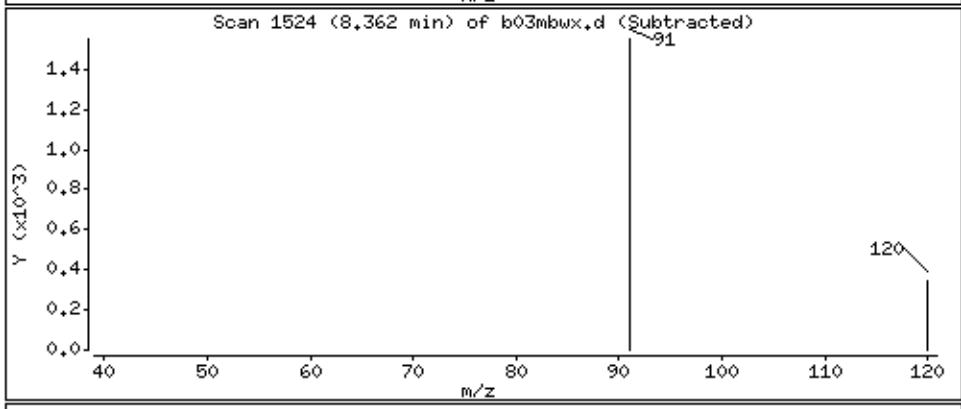
Column diameter: 0.18

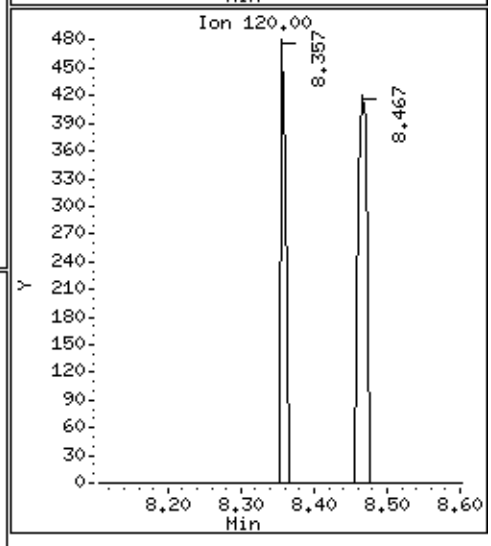
82 n-Propylbenzene

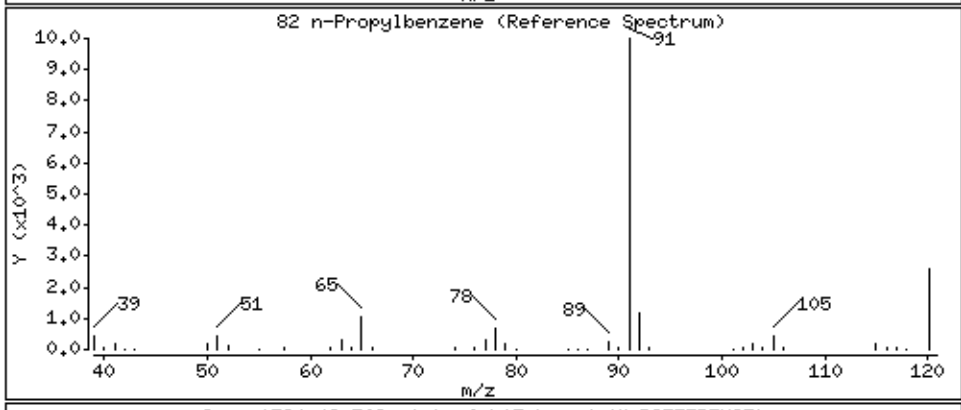
Concentration: 0.193 ppb

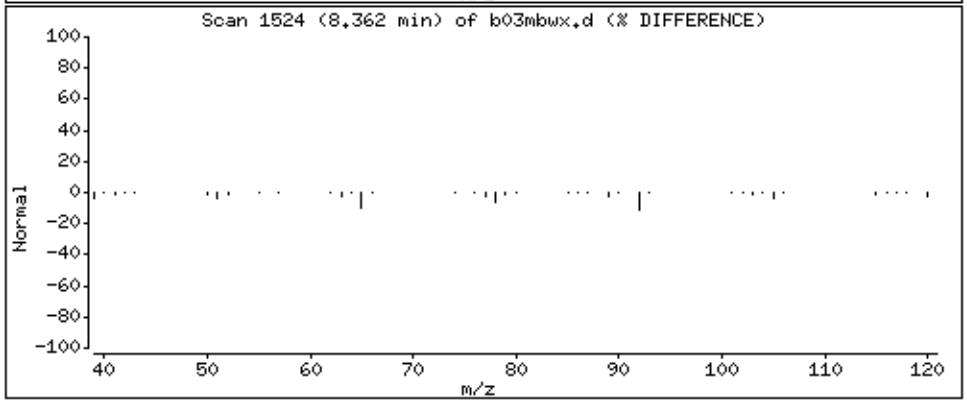












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

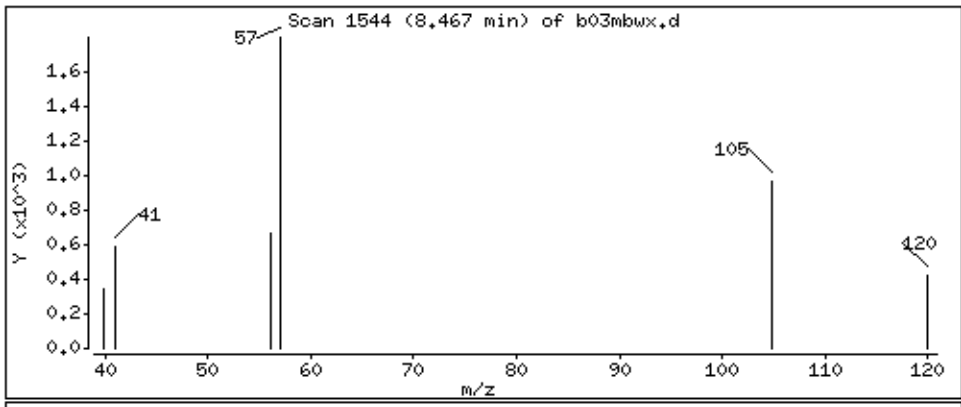
Operator: grm

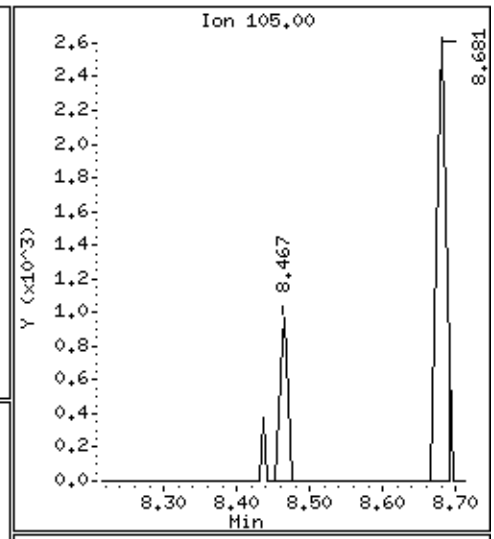
Column phase: DB-624

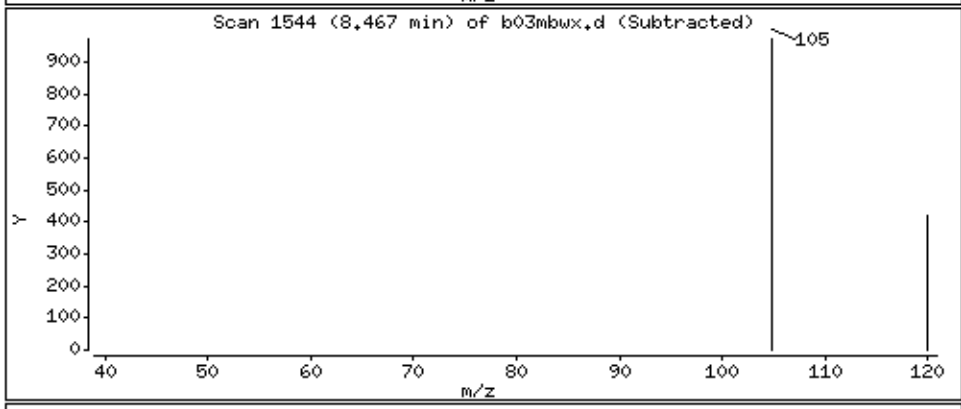
Column diameter: 0.18

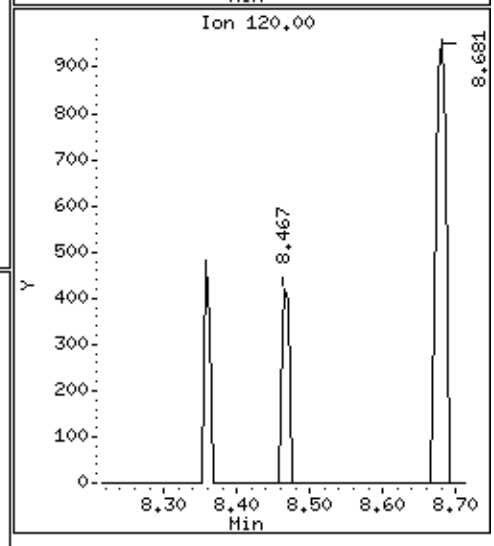
84 1,3,5-Trimethylbenzene

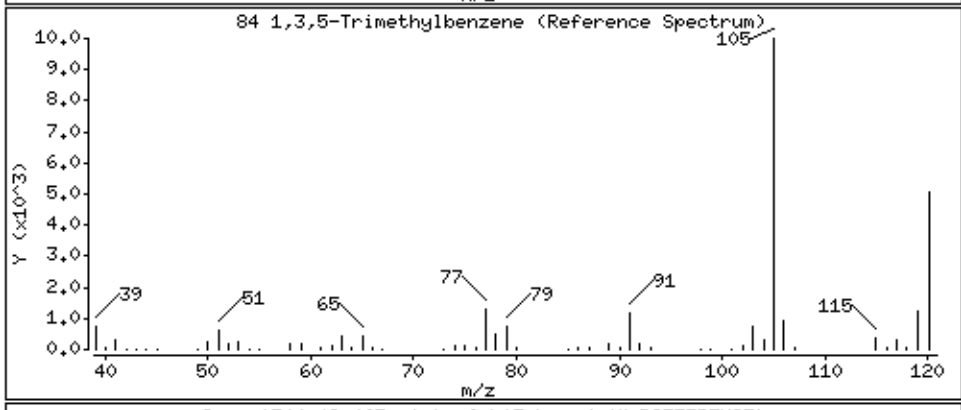
Concentration: 0.132 ppb

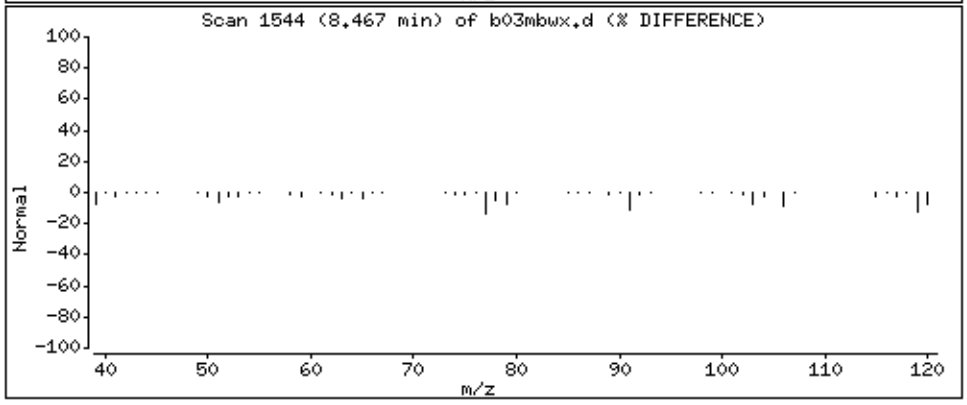












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

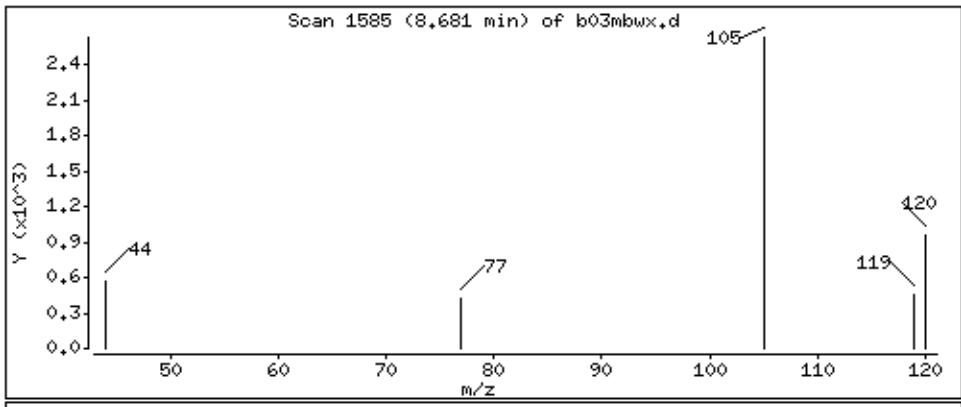
Operator: grm

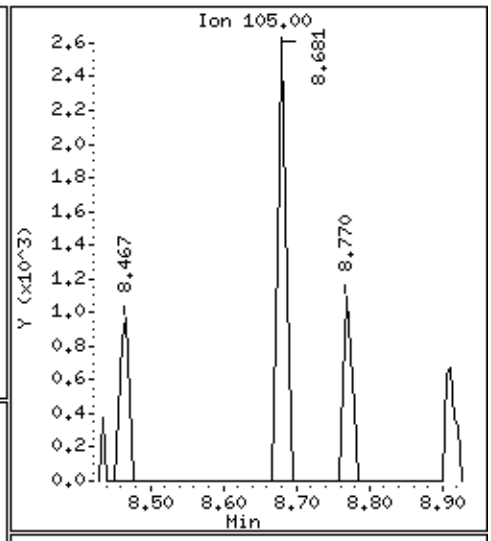
Column phase: DB-624

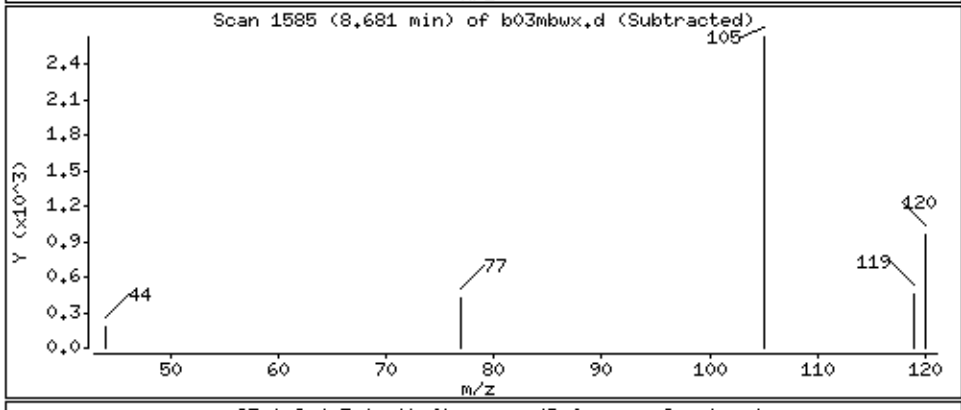
Column diameter: 0.18

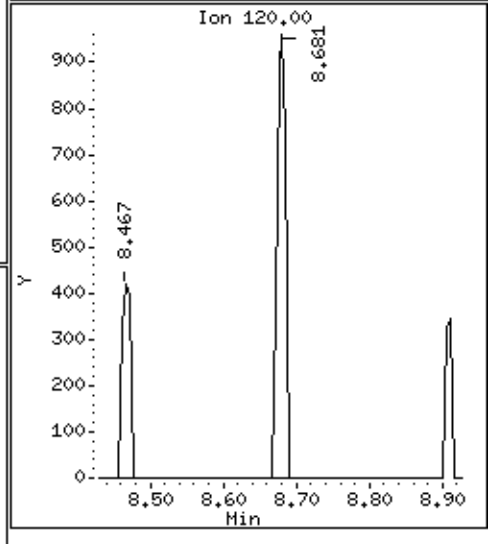
87 1,2,4-Trimethylbenzene

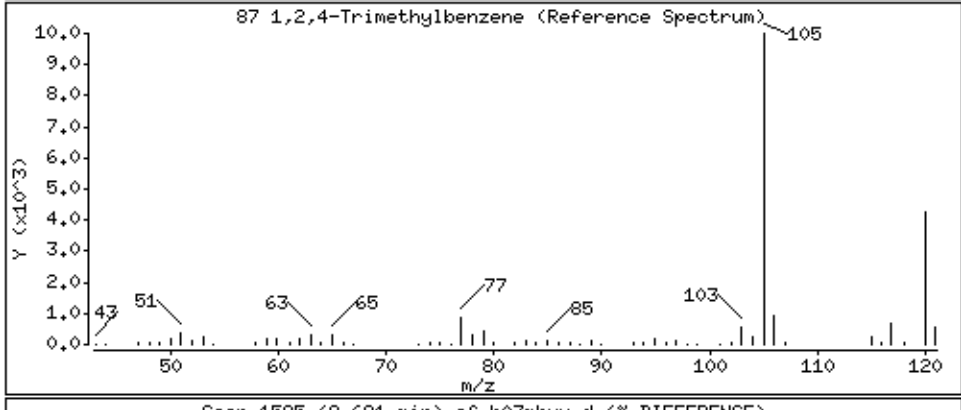
Concentration: 0.361 ppb

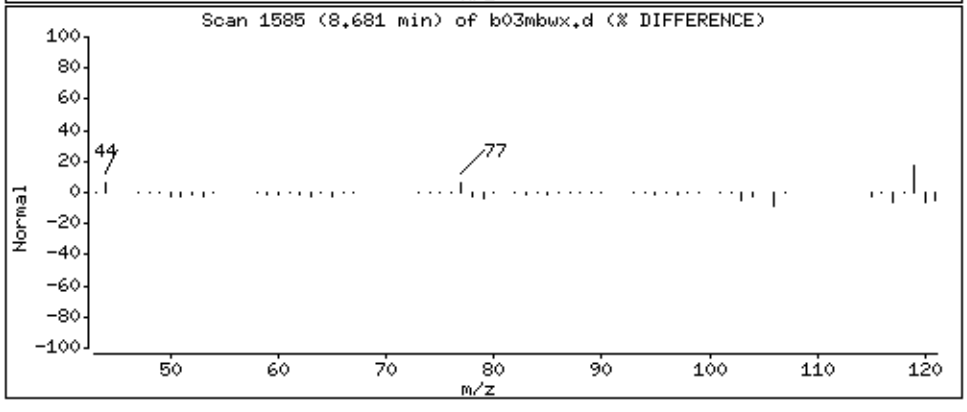












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

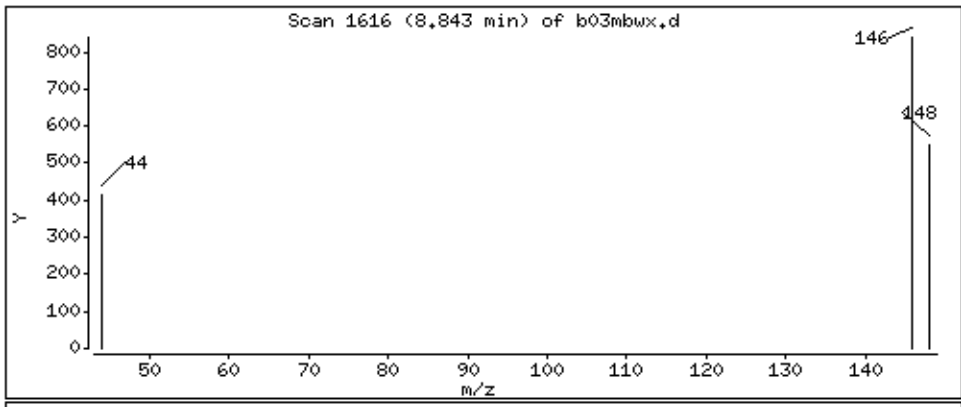
Operator: grm

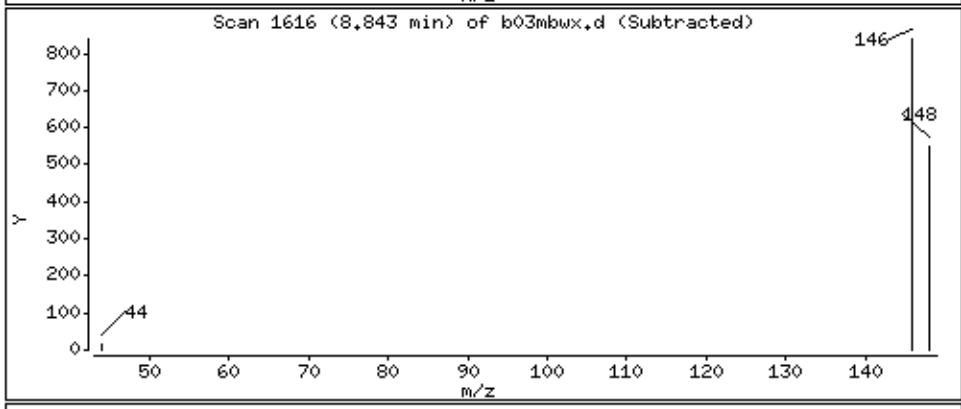
Column phase: DB-624

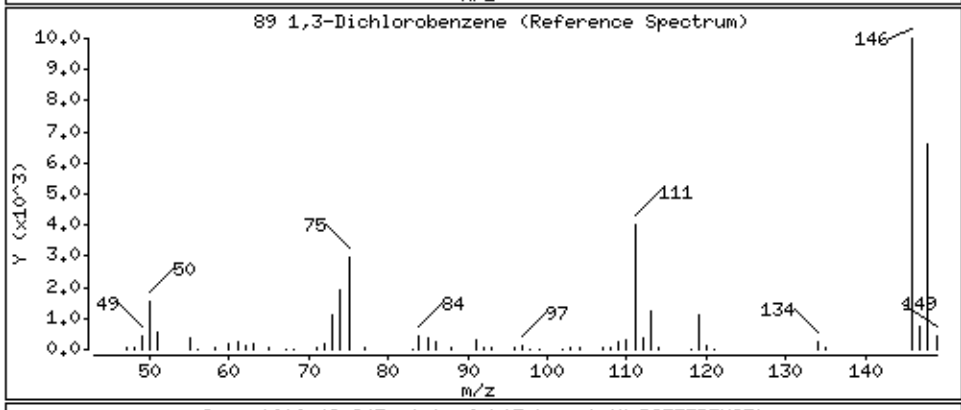
Column diameter: 0.18

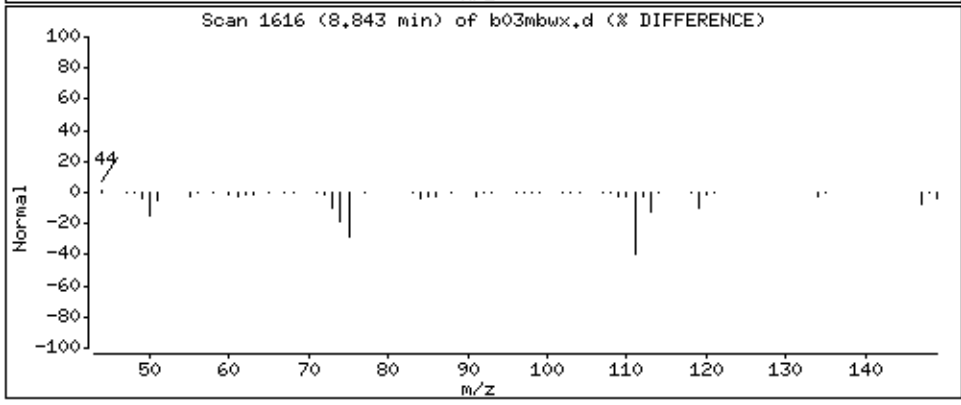
89 1,3-Dichlorobenzene

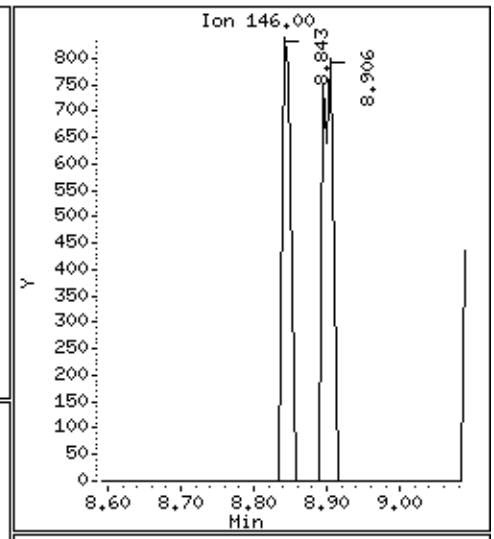
Concentration: 0.202 ppb

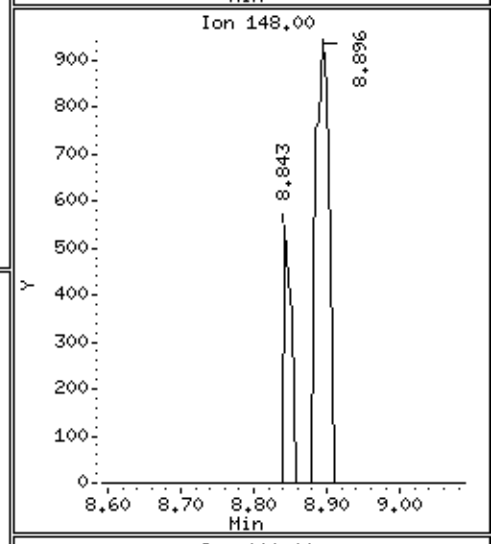


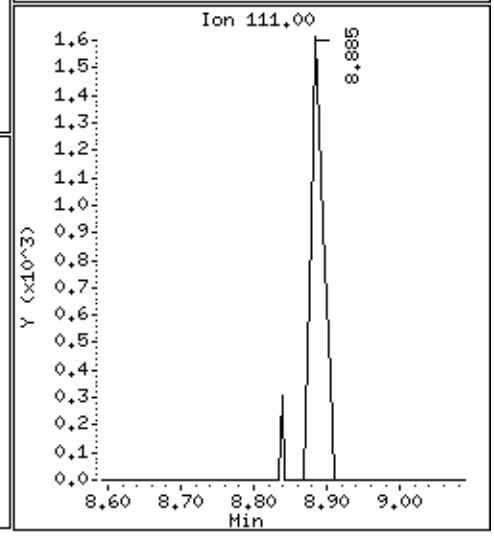












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

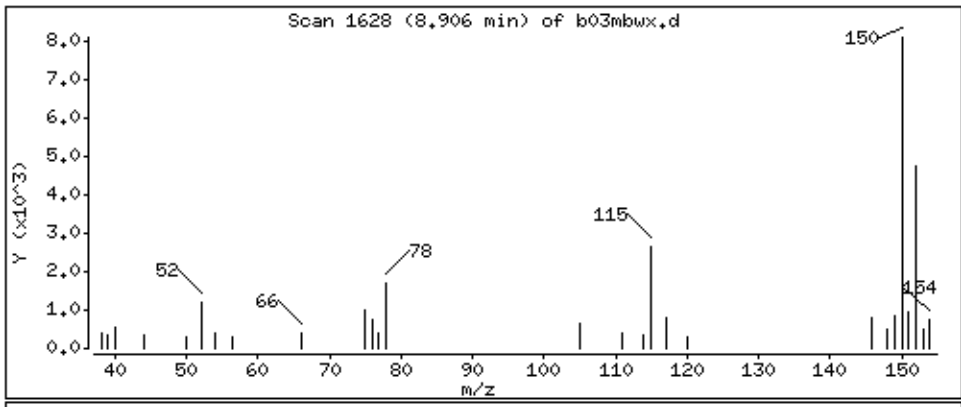
Operator: grm

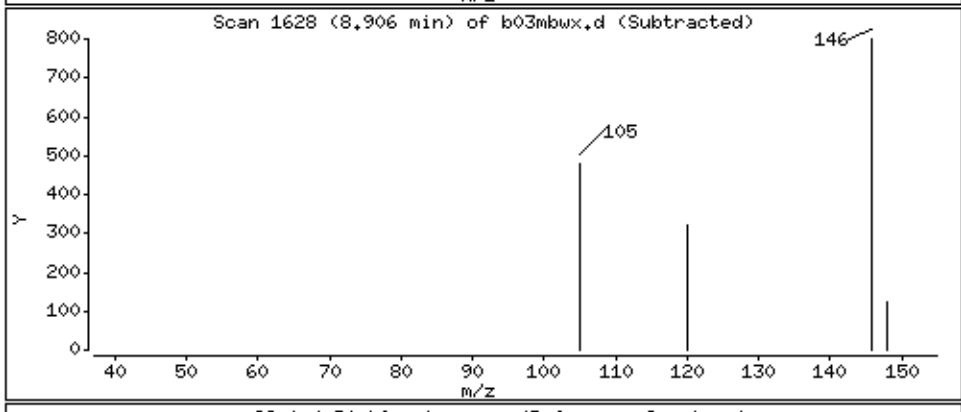
Column phase: DB-624

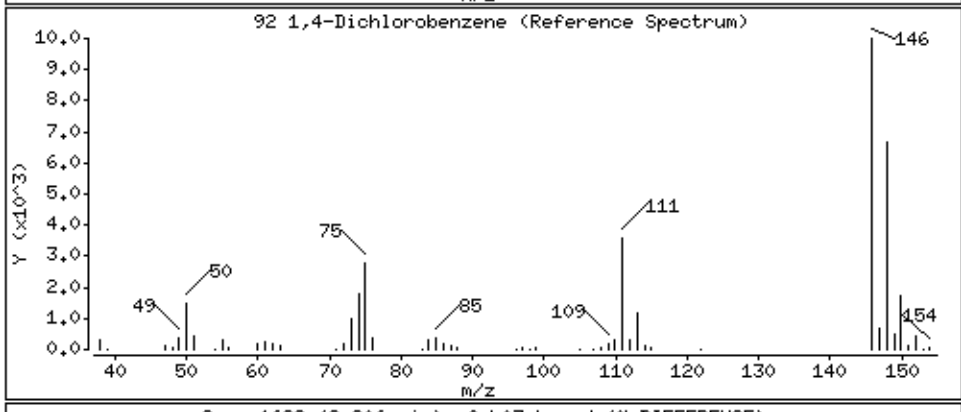
Column diameter: 0.18

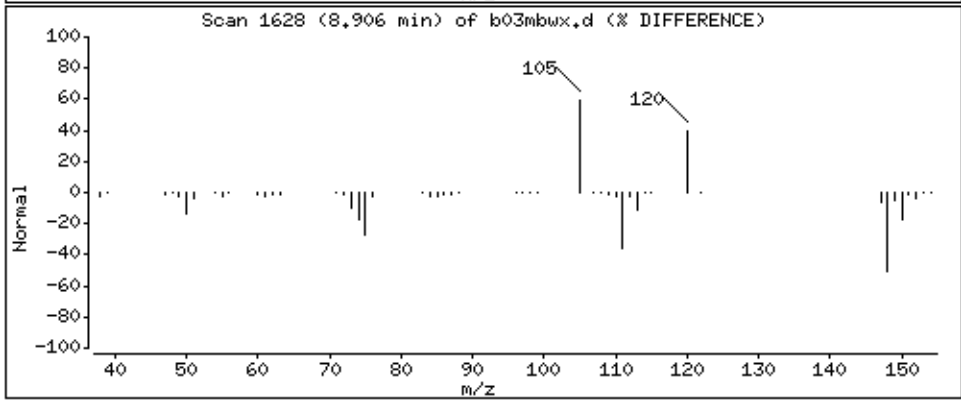
92 1,4-Dichlorobenzene

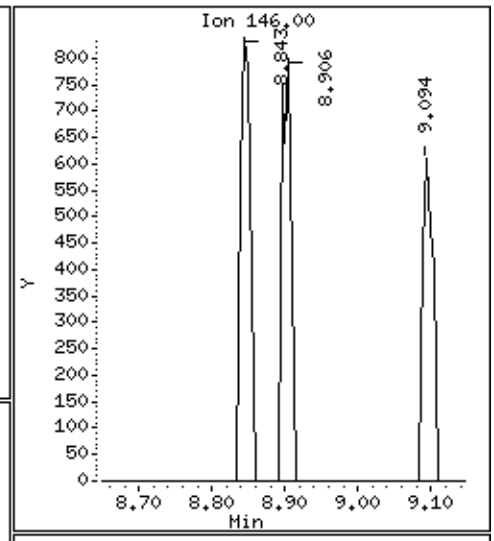
Concentration: 0.202 ppb

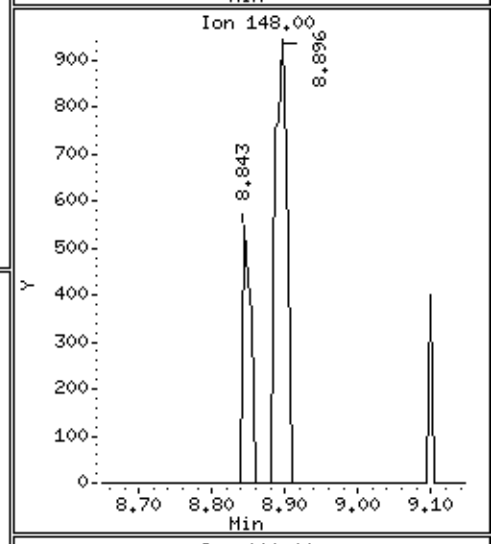


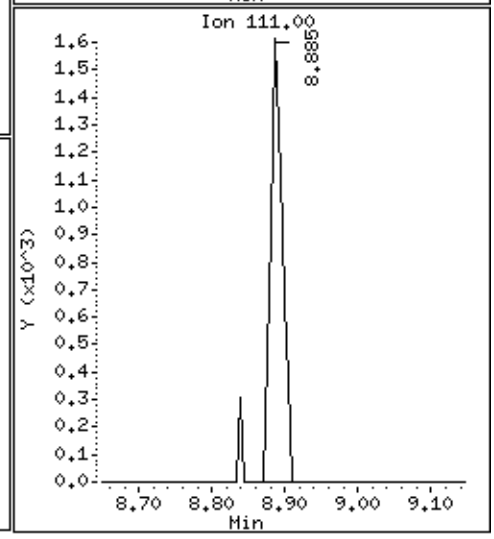












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

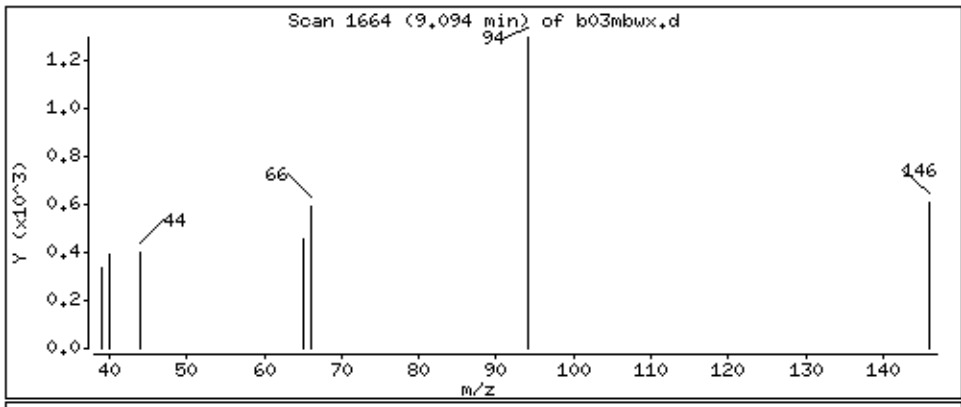
Operator: grm

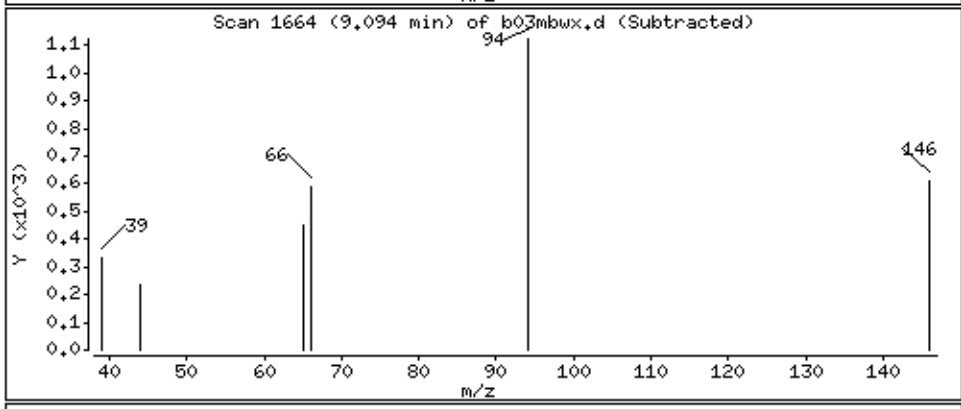
Column phase: DB-624

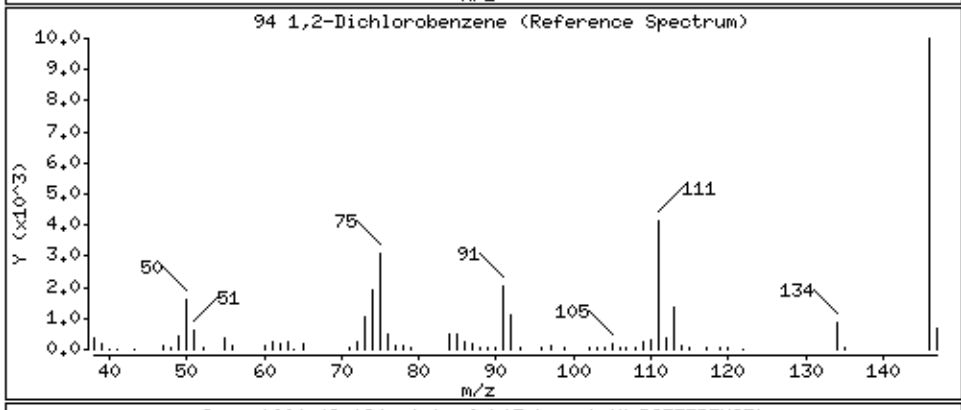
Column diameter: 0.18

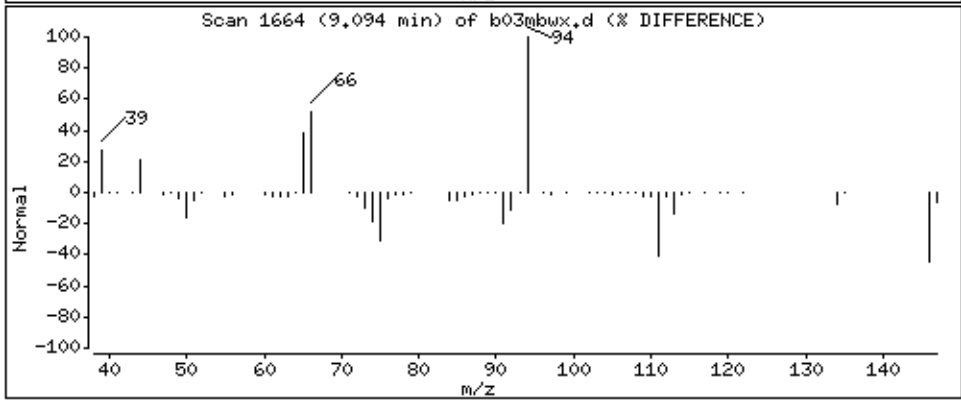
94 1,2-Dichlorobenzene

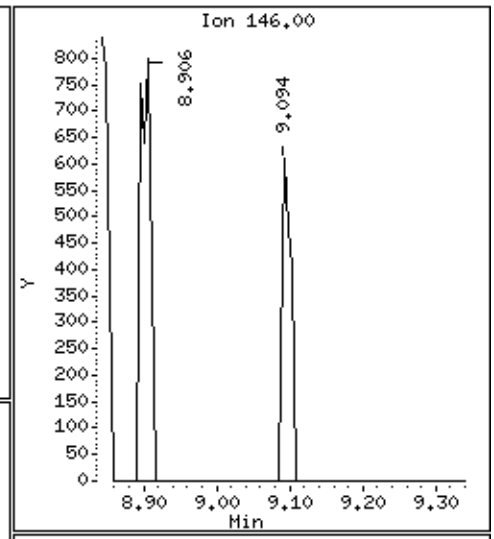
Concentration: 0.172 ppb

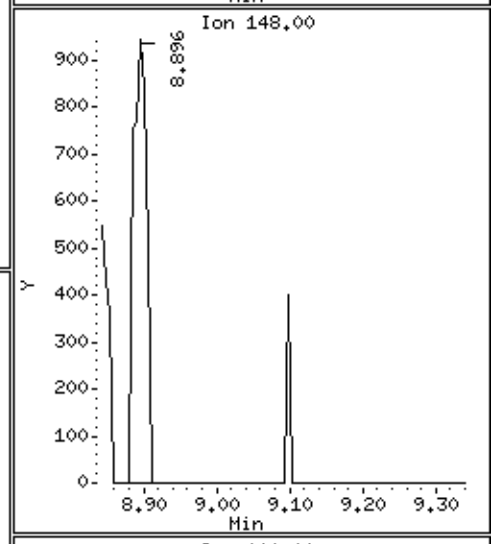


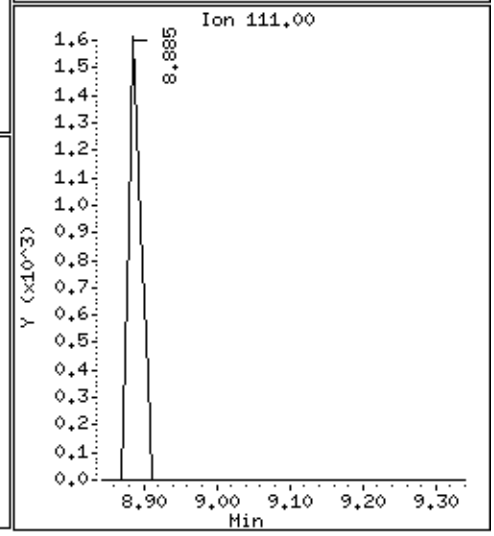












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

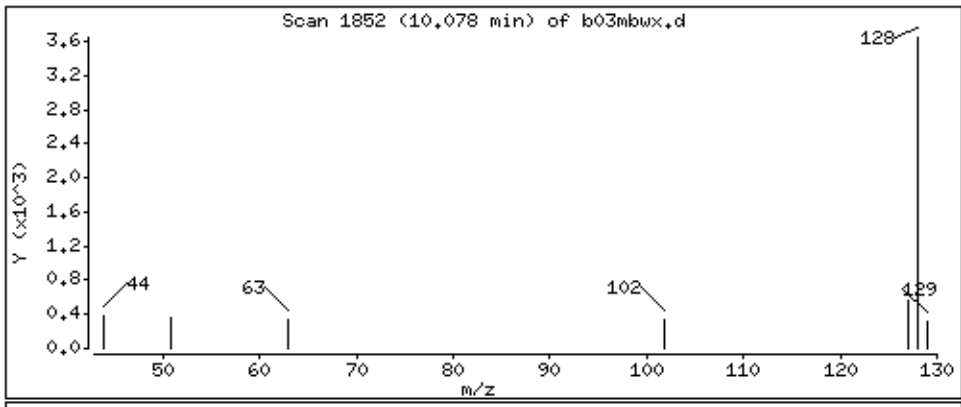
Operator: grm

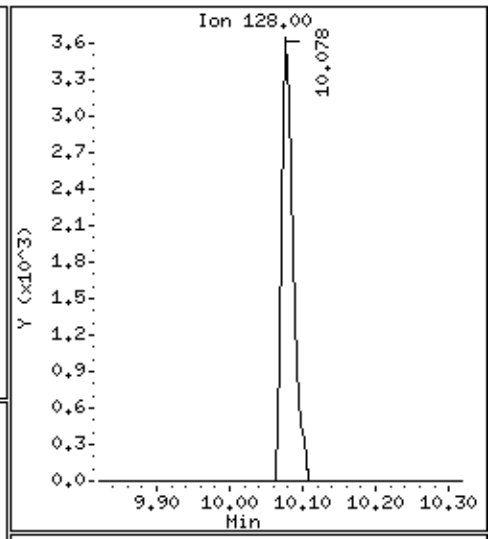
Column phase: DB-624

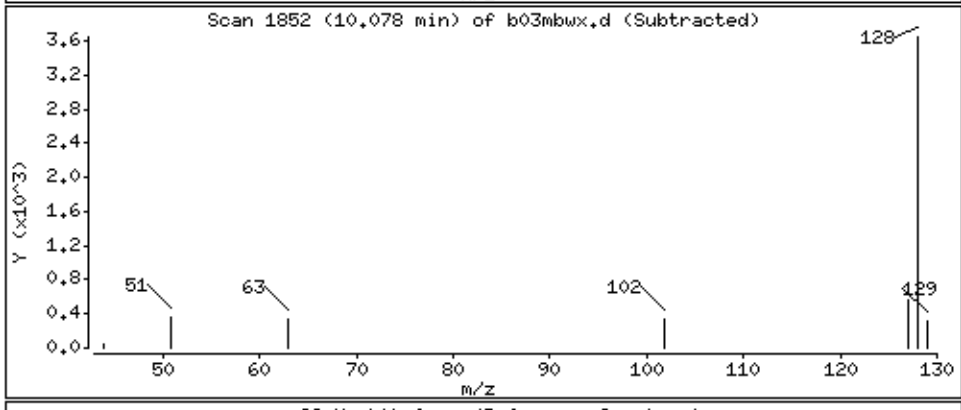
Column diameter: 0.18

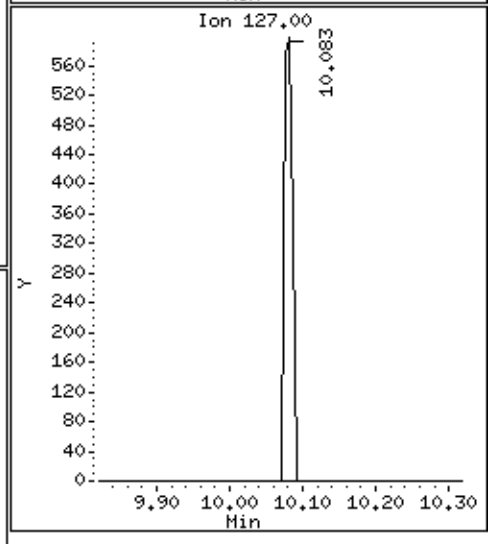
98 Naphthalene

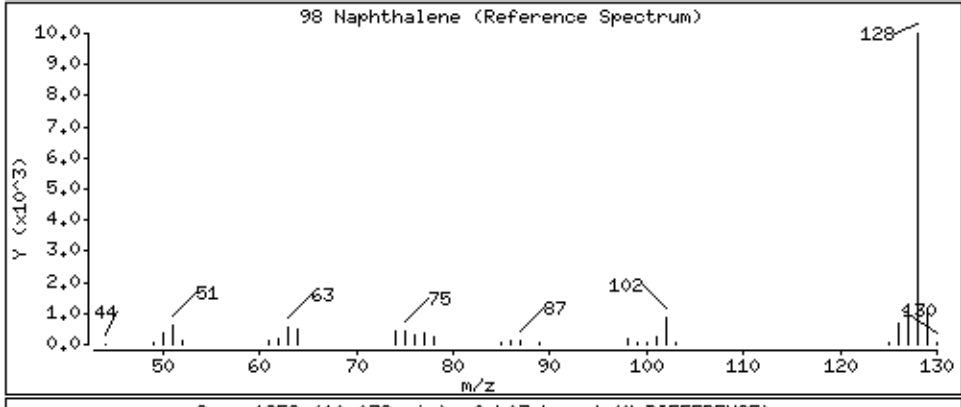
Concentration: 0.720 ppb

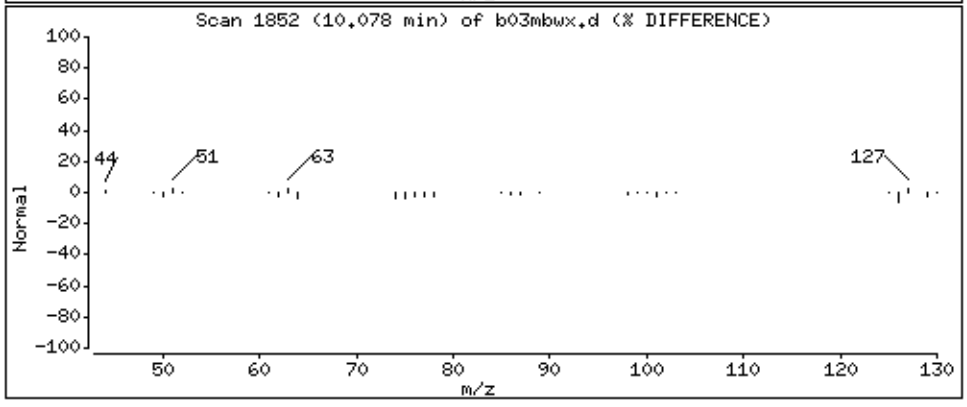












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

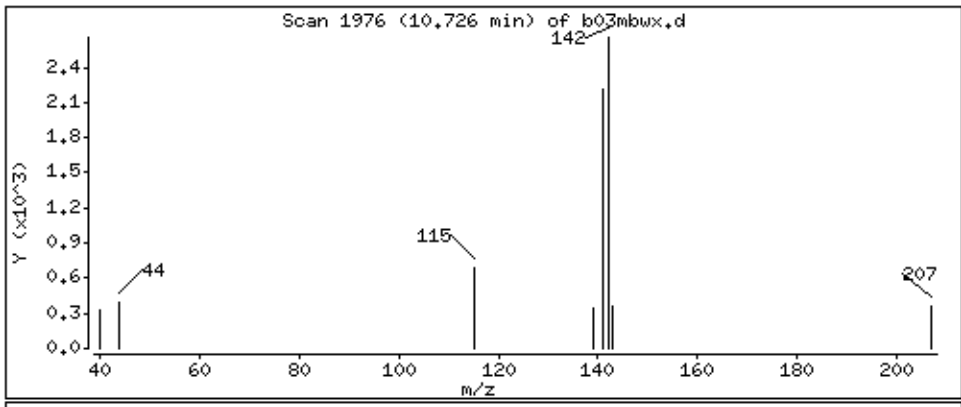
Operator: grm

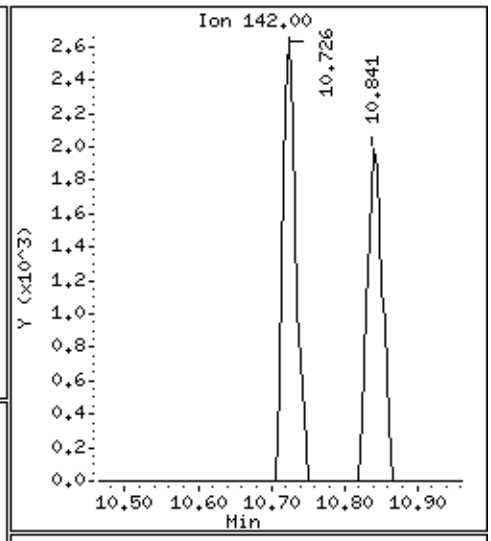
Column phase: DB-624

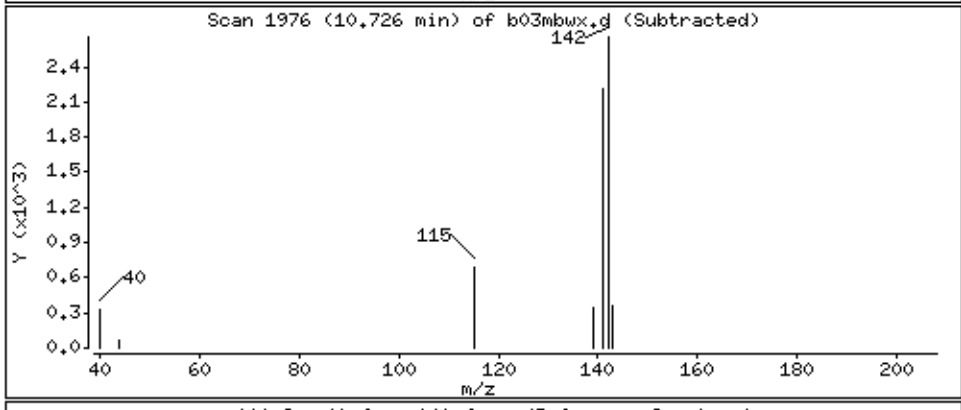
Column diameter: 0.18

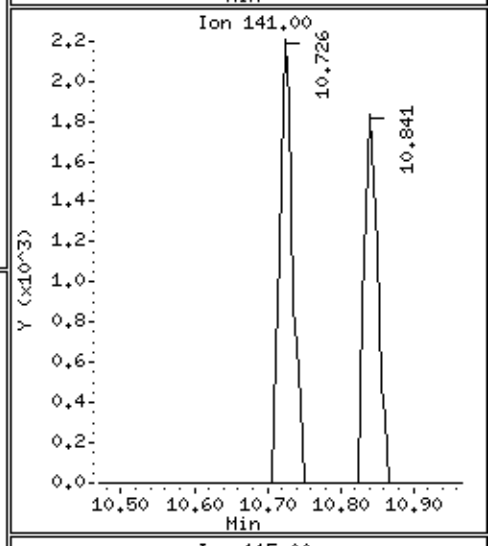
100 2,methyl-naphthalene

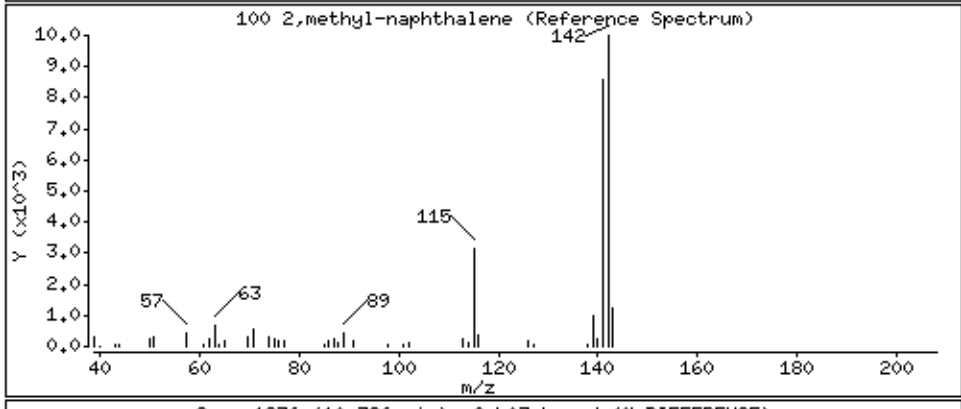
Concentration: 0.875 ppb

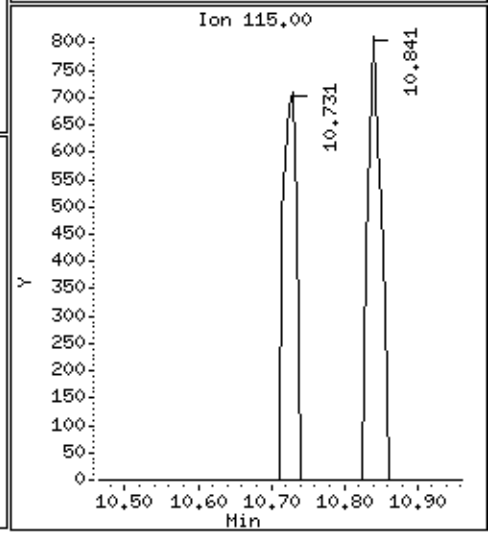


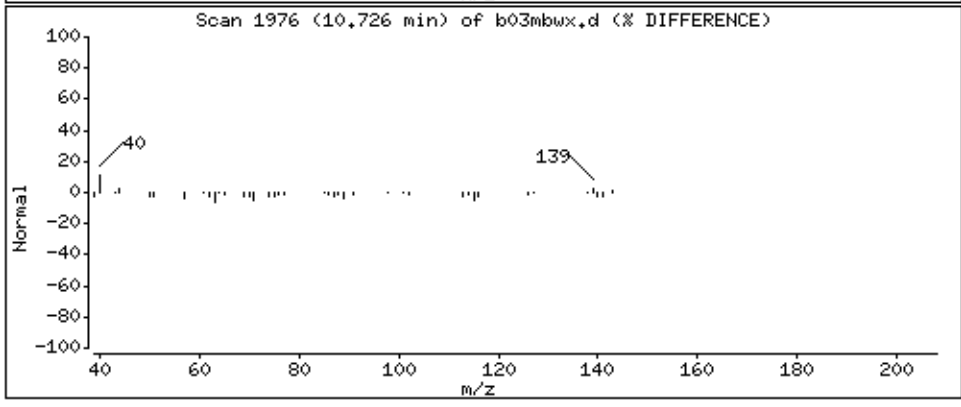












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b03mbwx.d

Date : 17-MAR-2016 13:26

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

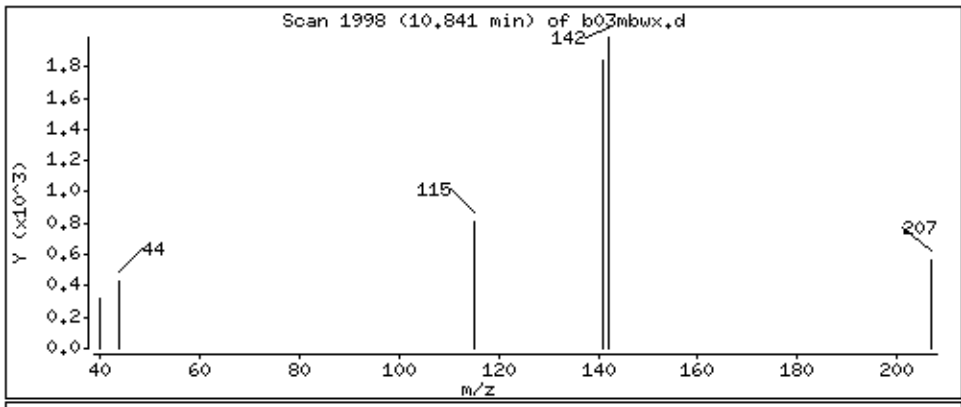
Operator: grm

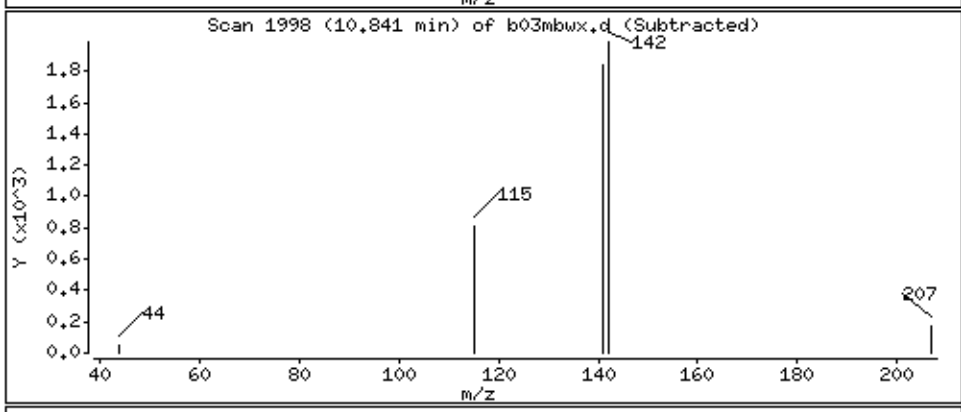
Column phase: DB-624

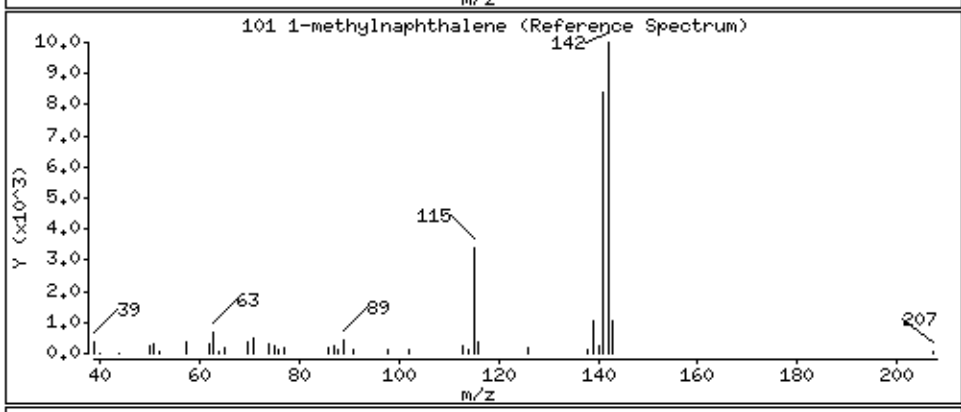
Column diameter: 0.18

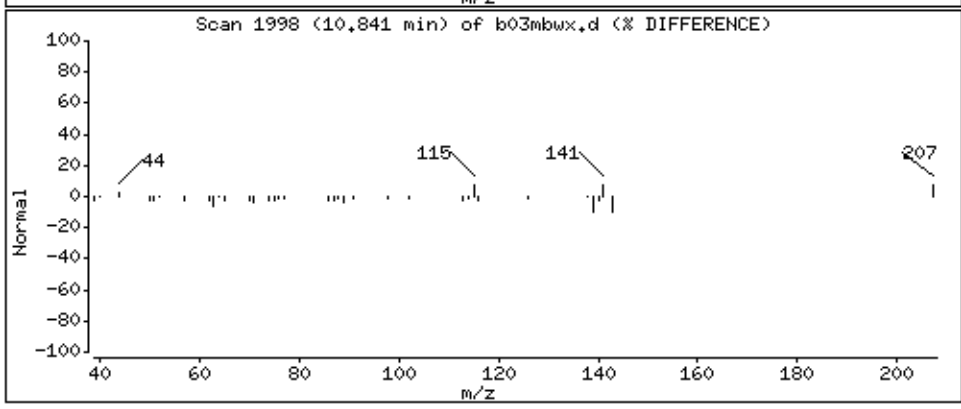
101 1-methylnaphthalene

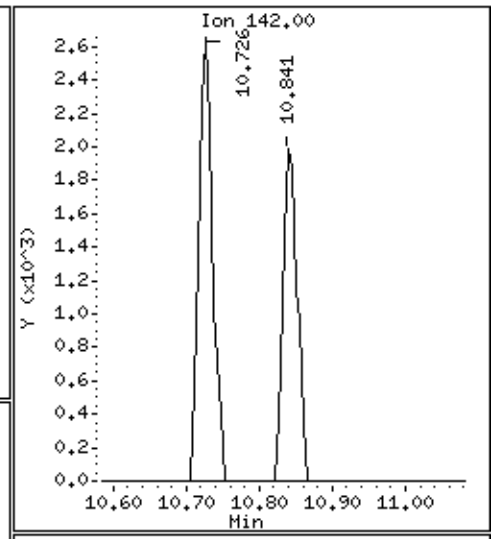
Concentration: 0.803 ppb

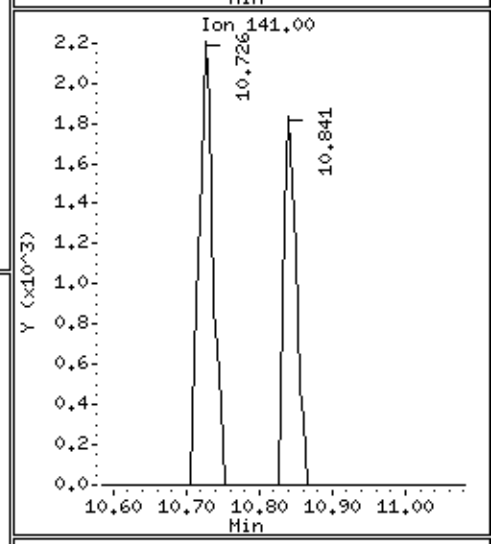


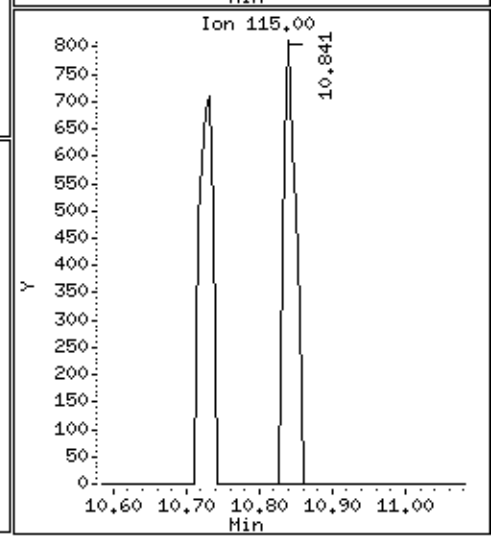












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b03mbwx.d
Injection Date: 17-MAR-2016 13:26
Instrument: 50mv1b.i
Lab Sample ID: 1500382
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/17/2016 12:51 Lab Sample ID: 1500383

Date Analyzed: 03/17/2016 12:51 Lab File ID: B031716.B\B02LCSWX.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	53.4	
108-90-7	Chlorobenzene	52.8	
67-66-3	Chloroform	52.1	
75-35-4	1,1-Dichloroethene	55.6	
156-59-2	cis-1,2-Dichloroethene	53.7	
156-60-5	trans-1,2-Dichloroethene	53.6	
78-87-5	1,2-Dichloropropane	50.6	
100-41-4	Ethylbenzene	54.1	
98-82-8	Isopropylbenzene (Cumene)	54.9	
1634-04-4	Methyl-tert-butyl ether	50.5	
79-34-5	1,1,2,2-Tetrachloroethane	50.9	
127-18-4	Tetrachloroethene	57.0	
108-88-3	Toluene	52.7	
71-55-6	1,1,1-Trichloroethane	52.9	
79-01-6	Trichloroethene	56.3	
75-01-4	Vinyl chloride	50.3	
1330-20-7	Xylene (Total)	163	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d
Lab Smp Id: 1500383,117024:5 Client Smp ID: LCSw,117024:5
Inj Date : 17-MAR-2016 12:51
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1500383,117024:5
Misc Info : 88039
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 18-Mar-2016 15:23 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 53 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

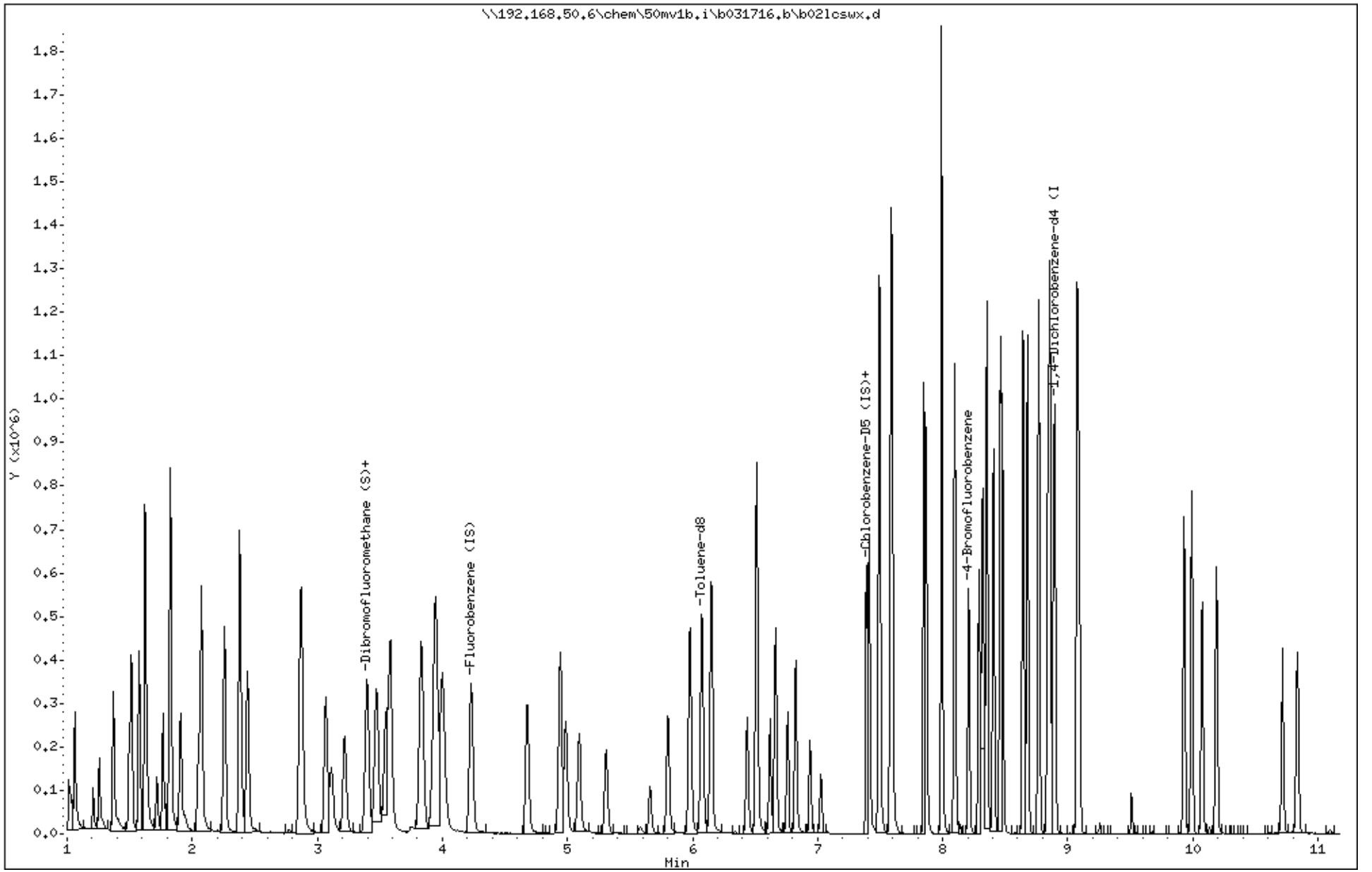
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	154114	50.2674	50.3	
	11 1,1-Dichloroethene	96	1.628	1.627	(0.385)	86047	55.6130	55.6	
	21 Methyl-tert-butyl ether	73	2.067	2.066	(0.488)	214435	50.4585	50.4	
	22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	94580	53.6019	53.6	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	98723	53.7294	53.7	
	35 Chloroform	83	3.218	3.217	(0.760)	171312	52.1154	52.1	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	156892	52.8989	52.9	
$	38 Dibromofluoromethane (S)	113	3.395	3.395	(0.802)	83259	47.9667	48.0	
	42 Benzene	78	3.835	3.834	(0.906)	362899	53.4296	53.4	
*	46 Fluorobenzene (IS)	96	4.232	4.231	(1.000)	334260	50.0000		
	47 Trichloroethene	95	4.677	4.681	(1.105)	100644	56.3370	56.3	
	49 1,2-Dichloropropane	63	4.991	4.990	(1.179)	89039	50.6023	50.6	
$	57 Toluene-d8	98	6.073	6.072	(0.822)	306297	51.2597	51.2	
	58 Toluene	91	6.146	6.146	(0.832)	386372	52.7181	52.7	
	62 Tetrachloroethene	166	6.664	6.663	(0.902)	113730	57.0155	57.0	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.390	(1.000)	230129	50.0000		
	68 Chlorobenzene	112	7.412	7.411	(1.003)	249280	52.8299	52.8	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	140139	54.1172	54.1	
	71 m&p-Xylene	106	7.590	7.589	(1.027)	353909	109.172	109	
	72 o-Xylene	106	7.851	7.851	(1.062)	171094	53.9175	53.9	
	75 Isopropylbenzene	105	8.097	8.096	(1.096)	490627	54.8670	54.9	
$	76 4-Bromofluorobenzene	95	8.207	8.206	(1.110)	112043	53.6331	53.6	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.300	(0.934)	78674	50.9161	50.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	390493	52.5608	52.6	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.886	(1.000)	128639	50.0000		
98 Naphthalene	128	10.074	10.068	(1.134)	314410	47.8221	47.8	

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d
Date : 17-MAR-2016 12:51
Client ID: LCSw,117024:5
Instrument: 50mv1b.i
Sample Info: 1500383,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

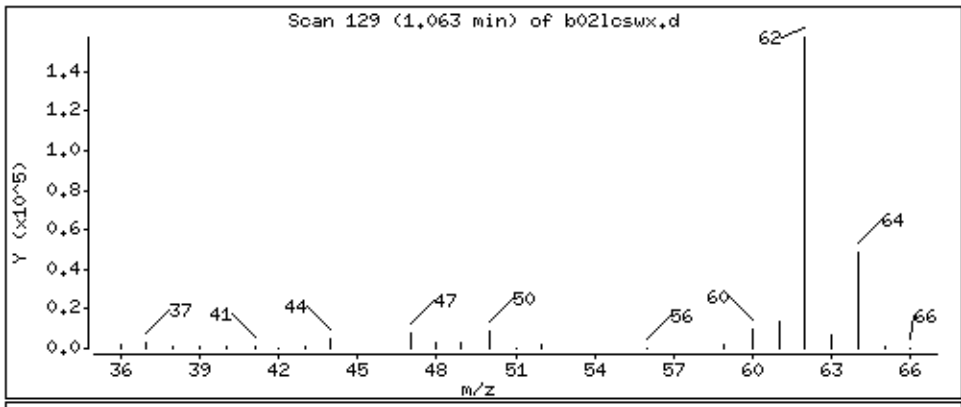
Operator: grm

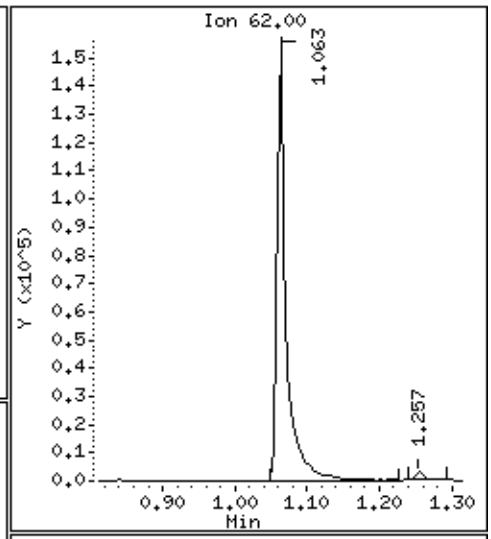
Column phase: DB-624

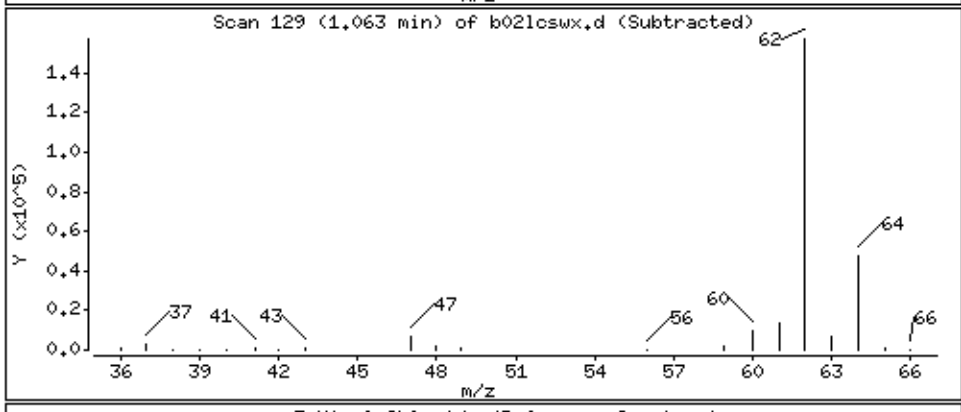
Column diameter: 0.18

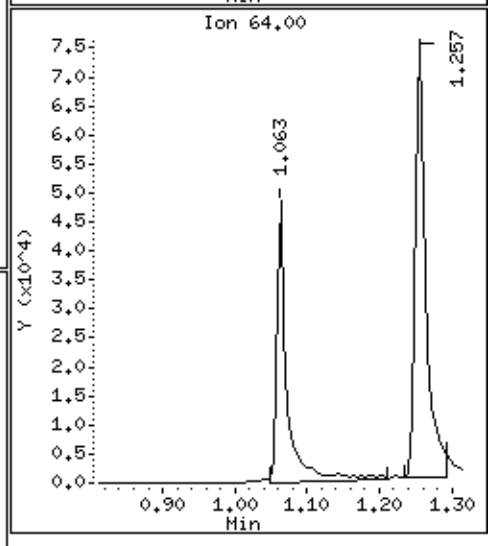
3 Vinyl Chloride

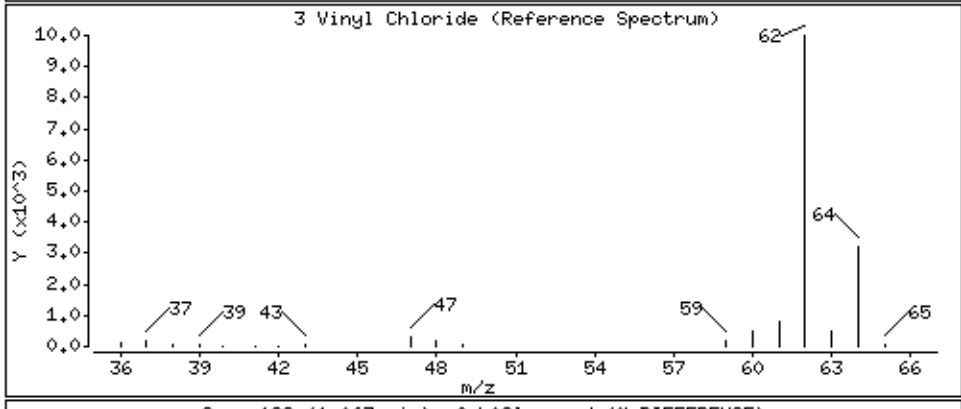
Concentration: 50.3 ppb

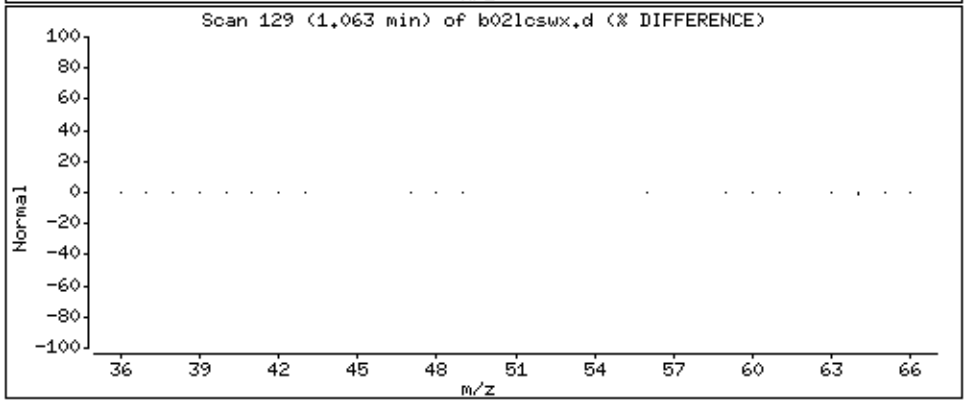












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

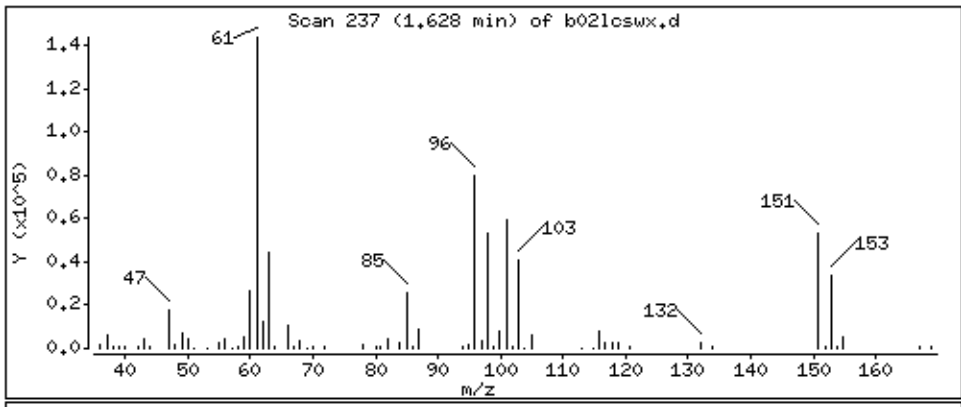
Operator: grm

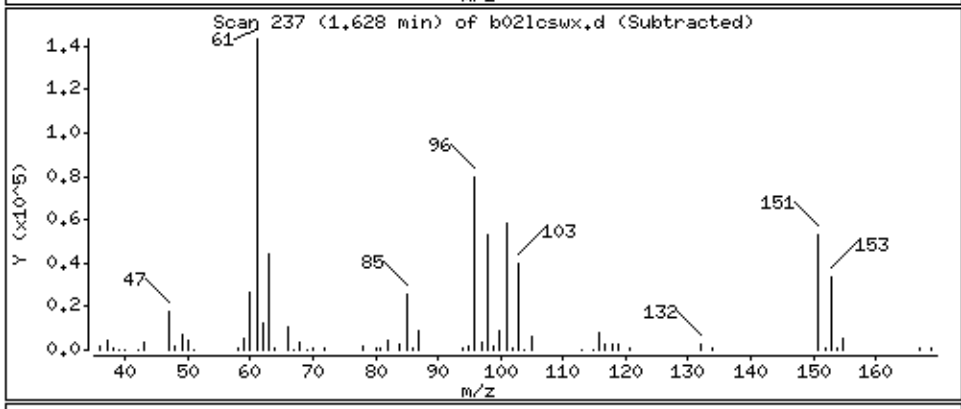
Column phase: DB-624

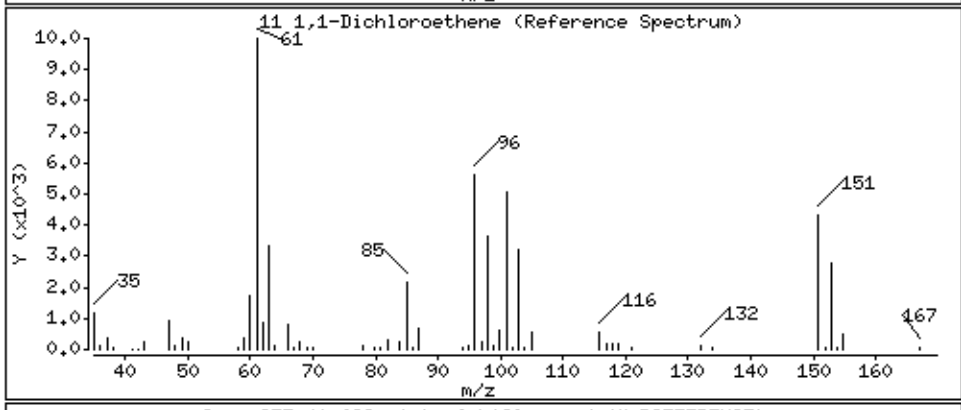
Column diameter: 0.18

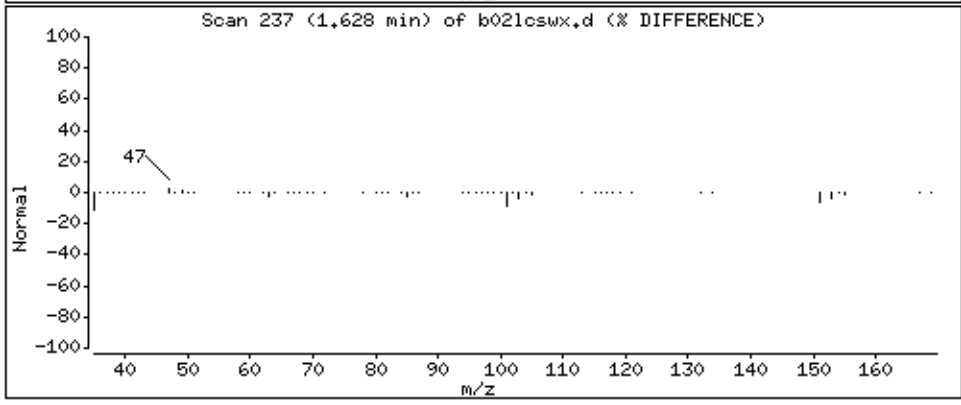
11 1,1-Dichloroethene

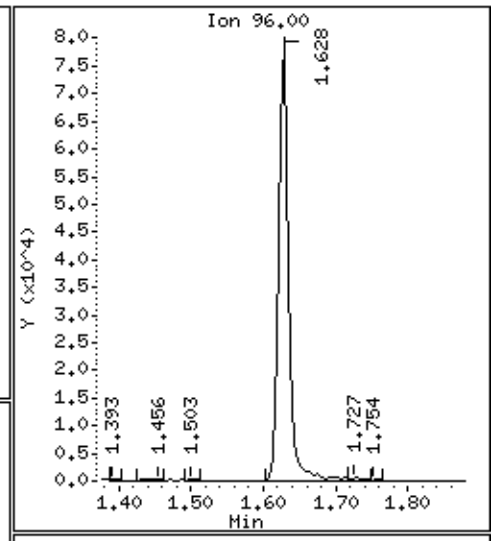
Concentration: 55.6 ppb

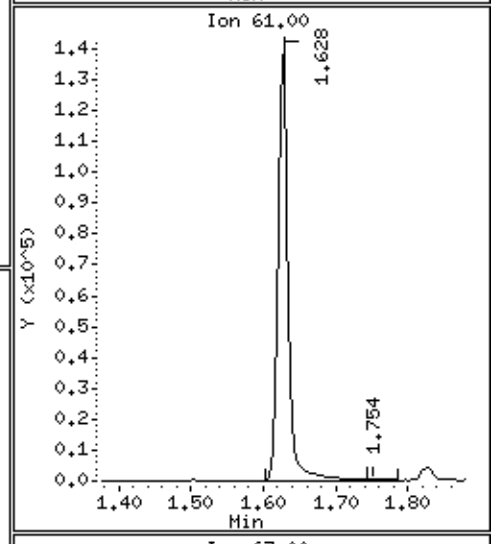


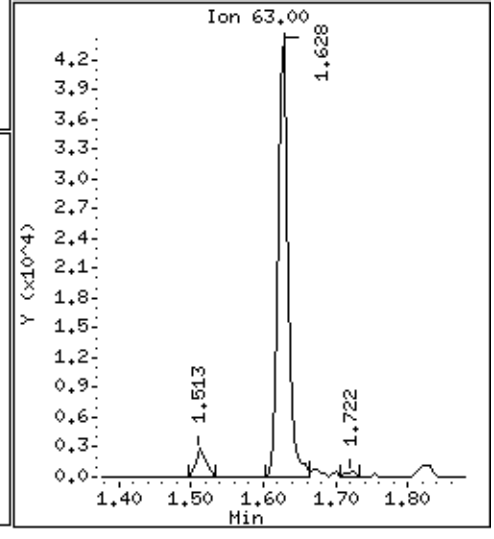












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

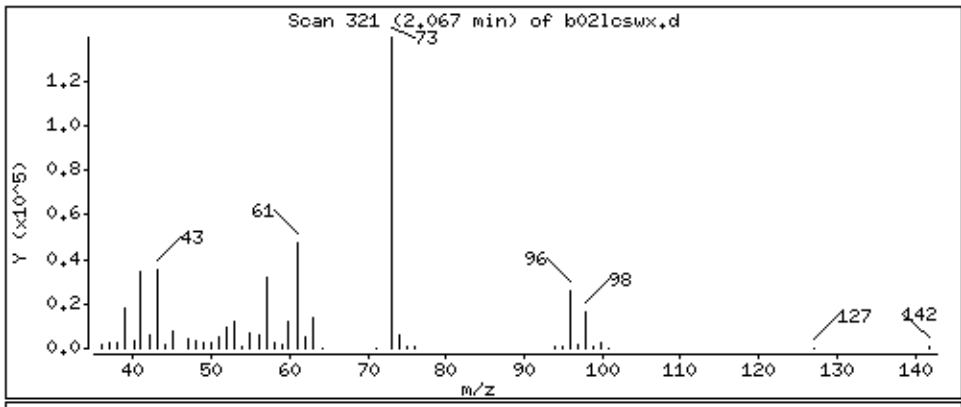
Operator: grm

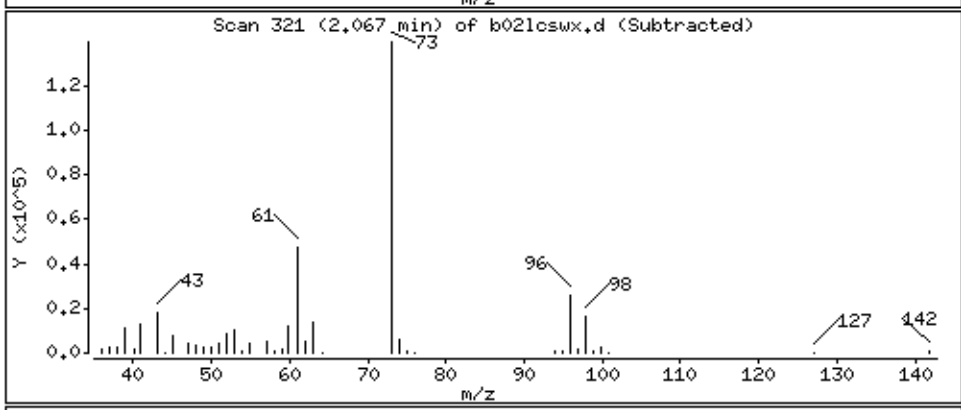
Column phase: DB-624

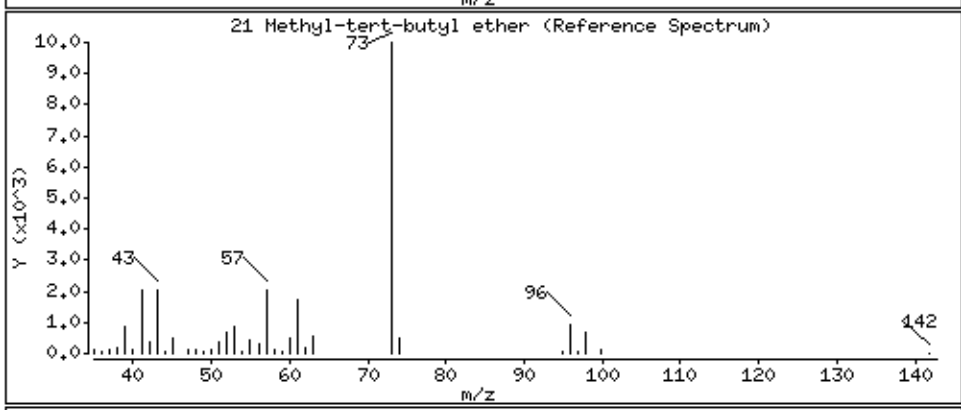
Column diameter: 0.18

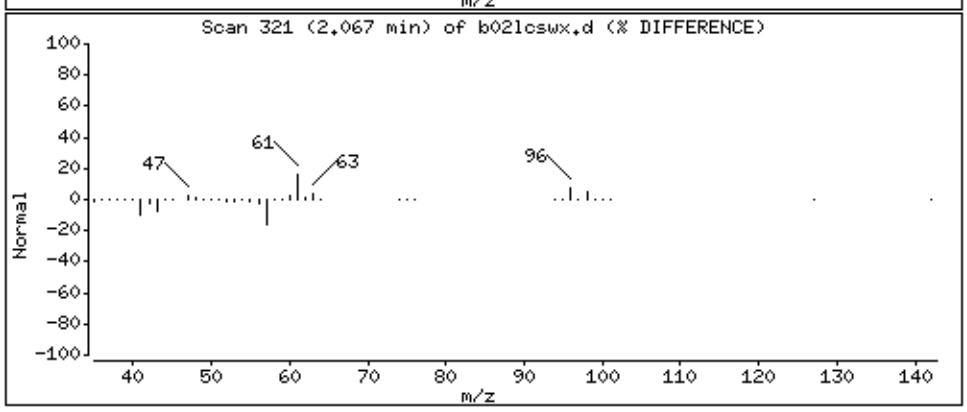
21 Methyl-tert-butyl ether

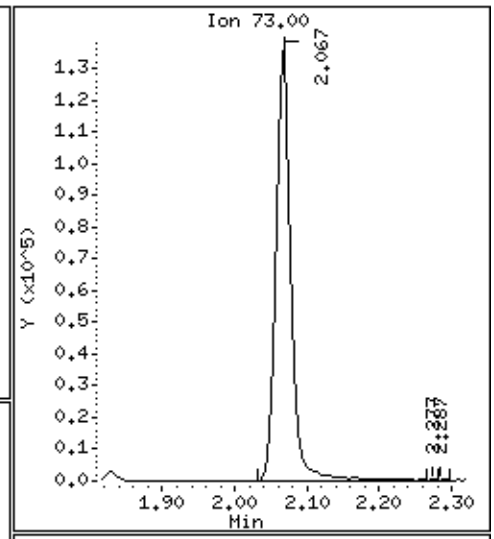
Concentration: 50.4 ppb

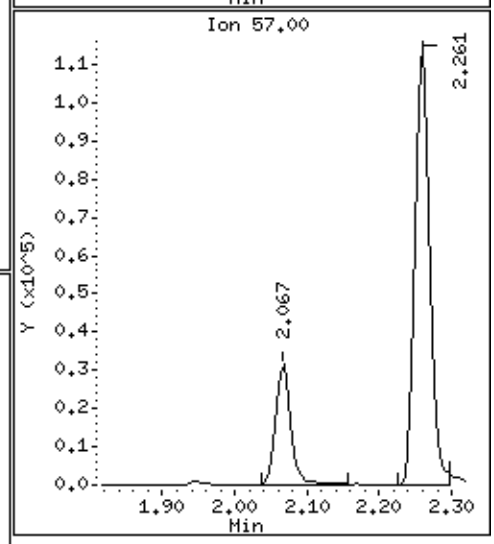












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

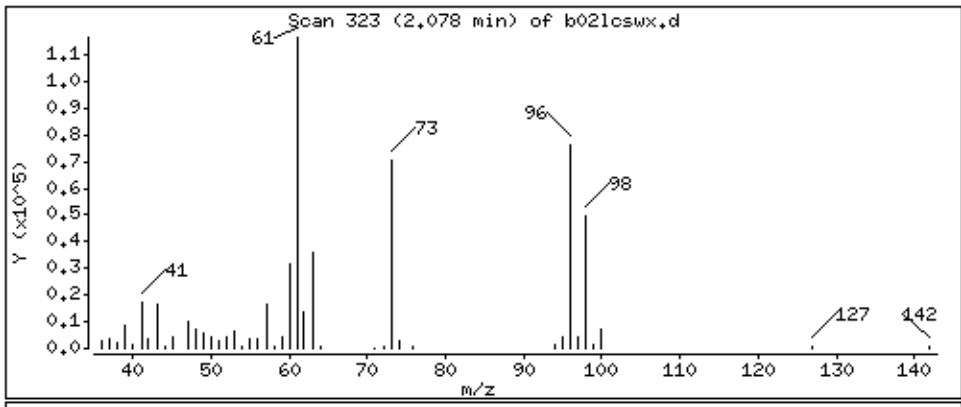
Operator: grm

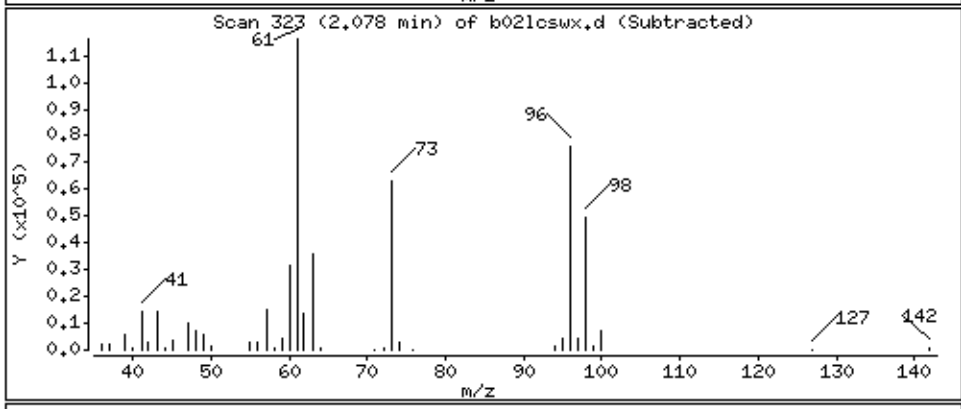
Column phase: DB-624

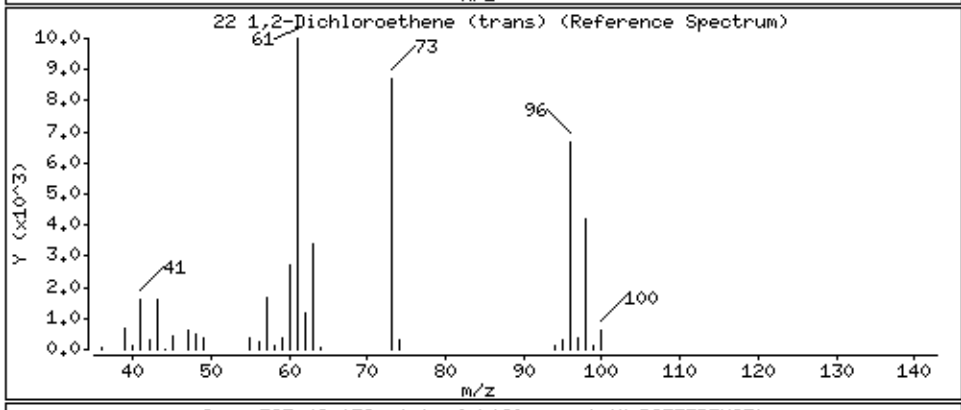
Column diameter: 0.18

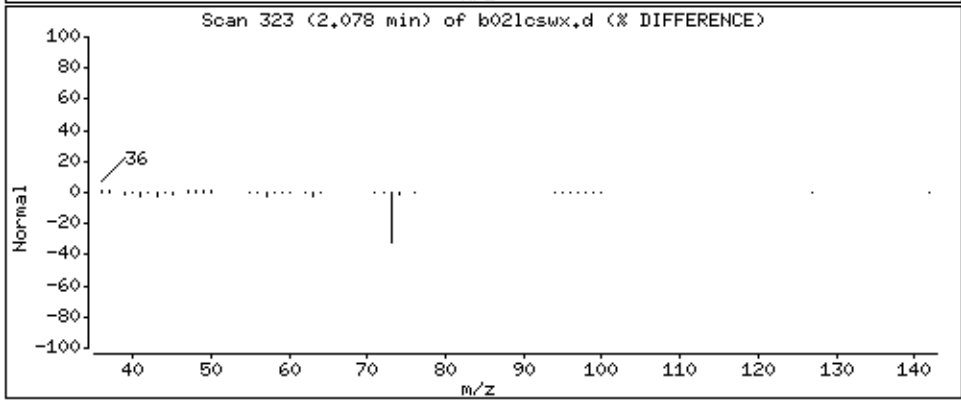
22 1,2-Dichloroethene (trans)

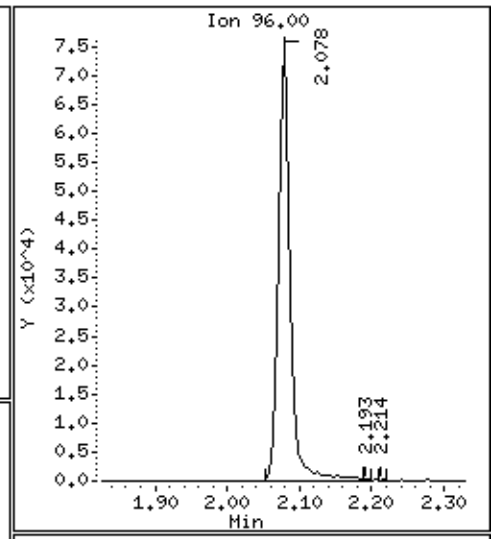
Concentration: 53.6 ppb

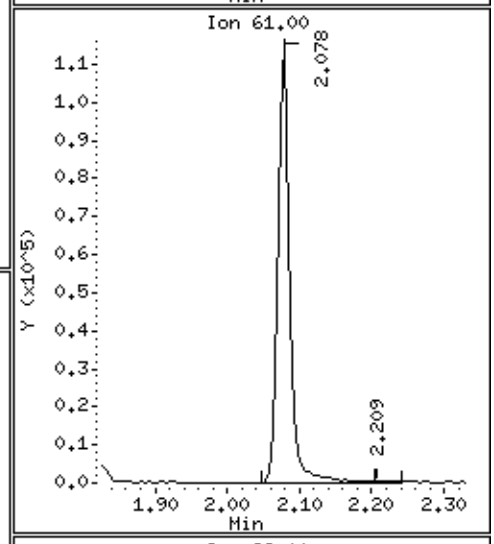


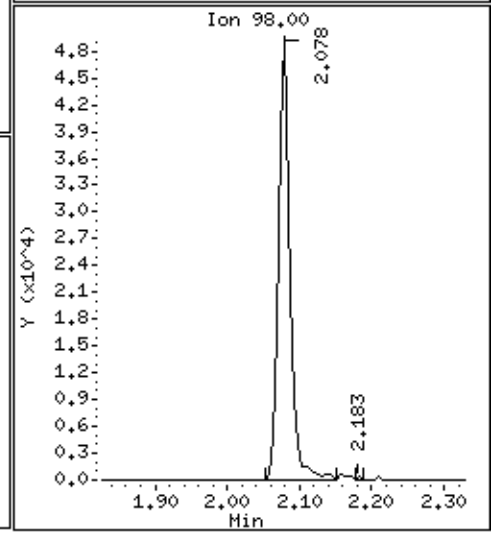












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

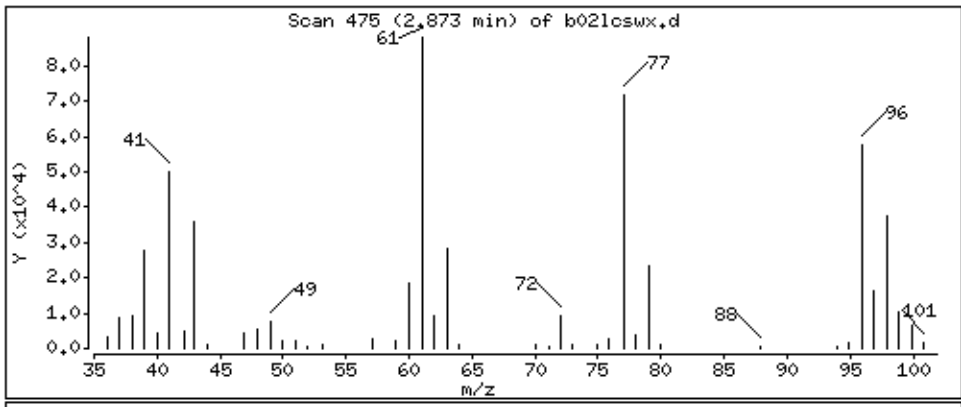
Operator: grm

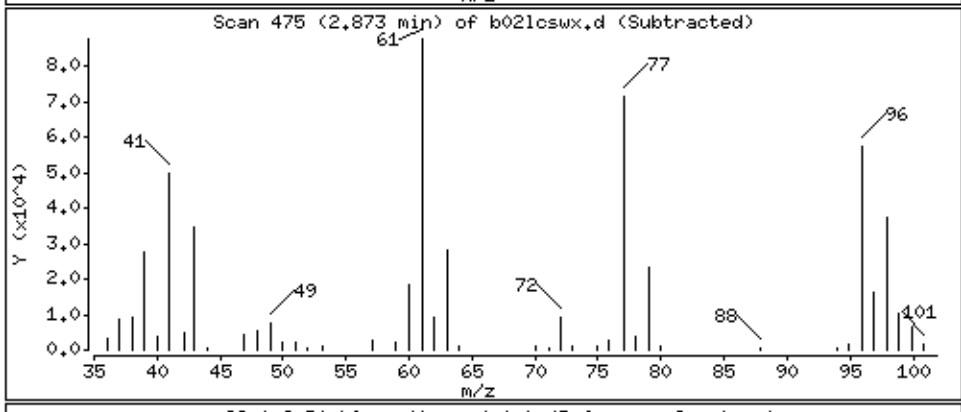
Column phase: DB-624

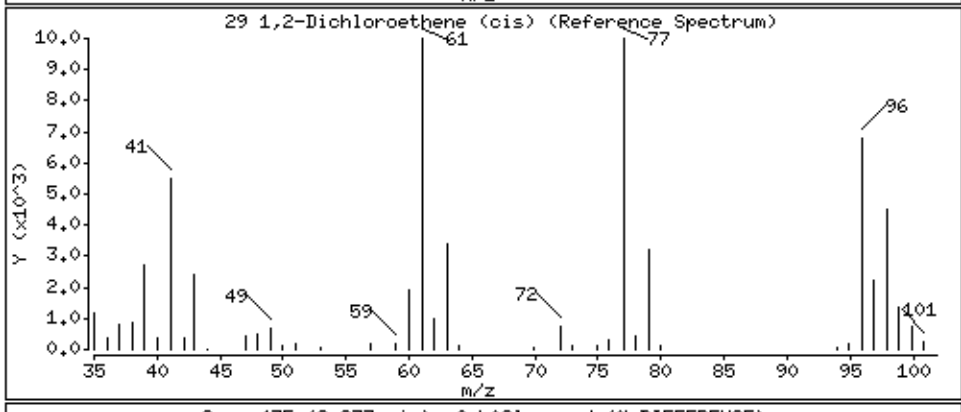
Column diameter: 0.18

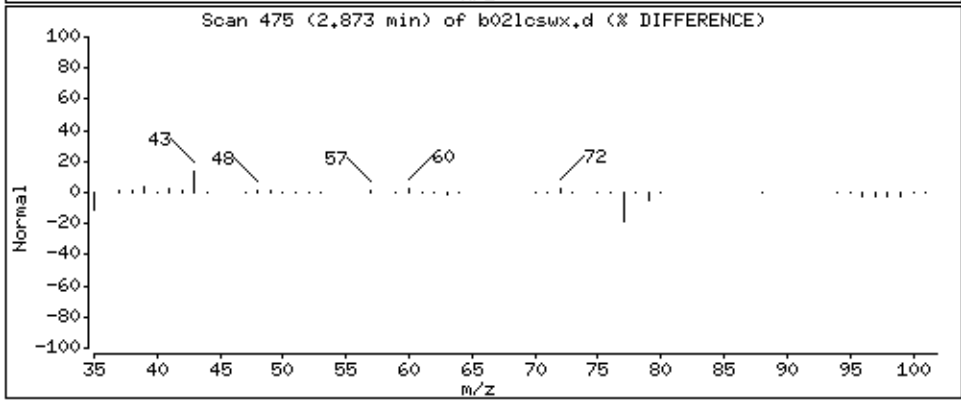
29 1,2-Dichloroethene (cis)

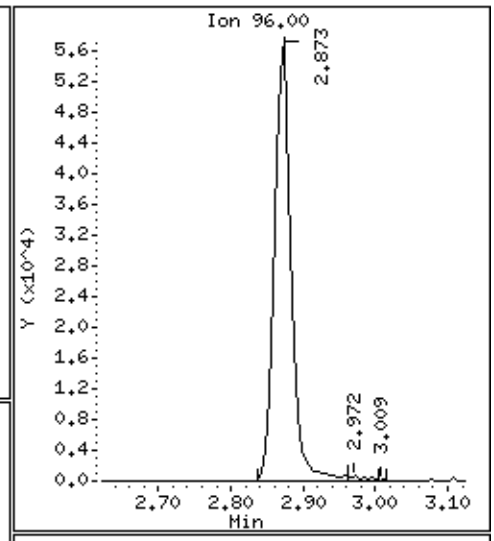
Concentration: 53.7 ppb

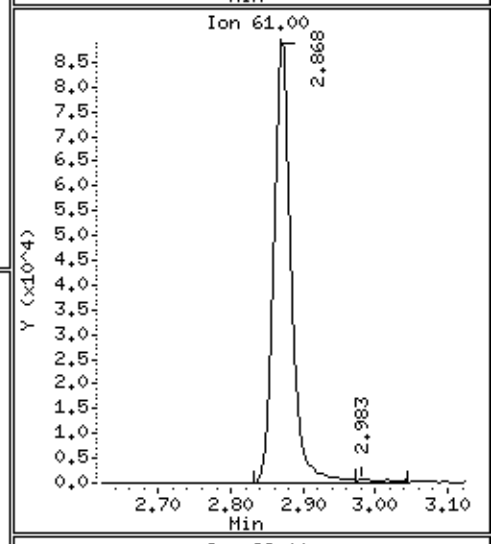


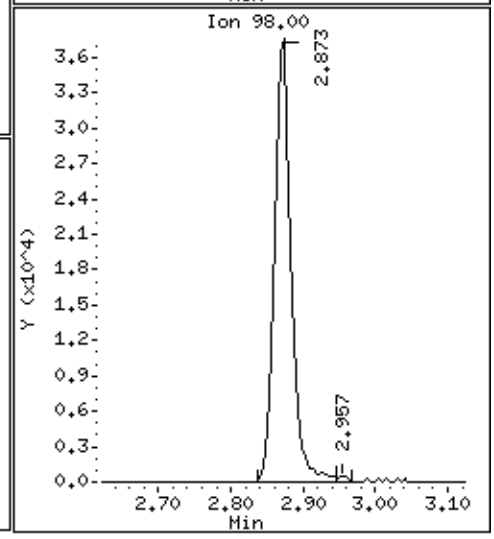












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

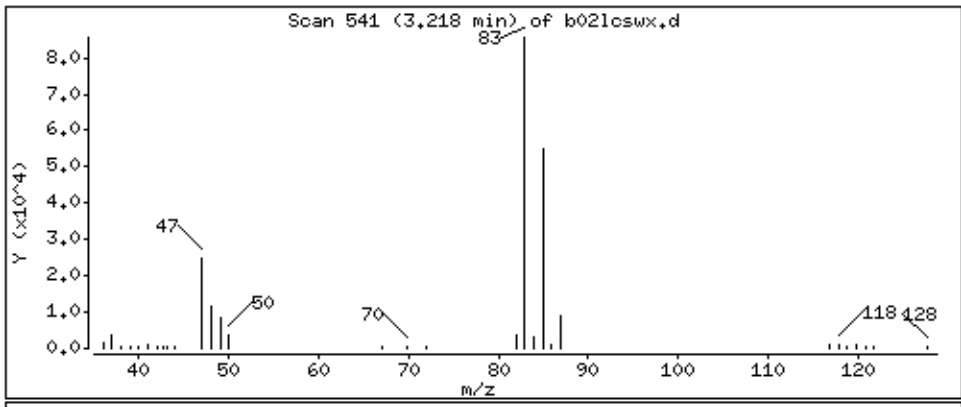
Operator: grm

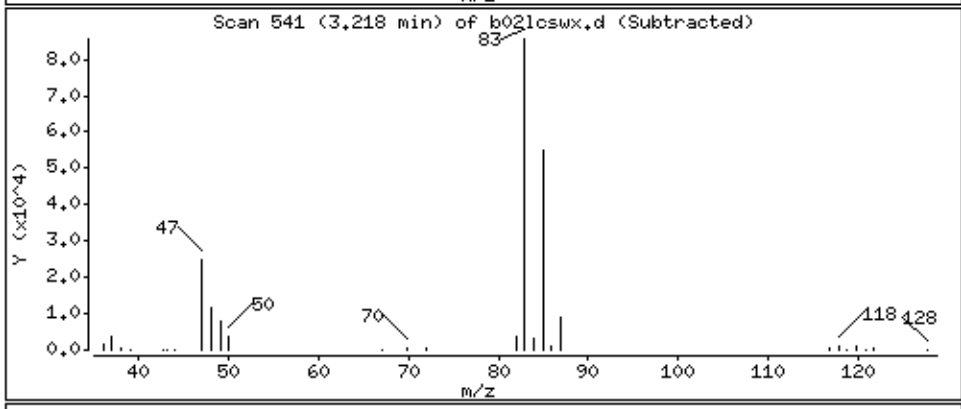
Column phase: DB-624

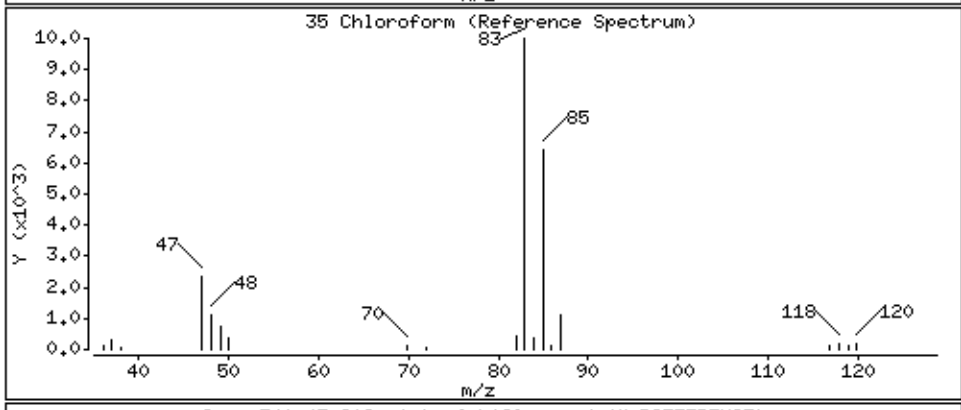
Column diameter: 0.18

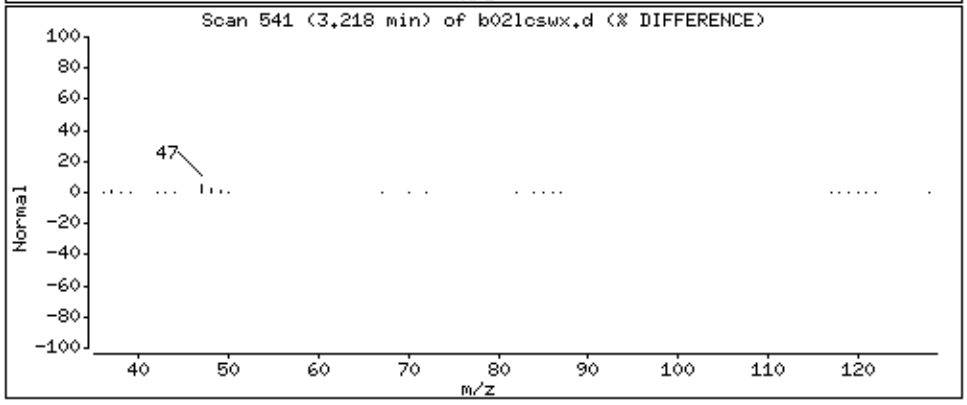
35 Chloroform

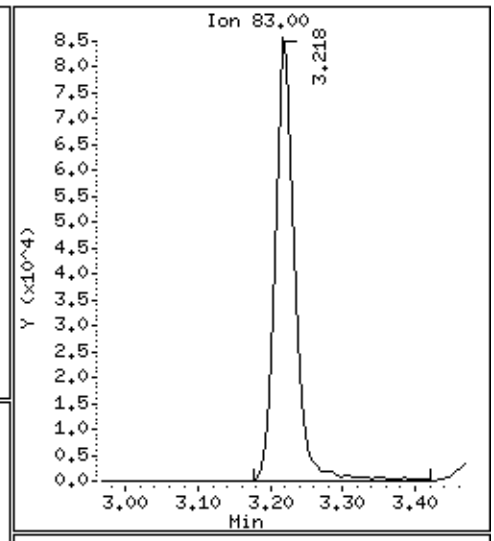
Concentration: 52.1 ppb

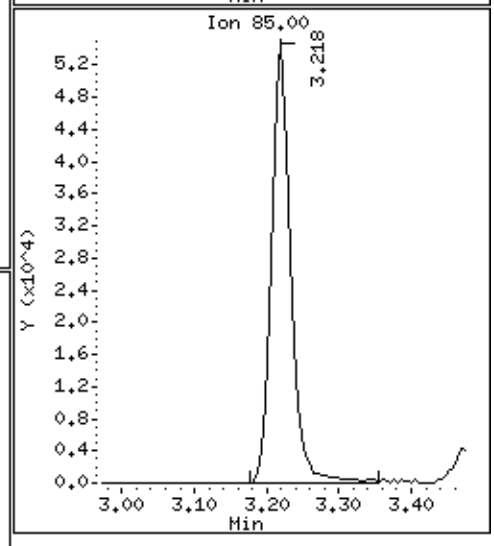












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

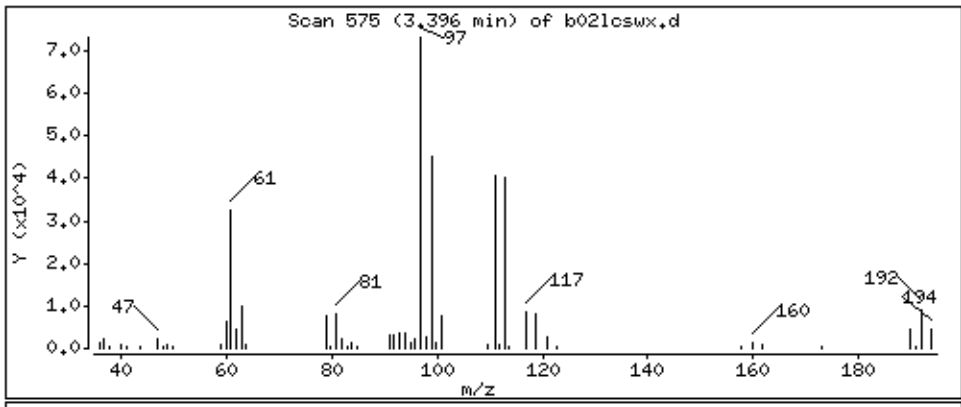
Operator: grm

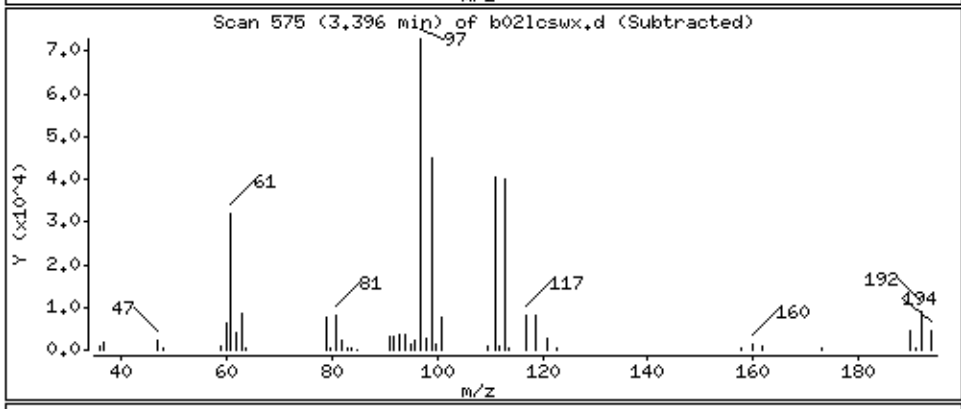
Column phase: DB-624

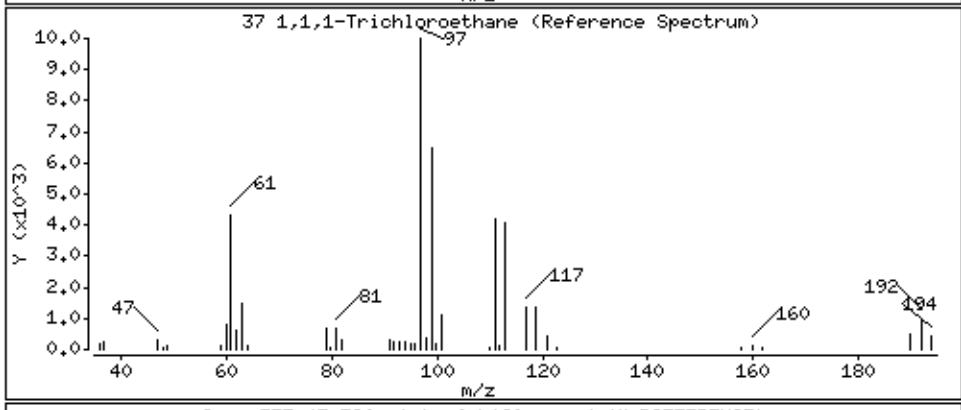
Column diameter: 0.18

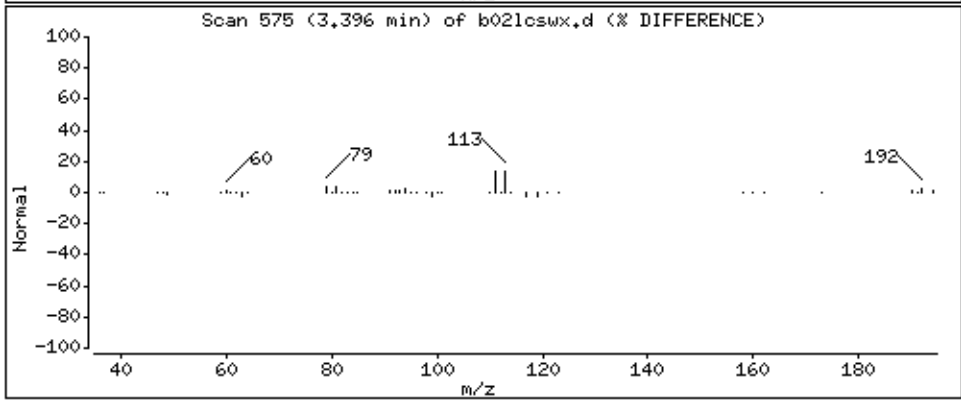
37 1,1,1-Trichloroethane

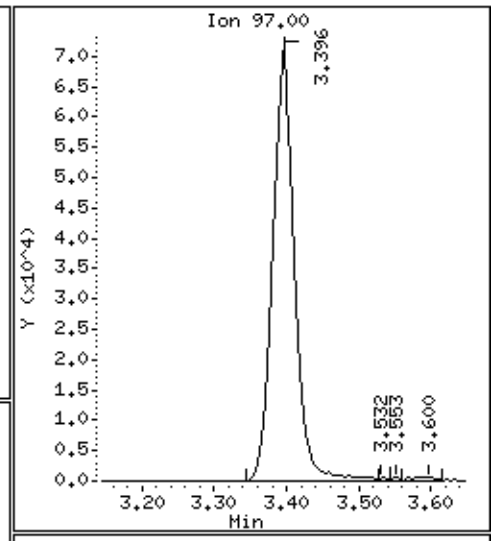
Concentration: 52.9 ppb

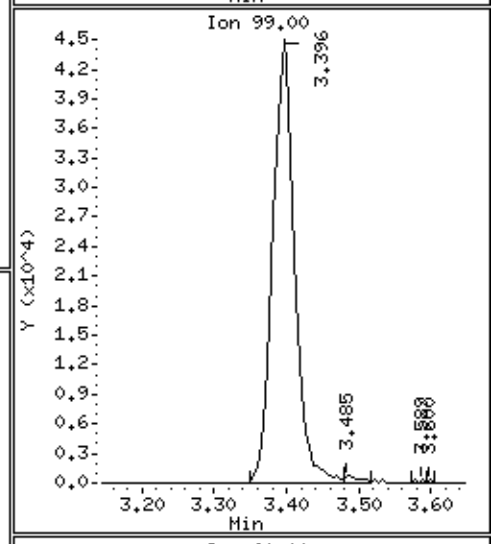


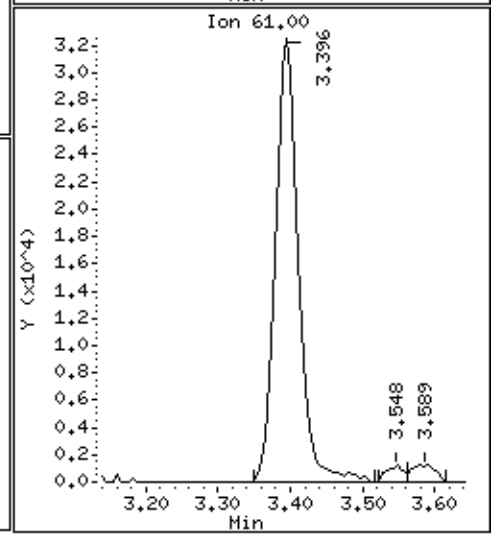












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Page 11

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

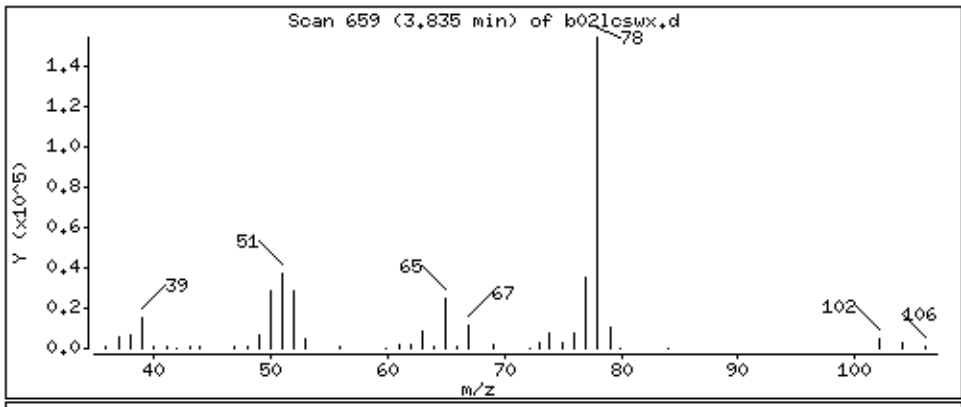
Operator: grm

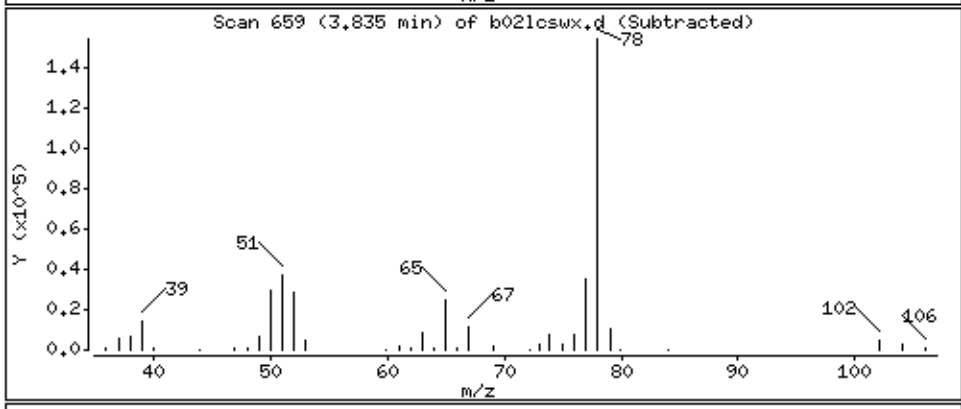
Column phase: DB-624

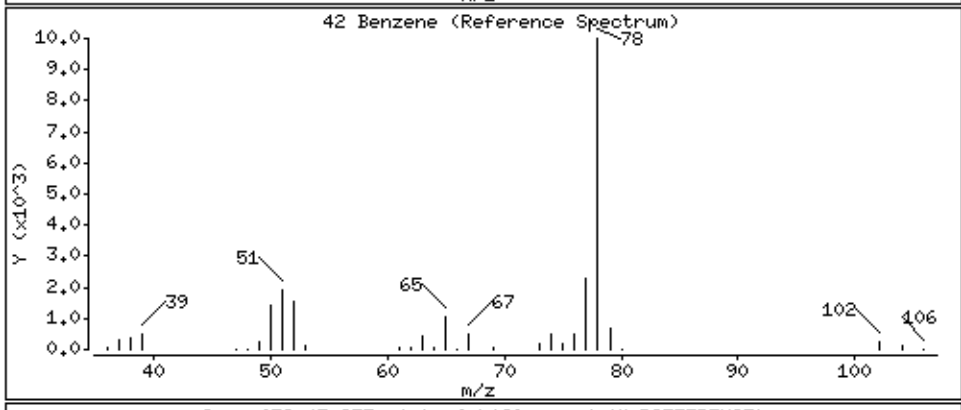
Column diameter: 0.18

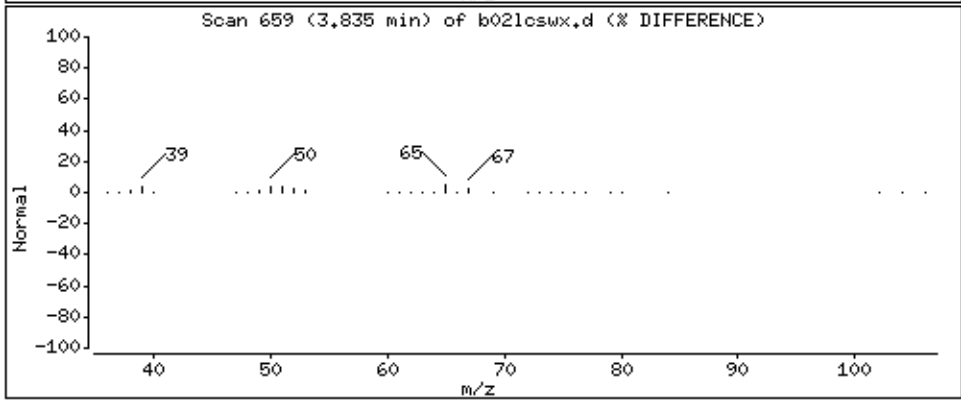
42 Benzene

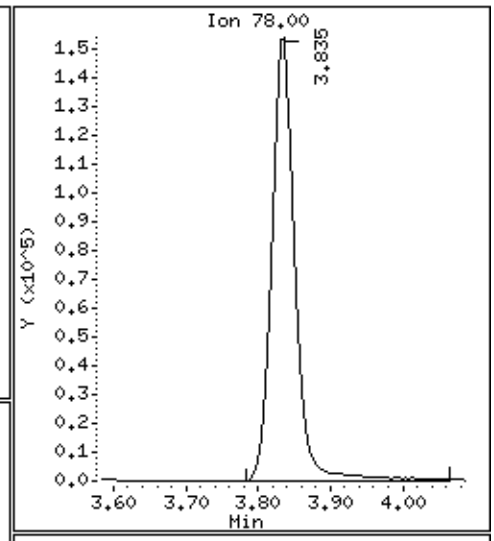
Concentration: 53.4 ppb

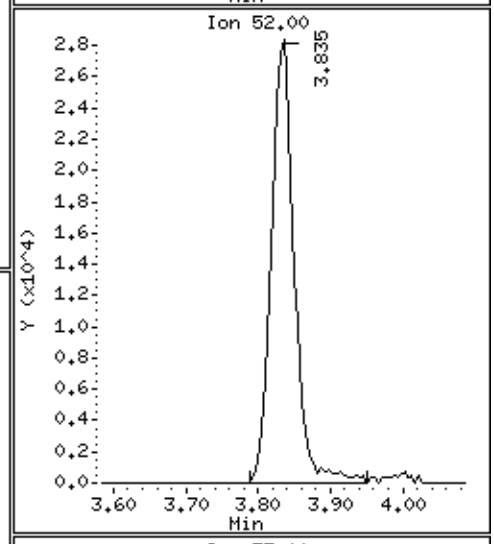


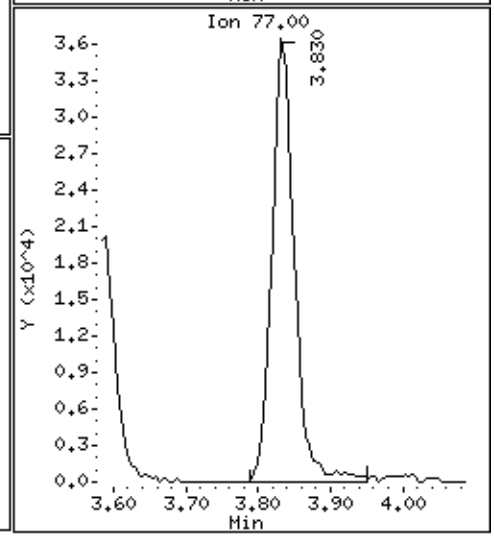












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

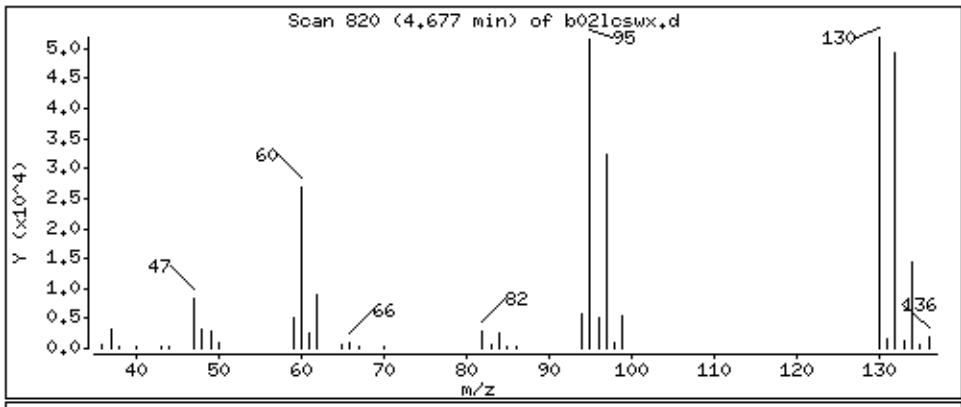
Operator: grm

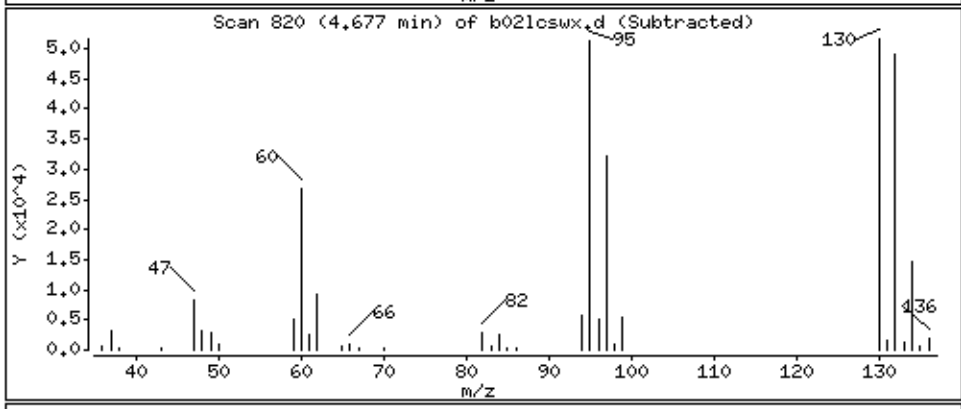
Column phase: DB-624

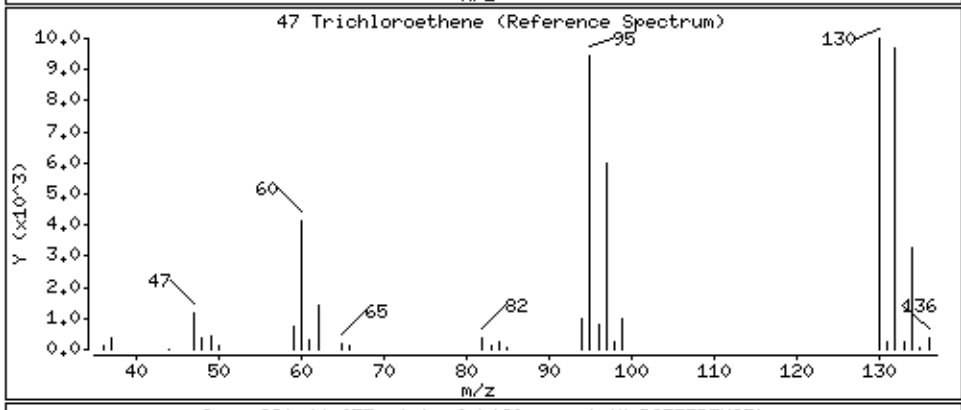
Column diameter: 0.18

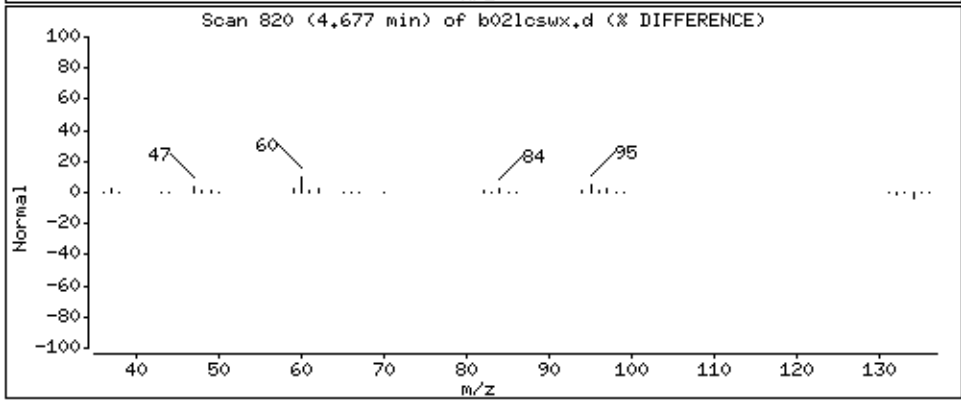
47 Trichloroethene

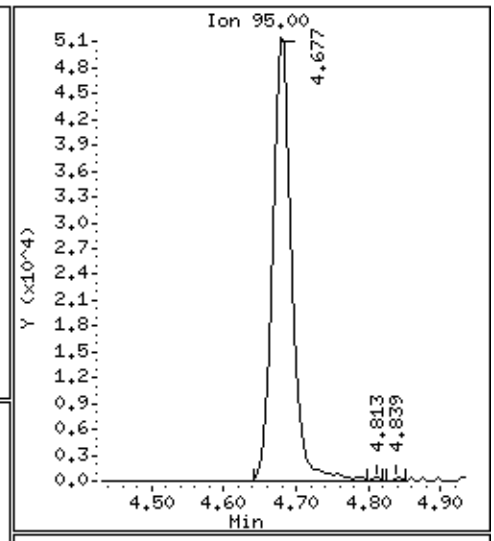
Concentration: 56.3 ppb

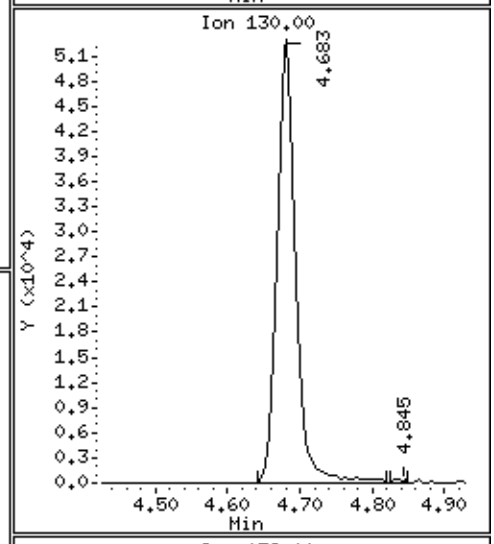


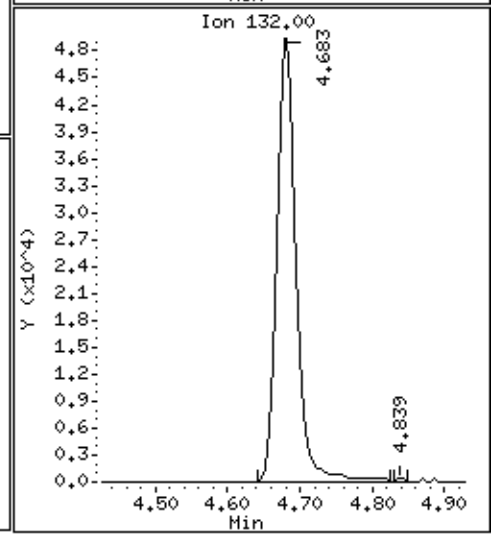












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

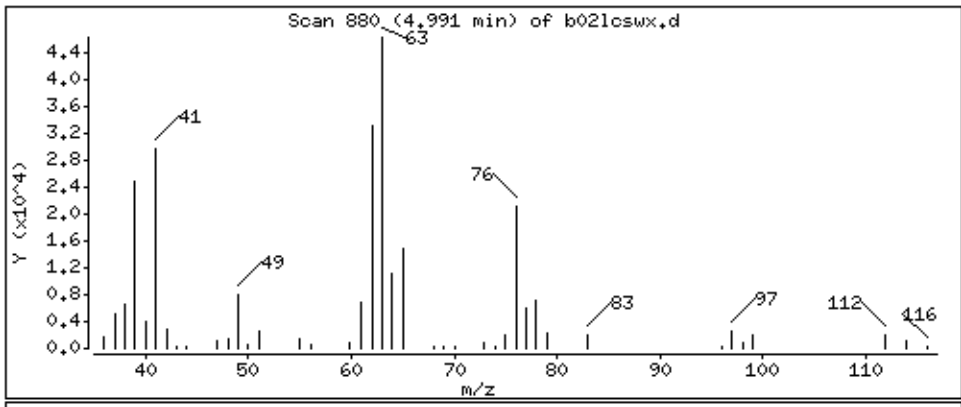
Operator: grm

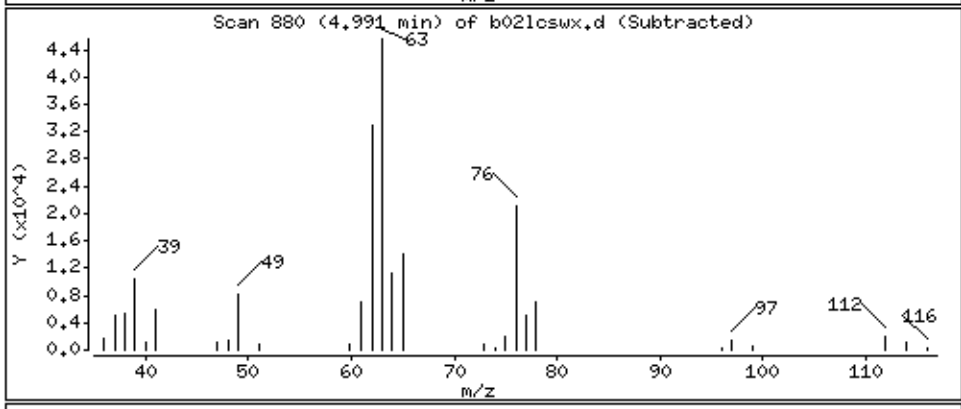
Column phase: DB-624

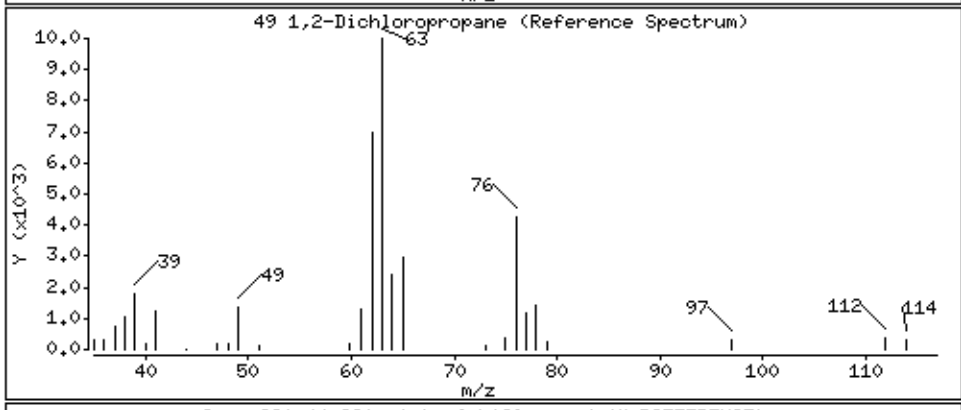
Column diameter: 0.18

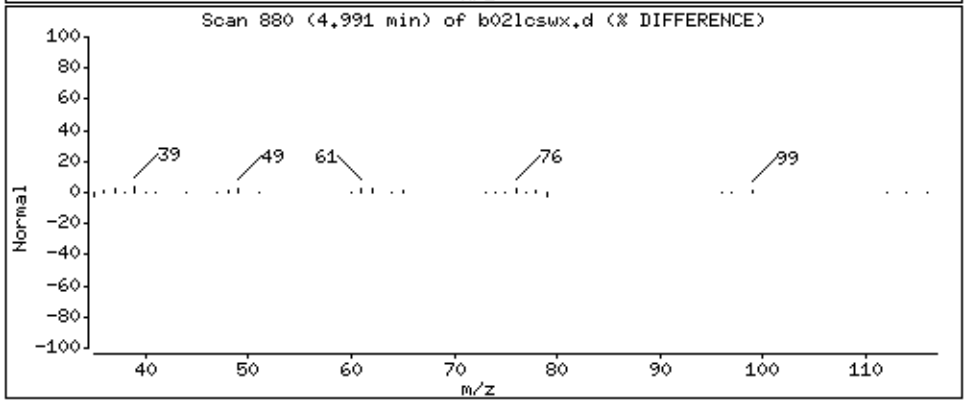
49 1,2-Dichloropropane

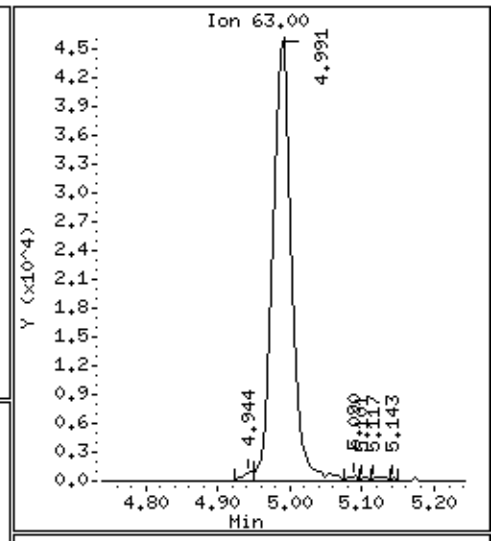
Concentration: 50.6 ppb

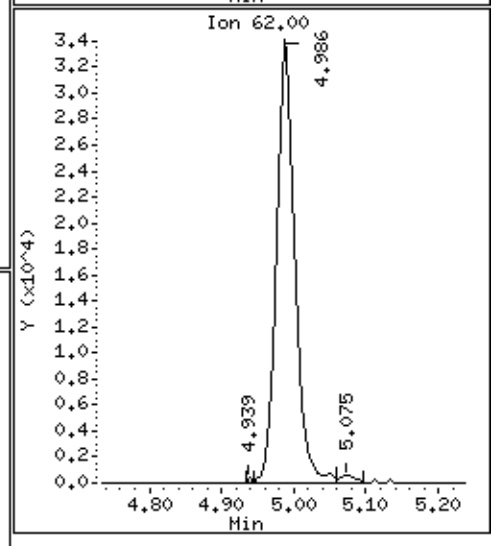












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

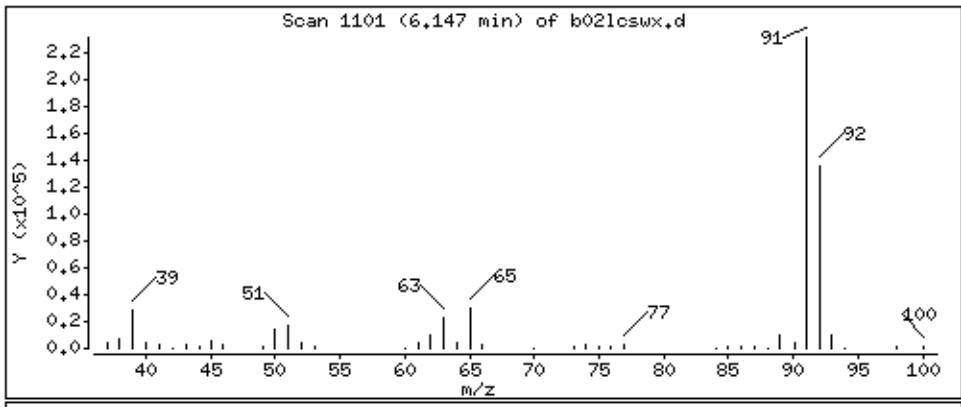
Operator: grm

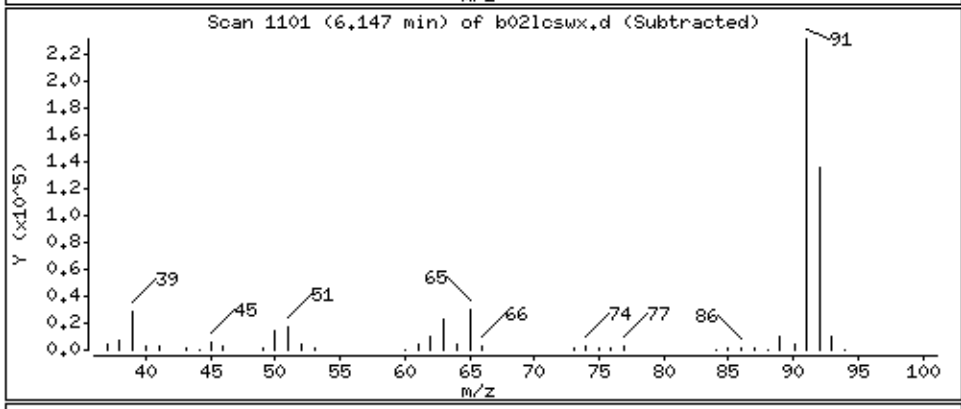
Column phase: DB-624

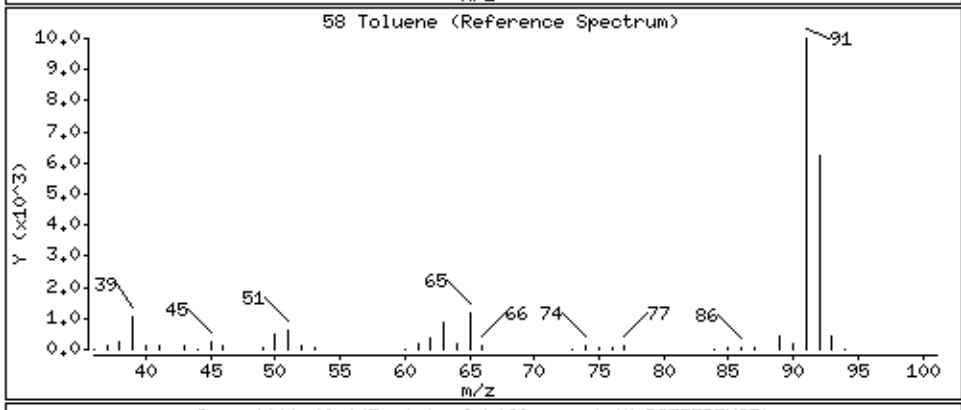
Column diameter: 0.18

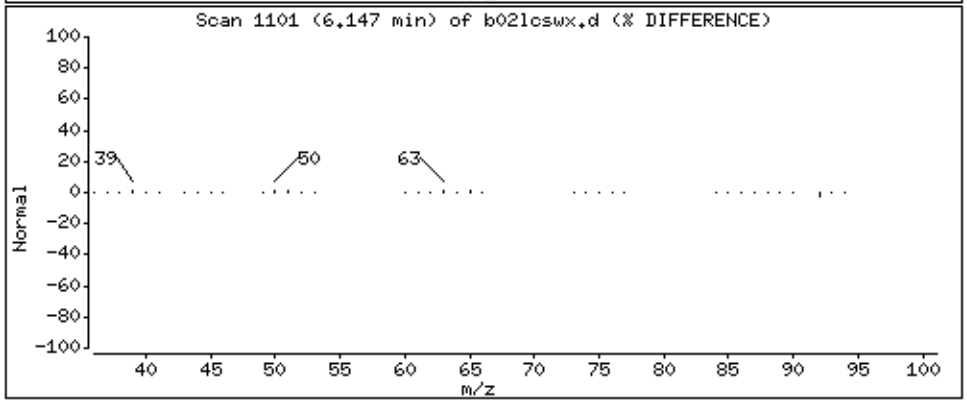
58 Toluene

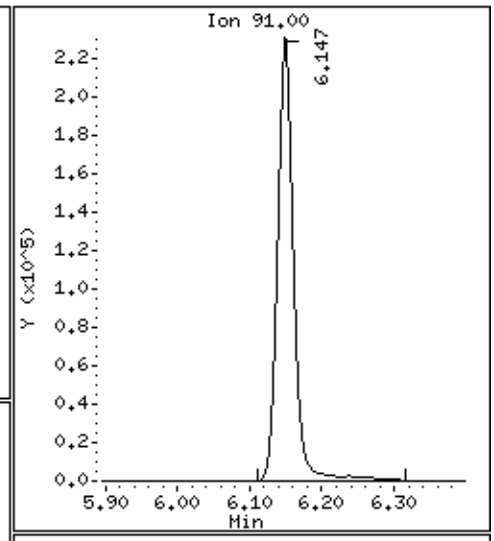
Concentration: 52.7 ppb

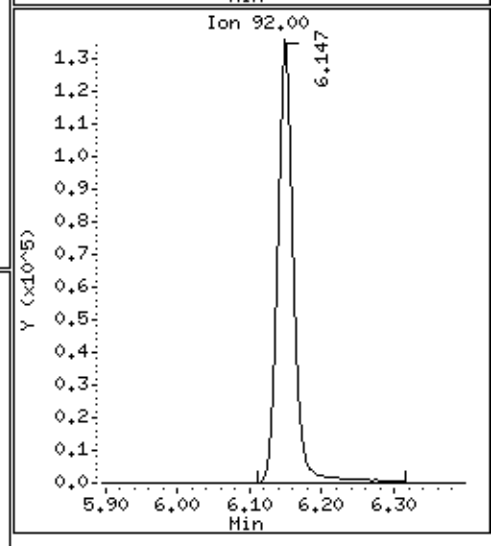












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

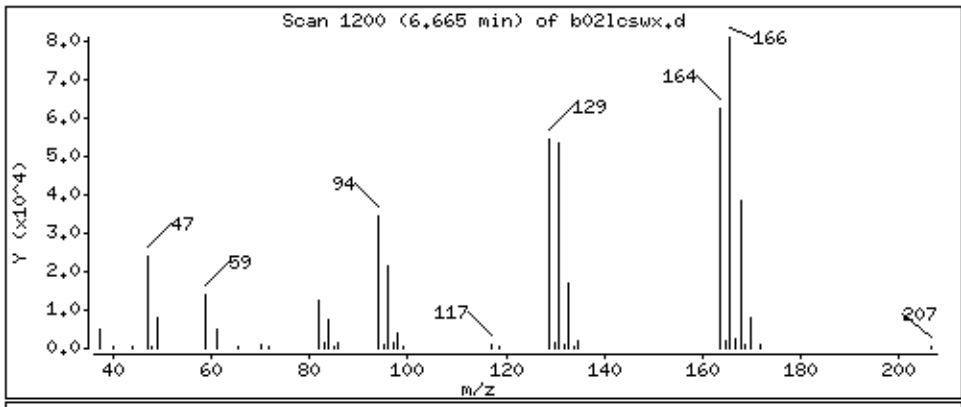
Operator: grm

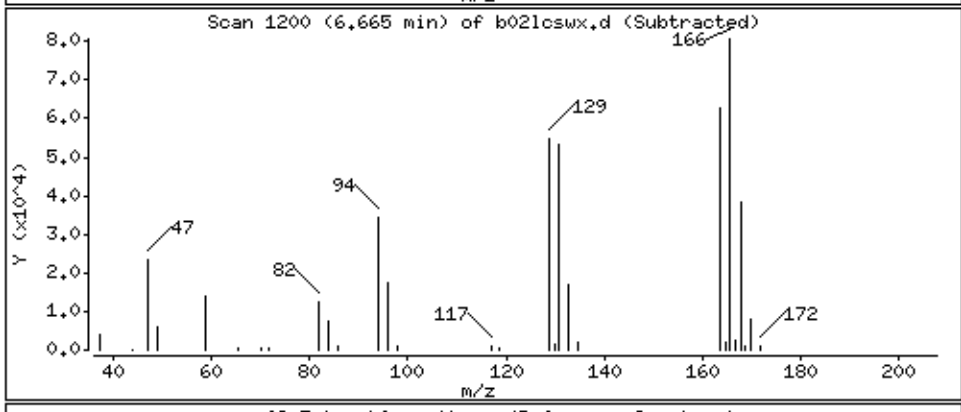
Column phase: DB-624

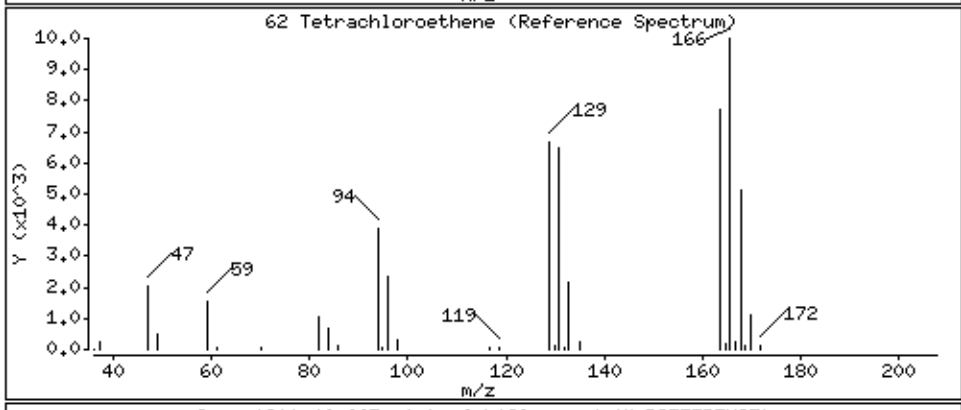
Column diameter: 0.18

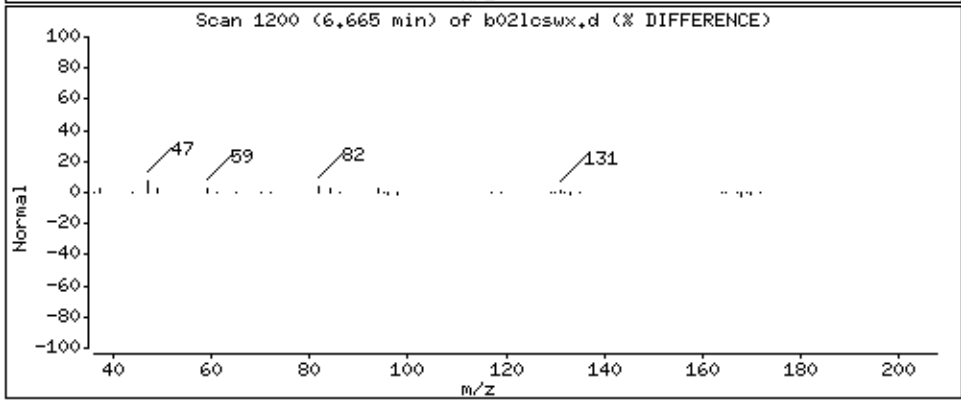
62 Tetrachloroethene

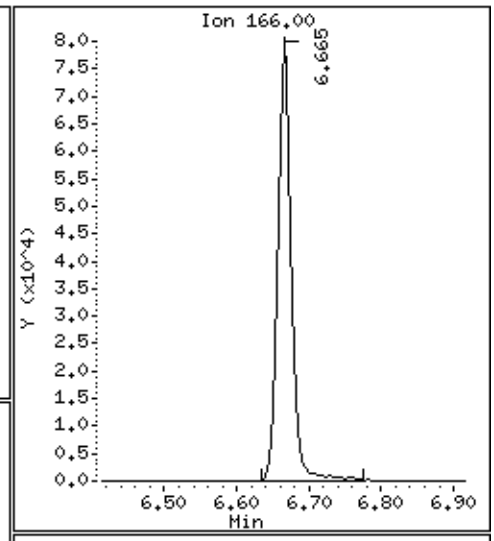
Concentration: 57.0 ppb

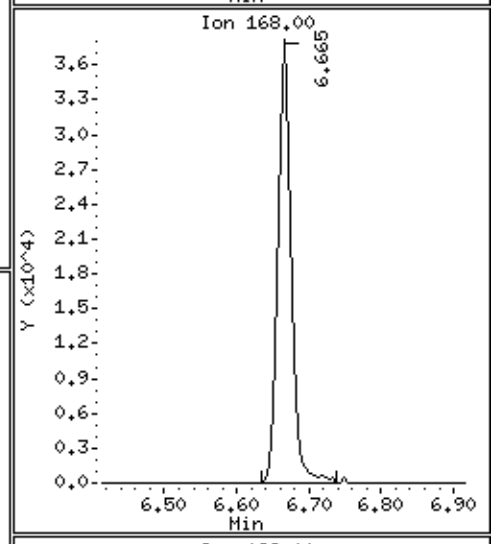


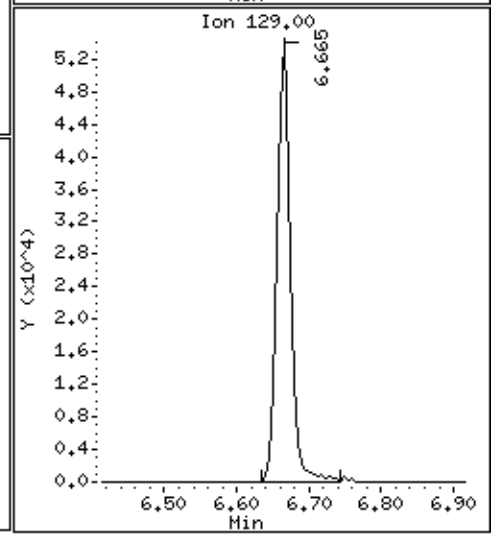












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

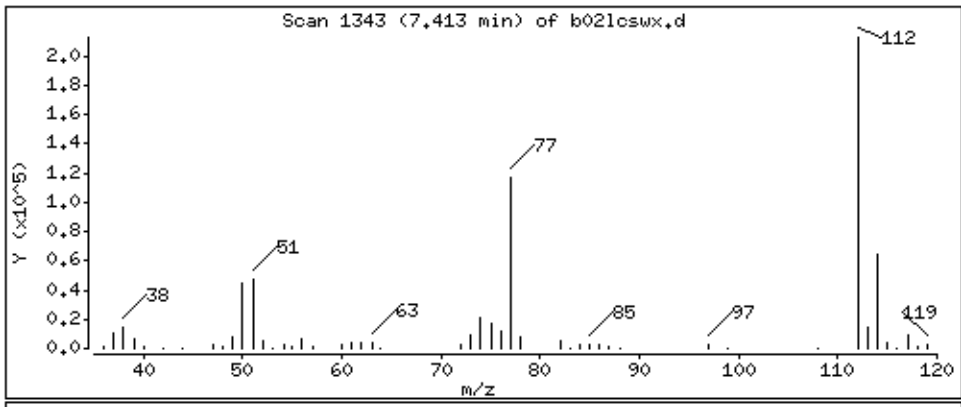
Operator: grm

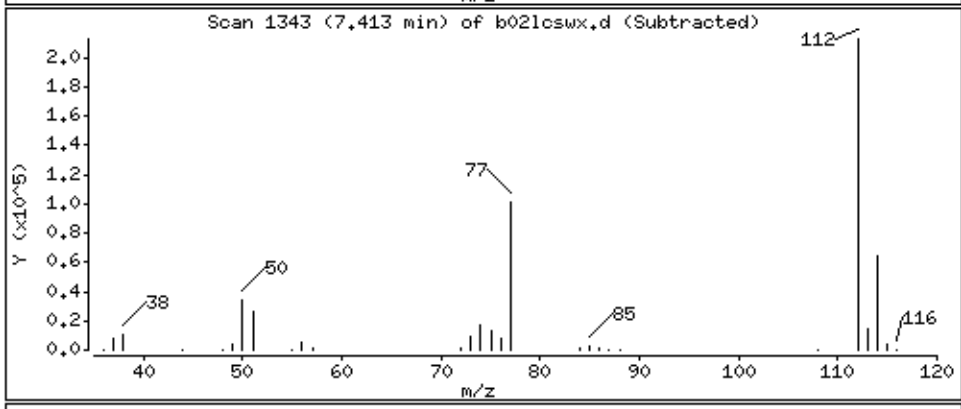
Column phase: DB-624

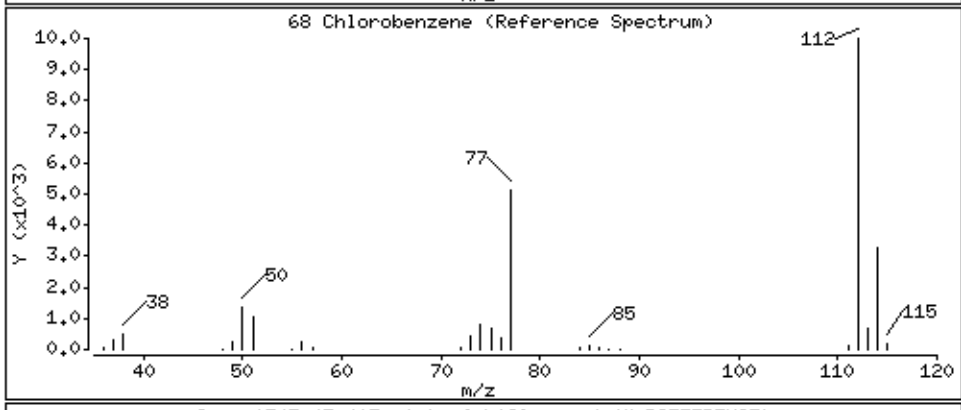
Column diameter: 0.18

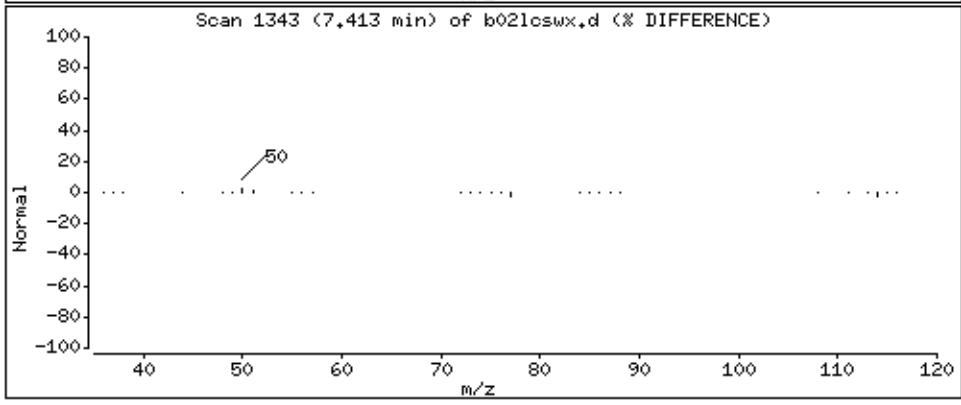
68 Chlorobenzene

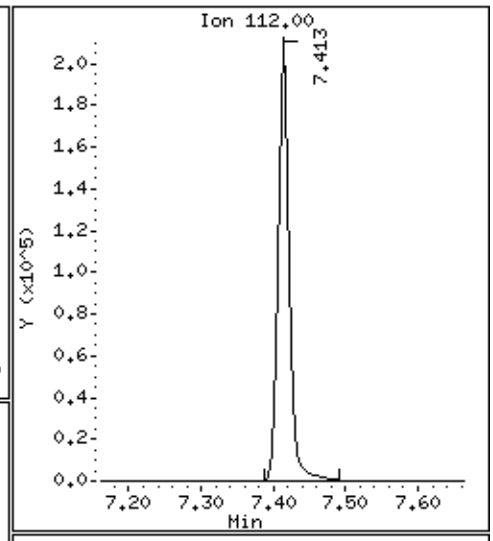
Concentration: 52.8 ppb

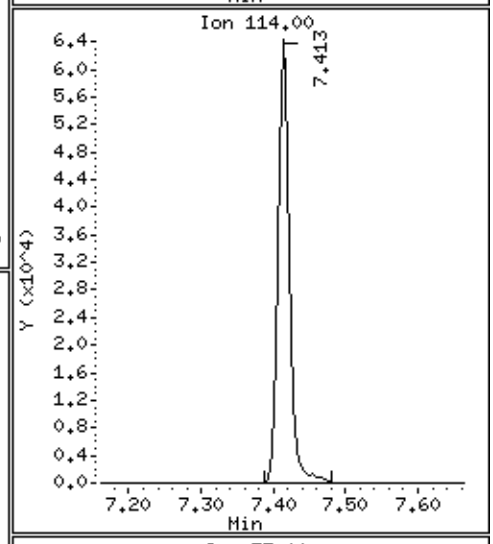


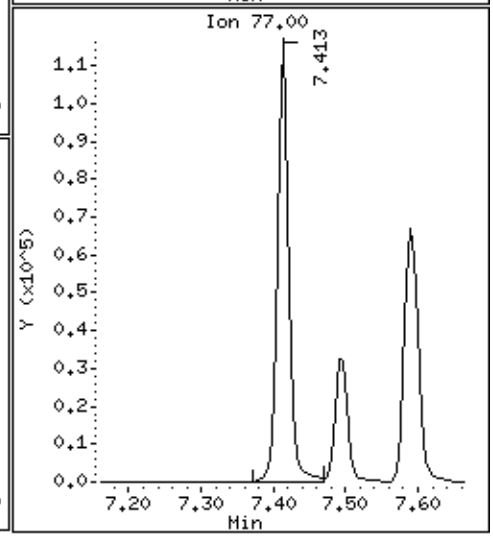












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

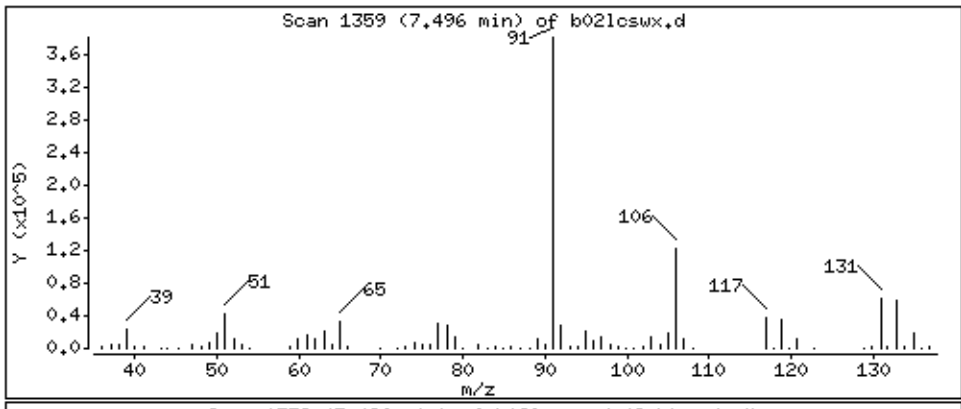
Operator: grm

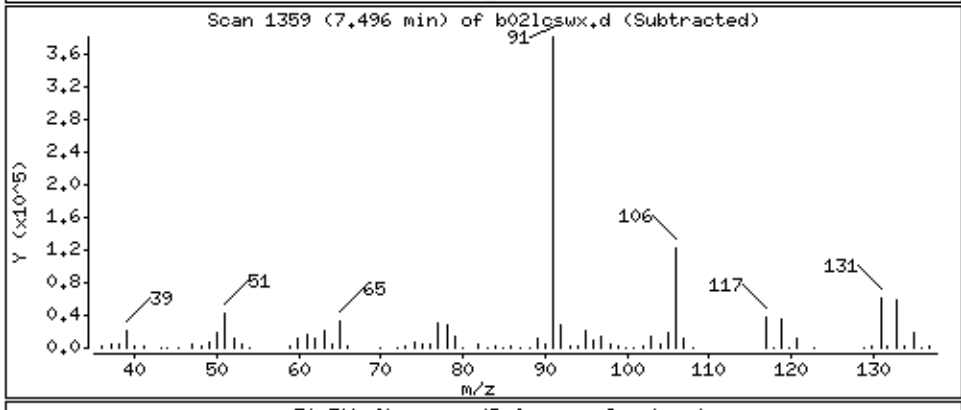
Column phase: DB-624

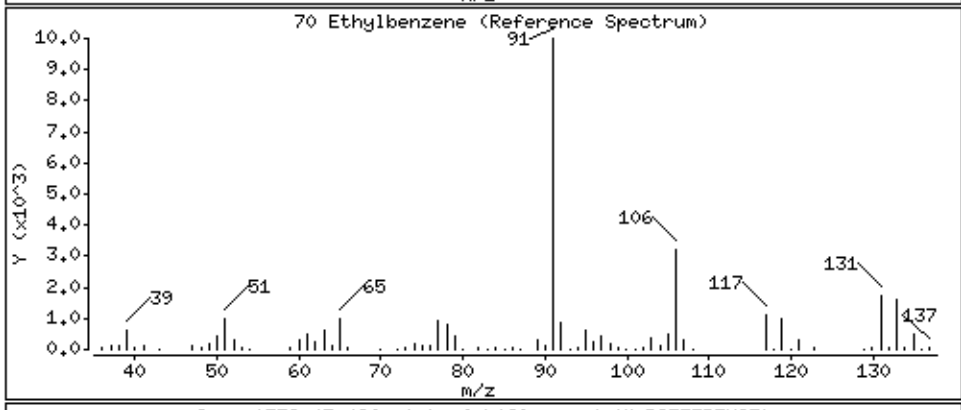
Column diameter: 0.18

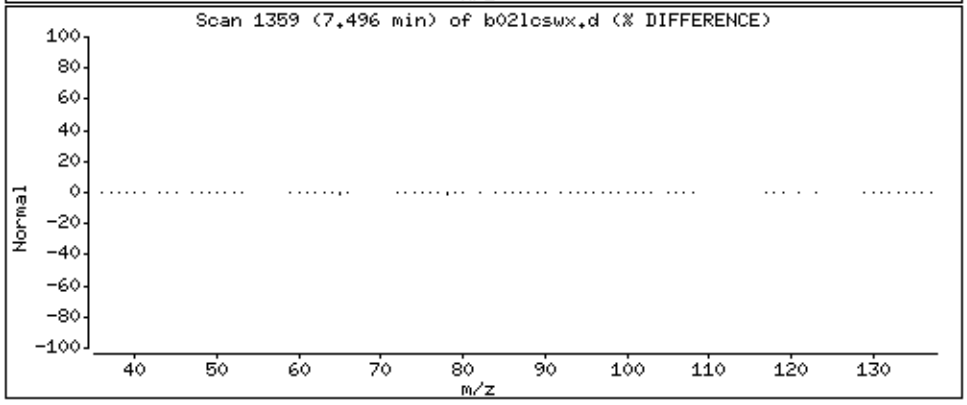
70 Ethylbenzene

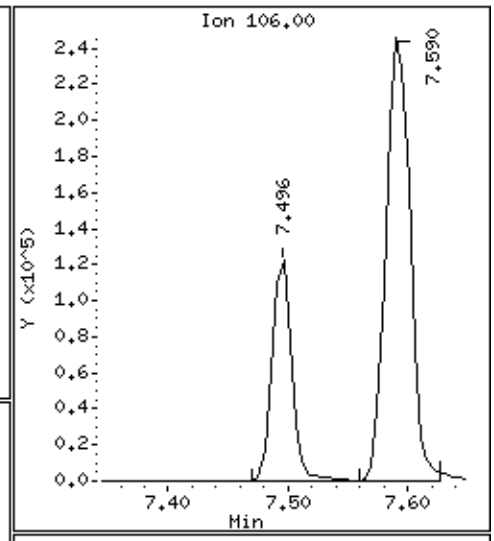
Concentration: 54.1 ppb

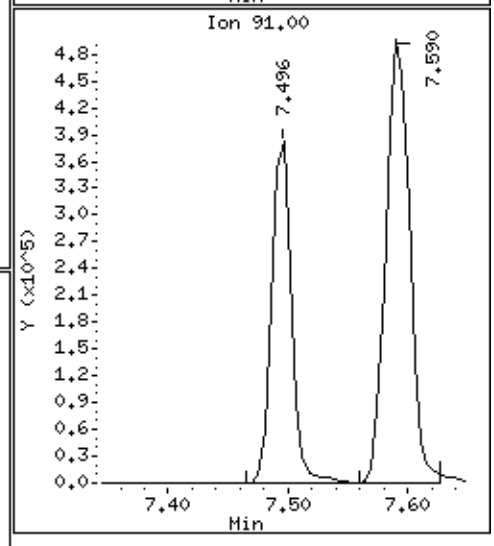












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Page 18

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

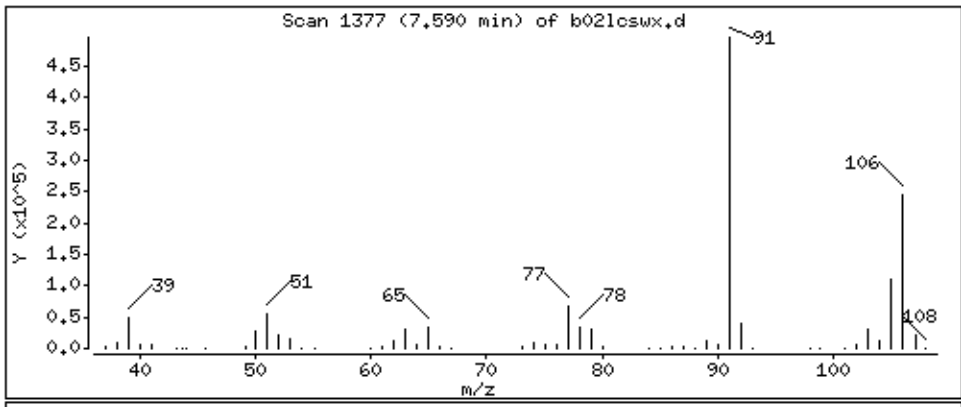
Operator: grm

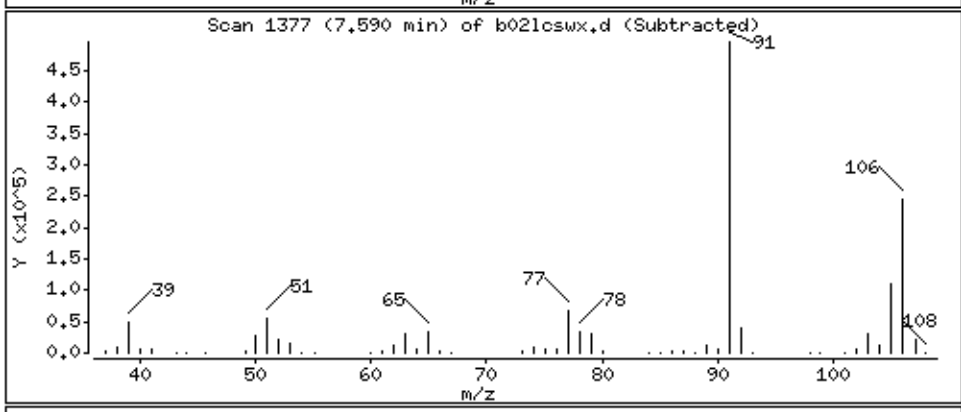
Column phase: DB-624

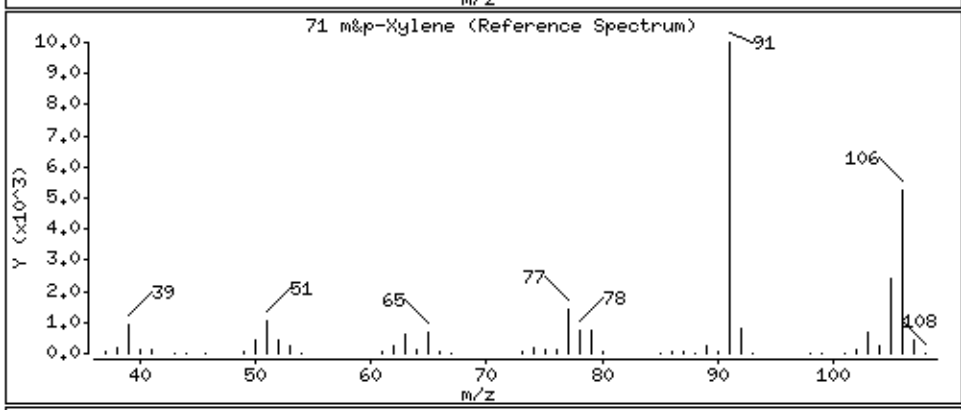
Column diameter: 0.18

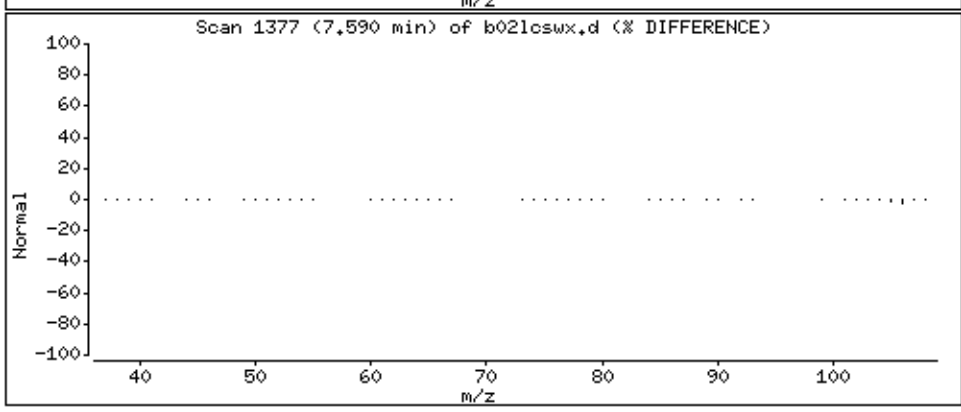
71 m&p-Xylene

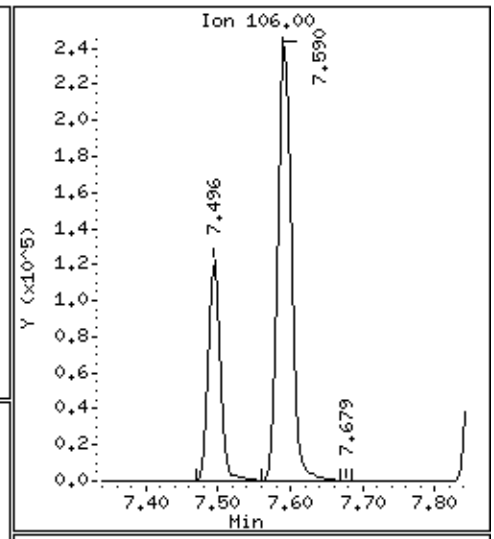
Concentration: 109 ppb

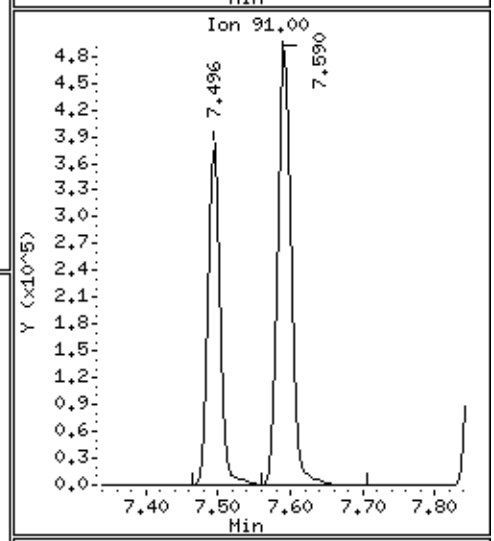


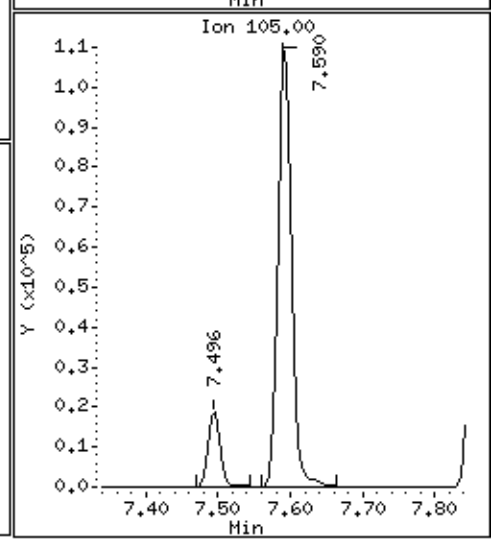












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

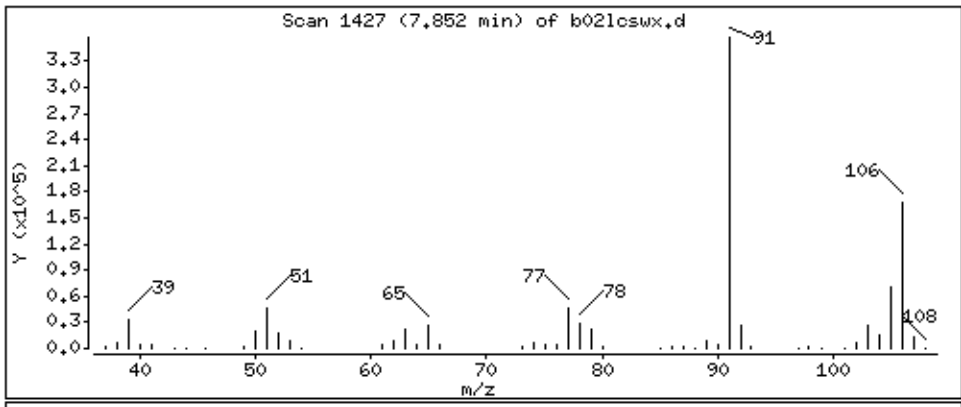
Operator: grm

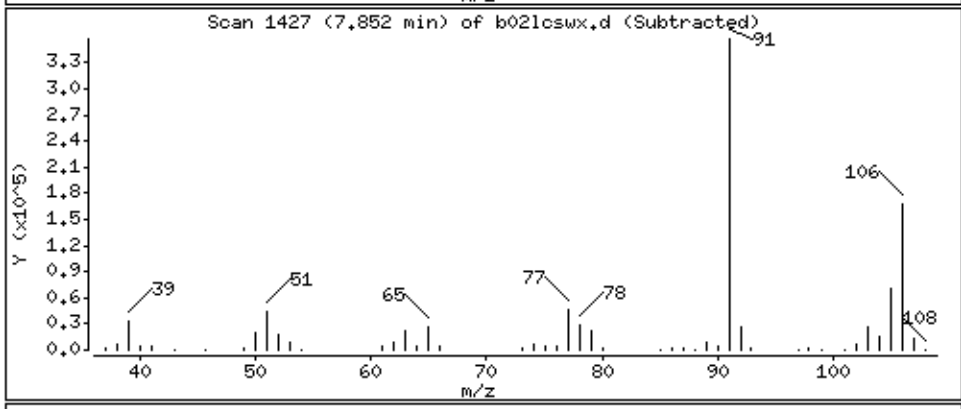
Column phase: DB-624

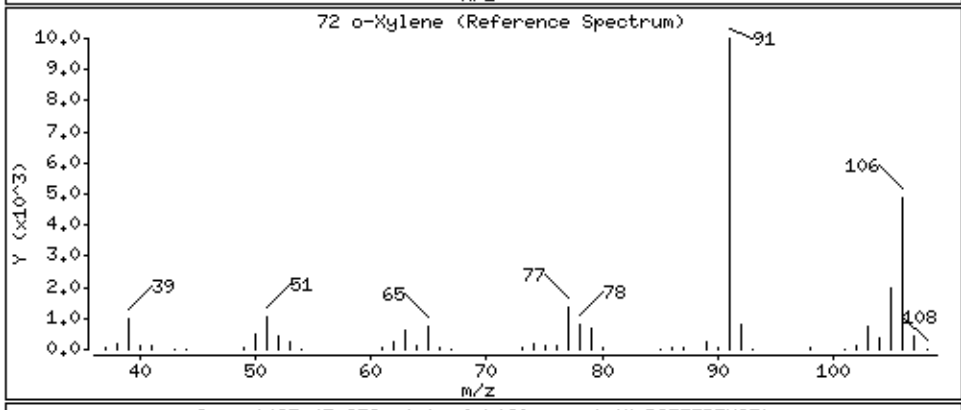
Column diameter: 0.18

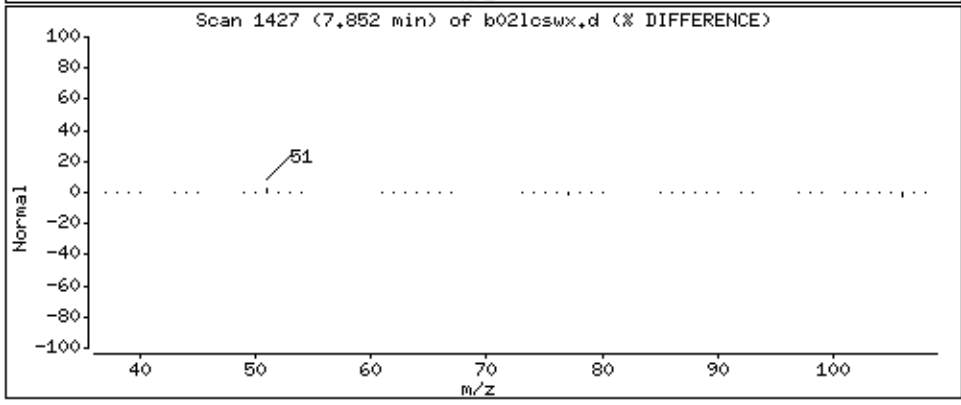
72 o-Xylene

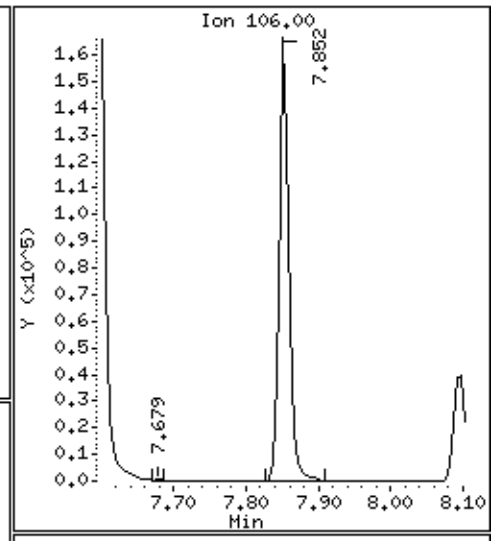
Concentration: 53.9 ppb

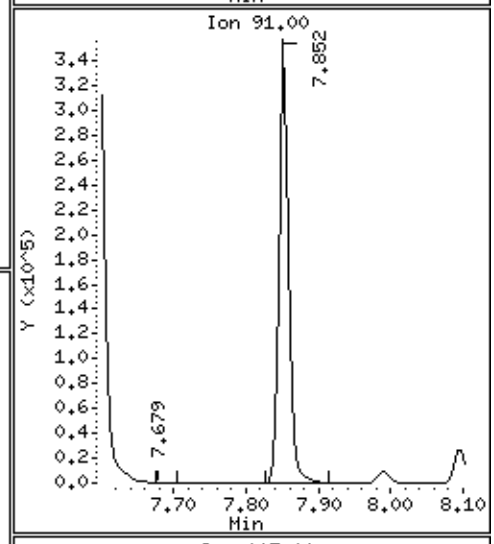


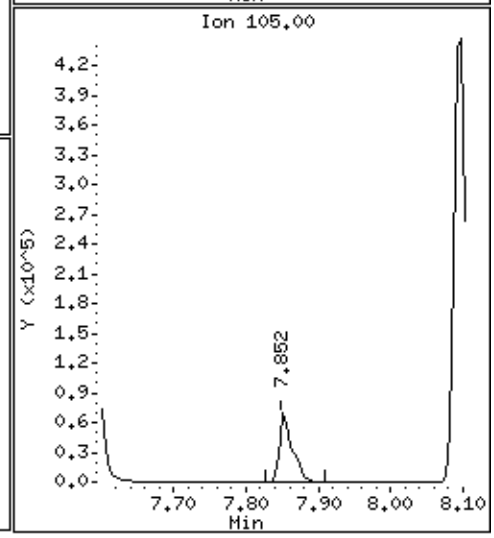












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

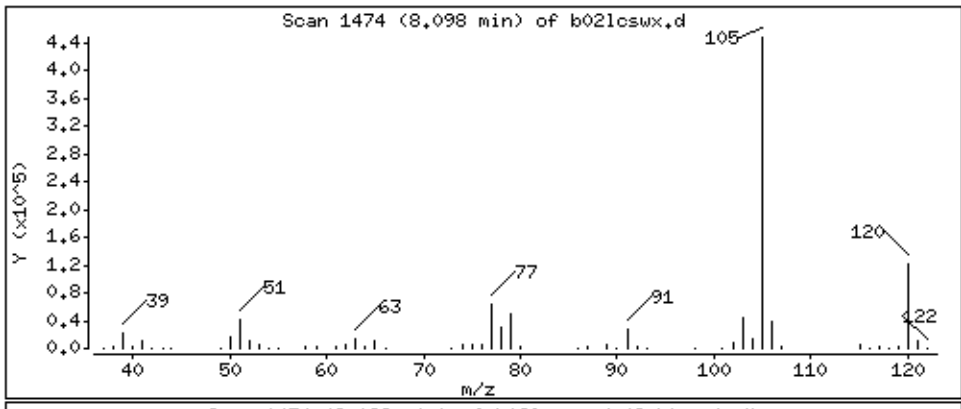
Operator: grm

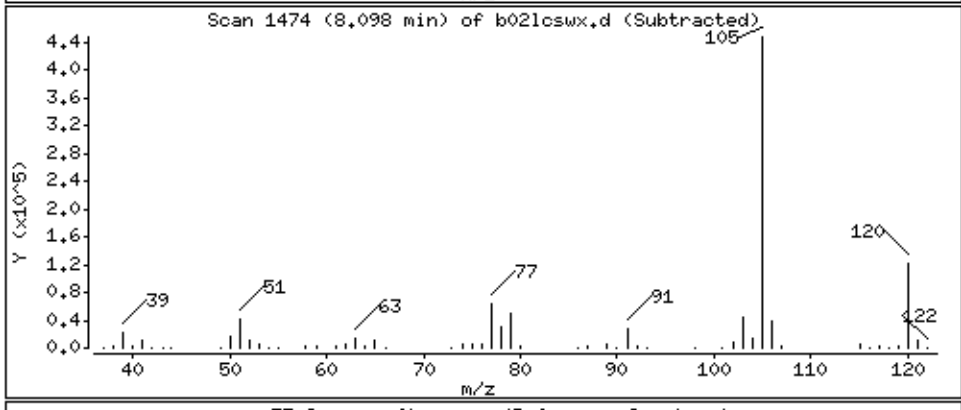
Column phase: DB-624

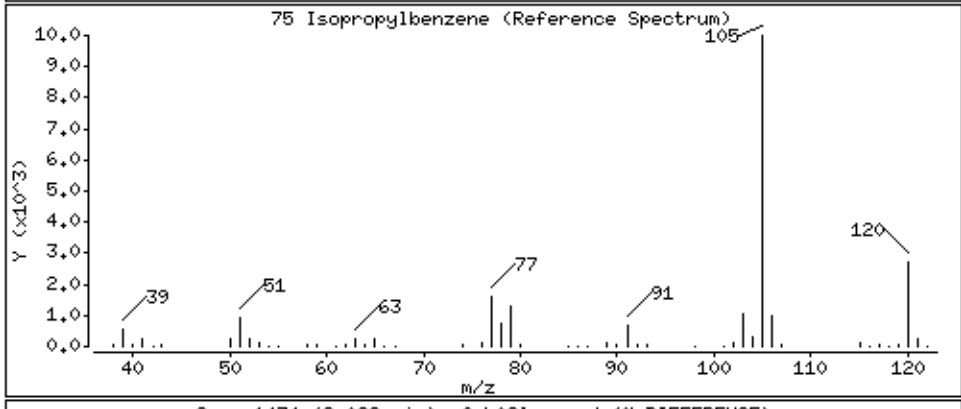
Column diameter: 0.18

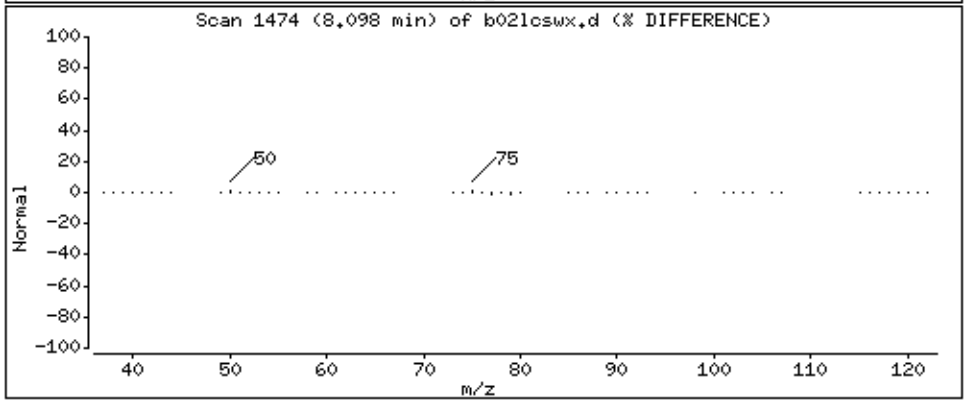
75 Isopropylbenzene

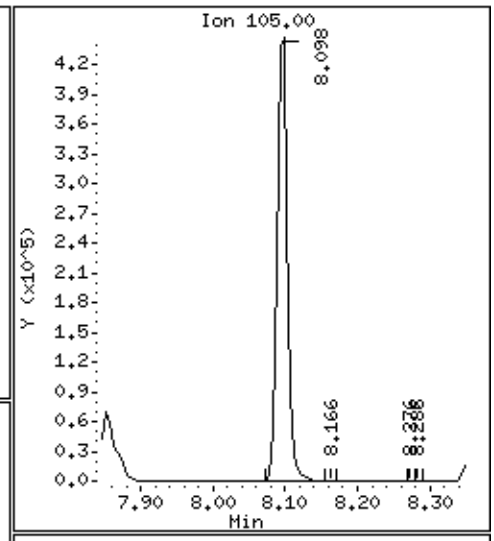
Concentration: 54.9 ppb

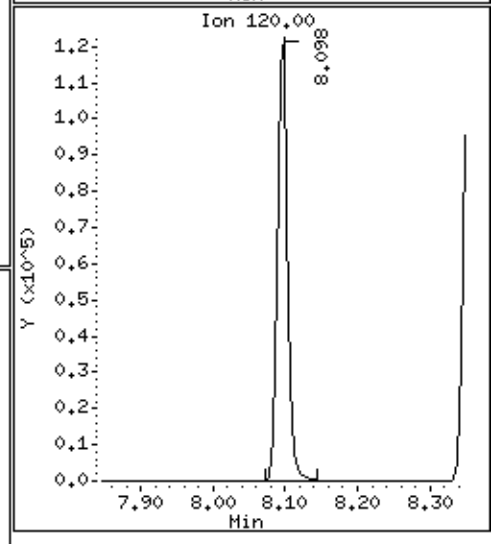












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

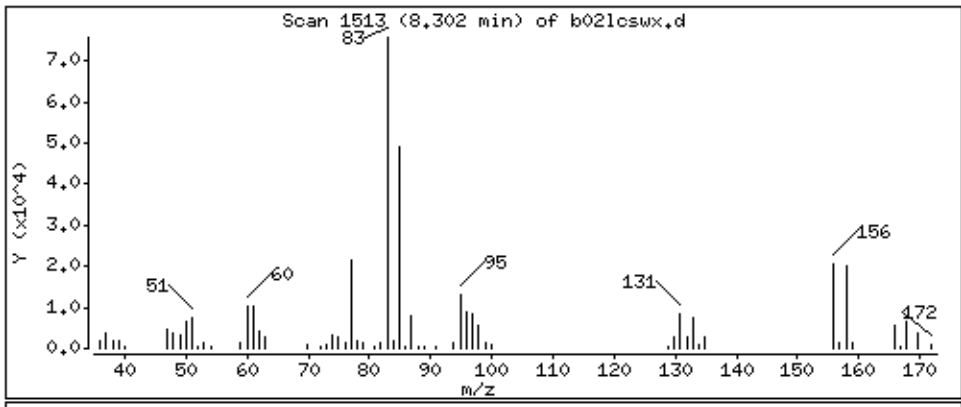
Operator: grm

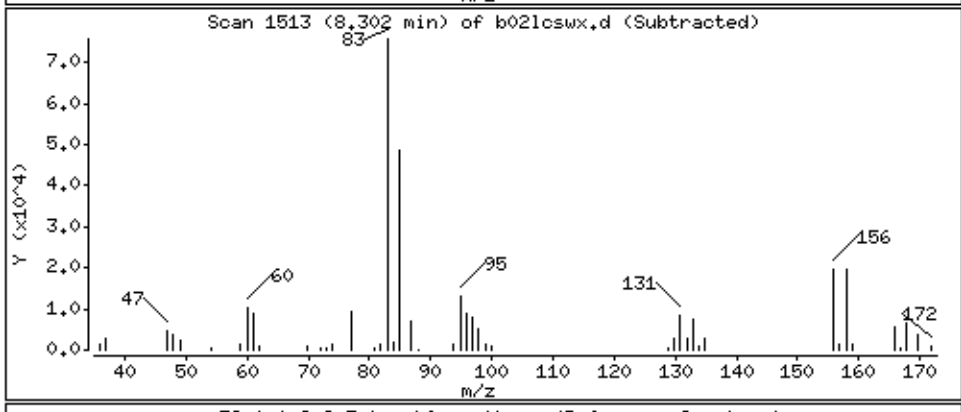
Column phase: DB-624

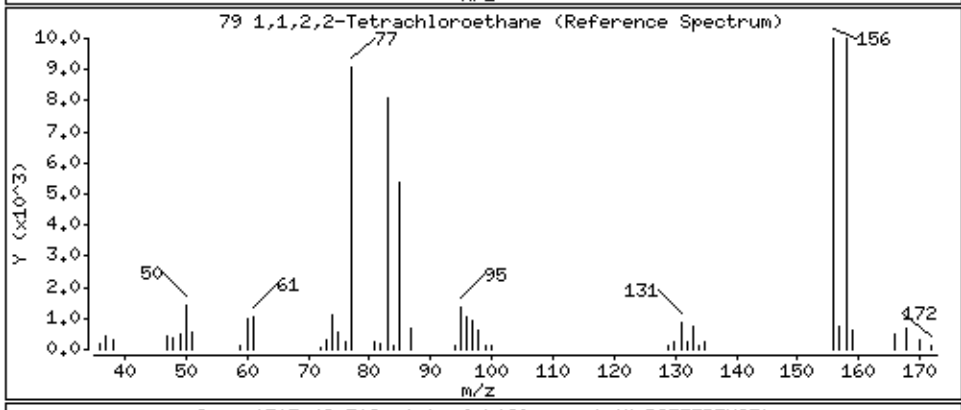
Column diameter: 0.18

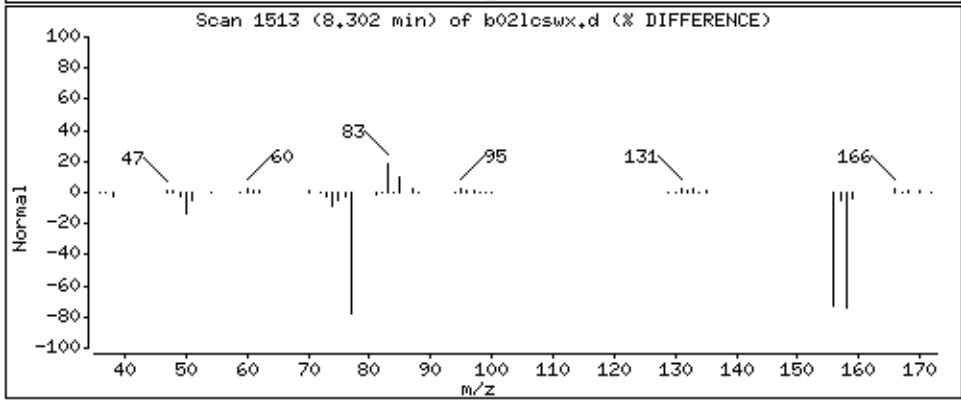
79 1,1,2,2-Tetrachloroethane

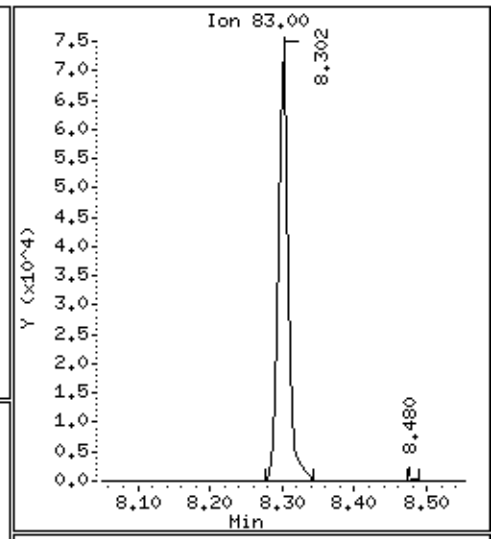
Concentration: 50.9 ppb

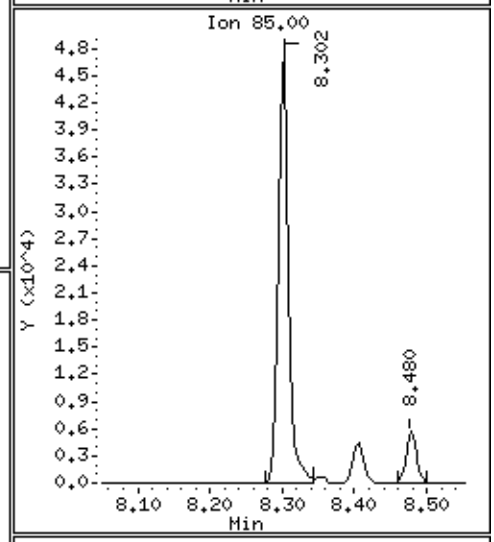


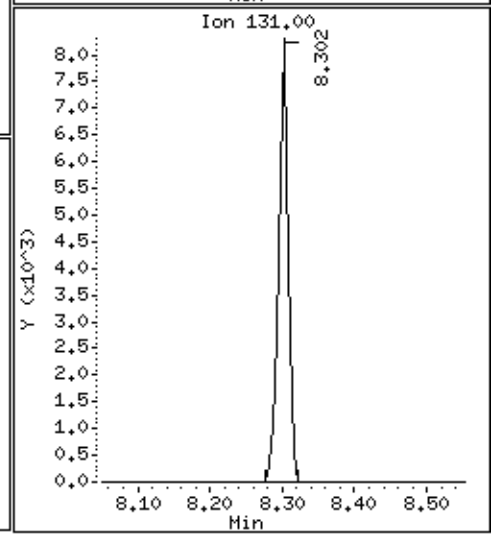












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

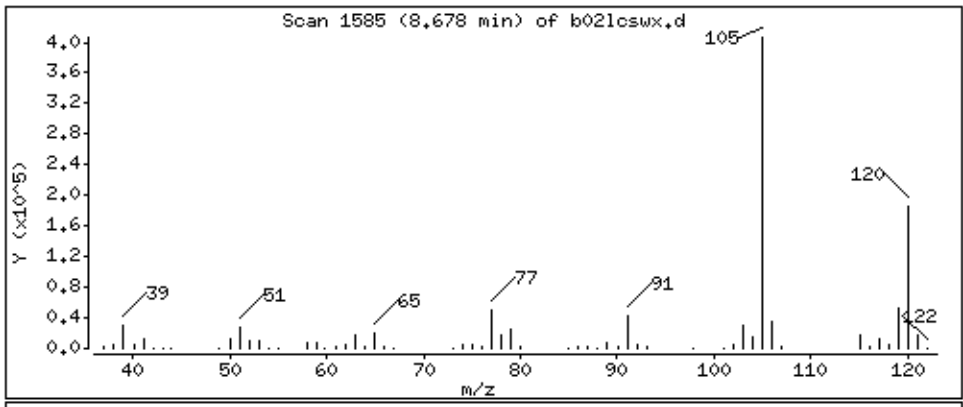
Operator: grm

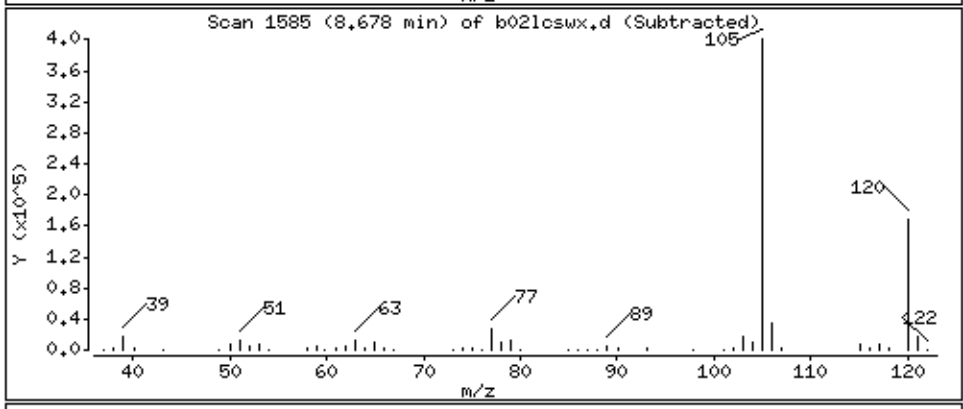
Column phase: DB-624

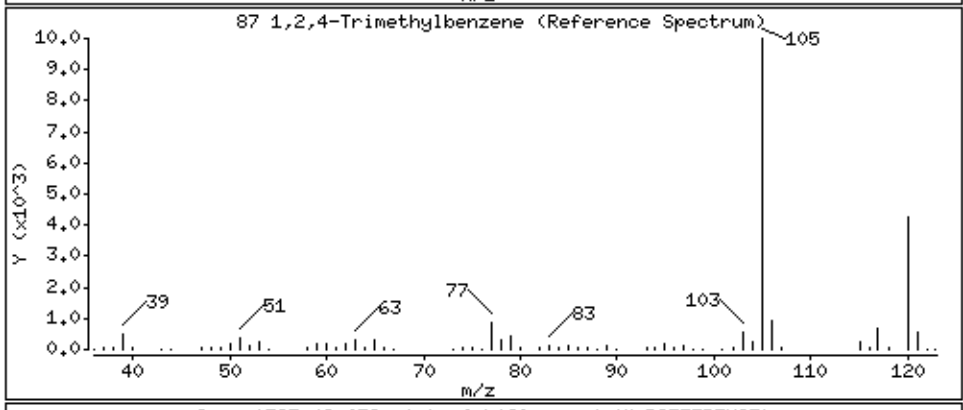
Column diameter: 0.18

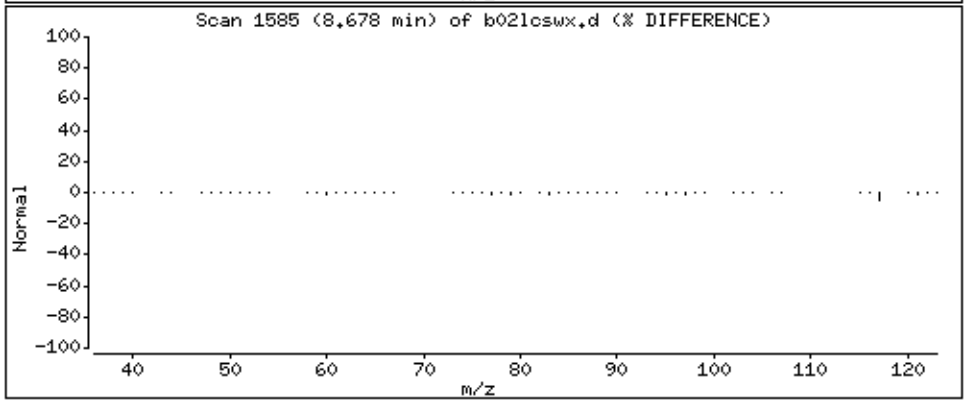
87 1,2,4-Trimethylbenzene

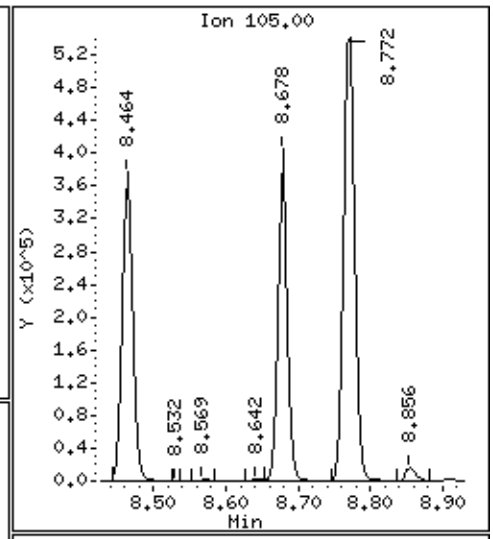
Concentration: 52.6 ppb

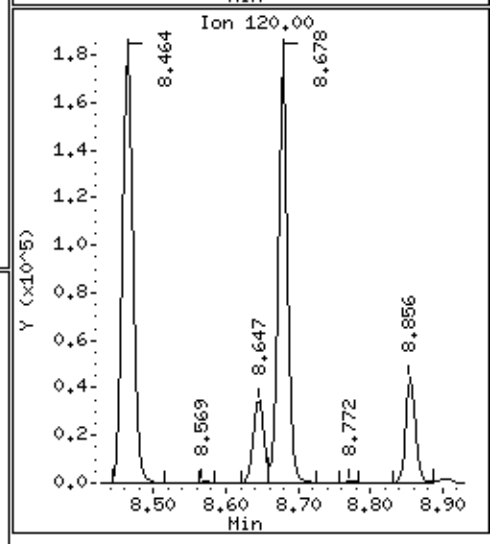












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\b02lcswx.d

Date : 17-MAR-2016 12:51

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500383,117024:5

Purge Volume: 5.0

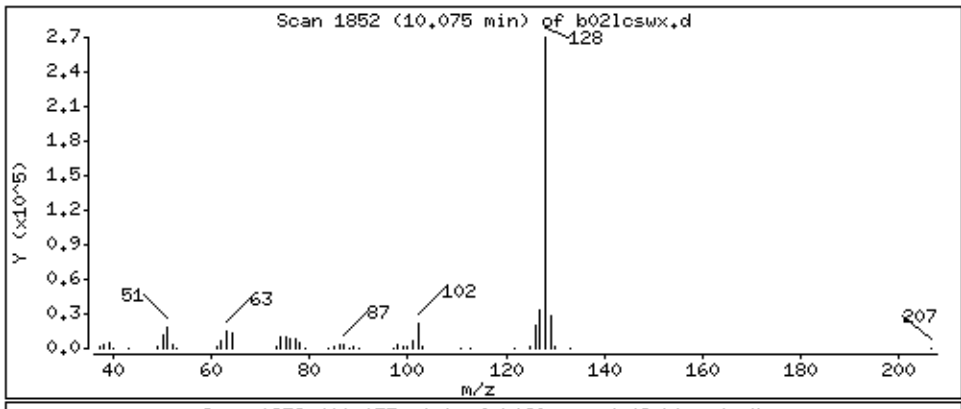
Operator: grm

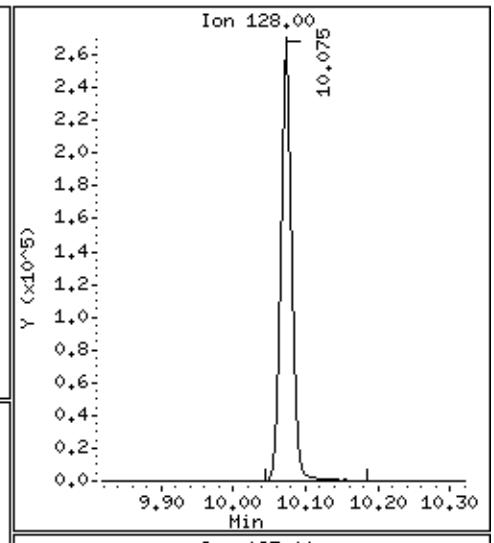
Column phase: DB-624

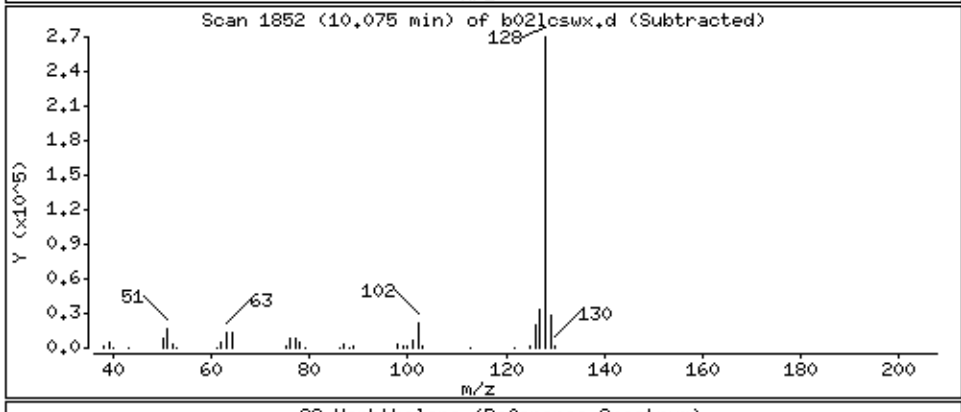
Column diameter: 0.18

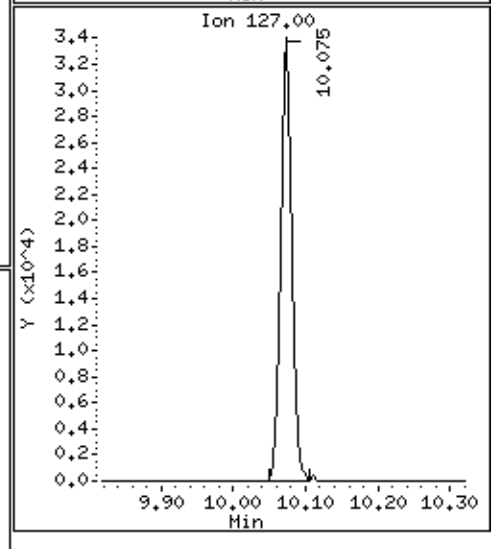
98 Naphthalene

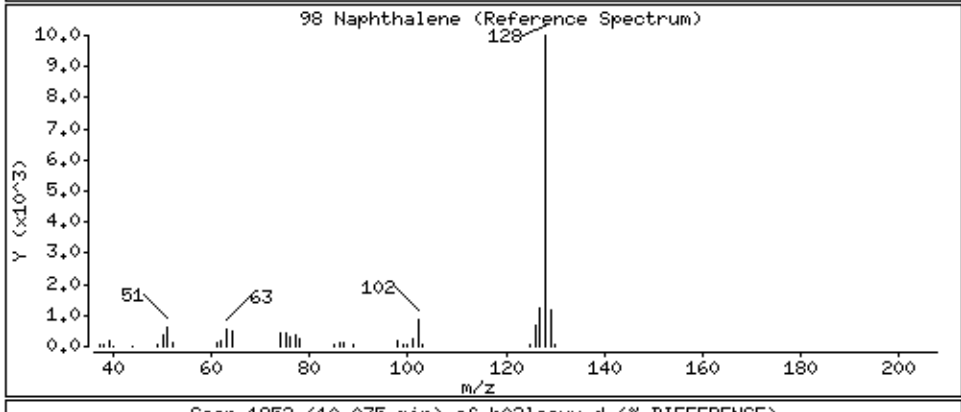
Concentration: 47.8 ppb

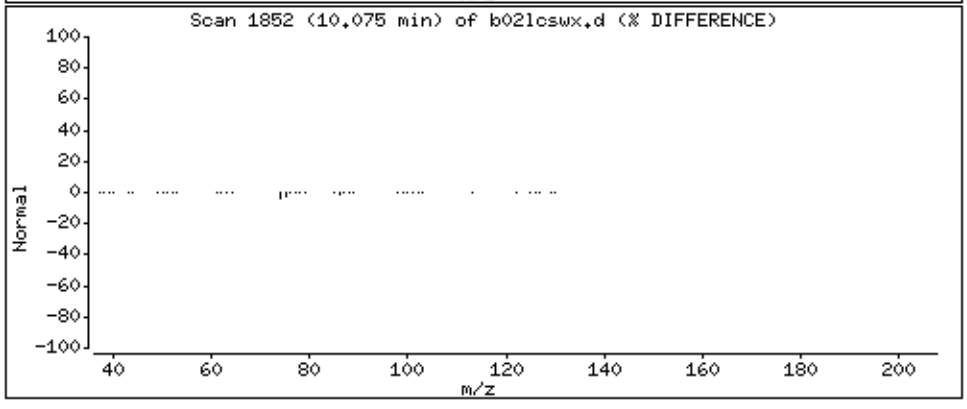












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/b02lcswx.d
Injection Date: 17-MAR-2016 12:51
Instrument: 50mv1b.i
Lab Sample ID: 1500383,117024:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 01:44 Lab Sample ID: 1500384

Date Analyzed: 03/18/2016 01:44 Lab File ID: B031716.B\D03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 01:44 Lab Sample ID: 1500384

Date Analyzed: 03/18/2016 01:44 Lab File ID: B031716.B\D03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d
Lab Smp Id: 1500384 Client Smp ID: MBw
Inj Date : 18-MAR-2016 01:44
Operator : grm Inst ID: 50mv1b.i
Smp Info : mbw
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 76 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.016	1.015	(0.240)	2518	0.73627	0.736	
	7 Diethyl ether	74	1.497	1.496	(0.354)	393	0.57331	0.573	
	18 Methylene Chloride	84	1.905	1.904	(0.450)	2383	1.45768	1.46	
$	38 Dibromofluoromethane (S)	113	3.395	3.400	(0.802)	79601	53.5375	53.5	
*	46 Fluorobenzene (IS)	96	4.232	4.232	(1.000)	286321	50.0000		
$	57 Toluene-d8	98	6.078	6.073	(0.822)	278277	49.3938	49.4	
	58 Toluene	91	6.152	6.146	(0.832)	3706	0.53632	0.536	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.391	(1.000)	216975	50.0000		
	70 Ethylbenzene	106	7.496	7.495	(1.014)	249	0.10199	0.102(Q)	
	71 m&p-Xylene	106	7.595	7.590	(1.028)	963	0.31507	0.315	
$	76 4-Bromofluorobenzene	95	8.207	8.207	(1.110)	105760	53.6947	53.7	
	82 n-Propylbenzene	91	8.359	8.353	(0.941)	1488	0.15971	0.160	
	87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	1130	0.17136	0.171	
	89 1,3-Dichlorobenzene	146	8.845	8.840	(0.995)	710	0.18066	0.181	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	114182	50.0000		
	92 1,4-Dichlorobenzene	146	8.897	8.897	(1.001)	953	0.24165	0.242(Q)	
	94 1,2-Dichlorobenzene	146	9.096	9.091	(1.024)	602	0.17423	0.174(Q)	
	98 Naphthalene	128	10.074	10.058	(1.134)	3032	0.51956	0.520	
	100 2,methyl-naphthalene	142	10.717	10.702	(1.206)	3000	0.76682	0.767	

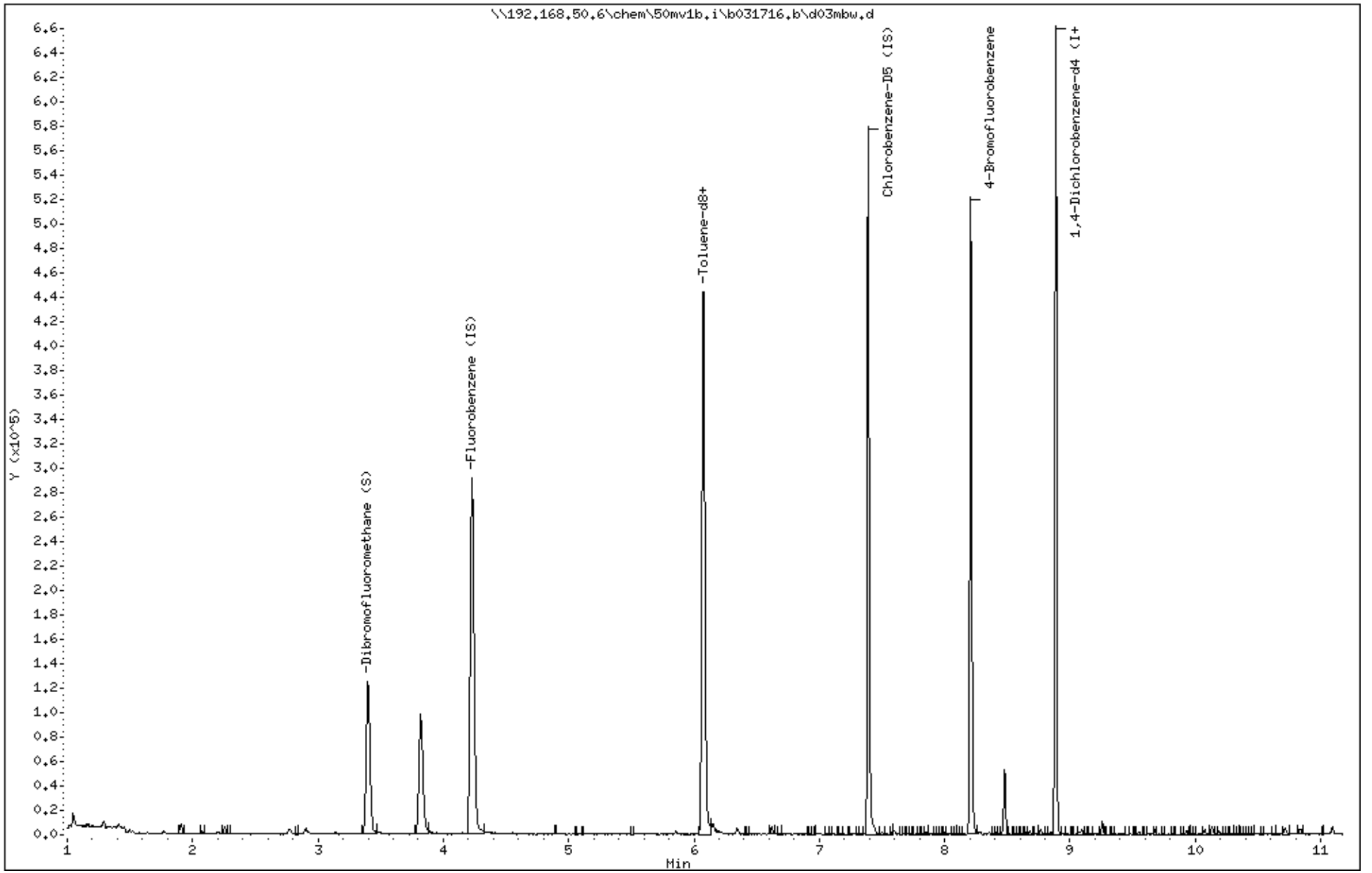
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d
Date : 18-MAR-2016 01:44
Client ID: MBw
Instrument: 50mv1b.i
Sample Info: MBw
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

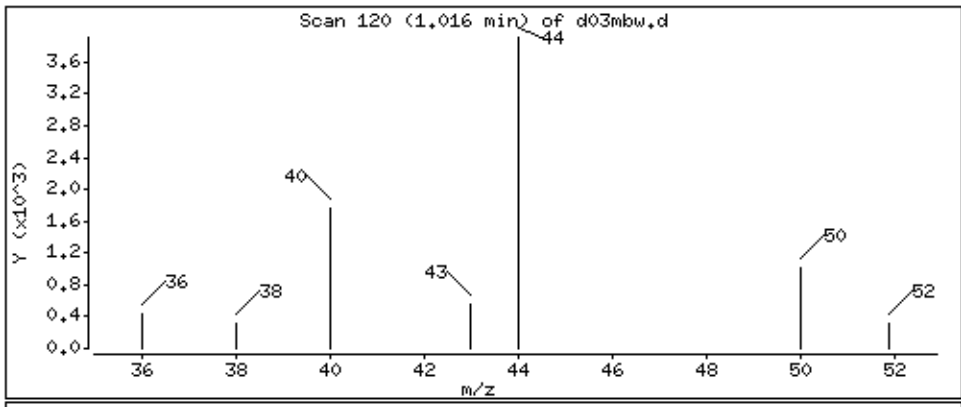
Operator: grm

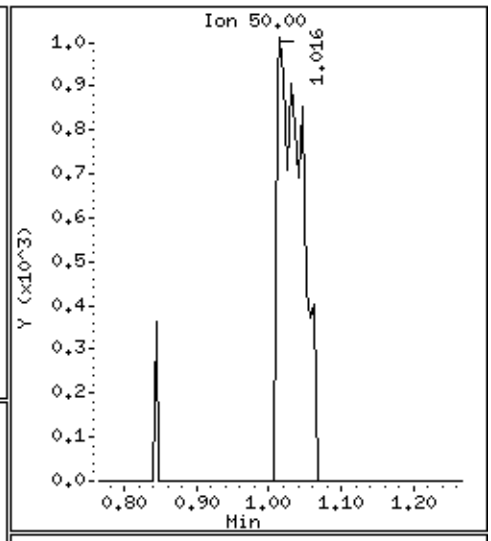
Column phase: DB-624

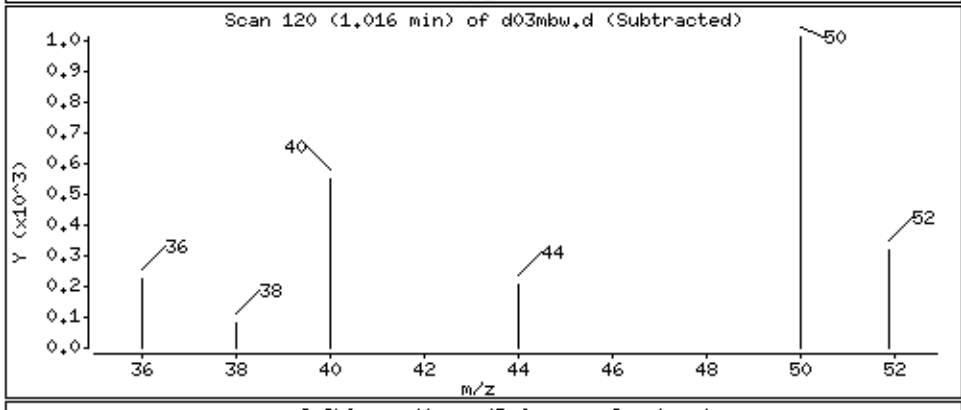
Column diameter: 0.18

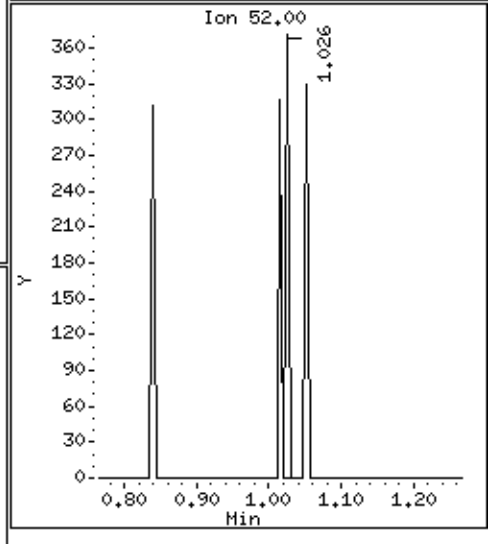
2 Chloromethane

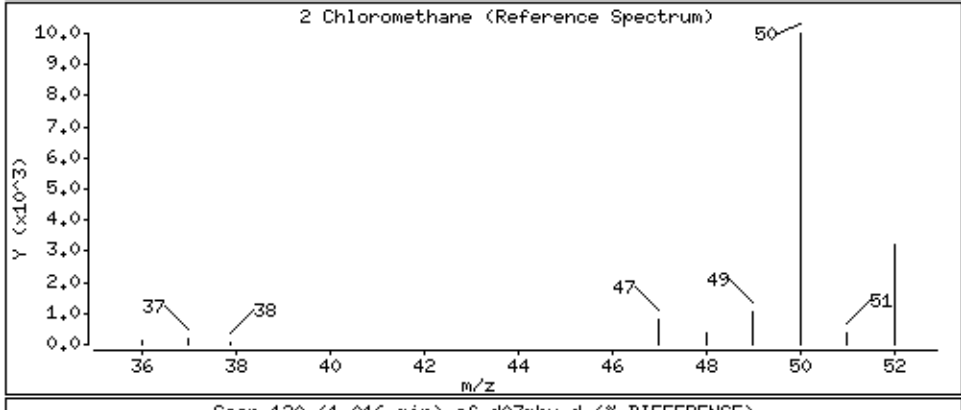
Concentration: 0.736 ppb

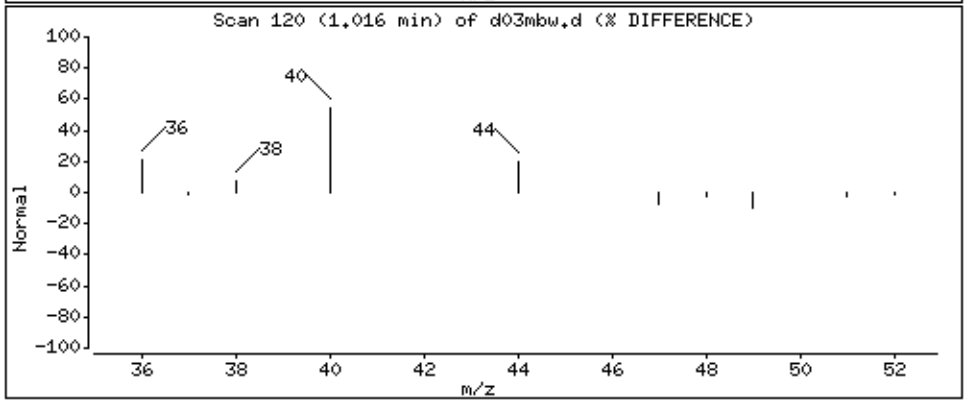












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

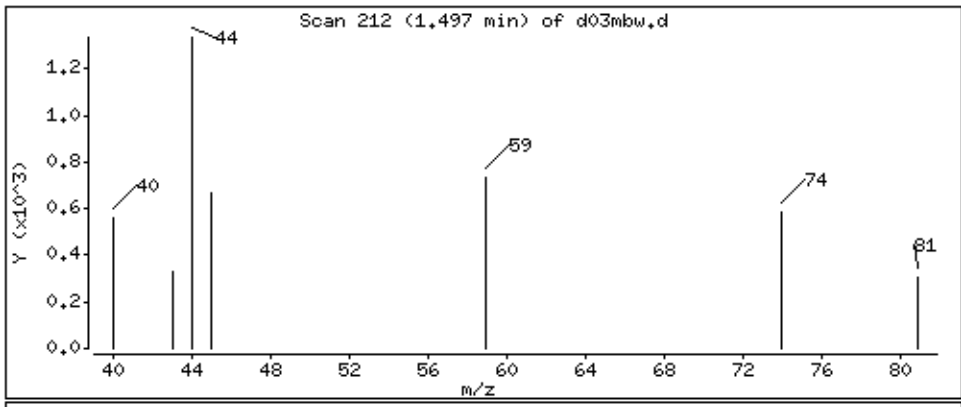
Operator: grm

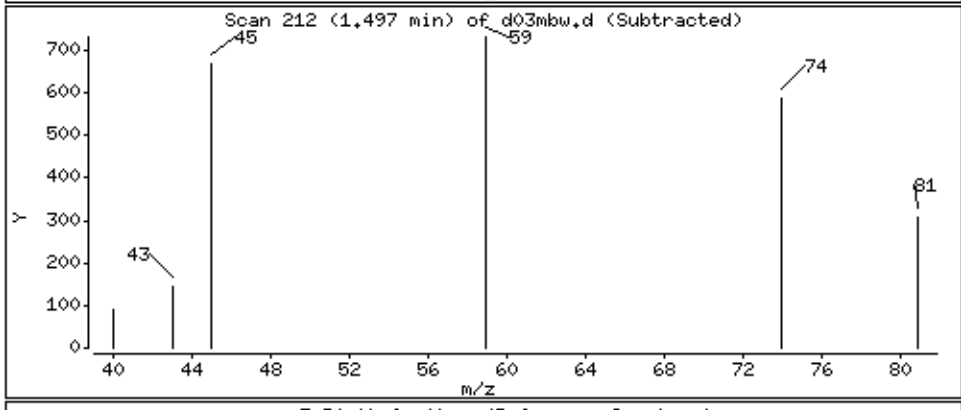
Column phase: DB-624

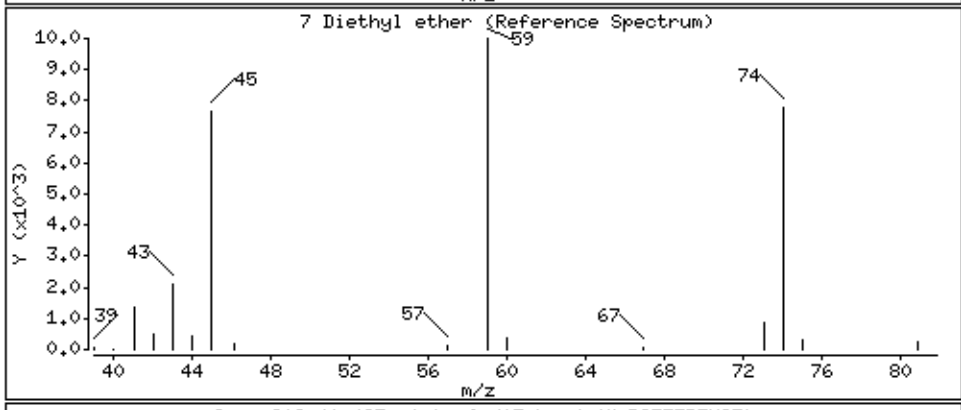
Column diameter: 0.18

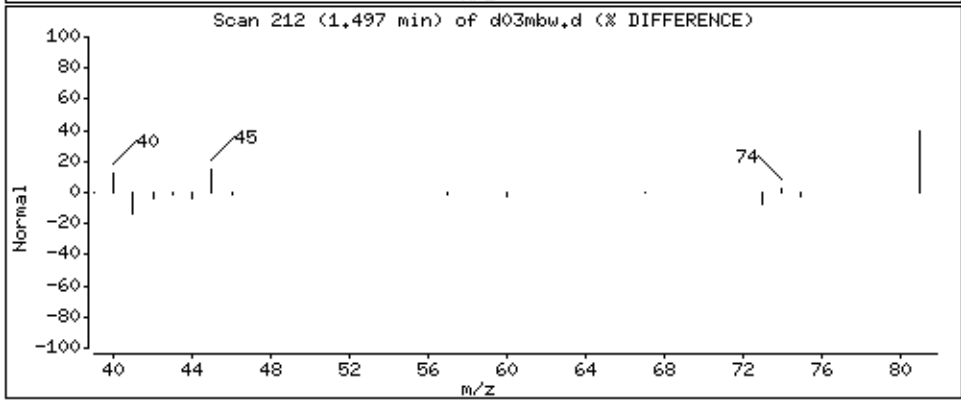
7 Diethyl ether

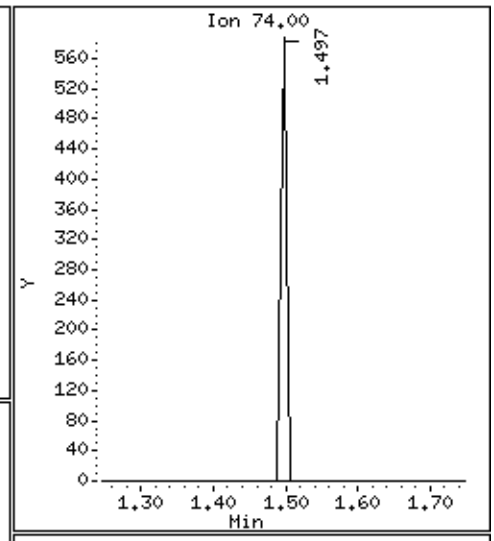
Concentration: 0.573 ppb

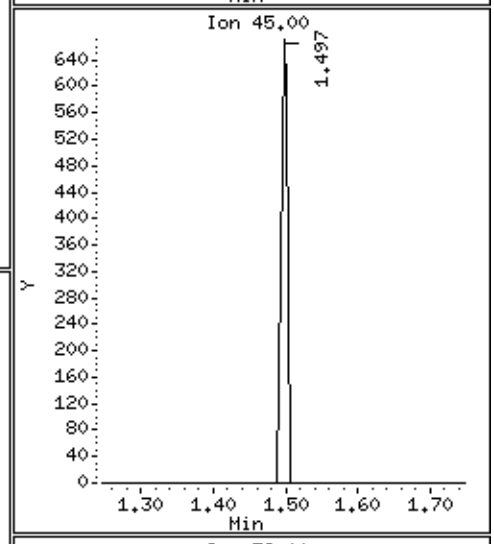


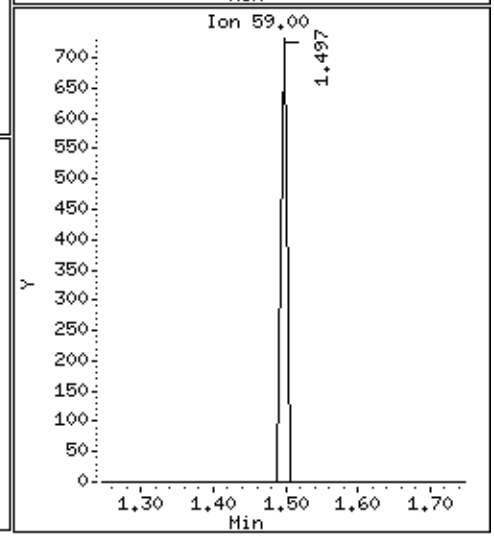












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

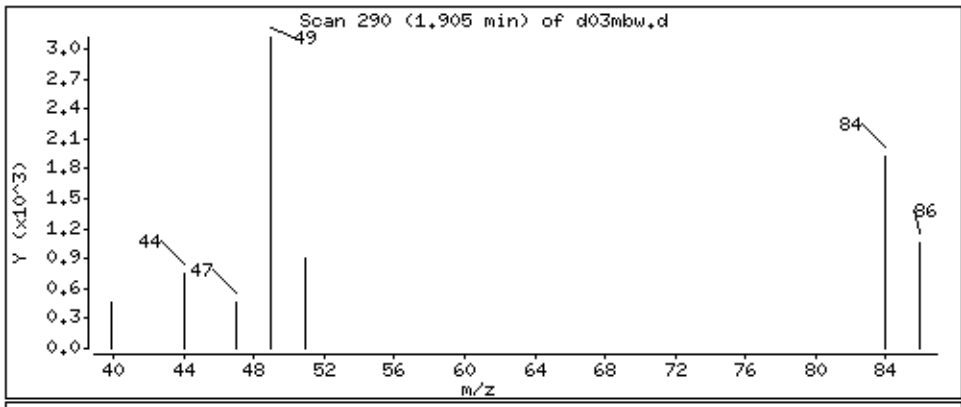
Operator: grm

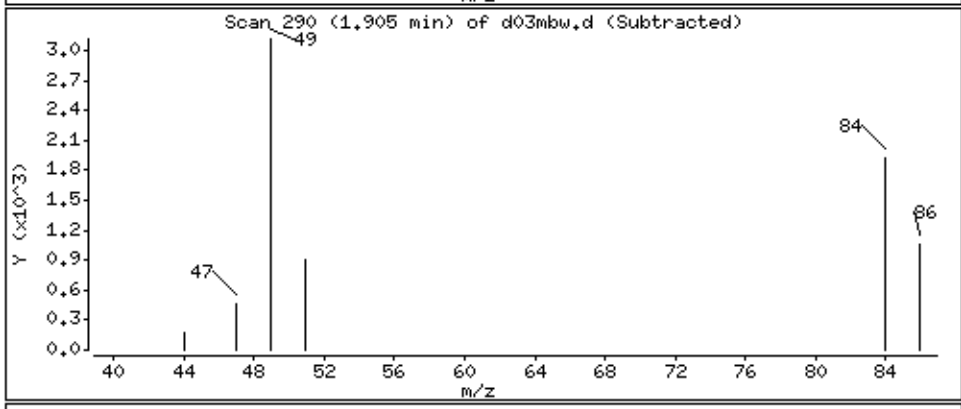
Column phase: DB-624

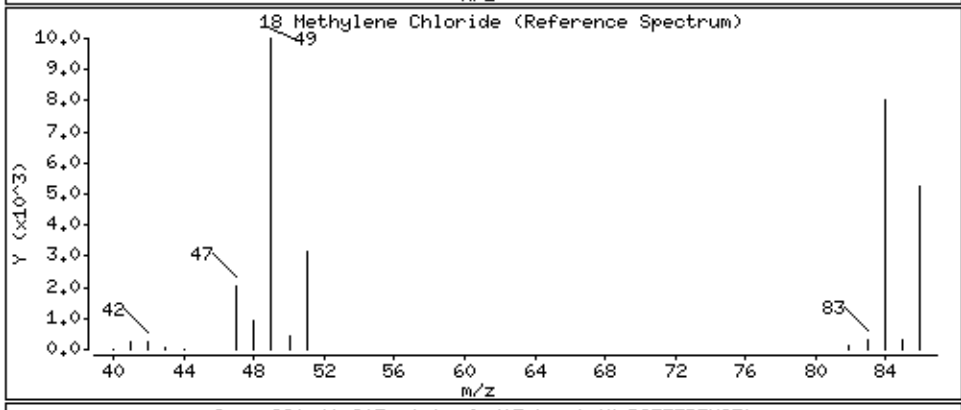
Column diameter: 0.18

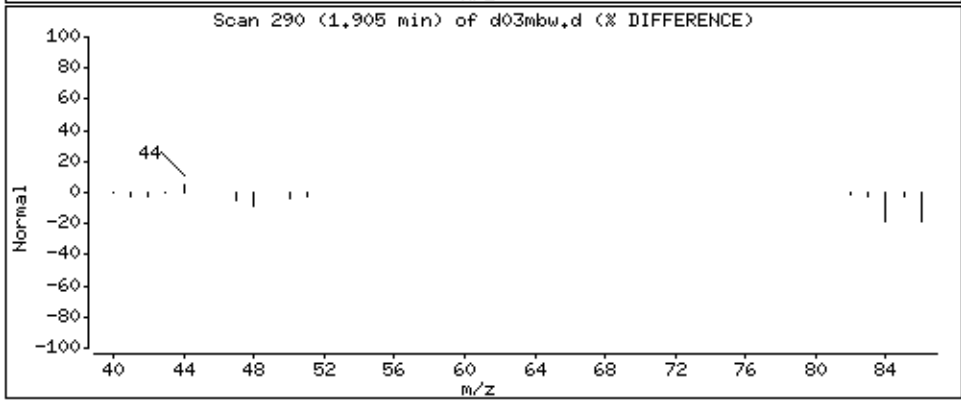
18 Methylene Chloride

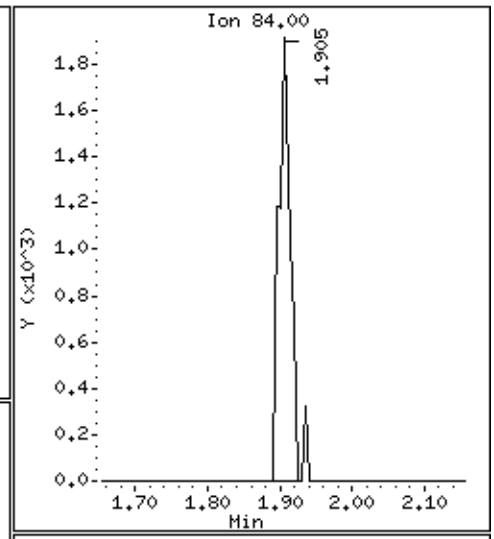
Concentration: 1.46 ppb

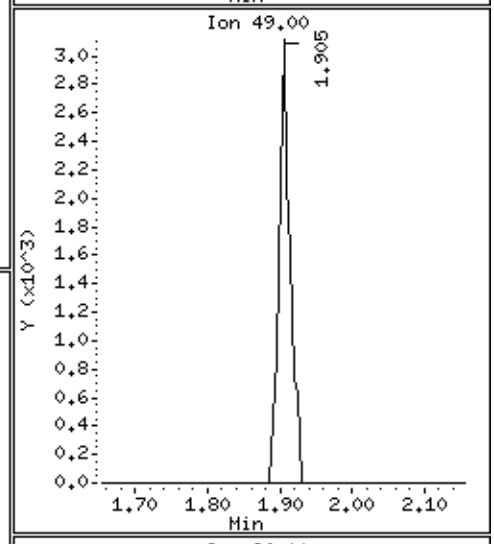


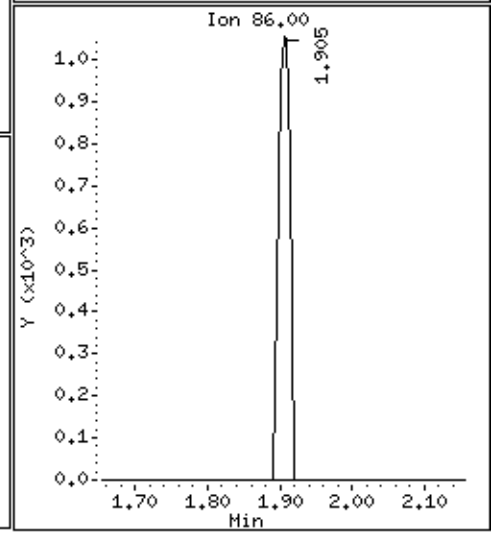












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

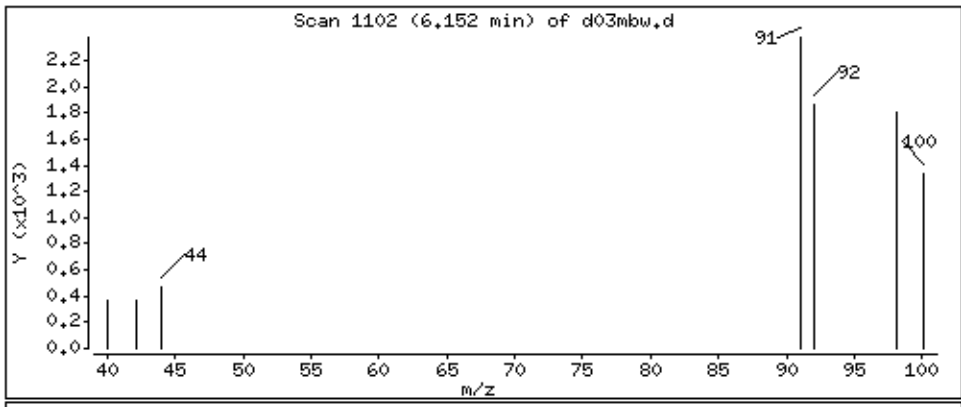
Operator: grm

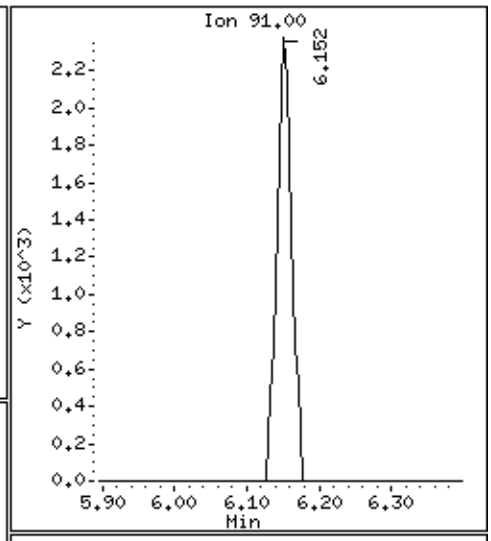
Column phase: DB-624

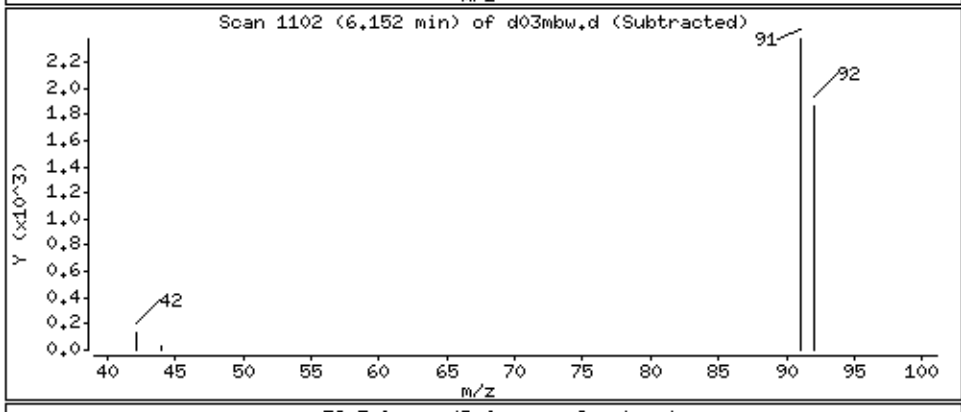
Column diameter: 0.18

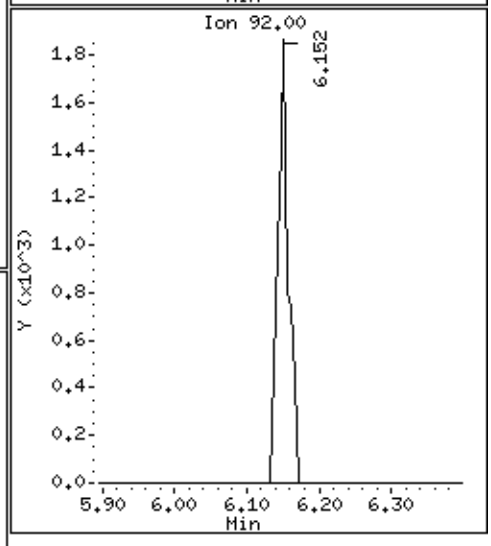
58 Toluene

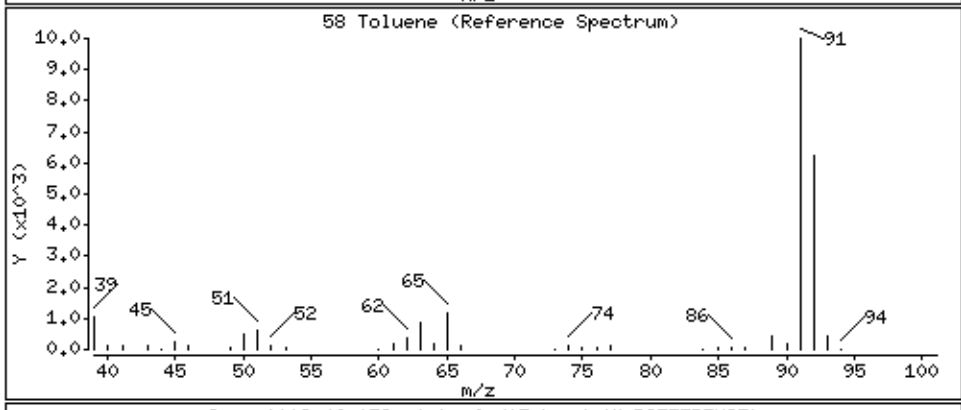
Concentration: 0.536 ppb

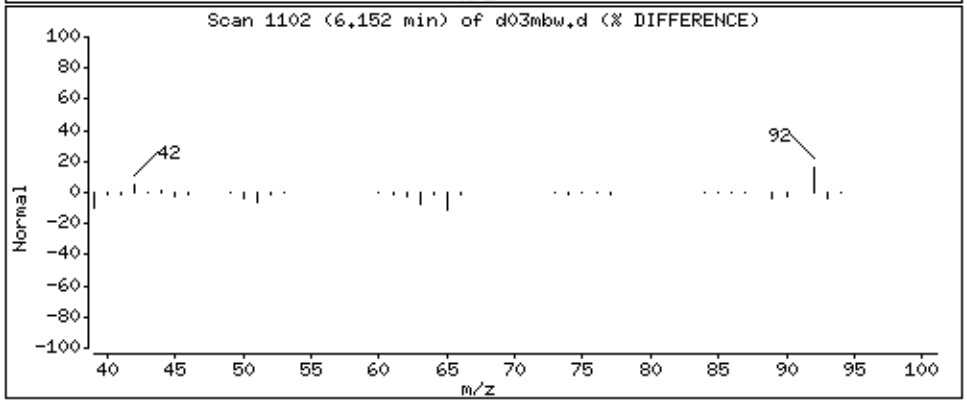












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

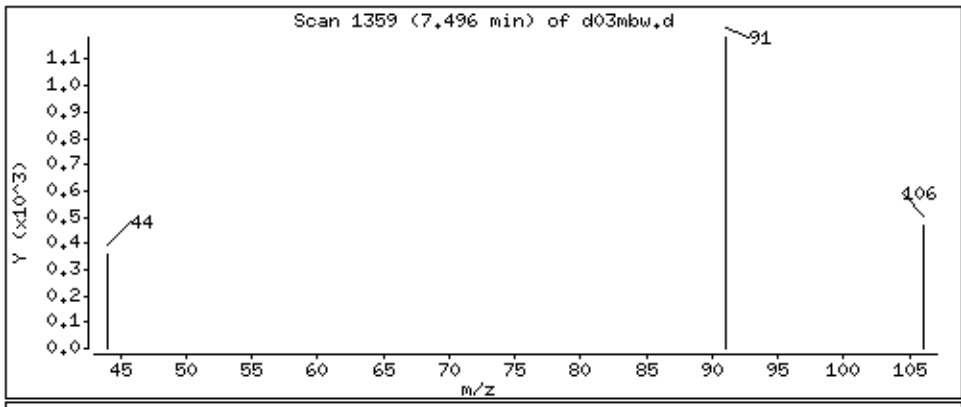
Operator: grm

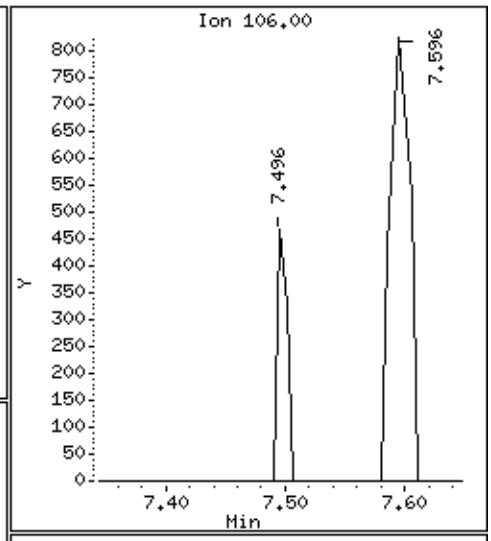
Column phase: DB-624

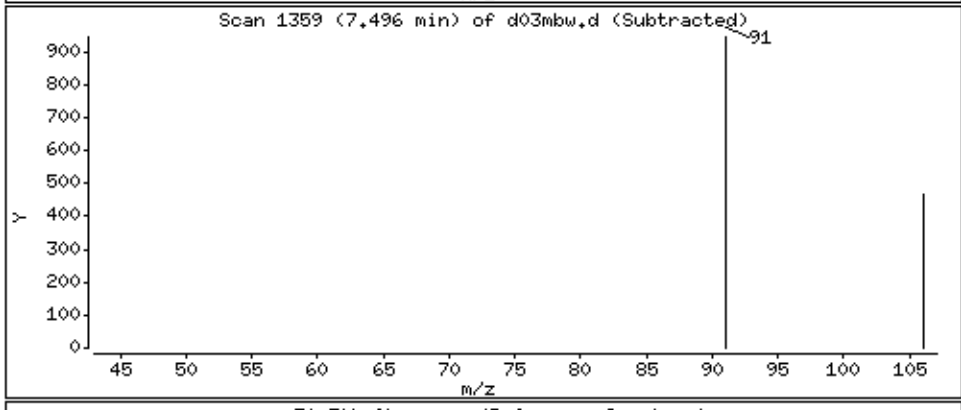
Column diameter: 0.18

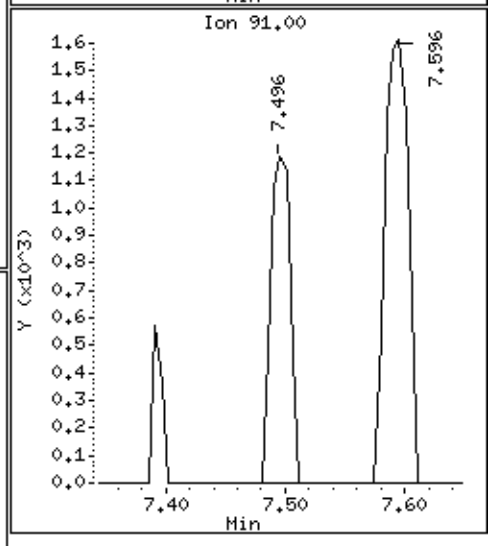
70 Ethylbenzene

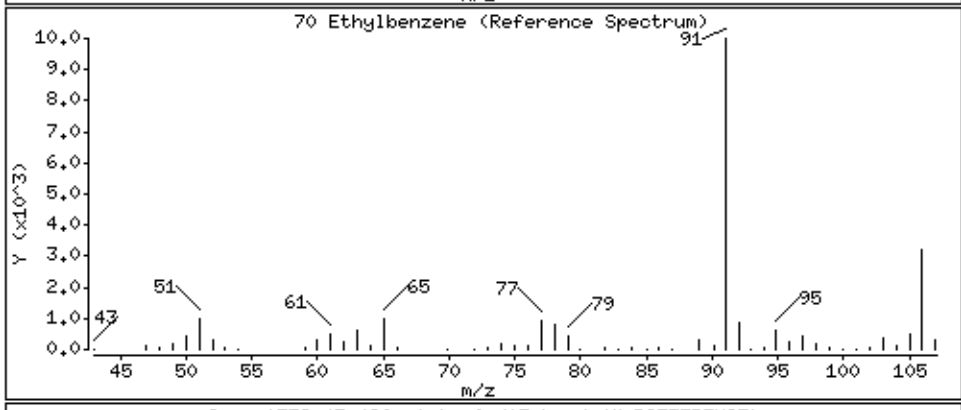
Concentration: 0.102 ppb

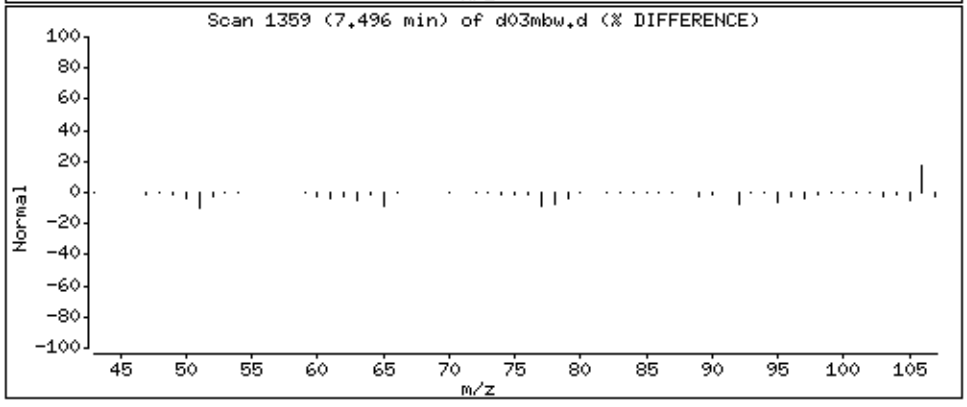












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

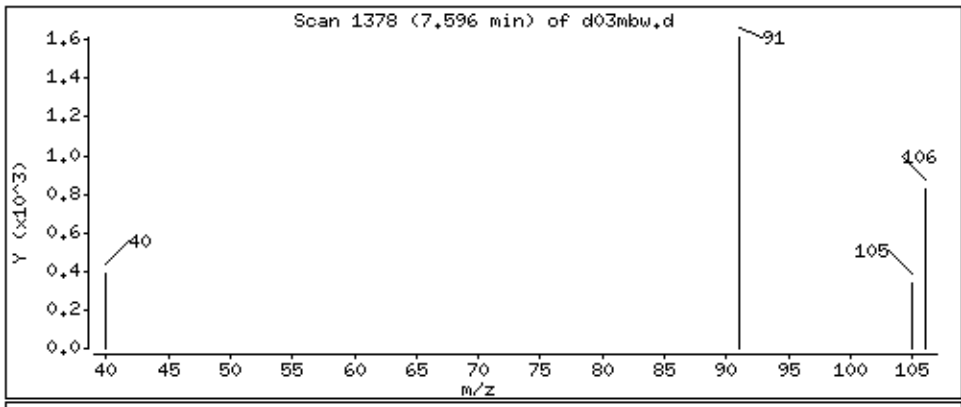
Operator: grm

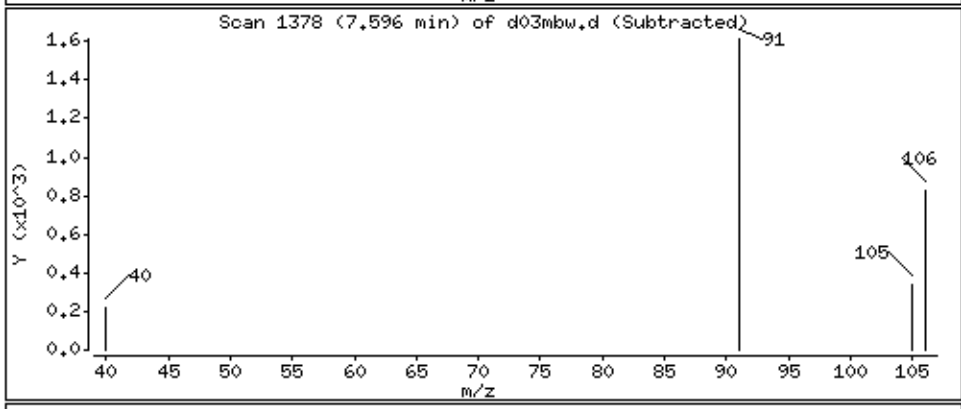
Column phase: DB-624

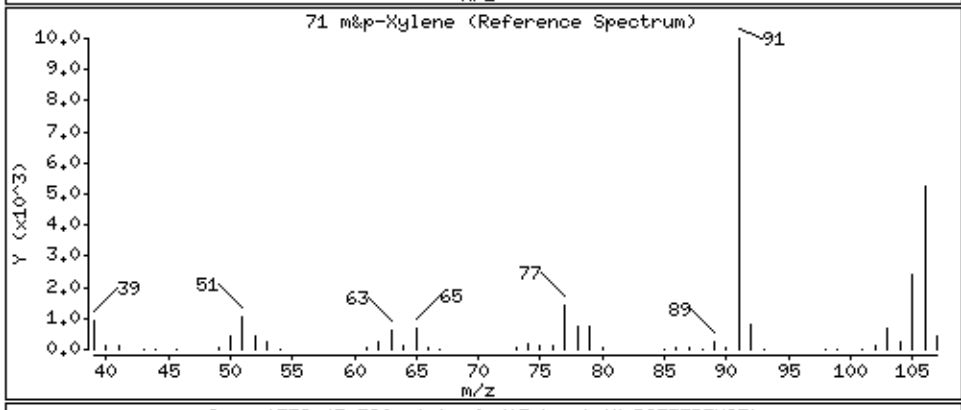
Column diameter: 0.18

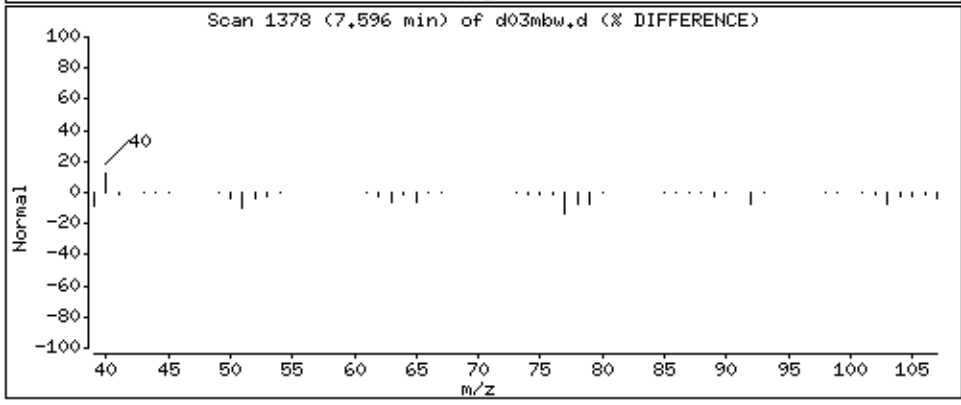
71 m&p-Xylene

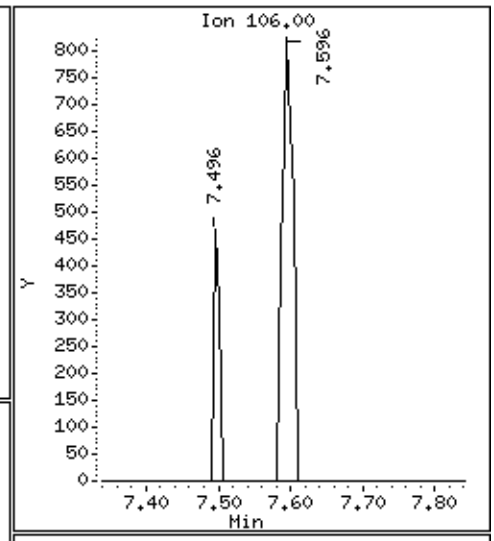
Concentration: 0.315 ppb

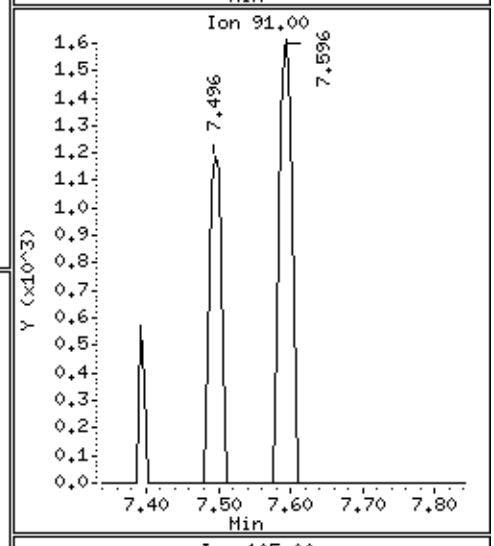


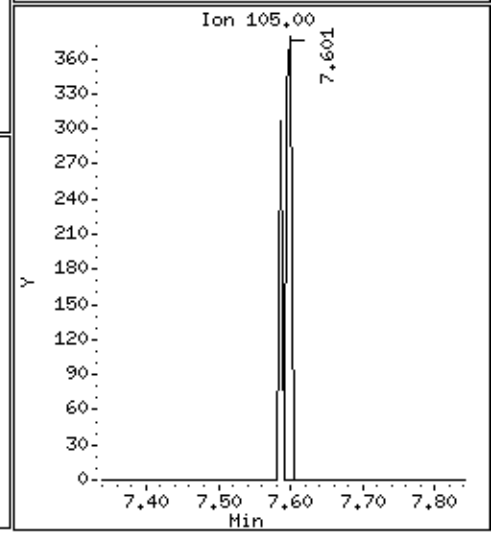












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

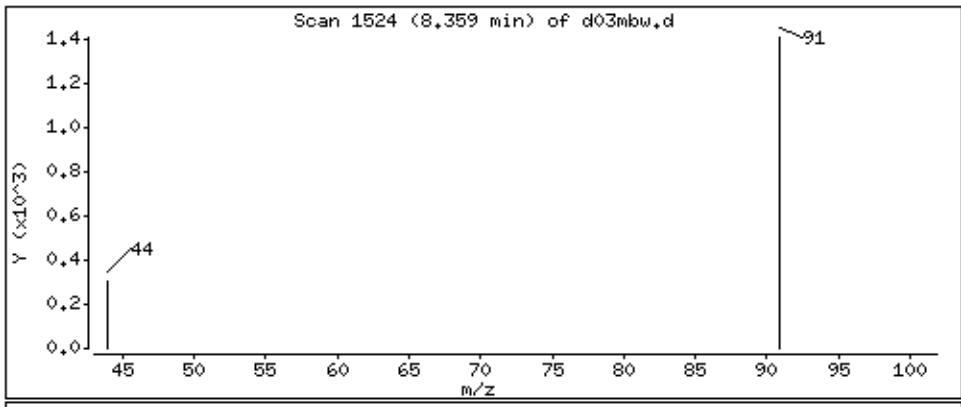
Operator: grm

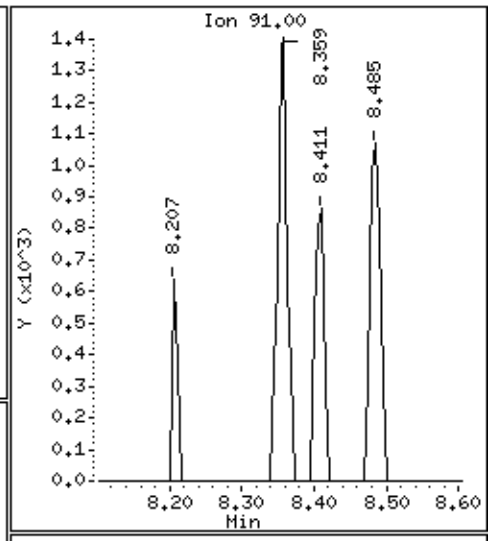
Column phase: DB-624

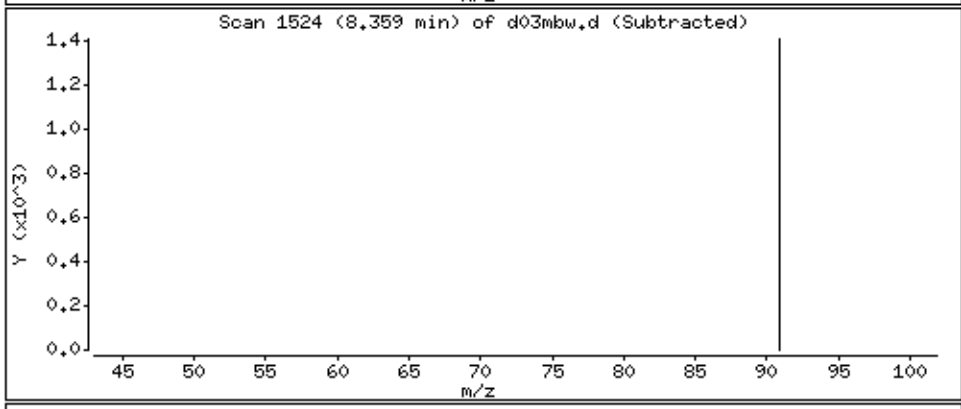
Column diameter: 0.18

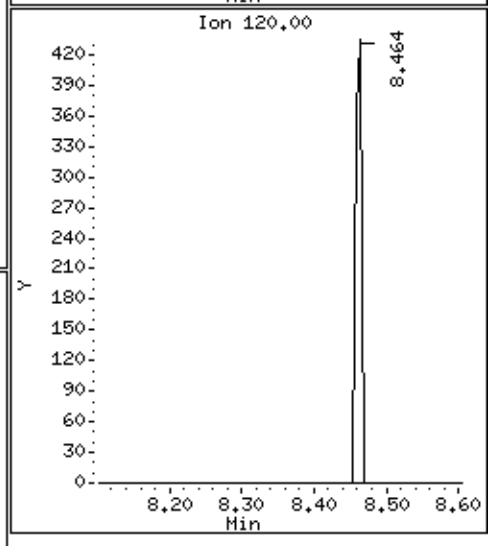
82 n-Propylbenzene

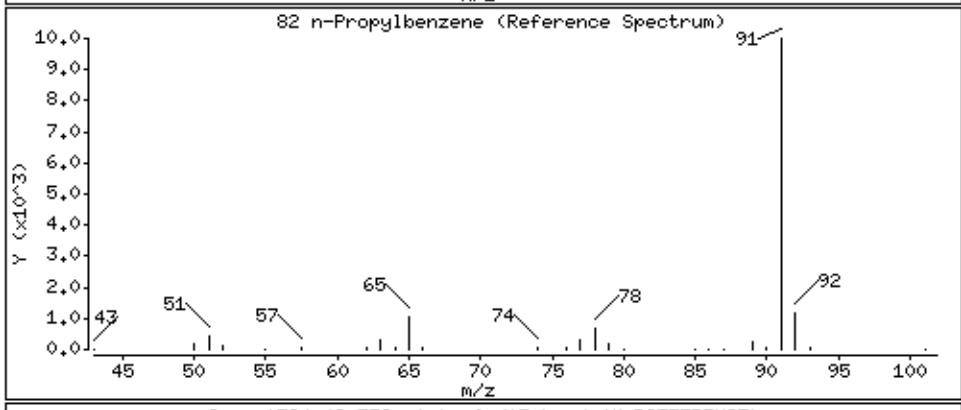
Concentration: 0.160 ppb

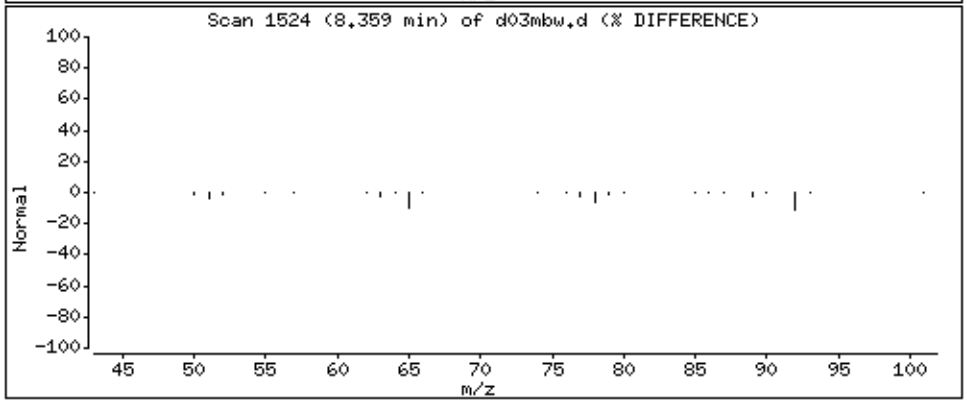












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

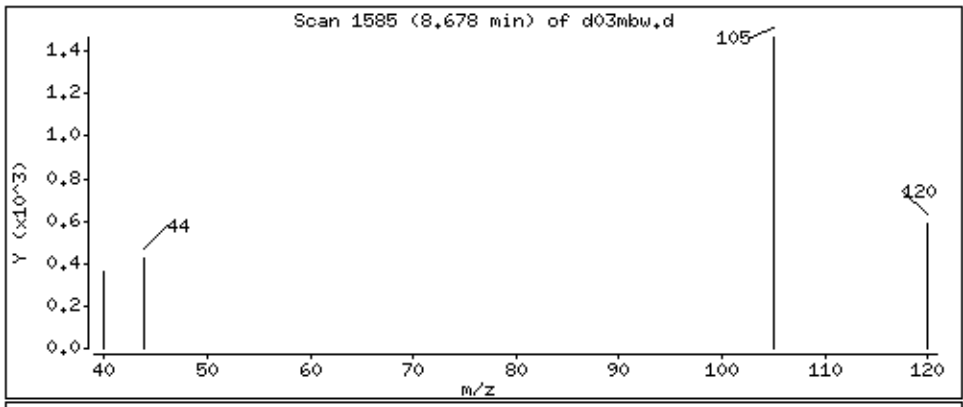
Operator: grm

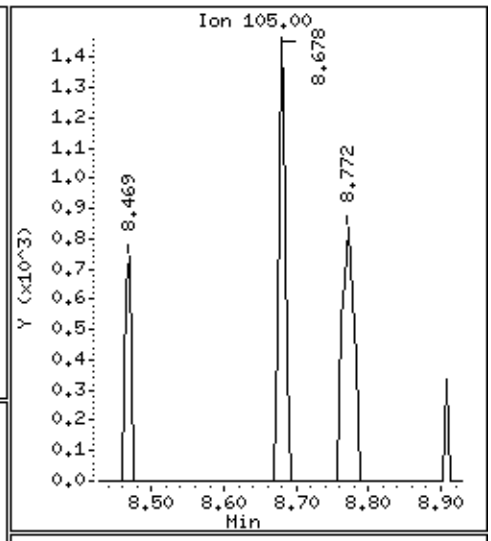
Column phase: DB-624

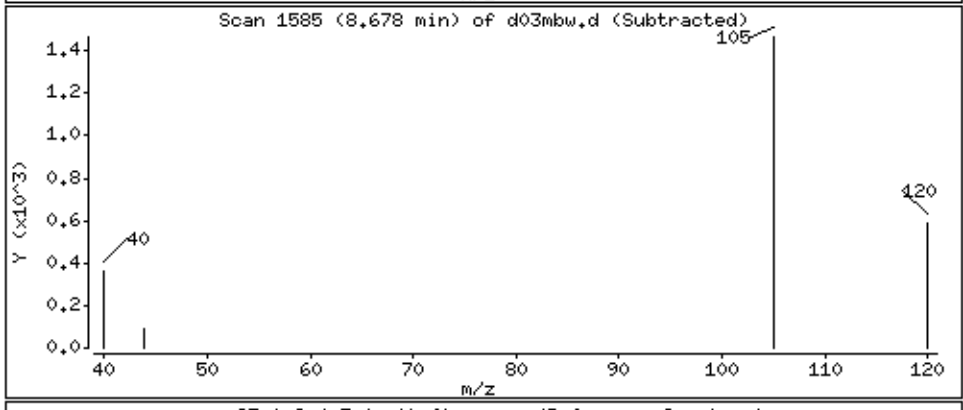
Column diameter: 0.18

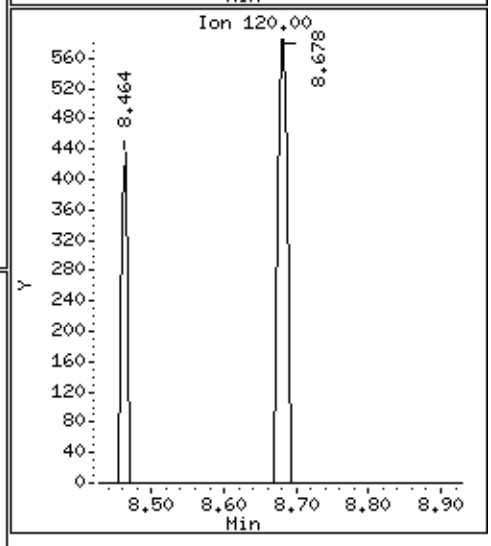
87 1,2,4-Trimethylbenzene

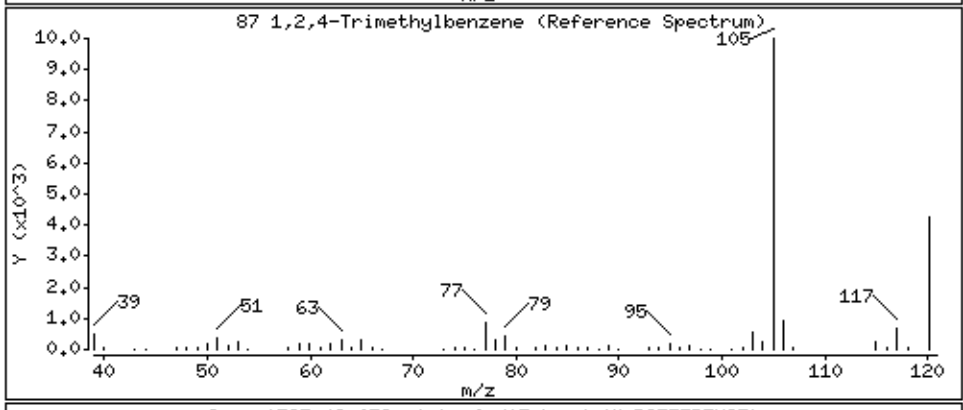
Concentration: 0.171 ppb

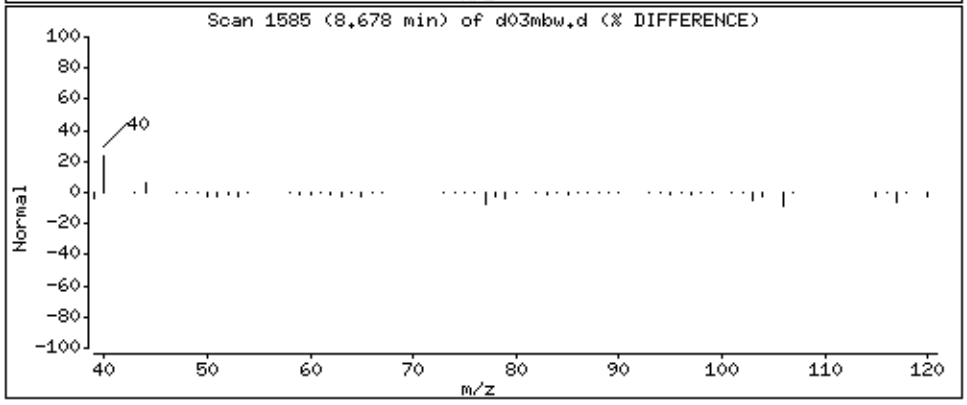












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

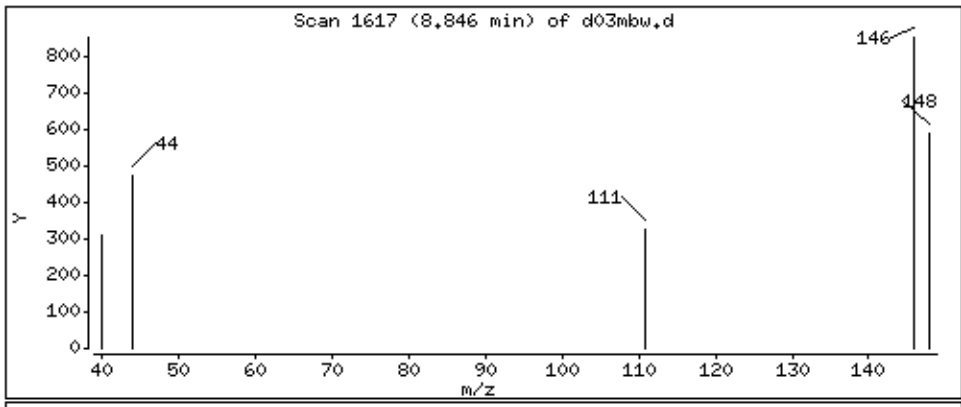
Operator: grm

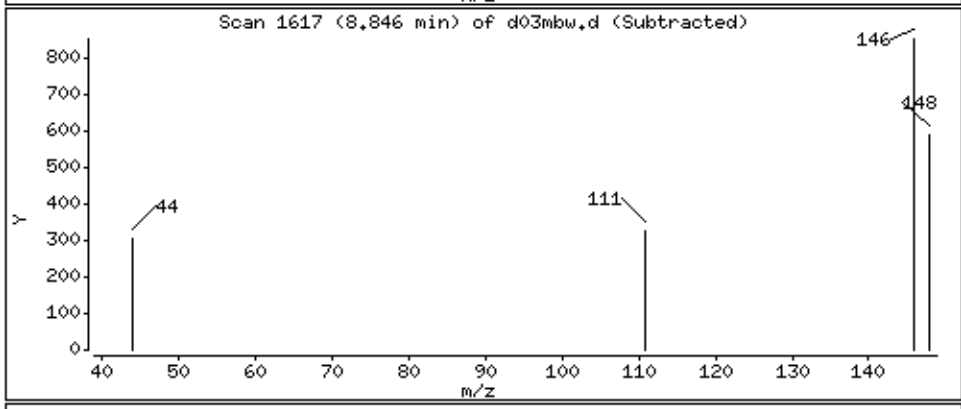
Column phase: DB-624

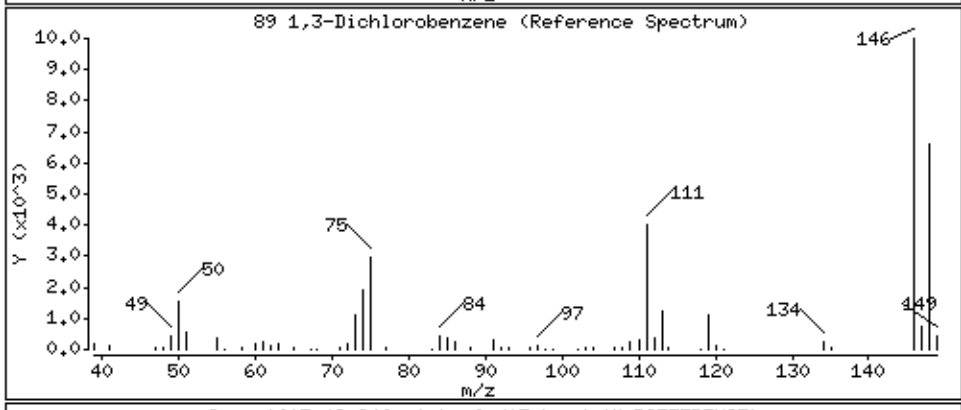
Column diameter: 0.18

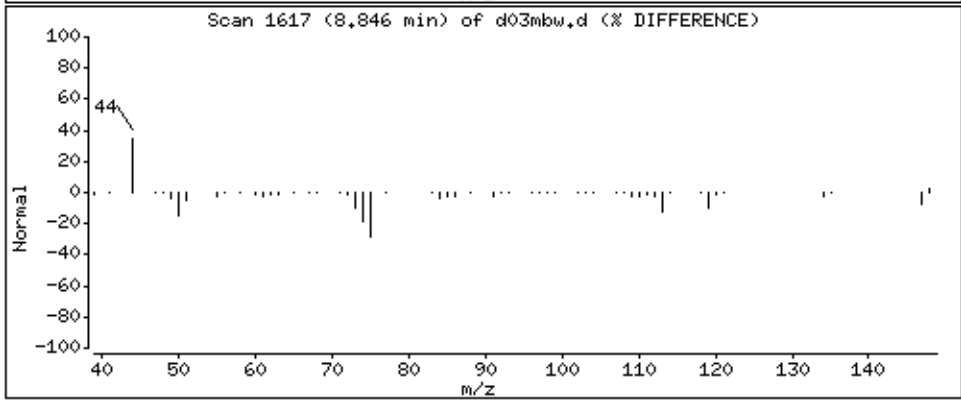
89 1,3-Dichlorobenzene

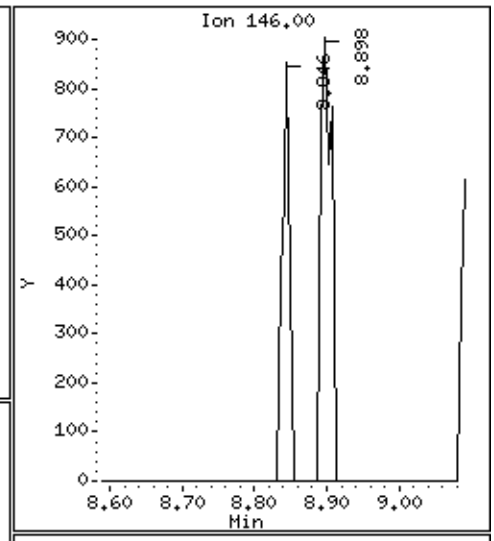
Concentration: 0.181 ppb

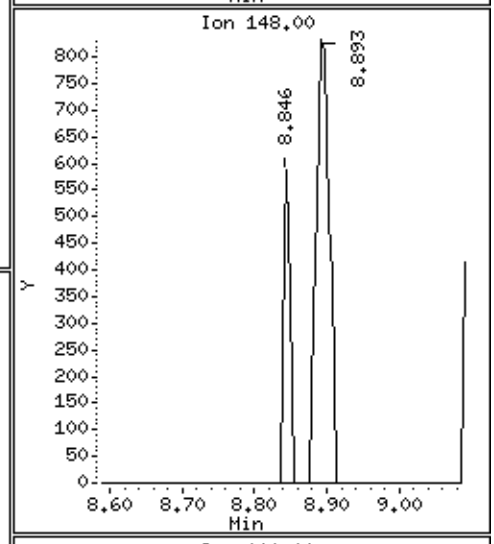


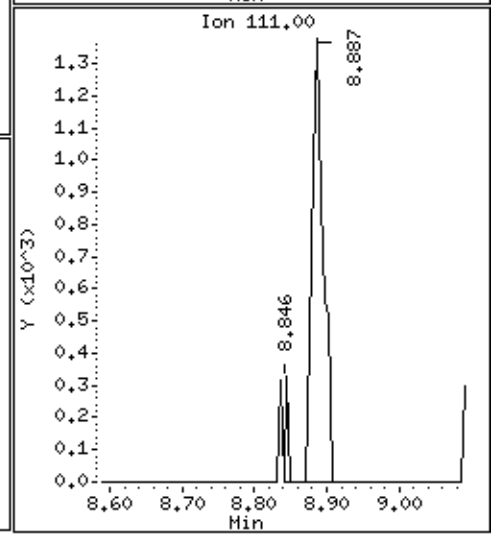












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

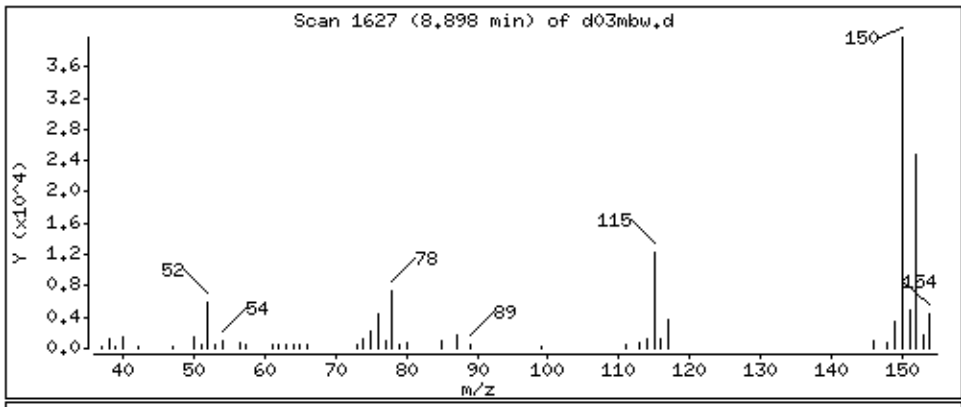
Operator: grm

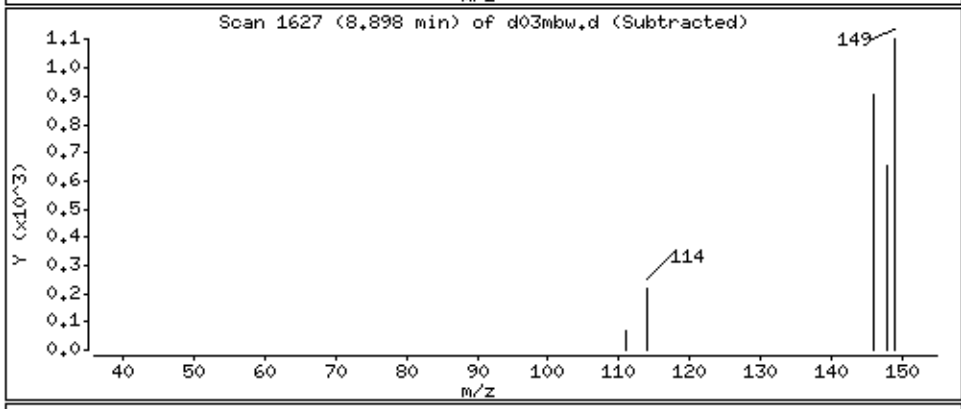
Column phase: DB-624

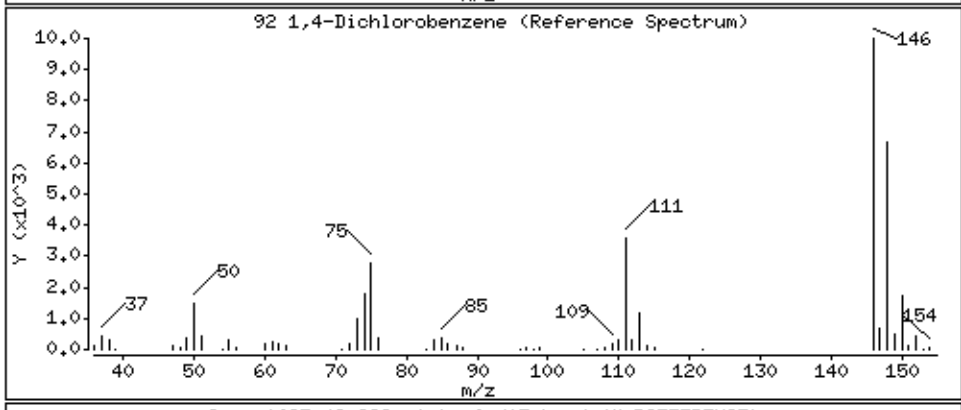
Column diameter: 0.18

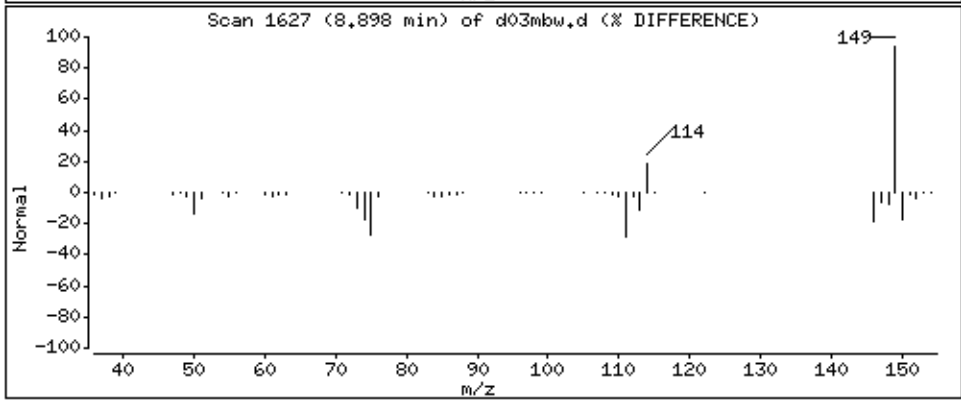
92 1,4-Dichlorobenzene

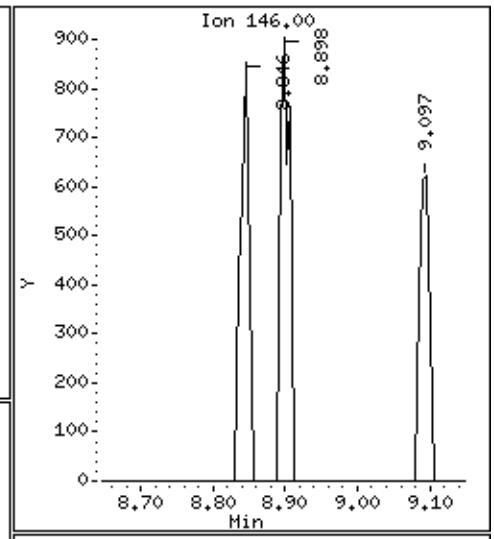
Concentration: 0.242 ppb

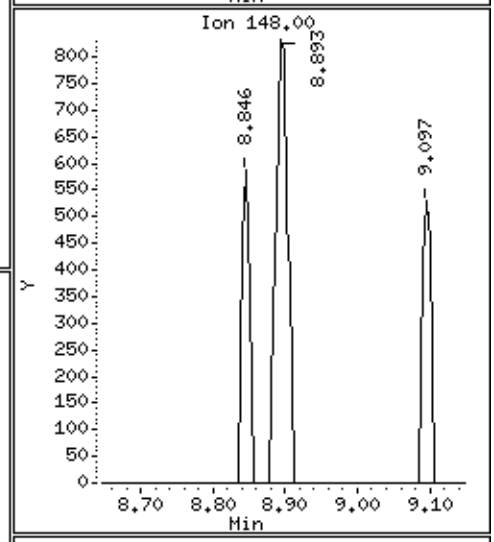


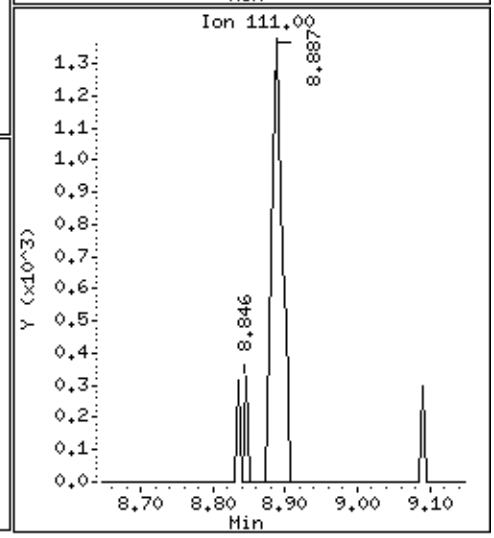












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

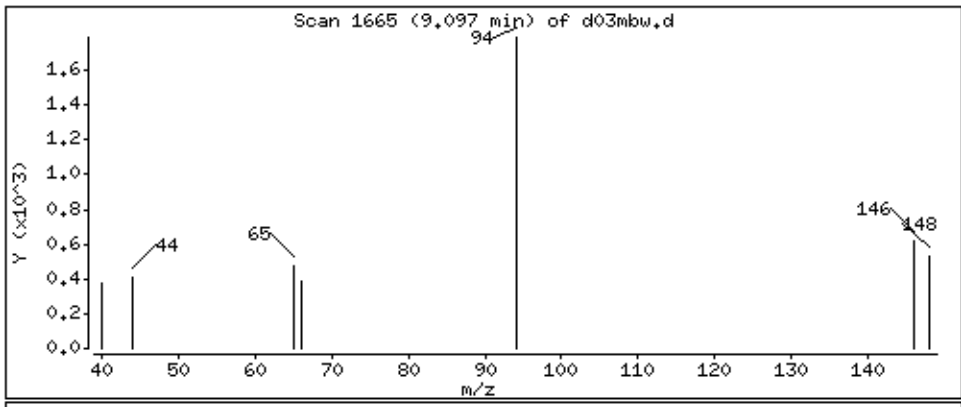
Operator: grm

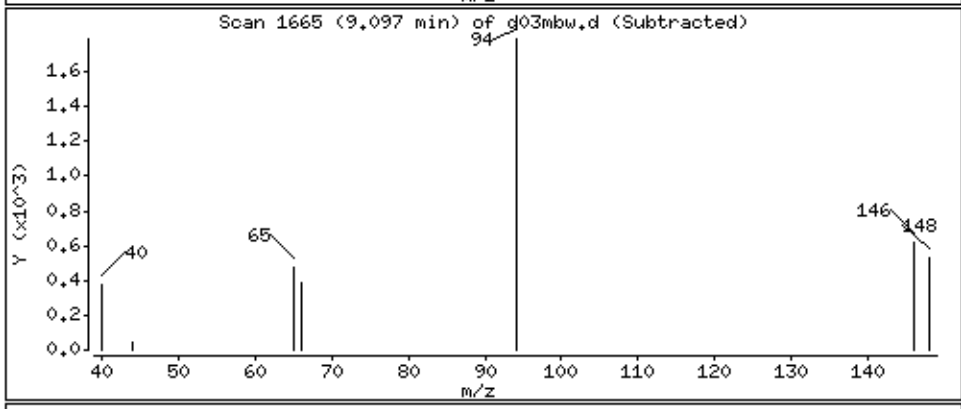
Column phase: DB-624

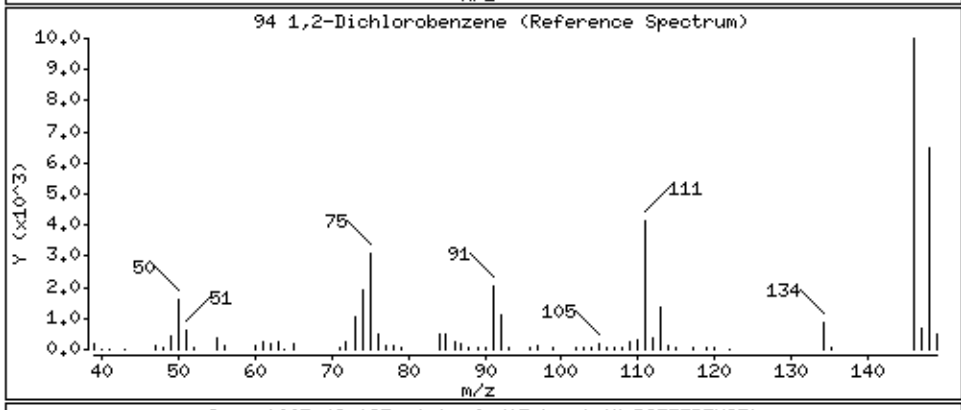
Column diameter: 0.18

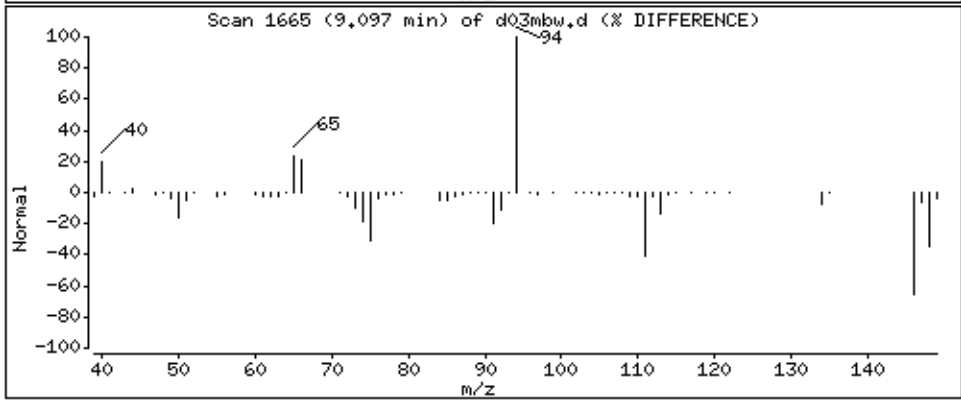
94 1,2-Dichlorobenzene

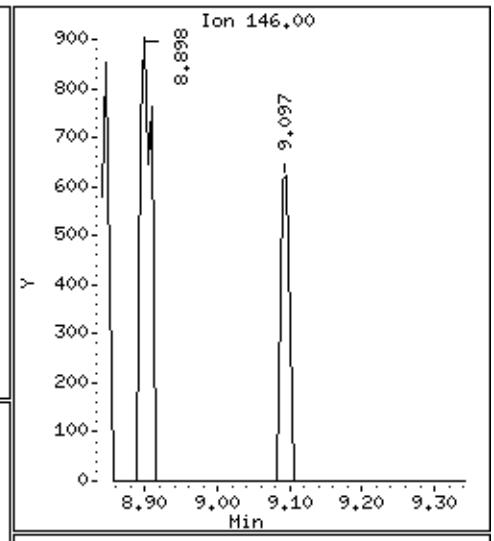
Concentration: 0.174 ppb

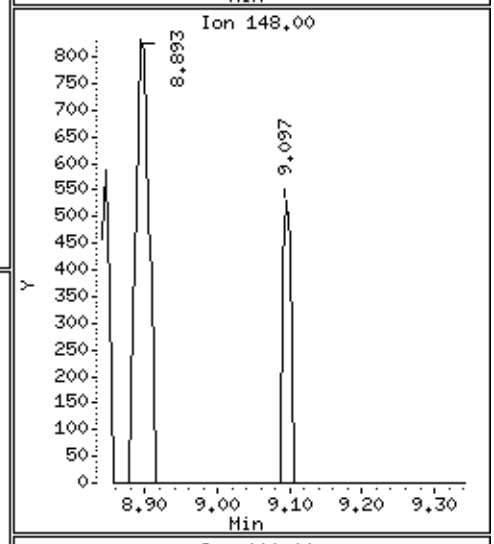


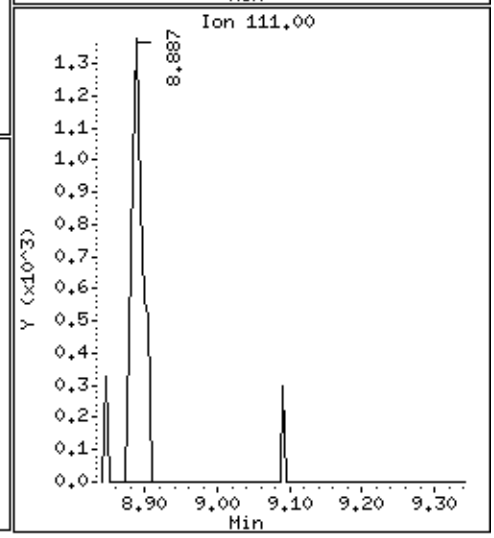












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

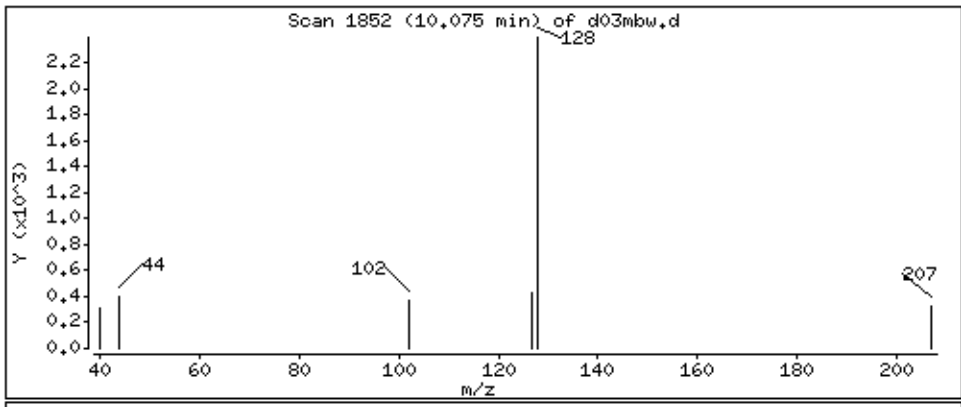
Operator: grm

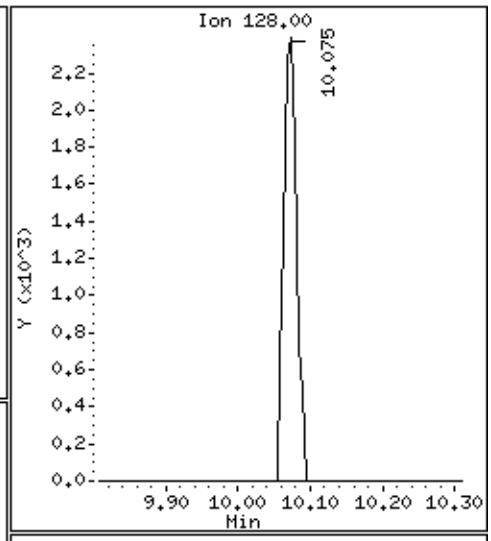
Column phase: DB-624

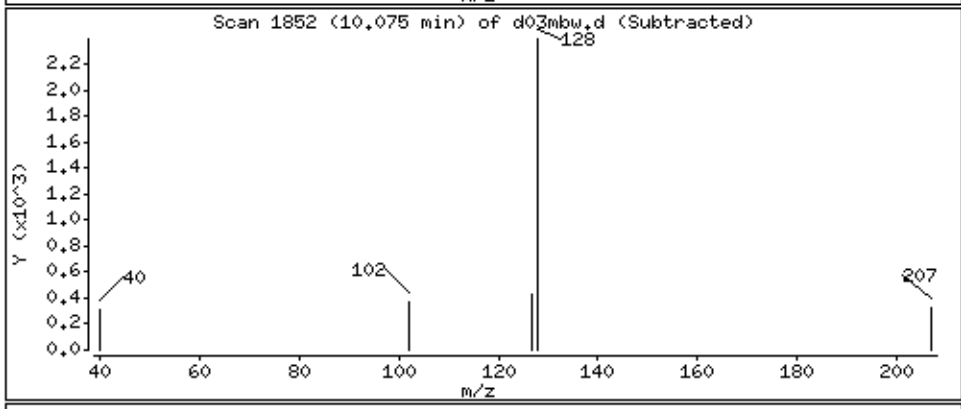
Column diameter: 0.18

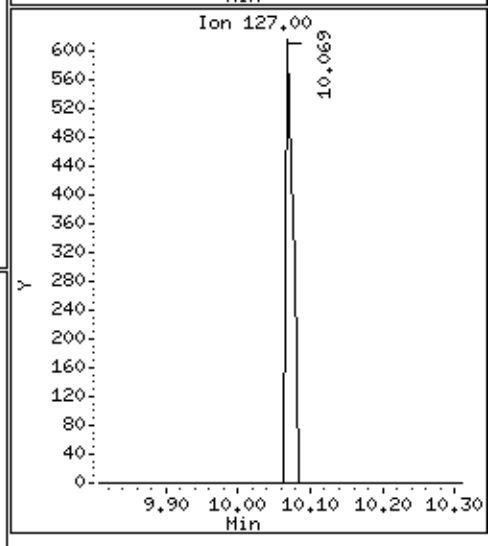
98 Naphthalene

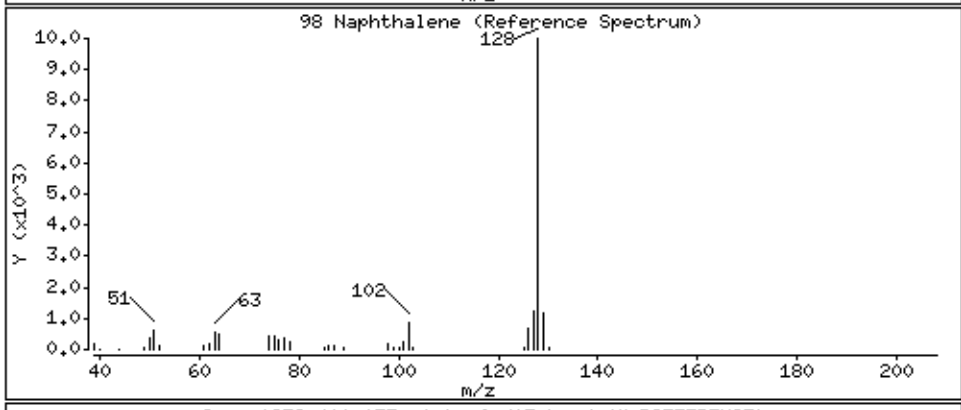
Concentration: 0.520 ppb

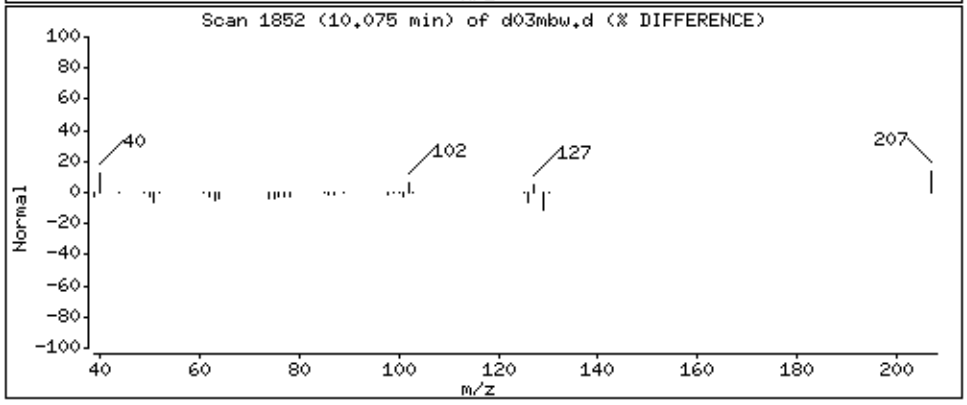












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d03mbw.d

Date : 18-MAR-2016 01:44

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

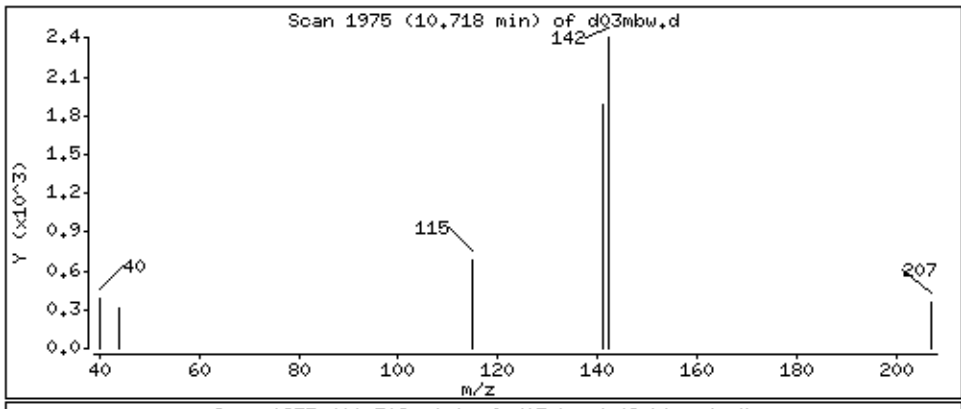
Operator: grm

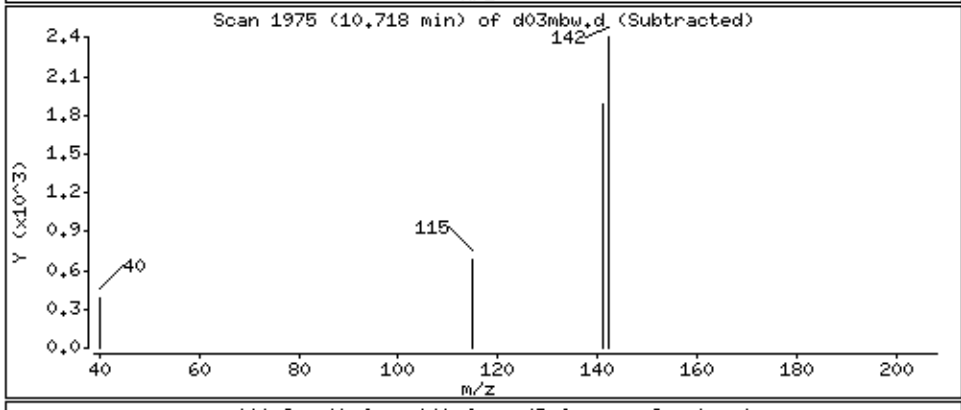
Column phase: DB-624

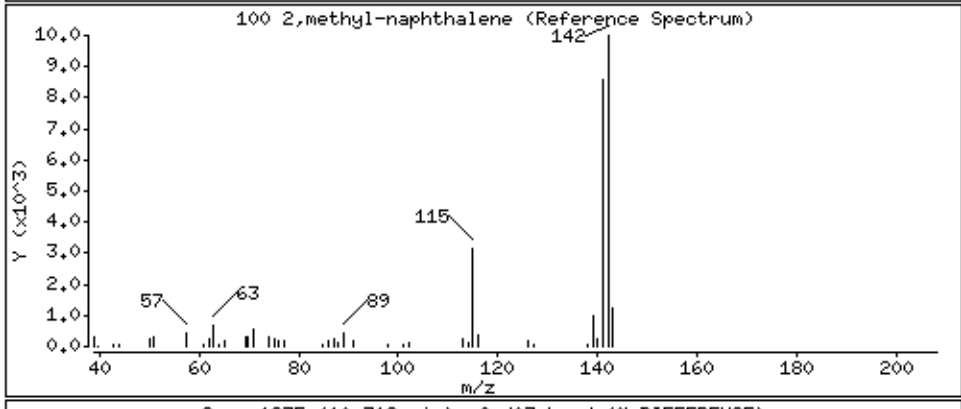
Column diameter: 0.18

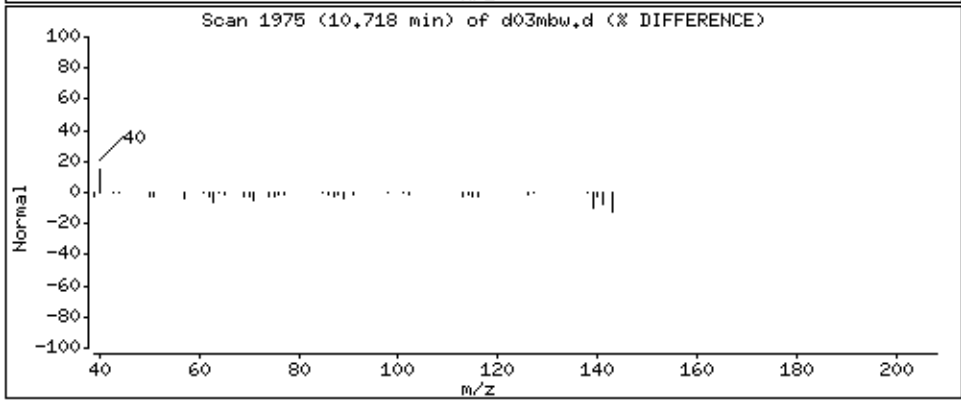
100 2,methyl-naphthalene

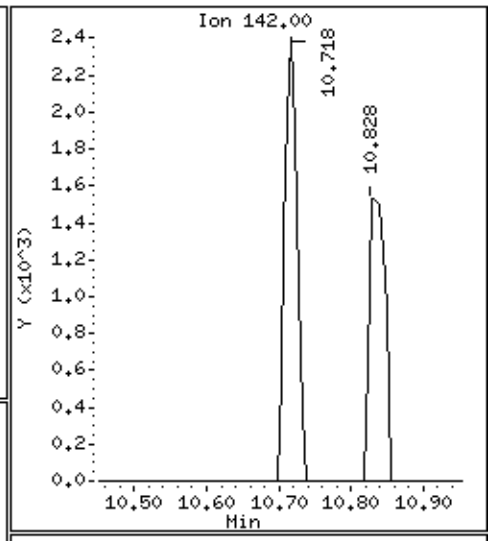
Concentration: 0.767 ppb

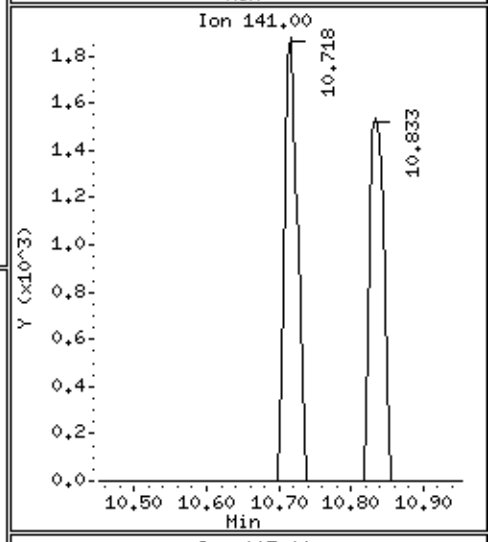


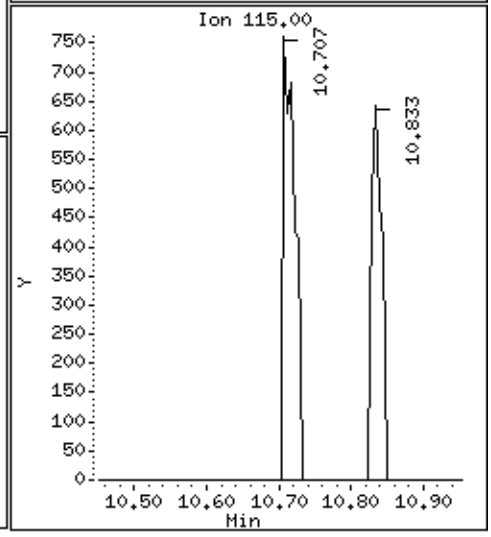












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d03mbw.d
Injection Date: 18-MAR-2016 01:44
Instrument: 50mv1b.i
Lab Sample ID: 1500384
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 01:09 Lab Sample ID: 1500385

Date Analyzed: 03/18/2016 01:09 Lab File ID: B031716.B\D02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	54.0	
108-90-7	Chlorobenzene	51.5	
67-66-3	Chloroform	52.4	
75-35-4	1,1-Dichloroethene	53.9	
156-59-2	cis-1,2-Dichloroethene	53.9	
156-60-5	trans-1,2-Dichloroethene	53.9	
78-87-5	1,2-Dichloropropane	51.4	
100-41-4	Ethylbenzene	52.4	
98-82-8	Isopropylbenzene (Cumene)	53.9	
1634-04-4	Methyl-tert-butyl ether	51.8	
79-34-5	1,1,2,2-Tetrachloroethane	51.6	
127-18-4	Tetrachloroethene	55.7	
108-88-3	Toluene	52.3	
71-55-6	1,1,1-Trichloroethane	53.6	
79-01-6	Trichloroethene	56.2	
75-01-4	Vinyl chloride	52.5	
1330-20-7	Xylene (Total)	159	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d
Lab Smp Id: 1500385,117024:5 Client Smp ID: LCSw,117024:5
Inj Date : 18-MAR-2016 01:09
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1500385,117024:5
Misc Info : 88040
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 75 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

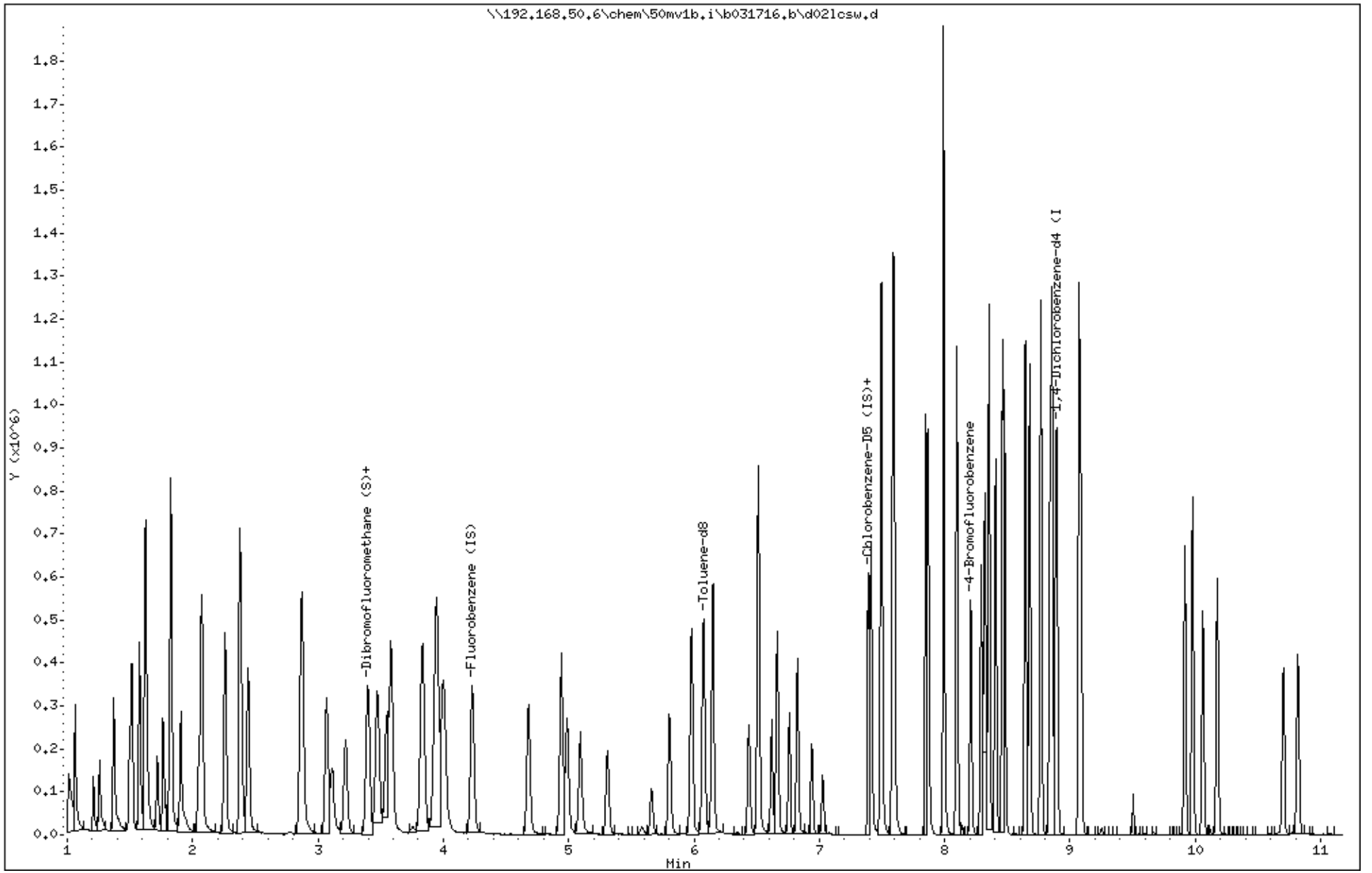
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.062	1.062	(0.251)	159796	52.4706	52.5	
	11 1,1-Dichloroethene	96	1.627	1.627	(0.385)	82820	53.8867	53.9	
	21 Methyl-tert-butyl ether	73	2.066	2.067	(0.488)	218807	51.8329	51.8	
	22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	94525	53.9304	53.9	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	98431	53.9301	53.9	
	35 Chloroform	83	3.222	3.222	(0.761)	171199	52.4307	52.4	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	158004	53.6314	53.6	
$	38 Dibromofluoromethane (S)	113	3.400	3.400	(0.803)	84252	48.8646	48.9	
	42 Benzene	78	3.834	3.834	(0.906)	364506	54.0264	54.0	
*	46 Fluorobenzene (IS)	96	4.232	4.232	(1.000)	332031	50.0000		
	47 Trichloroethene	95	4.681	4.682	(1.106)	99686	56.1753	56.2	
	49 1,2-Dichloropropane	63	4.990	4.990	(1.179)	89787	51.3700	51.4	
$	57 Toluene-d8	98	6.078	6.073	(0.822)	304956	50.9240	50.9	
	58 Toluene	91	6.151	6.146	(0.832)	383803	52.2534	52.2	
	62 Tetrachloroethene	166	6.664	6.664	(0.902)	111402	55.7266	55.7	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.391	(1.000)	230632	50.0000		
	68 Chlorobenzene	112	7.412	7.412	(1.003)	243436	51.4789	51.5	
	70 Ethylbenzene	106	7.495	7.495	(1.014)	135935	52.3793	52.4	
	71 m&p-Xylene	106	7.595	7.590	(1.028)	341779	105.200	105	
	72 o-Xylene	106	7.851	7.851	(1.062)	169539	53.3110	53.3	
	75 Isopropylbenzene	105	8.097	8.097	(1.096)	482638	53.8559	53.8	
$	76 4-Bromofluorobenzene	95	8.207	8.207	(1.110)	112363	53.6689	53.7	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.301	(0.934)	79753	51.6433	51.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.677	8.677	(0.976)	383211	51.6095	51.6	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	128567	50.0000		
98 Naphthalene	128	10.058	10.058	(1.132)	309613	47.1189	47.1	

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d
Date : 18-MAR-2016 01:09
Client ID: LCSw,117024:5
Instrument: 50mv1b.i
Sample Info: 1500385,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

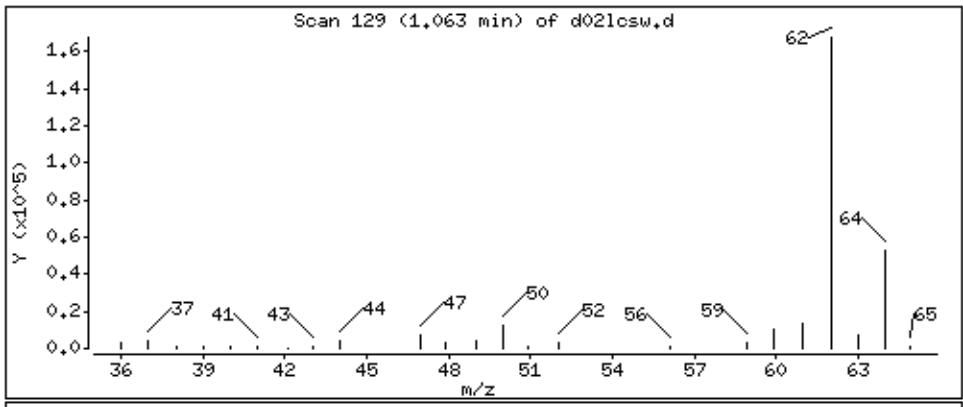
Operator: grm

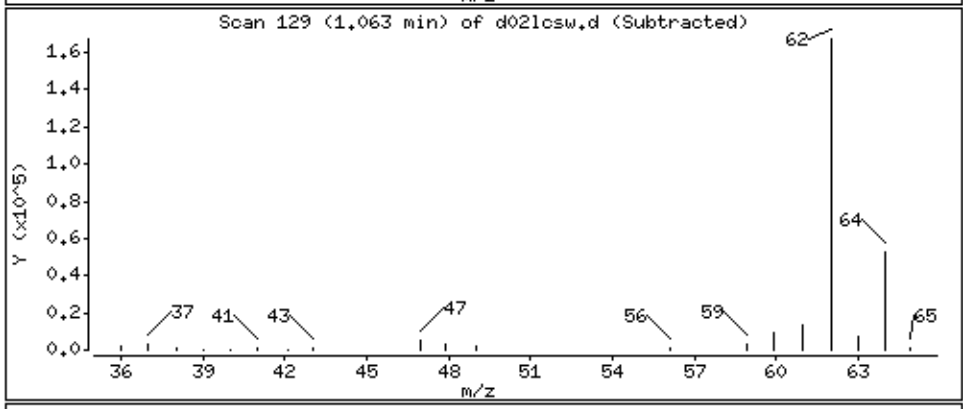
Column phase: DB-624

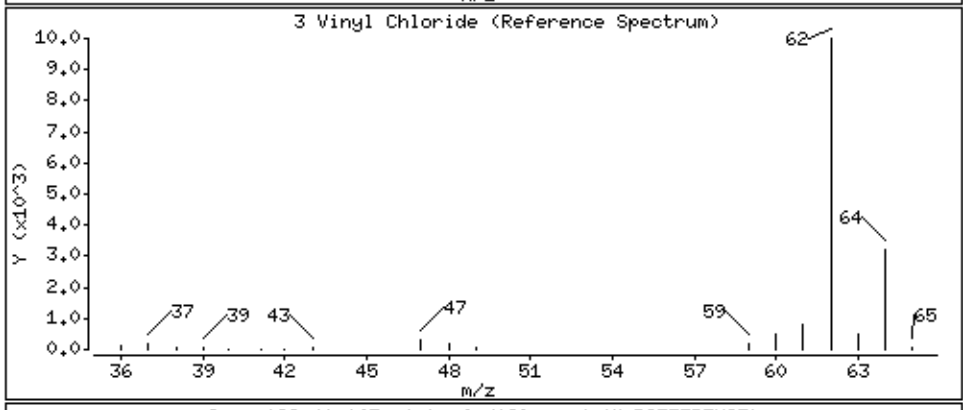
Column diameter: 0.18

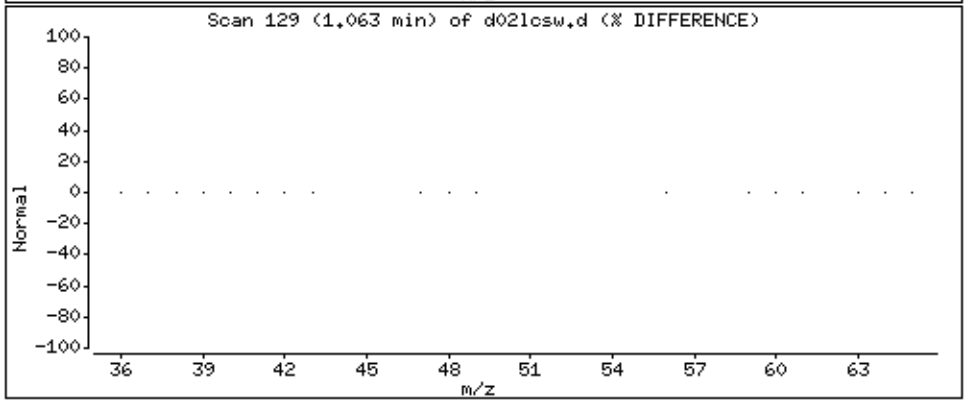
3 Vinyl Chloride

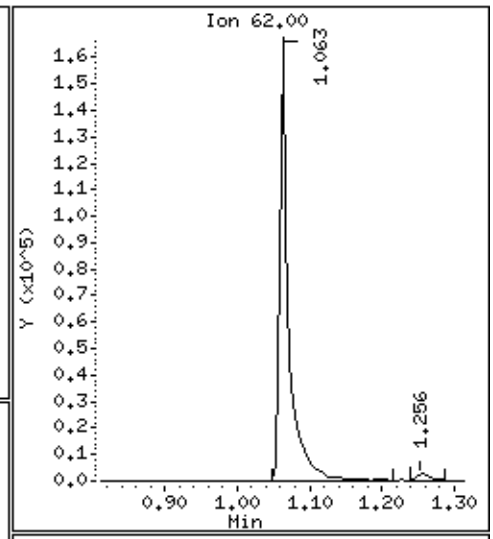
Concentration: 52.5 ppb

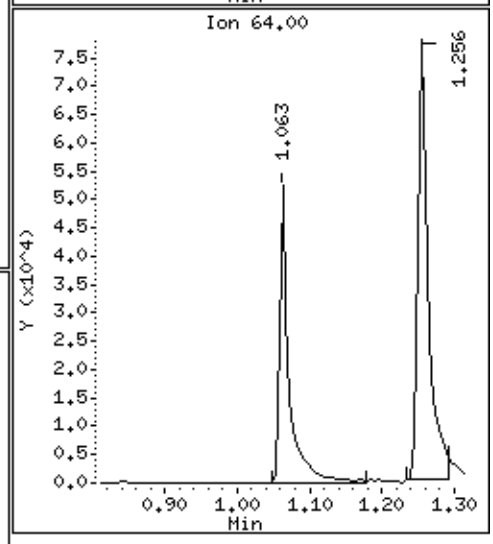












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

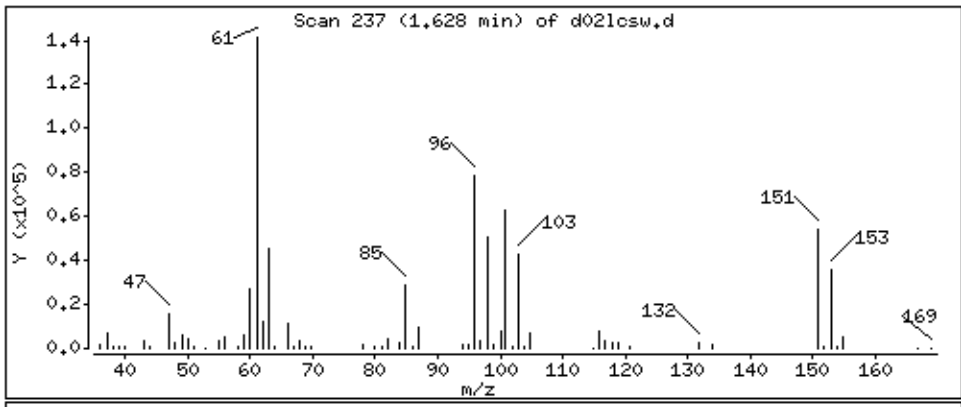
Client ID: LCSw,117024:5 Instrument: 50mv1b.i

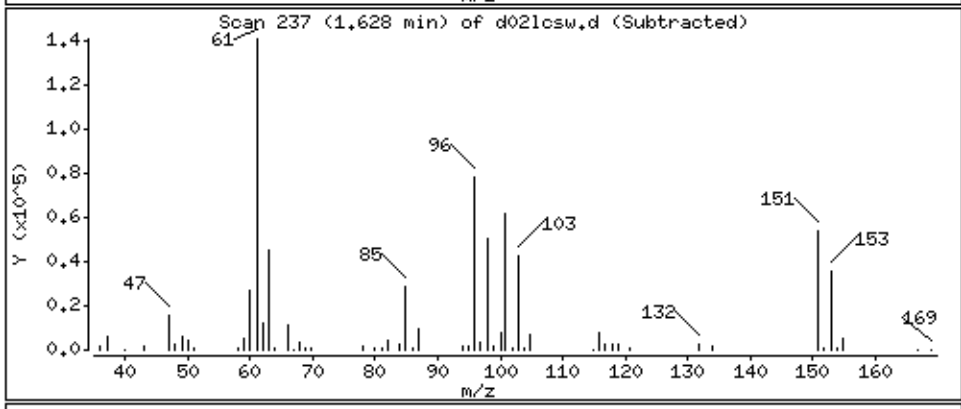
Sample Info: 1500385,117024:5

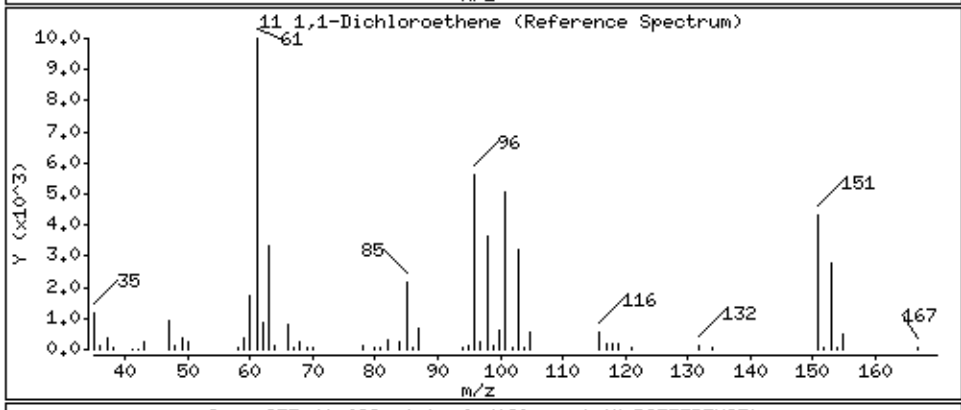
Purge Volume: 5.0 Operator: grm

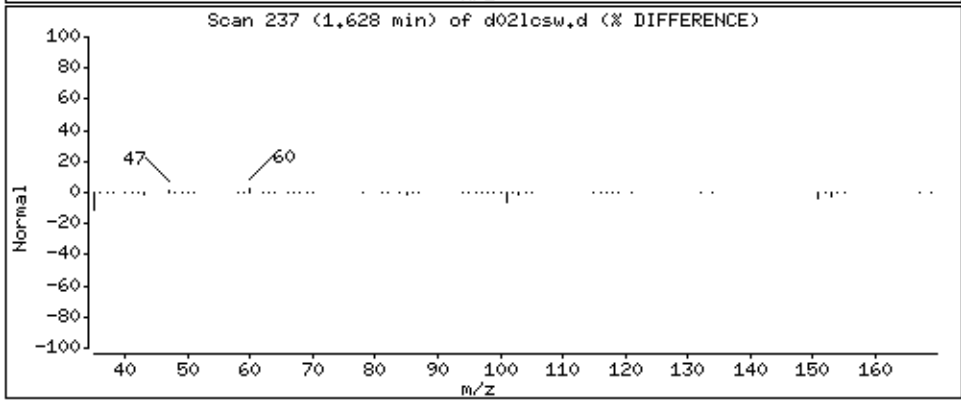
Column phase: DB-624 Column diameter: 0.18

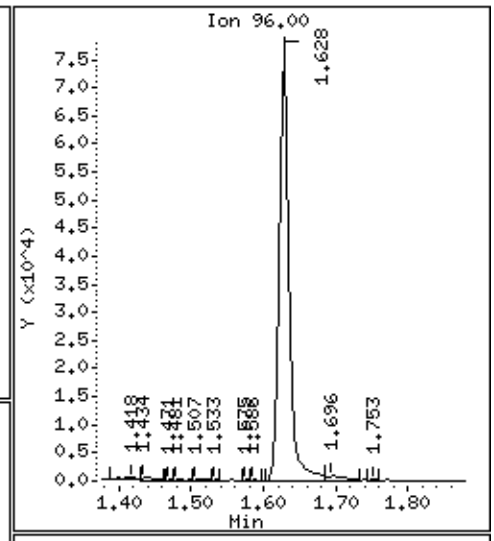
11 1,1-Dichloroethene Concentration: 53.9 ppb

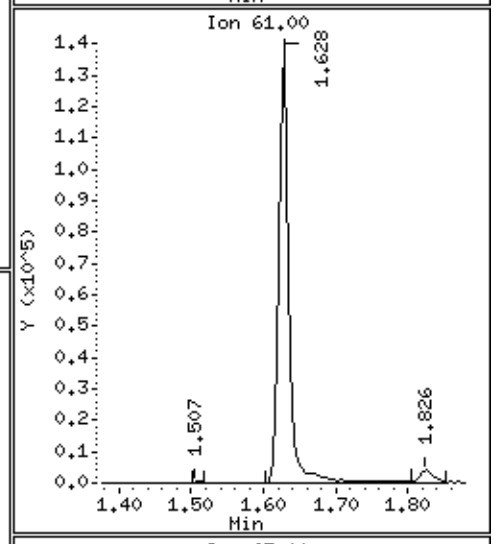


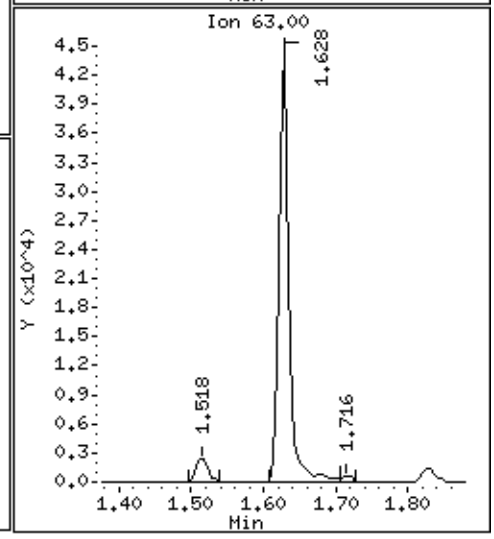












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

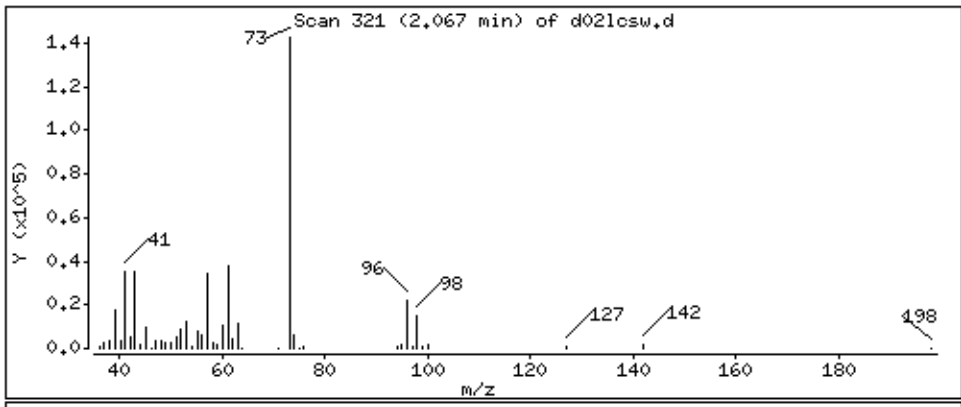
Operator: grm

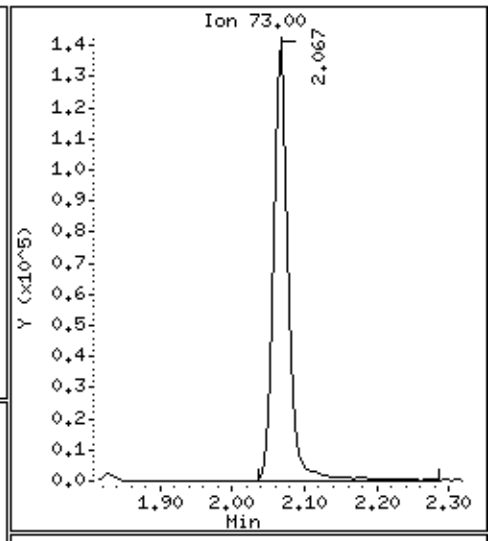
Column phase: DB-624

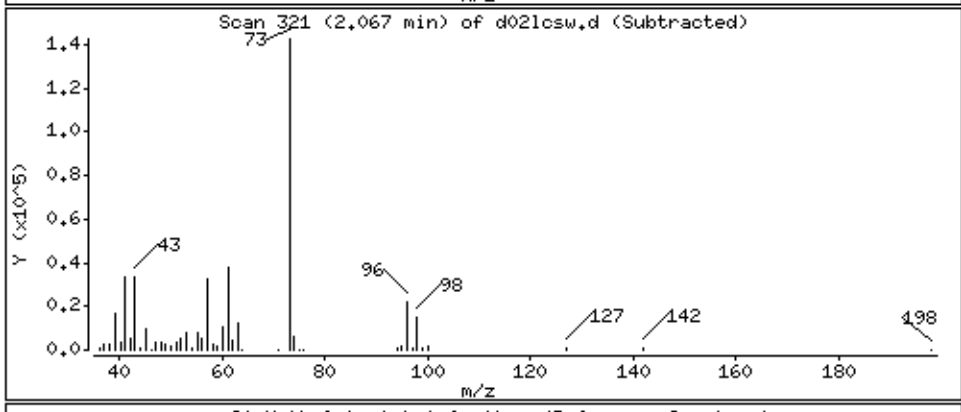
Column diameter: 0.18

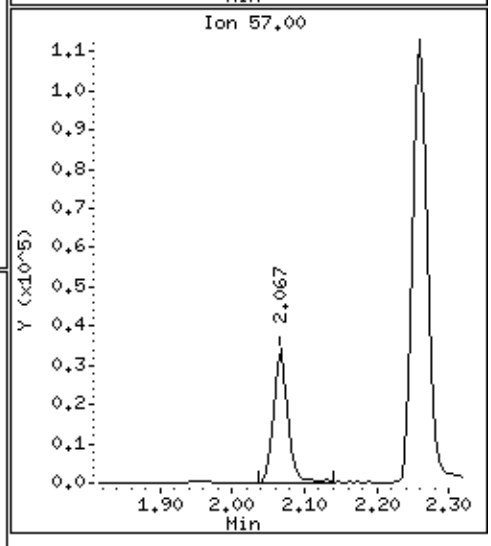
21 Methyl-tert-butyl ether

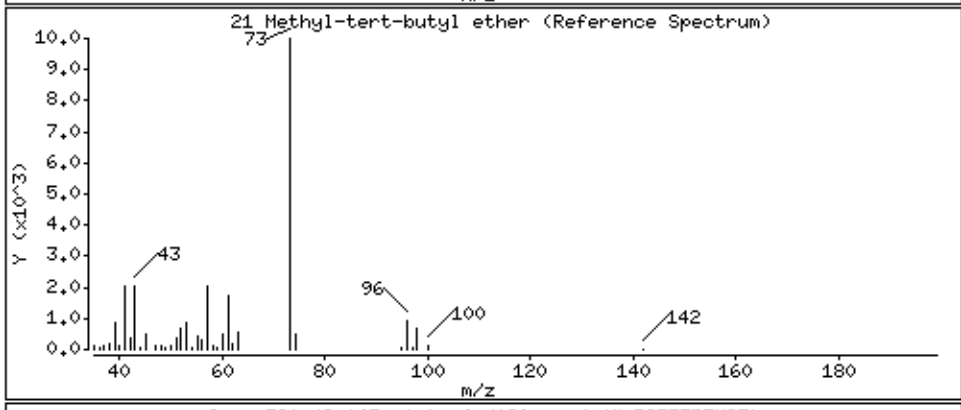
Concentration: 51.8 ppb

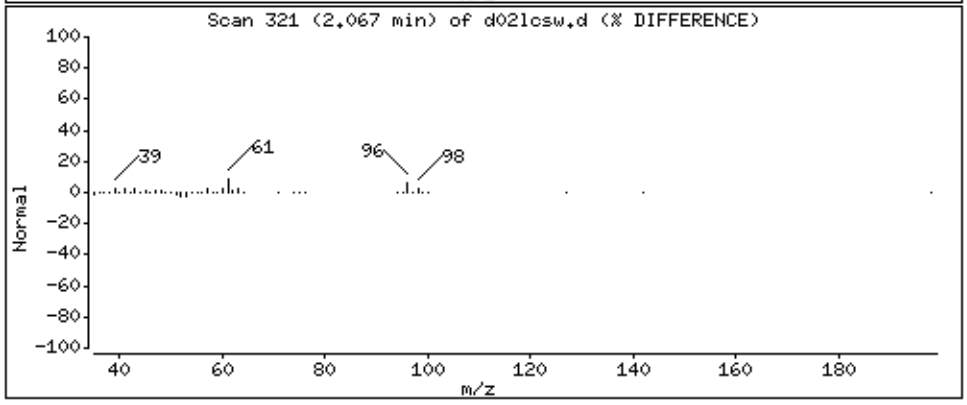












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

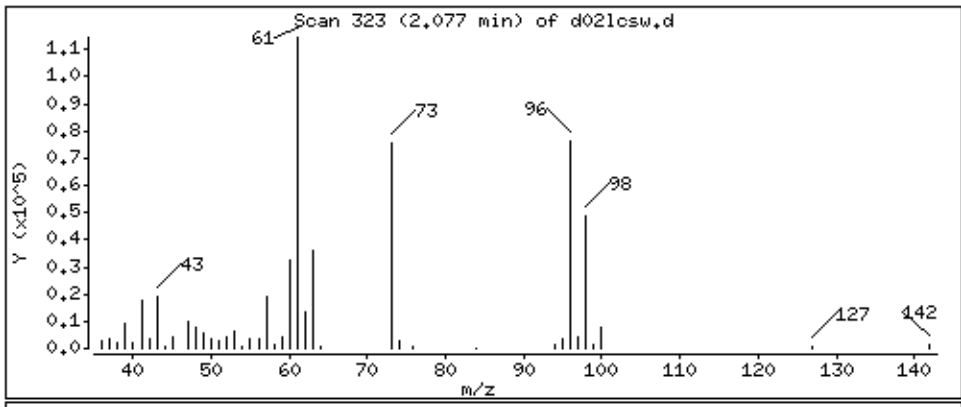
Operator: grm

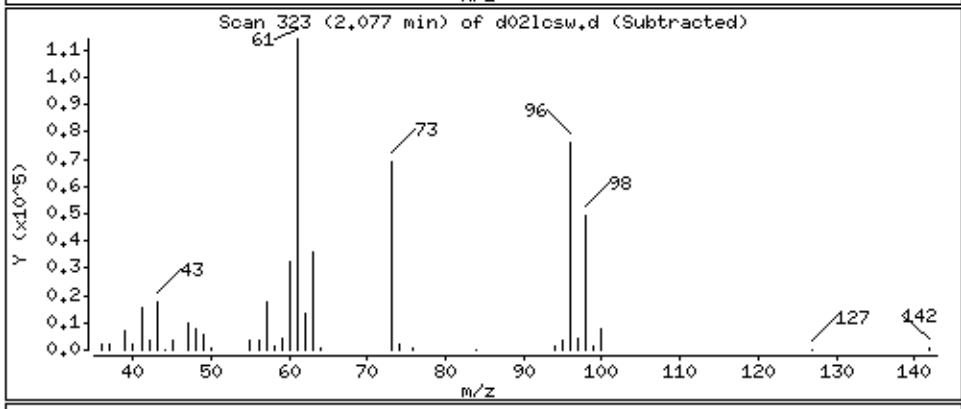
Column phase: DB-624

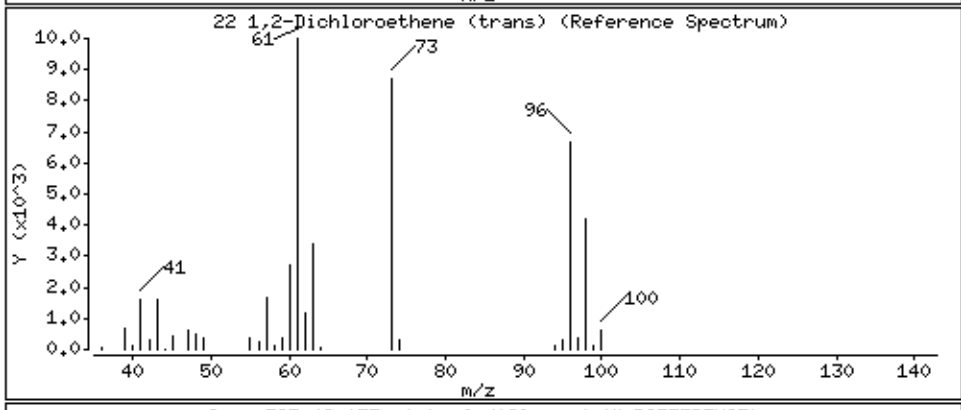
Column diameter: 0.18

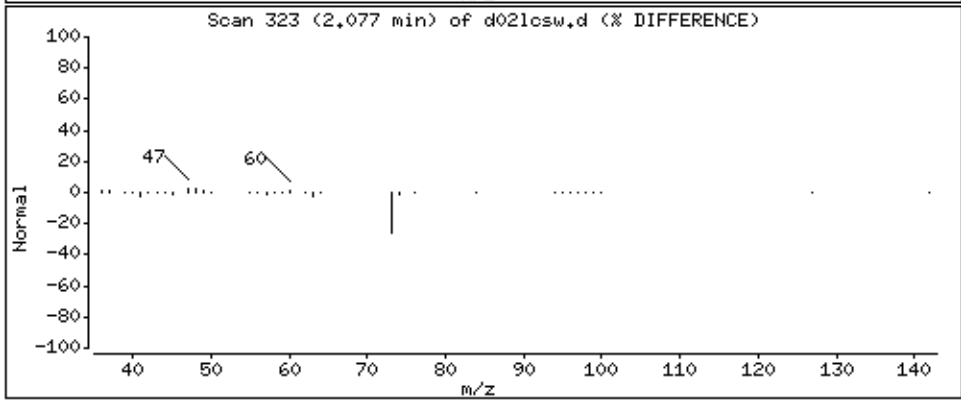
22 1,2-Dichloroethene (trans)

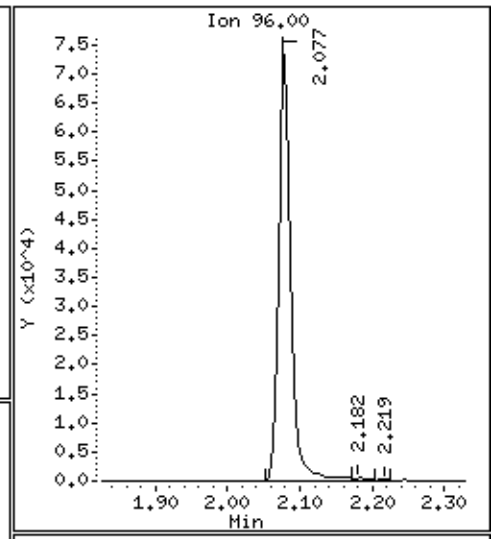
Concentration: 53.9 ppb

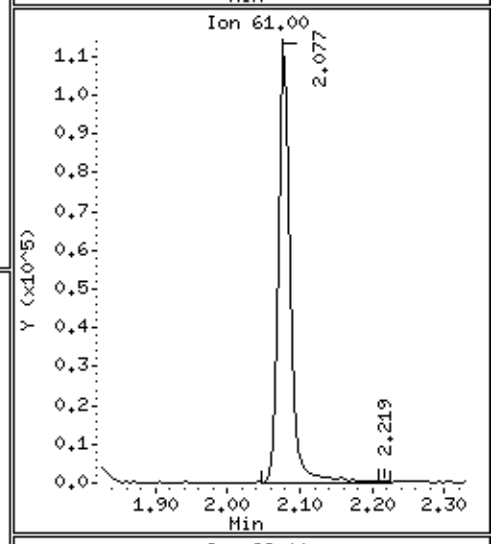


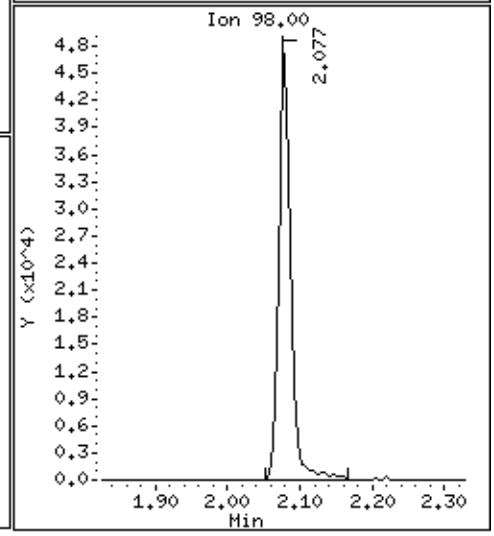












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

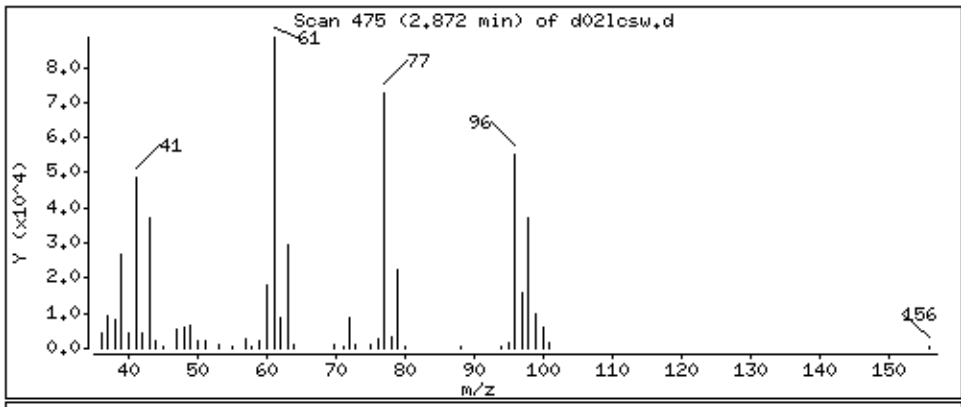
Operator: grm

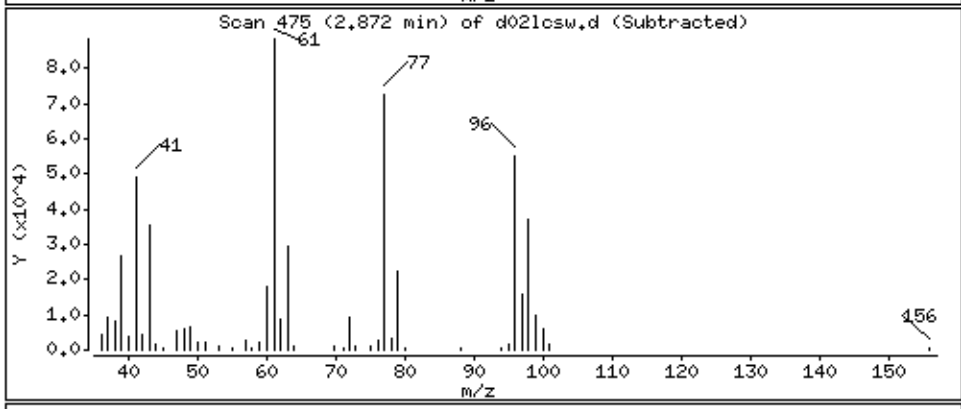
Column phase: DB-624

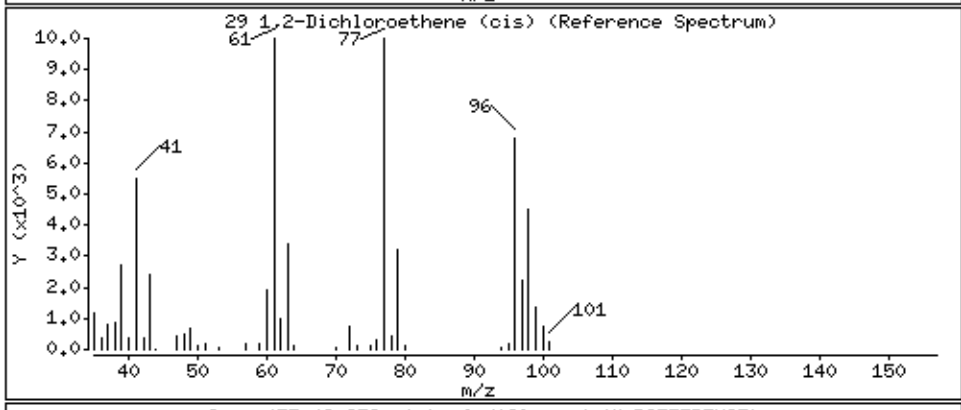
Column diameter: 0.18

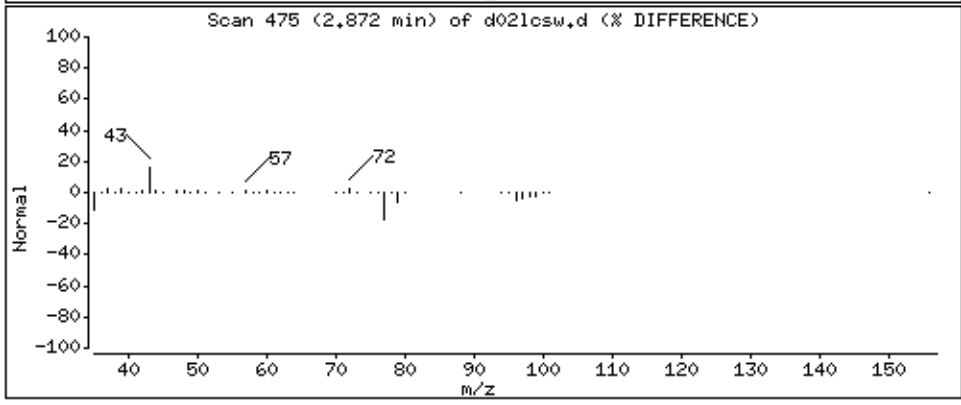
29 1,2-Dichloroethene (cis)

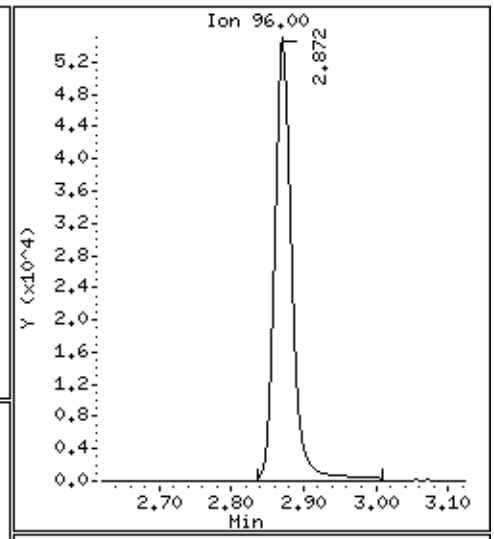
Concentration: 53.9 ppb

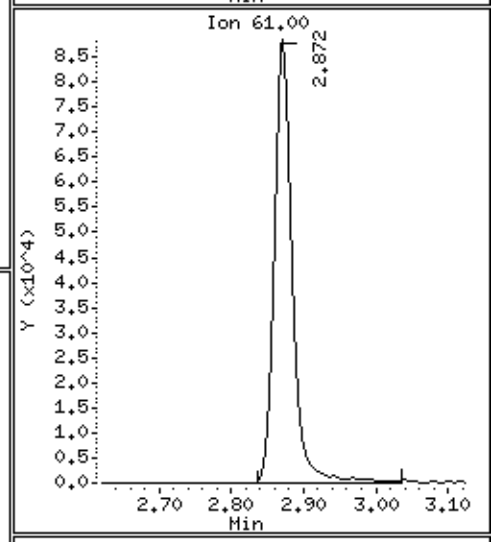


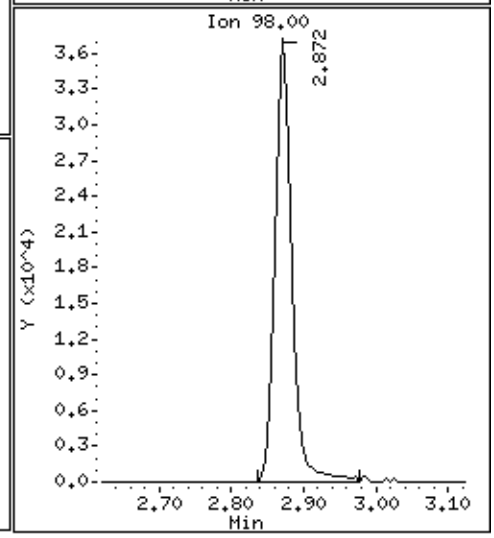












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

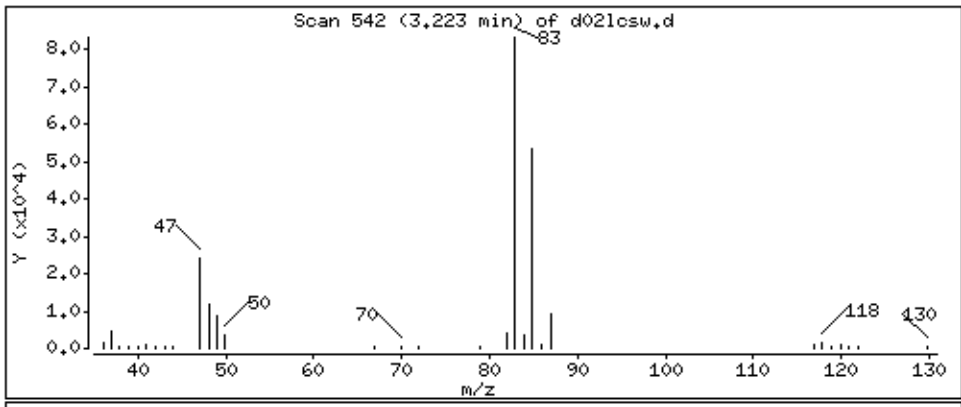
Operator: grm

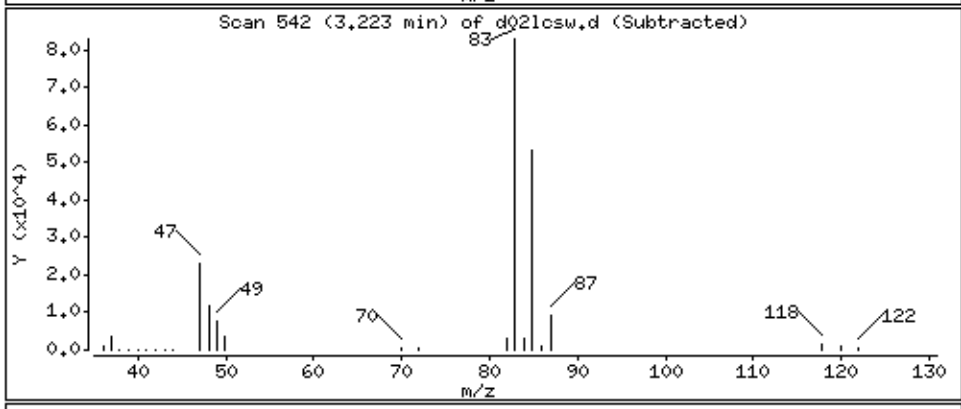
Column phase: DB-624

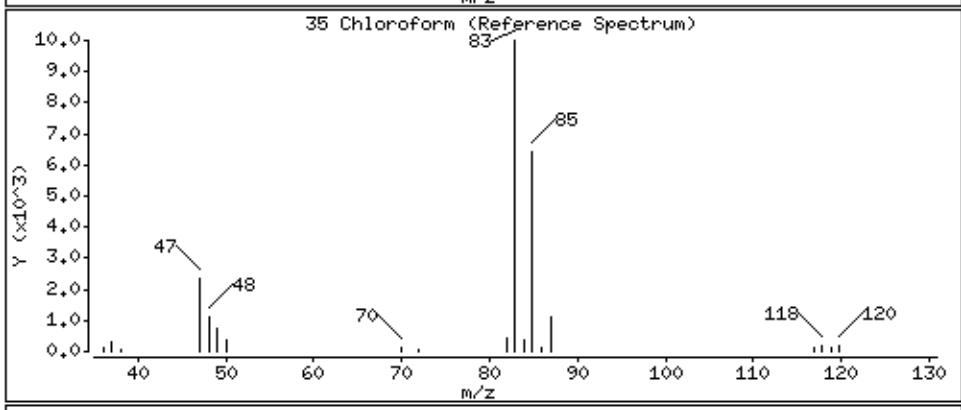
Column diameter: 0.18

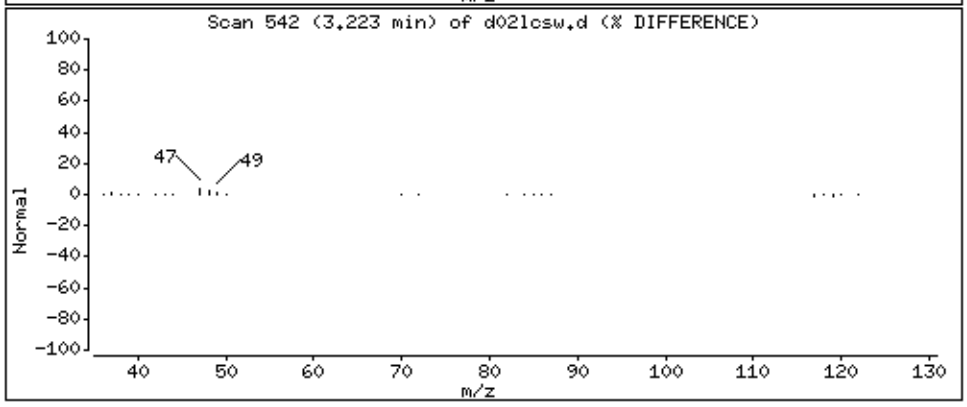
35 Chloroform

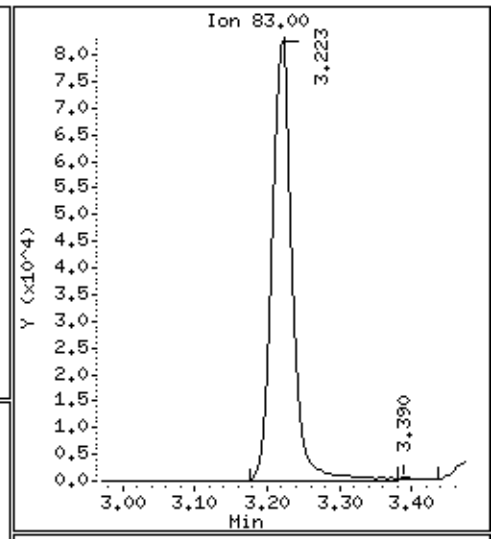
Concentration: 52.4 ppb

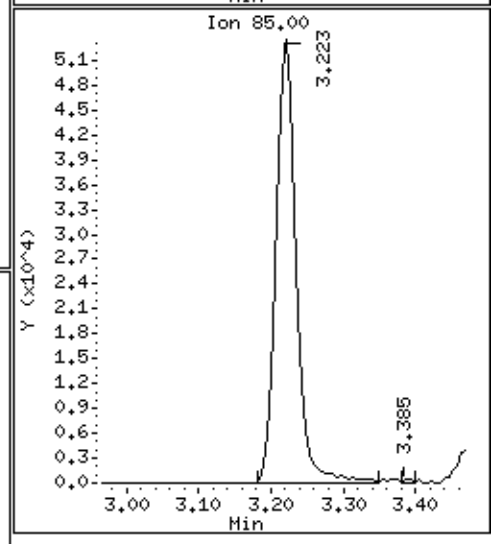












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

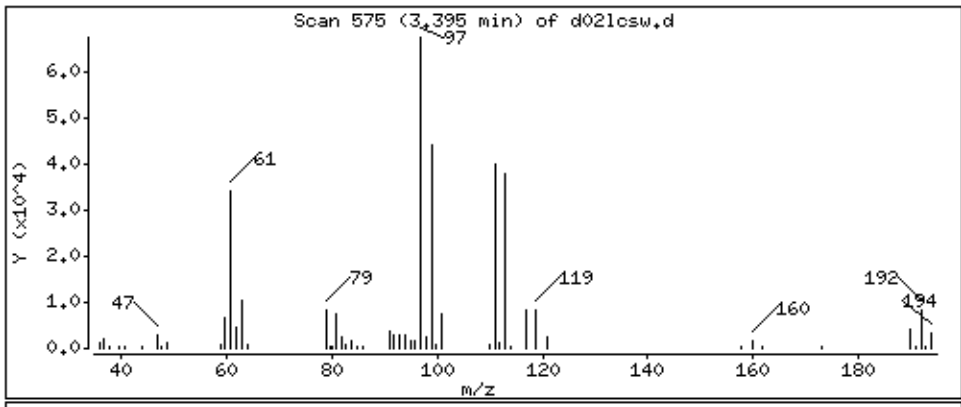
Operator: grm

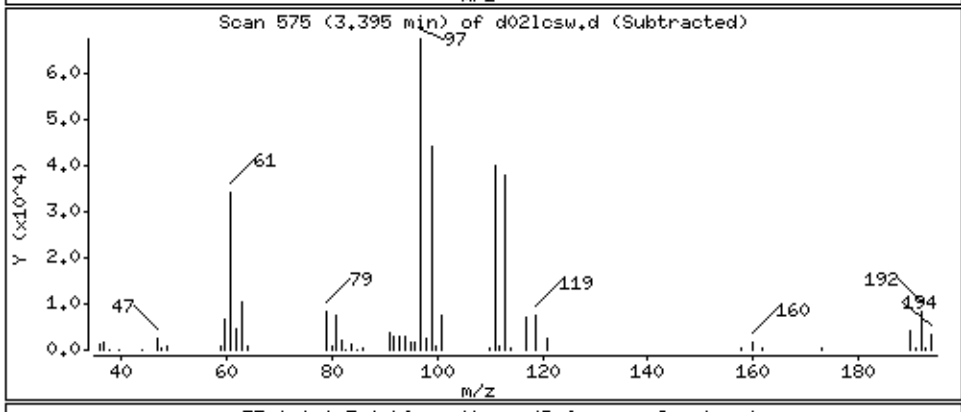
Column phase: DB-624

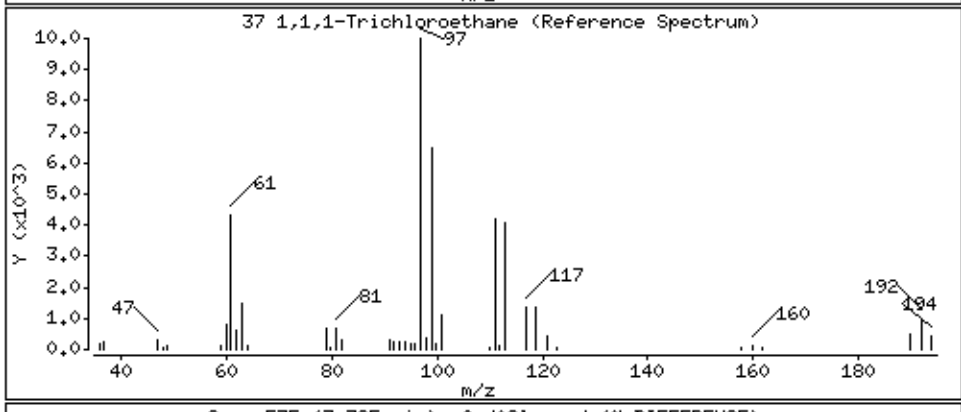
Column diameter: 0.18

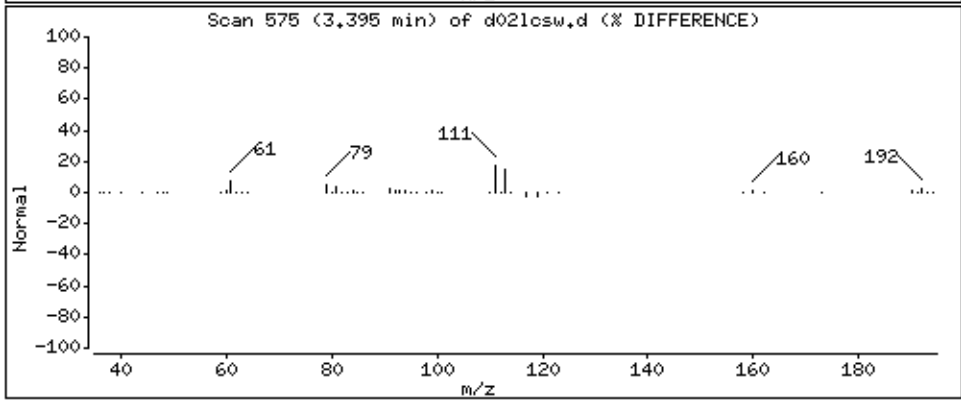
37 1,1,1-Trichloroethane

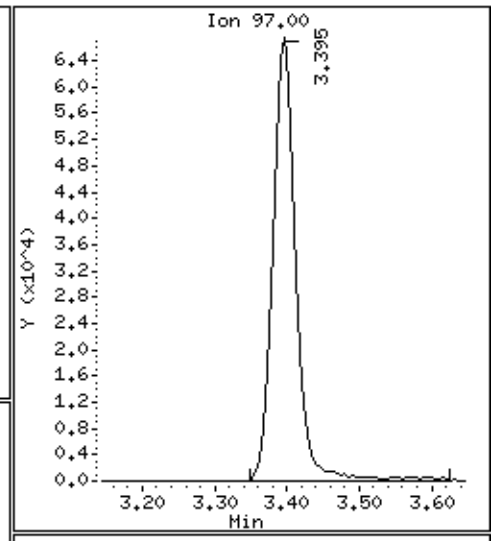
Concentration: 53.6 ppb

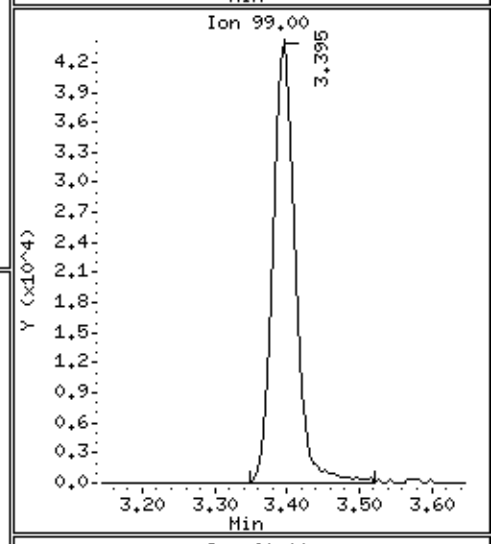


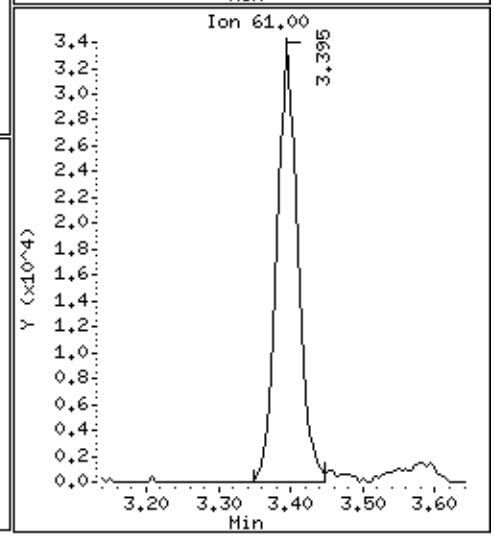












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

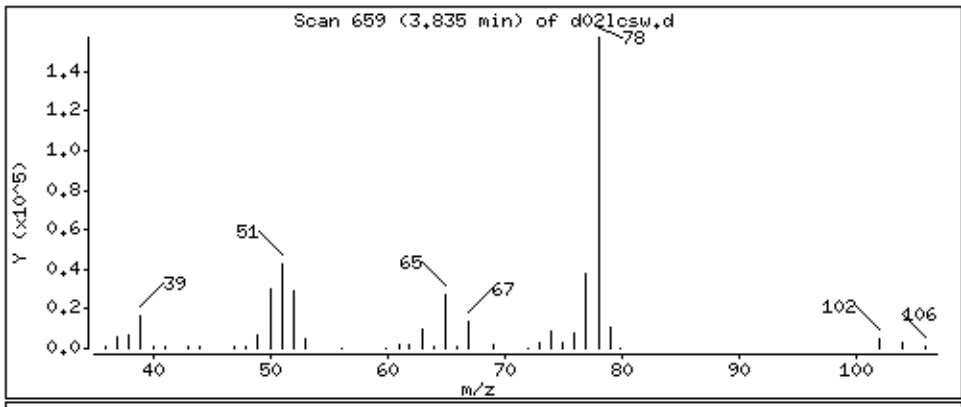
Operator: grm

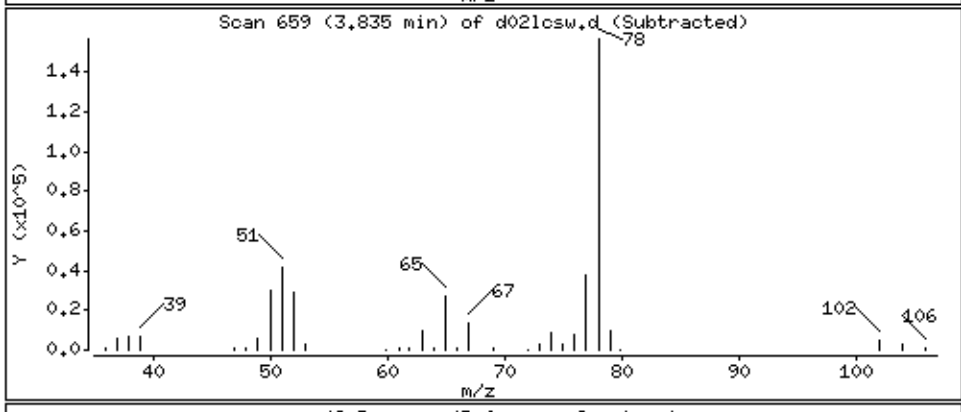
Column phase: DB-624

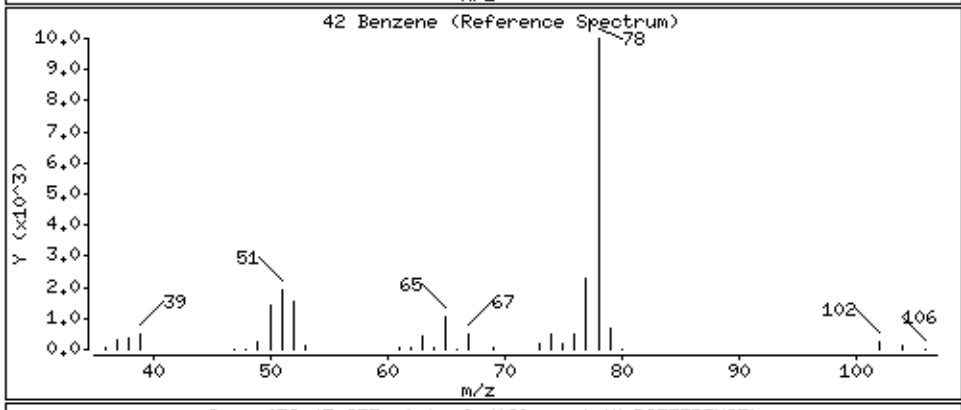
Column diameter: 0.18

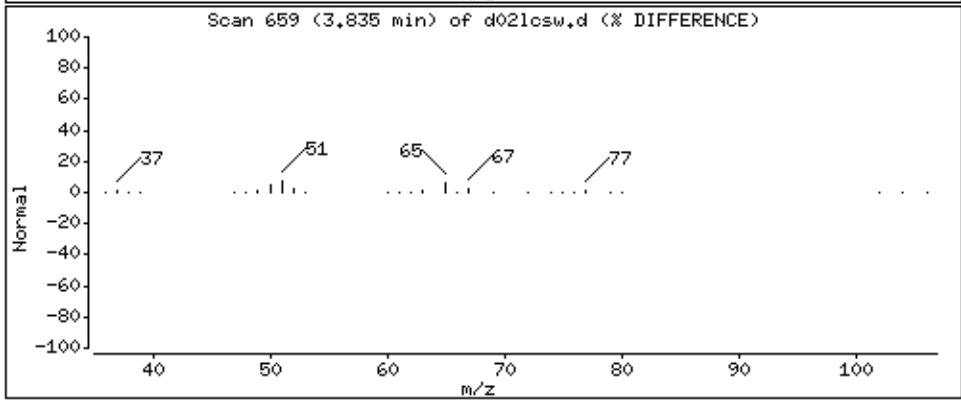
42 Benzene

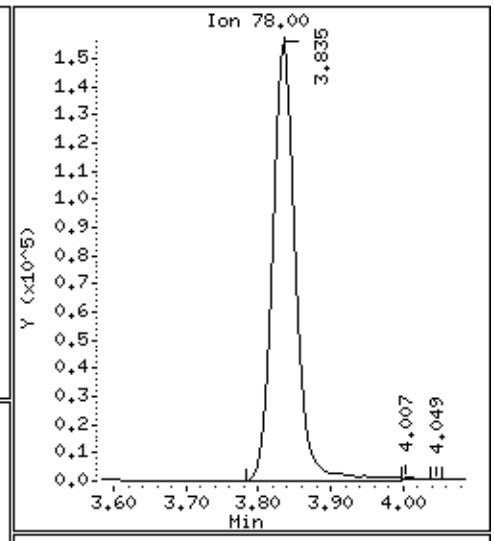
Concentration: 54.0 ppb

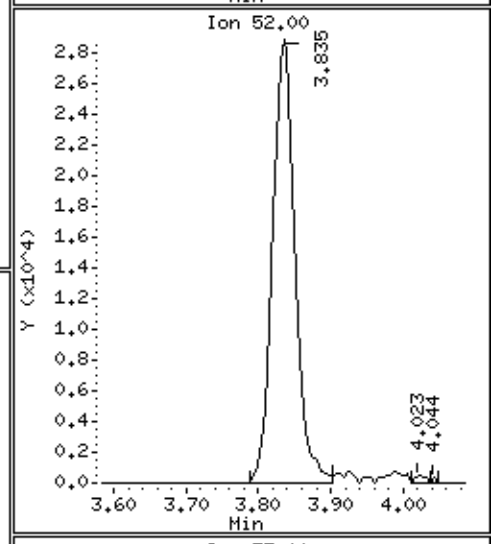


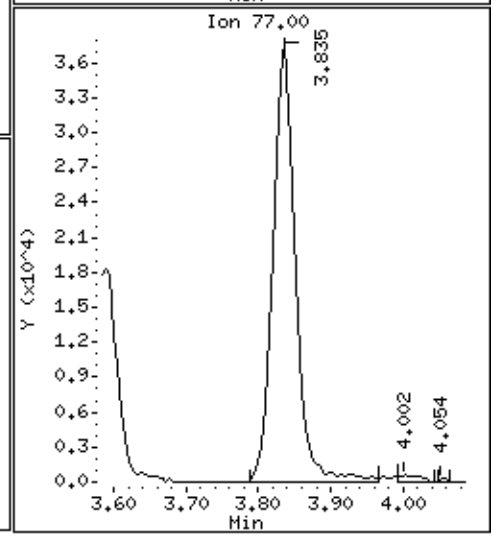












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

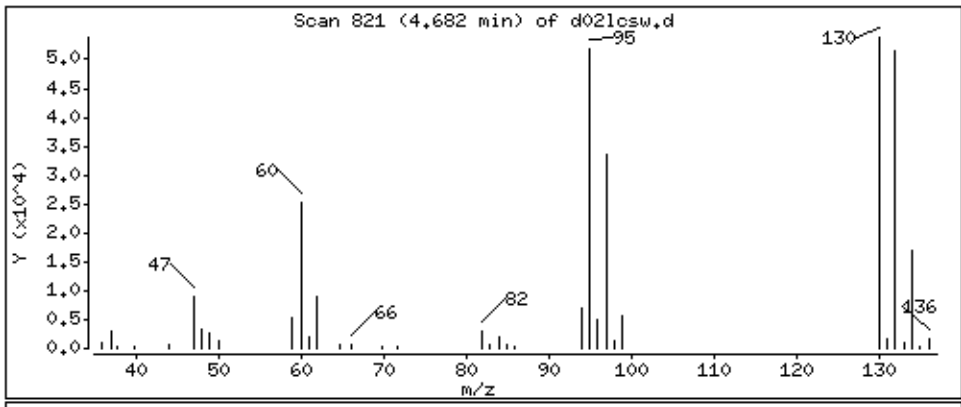
Operator: grm

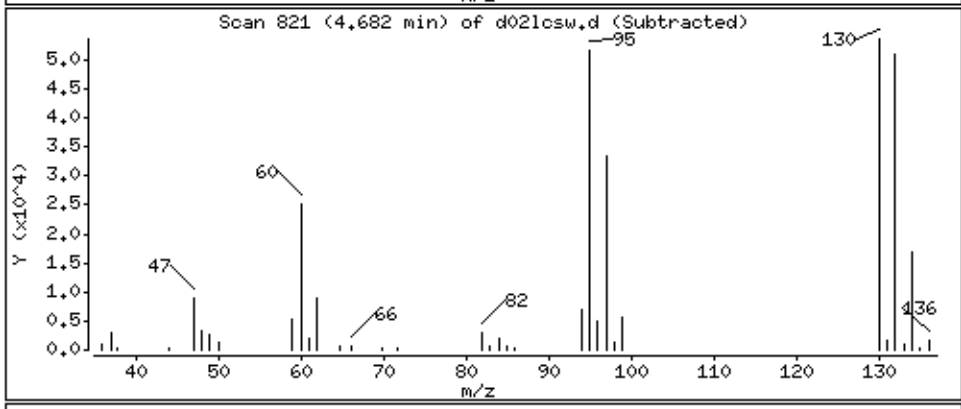
Column phase: DB-624

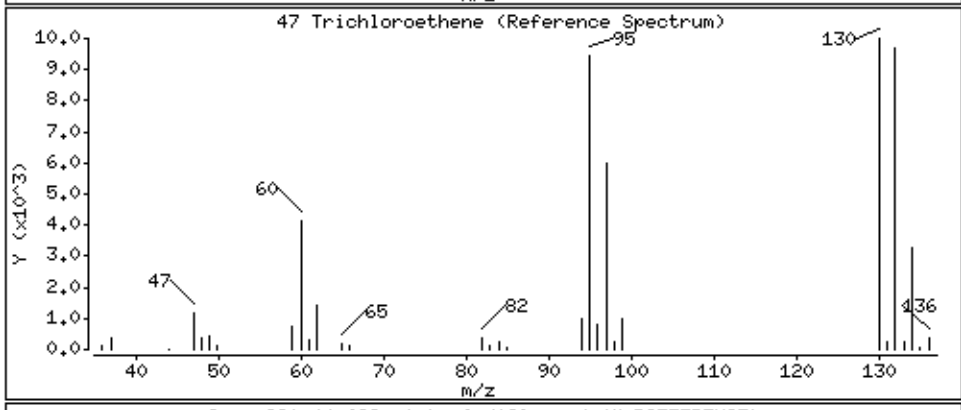
Column diameter: 0.18

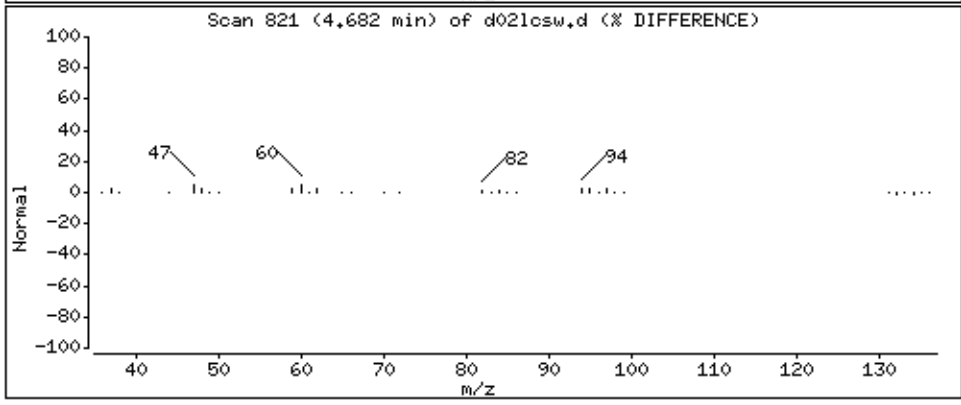
47 Trichloroethene

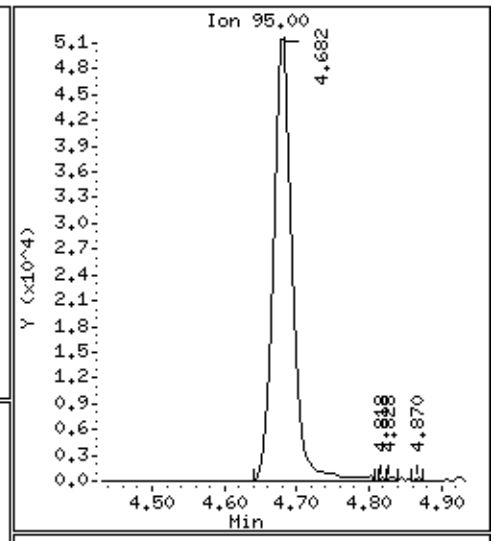
Concentration: 56.2 ppb

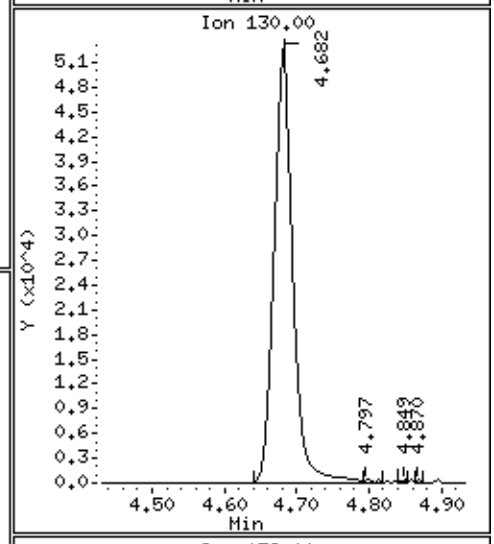


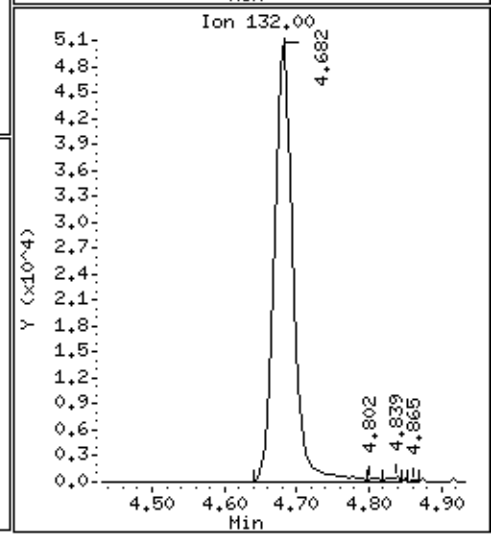












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

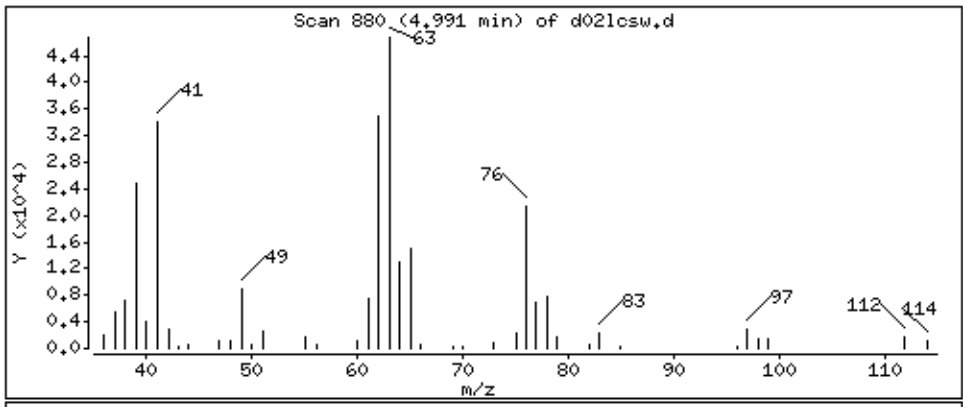
Operator: grm

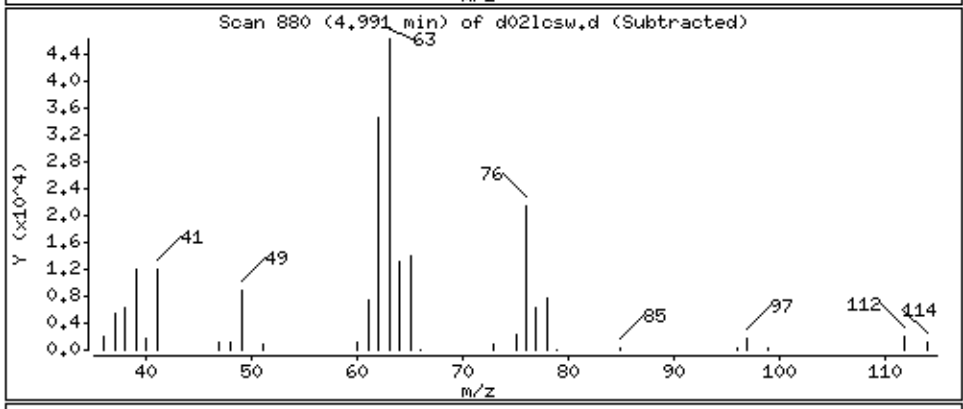
Column phase: DB-624

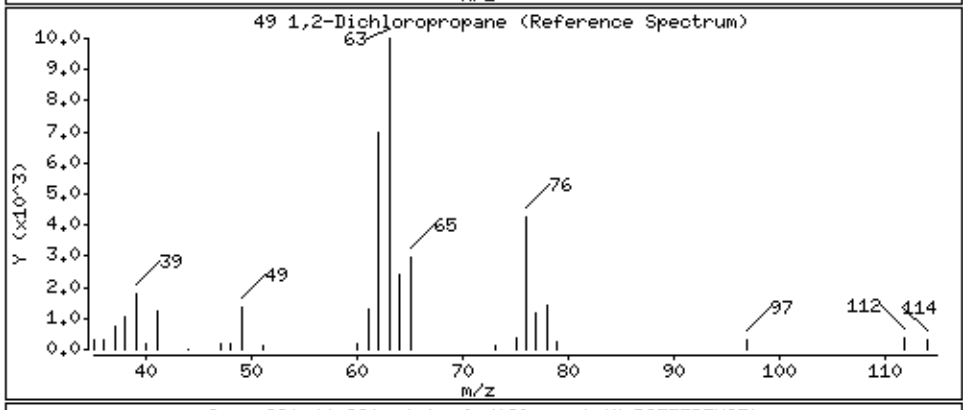
Column diameter: 0.18

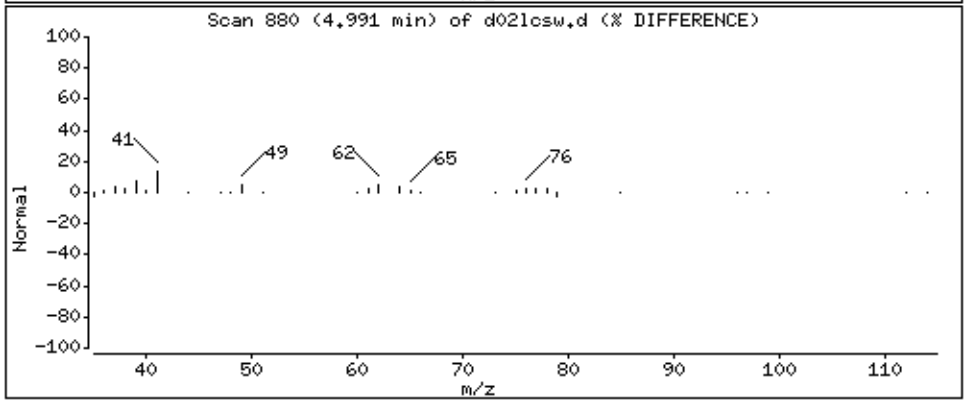
49 1,2-Dichloropropane

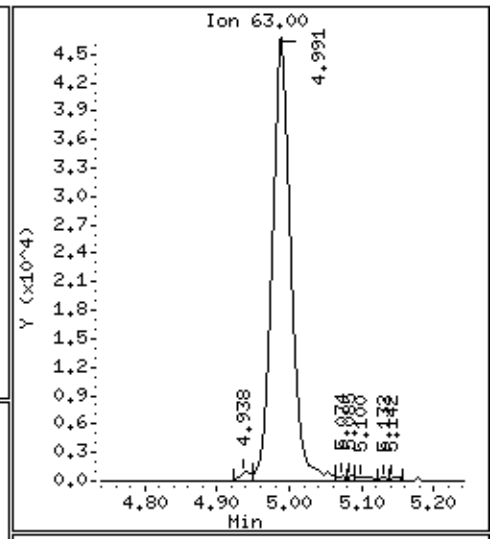
Concentration: 51.4 ppb

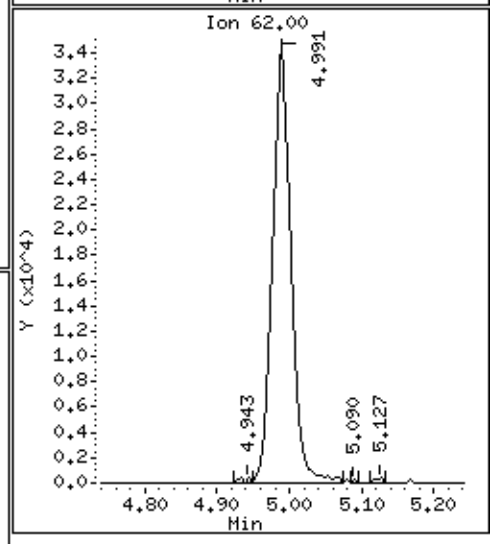












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

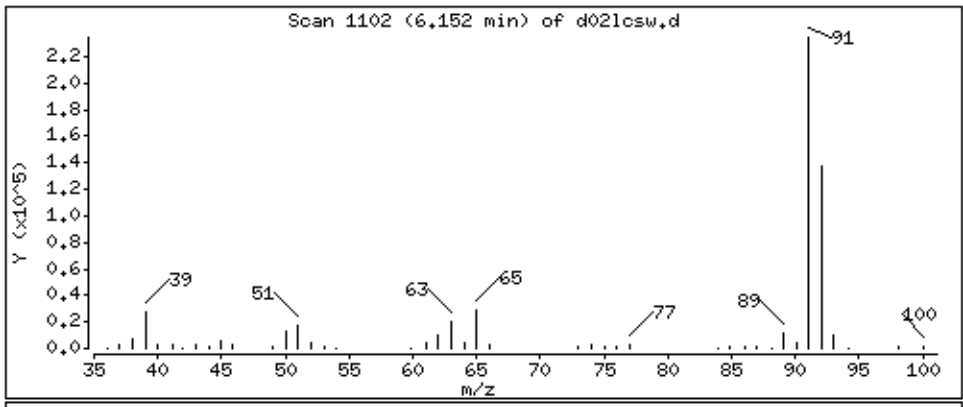
Operator: grm

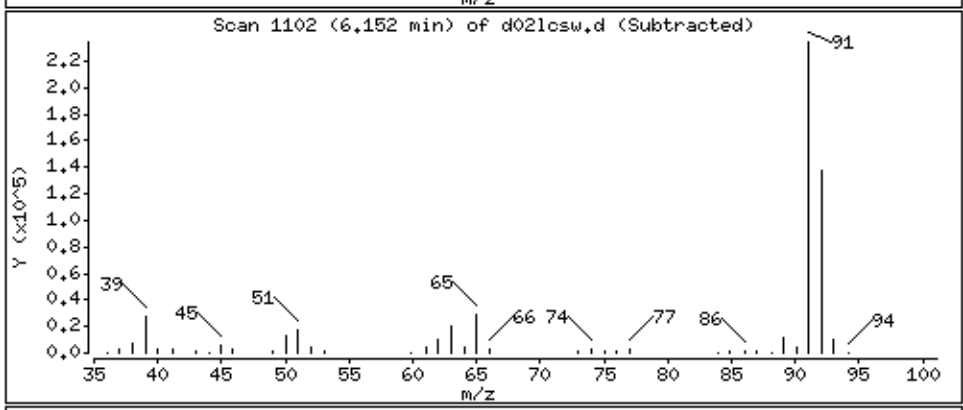
Column phase: DB-624

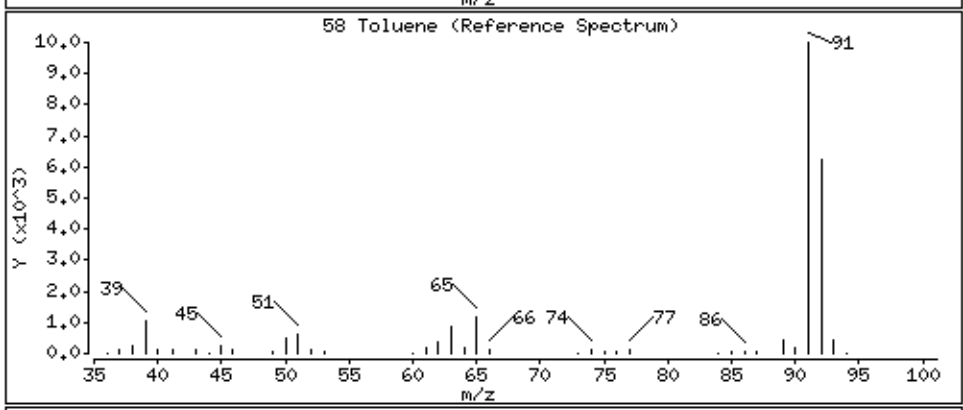
Column diameter: 0.18

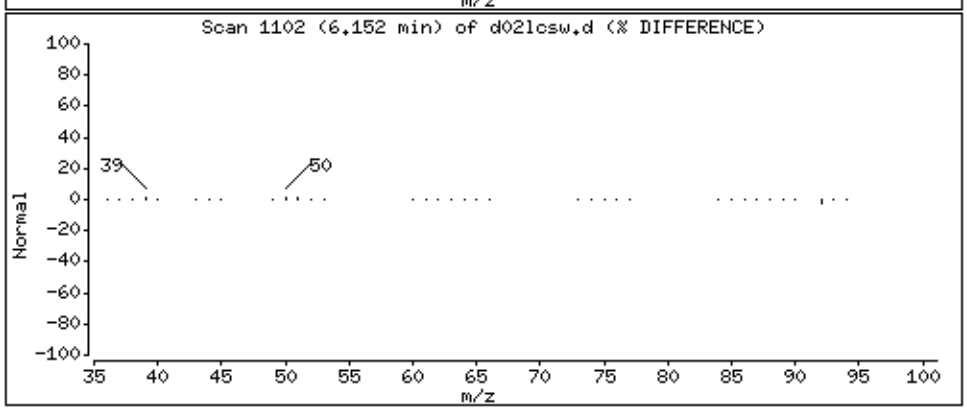
58 Toluene

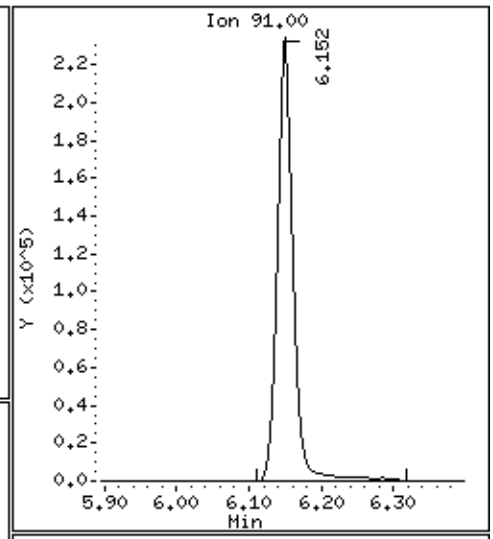
Concentration: 52.2 ppb

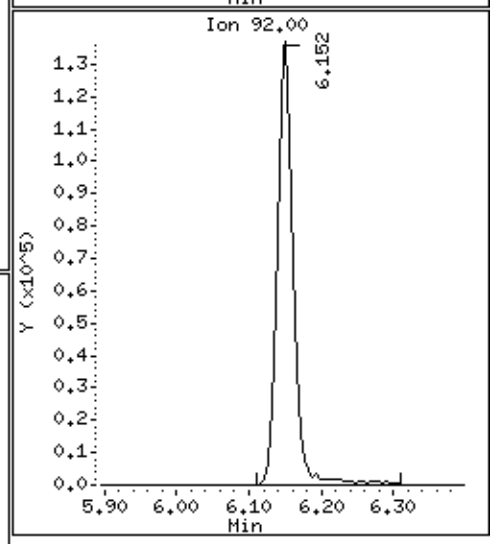












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

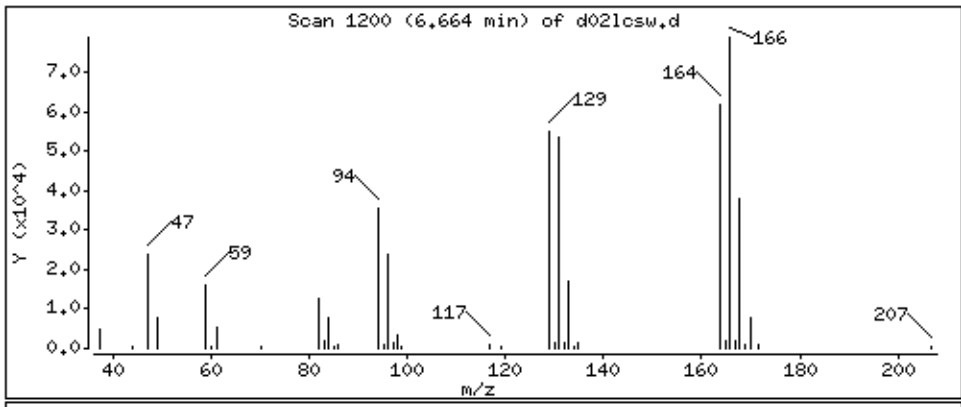
Operator: grm

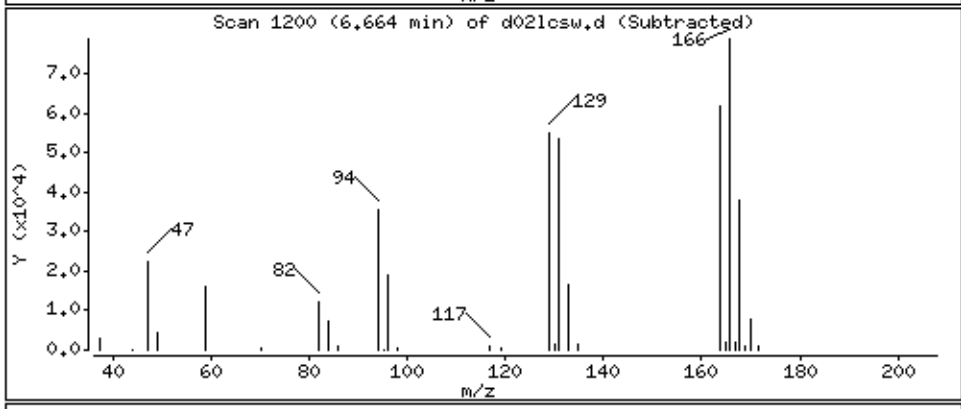
Column phase: DB-624

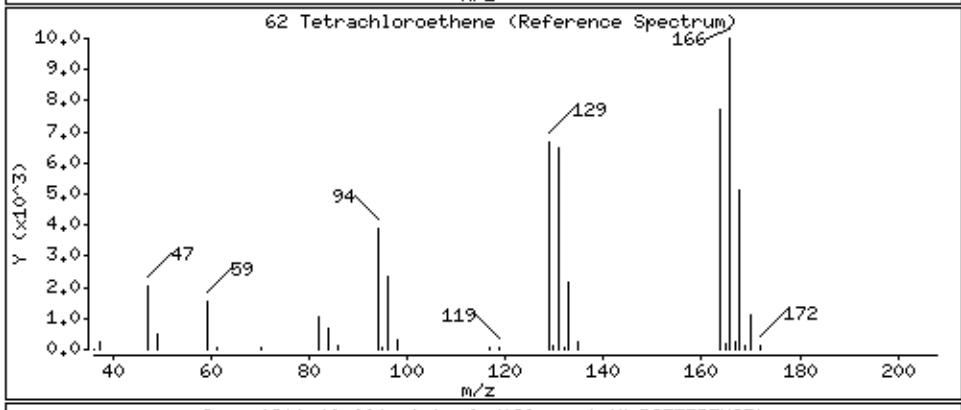
Column diameter: 0.18

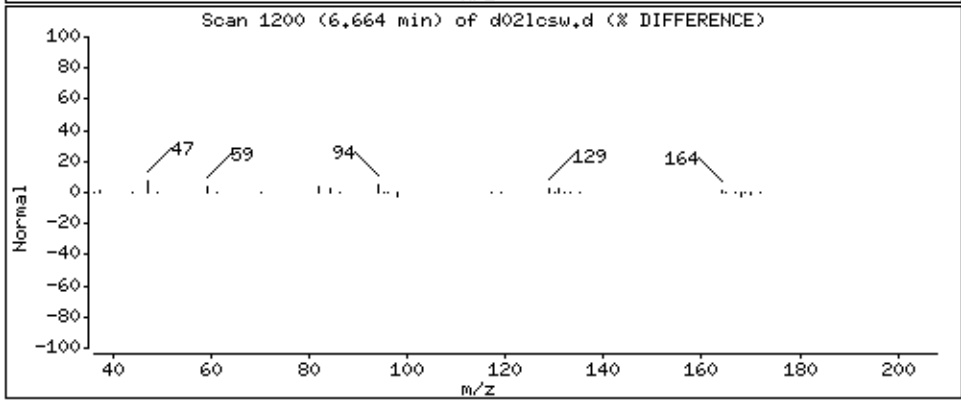
62 Tetrachloroethene

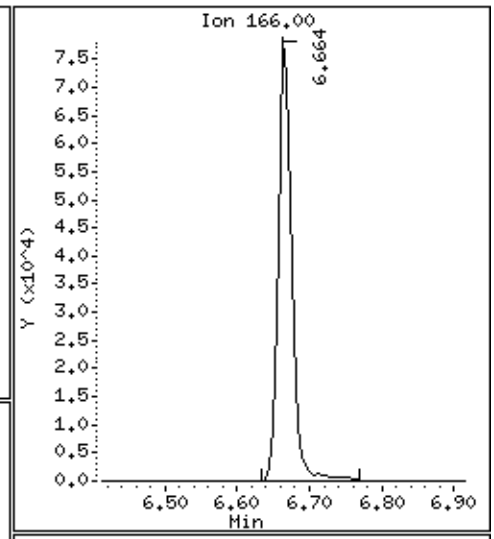
Concentration: 55.7 ppb

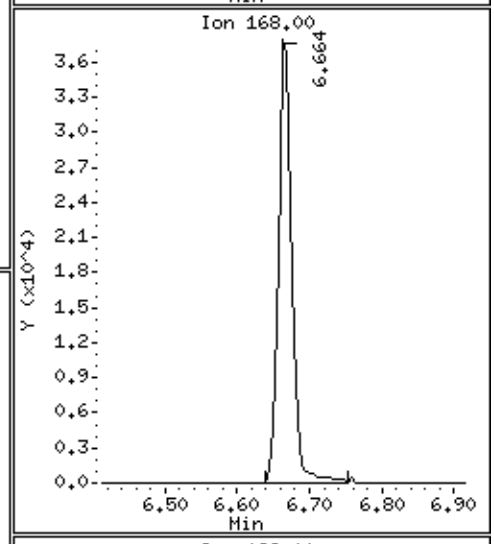


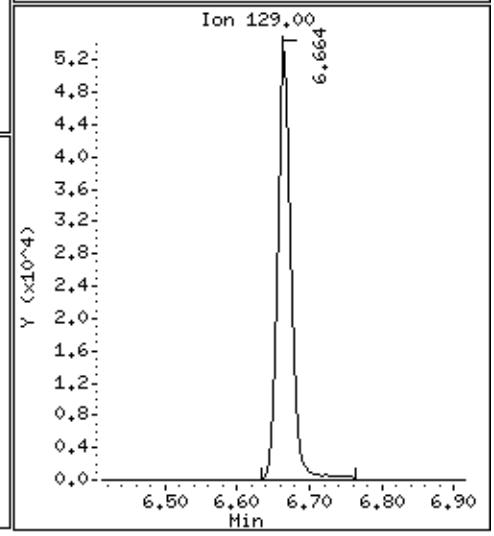












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

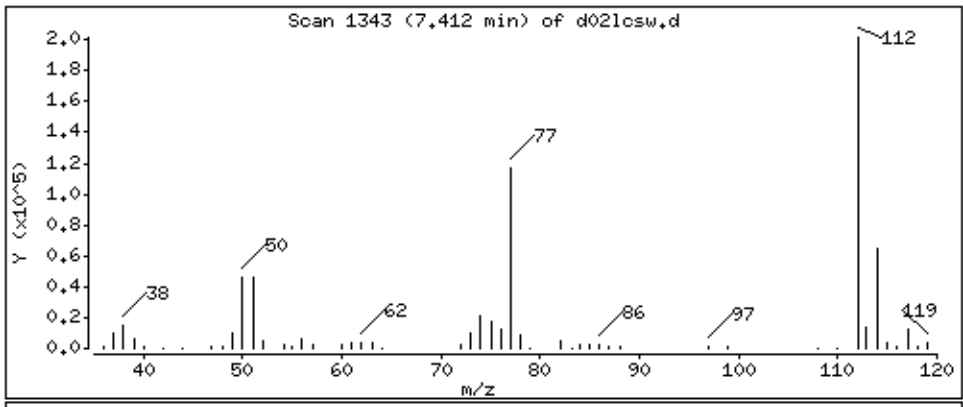
Operator: grm

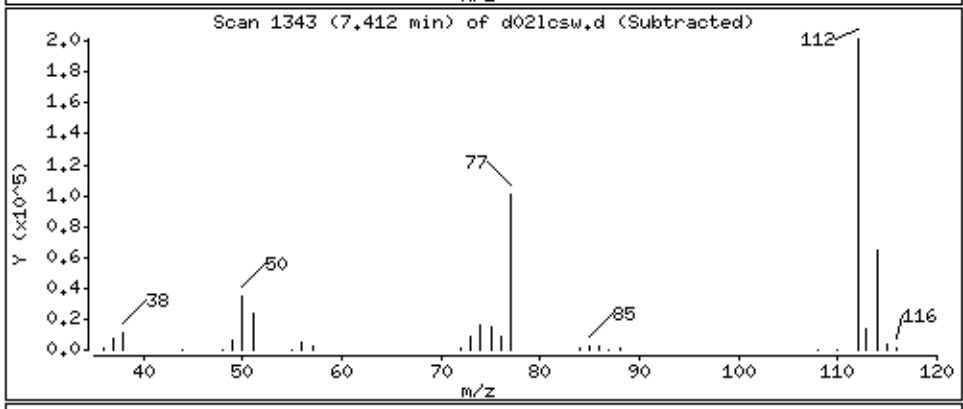
Column phase: DB-624

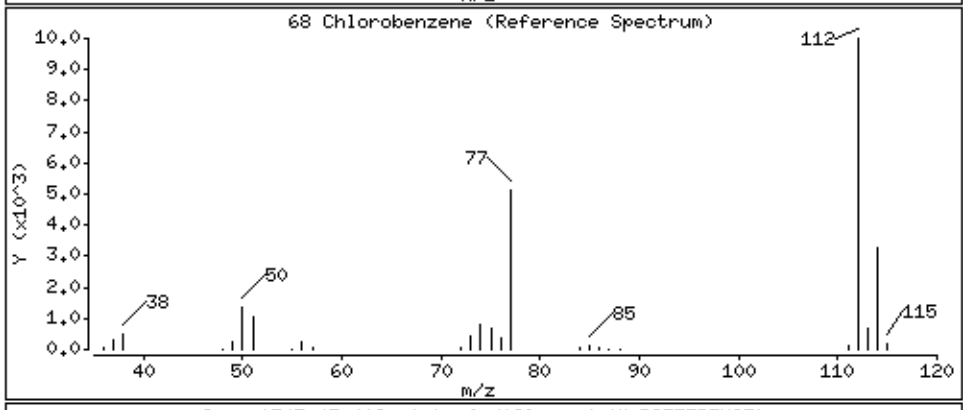
Column diameter: 0.18

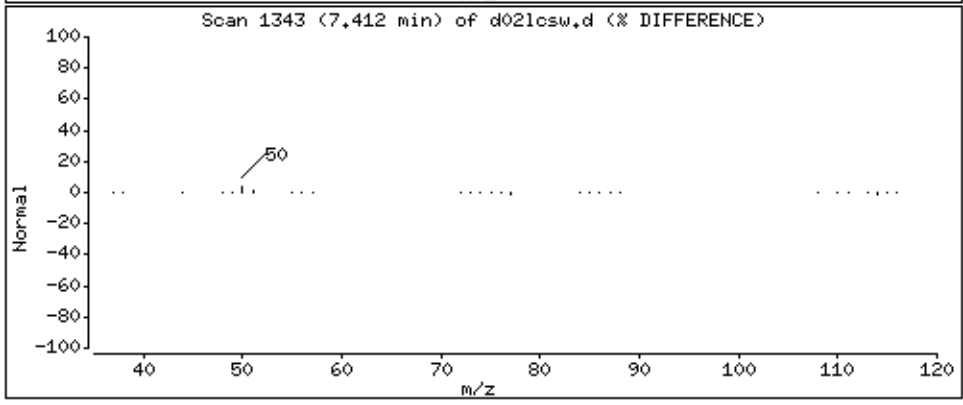
68 Chlorobenzene

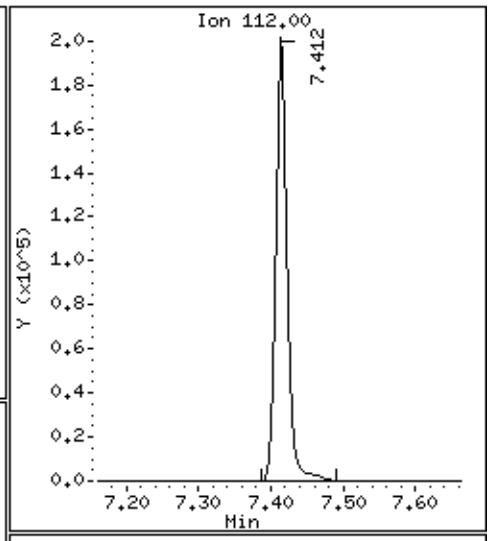
Concentration: 51.5 ppb

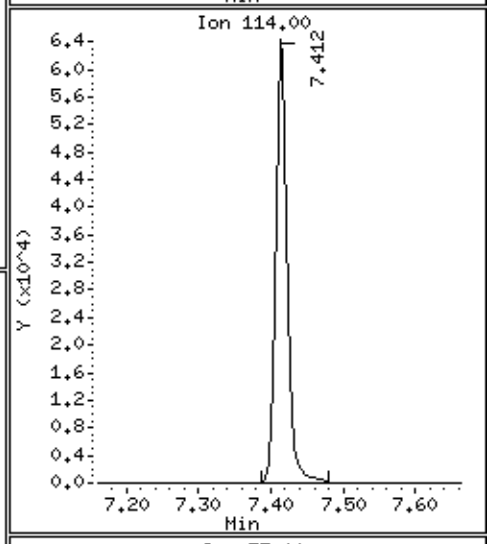


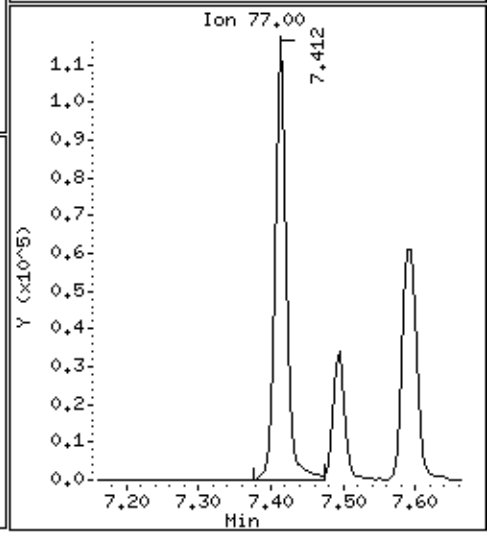












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

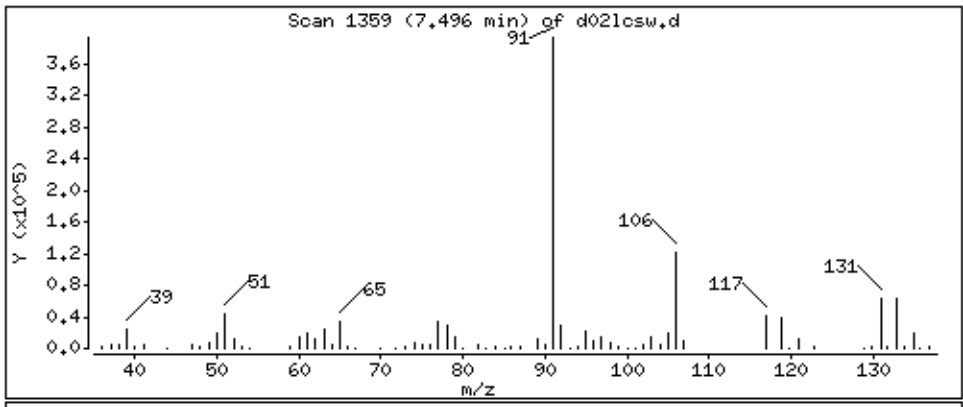
Operator: grm

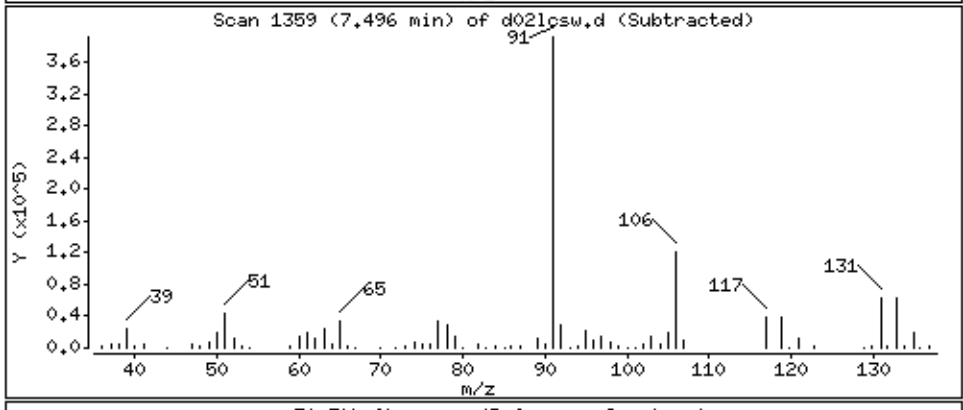
Column phase: DB-624

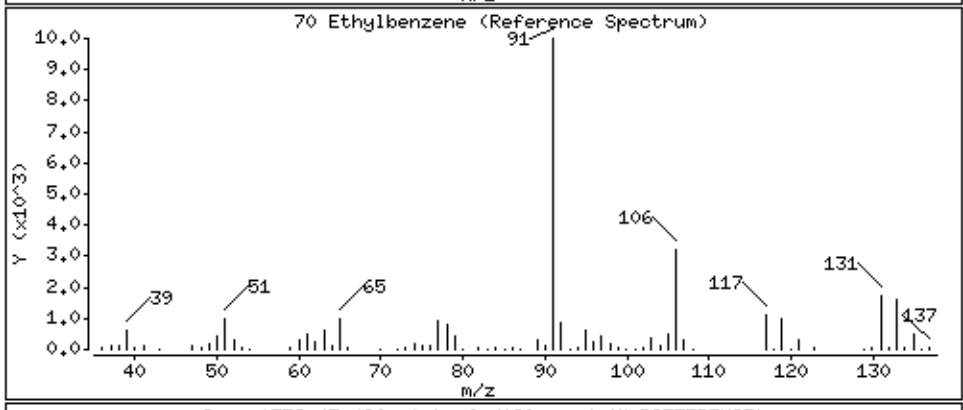
Column diameter: 0.18

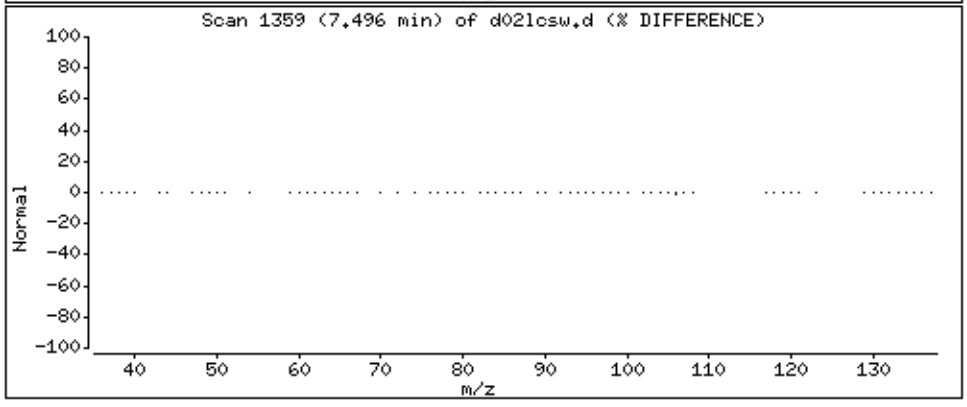
70 Ethylbenzene

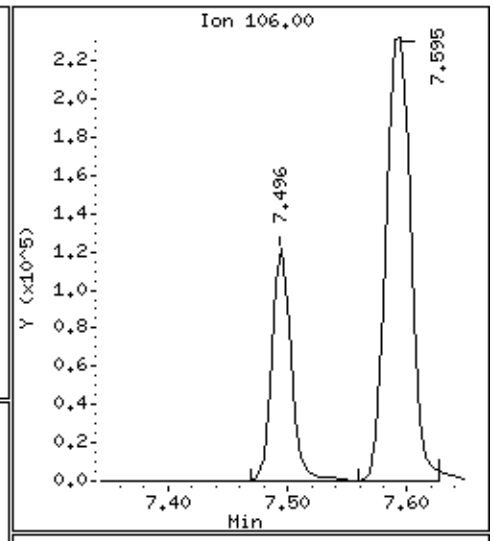
Concentration: 52.4 ppb

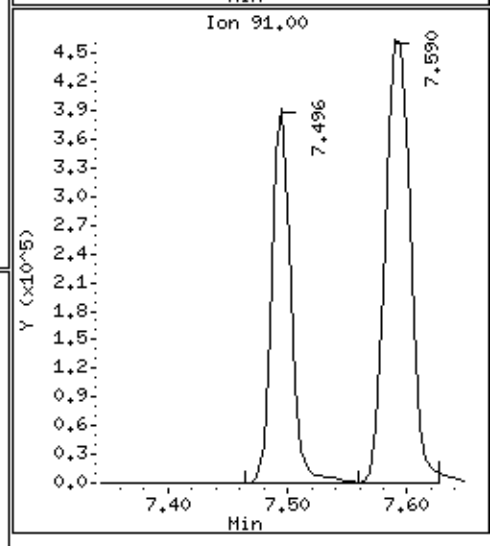












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

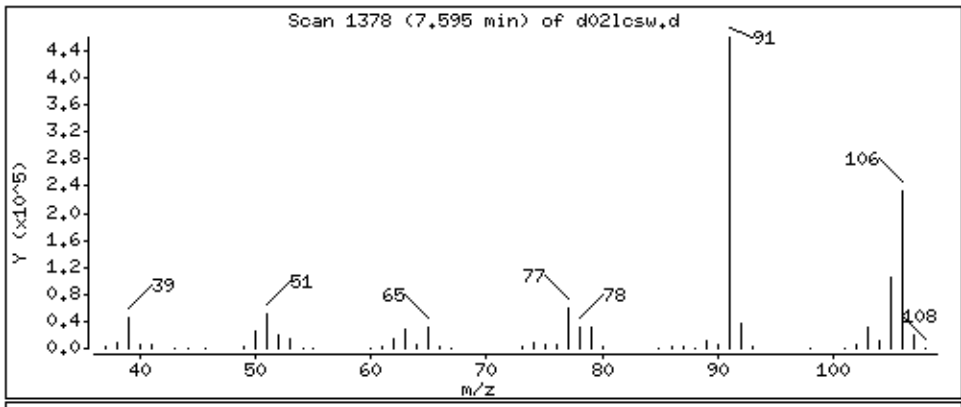
Operator: grm

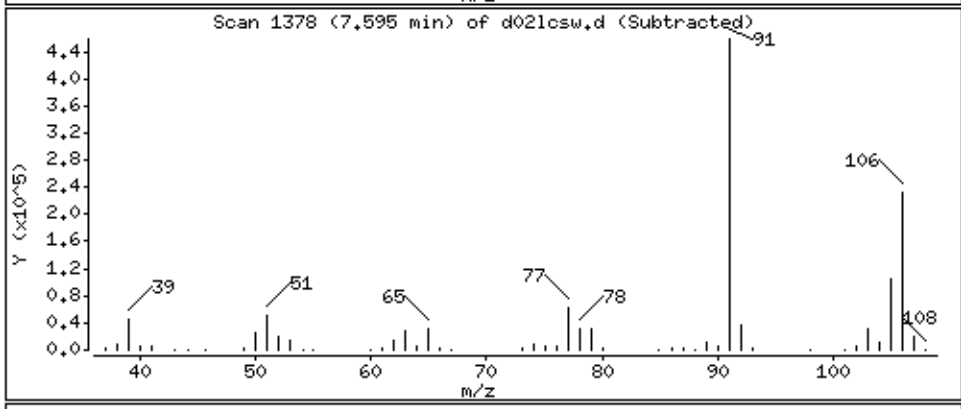
Column phase: DB-624

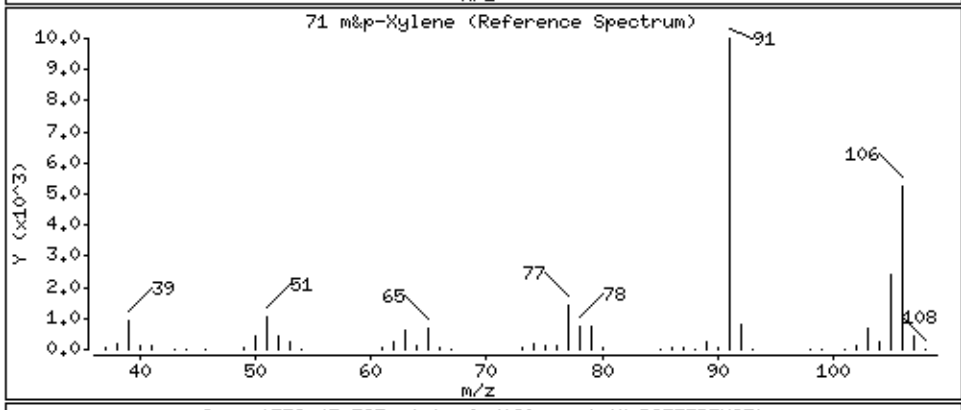
Column diameter: 0.18

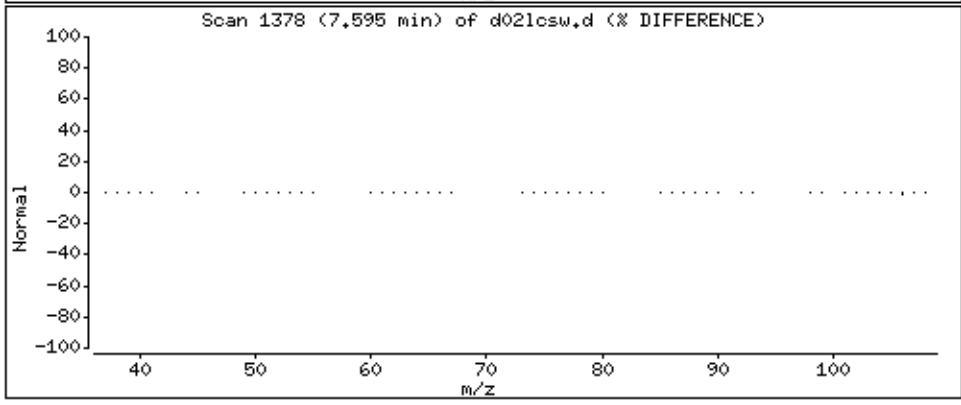
71 m&p-Xylene

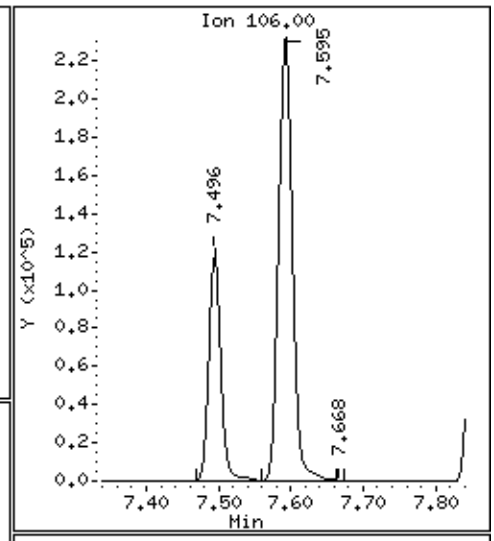
Concentration: 105 ppb

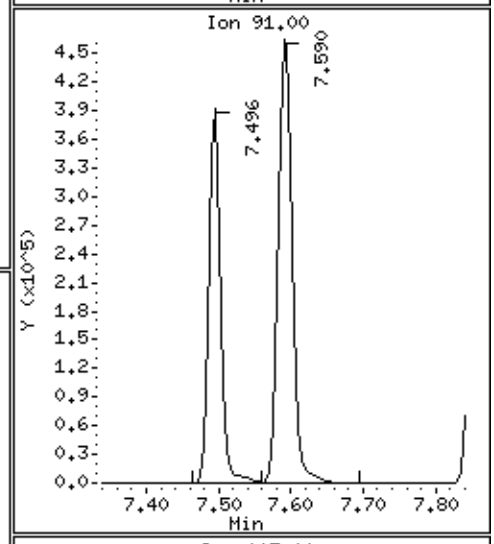


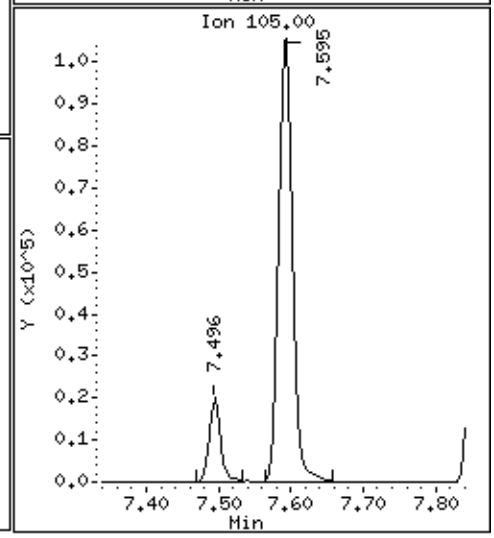












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

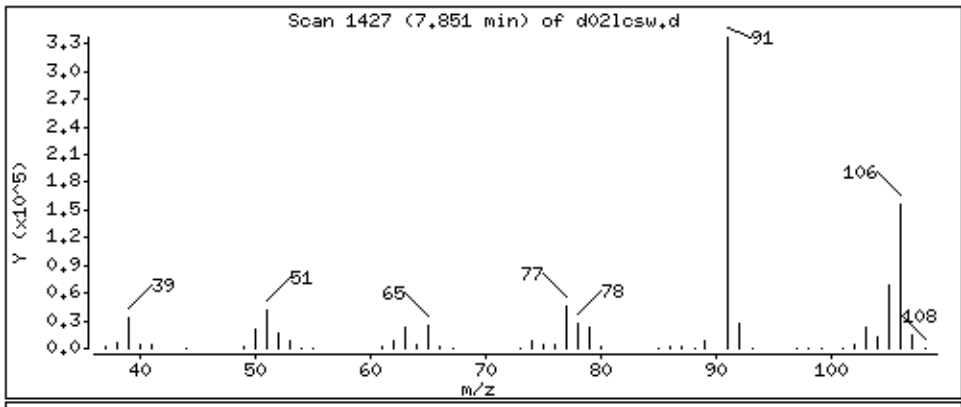
Operator: grm

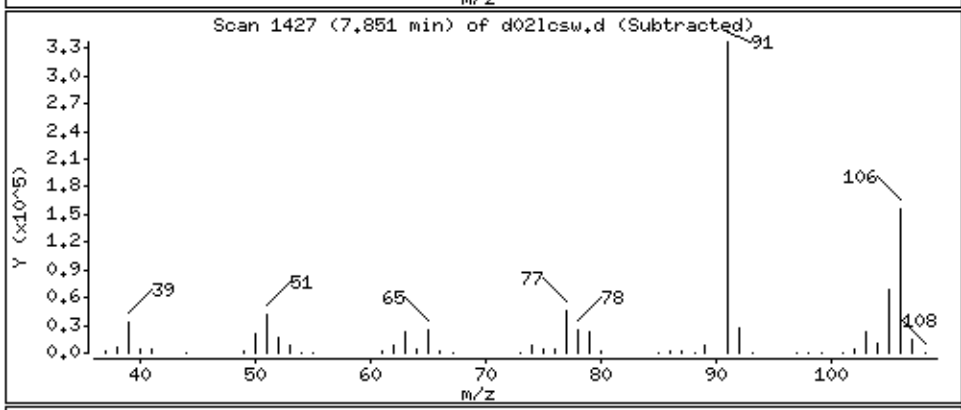
Column phase: DB-624

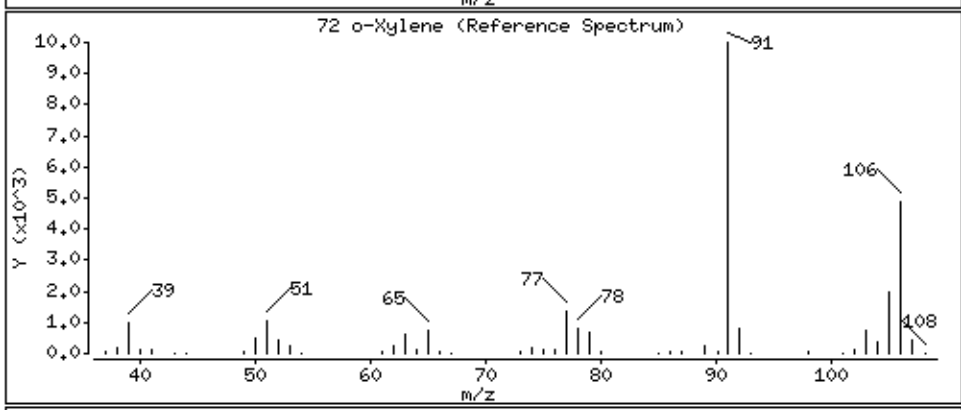
Column diameter: 0.18

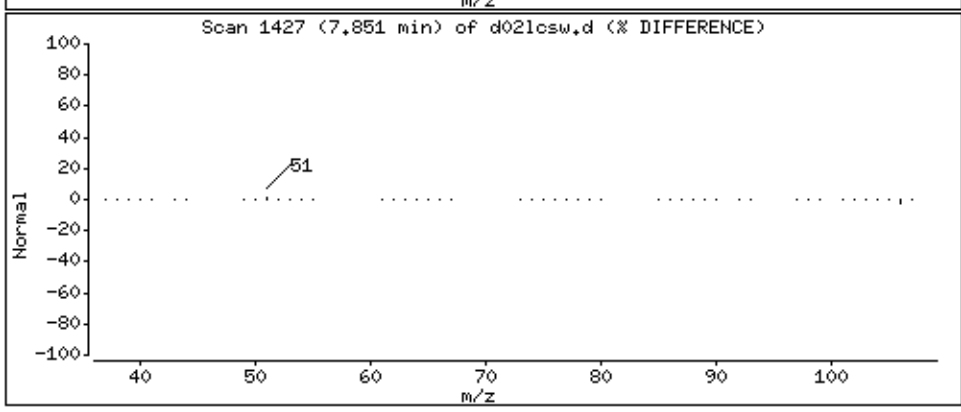
72 o-Xylene

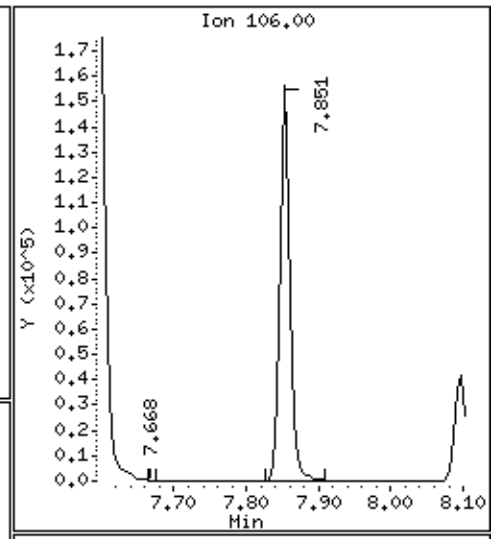
Concentration: 53.3 ppb

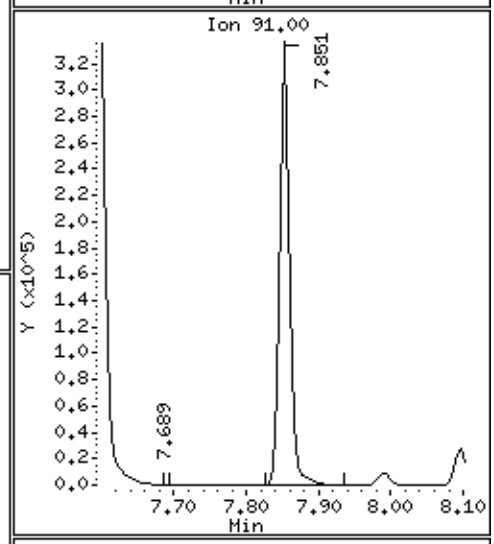


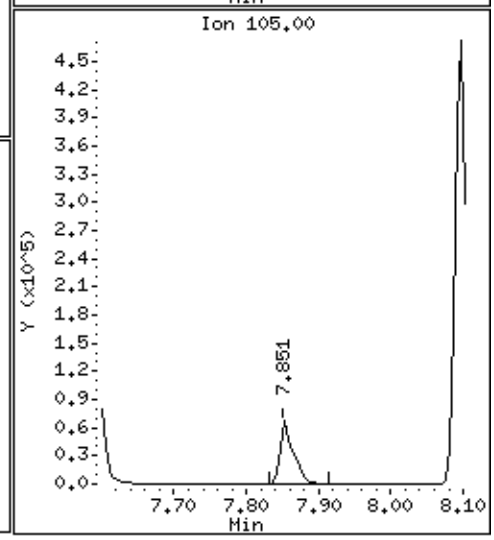












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

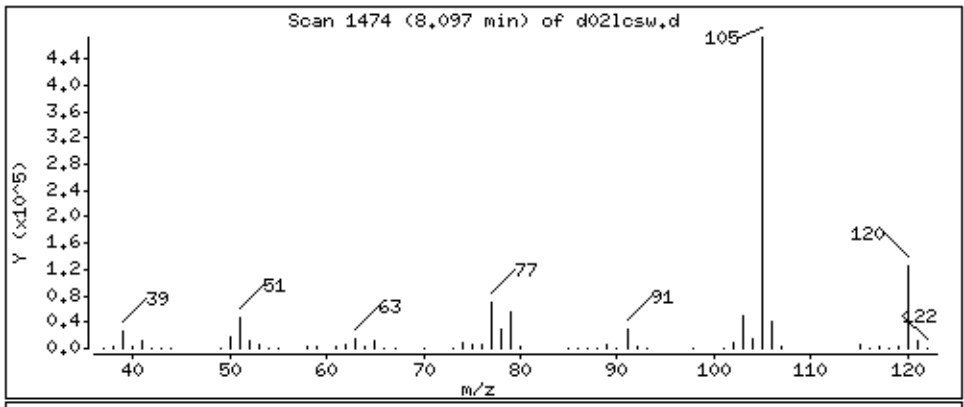
Client ID: LCSw,117024:5 Instrument: 50mv1b.i

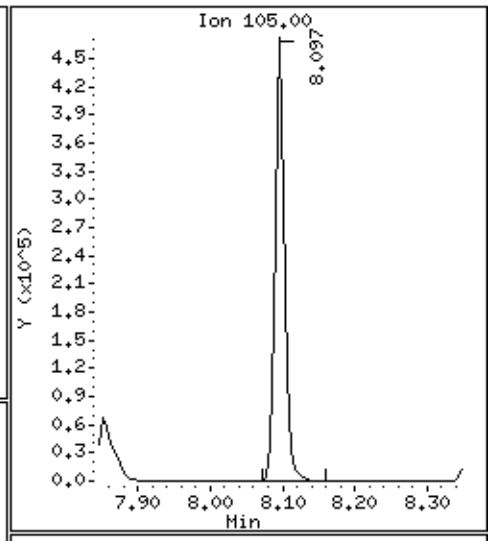
Sample Info: 1500385,117024:5

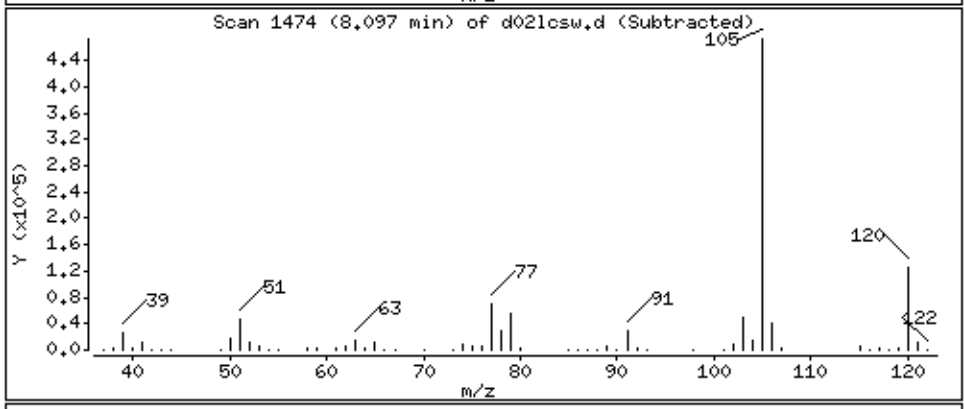
Purge Volume: 5.0 Operator: grm

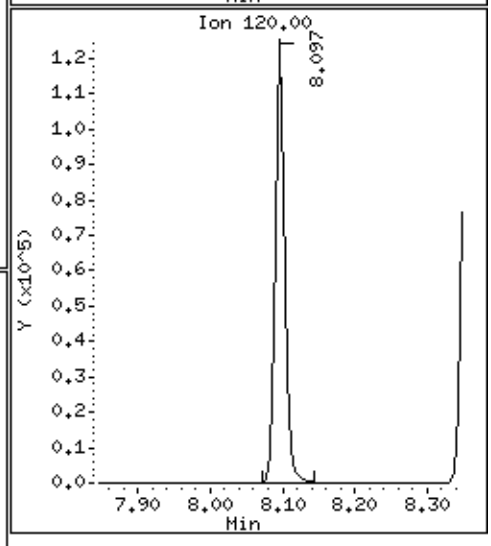
Column phase: DB-624 Column diameter: 0.18

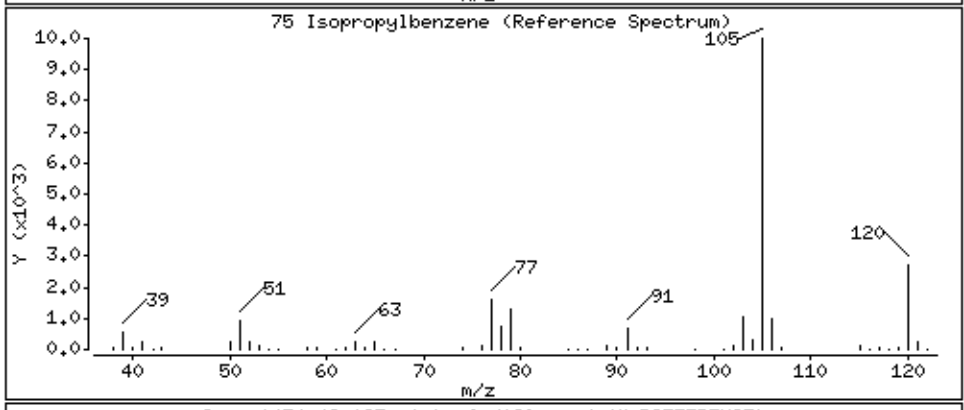
75 Isopropylbenzene Concentration: 53.8 ppb

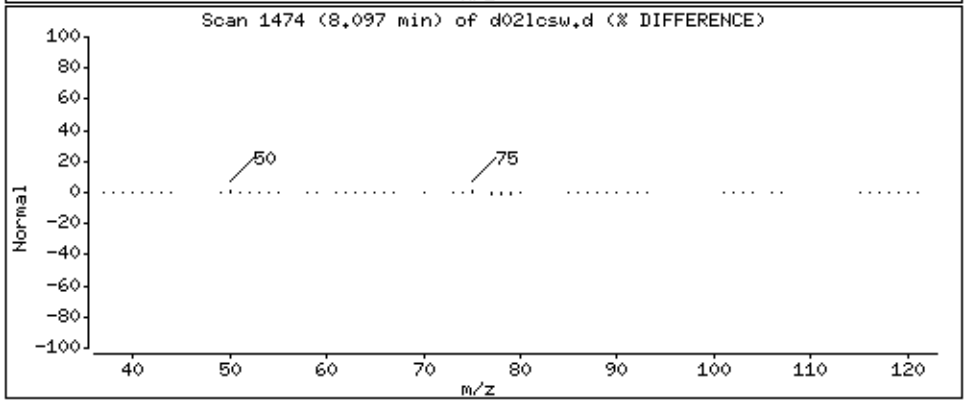












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

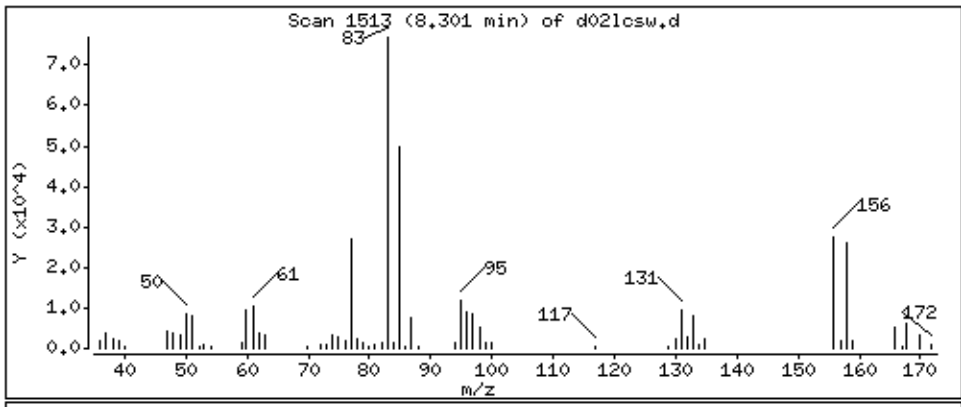
Operator: grm

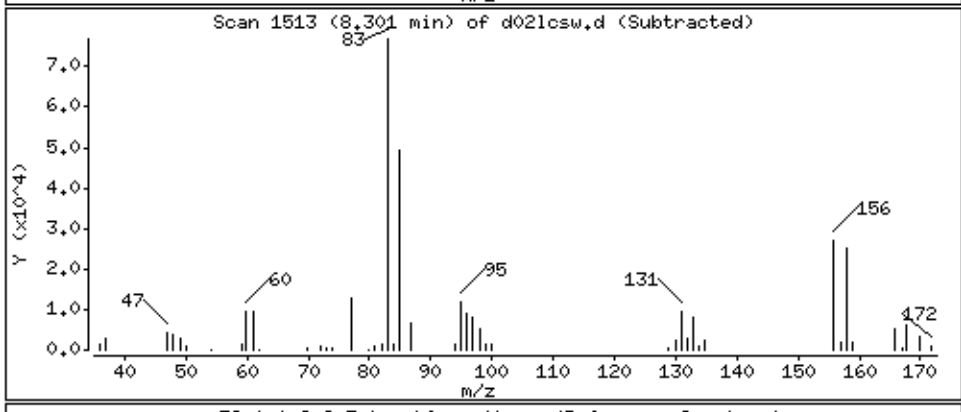
Column phase: DB-624

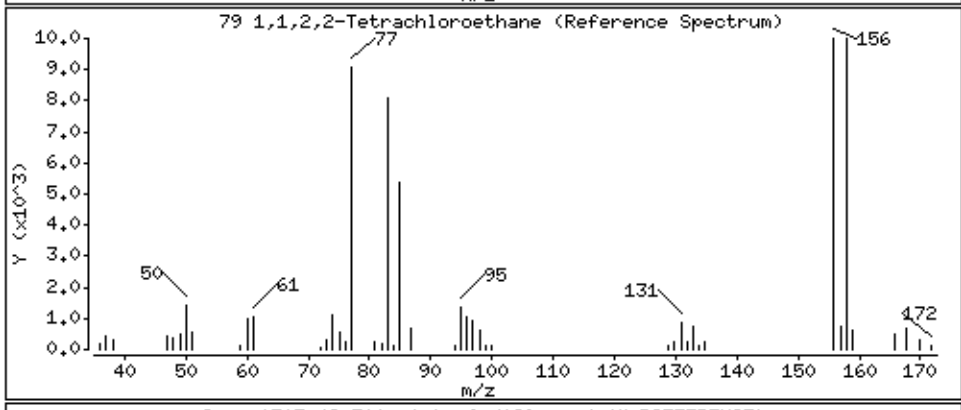
Column diameter: 0.18

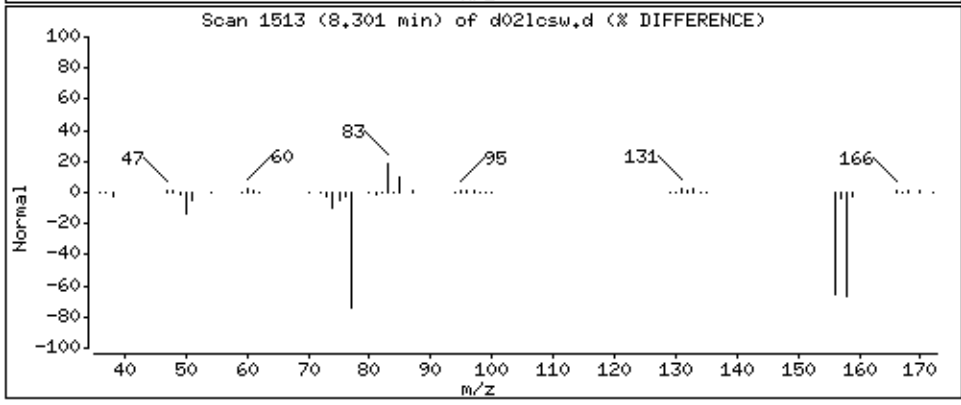
79 1,1,2,2-Tetrachloroethane

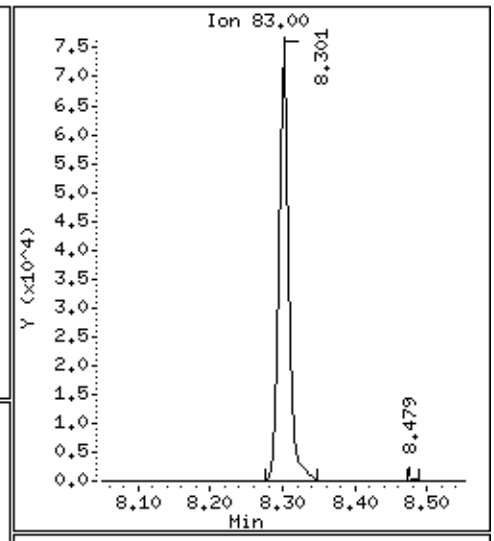
Concentration: 51.6 ppb

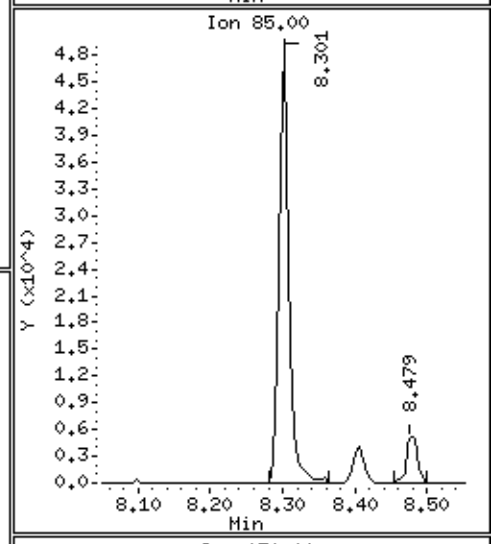


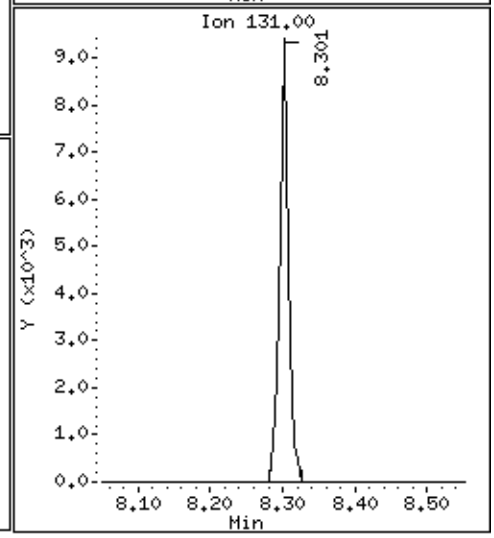












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1500385,117024:5

Purge Volume: 5.0

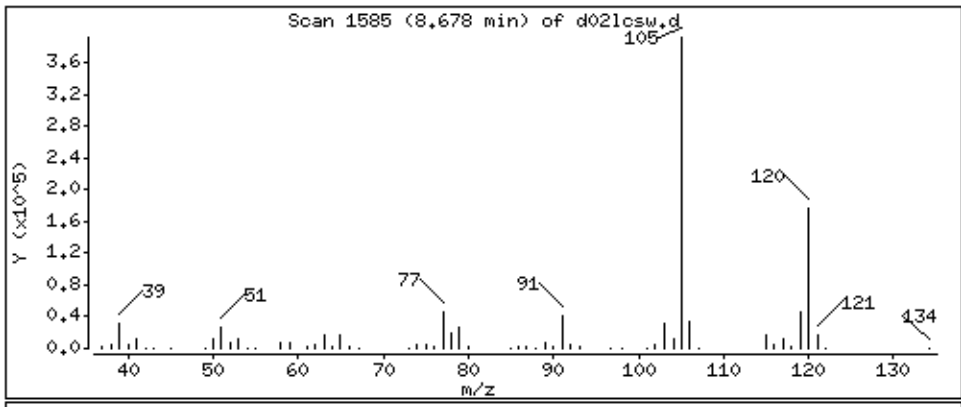
Operator: grm

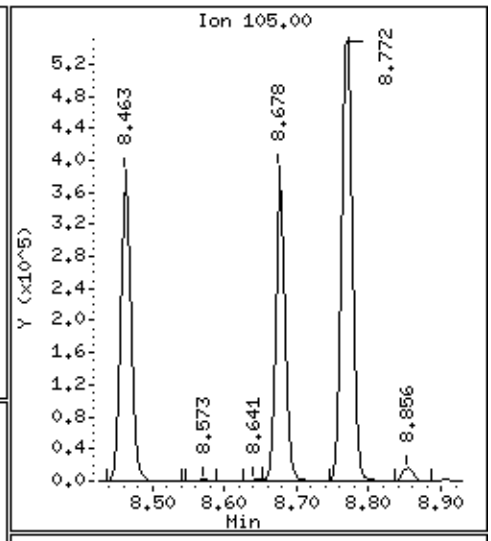
Column phase: DB-624

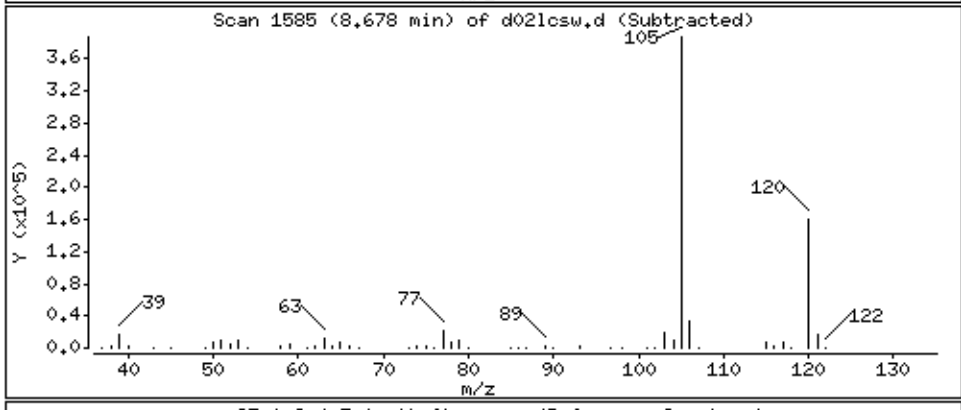
Column diameter: 0.18

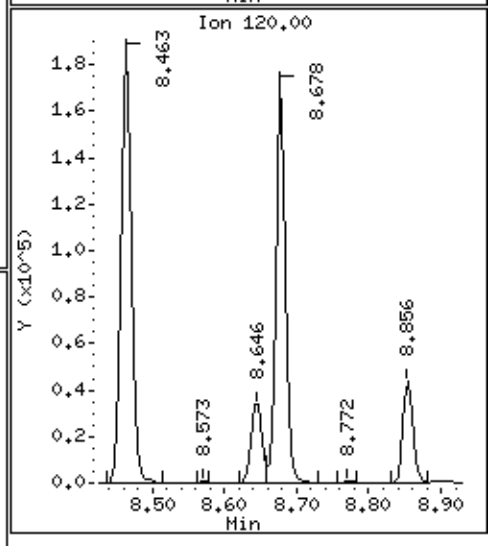
87 1,2,4-Trimethylbenzene

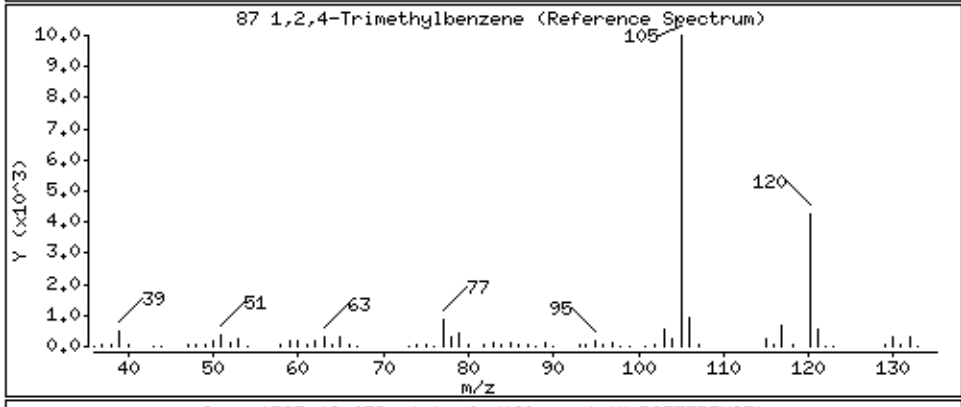
Concentration: 51.6 ppb

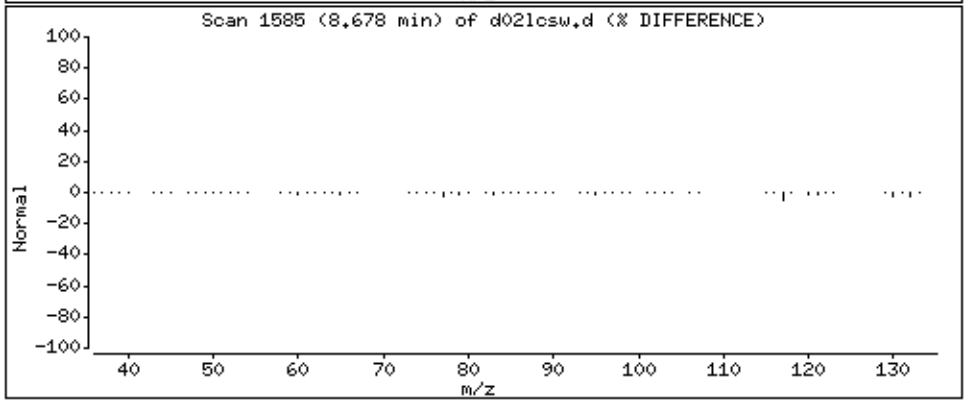












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d02lcsw.d

Date : 18-MAR-2016 01:09

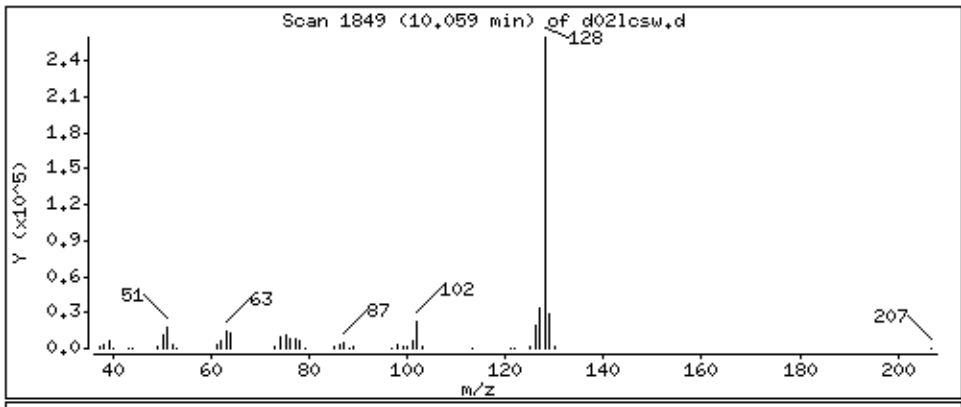
Client ID: LCSw,117024:5 Instrument: 50mv1b.i

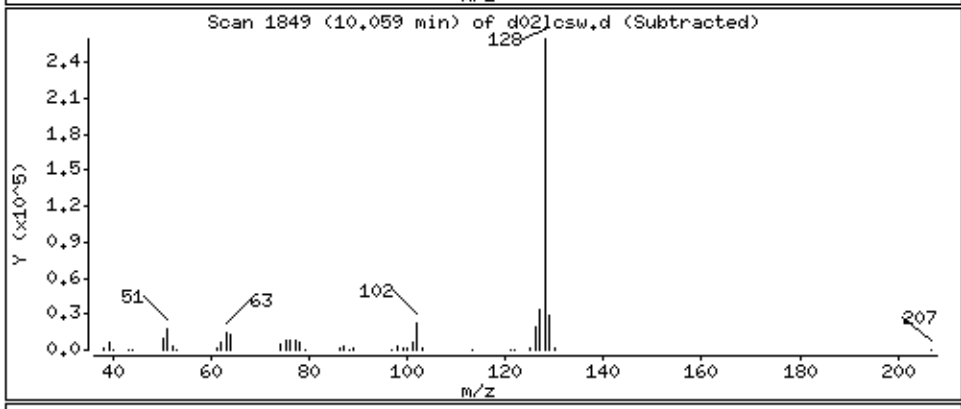
Sample Info: 1500385,117024:5

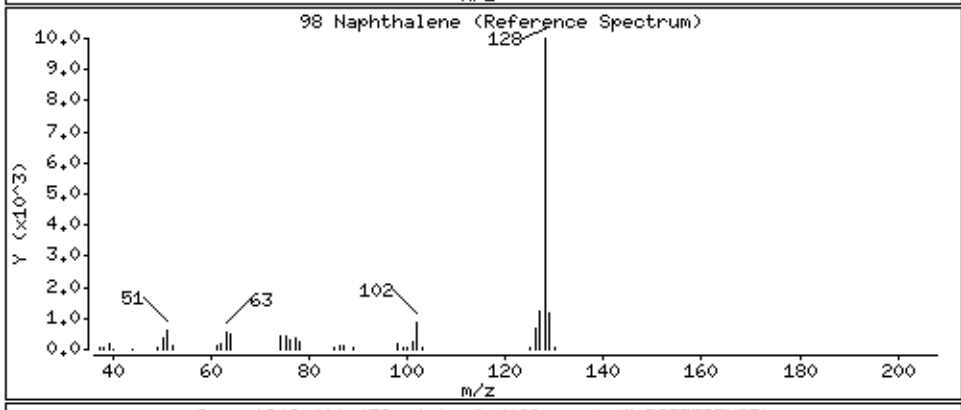
Purge Volume: 5.0 Operator: grm

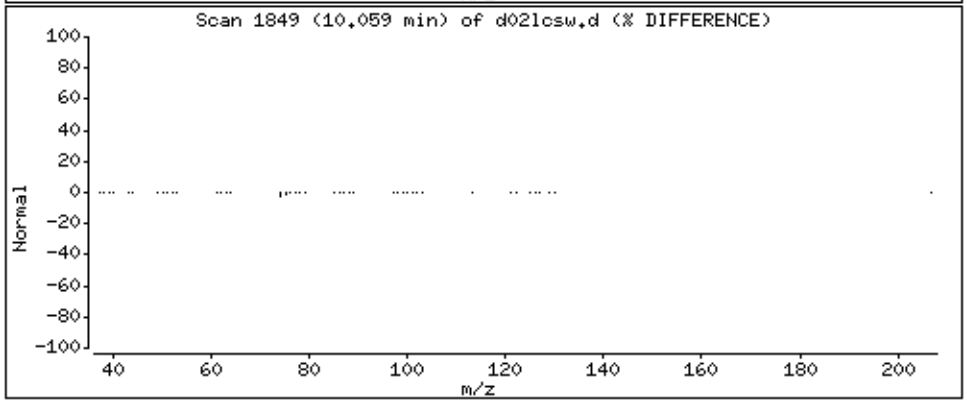
Column phase: DB-624 Column diameter: 0.18

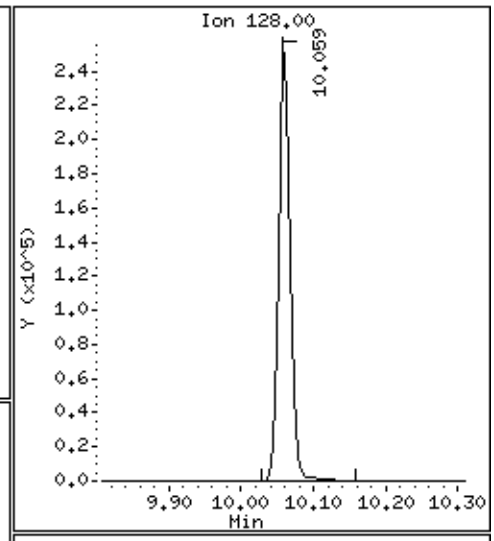
98 Naphthalene Concentration: 47.1 ppb

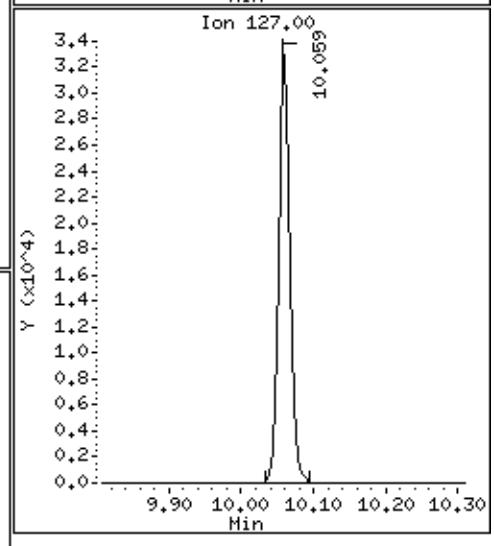












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d02lcsw.d
Injection Date: 18-MAR-2016 01:09
Instrument: 50mv1b.i
Lab Sample ID: 1500385,117024:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 05:16 Lab Sample ID: 1500386

Date Analyzed: 03/18/2016 05:16 Lab File ID: B031716.B\D09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	262	
108-90-7	Chlorobenzene	246	
67-66-3	Chloroform	256	
75-35-4	1,1-Dichloroethene	270	
156-59-2	cis-1,2-Dichloroethene	382	
156-60-5	trans-1,2-Dichloroethene	295	
78-87-5	1,2-Dichloropropane	255	
100-41-4	Ethylbenzene	251	
98-82-8	Isopropylbenzene (Cumene)	254	
1634-04-4	Methyl-tert-butyl ether	260	
79-34-5	1,1,2,2-Tetrachloroethane	270	
127-18-4	Tetrachloroethene	263	
108-88-3	Toluene	252	
71-55-6	1,1,1-Trichloroethane	257	
79-01-6	Trichloroethene	2890	
75-01-4	Vinyl chloride	258	
1330-20-7	Xylene (Total)	758	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d
Lab Smp Id: 1500386 Client Smp ID: MW-0621-S1(030916)M
Inj Date : 18-MAR-2016 05:16
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1500386x5,117024:5
Misc Info : 88040,8260ss
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 82 QC Sample: MS
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

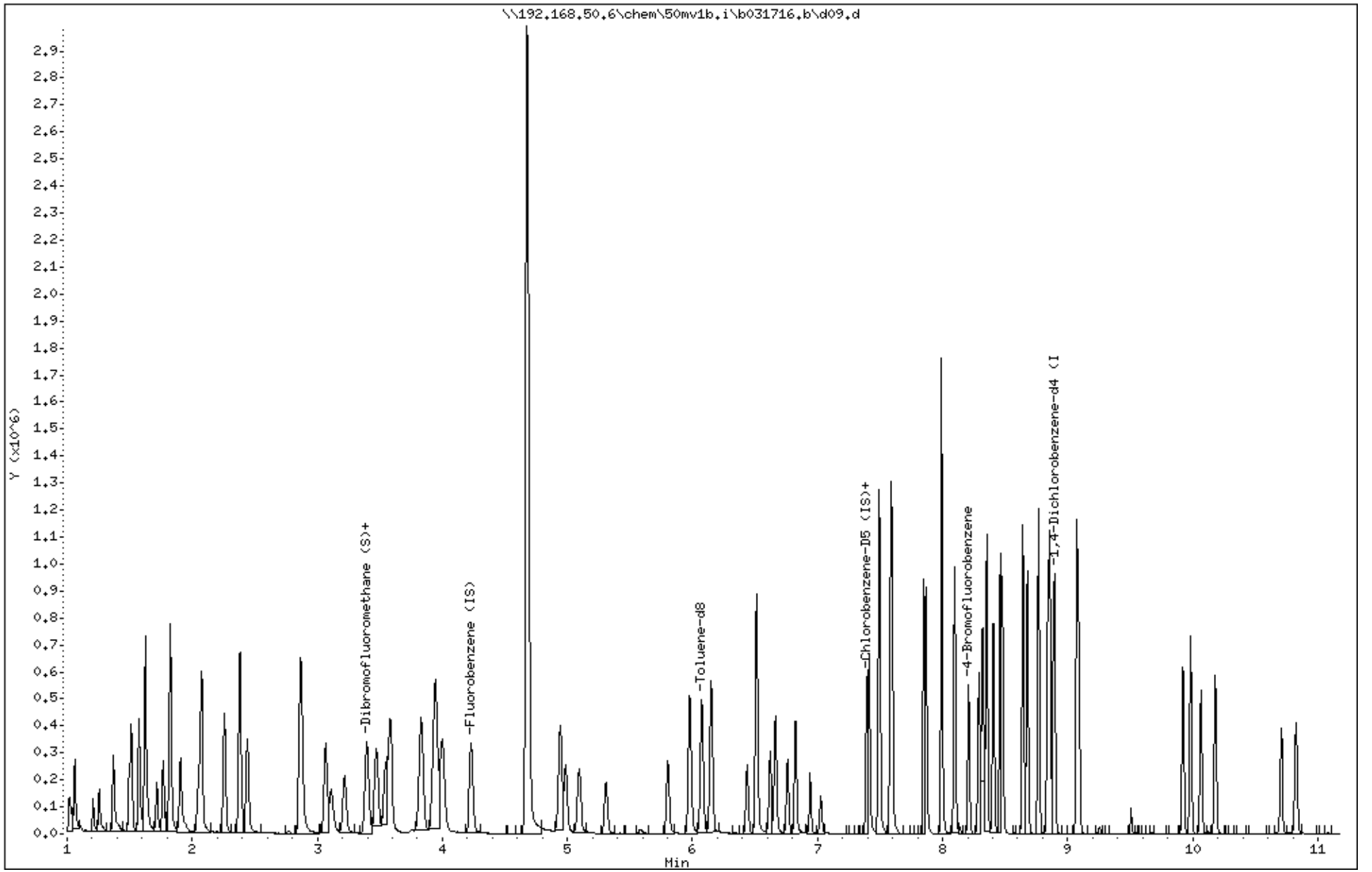
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.062	(0.251)	155031	51.6741	258(R)	
	11 1,1-Dichloroethene	96	1.628	1.627	(0.385)	81699	53.9595	270(R)	
	21 Methyl-tert-butyl ether	73	2.062	2.067	(0.487)	216394	52.0349	260(R)	
	22 1,2-Dichloroethene (trans)	96	2.078	2.077	(0.491)	101727	58.9152	294(R)	
	29 1,2-Dichloroethene (cis)	96	2.868	2.872	(0.678)	137514	76.4806	382(R)	
	35 Chloroform	83	3.218	3.222	(0.760)	164466	51.1288	256(R)	
	37 1,1,1-Trichloroethane	97	3.391	3.395	(0.801)	149303	51.4428	257(R)	
$	38 Dibromofluoromethane (S)	113	3.396	3.400	(0.802)	81619	48.0519	48.0	
	42 Benzene	78	3.830	3.834	(0.905)	347892	52.3421	262(R)	
*	46 Fluorobenzene (IS)	96	4.233	4.232	(1.000)	327095	50.0000		
	47 Trichloroethene	95	4.677	4.682	(1.105)	1009227	577.305	2890(R)	
	49 1,2-Dichloropropane	63	4.986	4.990	(1.178)	87661	50.9105	254(R)	
$	57 Toluene-d8	98	6.074	6.073	(0.822)	300301	50.6840	50.7	
	58 Toluene	91	6.147	6.146	(0.832)	366867	50.4828	252(R)	
	62 Tetrachloroethene	166	6.665	6.664	(0.902)	104054	52.6086	263(R)	
*	67 Chlorobenzene-D5 (IS)	117	7.392	7.391	(1.000)	228187	50.0000		
	68 Chlorobenzene	112	7.413	7.412	(1.003)	230445	49.2538	246(R)	
	70 Ethylbenzene	106	7.491	7.495	(1.013)	129031	50.2517	251(R)	
	71 m&p-Xylene	106	7.590	7.590	(1.027)	322823	100.430	502(R)	
	72 o-Xylene	106	7.852	7.851	(1.062)	160857	51.1229	256(R)	
	75 Isopropylbenzene	105	8.098	8.097	(1.095)	450818	50.8442	254(R)	
$	76 4-Bromofluorobenzene	95	8.208	8.207	(1.110)	109072	52.6552	52.6	
	79 1,1,2,2-Tetrachloroethane	83	8.302	8.301	(0.935)	82022	54.0253	270(R)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.977)	351521	48.1552	241(R)	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.882	8.881	(1.000)	126395	50.0000		
98 Naphthalene	128	10.064	10.058	(1.133)	309681	47.9391	240(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d
Date : 18-MAR-2016 05:16
Client ID: MW-0621-S1(030916)M
Instrument: 50mv1b.i
Sample Info: 1500386x5,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

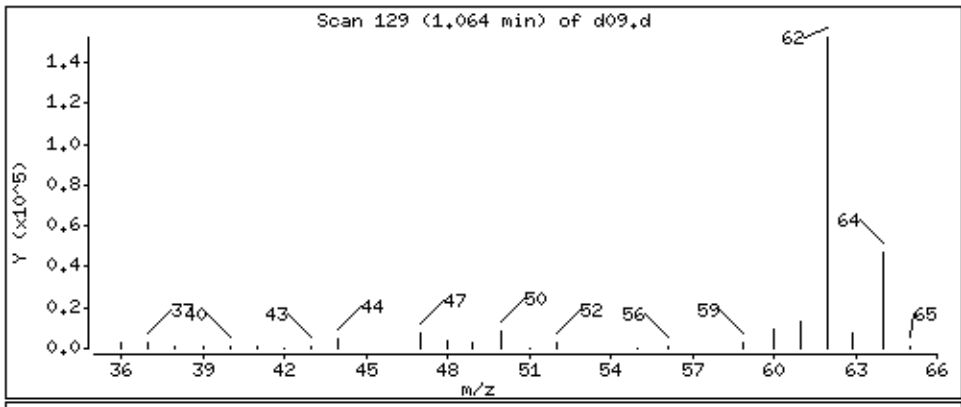
Operator: grm

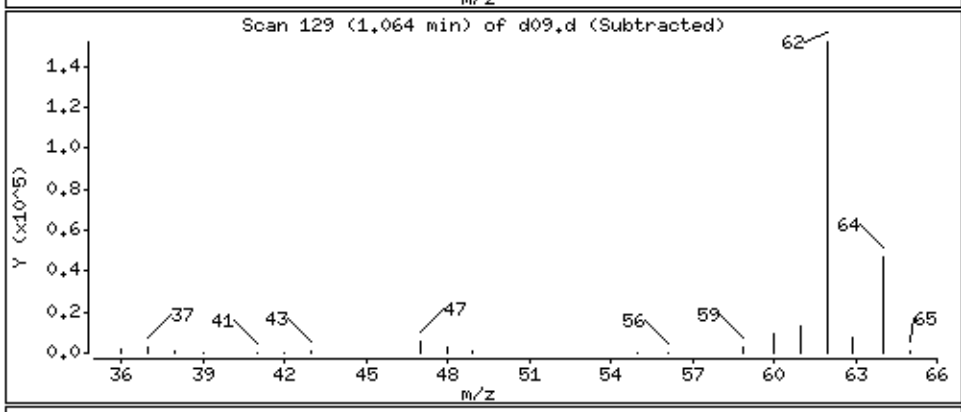
Column phase: DB-624

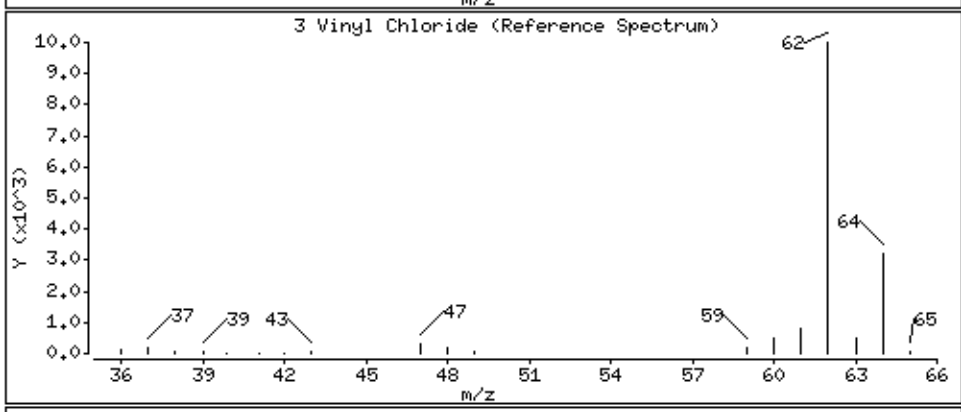
Column diameter: 0.18

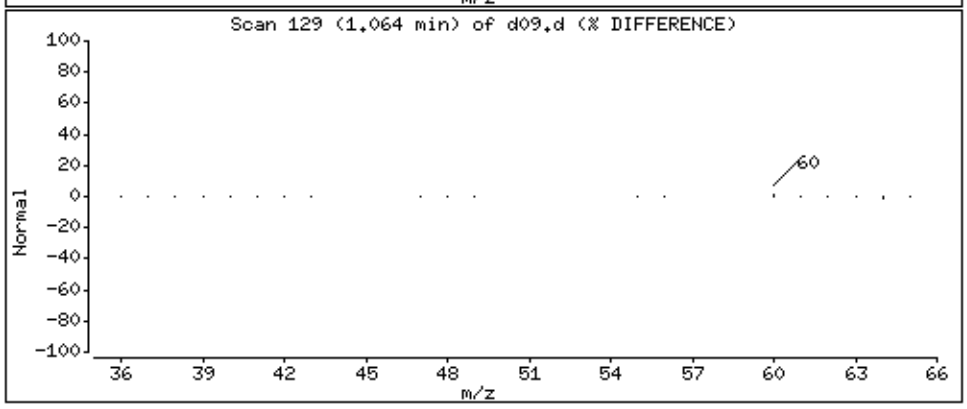
3 Vinyl Chloride

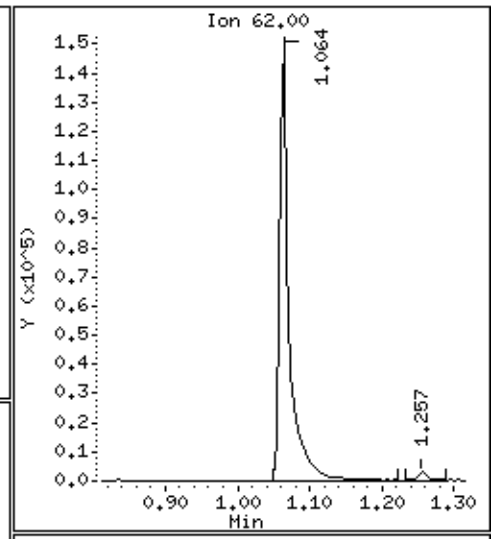
Concentration: 258 ppb

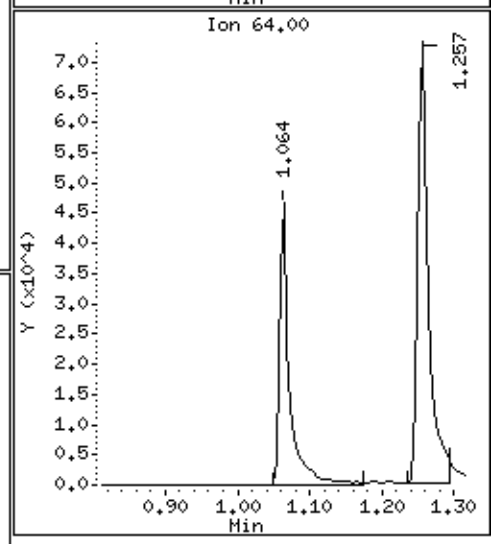












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

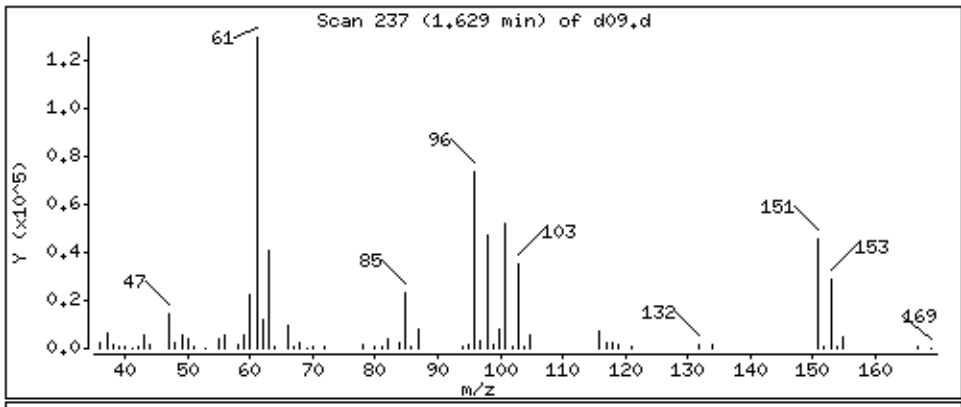
Operator: grm

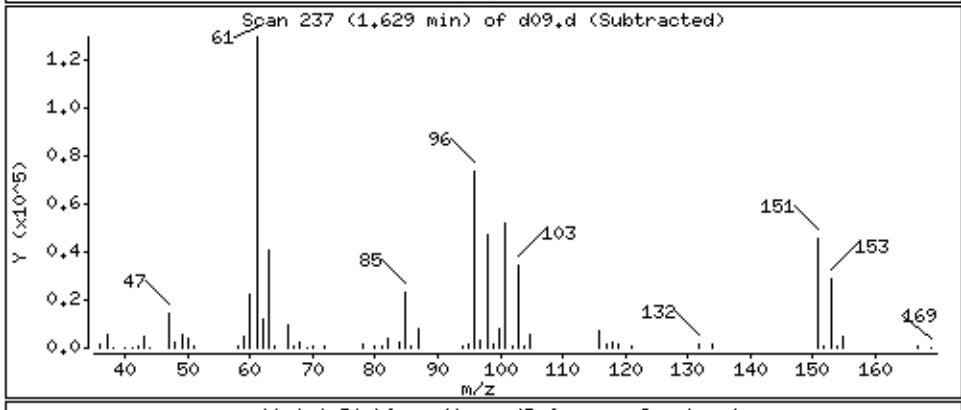
Column phase: DB-624

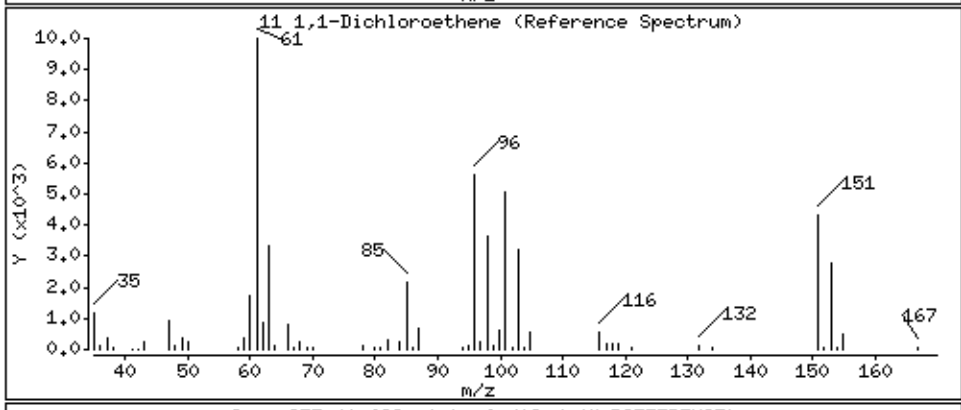
Column diameter: 0.18

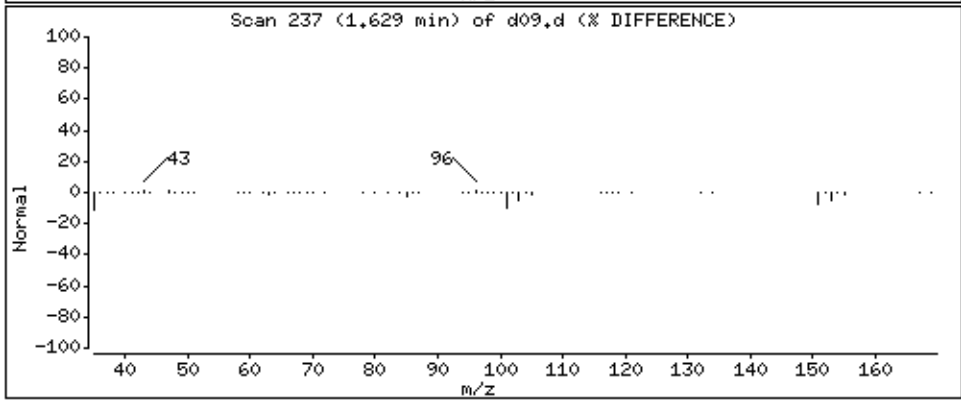
11 1,1-Dichloroethene

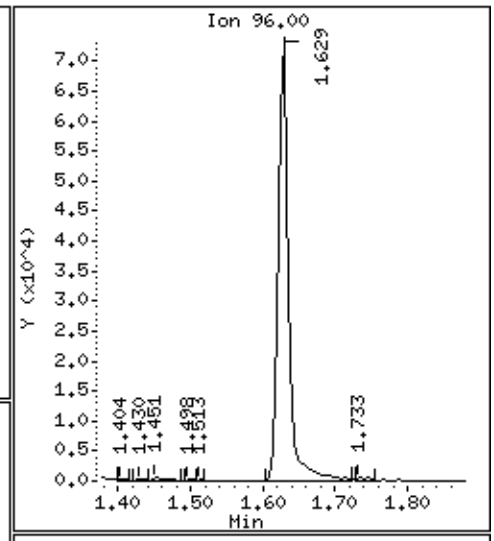
Concentration: 270 ppb

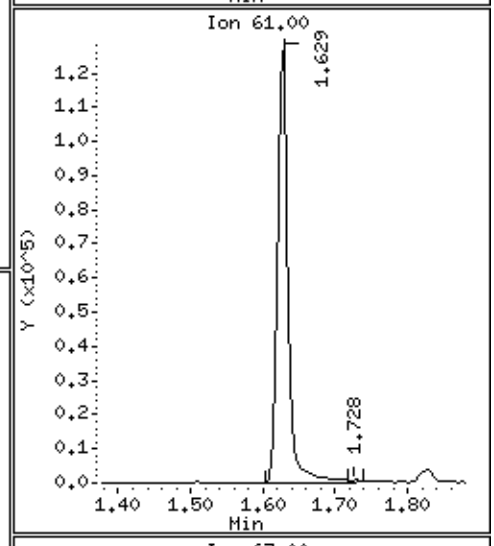


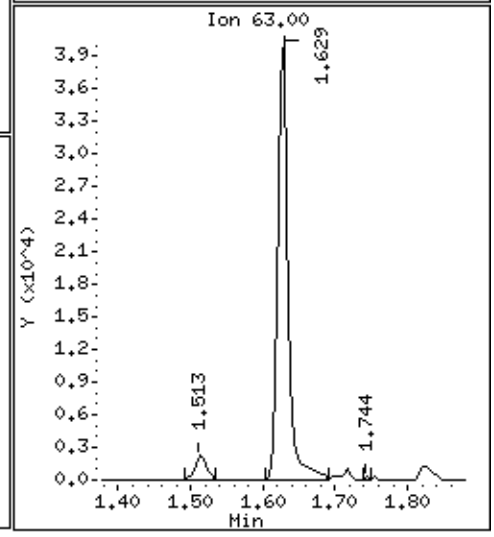












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

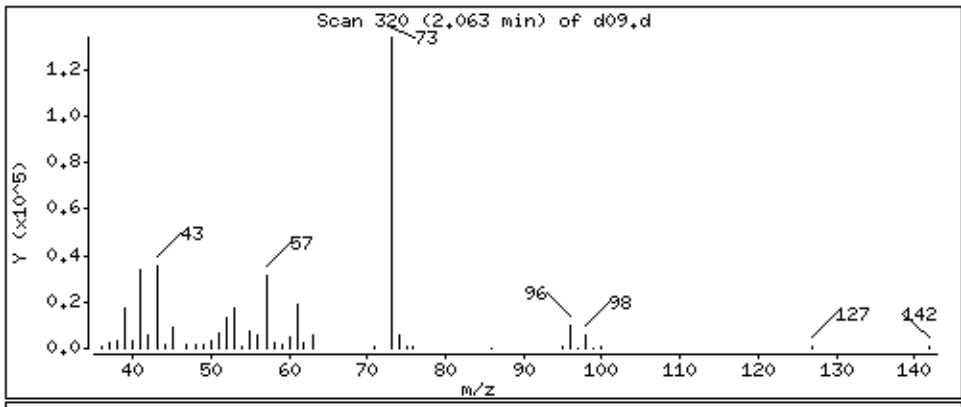
Operator: grm

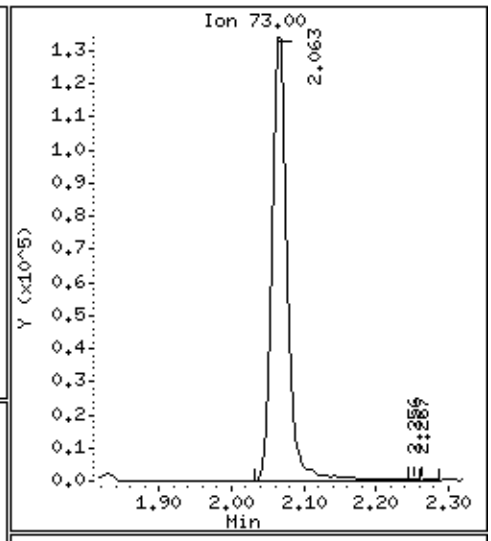
Column phase: DB-624

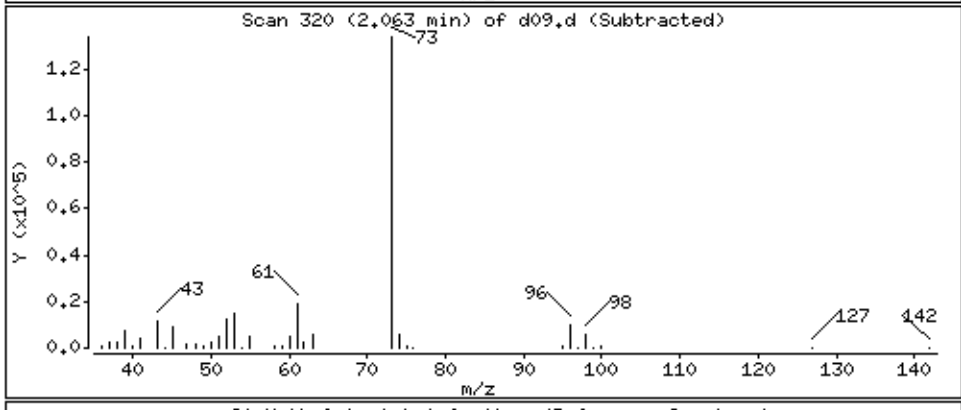
Column diameter: 0.18

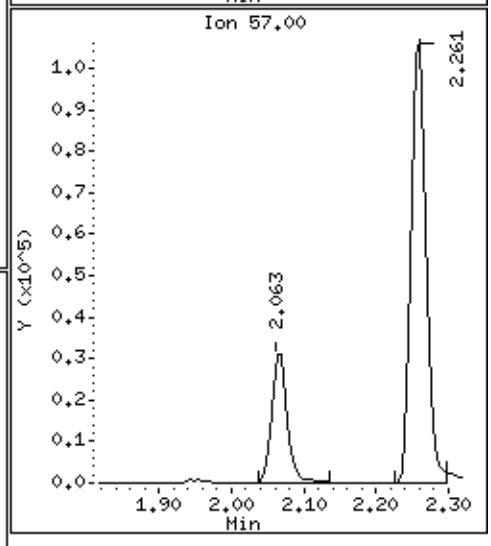
21 Methyl-tert-butyl ether

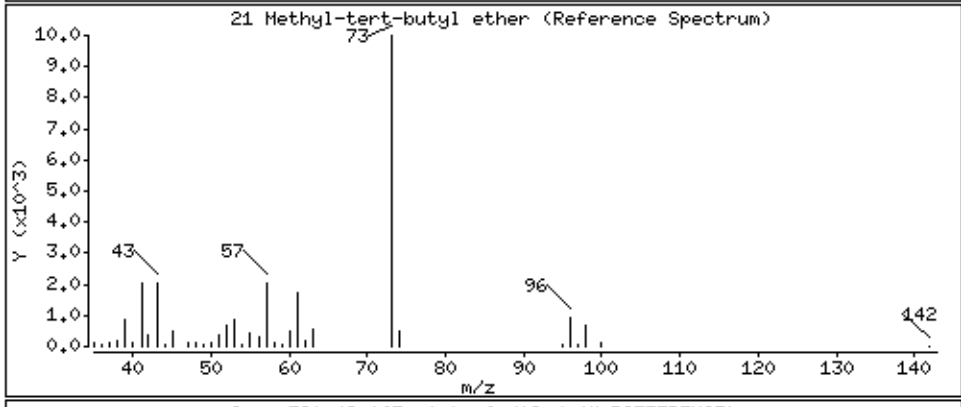
Concentration: 260 ppb

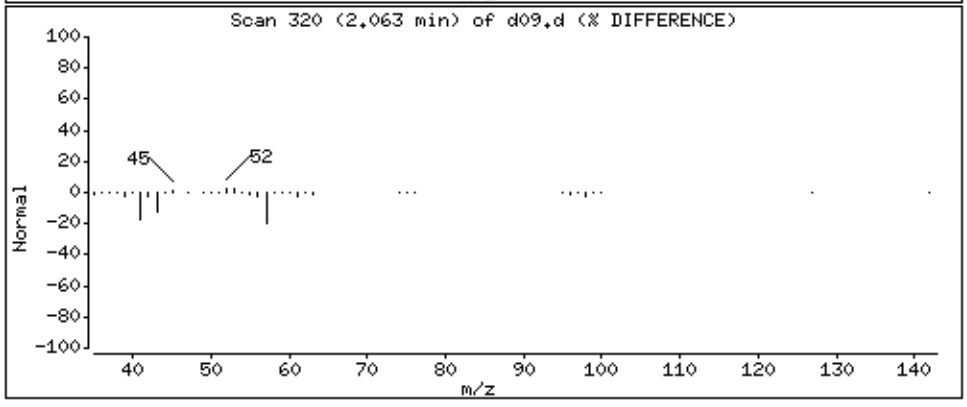












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

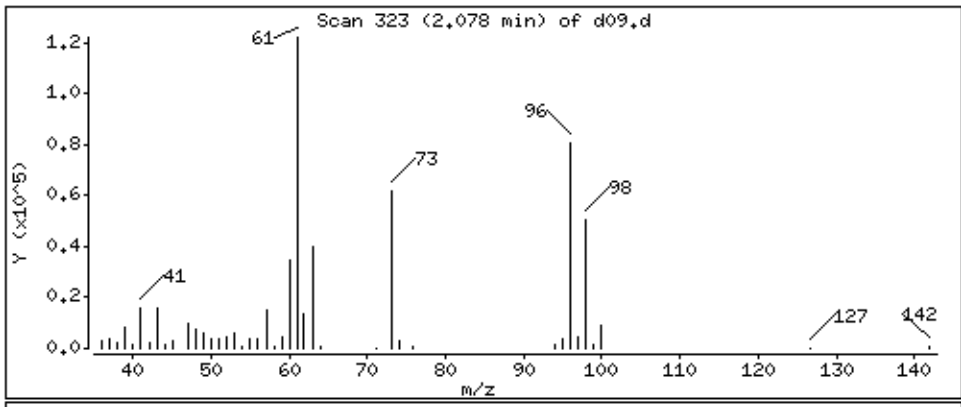
Operator: grm

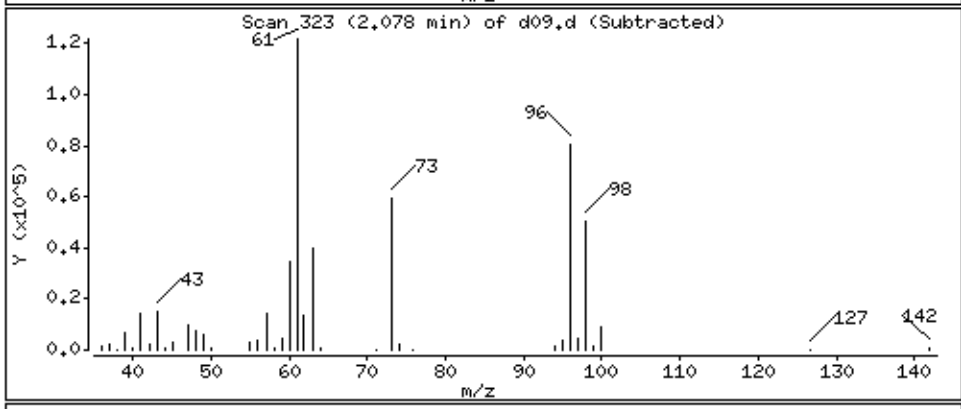
Column phase: DB-624

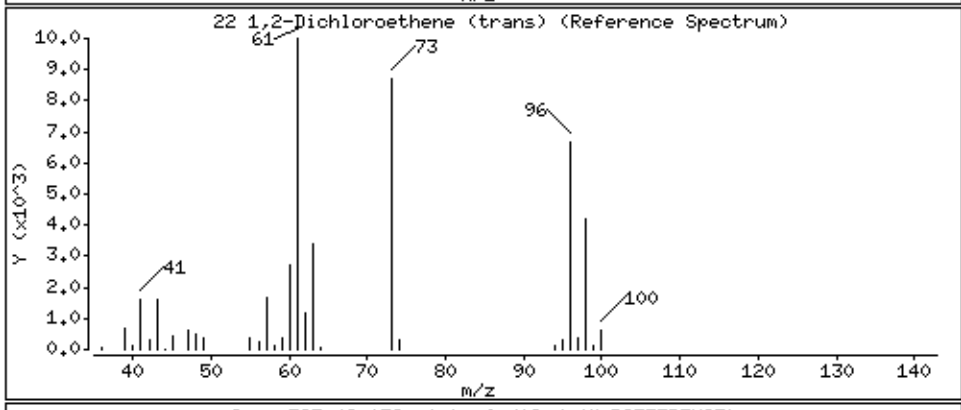
Column diameter: 0.18

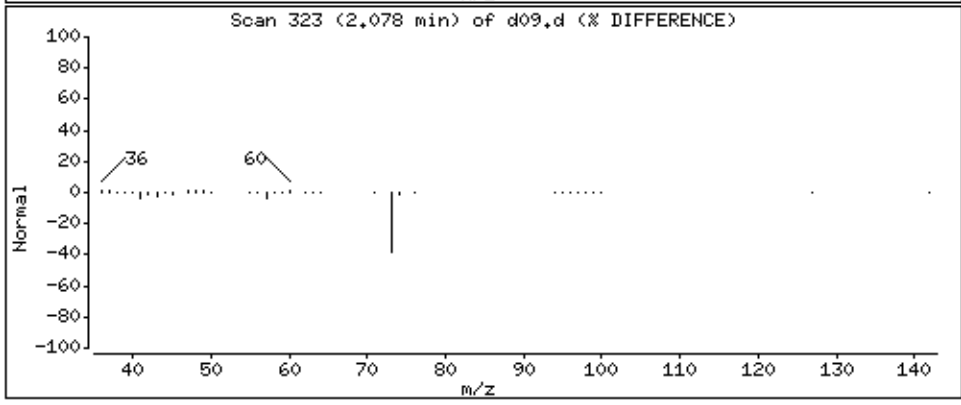
22 1,2-Dichloroethene (trans)

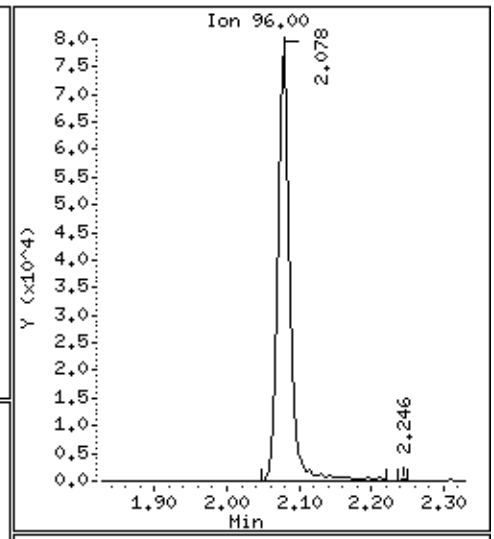
Concentration: 294 ppb

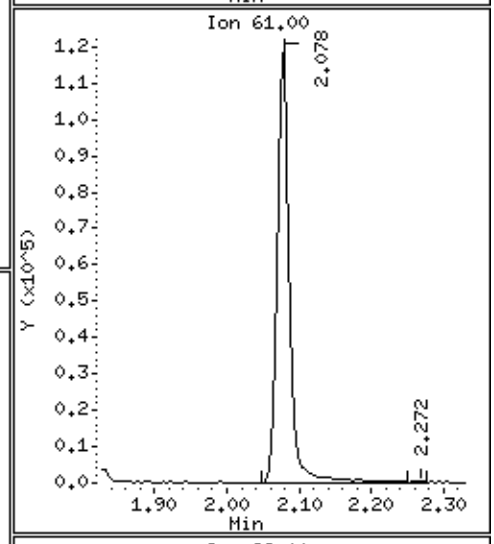


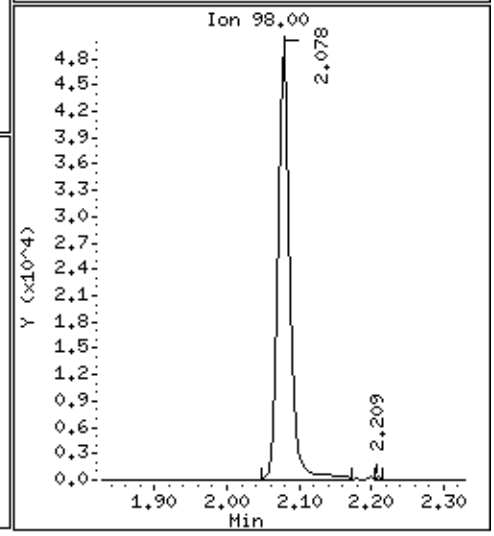












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

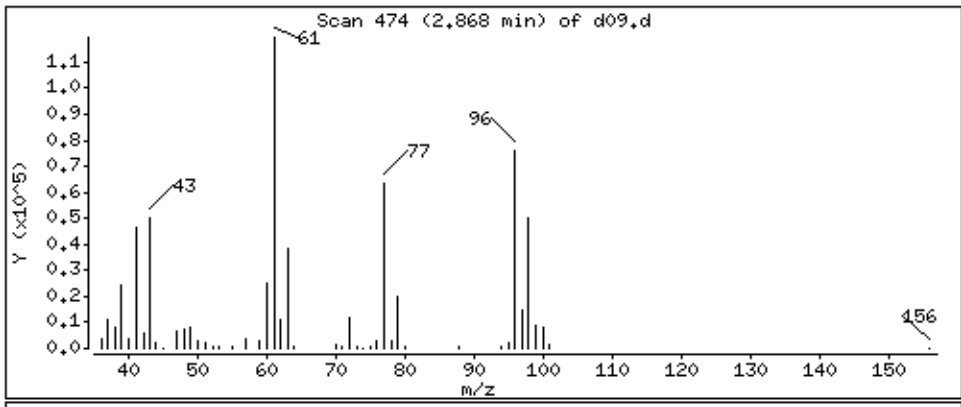
Operator: grm

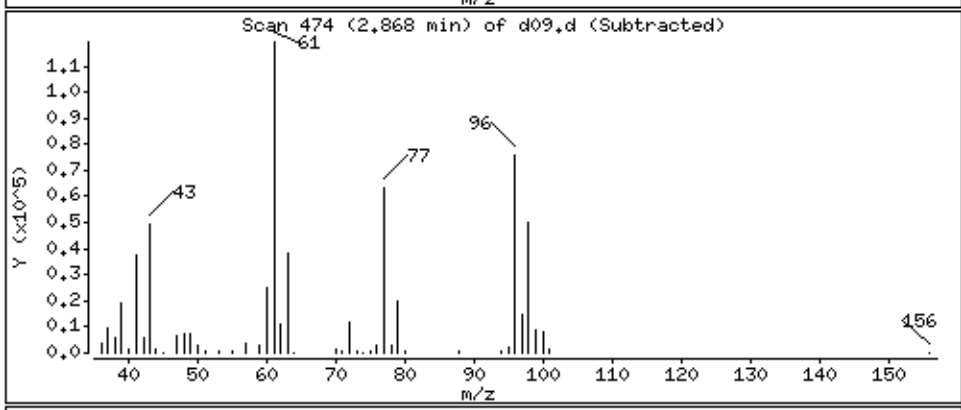
Column phase: DB-624

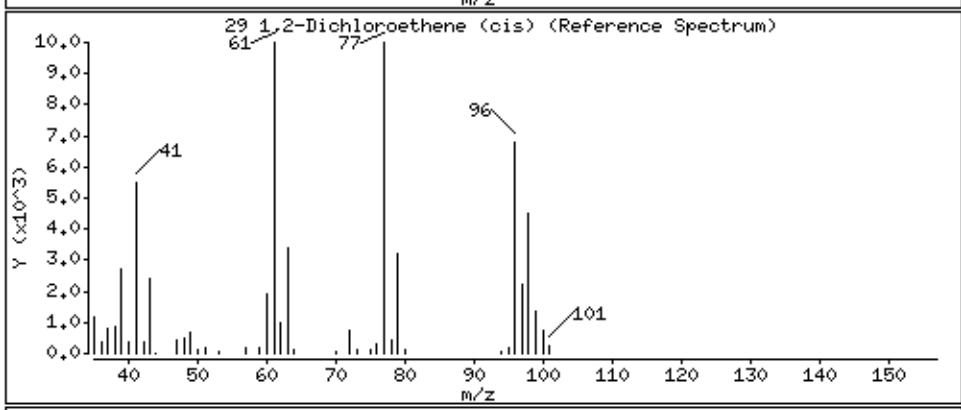
Column diameter: 0.18

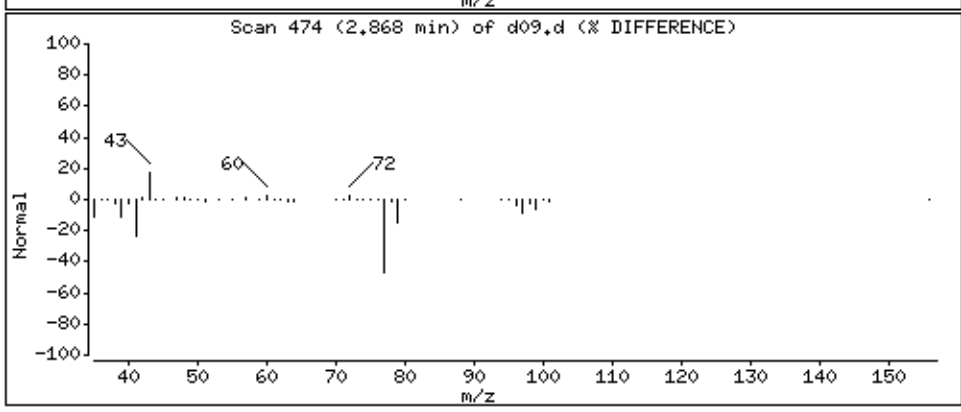
29 1,2-Dichloroethene (cis)

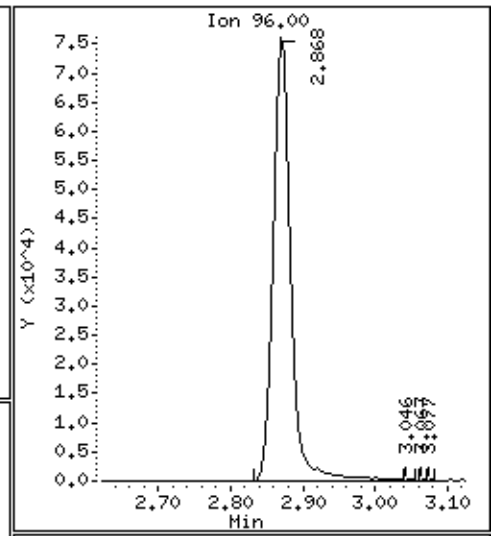
Concentration: 382 ppb

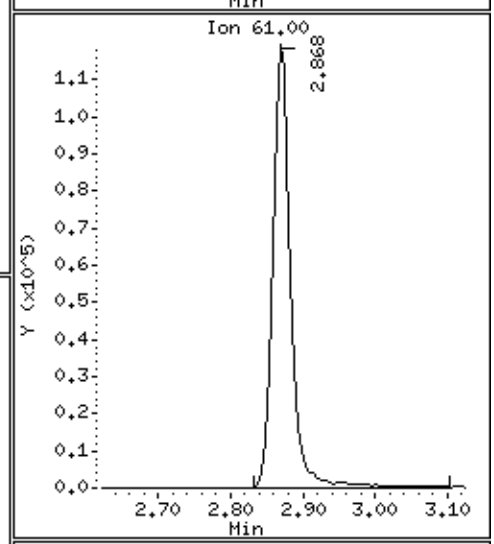


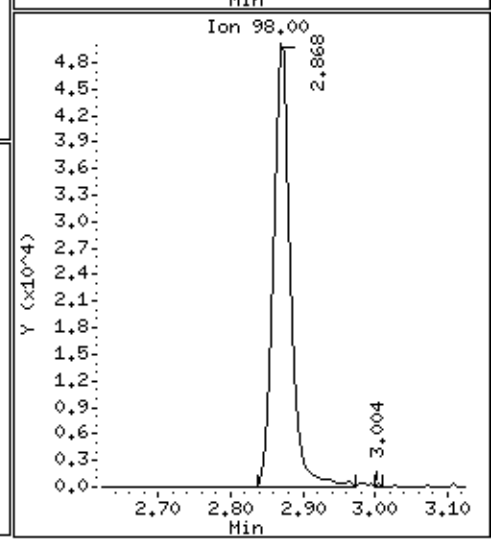












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

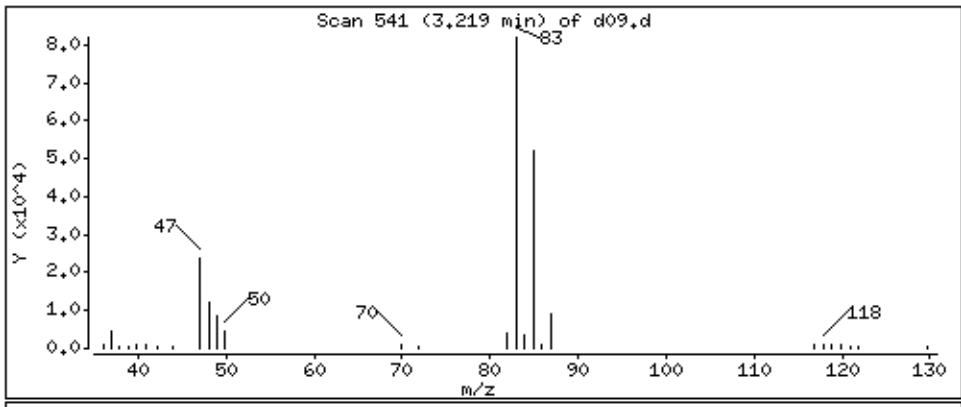
Operator: grm

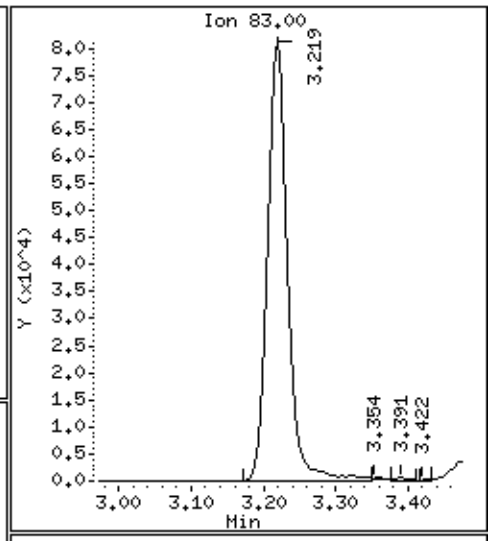
Column phase: DB-624

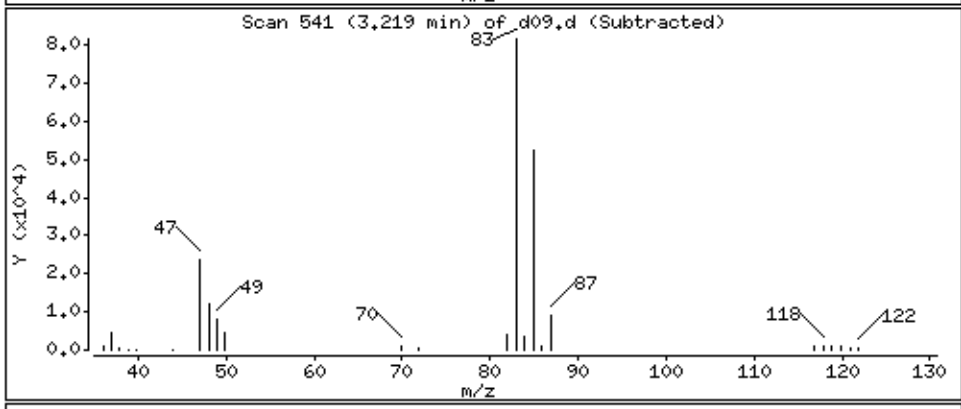
Column diameter: 0.18

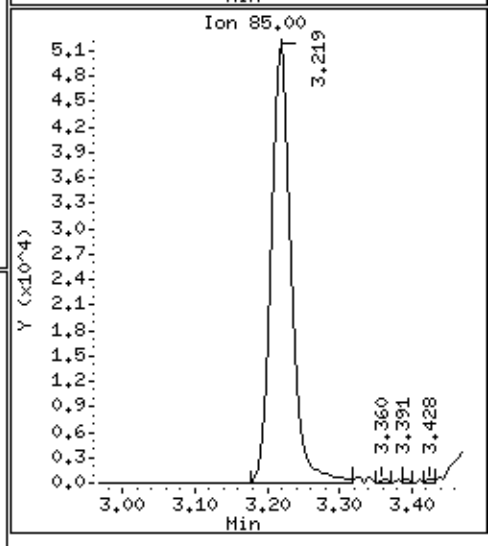
35 Chloroform

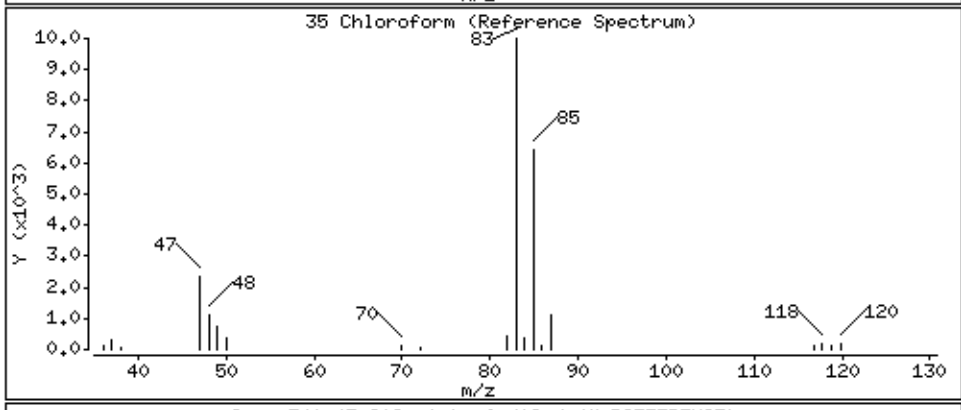
Concentration: 256 ppb

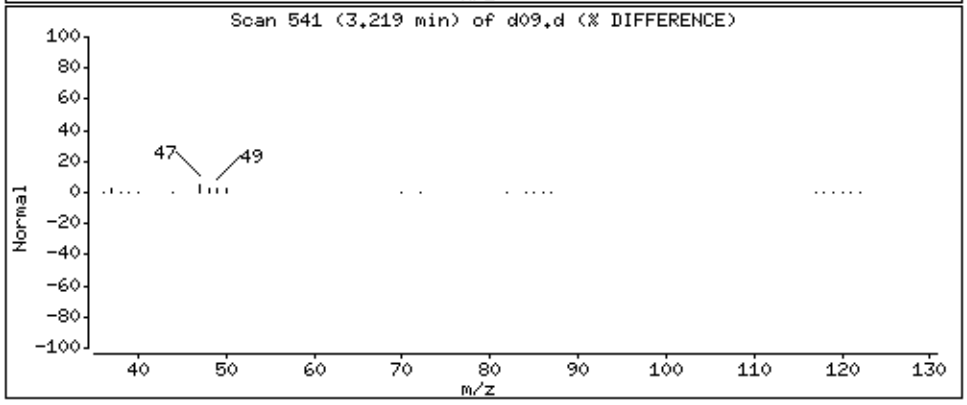












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

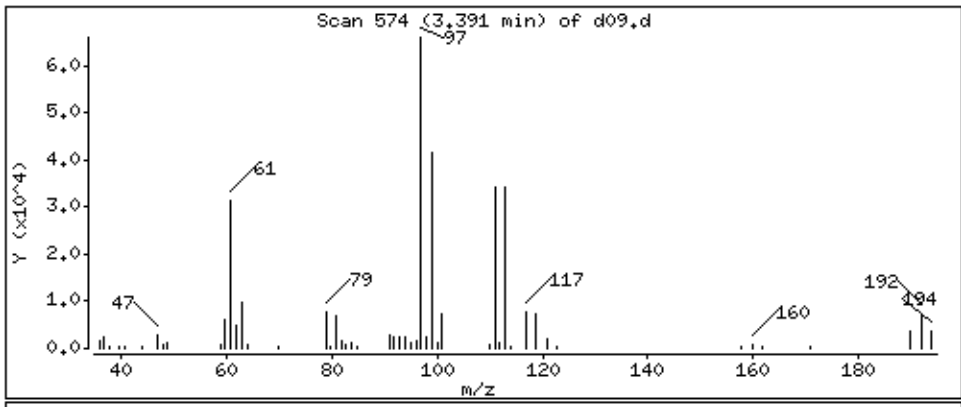
Operator: grm

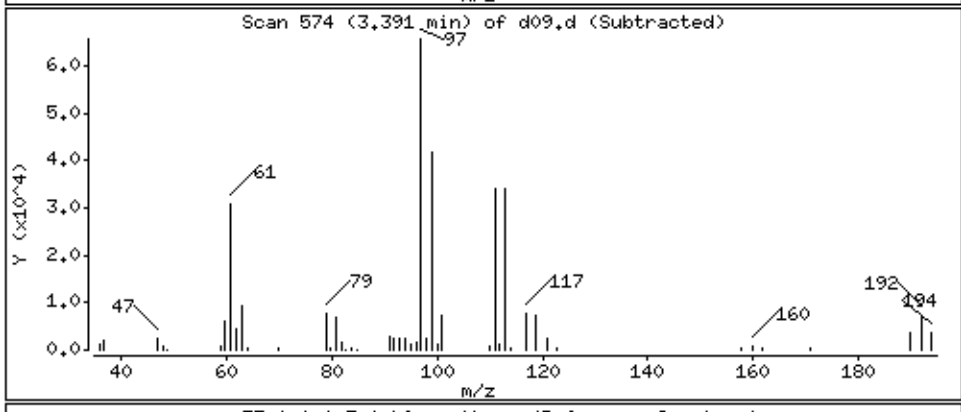
Column phase: DB-624

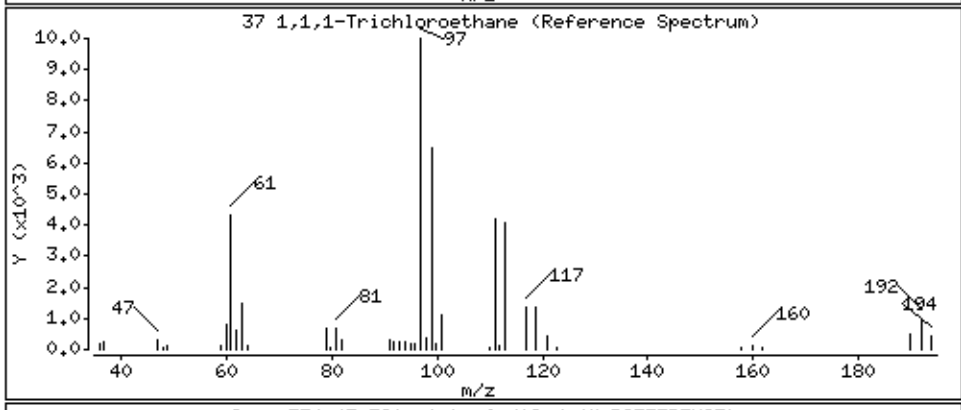
Column diameter: 0.18

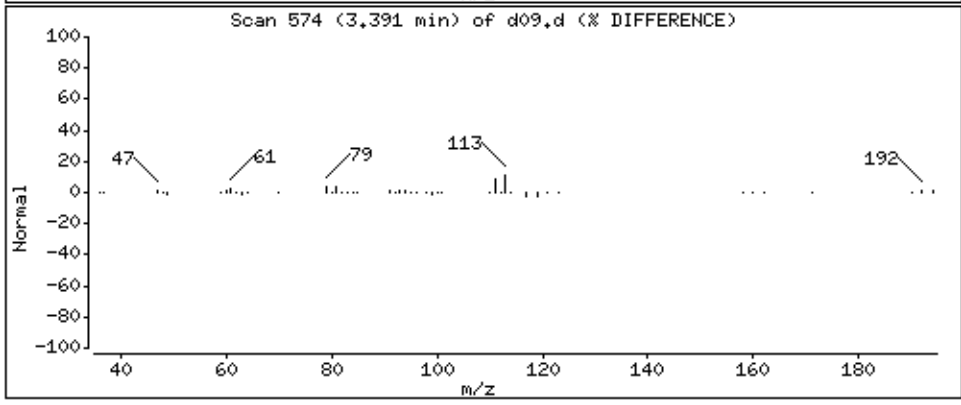
37 1,1,1-Trichloroethane

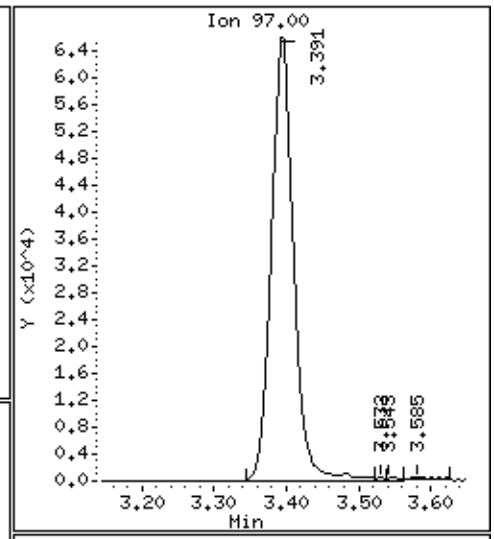
Concentration: 257 ppb

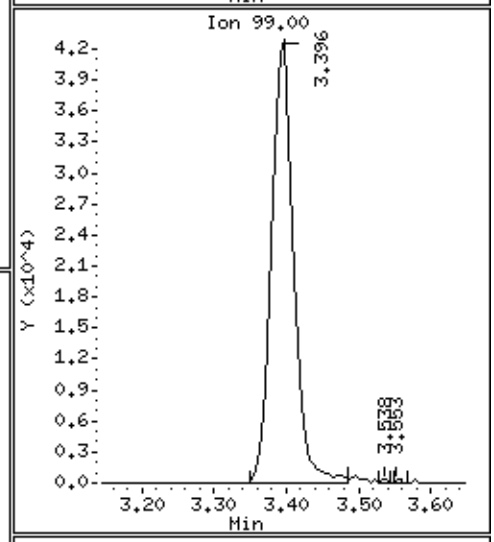


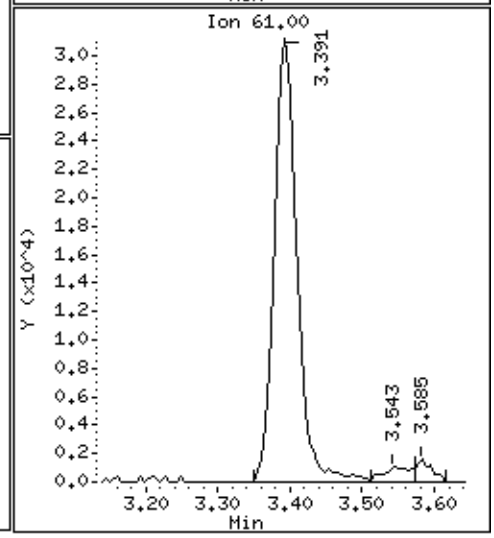












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

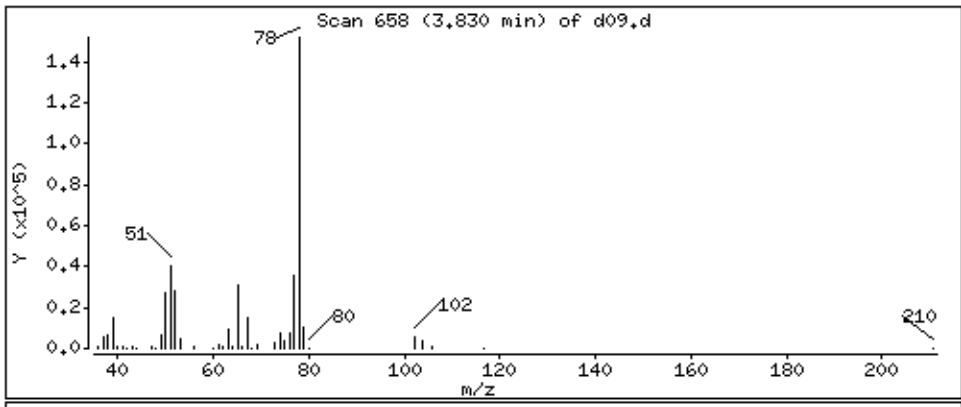
Operator: grm

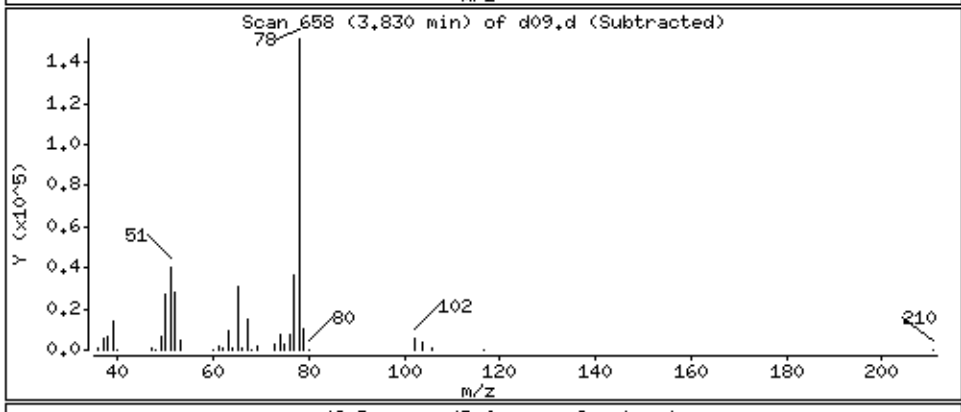
Column phase: DB-624

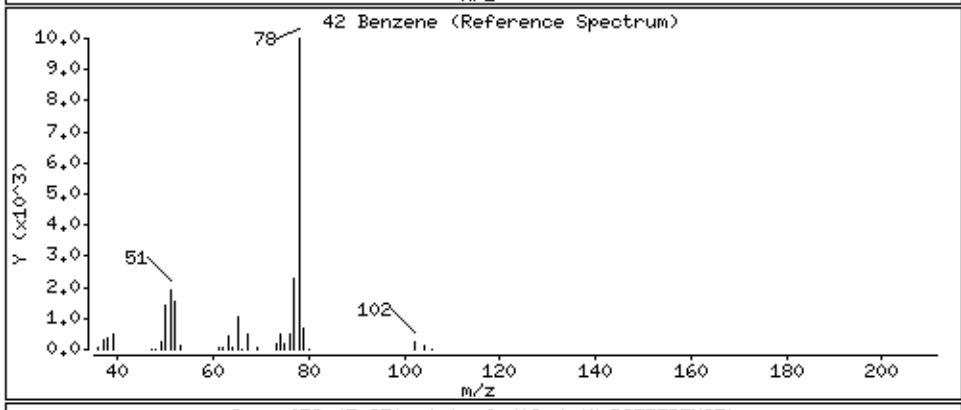
Column diameter: 0.18

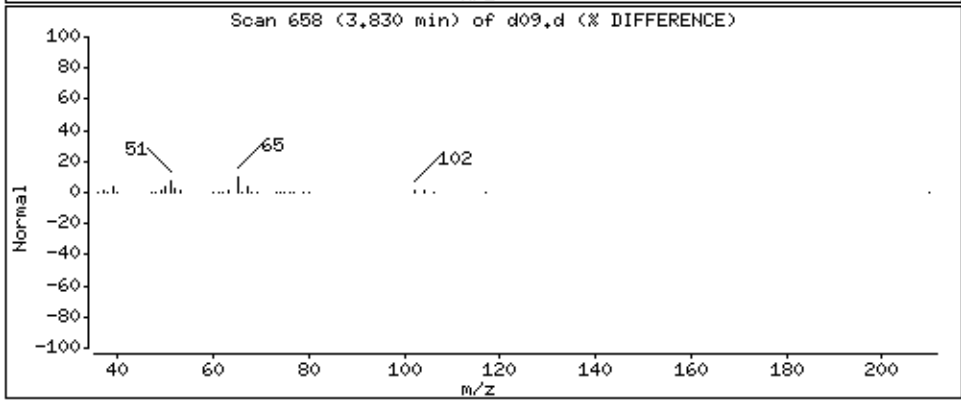
42 Benzene

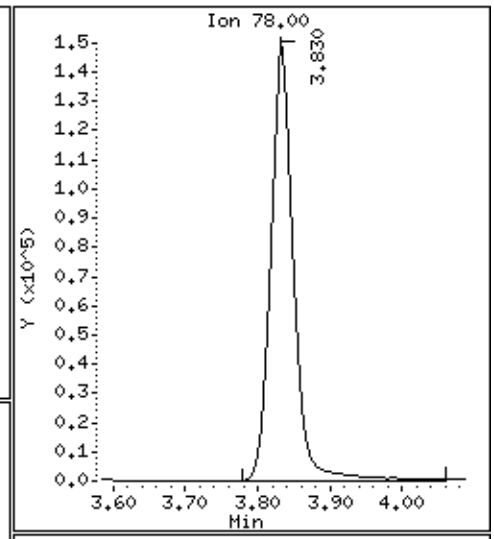
Concentration: 262 ppb

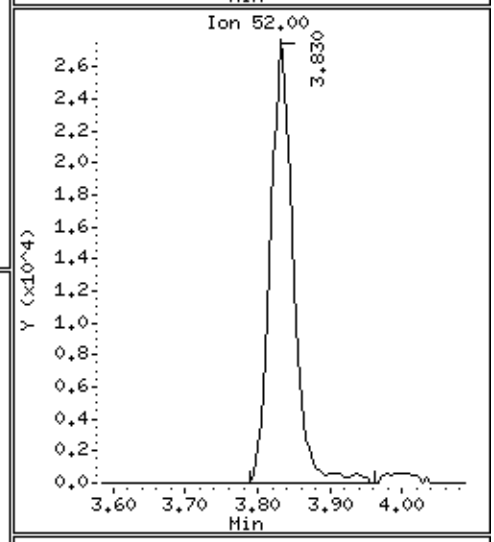


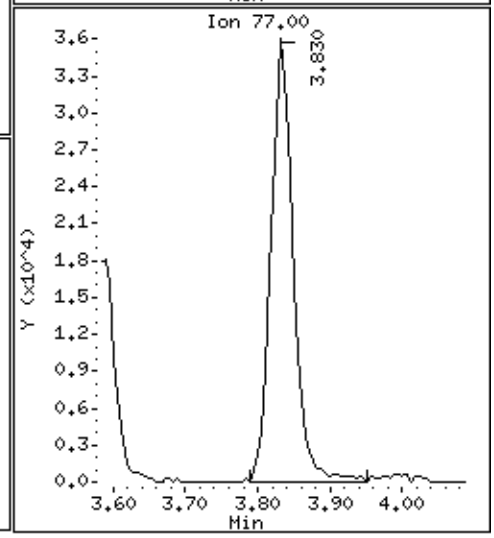












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

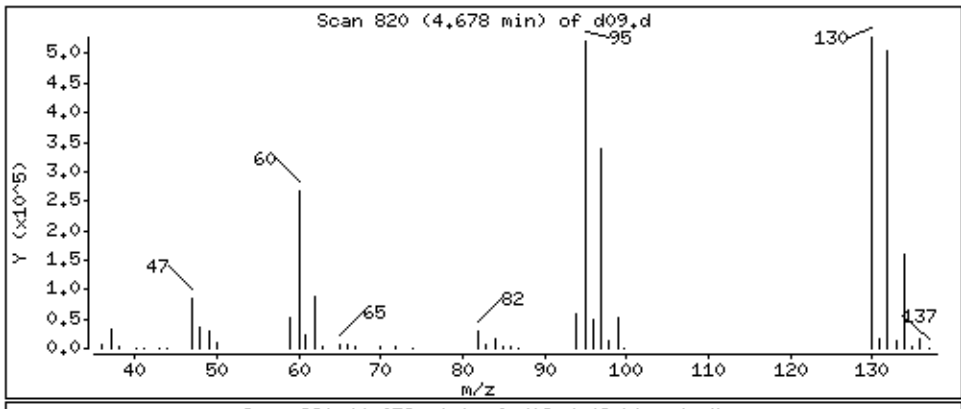
Operator: grm

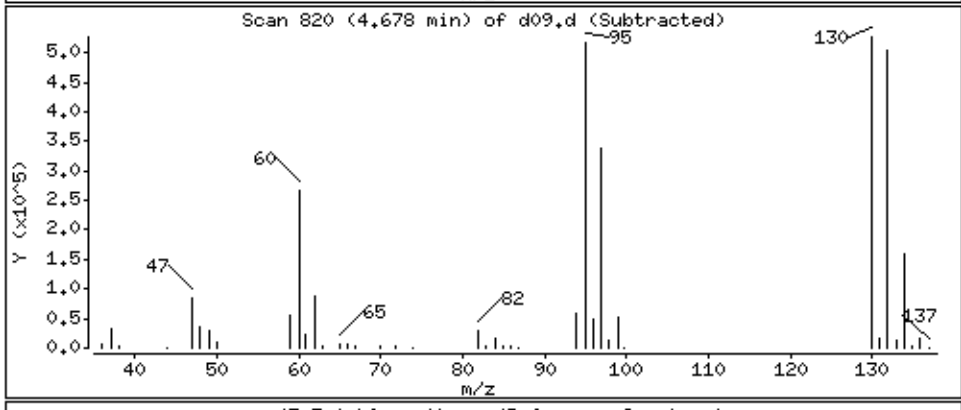
Column phase: DB-624

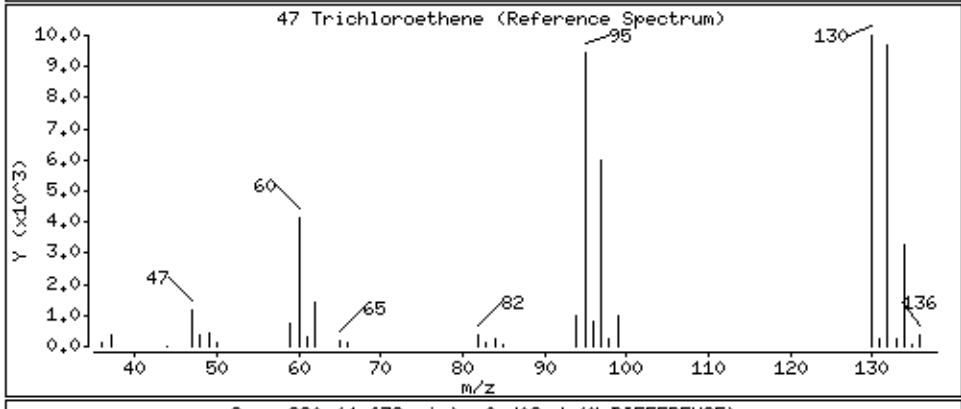
Column diameter: 0.18

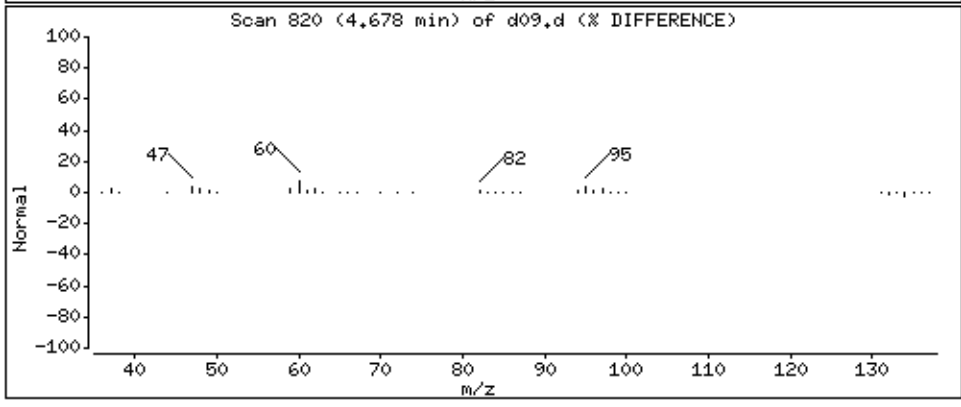
47 Trichloroethene

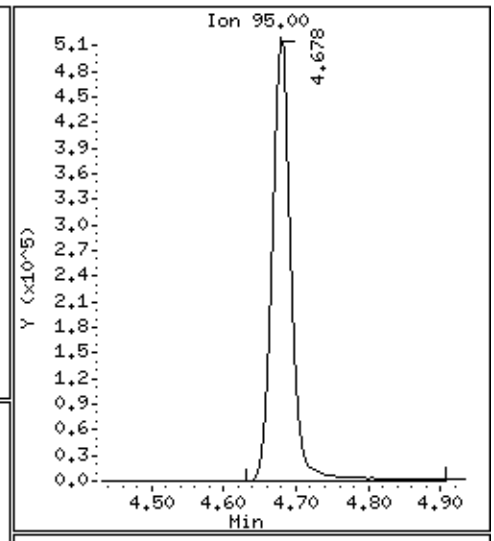
Concentration: 2890 ppb

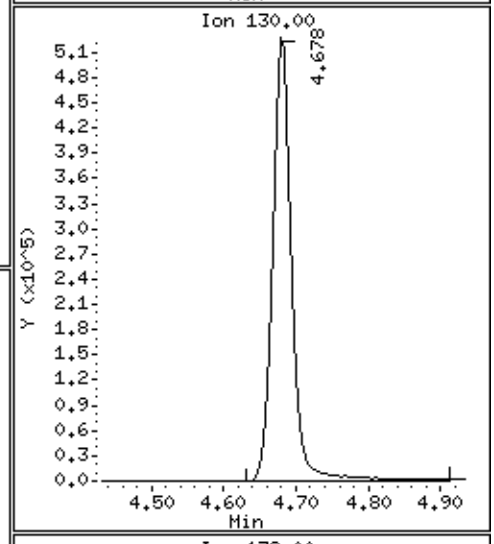


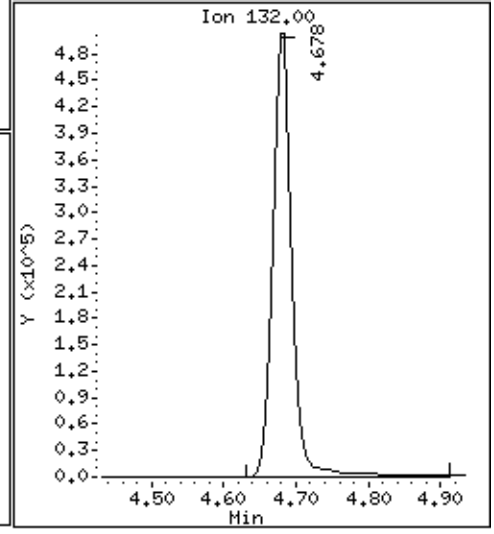












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

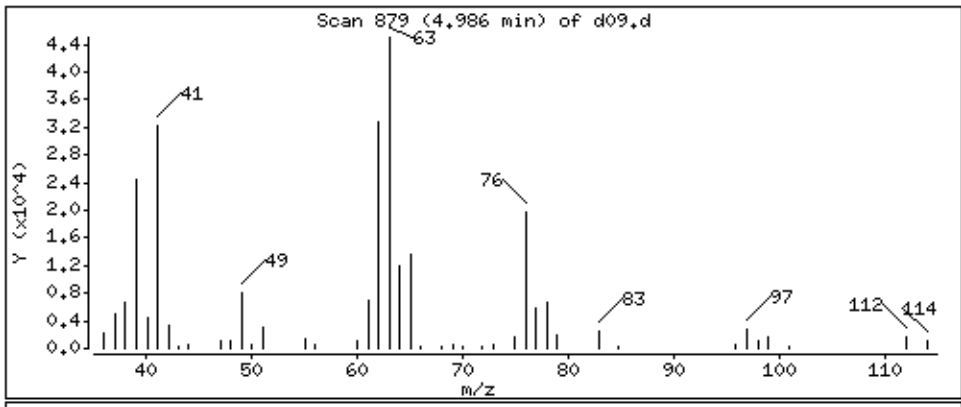
Operator: grm

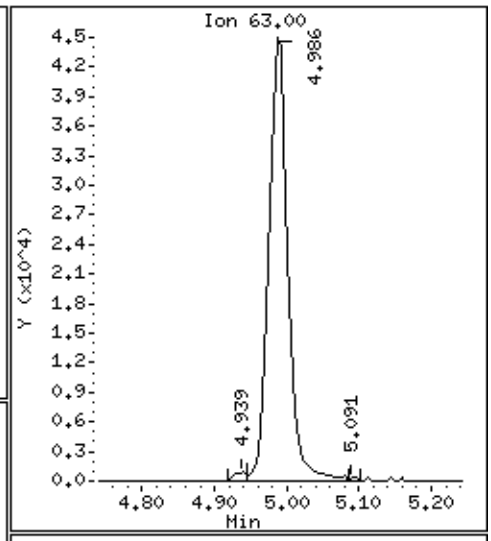
Column phase: DB-624

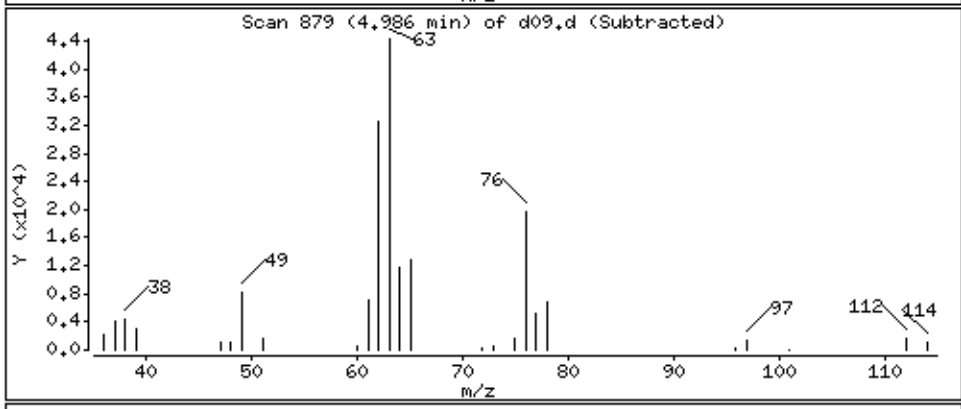
Column diameter: 0.18

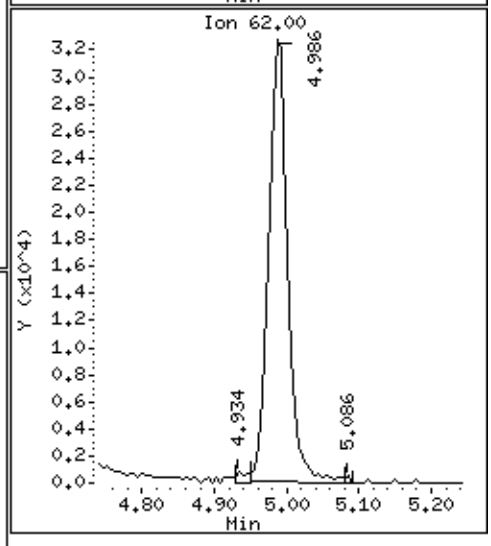
49 1,2-Dichloropropane

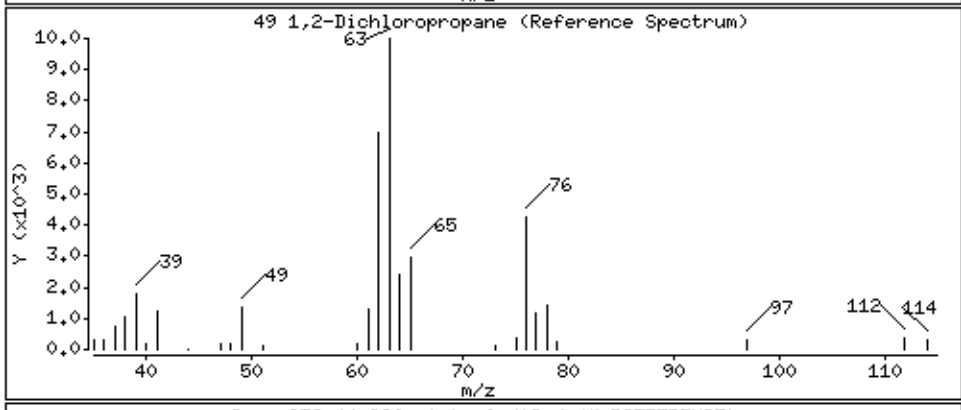
Concentration: 254 ppb

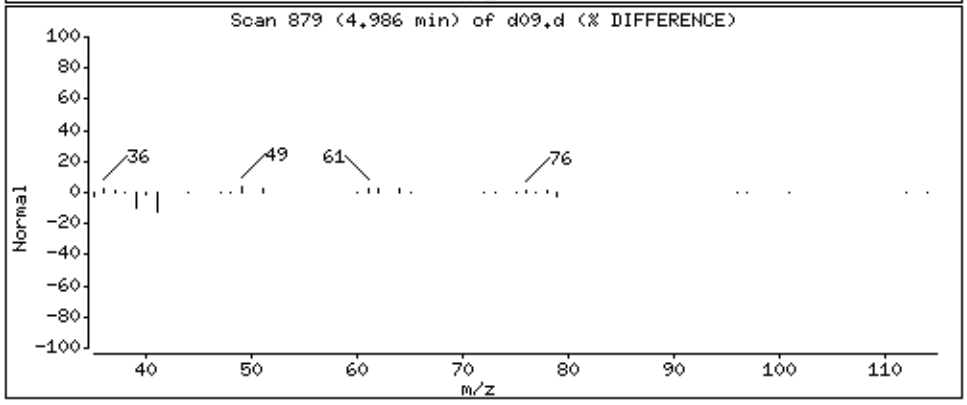












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

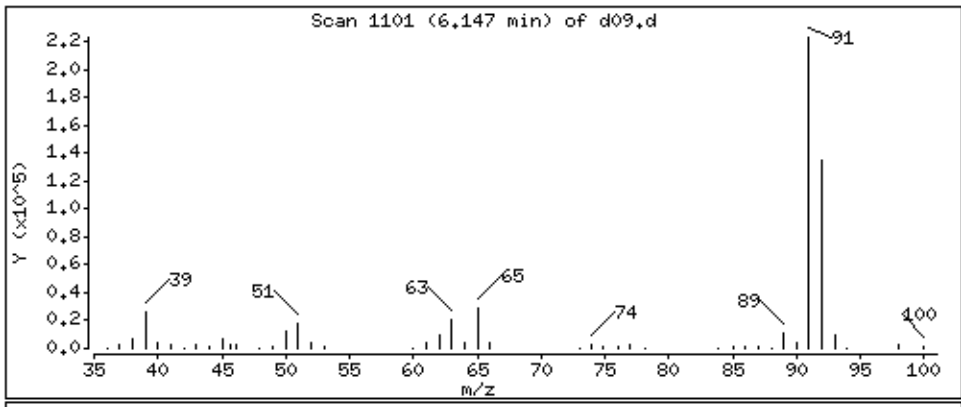
Operator: grm

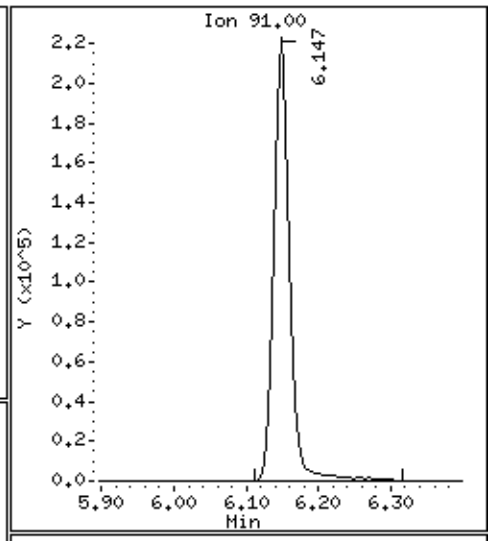
Column phase: DB-624

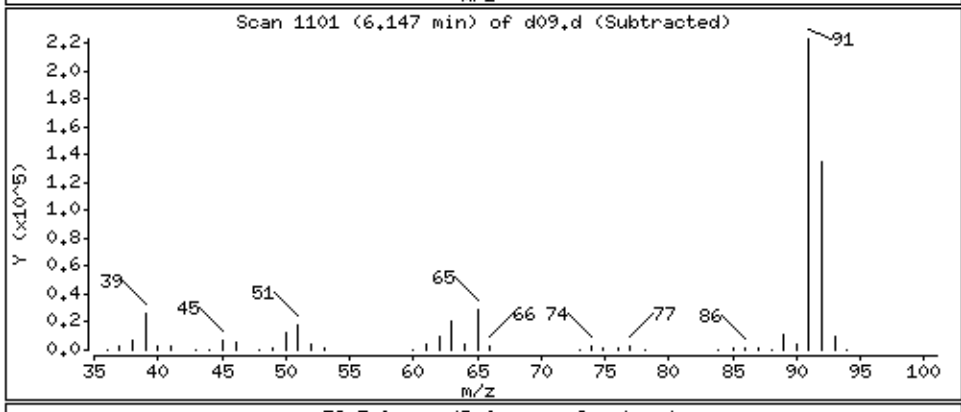
Column diameter: 0.18

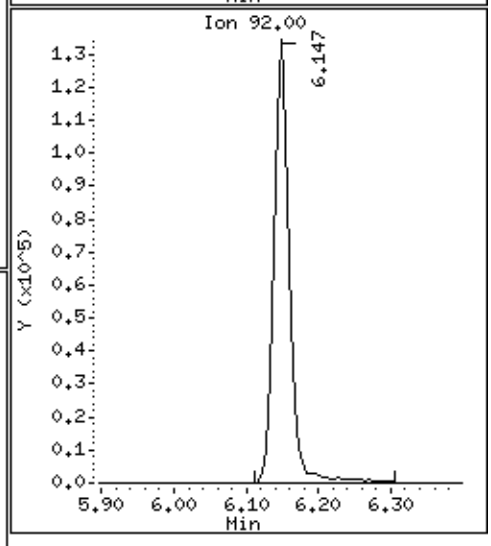
58 Toluene

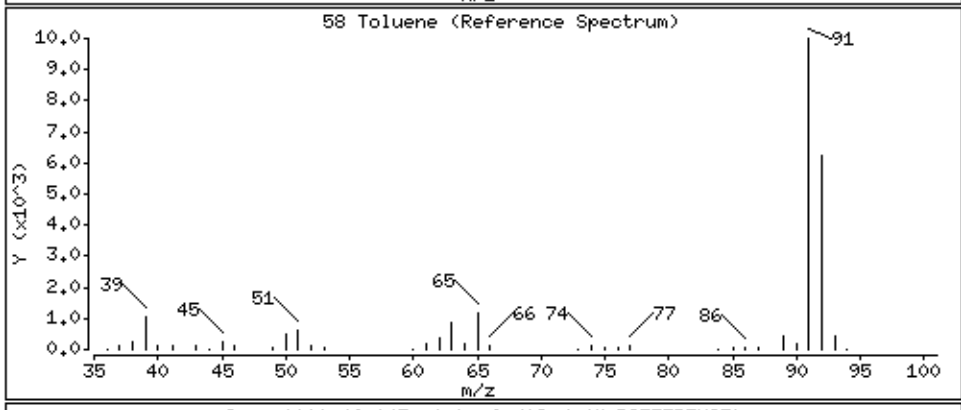
Concentration: 252 ppb

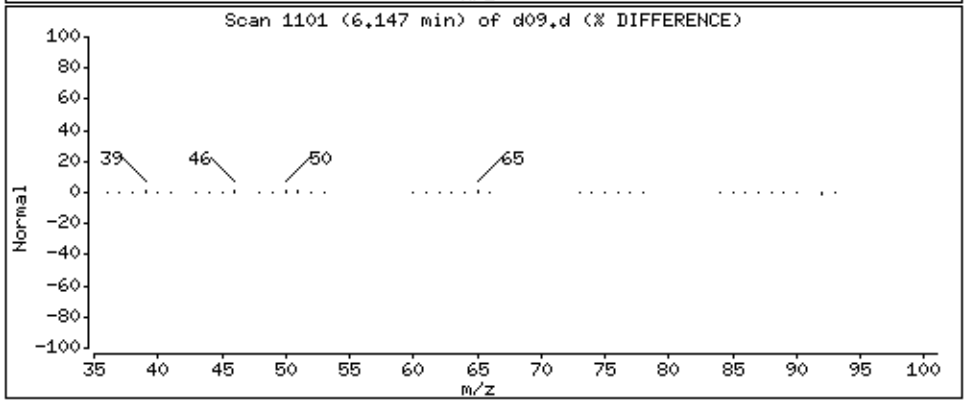












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

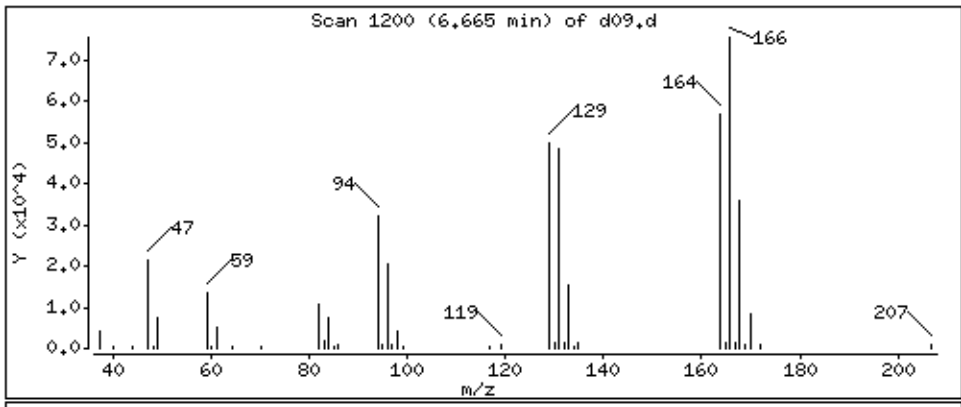
Operator: grm

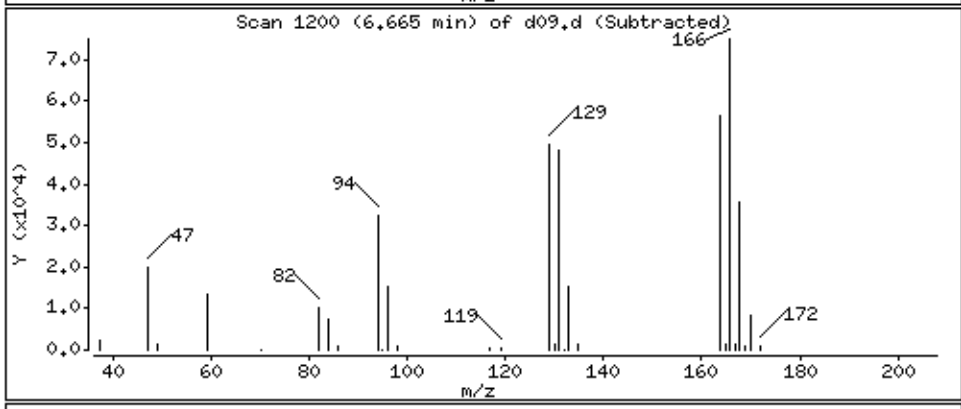
Column phase: DB-624

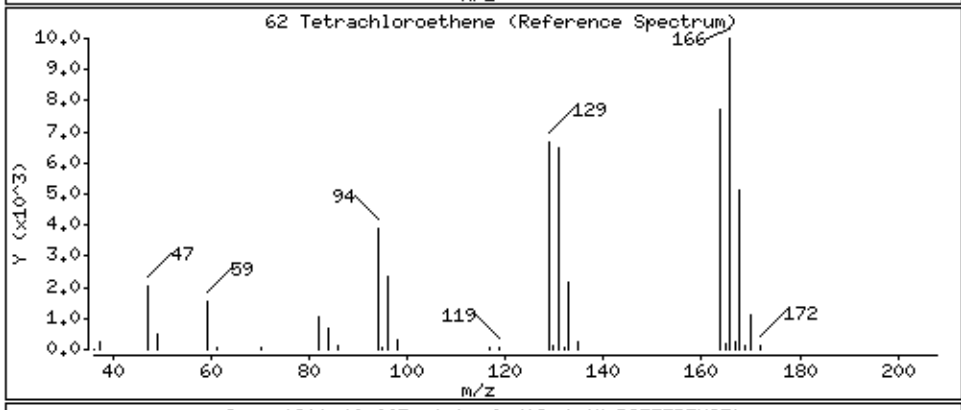
Column diameter: 0.18

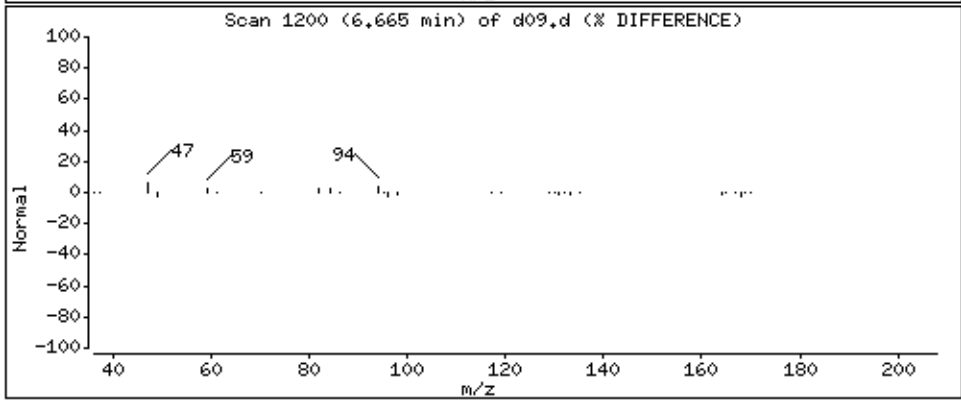
62 Tetrachloroethene

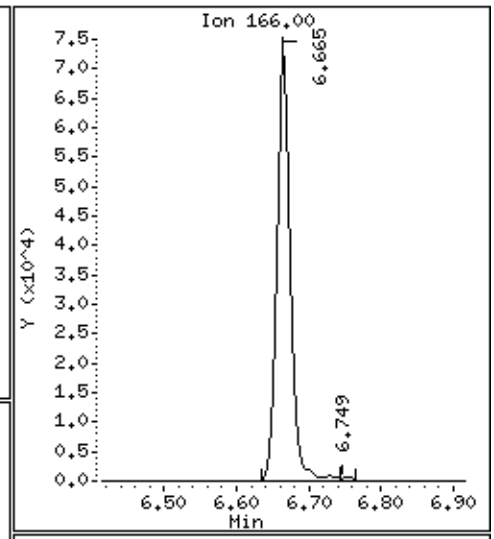
Concentration: 263 ppb

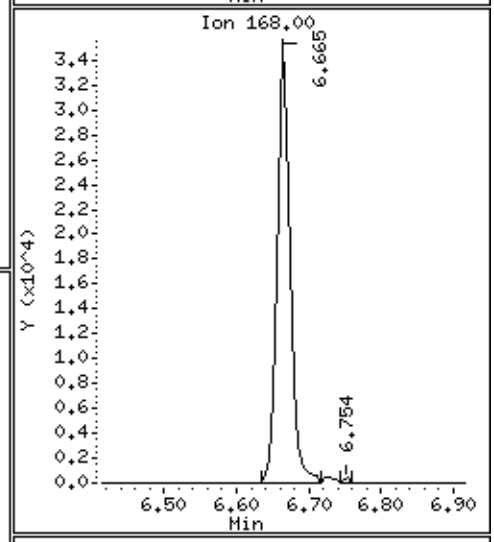


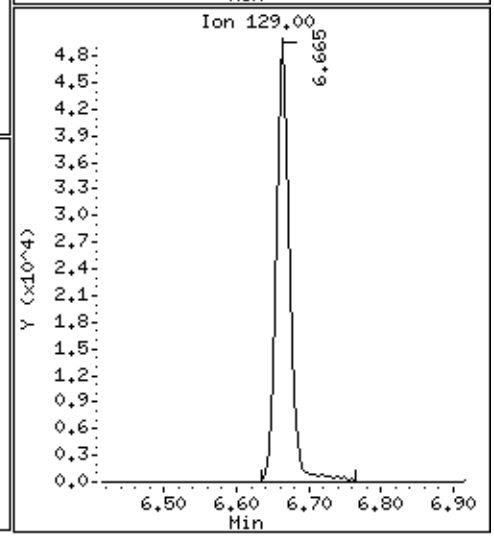












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

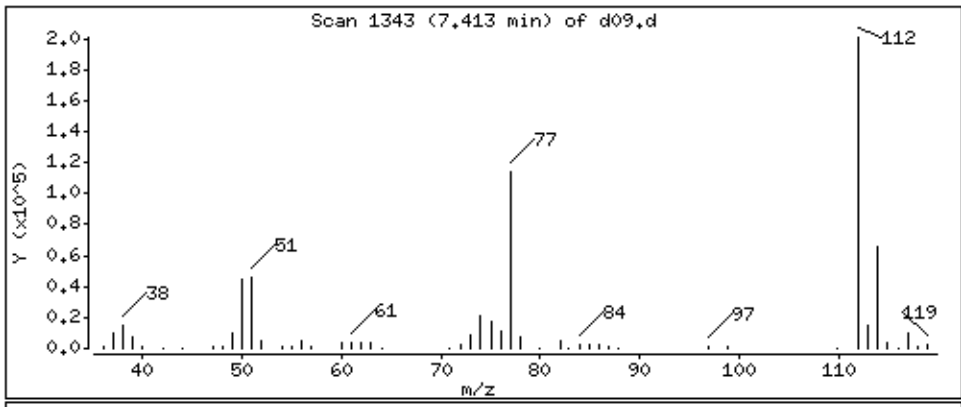
Operator: grm

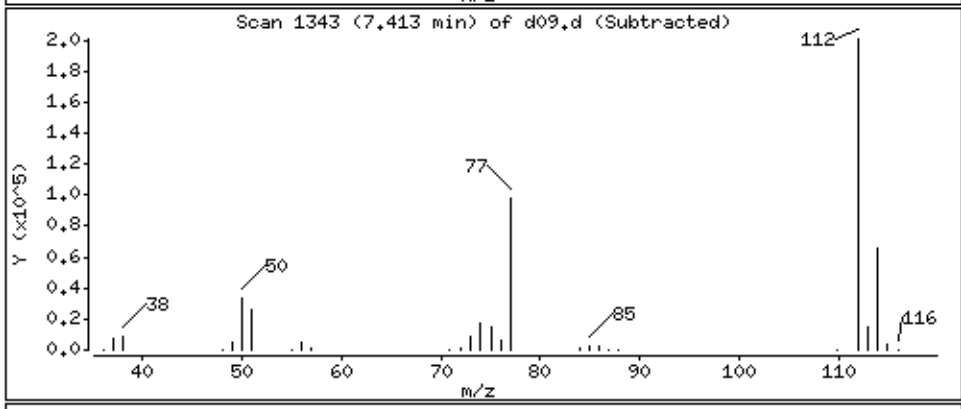
Column phase: DB-624

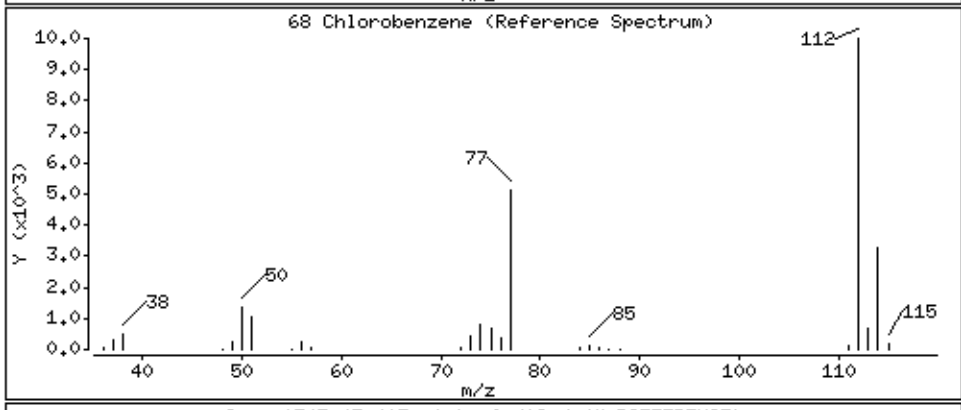
Column diameter: 0.18

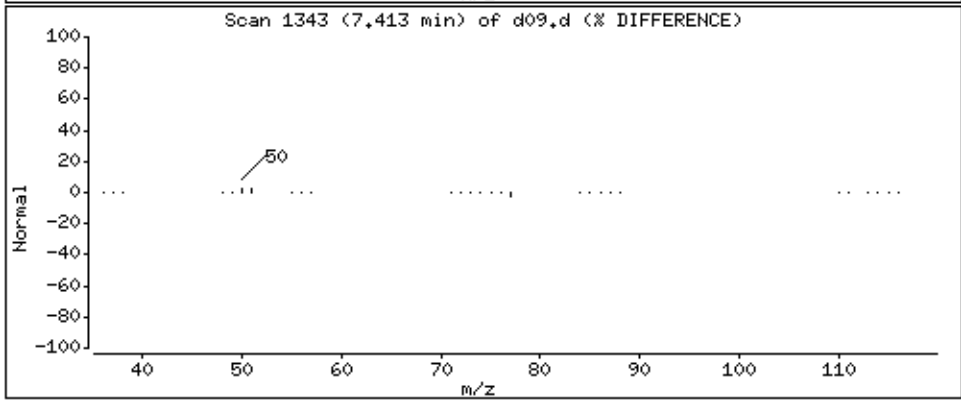
68 Chlorobenzene

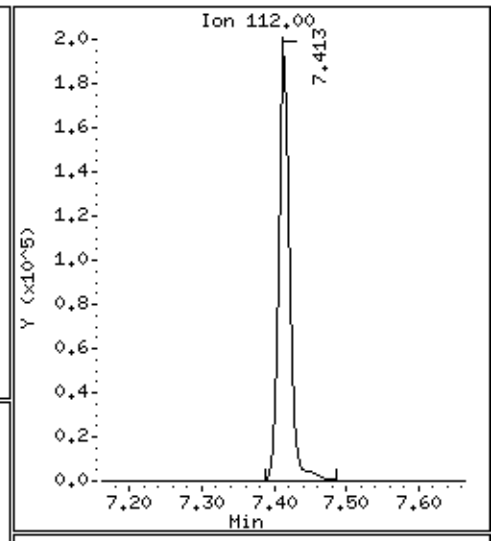
Concentration: 246 ppb

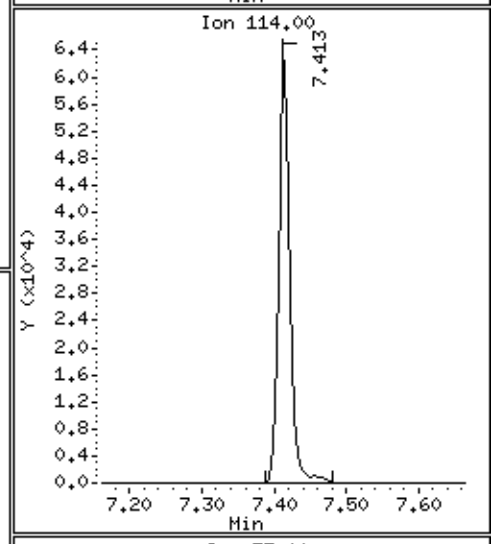


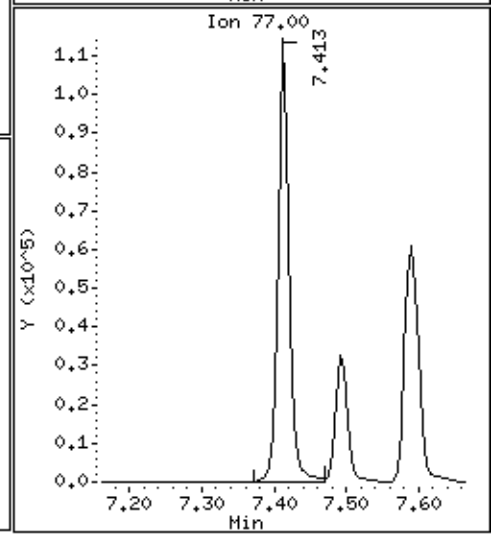












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

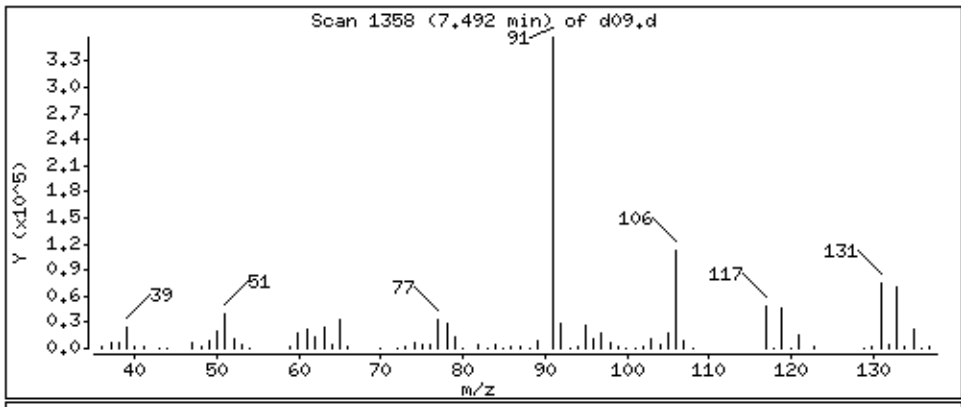
Operator: grm

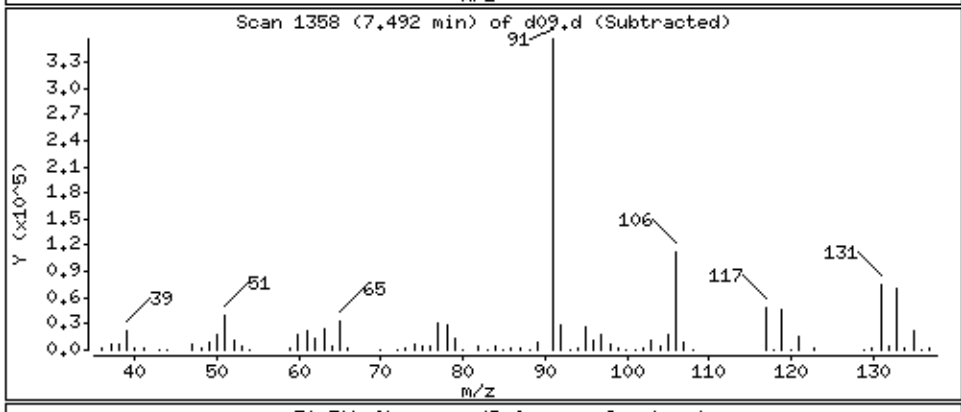
Column phase: DB-624

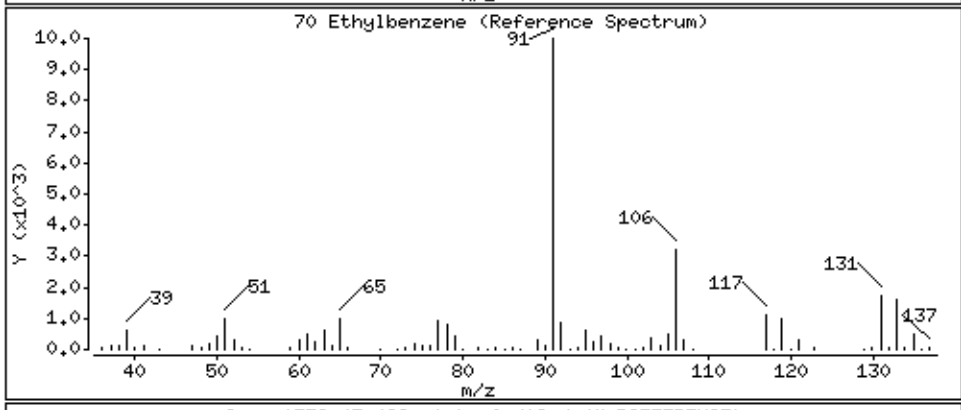
Column diameter: 0.18

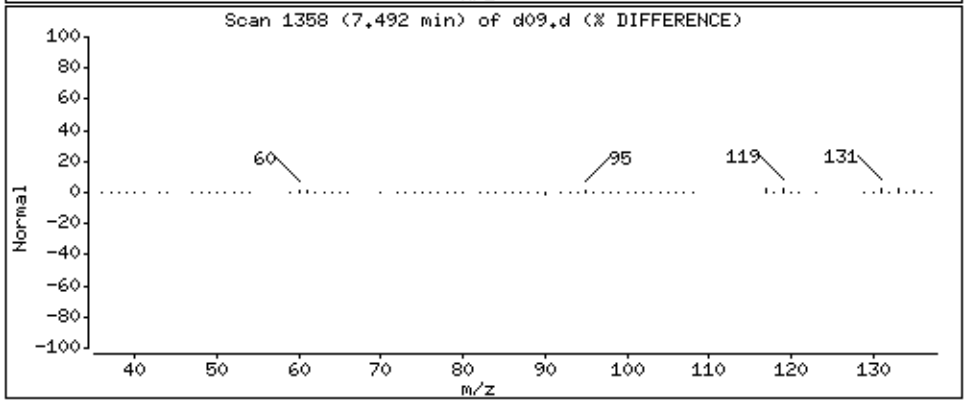
70 Ethylbenzene

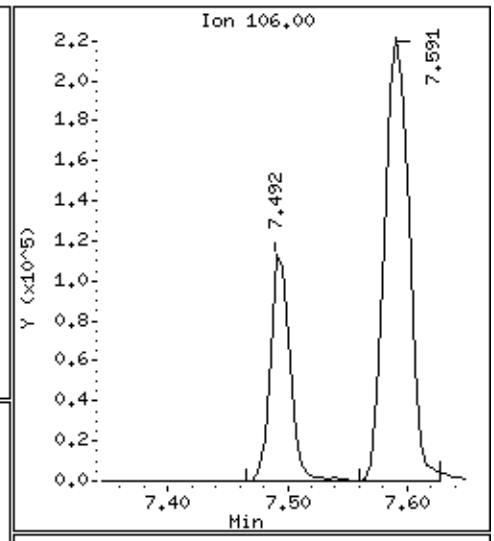
Concentration: 251 ppb

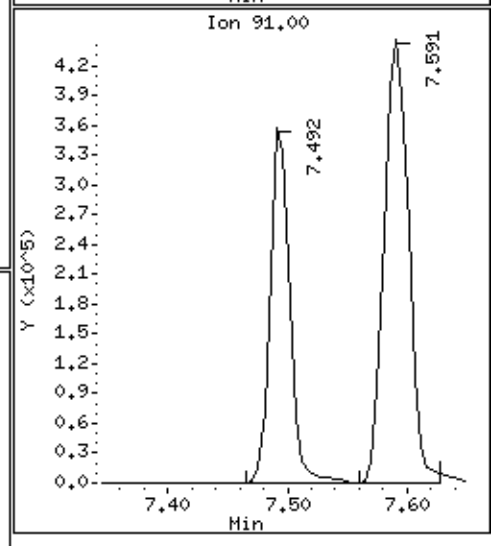












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

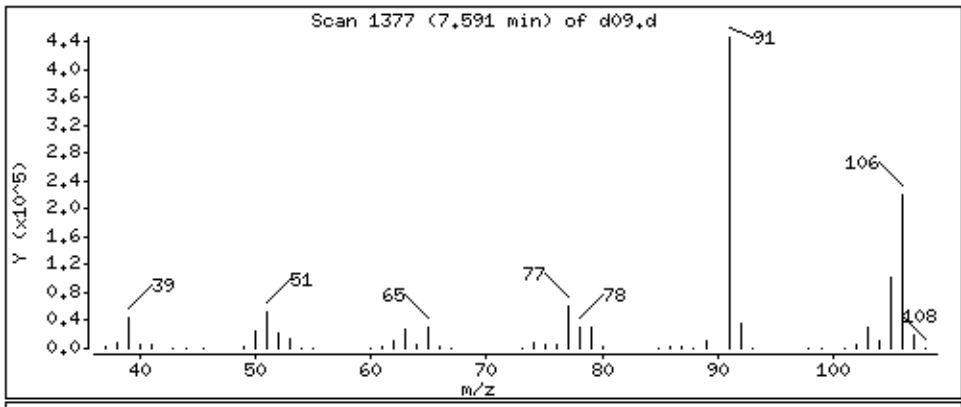
Operator: grm

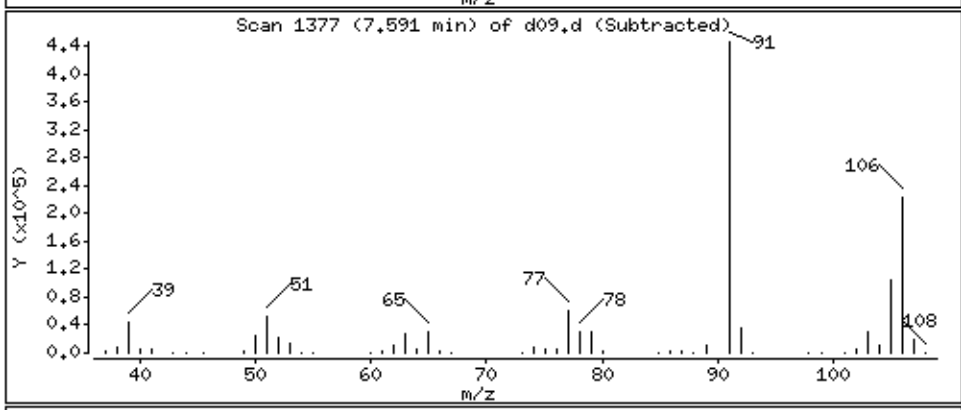
Column phase: DB-624

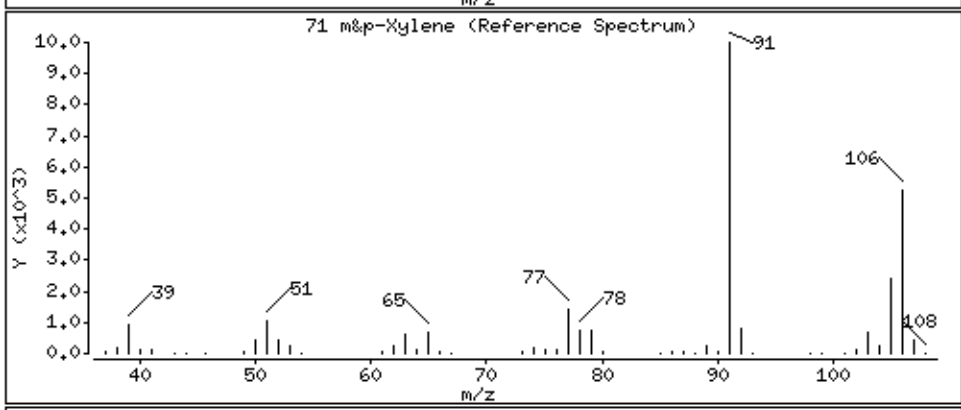
Column diameter: 0.18

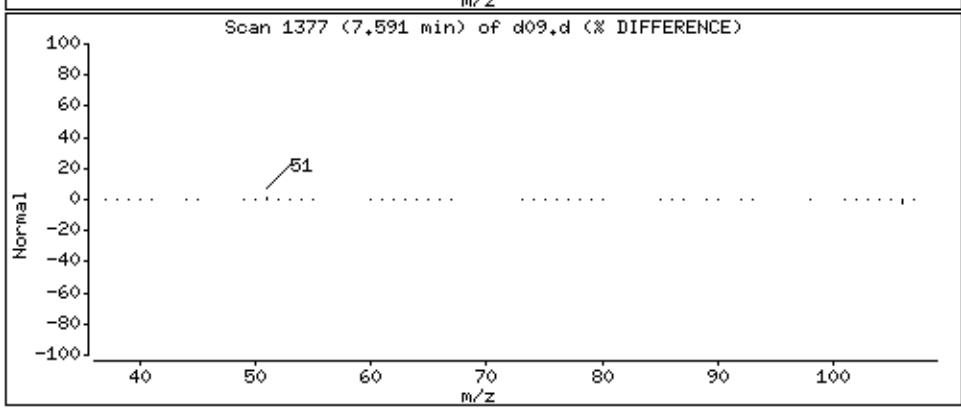
71 m&p-Xylene

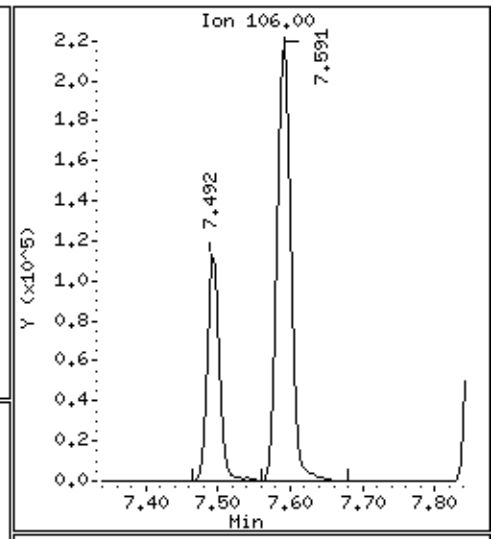
Concentration: 502 ppb

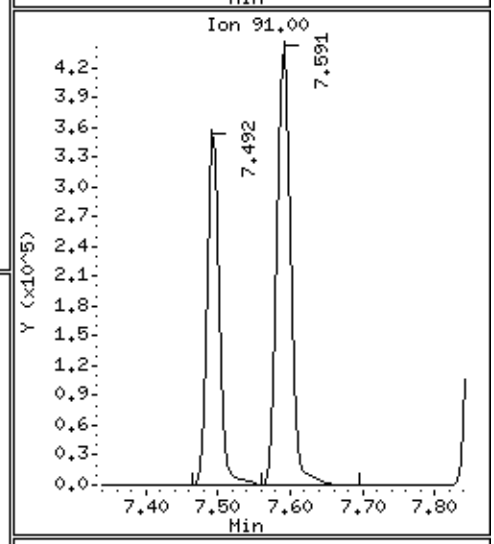


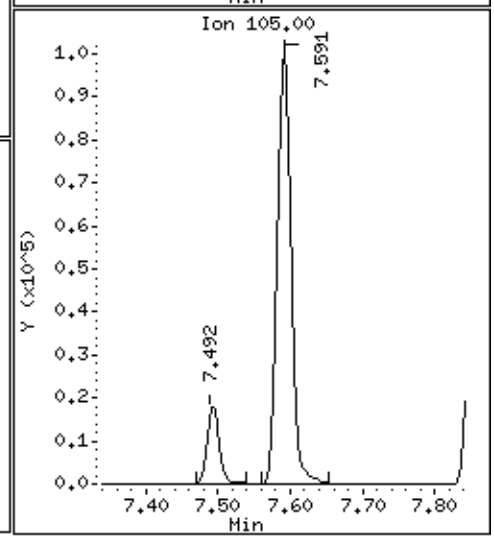












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

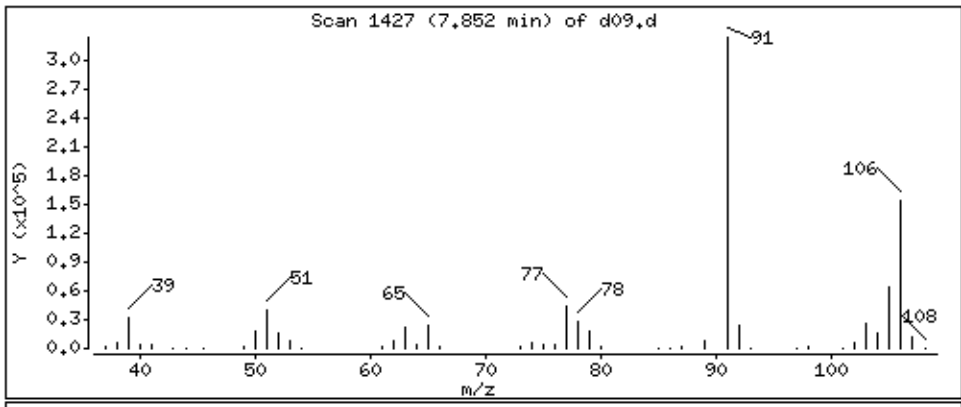
Operator: grm

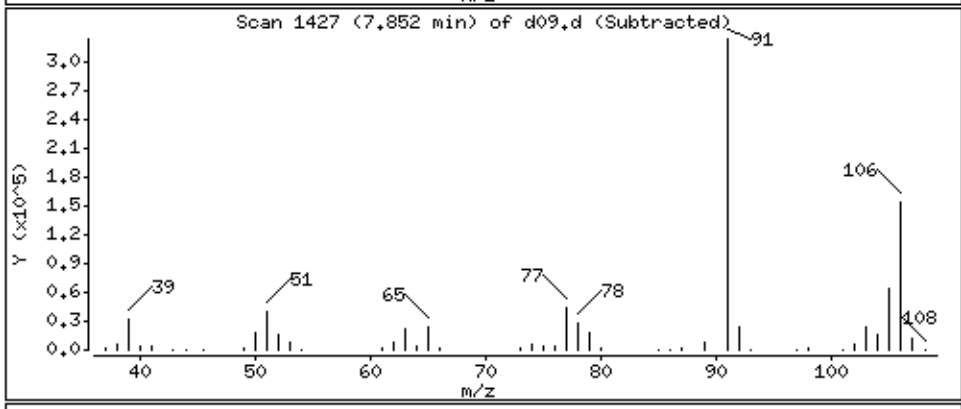
Column phase: DB-624

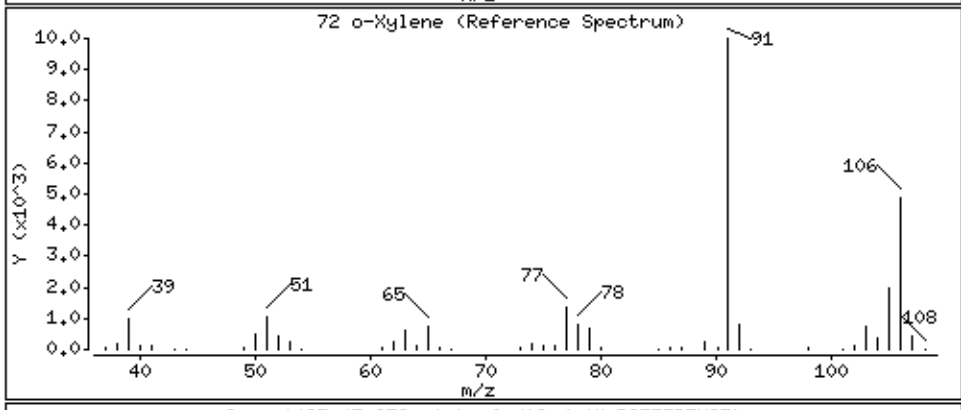
Column diameter: 0.18

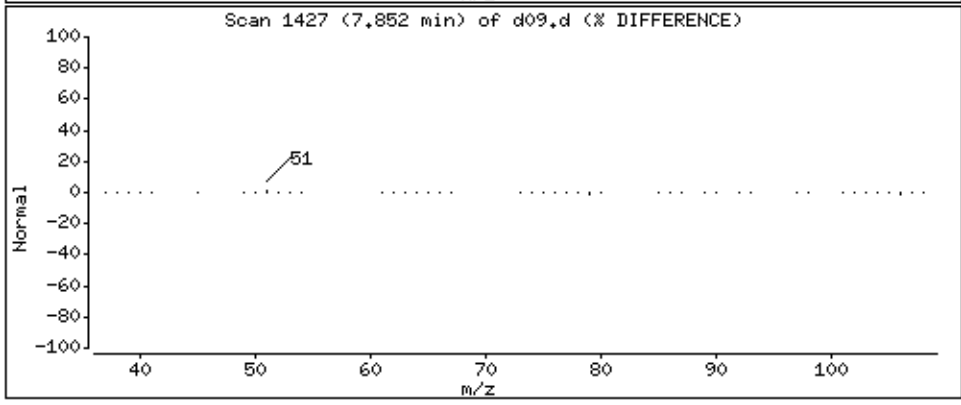
72 o-Xylene

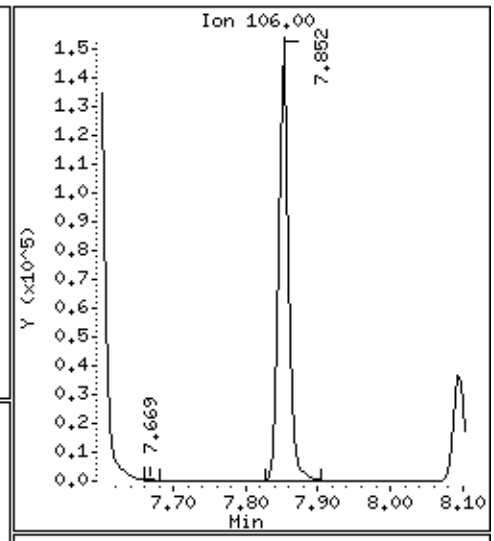
Concentration: 256 ppb

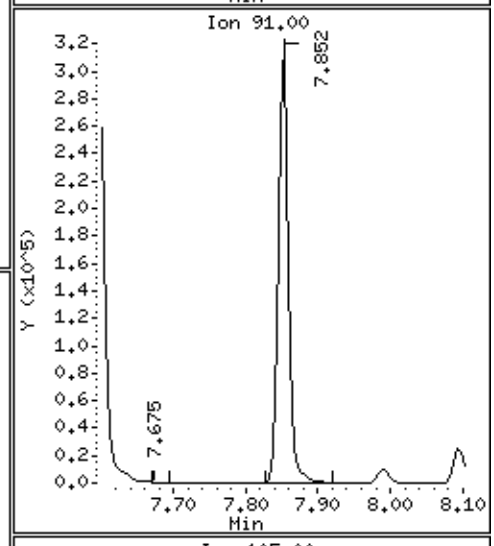


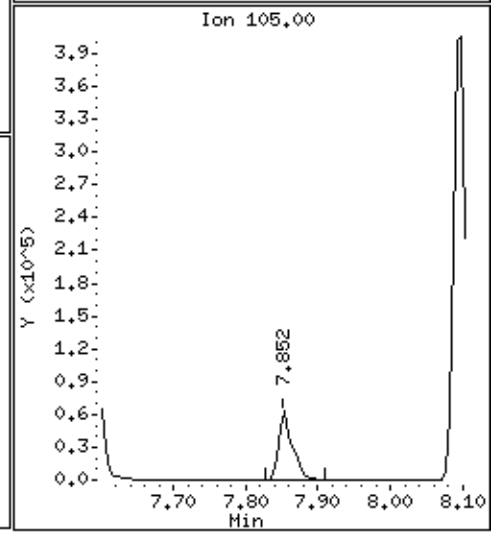












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

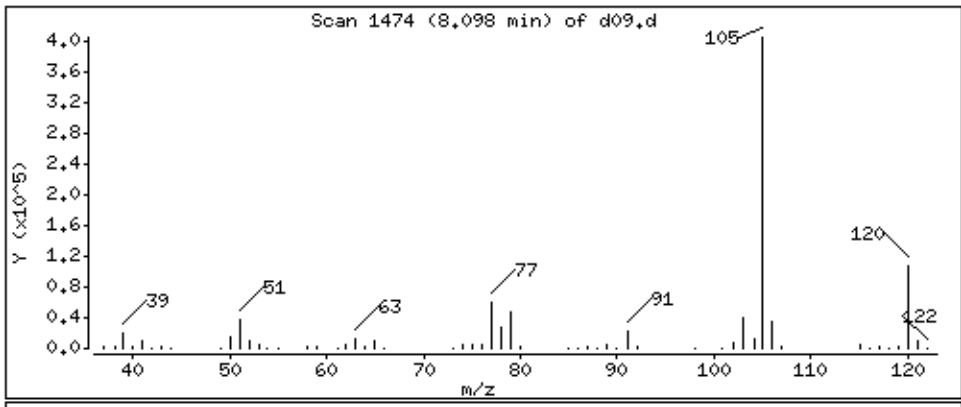
Operator: grm

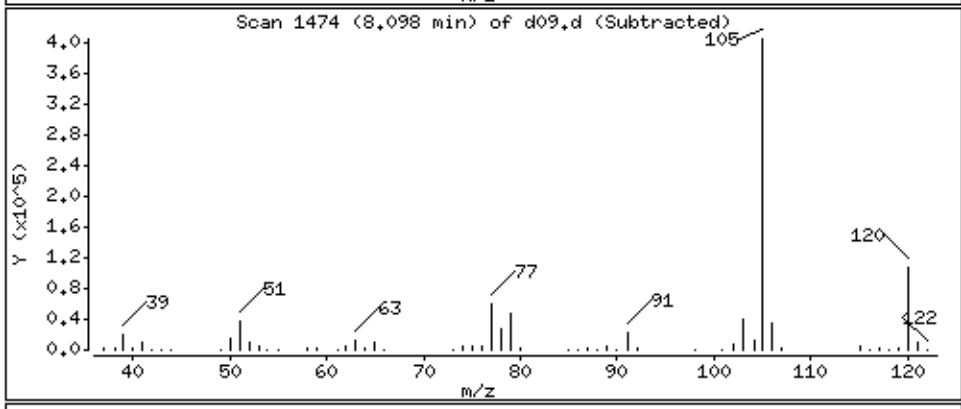
Column phase: DB-624

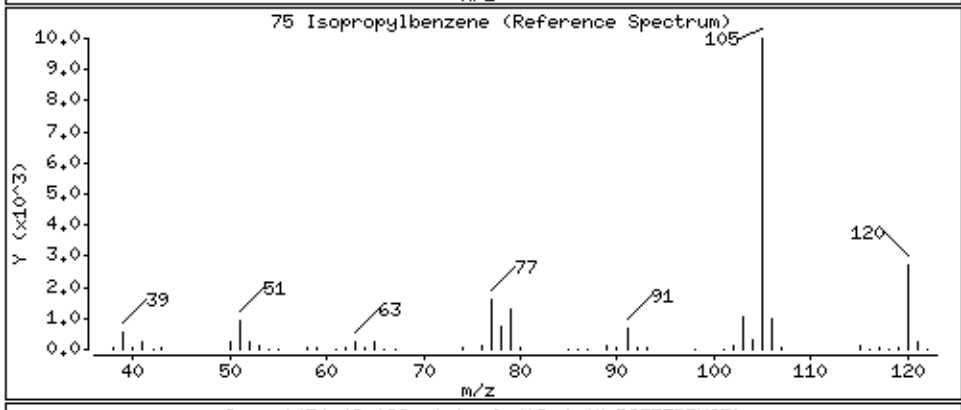
Column diameter: 0.18

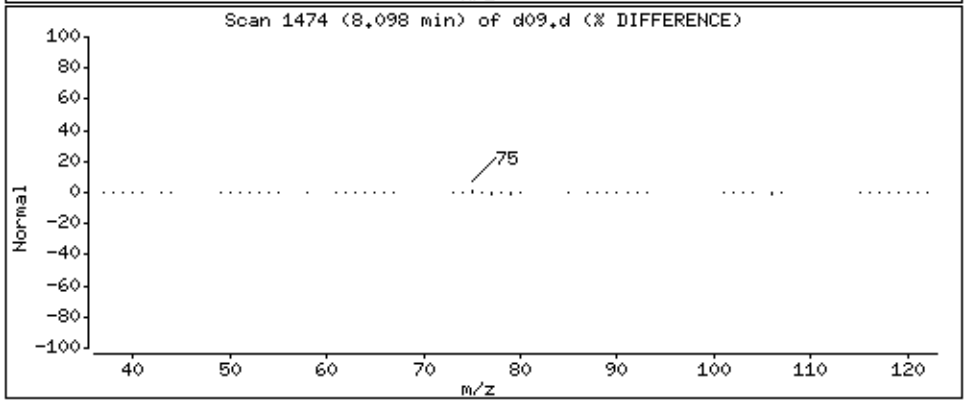
75 Isopropylbenzene

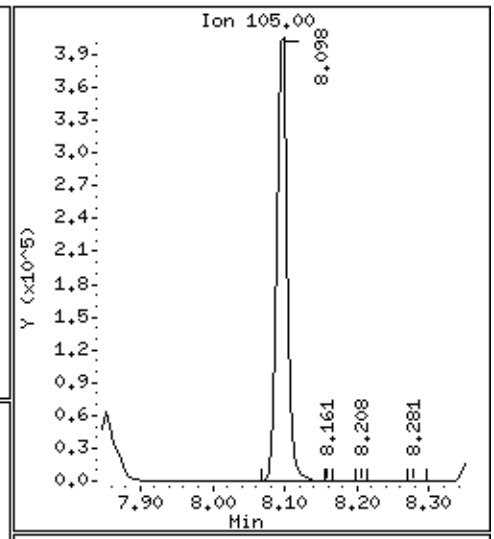
Concentration: 254 ppb

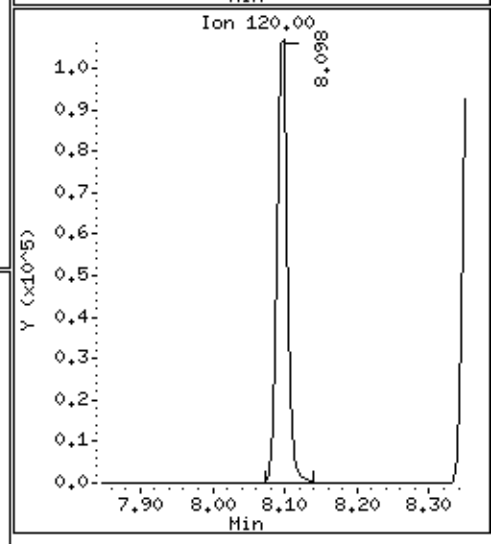












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Page 21

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

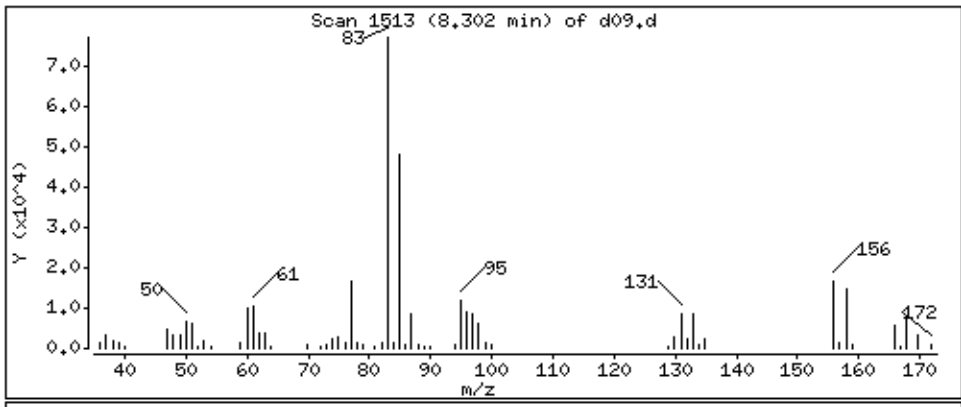
Operator: grm

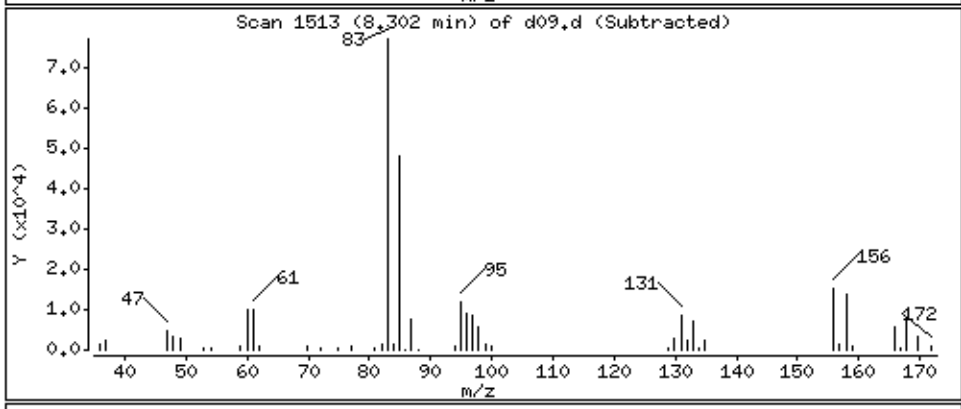
Column phase: DB-624

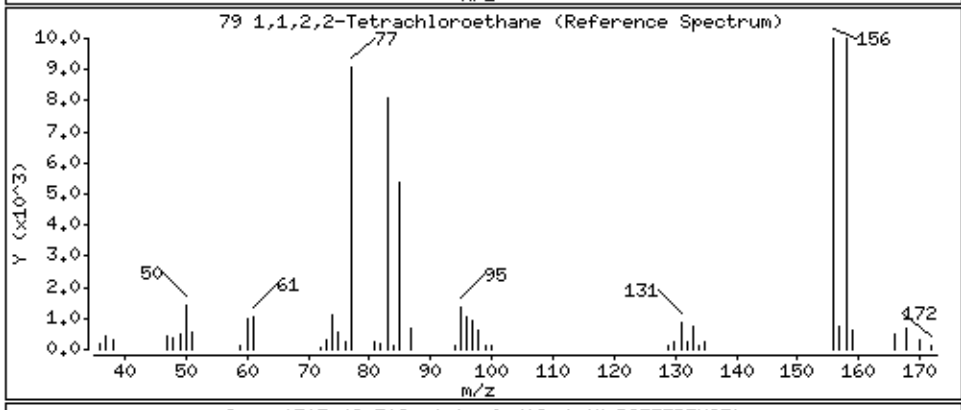
Column diameter: 0.18

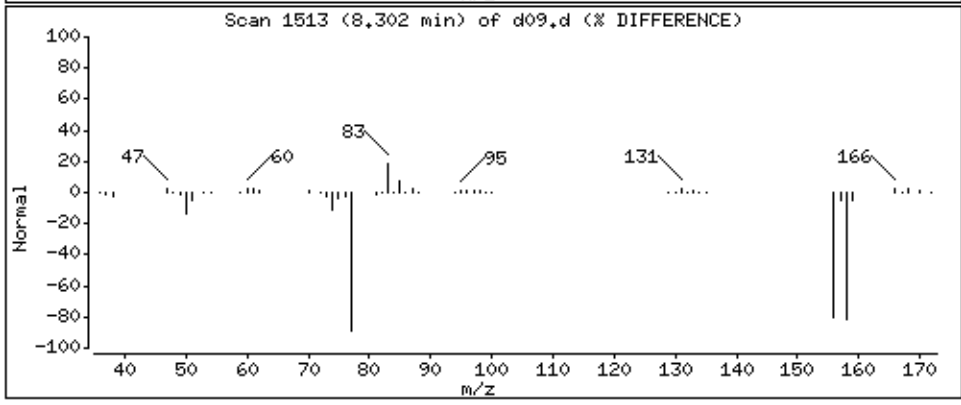
79 1,1,2,2-Tetrachloroethane

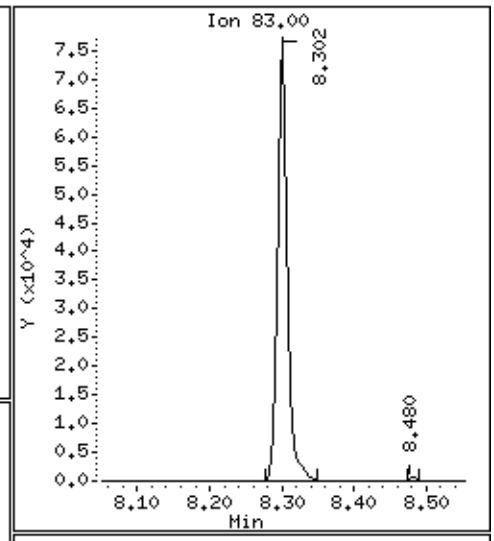
Concentration: 270 ppb

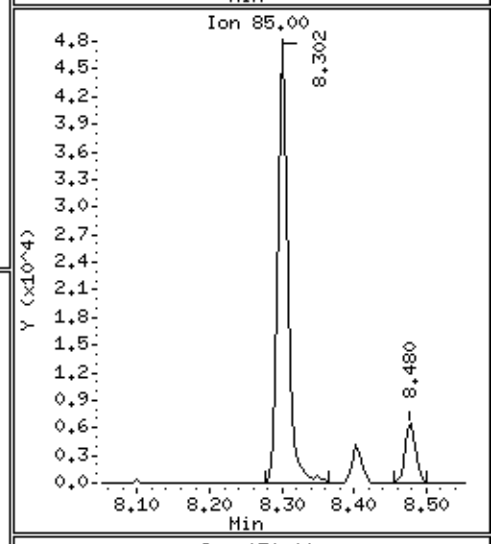


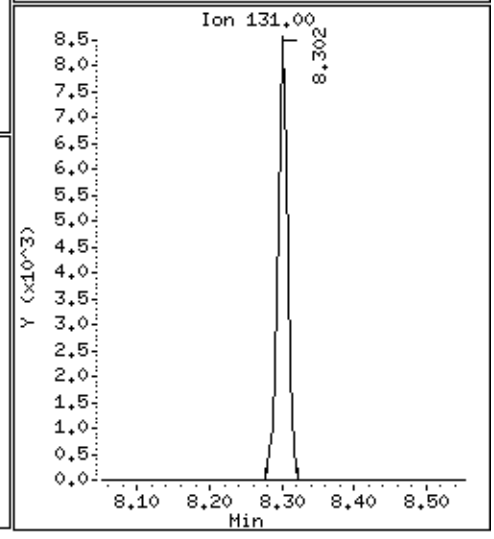












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

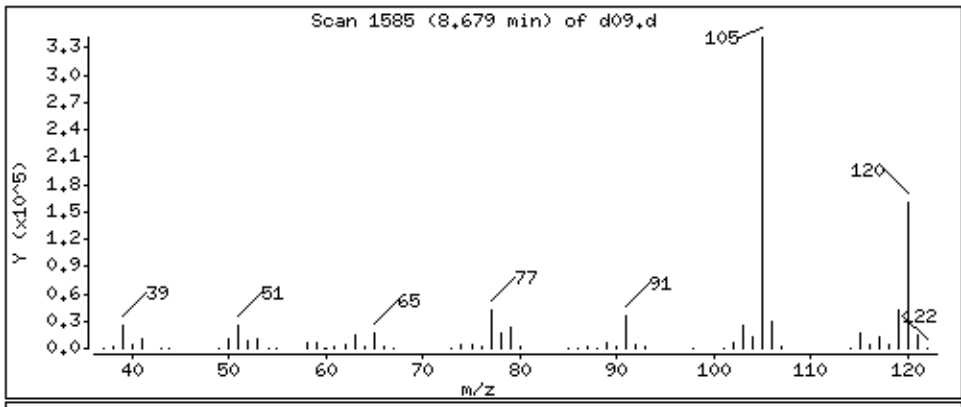
Operator: grm

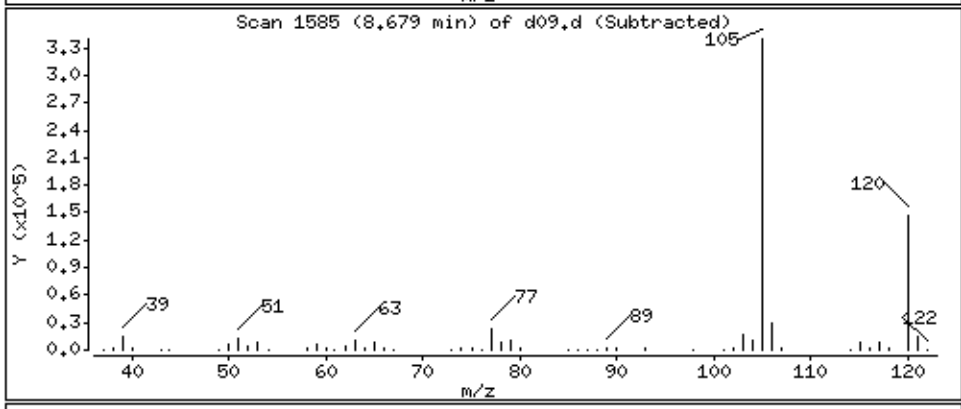
Column phase: DB-624

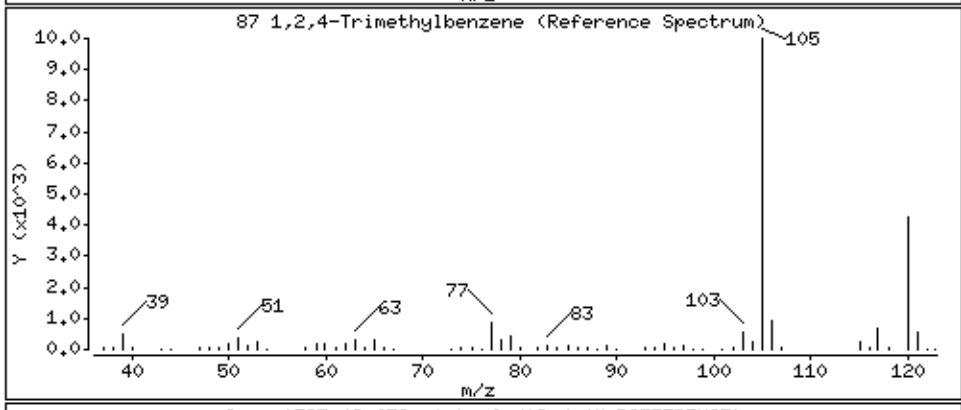
Column diameter: 0.18

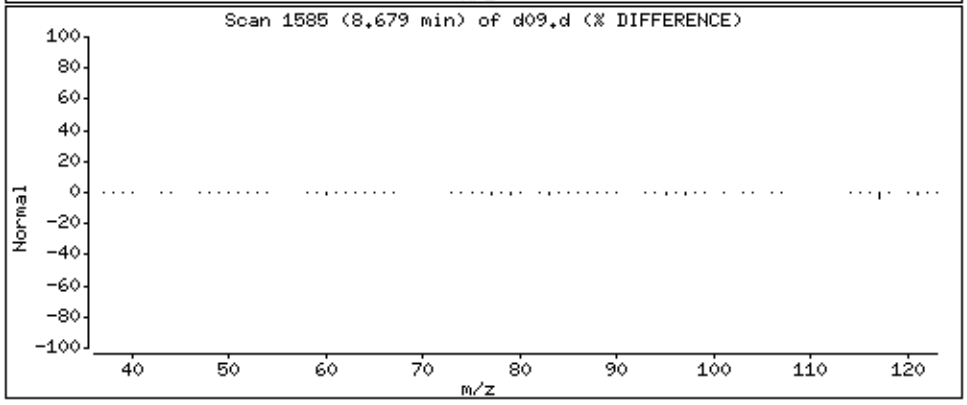
87 1,2,4-Trimethylbenzene

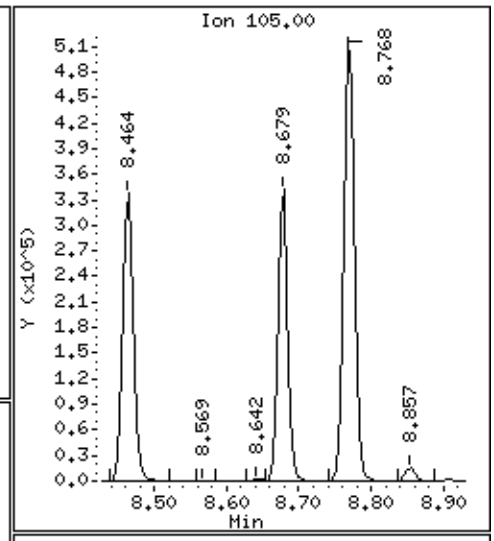
Concentration: 241 ppb

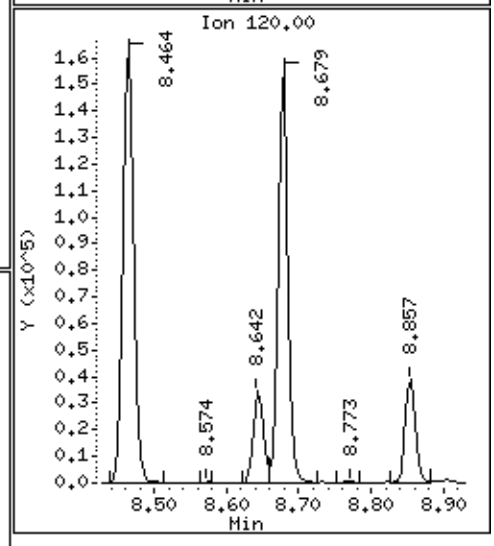












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d09.d

Date : 18-MAR-2016 05:16

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500386x5,117024:5

Purge Volume: 5.0

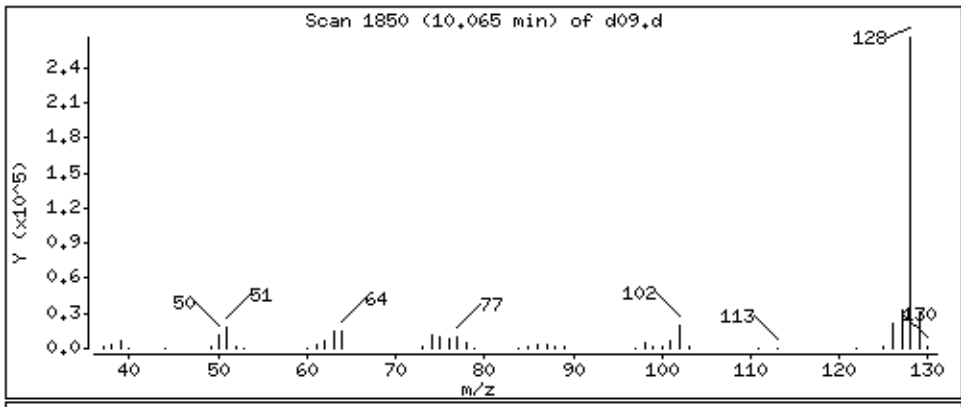
Operator: grm

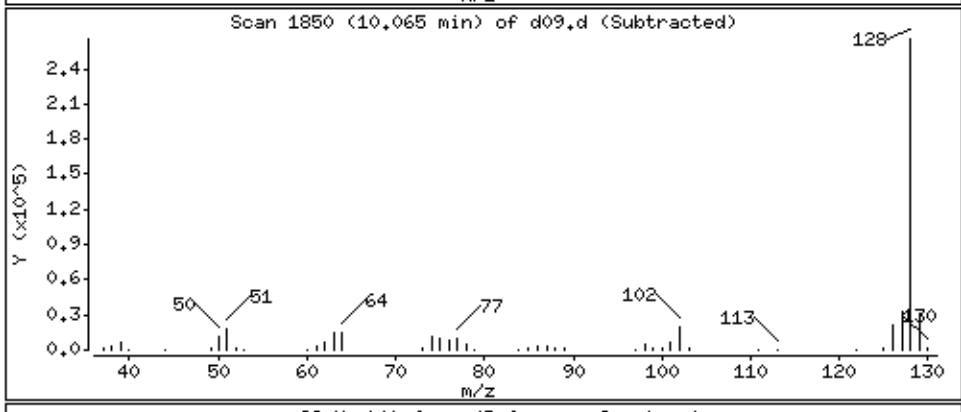
Column phase: DB-624

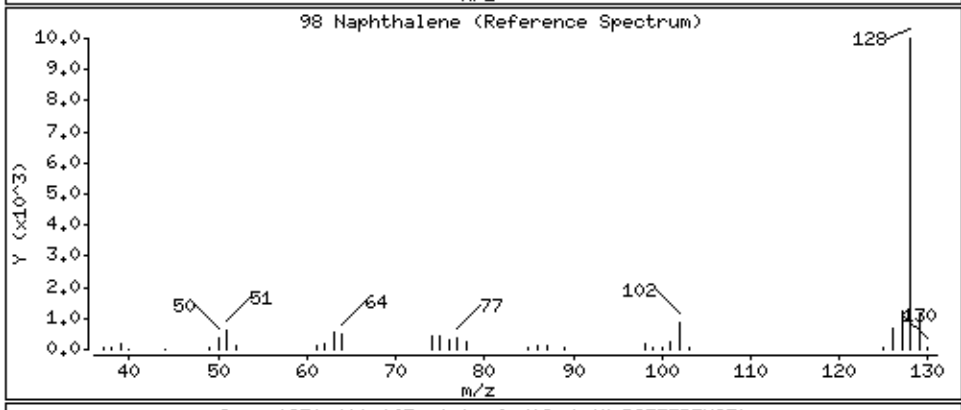
Column diameter: 0.18

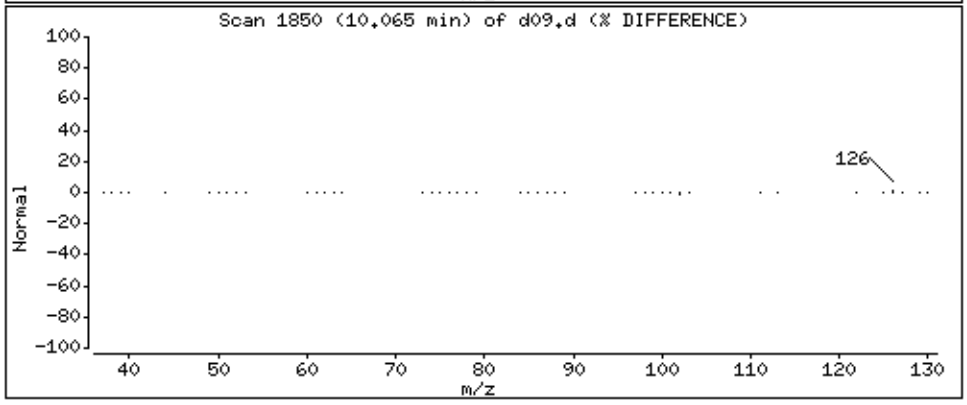
98 Naphthalene

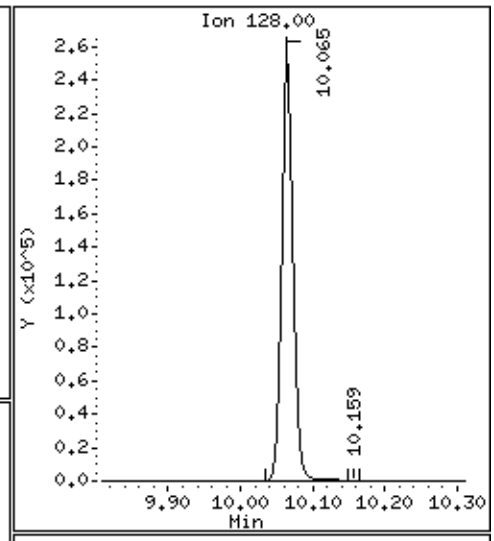
Concentration: 240 ppb

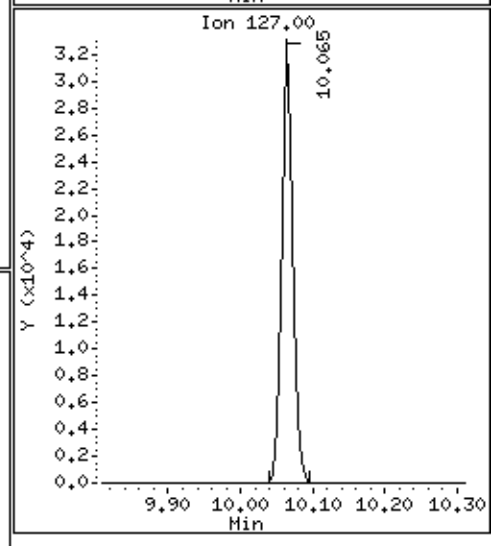












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d09.d
Injection Date: 18-MAR-2016 05:16
Instrument: 50mv1b.i
Lab Sample ID: 1500386
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: 03/10/2016 12:15 Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 05:51 Lab Sample ID: 1500387

Date Analyzed: 03/18/2016 05:51 Lab File ID: B031716.B\D10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 5 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	274	
108-90-7	Chlorobenzene	259	
67-66-3	Chloroform	268	
75-35-4	1,1-Dichloroethene	280	
156-59-2	cis-1,2-Dichloroethene	392	
156-60-5	trans-1,2-Dichloroethene	299	
78-87-5	1,2-Dichloropropane	264	
100-41-4	Ethylbenzene	259	
98-82-8	Isopropylbenzene (Cumene)	263	
1634-04-4	Methyl-tert-butyl ether	272	
79-34-5	1,1,2,2-Tetrachloroethane	276	
127-18-4	Tetrachloroethene	276	
108-88-3	Toluene	259	
71-55-6	1,1,1-Trichloroethane	265	
79-01-6	Trichloroethene	2990	
75-01-4	Vinyl chloride	266	
1330-20-7	Xylene (Total)	787	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d
Lab Smp Id: 1500387 Client Smp ID: MW-0621-S1(030916)M
Inj Date : 18-MAR-2016 05:51
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1500387x5,117024:5
Misc Info : 88040,8260ss
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031716.b\b8260_a_c.m
Meth Date : 20-Mar-2016 19:00 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 83 QC Sample: MSD
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

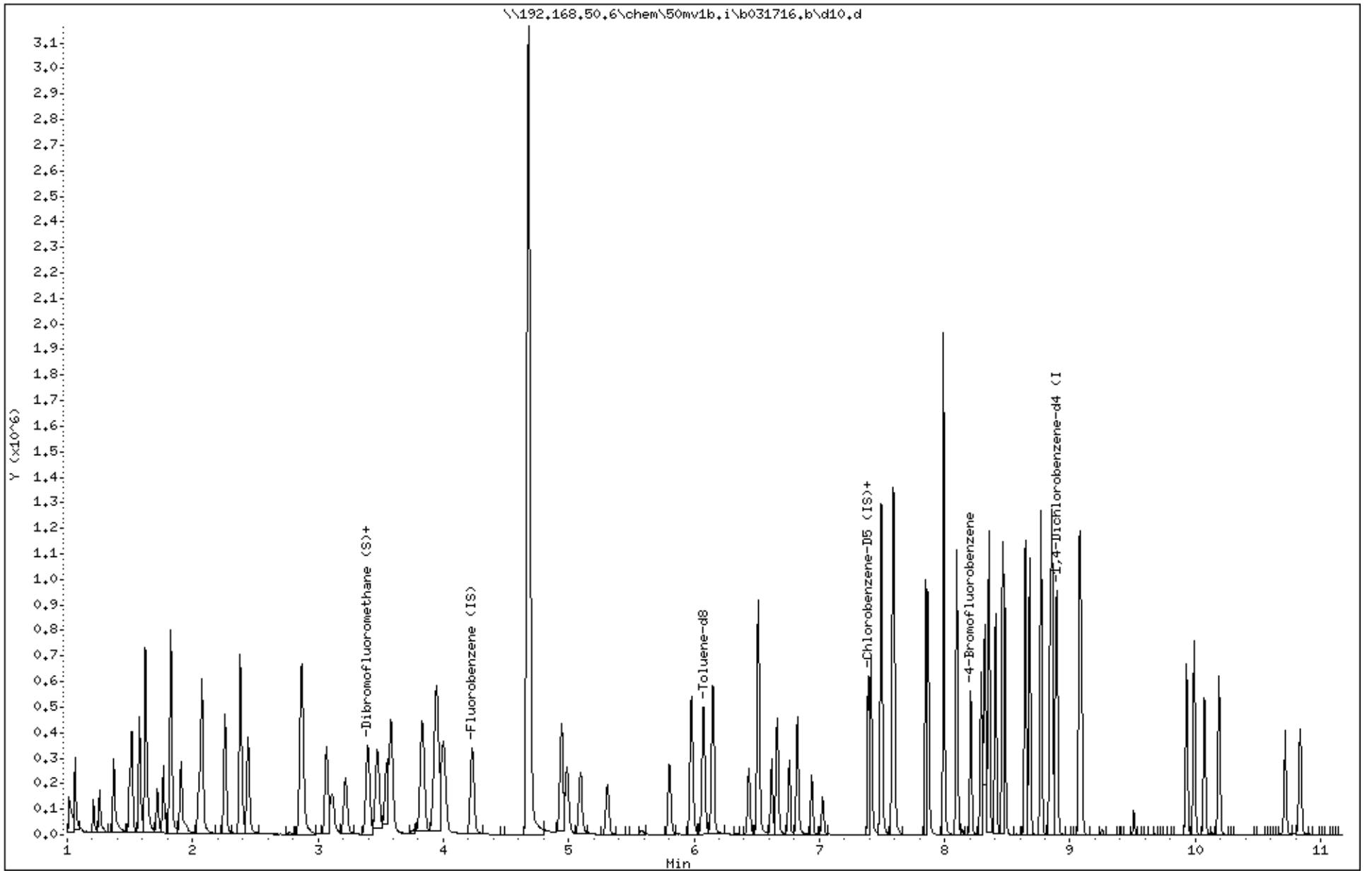
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.062	1.062	(0.251)	161116	53.1600	266(R)	
	11 1,1-Dichloroethene	96	1.627	1.627	(0.385)	85515	55.9094	280(R)	
	21 Methyl-tert-butyl ether	73	2.067	2.067	(0.488)	228142	54.3058	272(R)	
	22 1,2-Dichloroethene (trans)	96	2.077	2.077	(0.491)	104450	59.8814	299(R)	
	29 1,2-Dichloroethene (cis)	96	2.872	2.872	(0.679)	142380	78.3872	392(R)	
	35 Chloroform	83	3.217	3.222	(0.760)	174360	53.6572	268(R)	
	37 1,1,1-Trichloroethane	97	3.395	3.395	(0.802)	155233	52.9458	265(R)	
$	38 Dibromofluoromethane (S)	113	3.395	3.400	(0.802)	84556	49.2782	49.3	
	42 Benzene	78	3.834	3.834	(0.906)	367962	54.8026	274(R)	
*	46 Fluorobenzene (IS)	96	4.232	4.232	(1.000)	330432	50.0000		
	47 Trichloroethene	95	4.682	4.682	(1.106)	1055920	597.914	2990(R)	
	49 1,2-Dichloropropane	63	4.985	4.990	(1.178)	91885	52.8247	264(R)	
$	57 Toluene-d8	98	6.073	6.073	(0.822)	306107	50.5787	50.6	
	58 Toluene	91	6.146	6.146	(0.832)	384677	51.8217	259(R)	
	62 Tetrachloroethene	166	6.664	6.664	(0.902)	111413	55.1461	276(R)	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.391	(1.000)	233083	50.0000		
	68 Chlorobenzene	112	7.412	7.412	(1.003)	248004	51.8934	259(R)	
	70 Ethylbenzene	106	7.496	7.495	(1.014)	135735	51.7522	259(R)	
	71 m&p-Xylene	106	7.590	7.590	(1.027)	340855	103.813	519(R)	
	72 o-Xylene	106	7.851	7.851	(1.062)	172068	53.5372	268(R)	
	75 Isopropylbenzene	105	8.097	8.097	(1.096)	476957	52.6623	263(R)	
$	76 4-Bromofluorobenzene	95	8.207	8.207	(1.110)	111953	52.9108	52.9	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.301	(0.934)	85789	55.2075	276(R)	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.678	8.677	(0.976)	378897	50.7122	254(R)	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.881	(1.000)	129369	50.0000		
98 Naphthalene	128	10.074	10.058	(1.134)	325128	49.1733	246(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d
Date : 18-MAR-2016 05:51
Client ID: MW-0621-S1(030916)M
Instrument: 50mv1b.i
Sample Info: 1500387x5,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

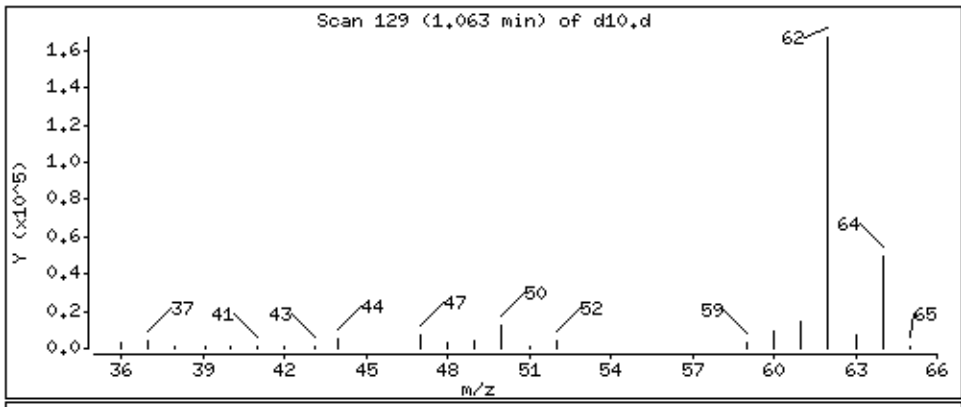
Operator: grm

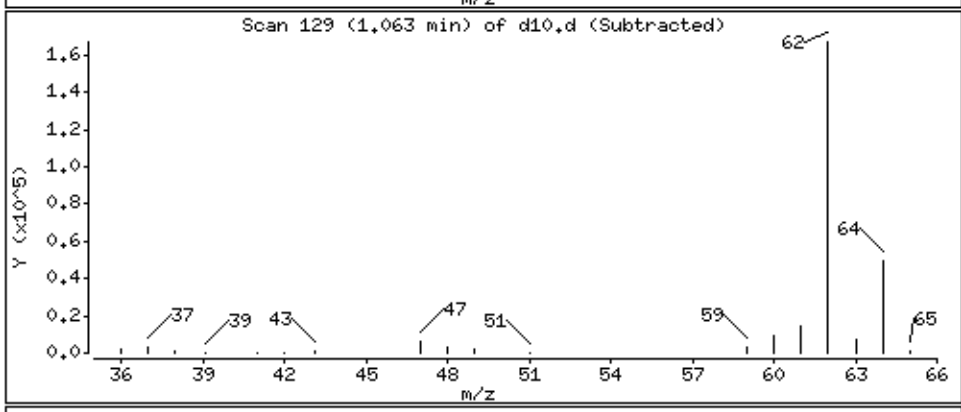
Column phase: DB-624

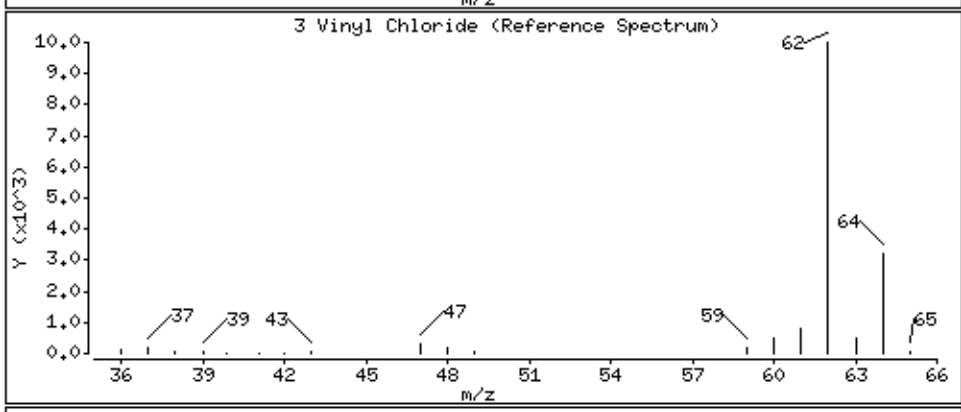
Column diameter: 0.18

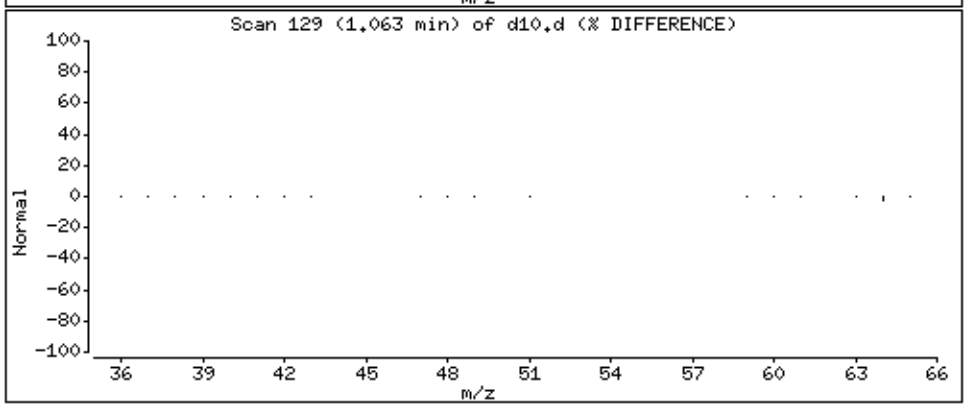
3 Vinyl Chloride

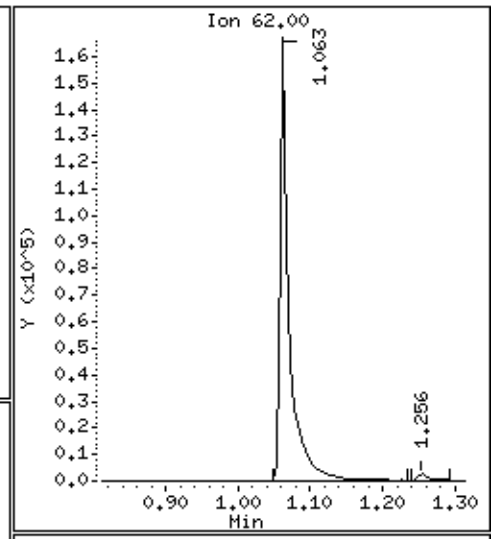
Concentration: 266 ppb

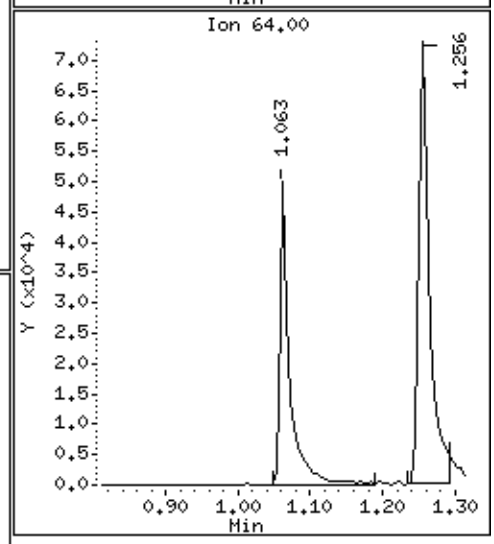












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

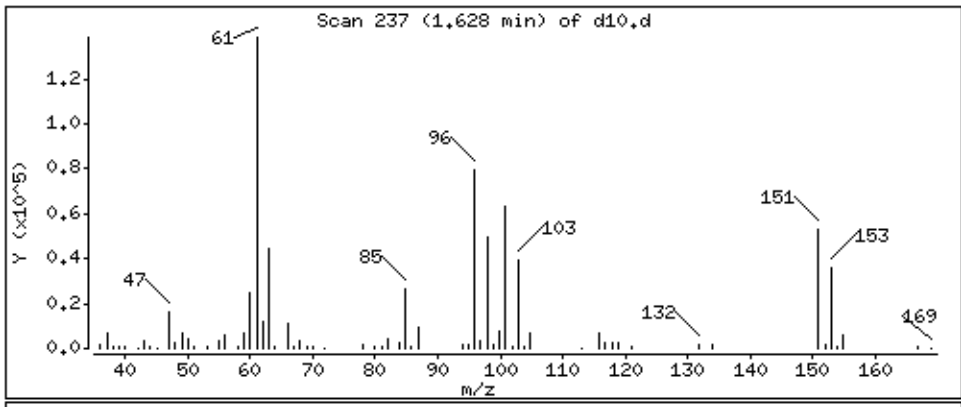
Operator: grm

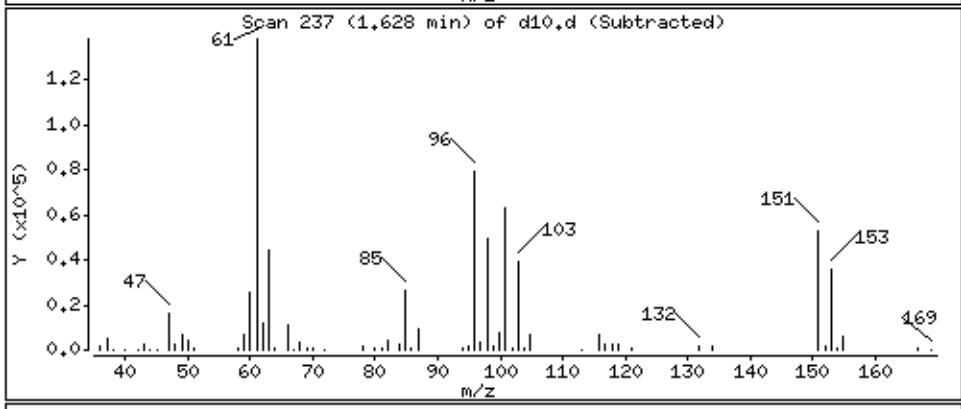
Column phase: DB-624

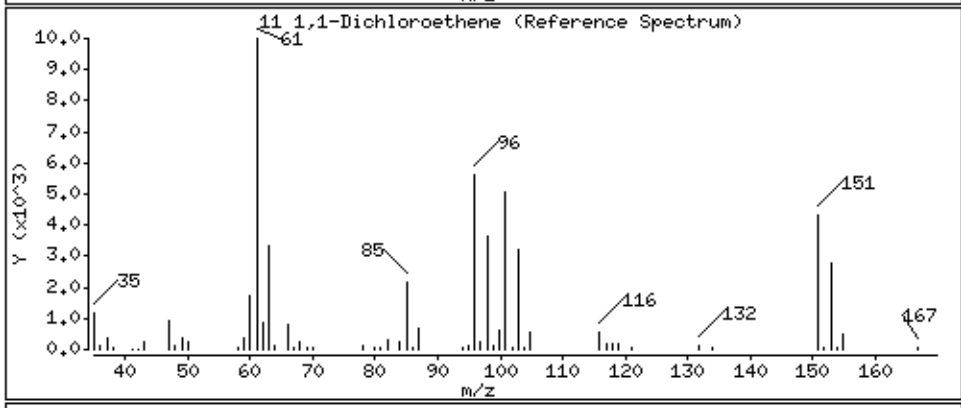
Column diameter: 0.18

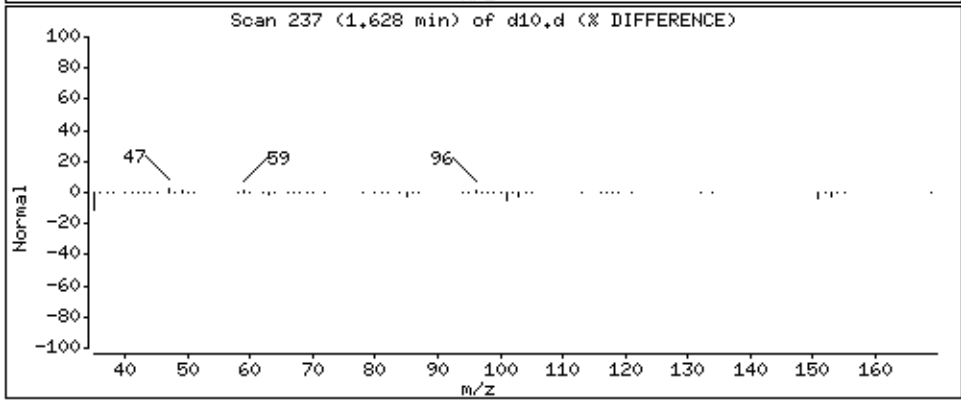
11 1,1-Dichloroethene

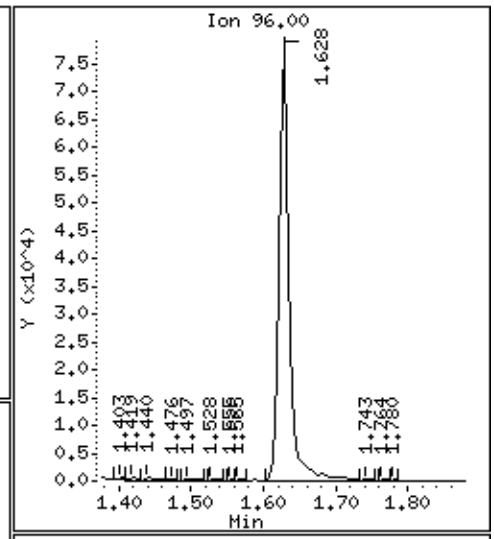
Concentration: 280 ppb

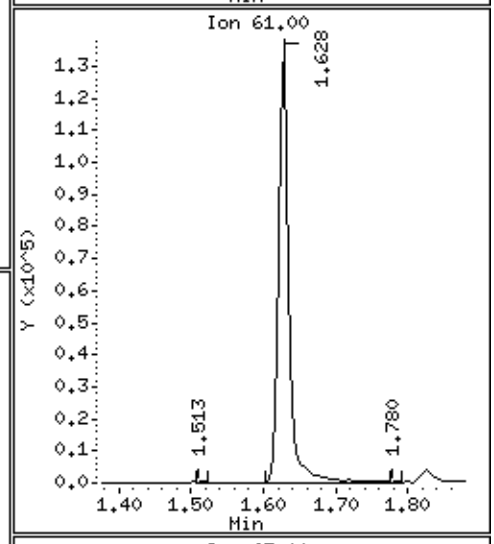


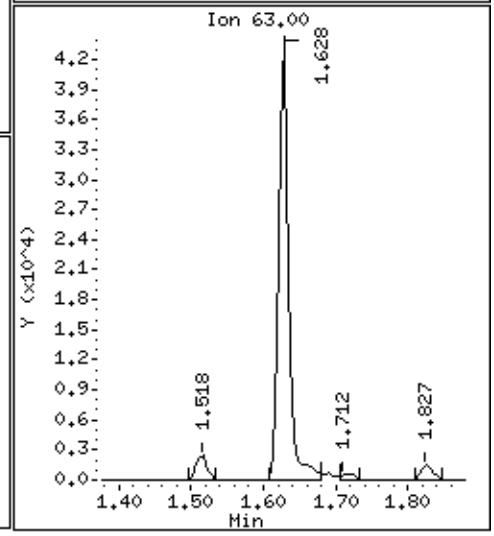












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

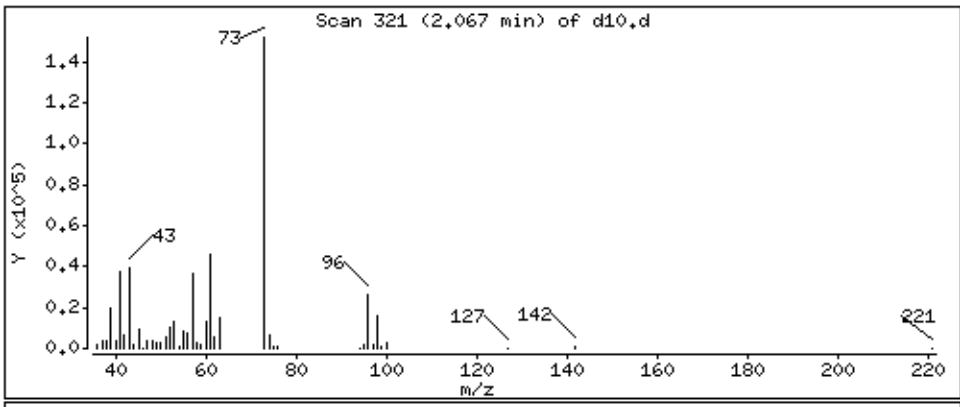
Operator: grm

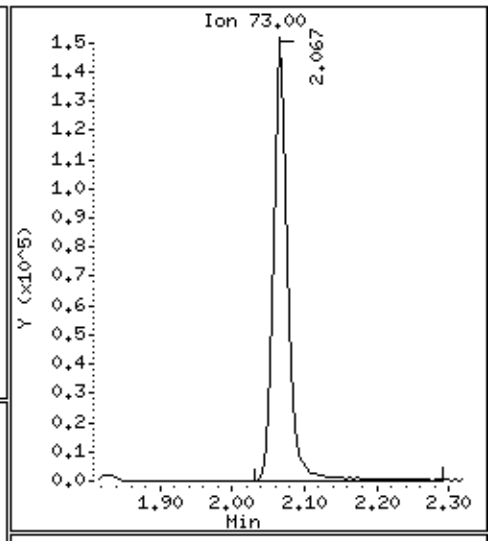
Column phase: DB-624

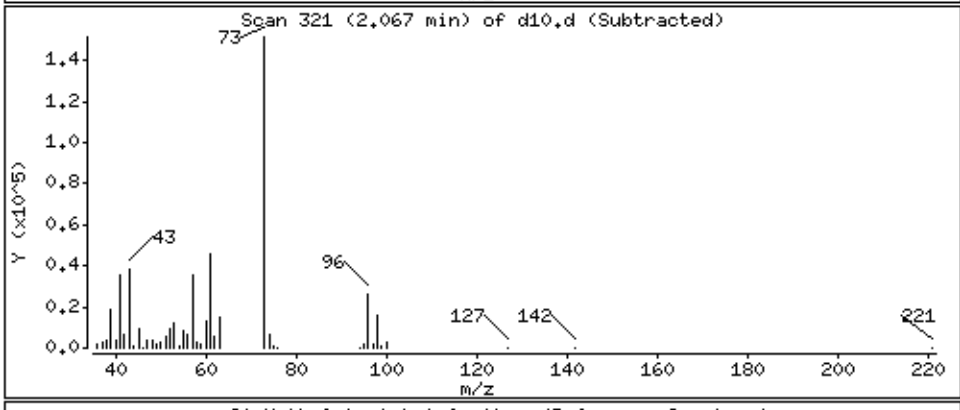
Column diameter: 0.18

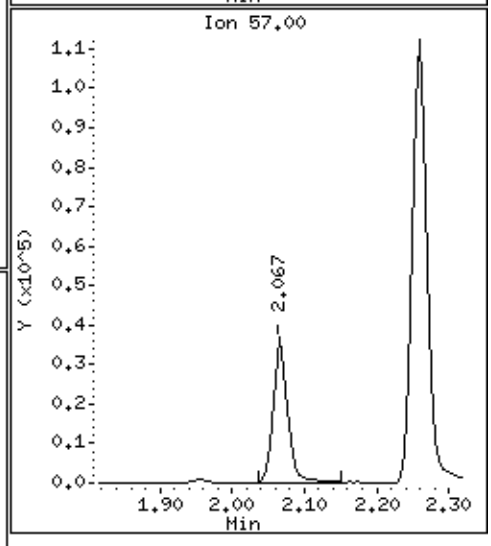
21 Methyl-tert-butyl ether

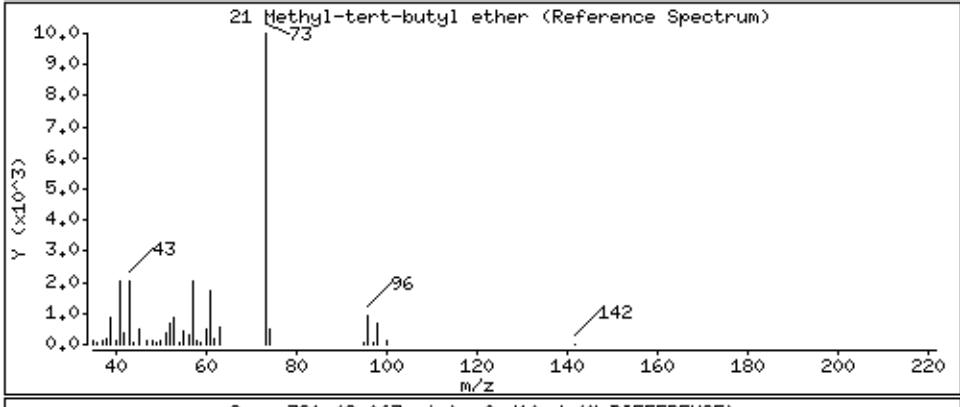
Concentration: 272 ppb

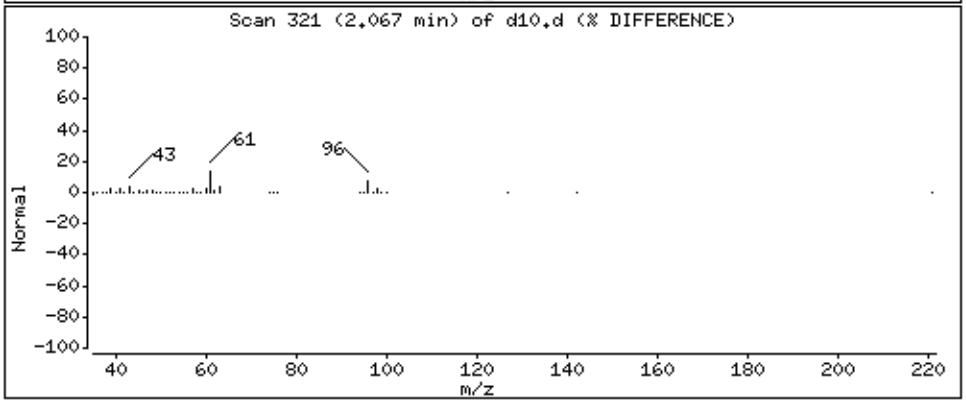












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

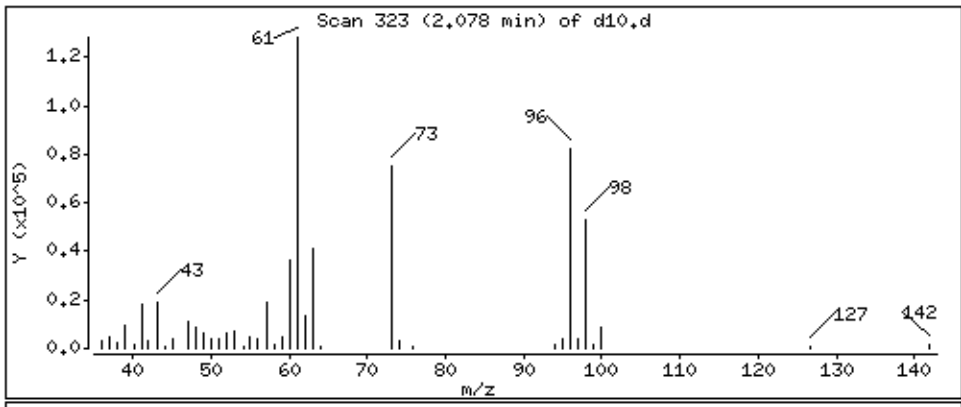
Operator: grm

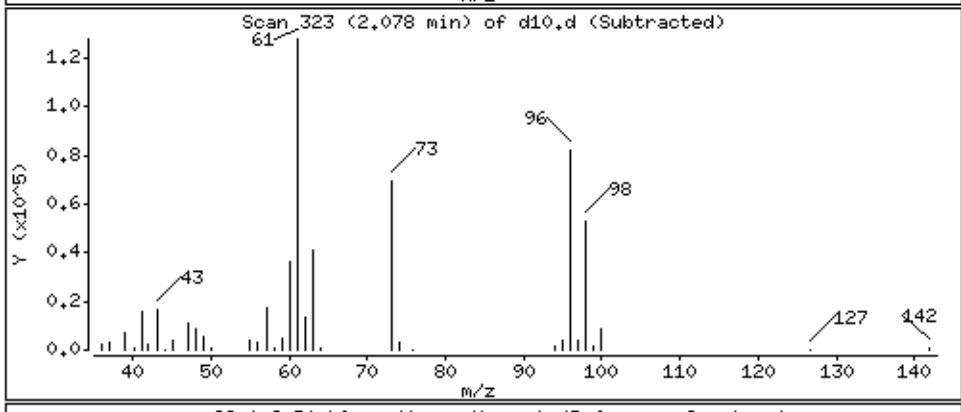
Column phase: DB-624

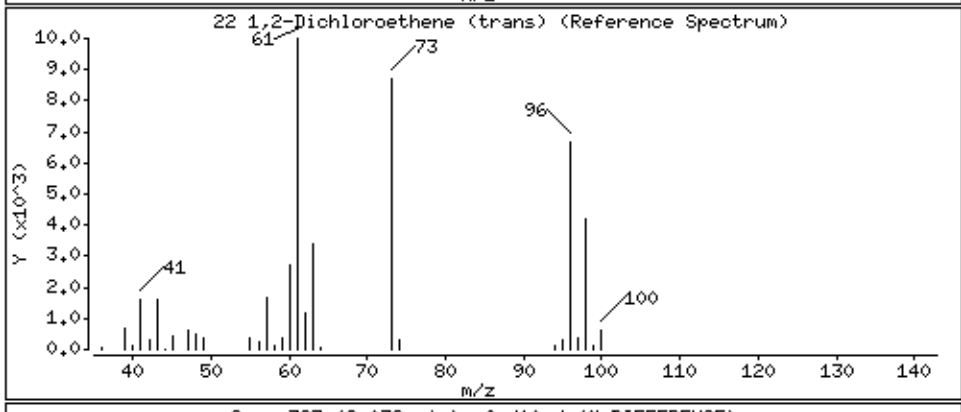
Column diameter: 0.18

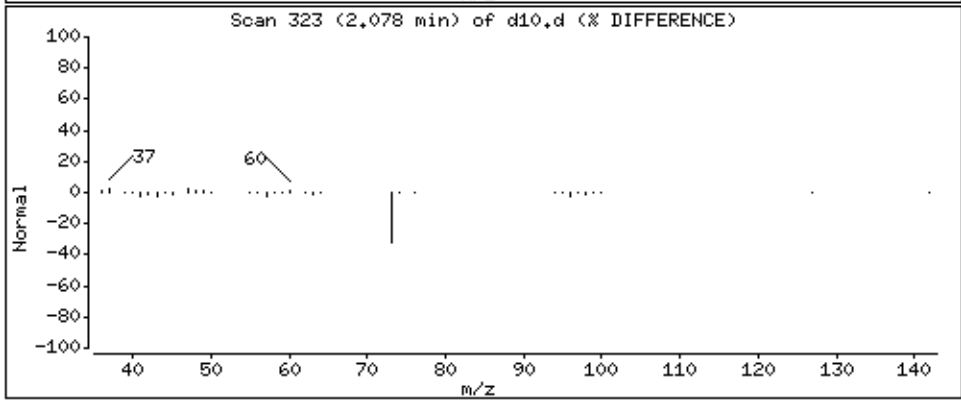
22 1,2-Dichloroethene (trans)

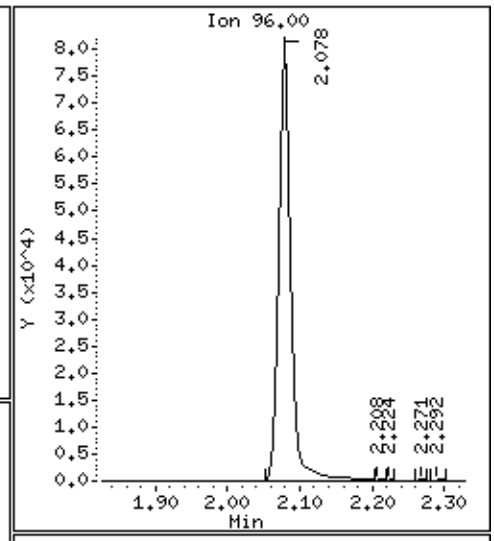
Concentration: 299 ppb

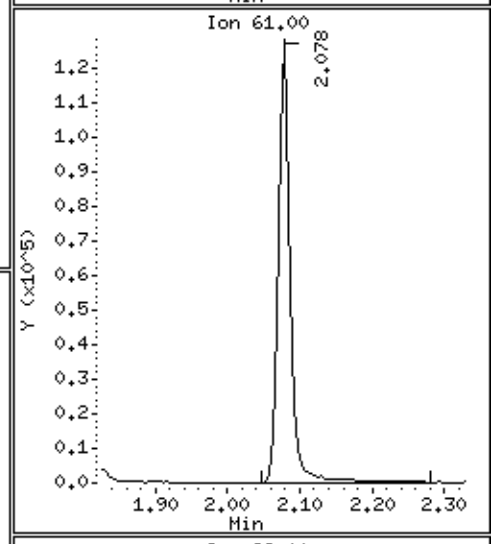


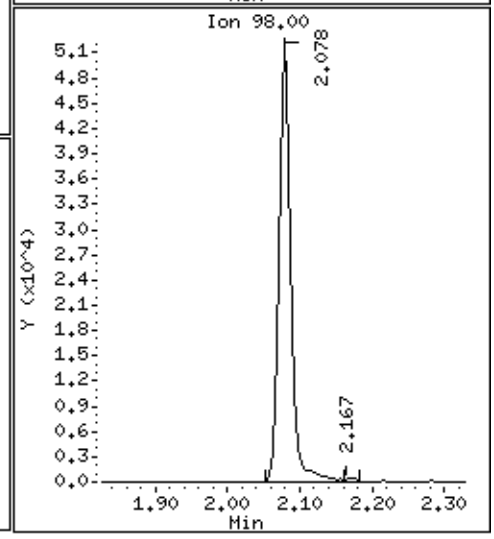












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

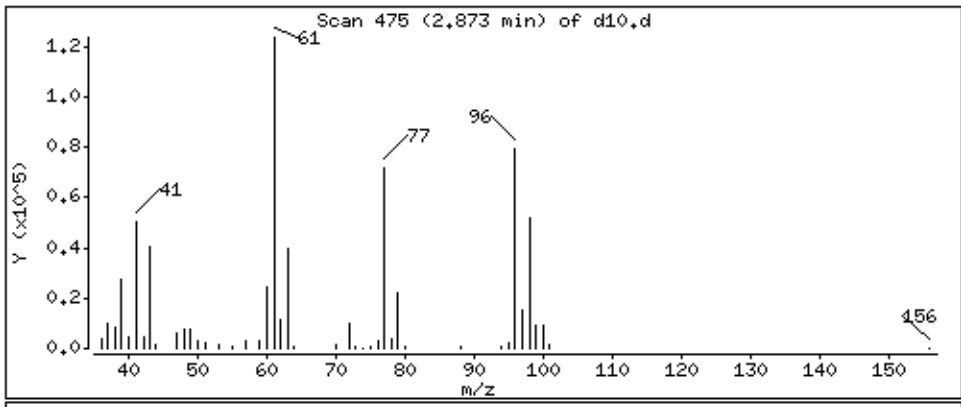
Operator: grm

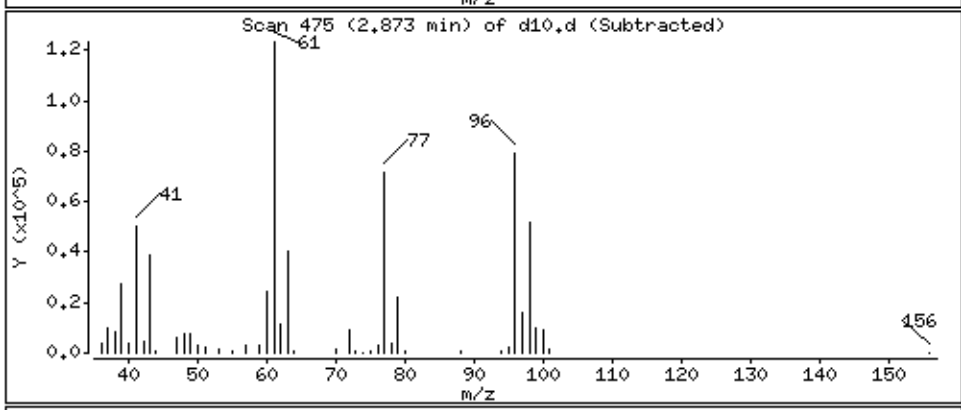
Column phase: DB-624

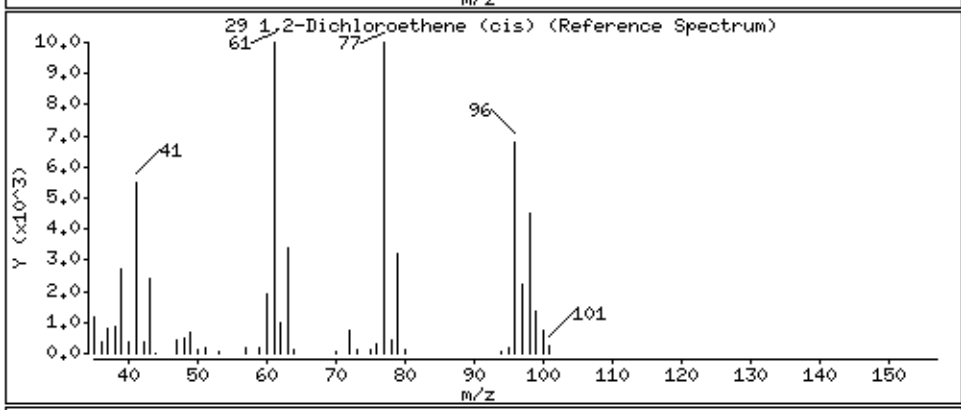
Column diameter: 0.18

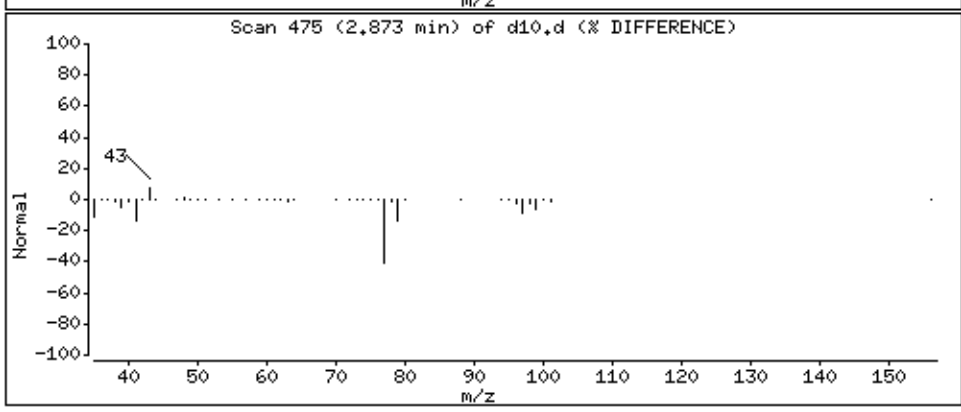
29 1,2-Dichloroethene (cis)

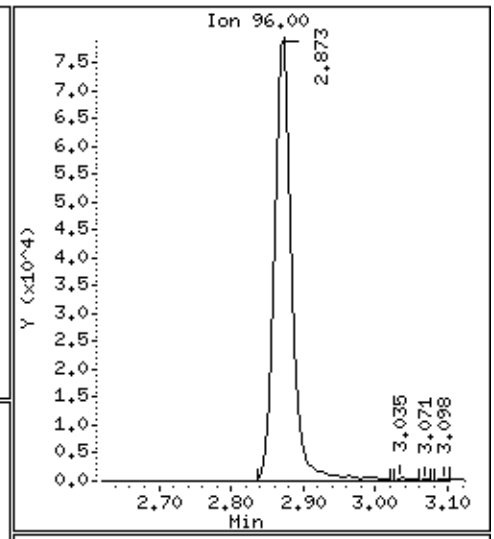
Concentration: 392 ppb

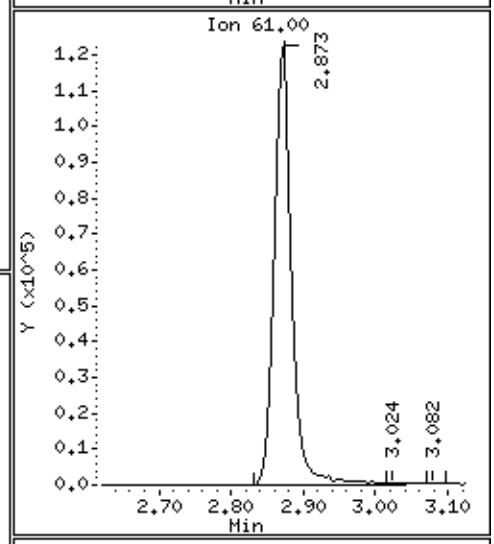


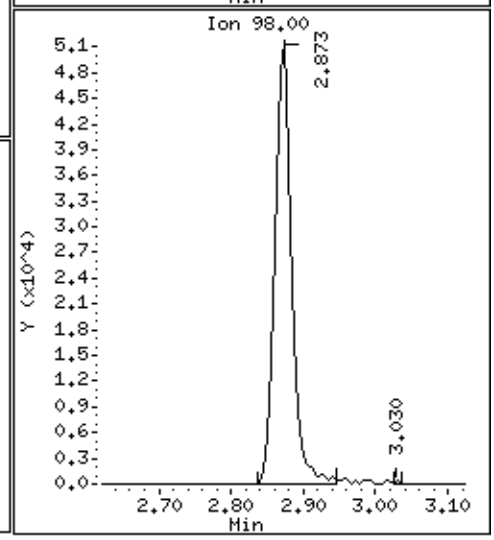












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

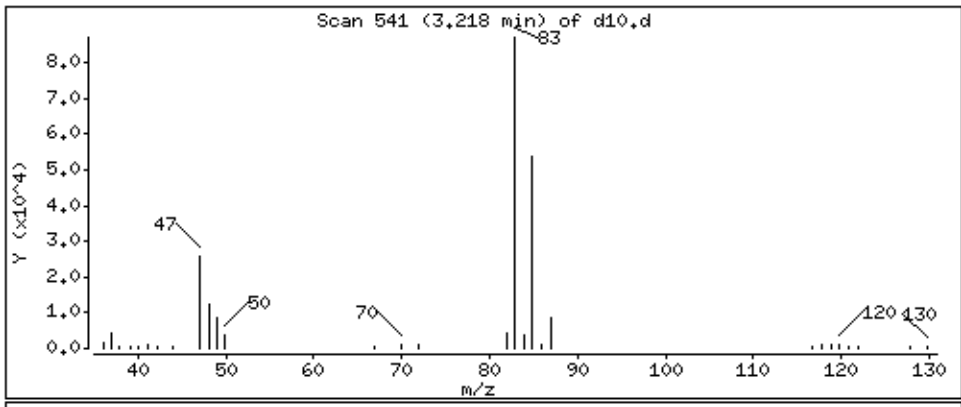
Operator: grm

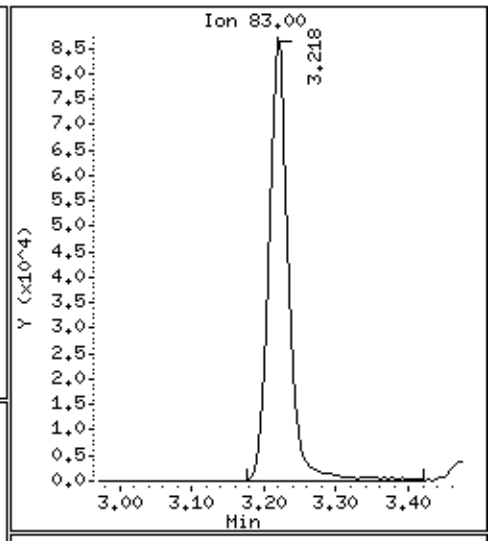
Column phase: DB-624

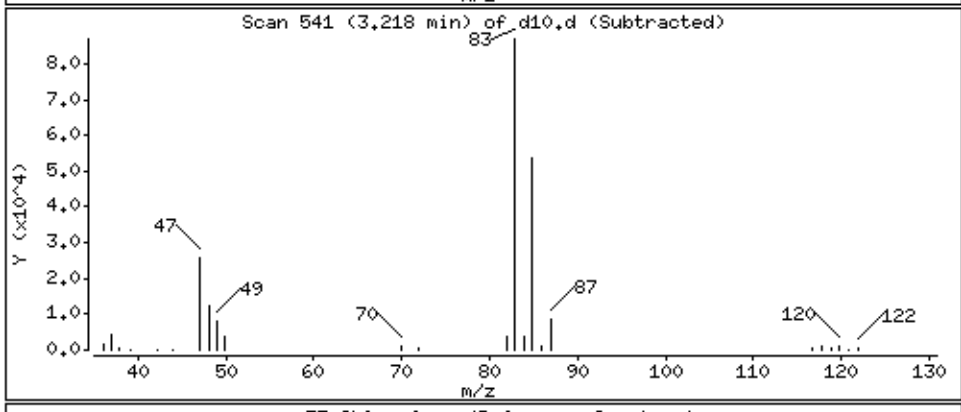
Column diameter: 0.18

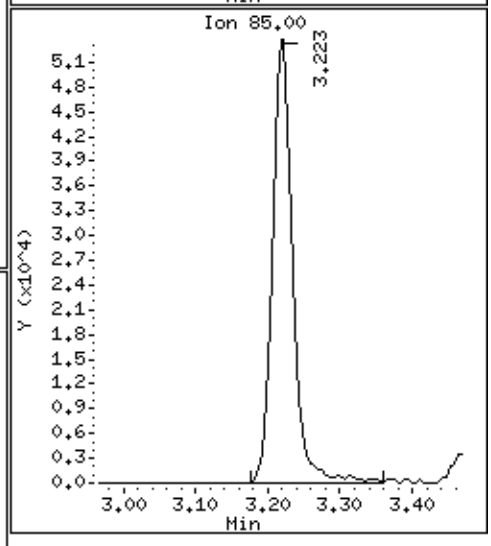
35 Chloroform

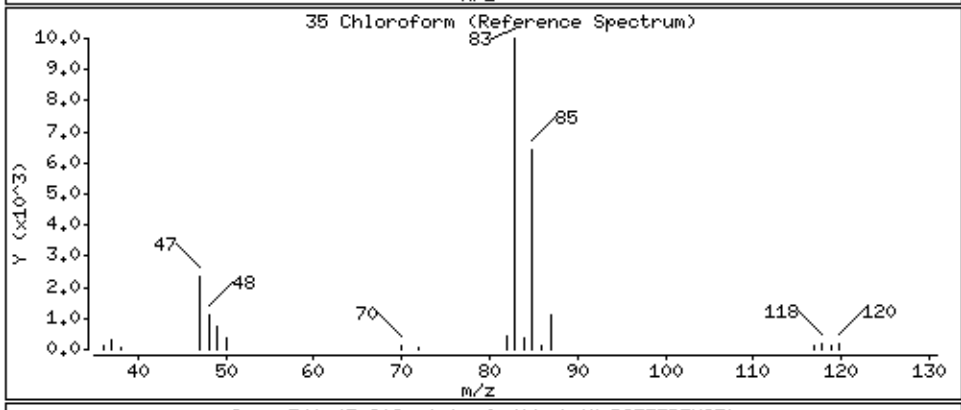
Concentration: 268 ppb

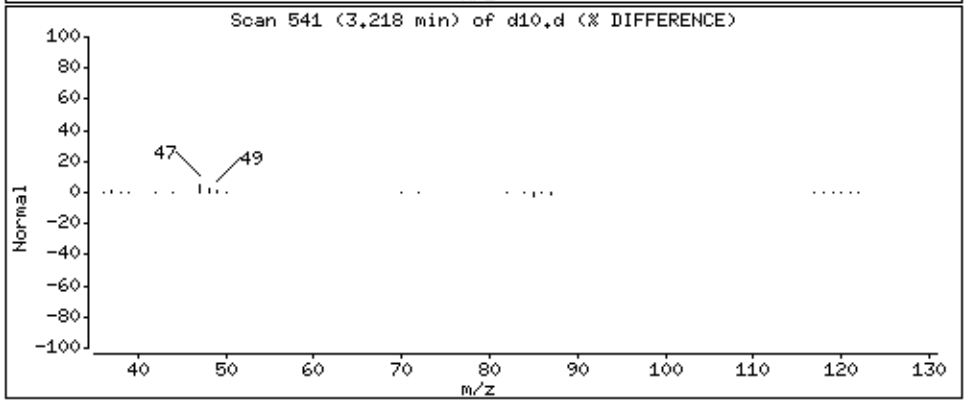












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

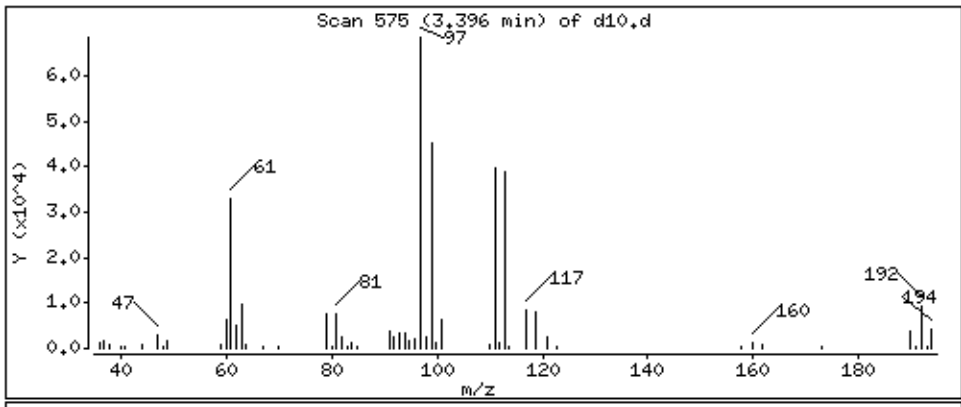
Operator: grm

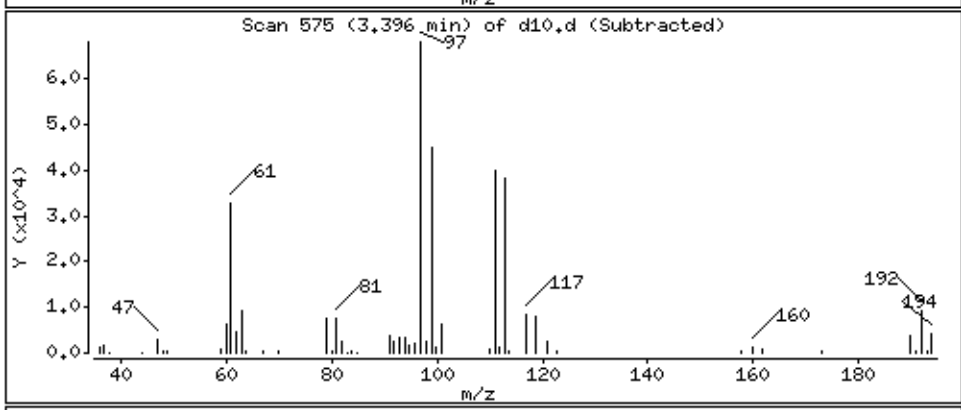
Column phase: DB-624

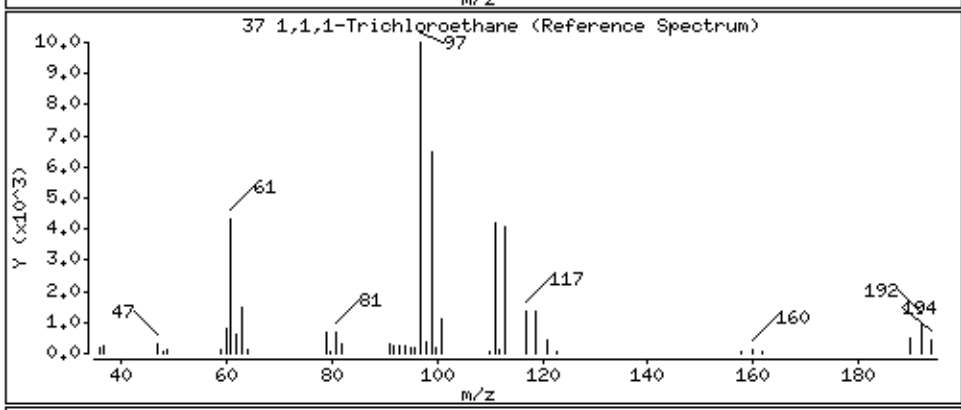
Column diameter: 0.18

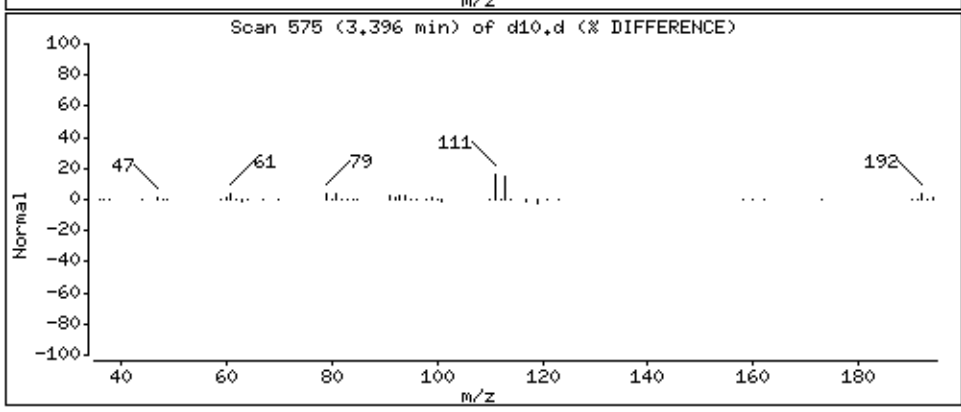
37 1,1,1-Trichloroethane

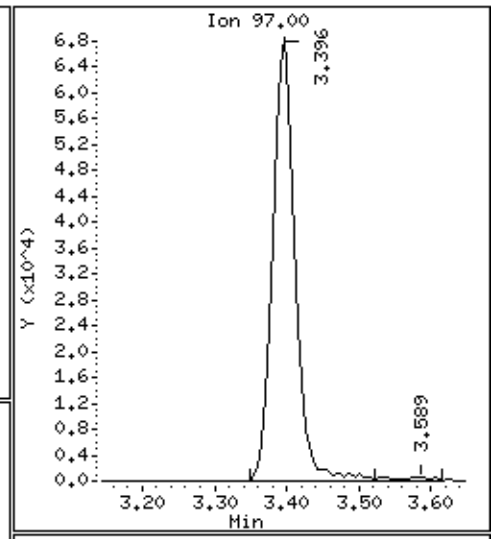
Concentration: 265 ppb

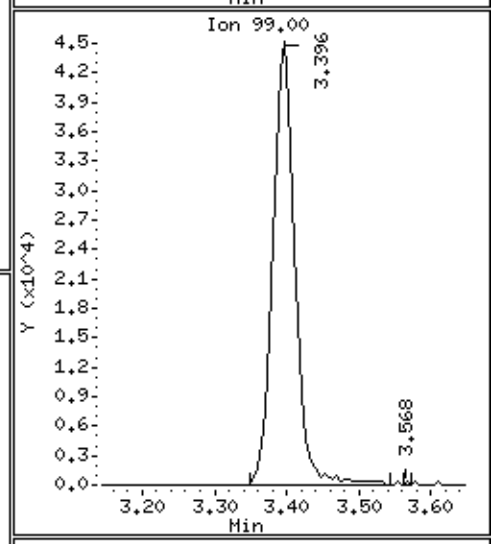


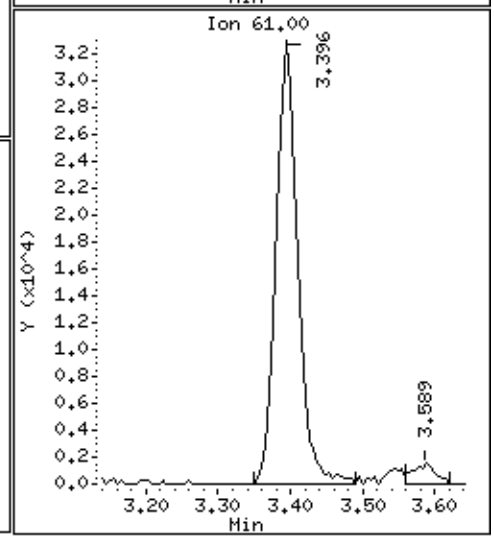












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

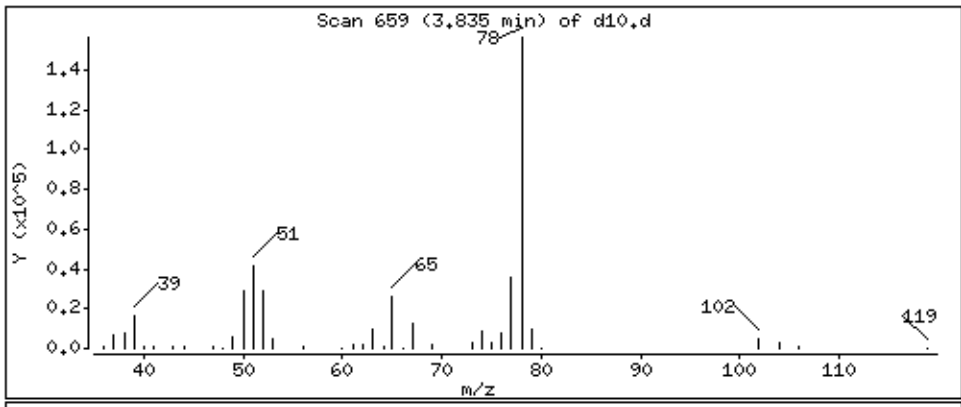
Operator: grm

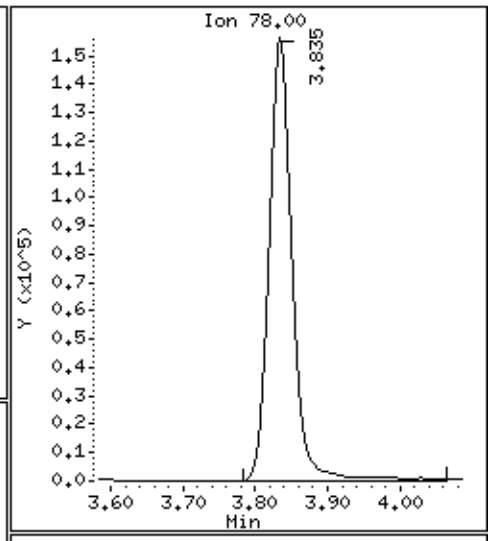
Column phase: DB-624

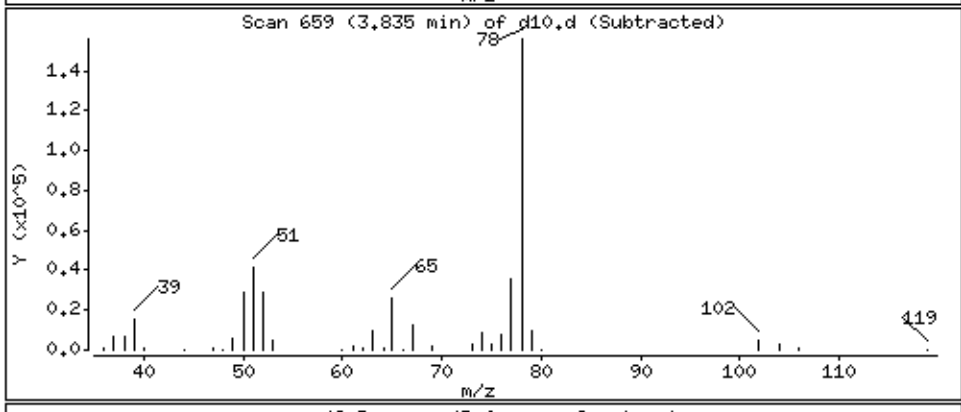
Column diameter: 0.18

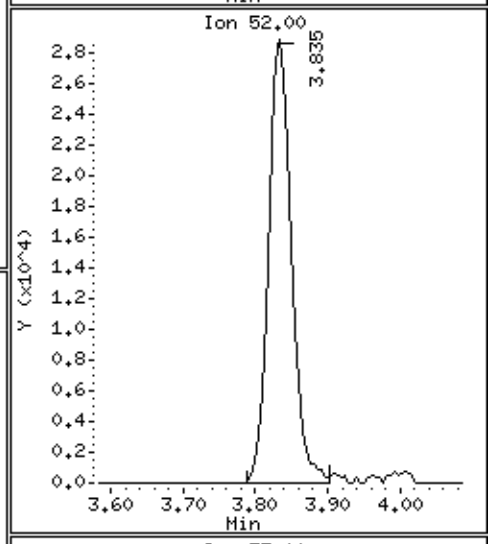
42 Benzene

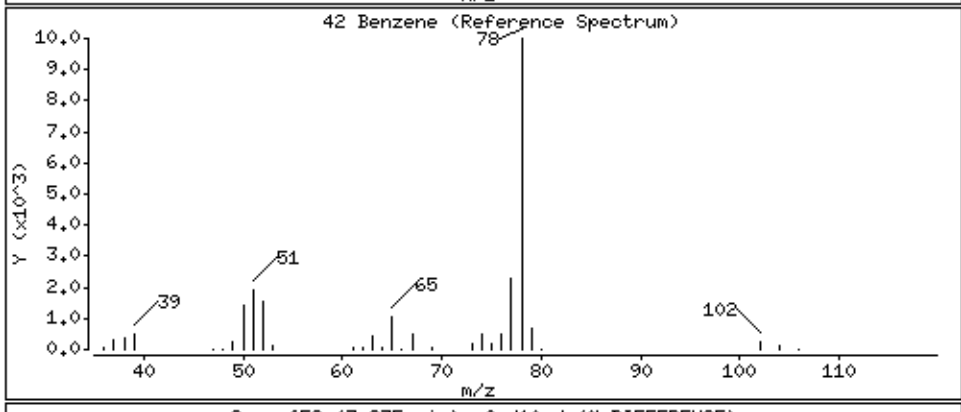
Concentration: 274 ppb

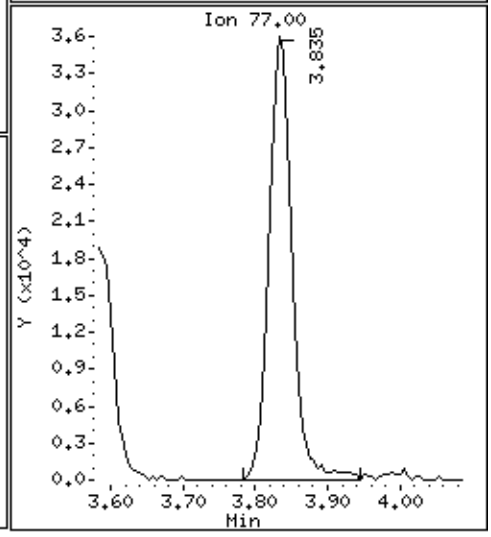


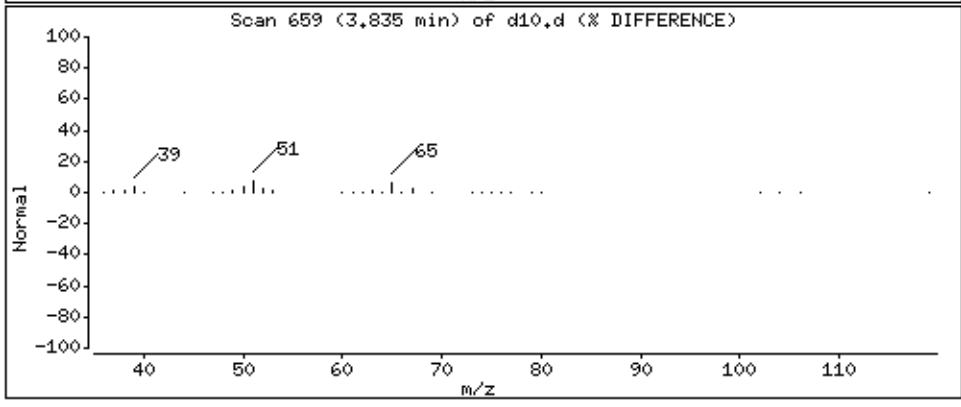












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

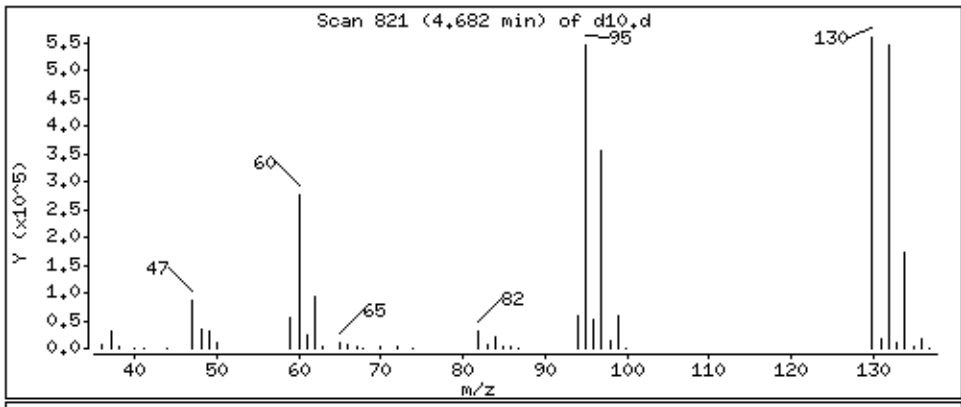
Operator: grm

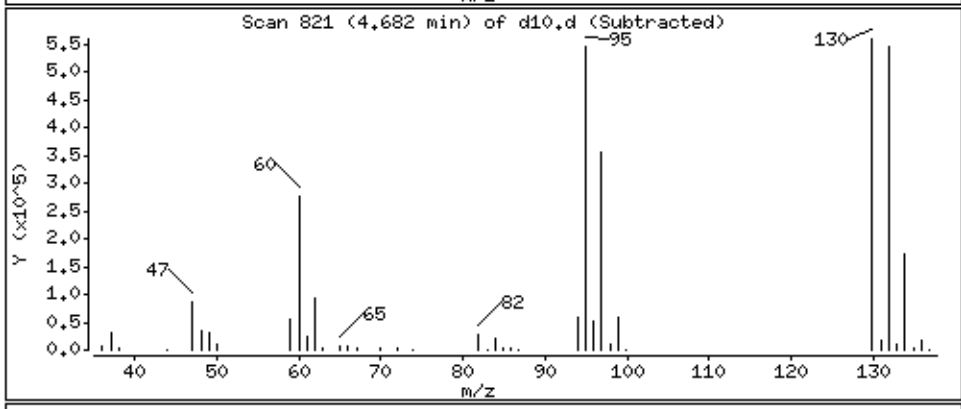
Column phase: DB-624

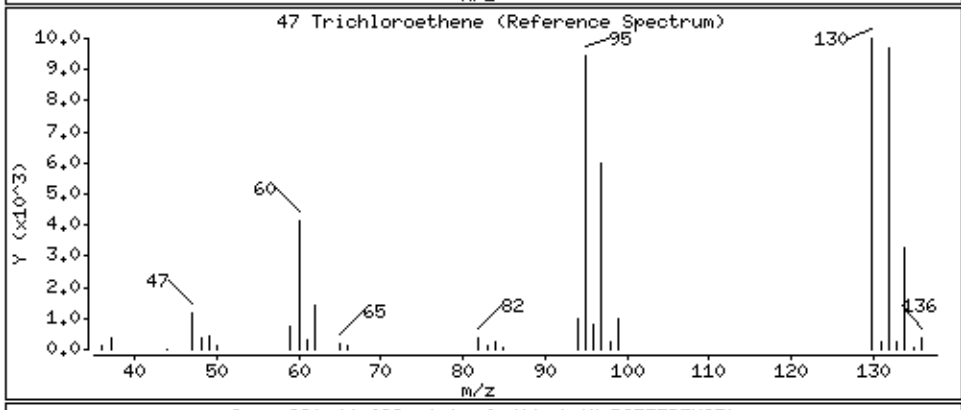
Column diameter: 0.18

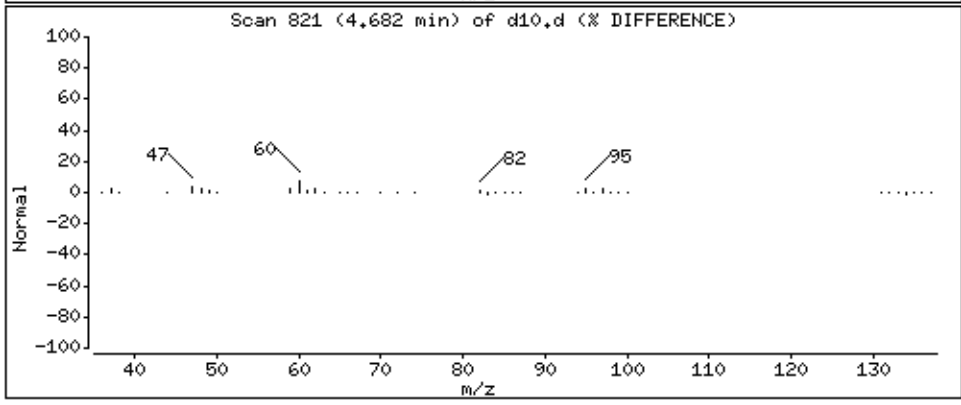
47 Trichloroethene

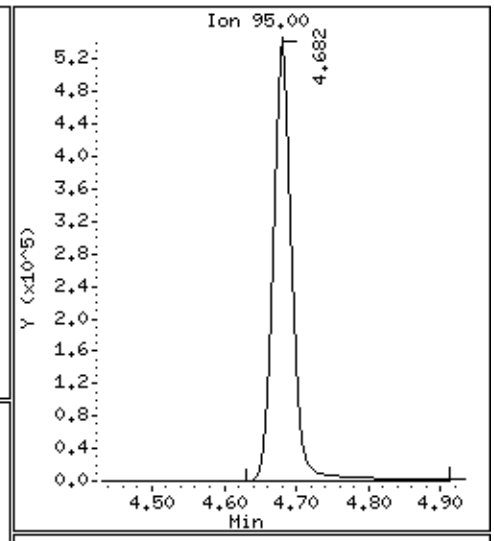
Concentration: 2990 ppb

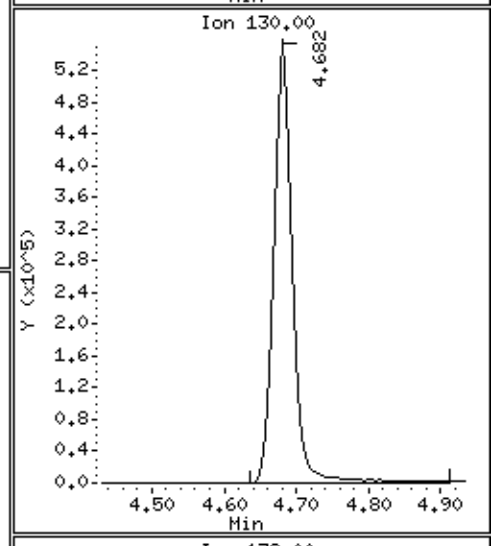


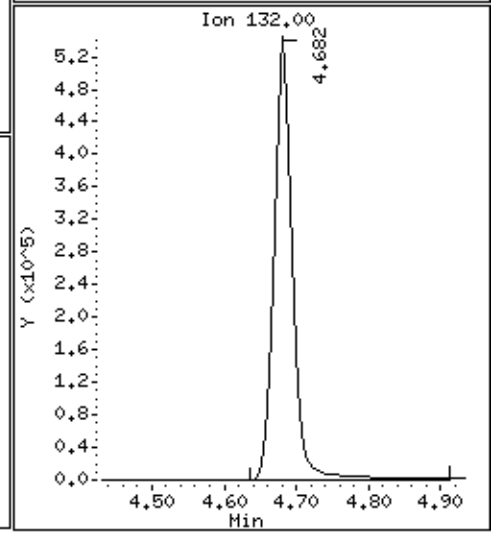












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

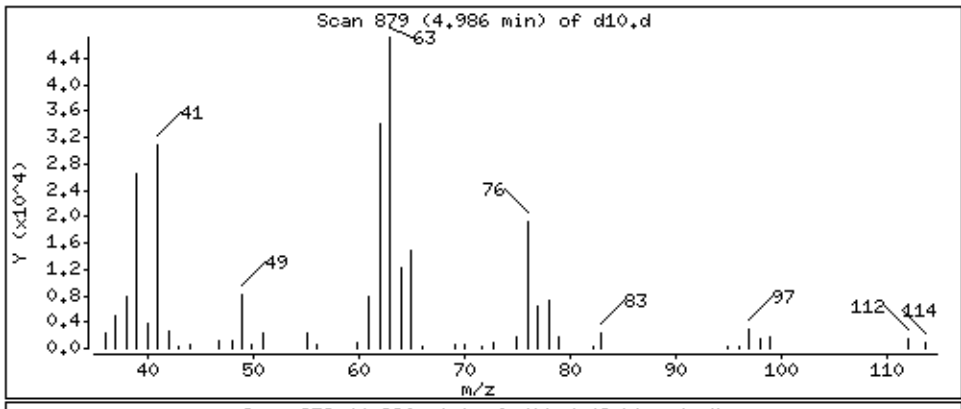
Operator: grm

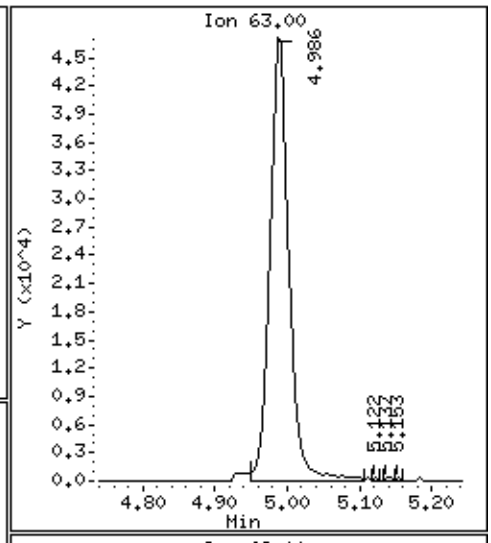
Column phase: DB-624

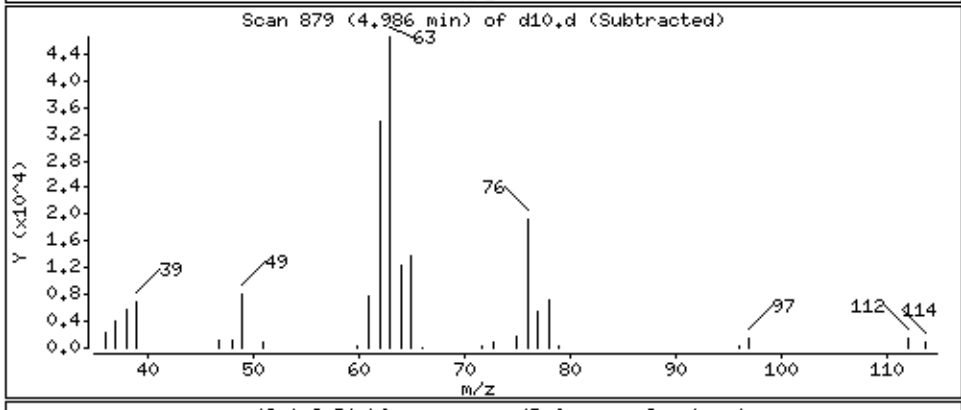
Column diameter: 0.18

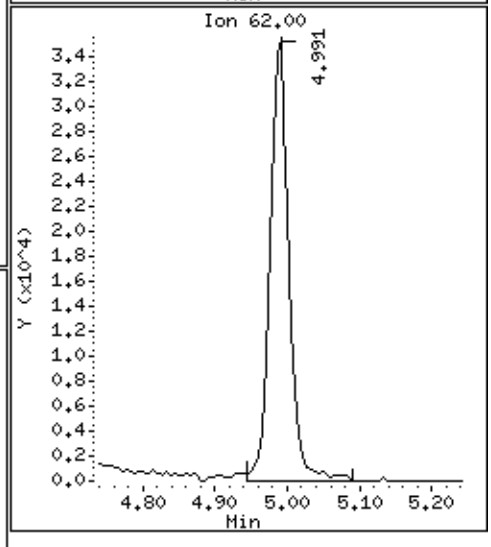
49 1,2-Dichloropropane

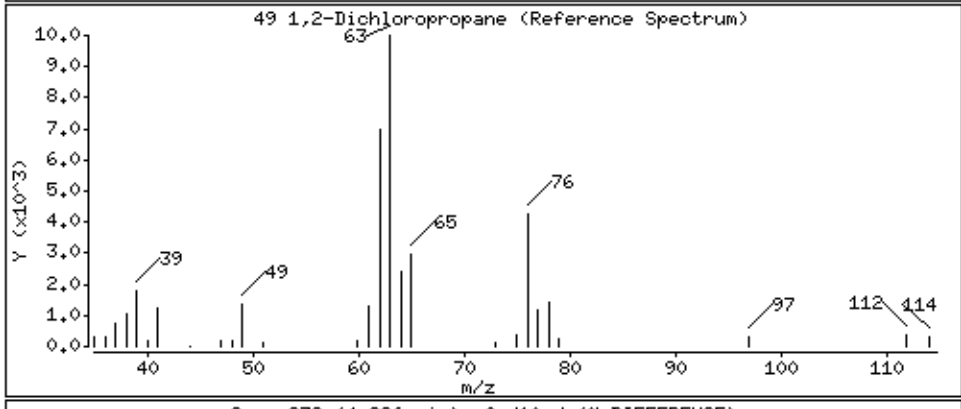
Concentration: 264 ppb

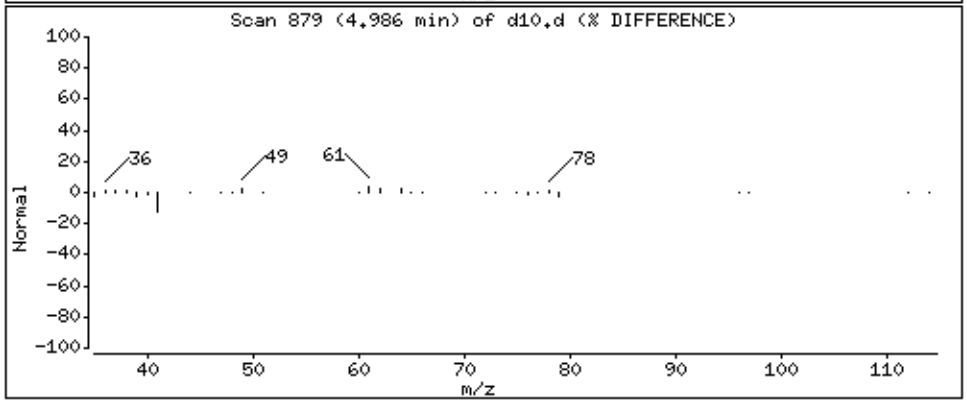












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

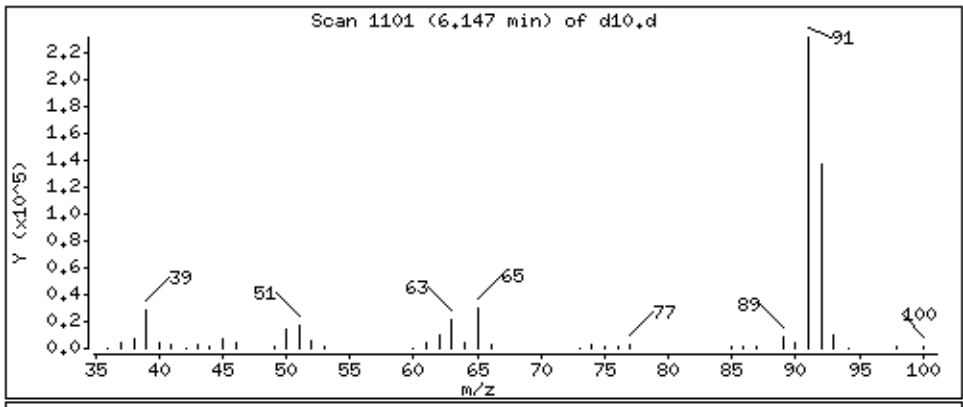
Operator: grm

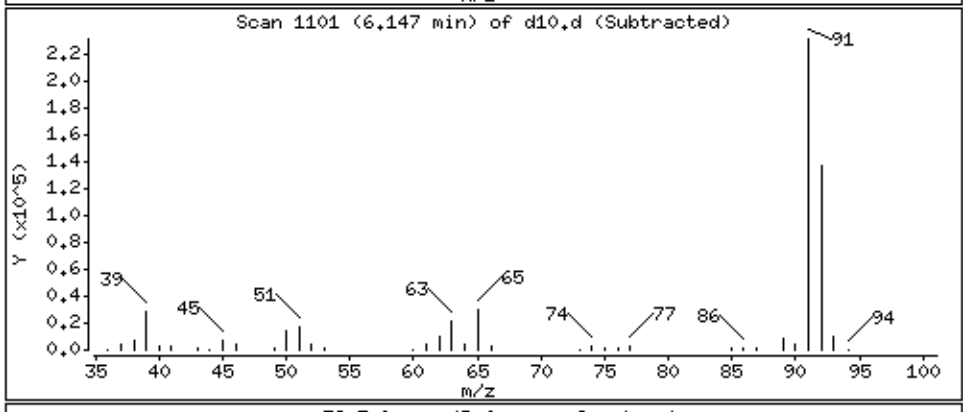
Column phase: DB-624

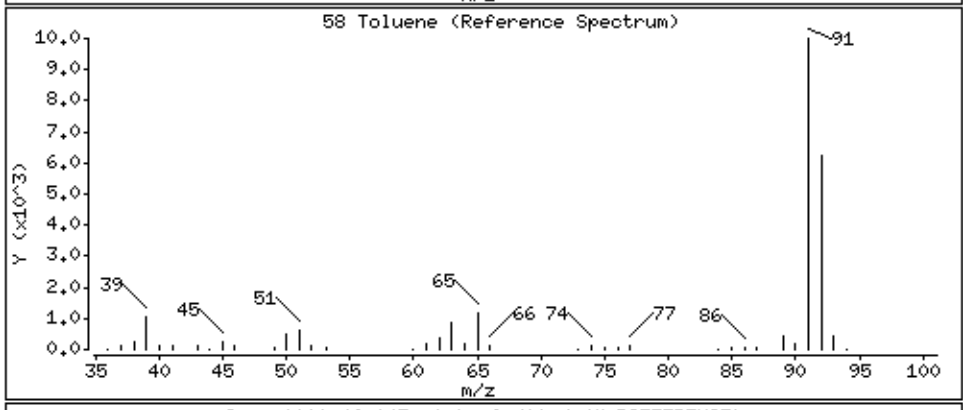
Column diameter: 0.18

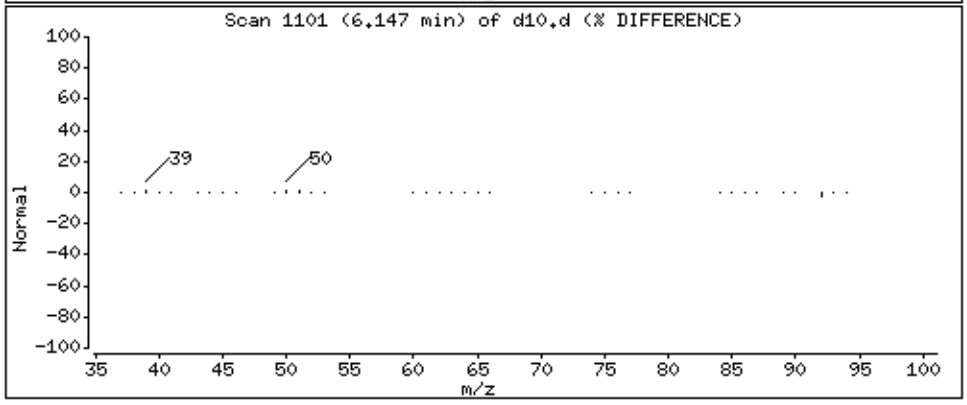
58 Toluene

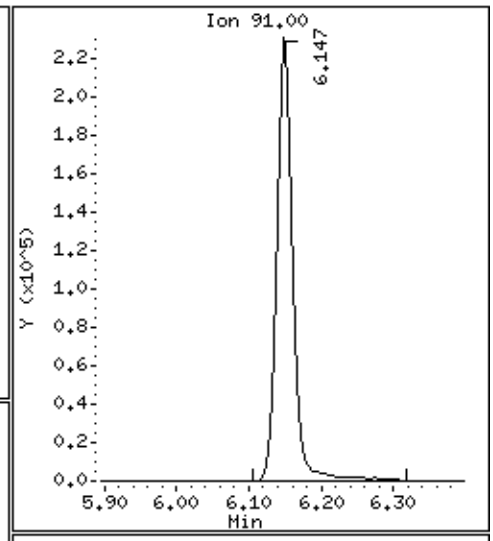
Concentration: 259 ppb

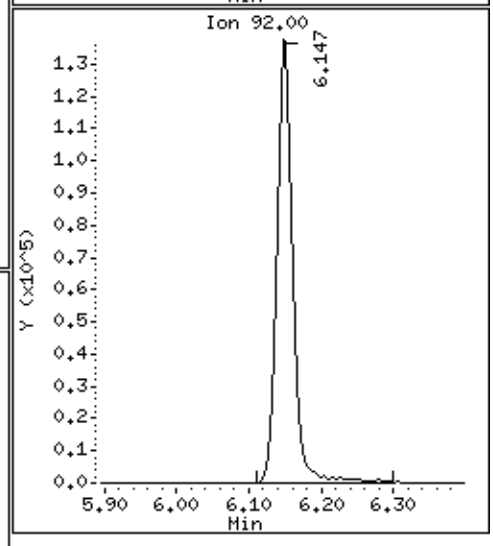












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

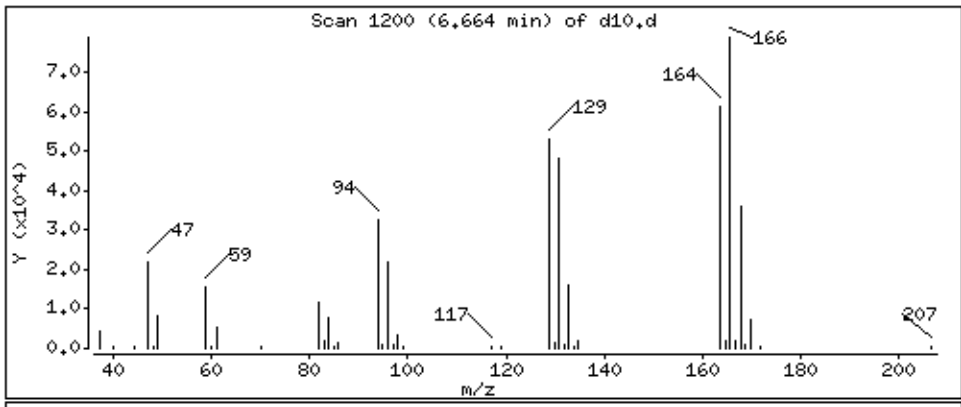
Operator: grm

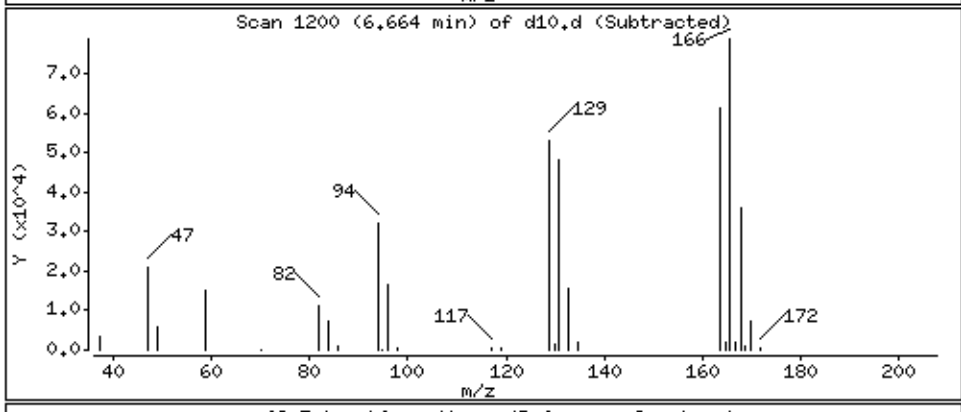
Column phase: DB-624

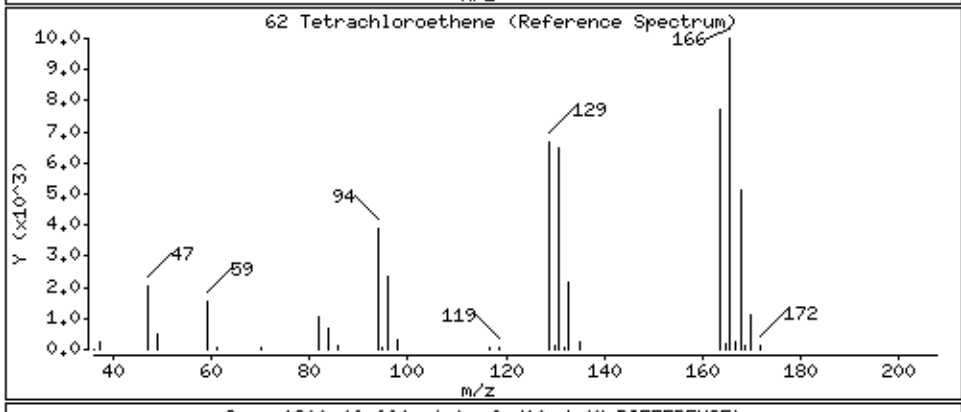
Column diameter: 0.18

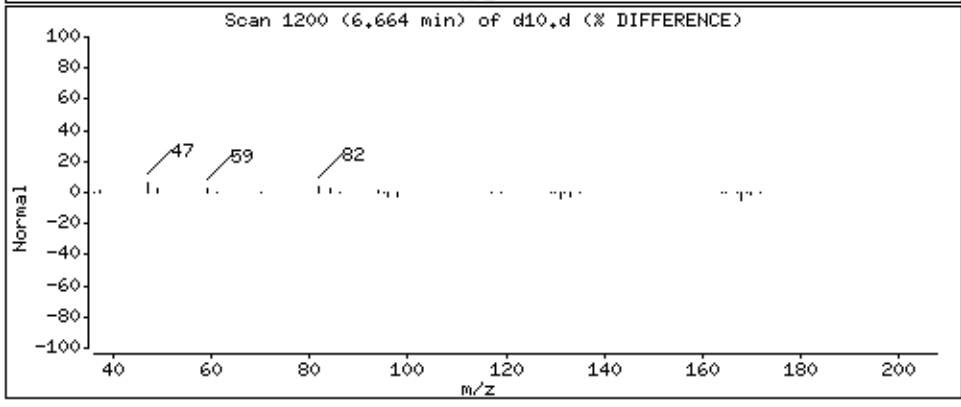
62 Tetrachloroethene

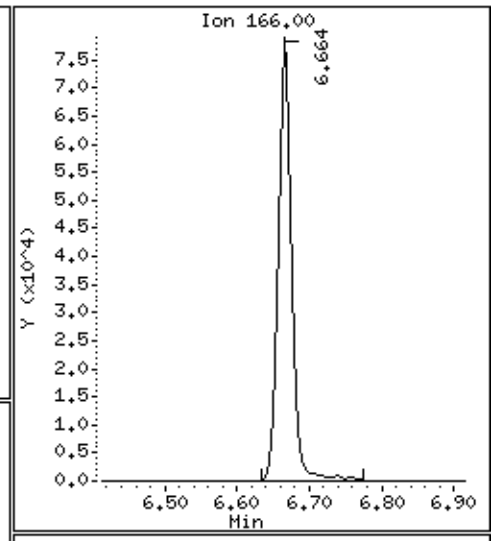
Concentration: 276 ppb

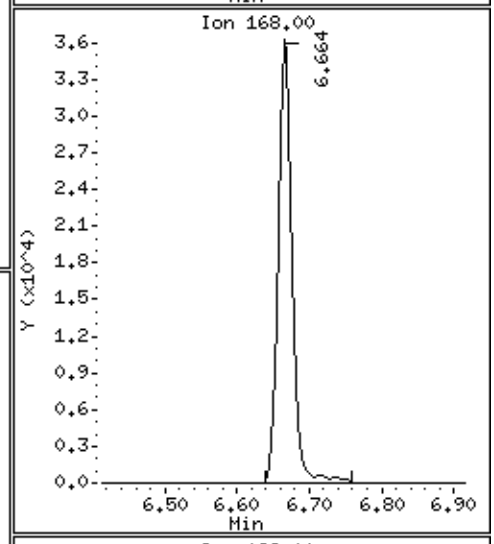


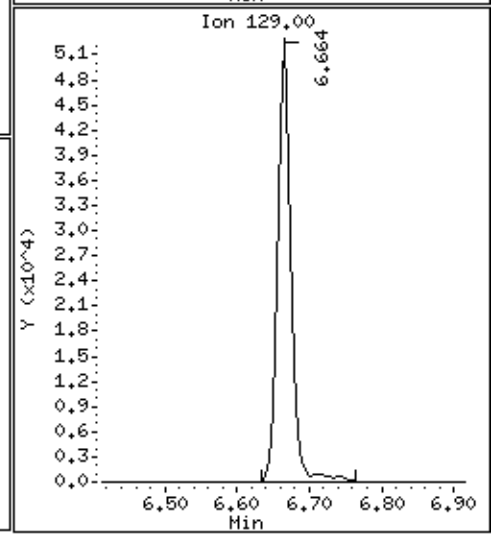












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

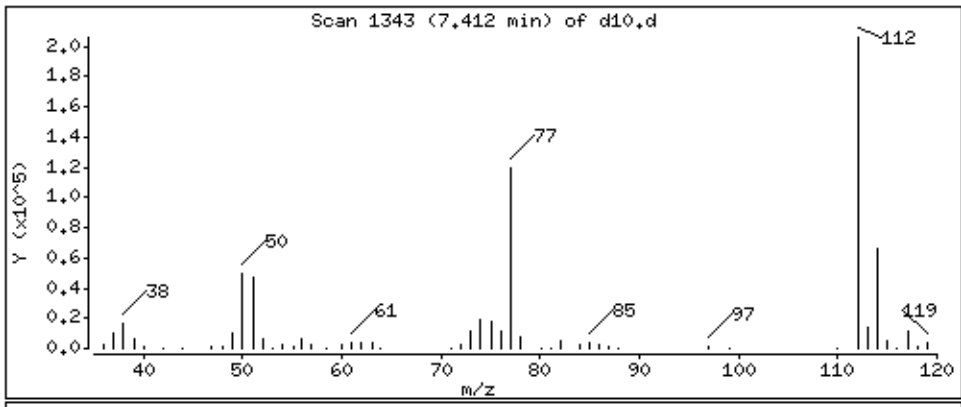
Operator: grm

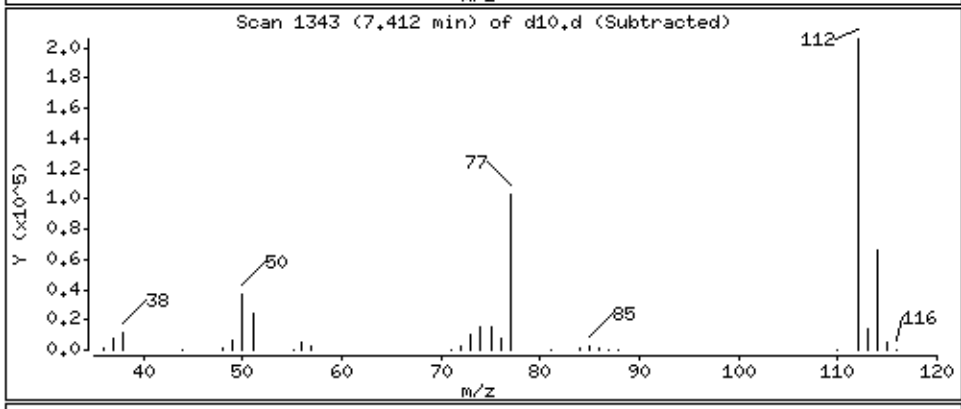
Column phase: DB-624

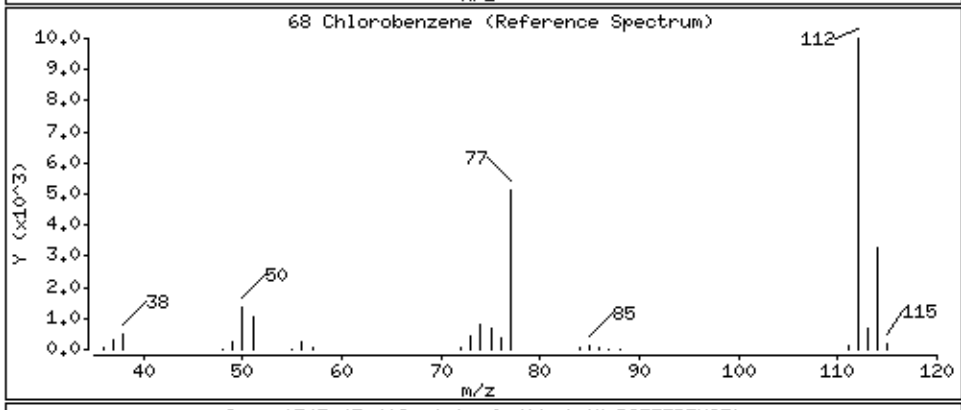
Column diameter: 0.18

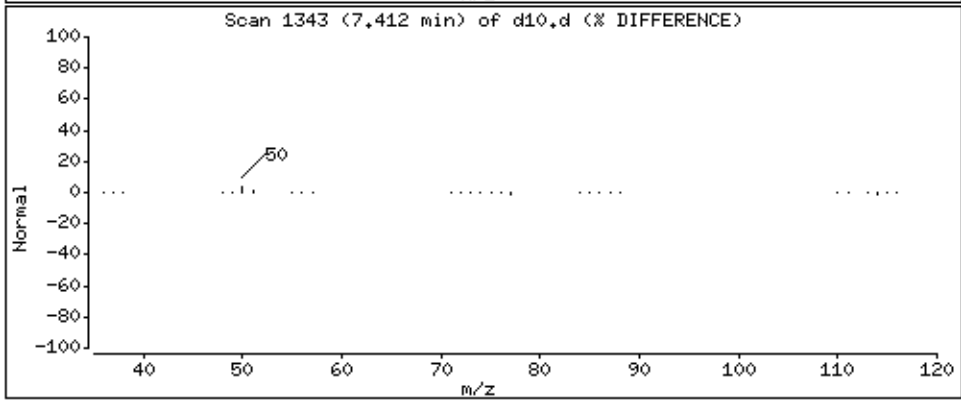
68 Chlorobenzene

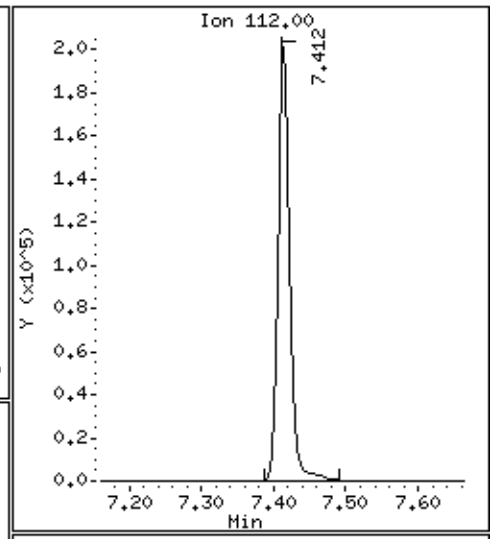
Concentration: 259 ppb

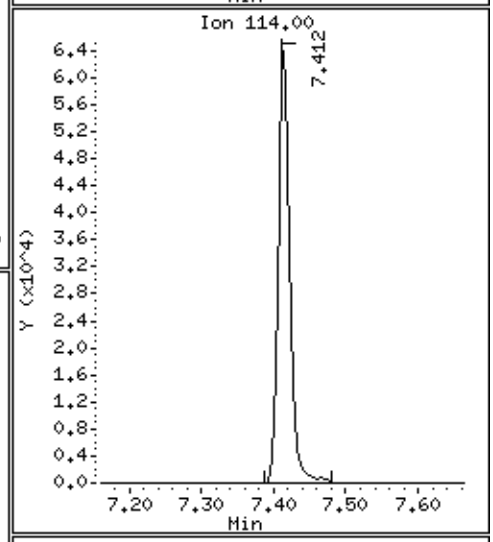


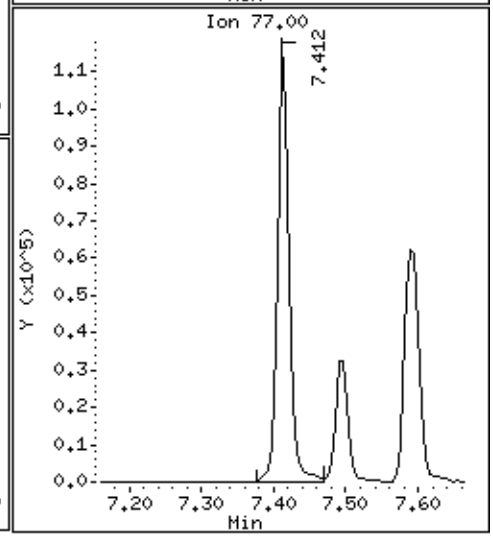












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

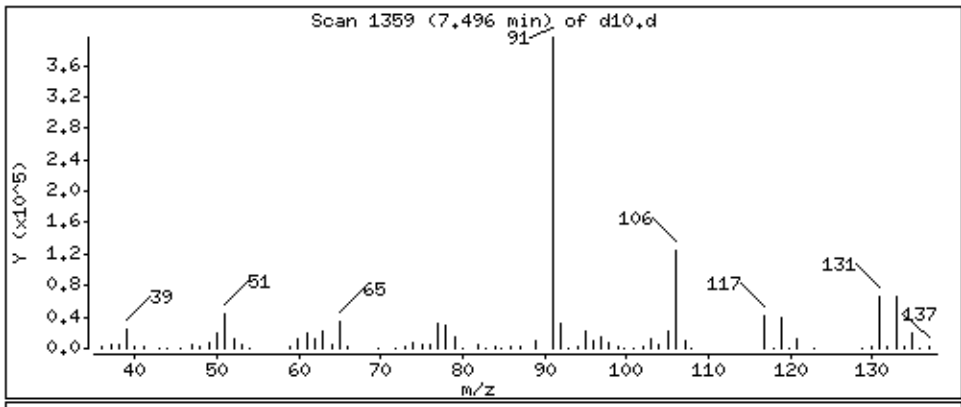
Operator: grm

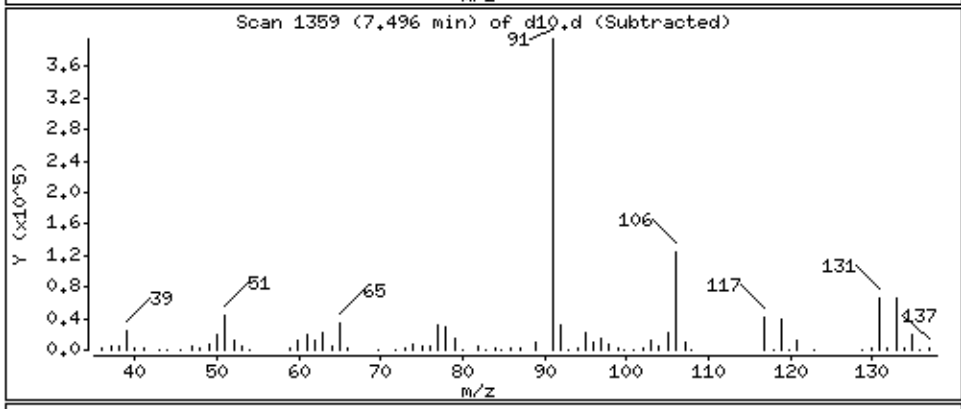
Column phase: DB-624

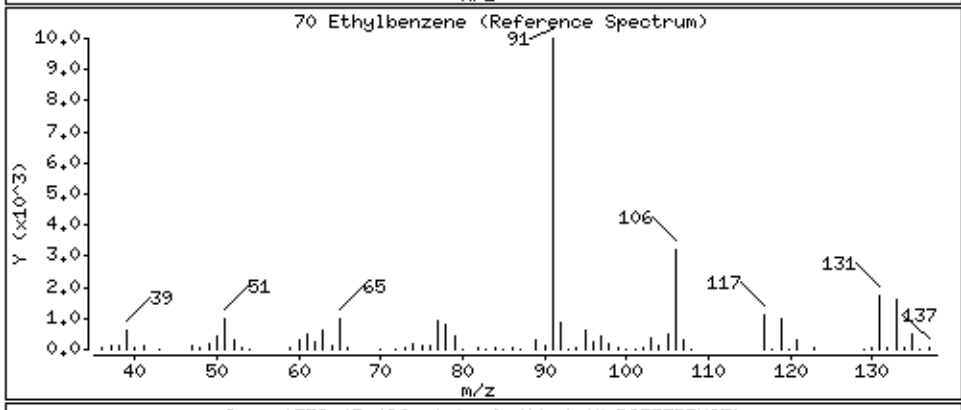
Column diameter: 0.18

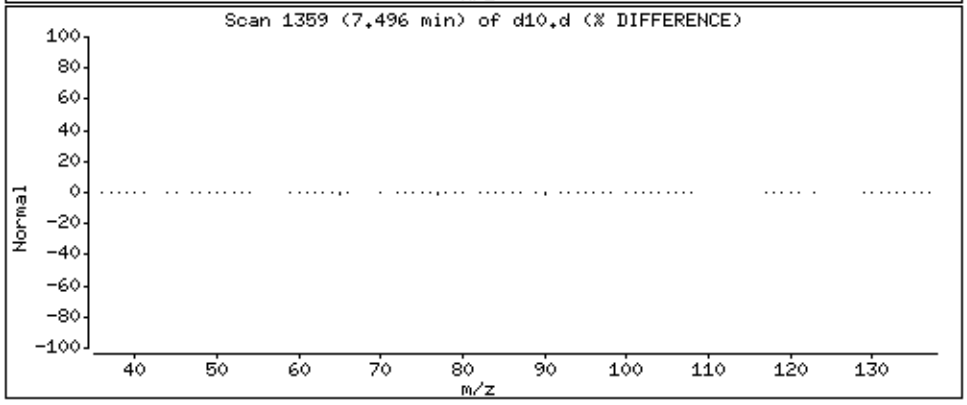
70 Ethylbenzene

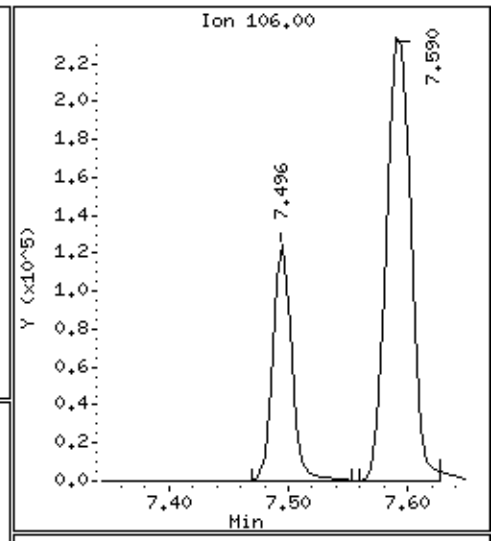
Concentration: 259 ppb

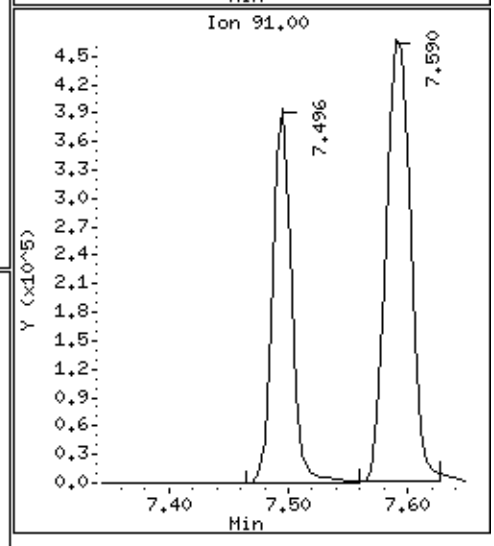












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

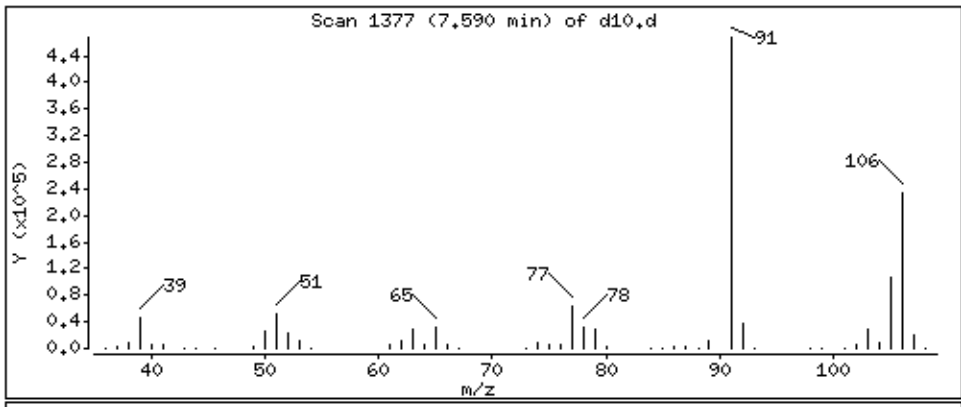
Operator: grm

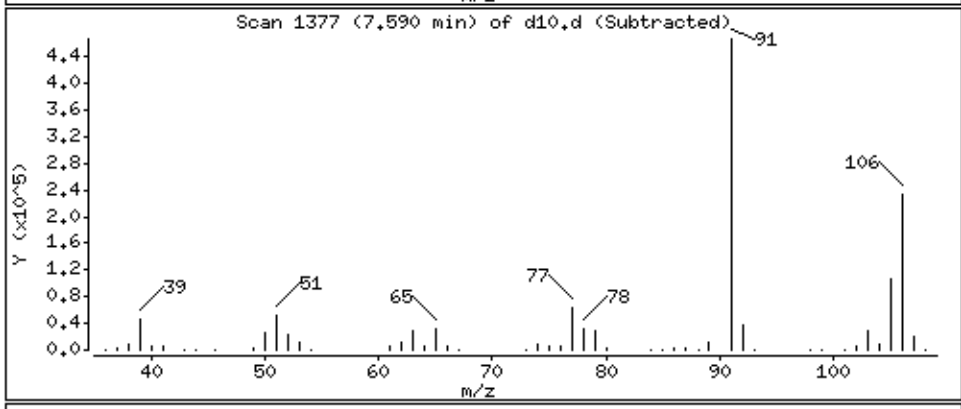
Column phase: DB-624

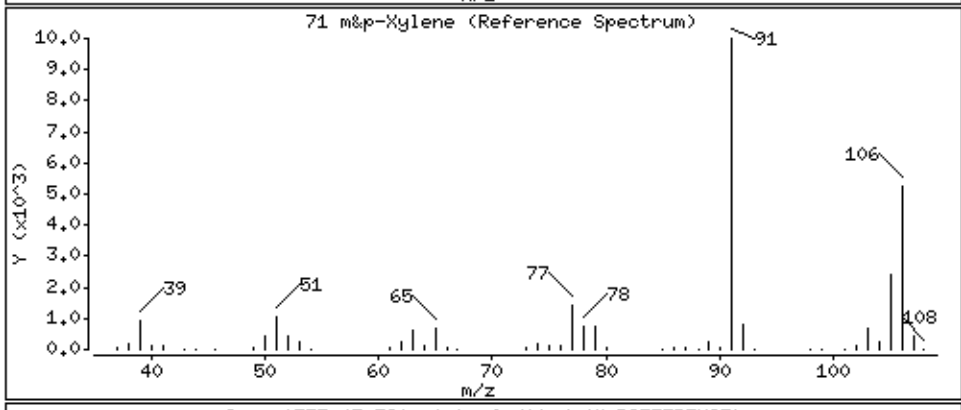
Column diameter: 0.18

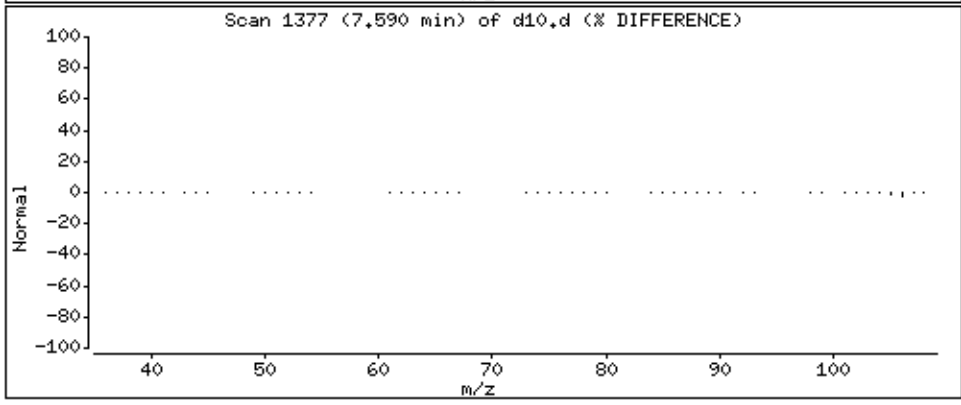
71 m&p-Xylene

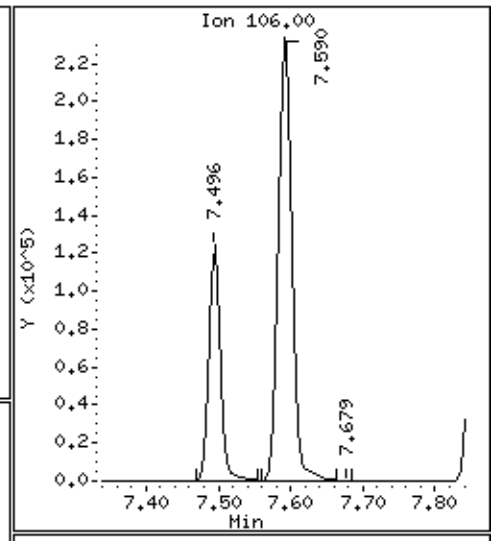
Concentration: 519 ppb

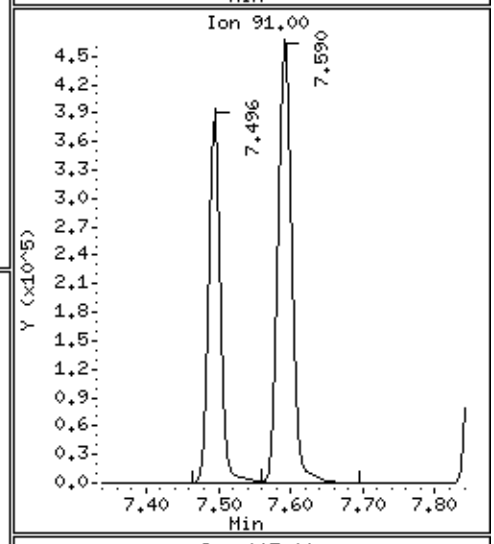


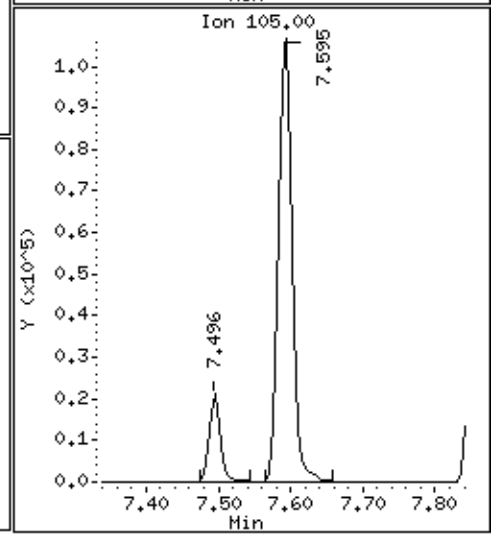












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

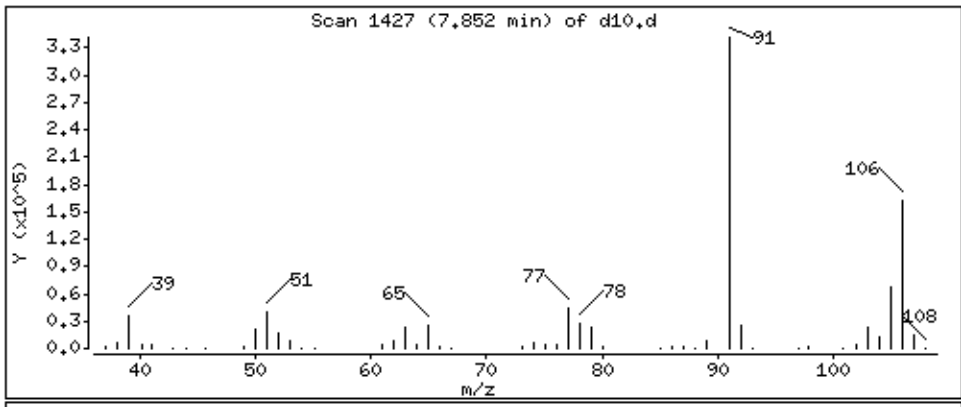
Operator: grm

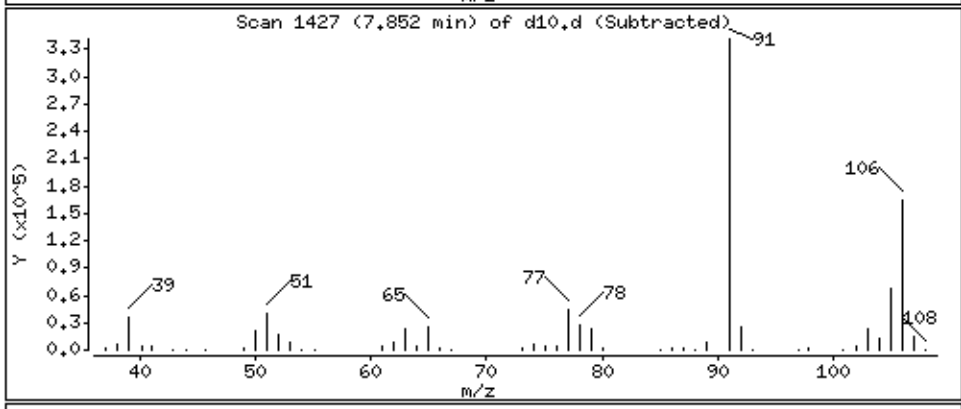
Column phase: DB-624

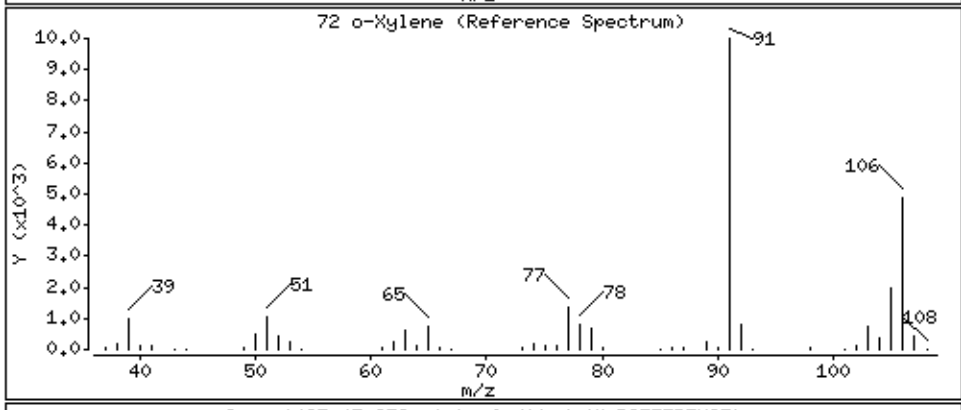
Column diameter: 0.18

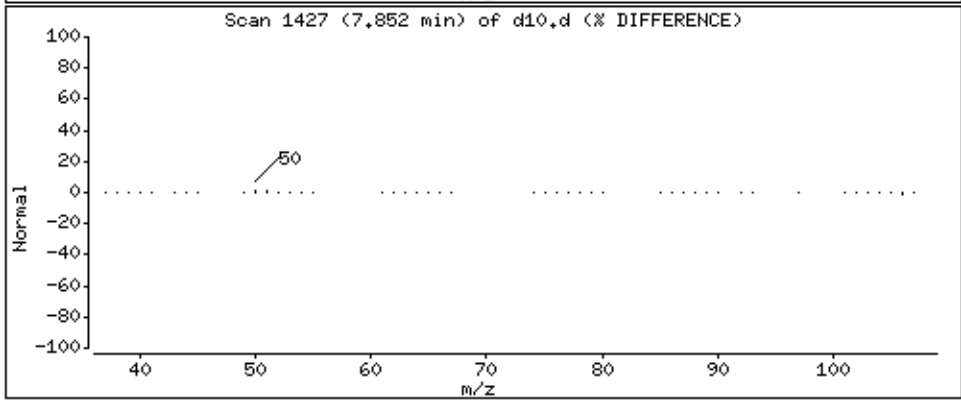
72 o-Xylene

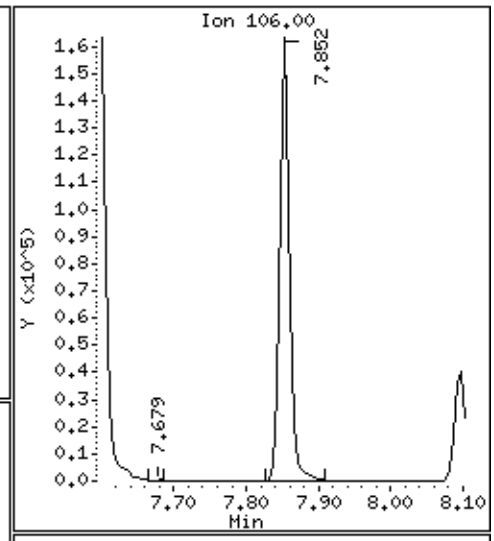
Concentration: 268 ppb

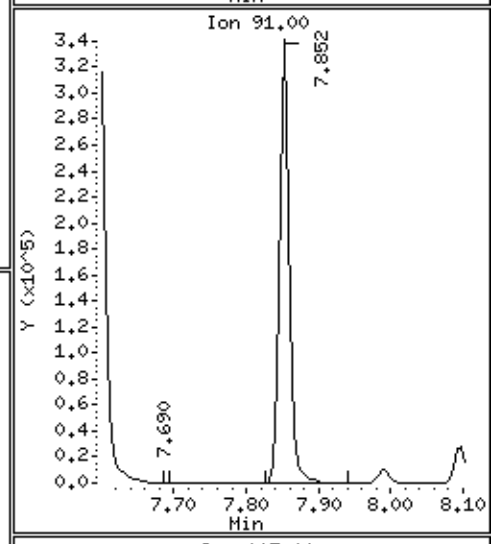


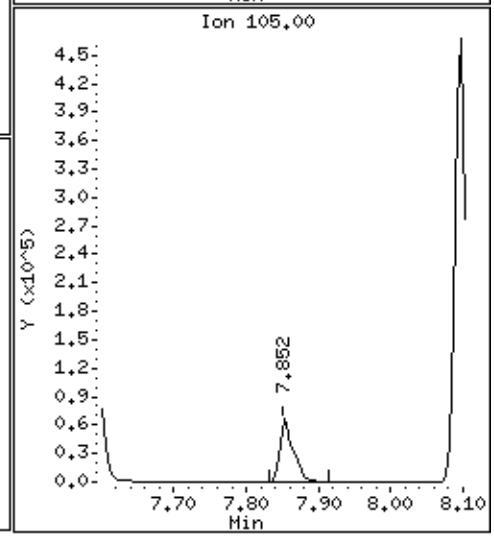












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

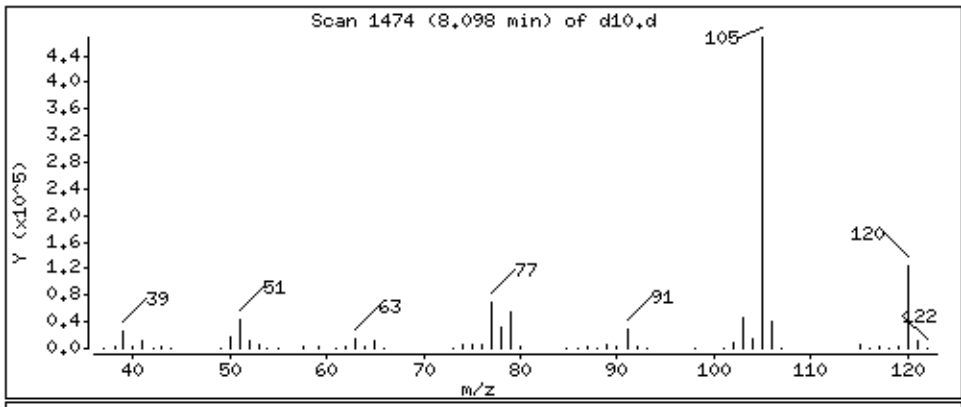
Operator: grm

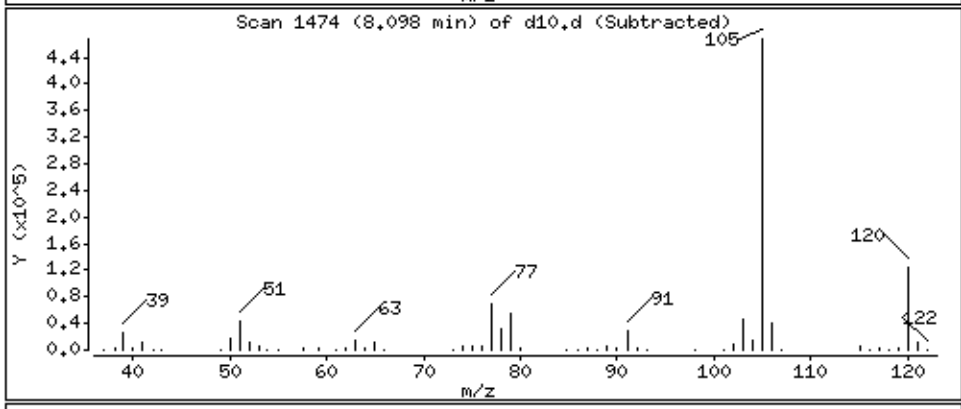
Column phase: DB-624

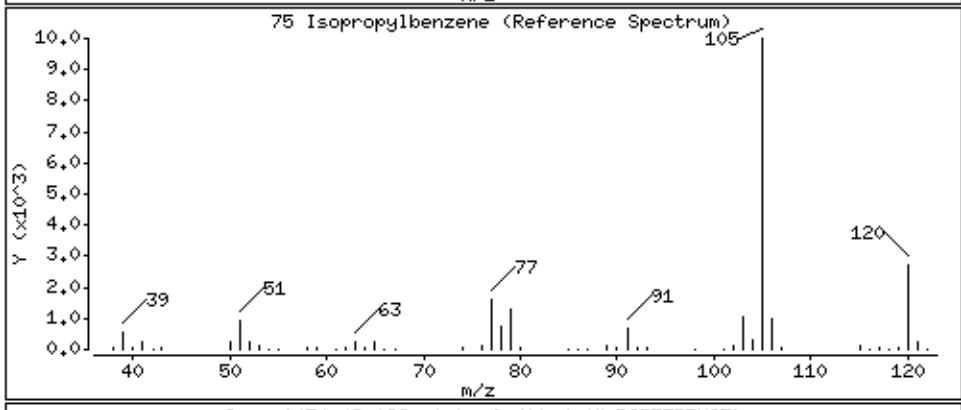
Column diameter: 0.18

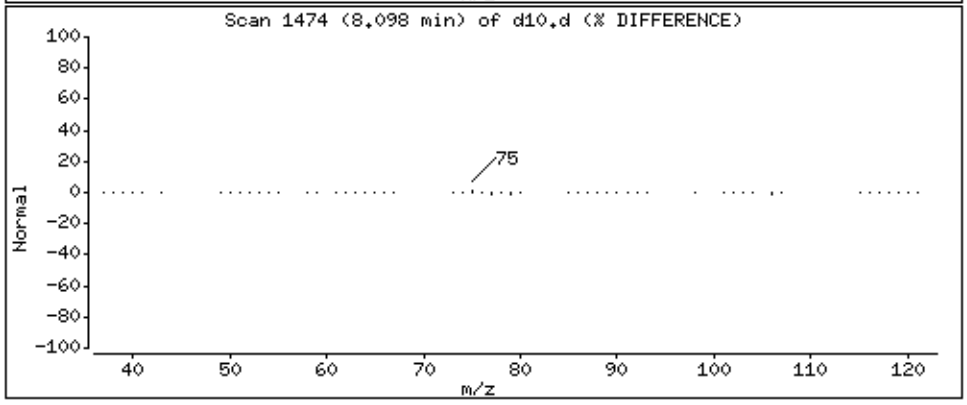
75 Isopropylbenzene

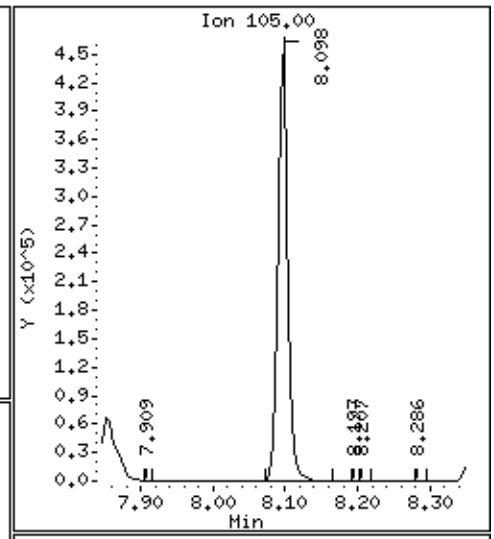
Concentration: 263 ppb

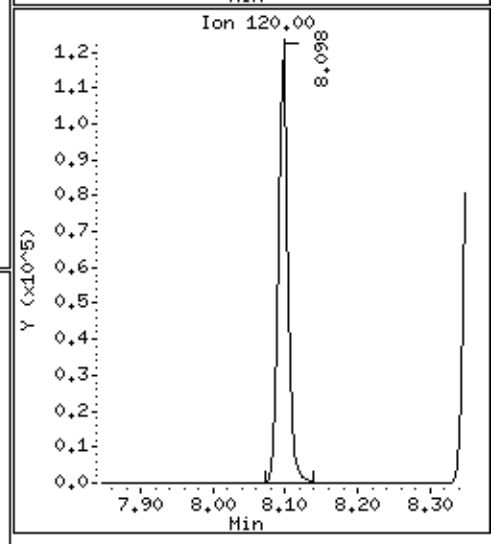












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Page 21

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

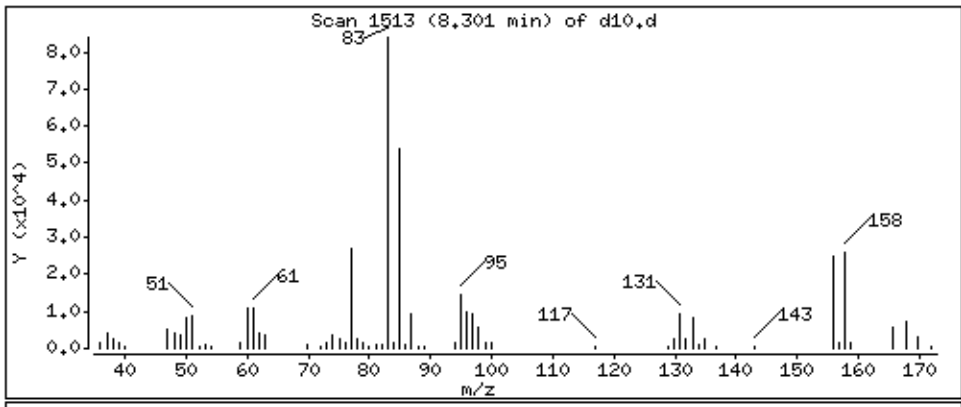
Operator: grm

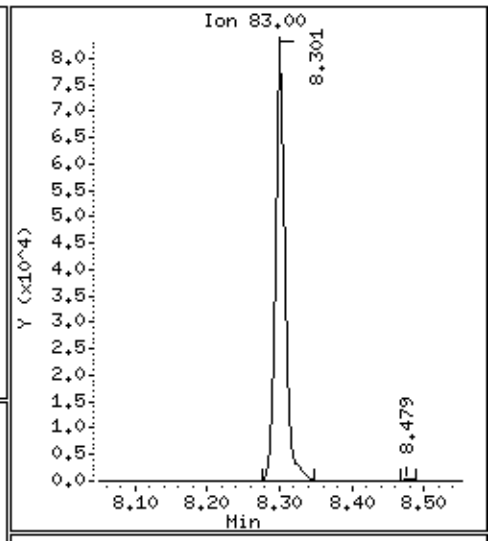
Column phase: DB-624

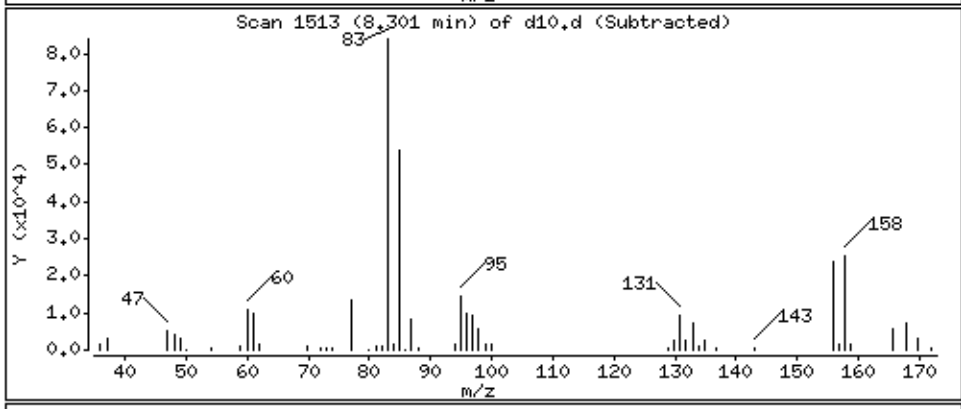
Column diameter: 0.18

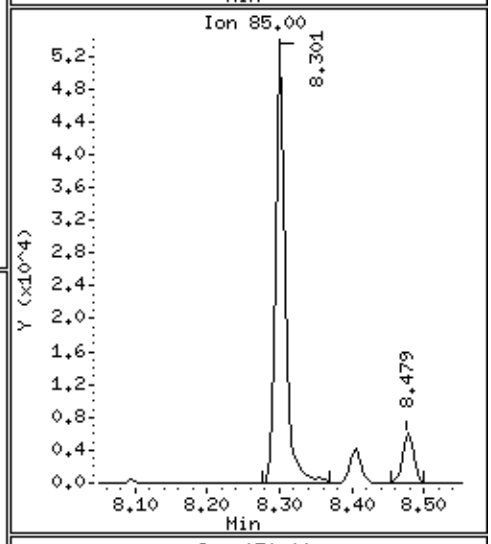
79 1,1,2,2-Tetrachloroethane

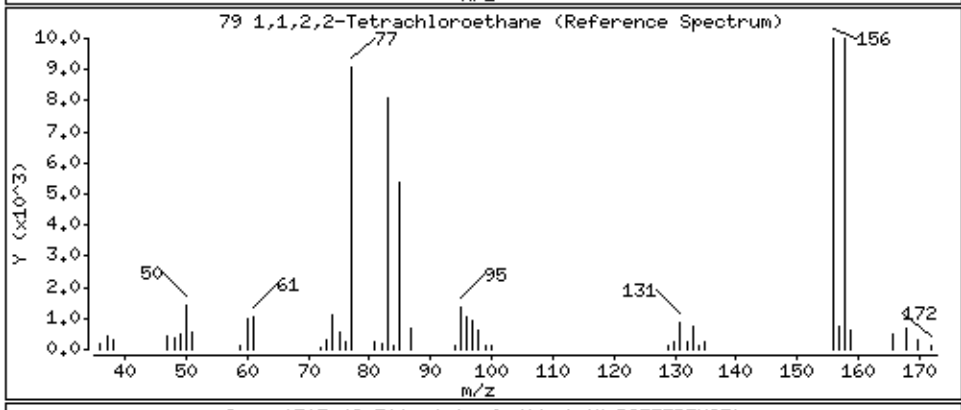
Concentration: 276 ppb

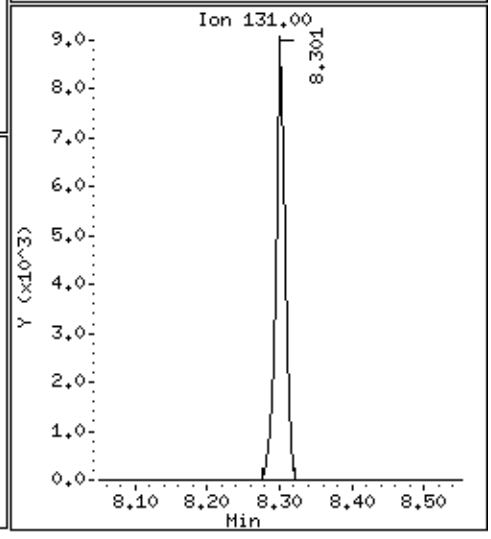


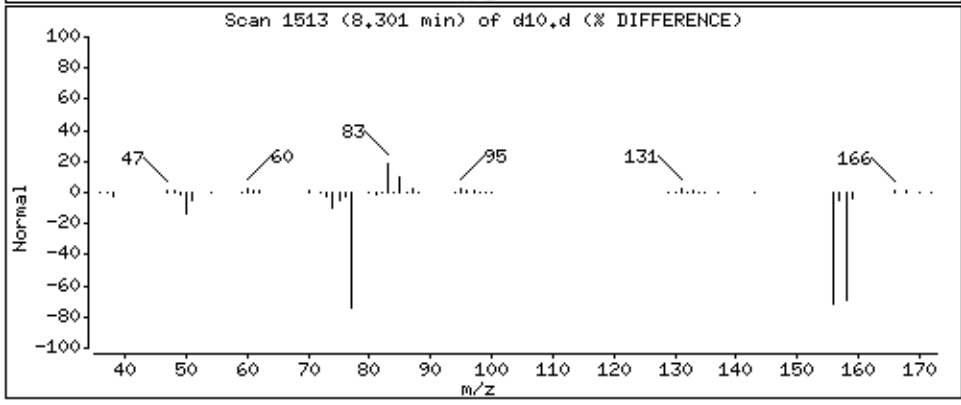












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

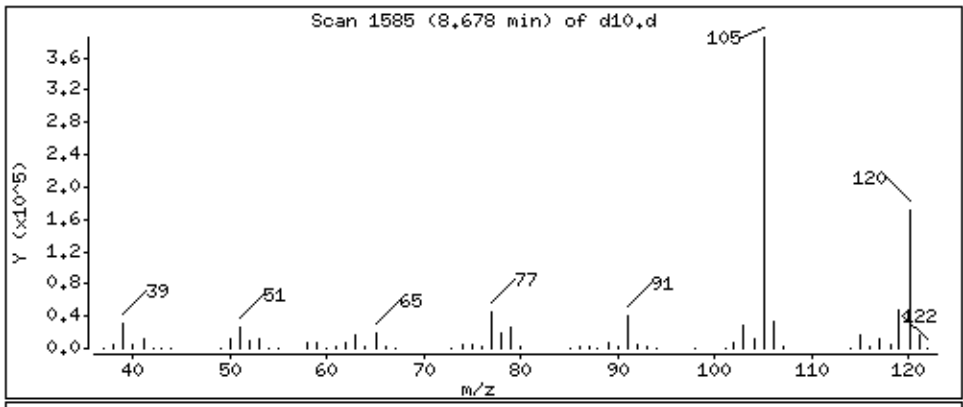
Operator: grm

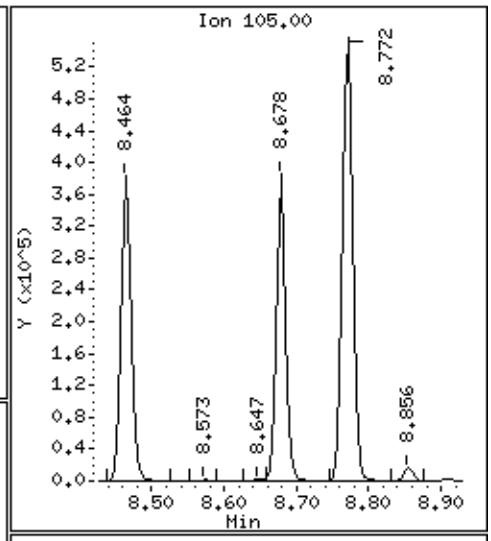
Column phase: DB-624

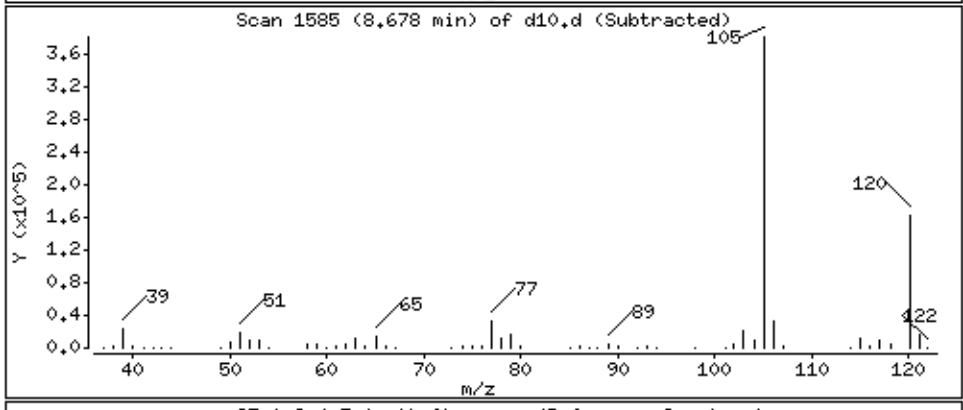
Column diameter: 0.18

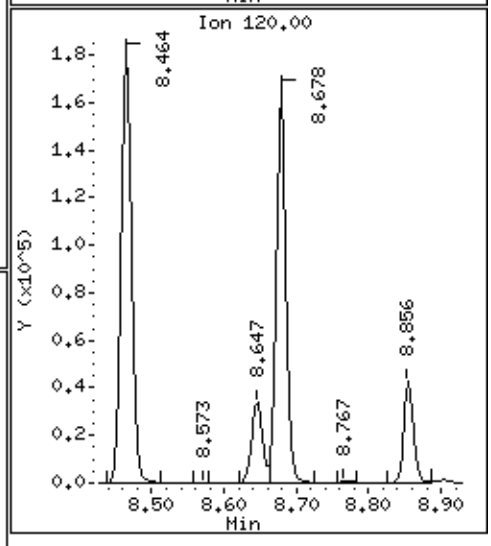
87 1,2,4-Trimethylbenzene

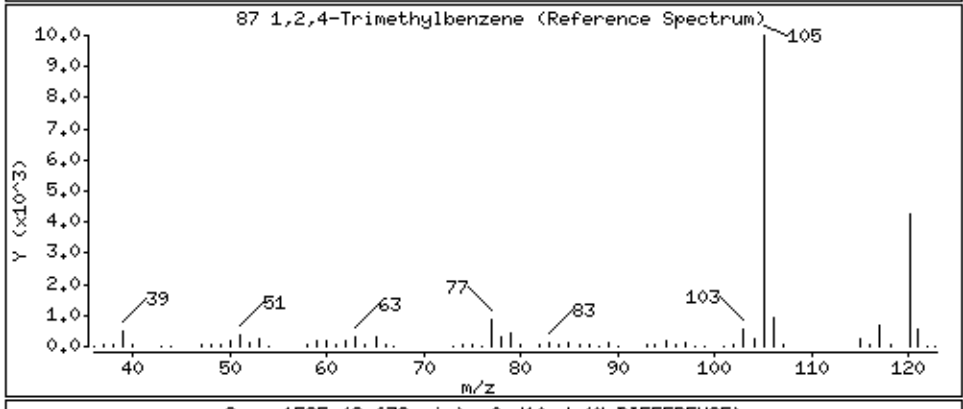
Concentration: 254 ppb

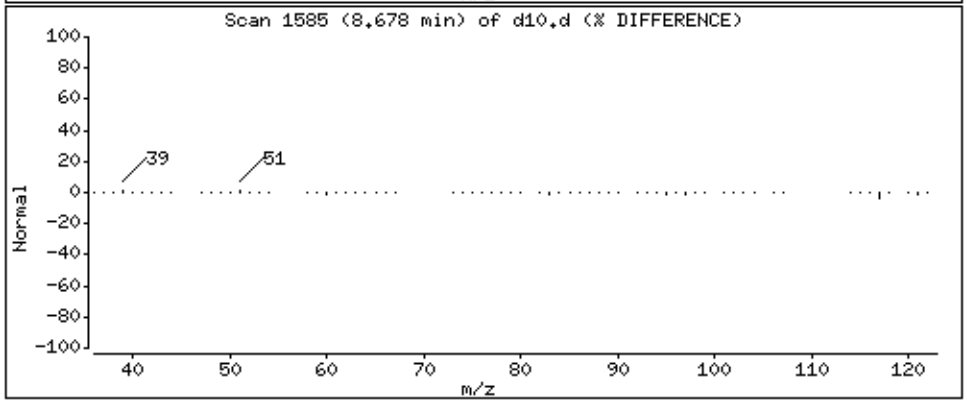












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b\d10.d

Date : 18-MAR-2016 05:51

Client ID: MW-0621-S1(030916)M

Instrument: 50mv1b.i

Sample Info: 1500387x5,117024:5

Purge Volume: 5.0

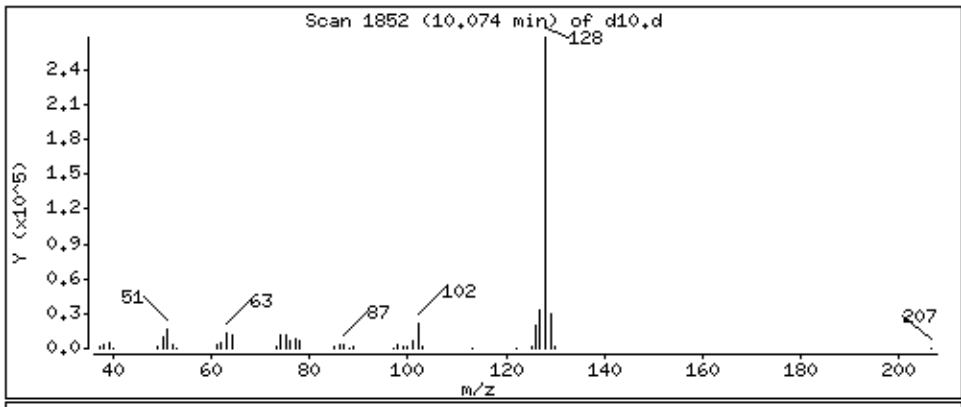
Operator: grm

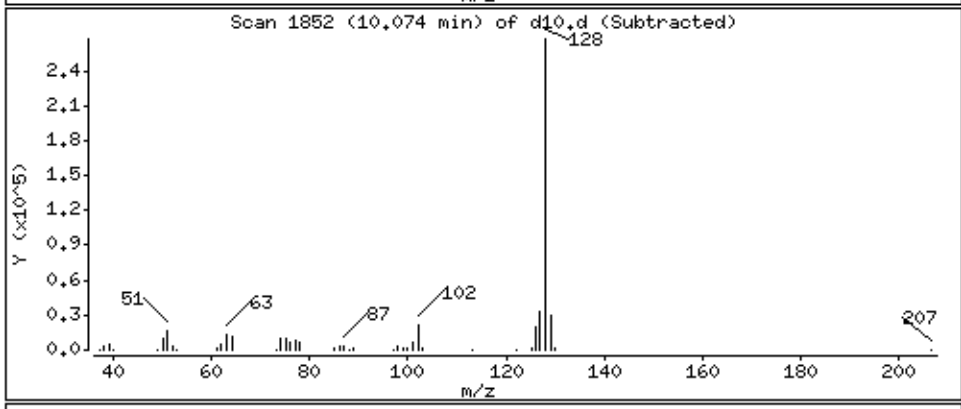
Column phase: DB-624

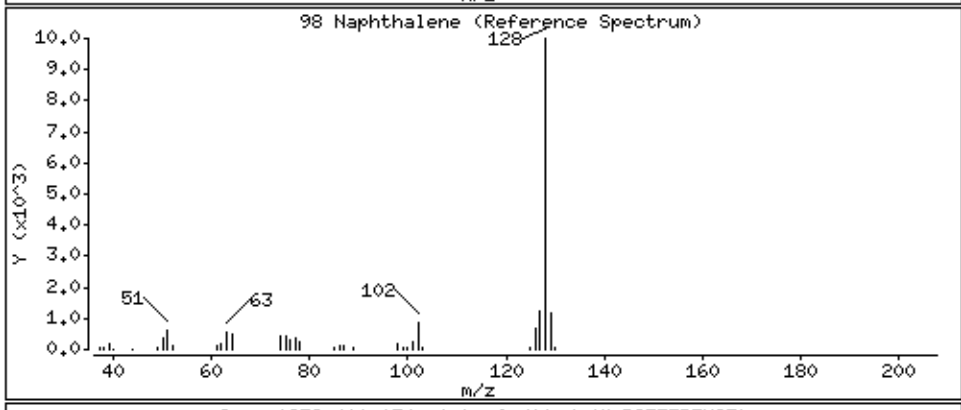
Column diameter: 0.18

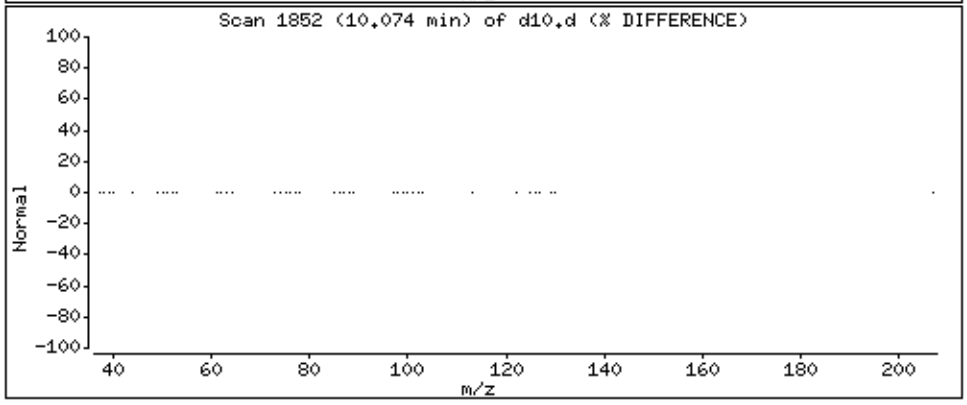
98 Naphthalene

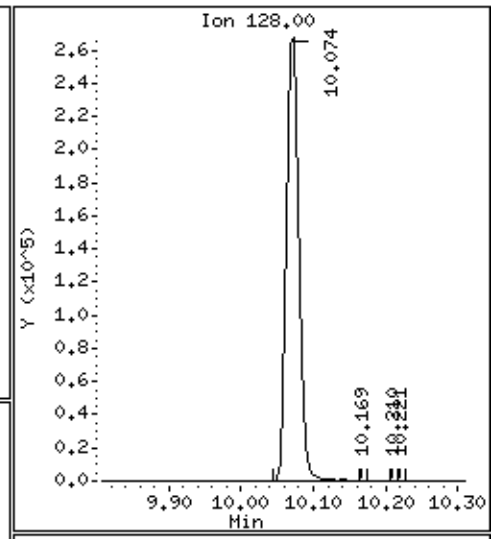
Concentration: 246 ppb

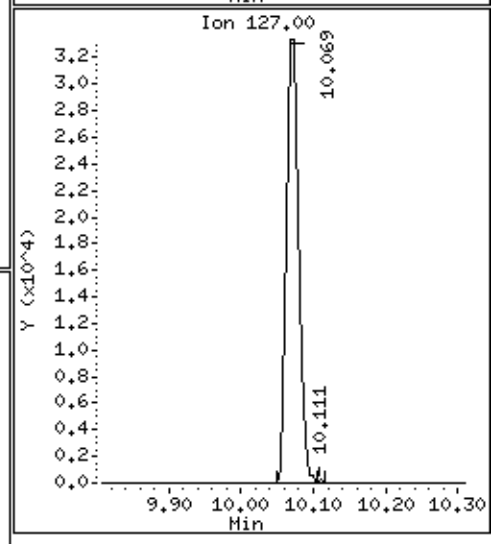












Data File: \\192.168.50.6\chem\50mv1b.i\b031716.b/d10.d
Injection Date: 18-MAR-2016 05:51
Instrument: 50mv1b.i
Lab Sample ID: 1500387
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 14:18 Lab Sample ID: 1501284

Date Analyzed: 03/18/2016 14:18 Lab File ID: B031816.B\B03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 14:18 Lab Sample ID: 1501284

Date Analyzed: 03/18/2016 14:18 Lab File ID: B031816.B\B03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d
Lab Smp Id: 1501284 Client Smp ID: MBw
Inj Date : 18-MAR-2016 14:18
Operator : grm Inst ID: 50mv1b.i
Smp Info : mbw
Misc Info : 88079
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031816.b\b8260_a_c.m
Meth Date : 20-Mar-2016 20:59 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 54 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.026	1.013	(0.243)	3055	0.88945	0.889	
	18 Methylene Chloride	84	1.899	1.902	(0.449)	1969	1.19926	1.20(Q)	
	24 n-Hexane	57	2.260	2.258	(0.534)	2275	0.85218	0.852	
$	38 Dibromofluoromethane (S)	113	3.401	3.398	(0.804)	77285	51.7564	51.8	
*	46 Fluorobenzene (IS)	96	4.232	4.230	(1.000)	287557	50.0000		
$	57 Toluene-d8	98	6.073	6.076	(0.822)	273133	49.5390	49.5	
	58 Toluene	91	6.146	6.149	(0.832)	3976	0.58795	0.588	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.389	(1.000)	212340	50.0000		
	71 m&p-Xylene	106	7.590	7.593	(1.027)	980	0.32763	0.328	
$	76 4-Bromofluorobenzene	95	8.207	8.210	(1.110)	101840	52.8331	52.8	
	83 2-Chlorotoluene	91	8.406	8.403	(0.946)	954	0.17953	0.180	
	87 1,2,4-Trimethylbenzene	105	8.678	8.675	(0.976)	734	0.11163	0.112	
	89 1,3-Dichlorobenzene	146	8.845	8.843	(0.995)	635	0.16205	0.162	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.884	(1.000)	113850	50.0000		
	92 1,4-Dichlorobenzene	146	8.897	8.900	(1.001)	845	0.21489	0.215(Q)	
	94 1,2-Dichlorobenzene	146	9.096	9.094	(1.024)	601	0.17444	0.174(Q)	
	100 2,methyl-naphthalene	142	10.712	10.715	(1.205)	2526	0.64755	0.648	

QC Flag Legend

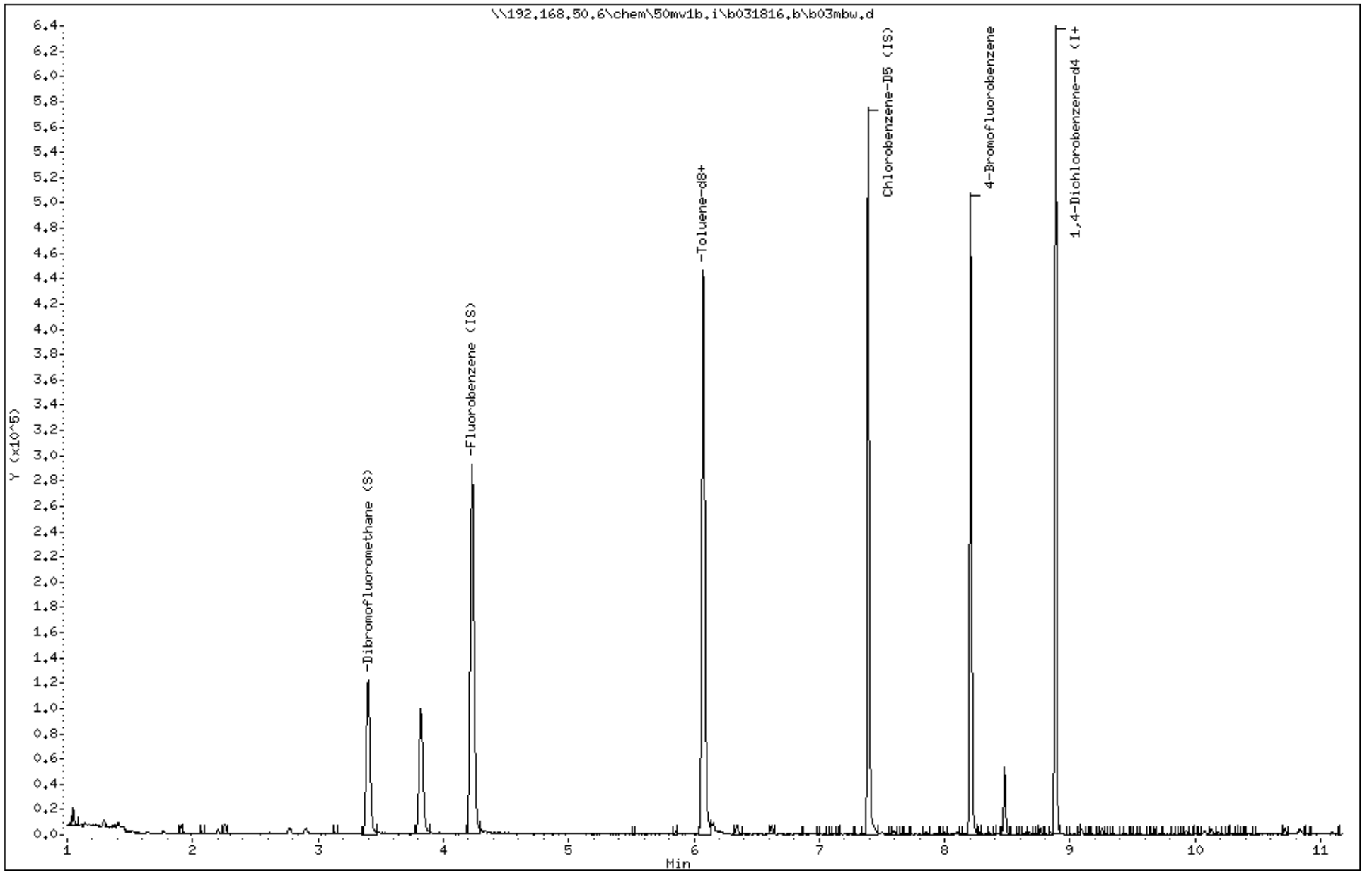
Q - Qualifier signal failed the ratio test.

QC Flag Legend

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d
Date : 18-MAR-2016 14:18
Client ID: MBw
Instrument: 50mv1b.i
Sample Info: MBw
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

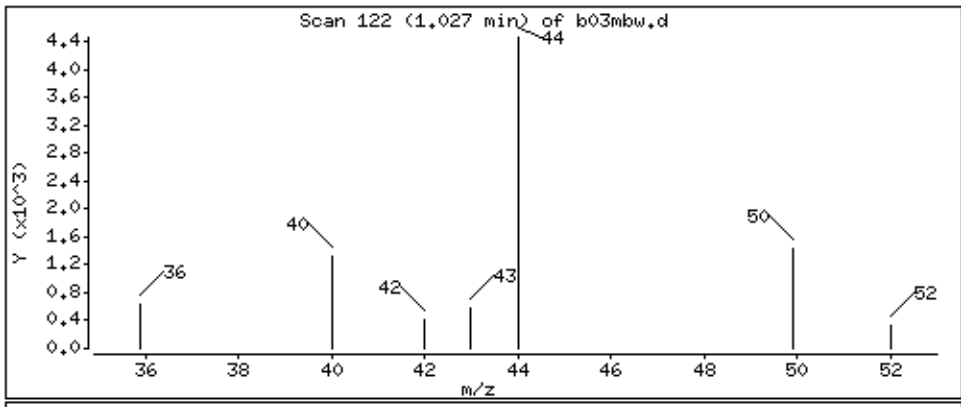
Operator: grm

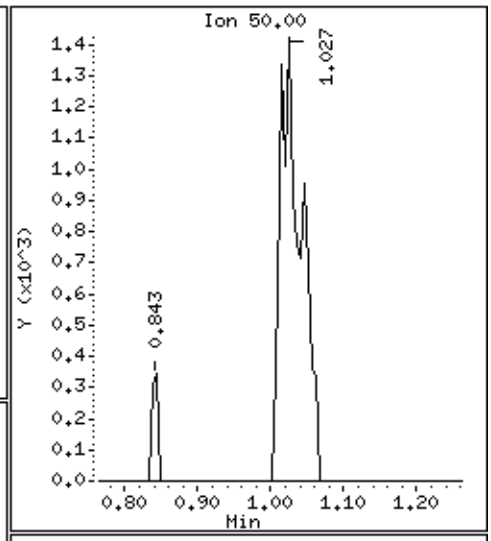
Column phase: DB-624

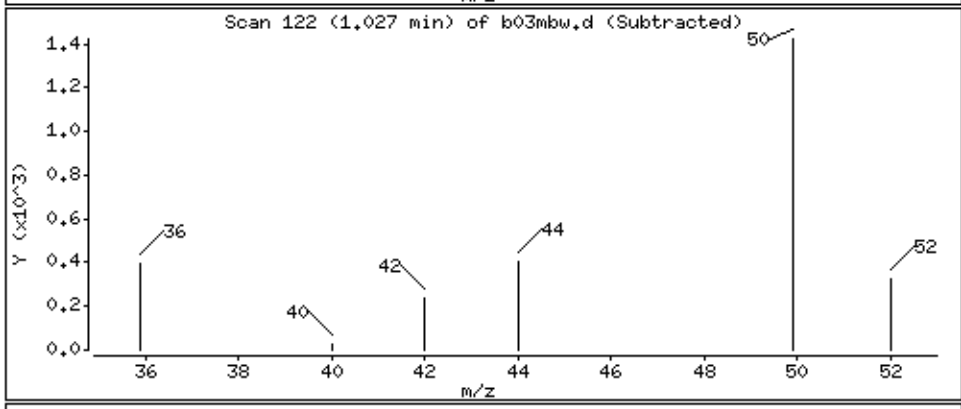
Column diameter: 0.18

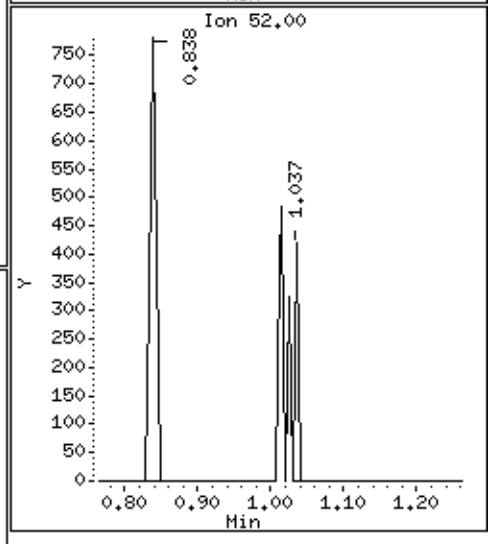
2 Chloromethane

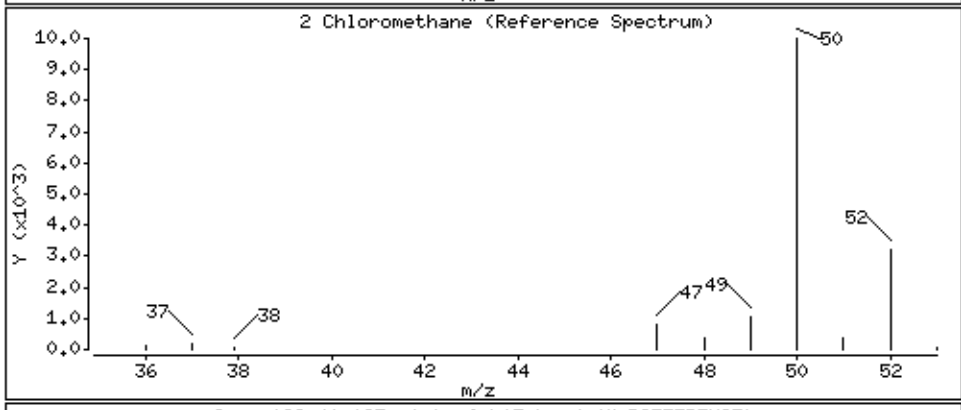
Concentration: 0.889 ppb

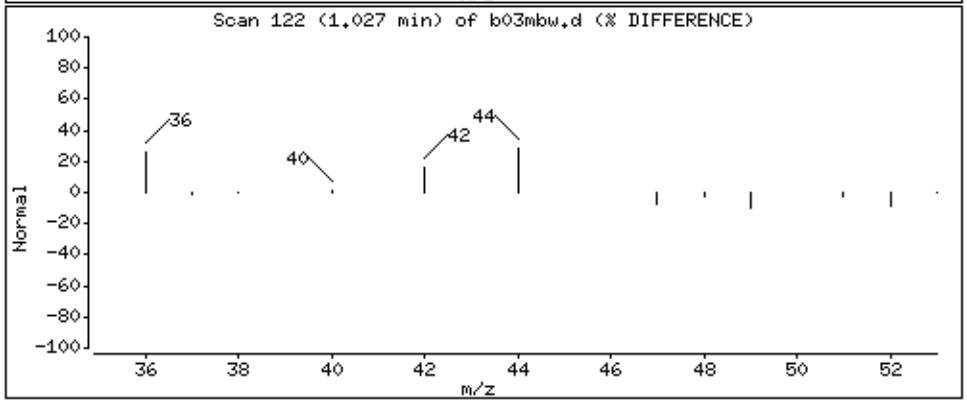












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

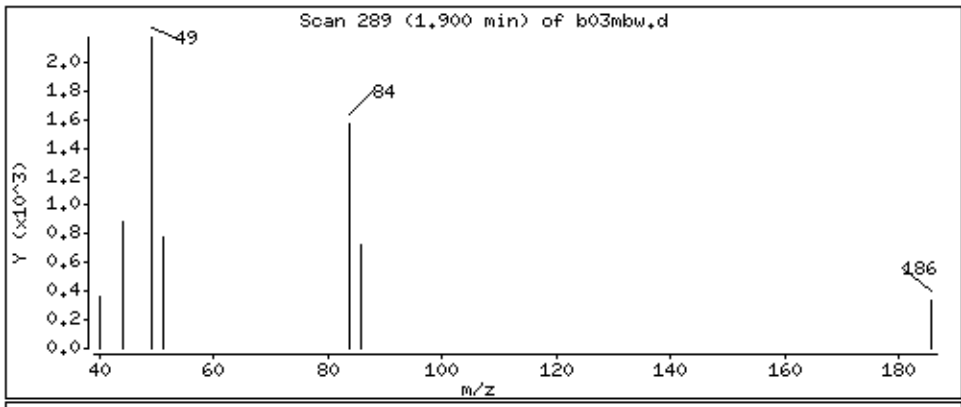
Operator: grm

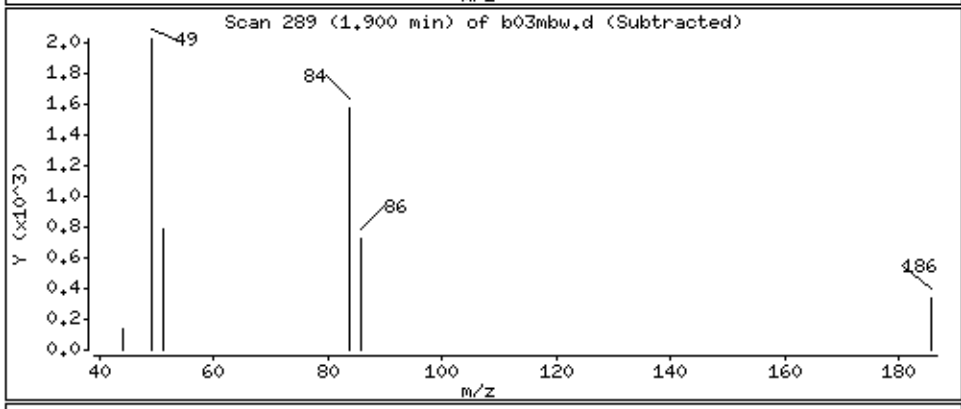
Column phase: DB-624

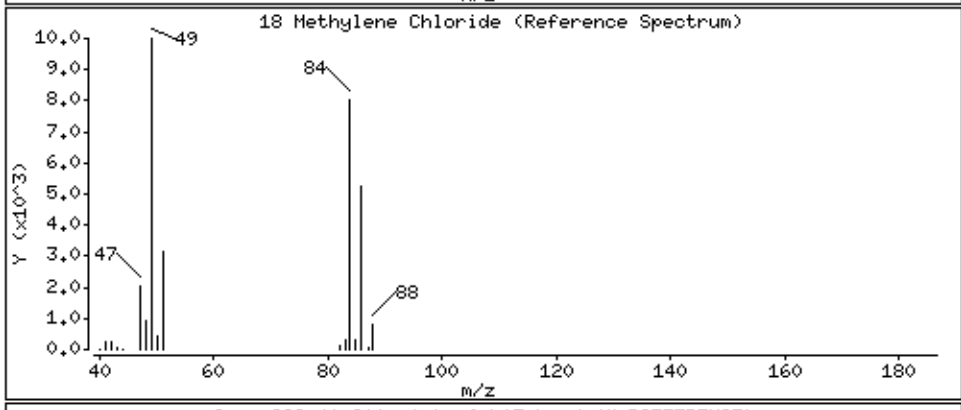
Column diameter: 0.18

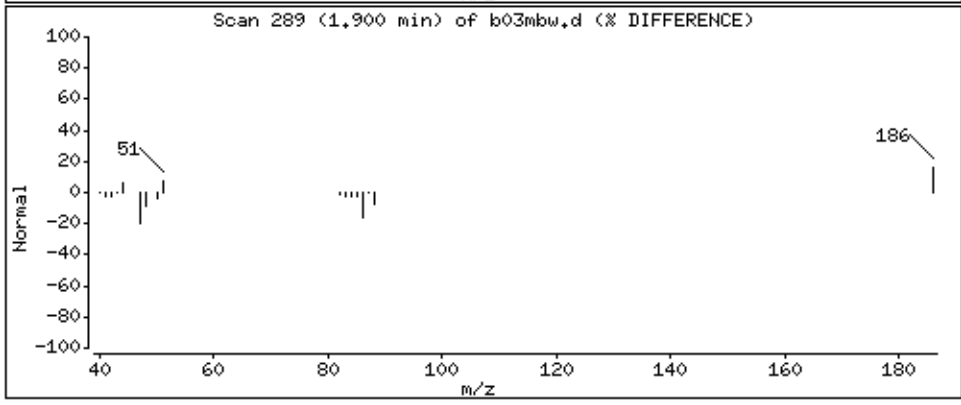
18 Methylene Chloride

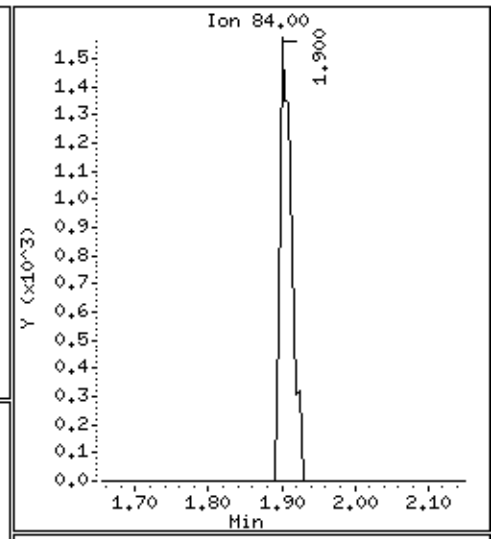
Concentration: 1.20 ppb

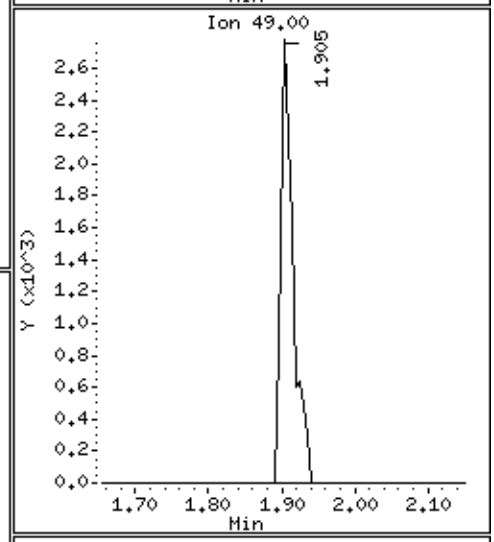


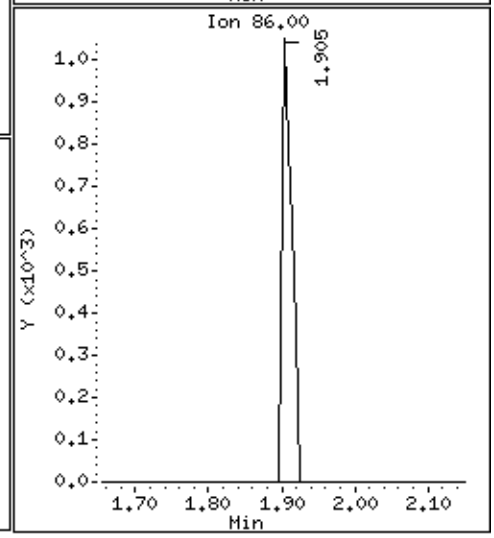












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

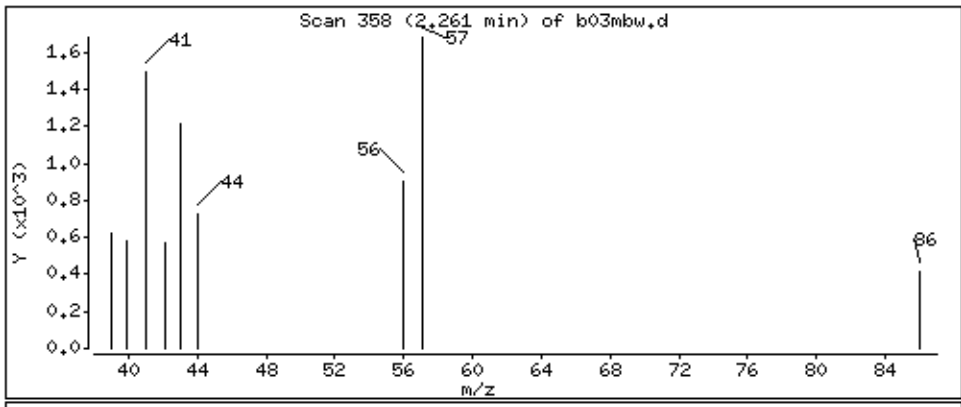
Operator: grm

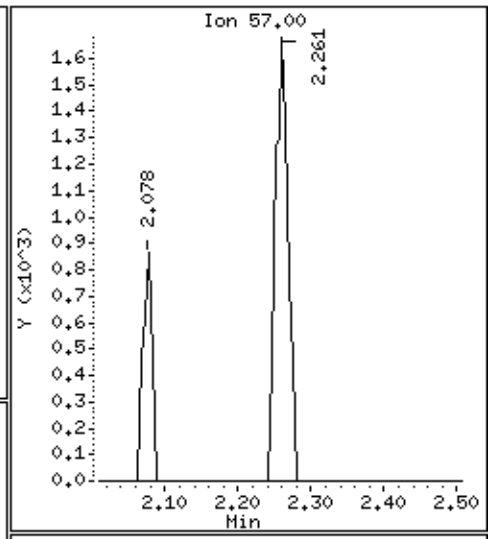
Column phase: DB-624

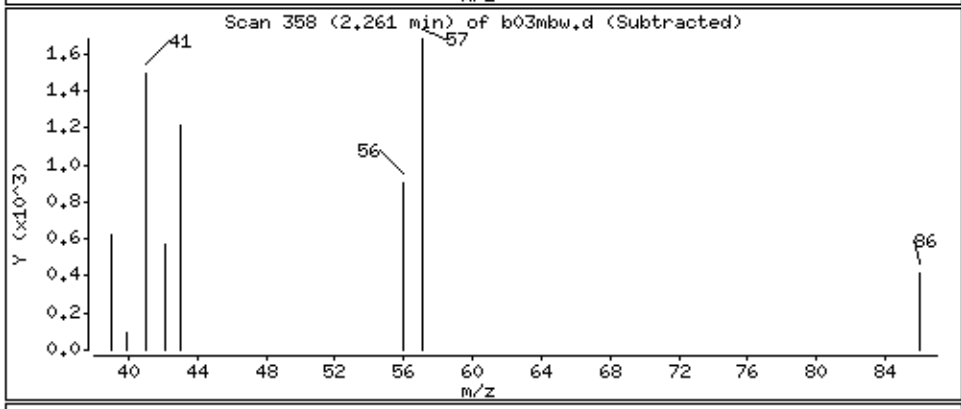
Column diameter: 0.18

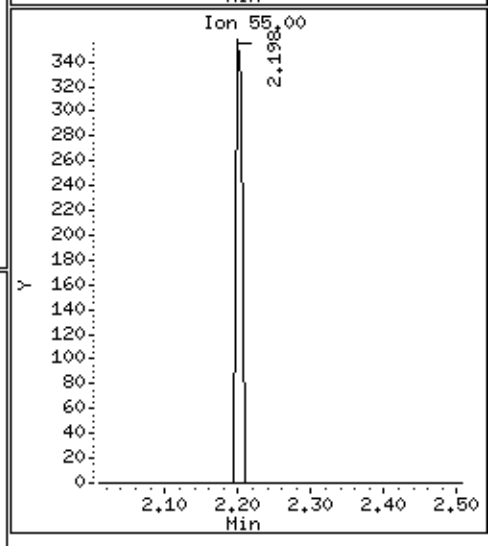
24 n-Hexane

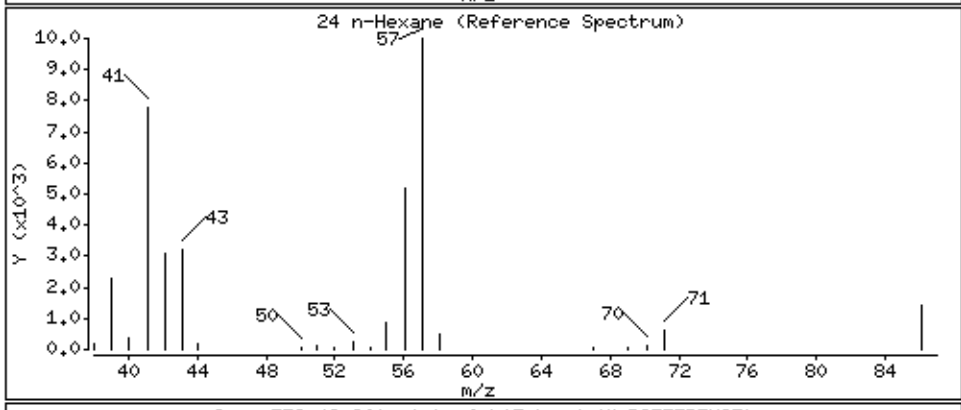
Concentration: 0.852 ppb

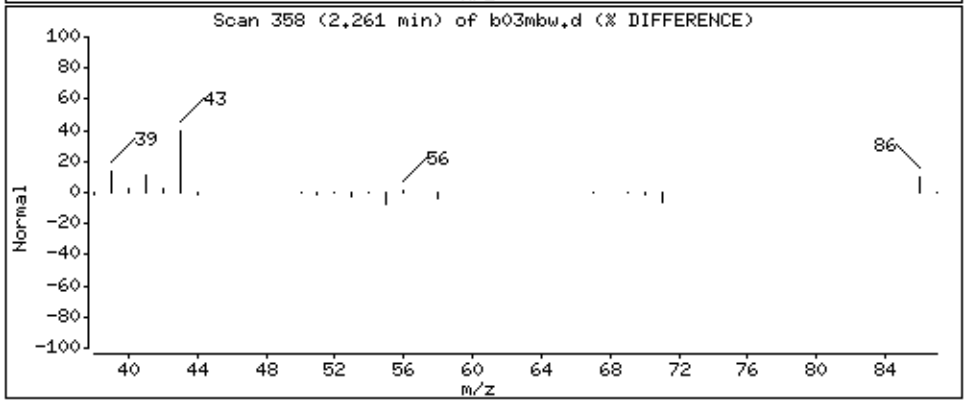












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

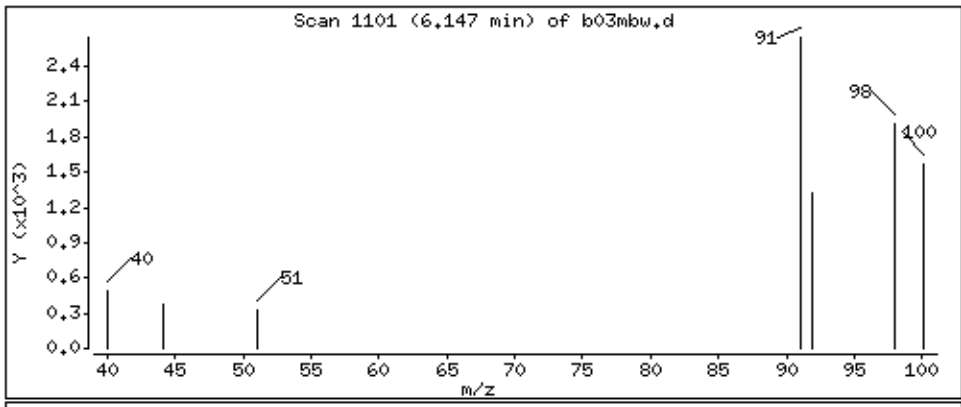
Operator: grm

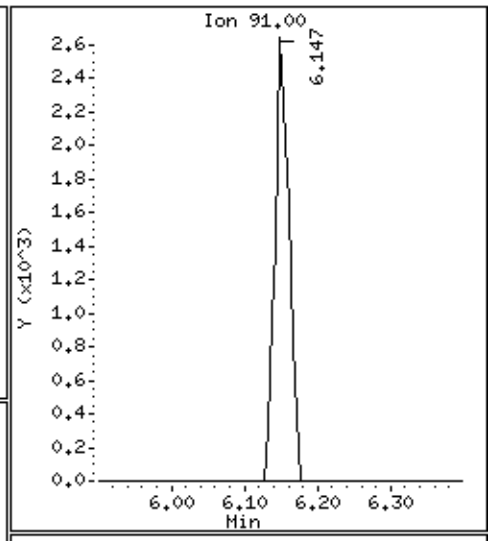
Column phase: DB-624

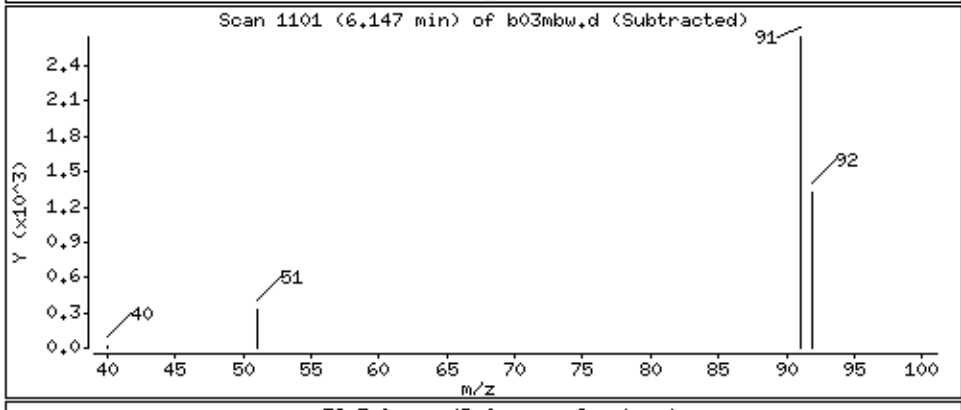
Column diameter: 0.18

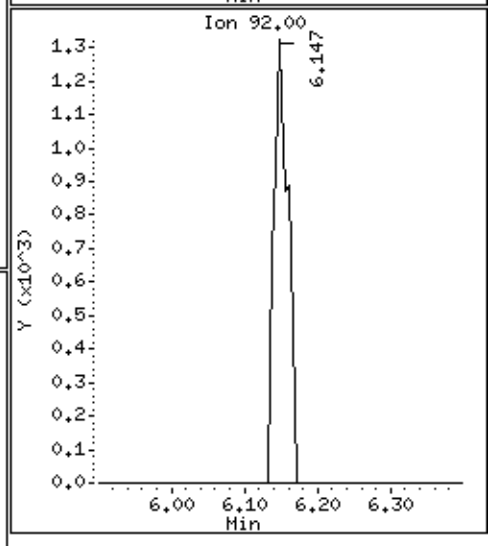
58 Toluene

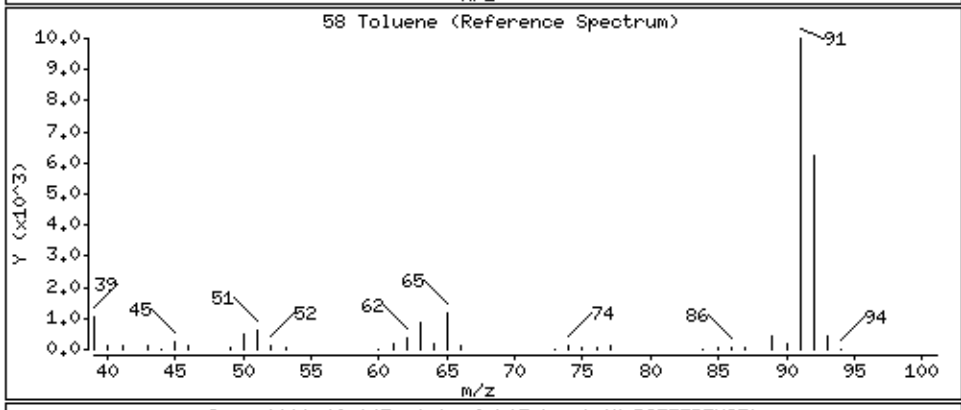
Concentration: 0.588 ppb

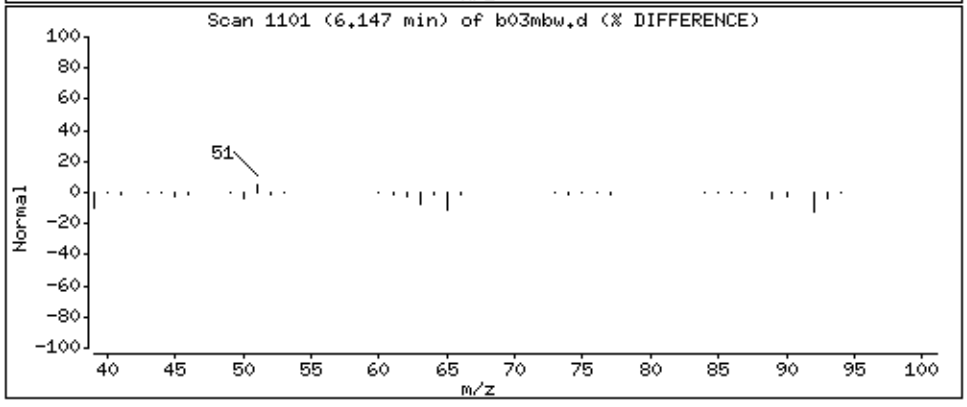












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

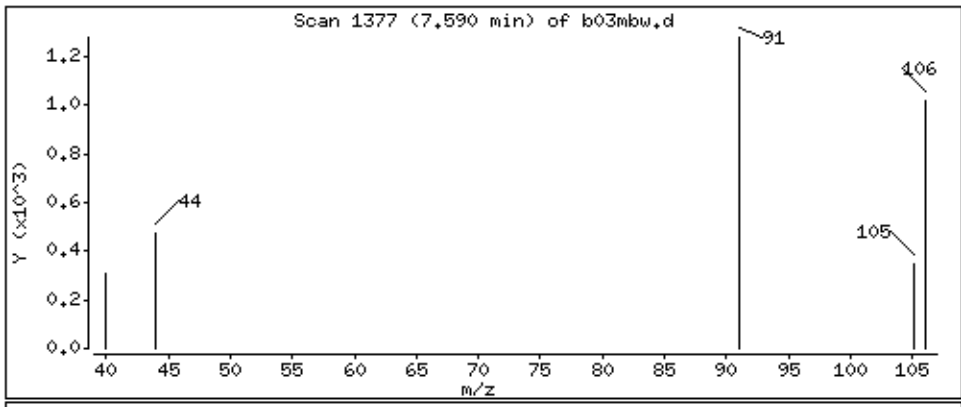
Operator: grm

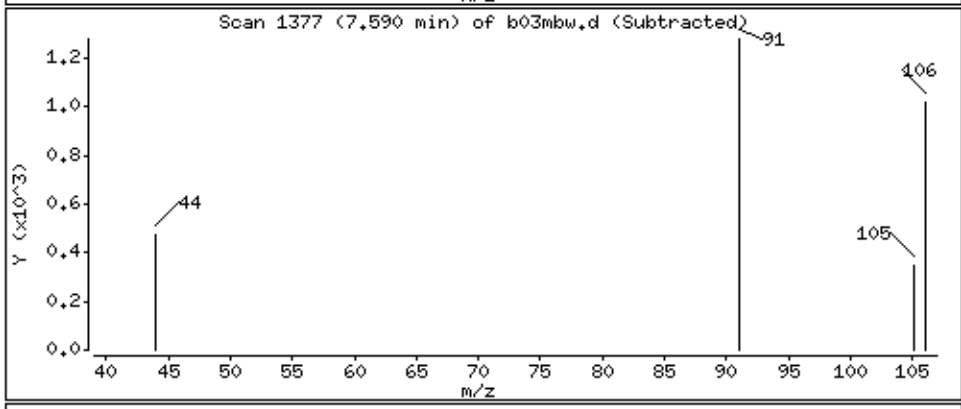
Column phase: DB-624

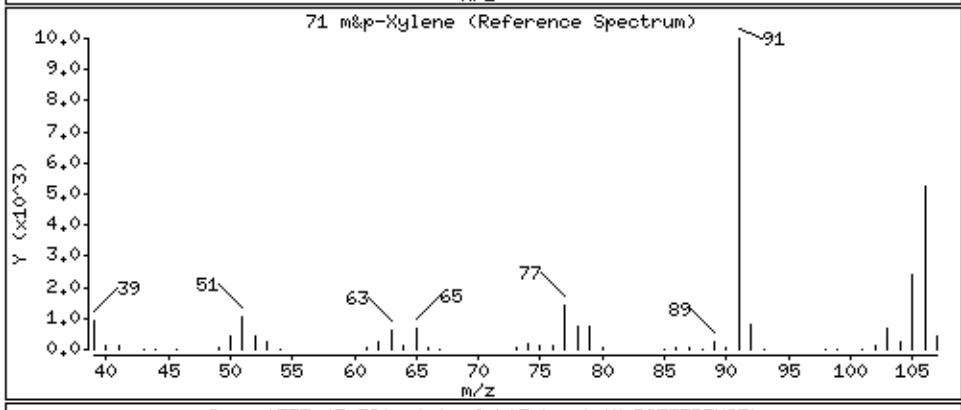
Column diameter: 0.18

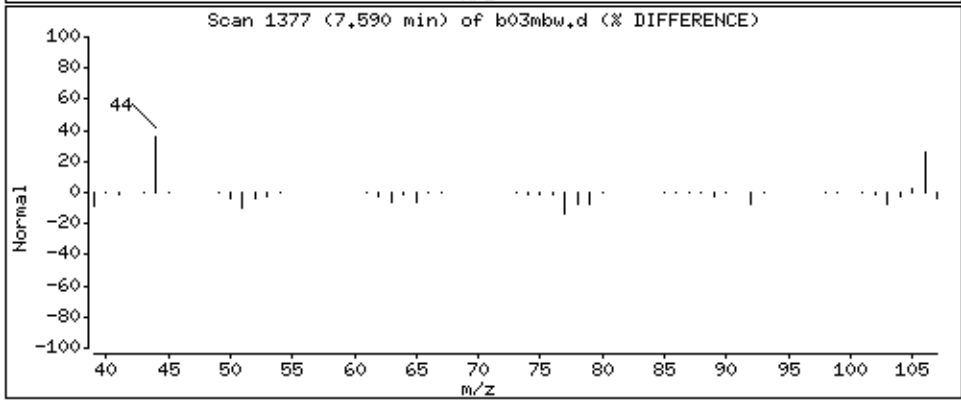
71 m&p-Xylene

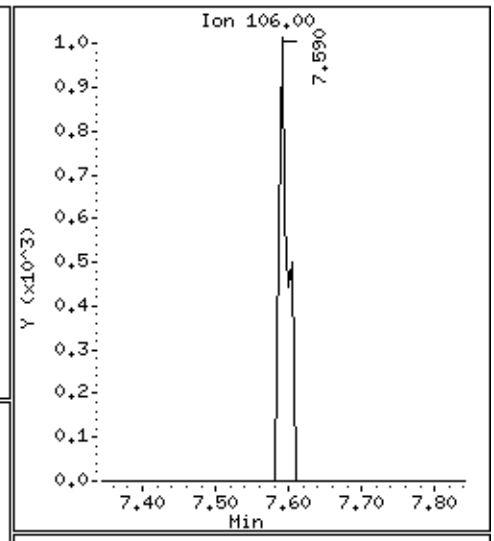
Concentration: 0.328 ppb

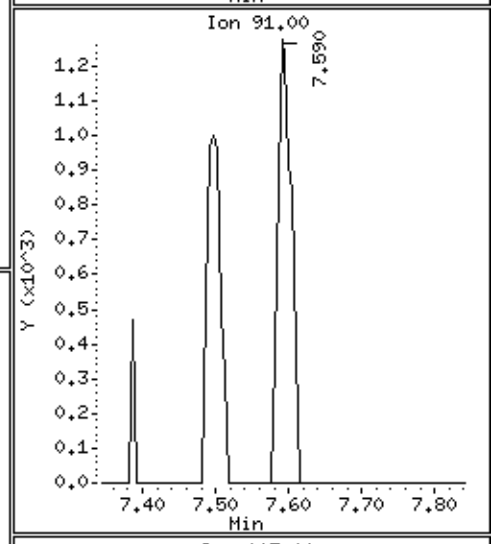


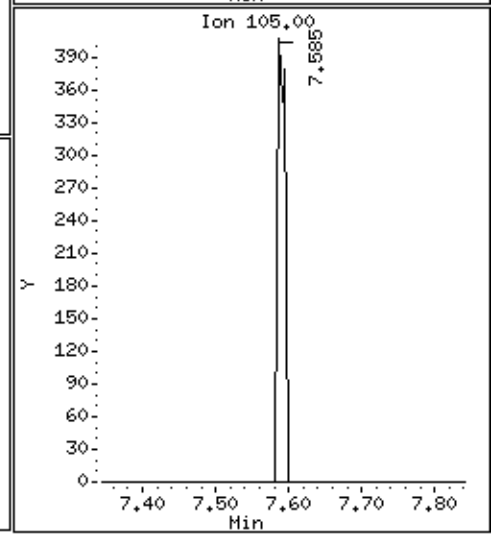












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

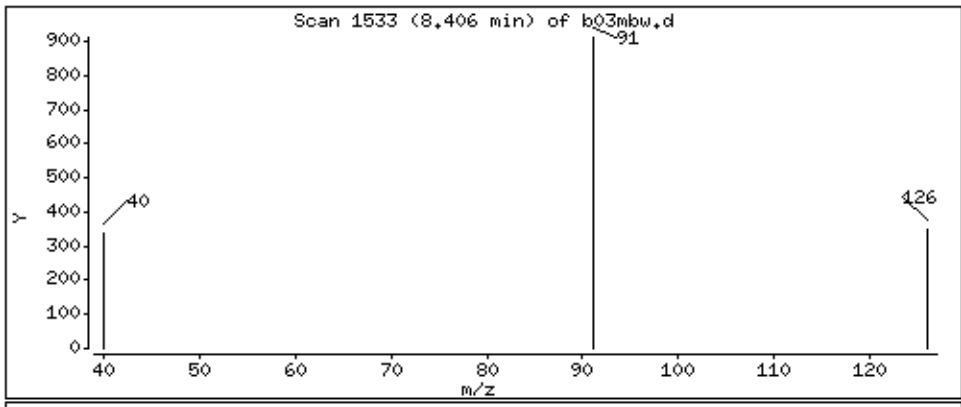
Operator: grm

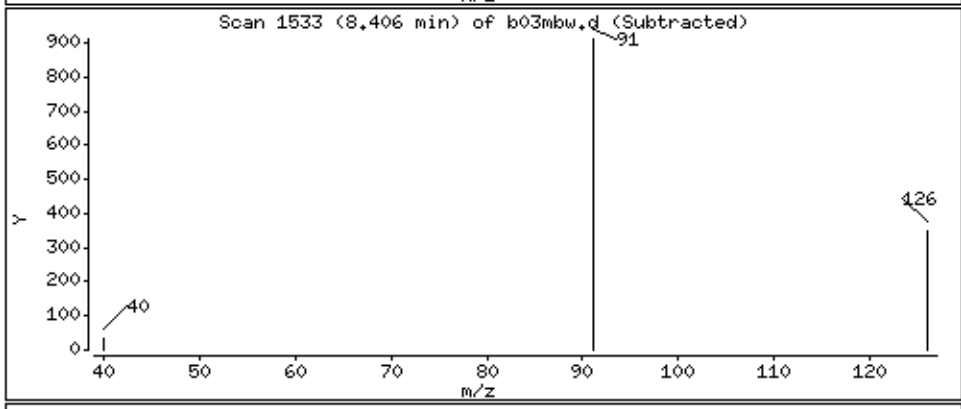
Column phase: DB-624

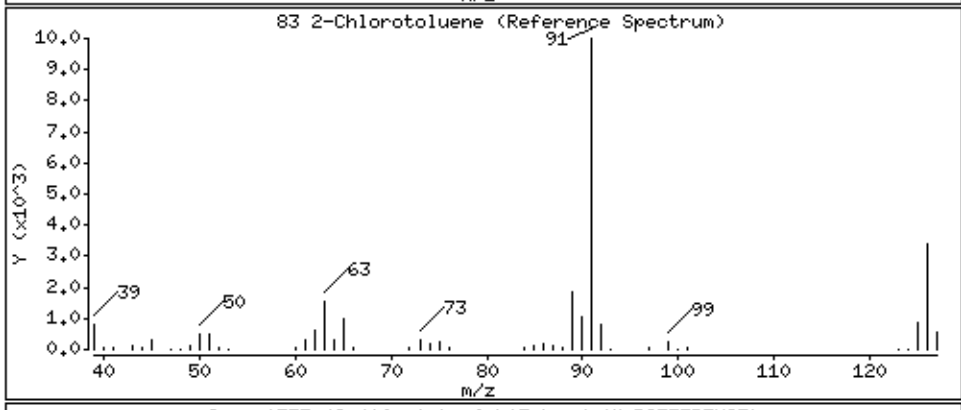
Column diameter: 0.18

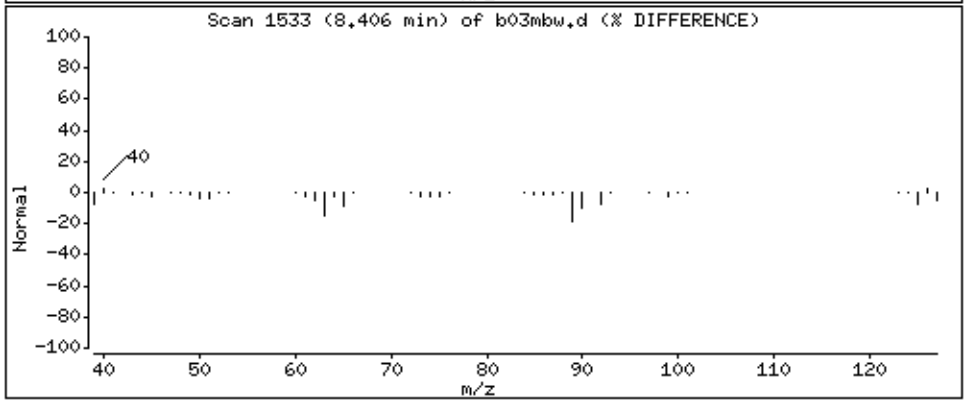
83 2-Chlorotoluene

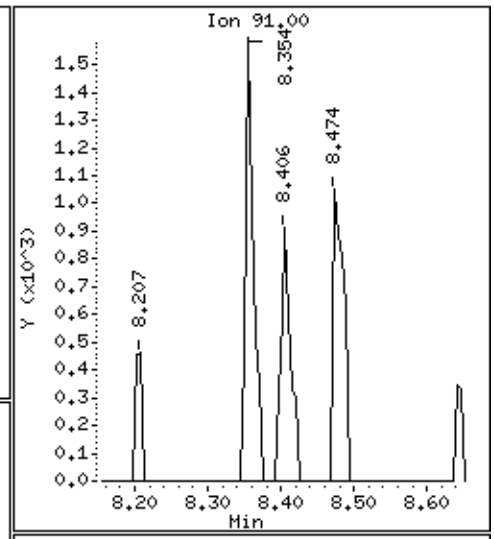
Concentration: 0.180 ppb

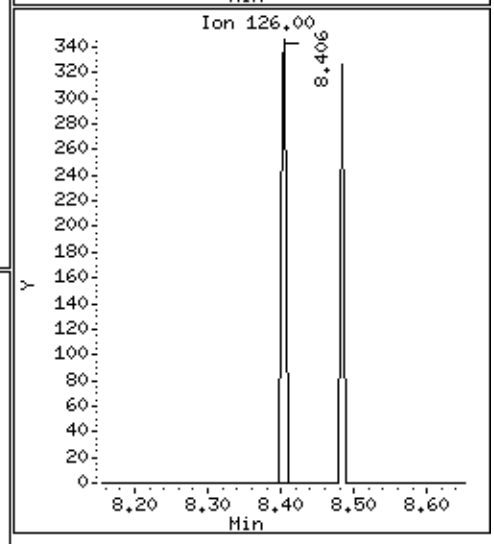












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

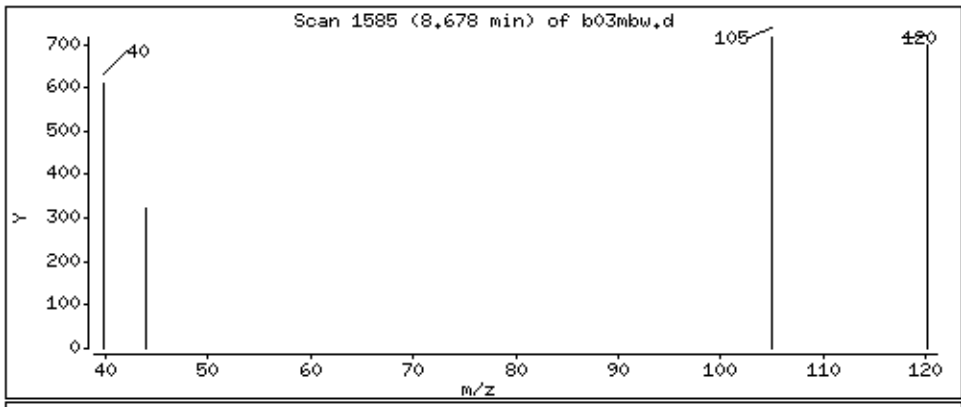
Operator: grm

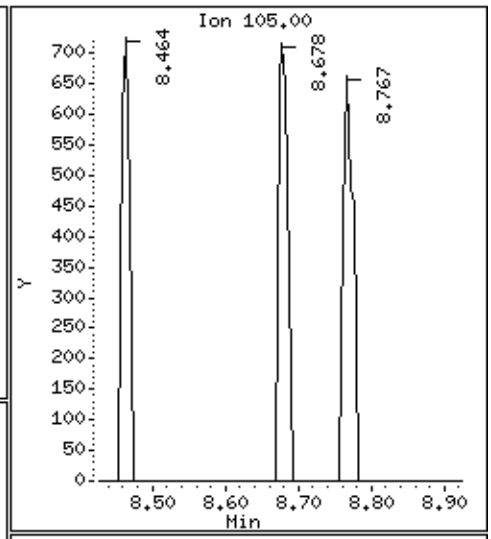
Column phase: DB-624

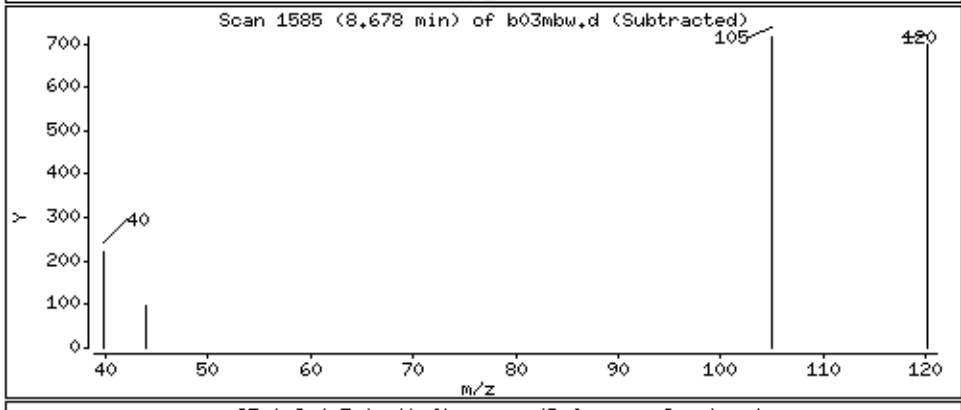
Column diameter: 0.18

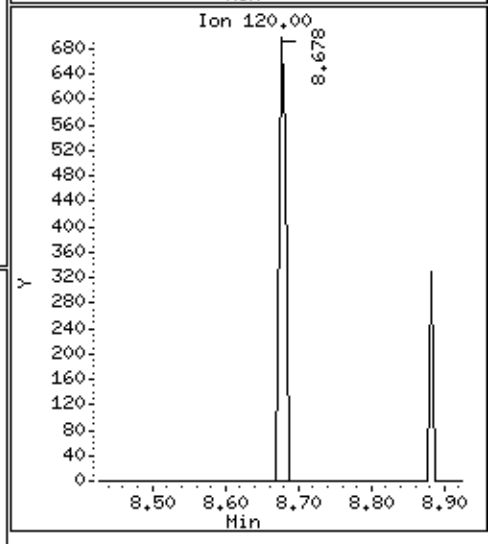
87 1,2,4-Trimethylbenzene

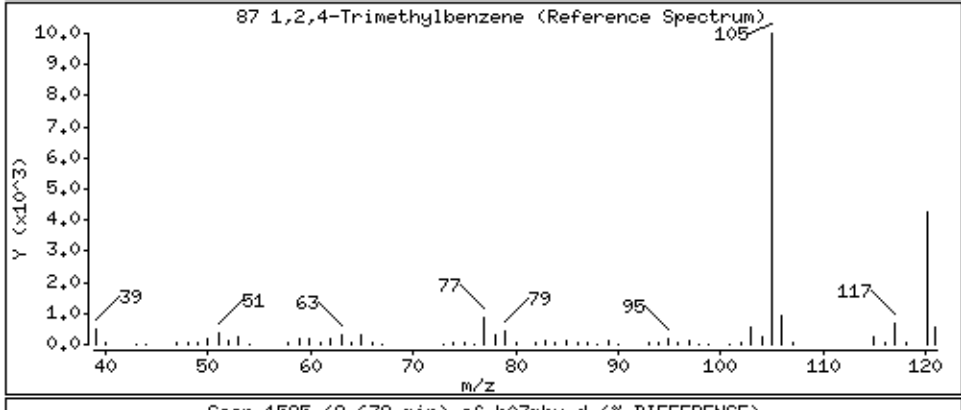
Concentration: 0.112 ppb

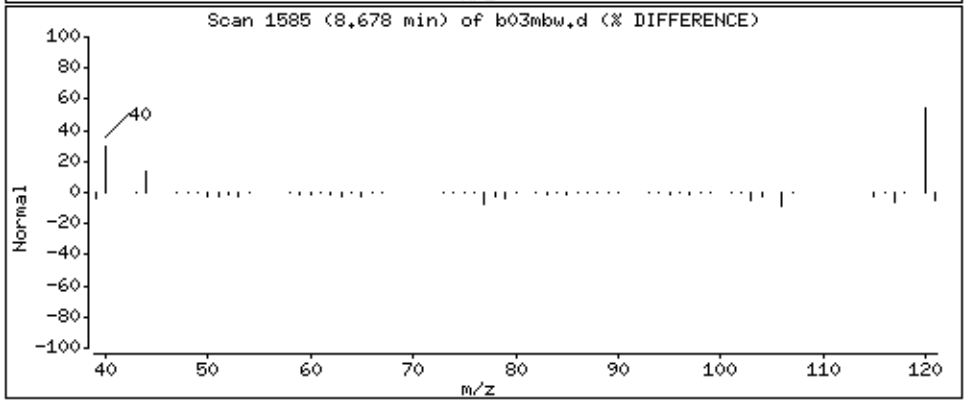












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

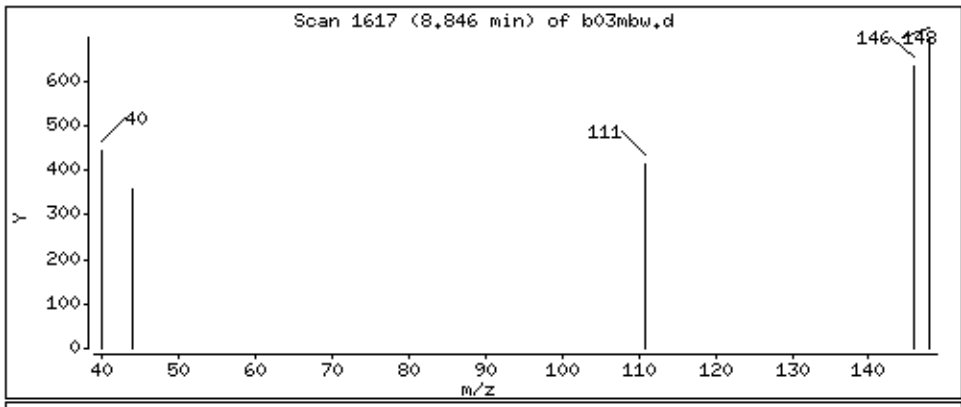
Operator: grm

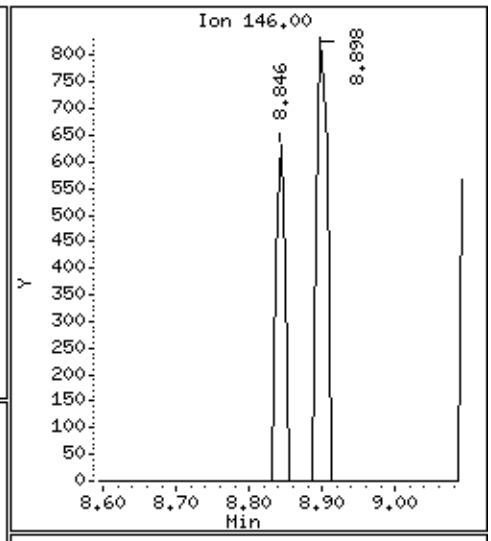
Column phase: DB-624

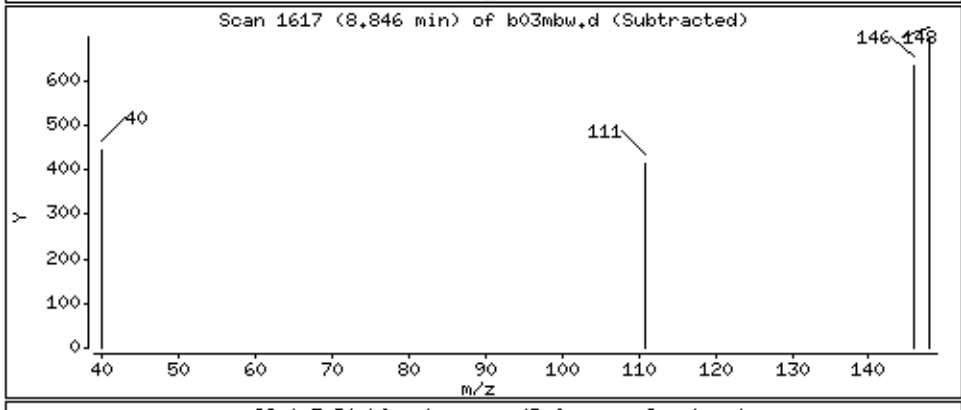
Column diameter: 0.18

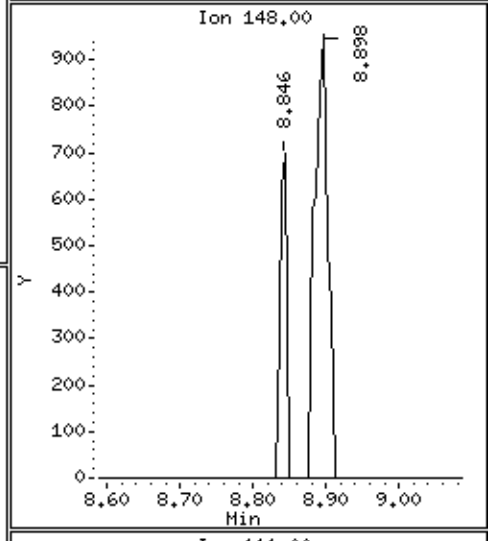
89 1,3-Dichlorobenzene

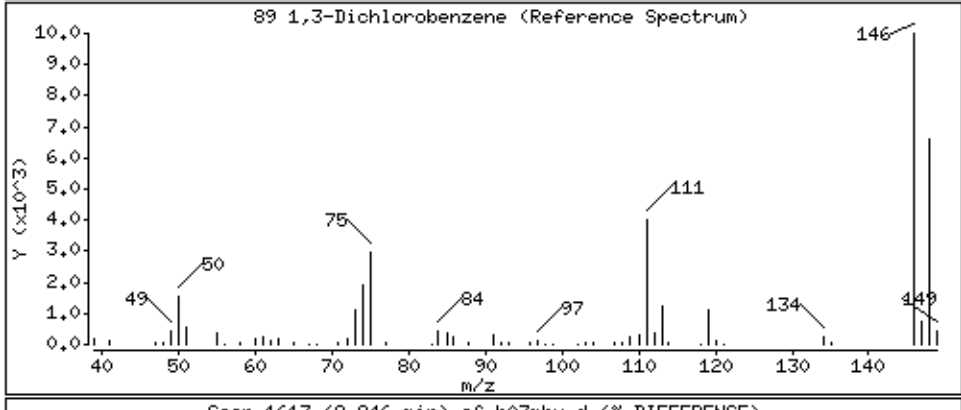
Concentration: 0.162 ppb

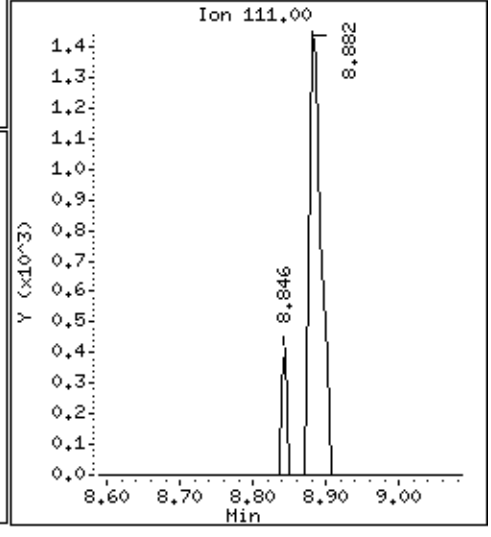


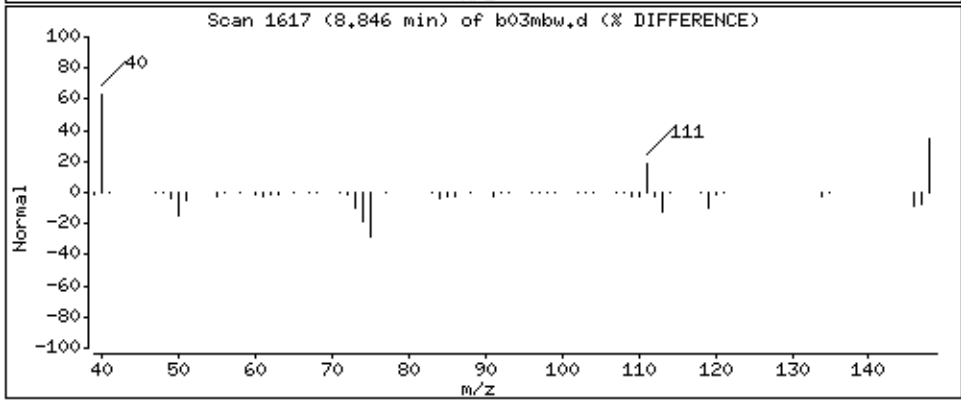












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

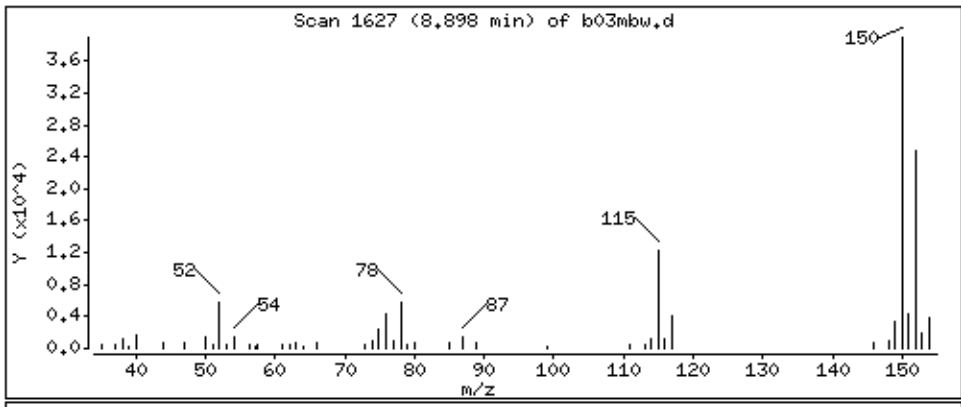
Operator: grm

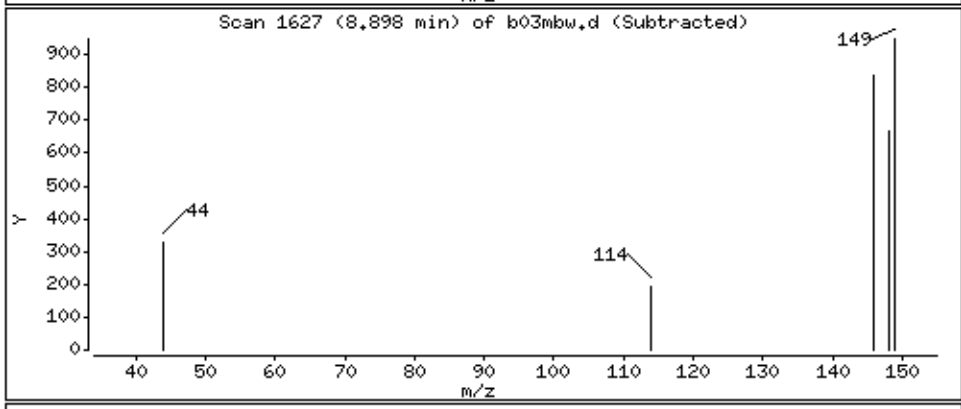
Column phase: DB-624

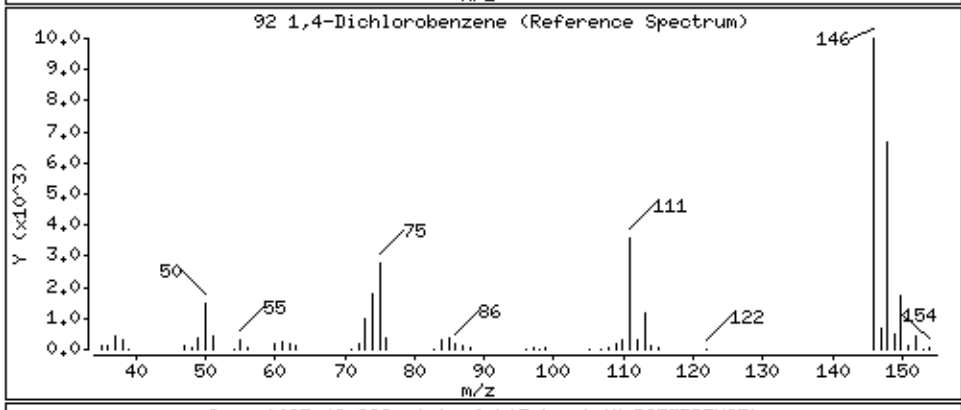
Column diameter: 0.18

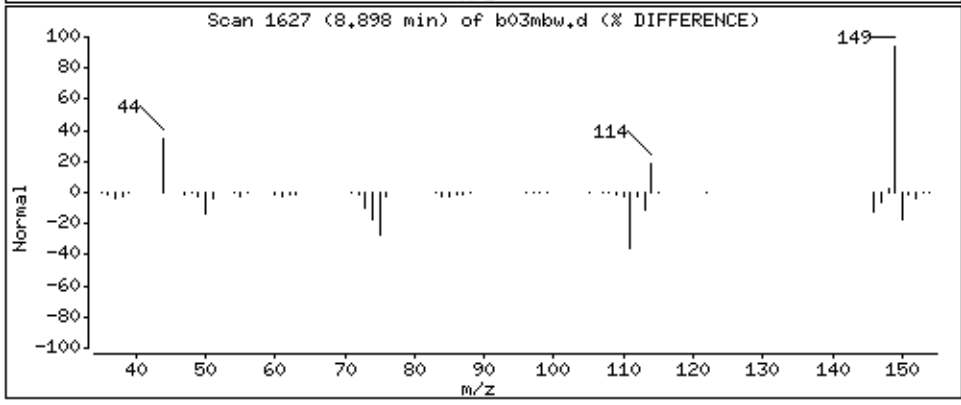
92 1,4-Dichlorobenzene

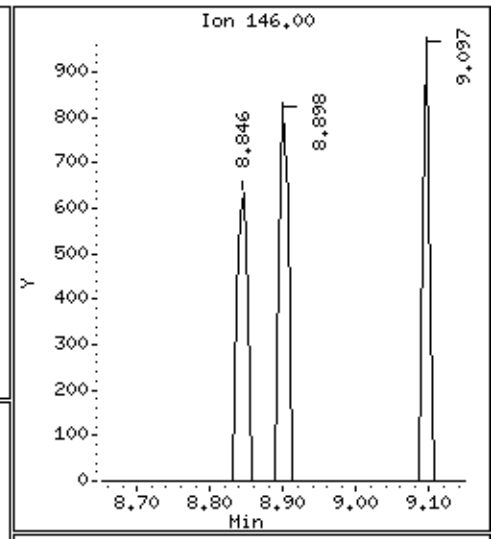
Concentration: 0.215 ppb

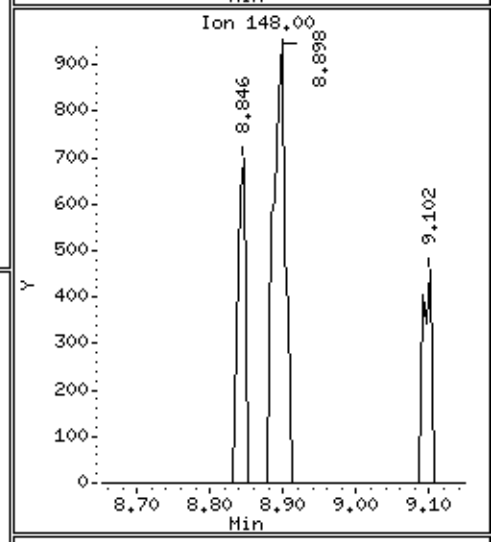


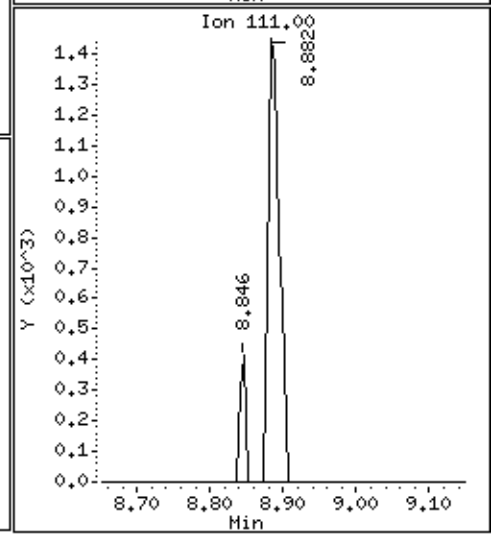












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

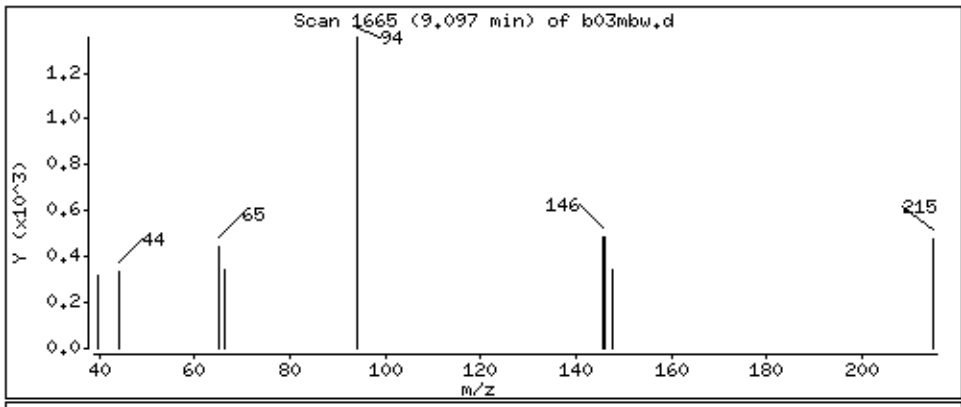
Operator: grm

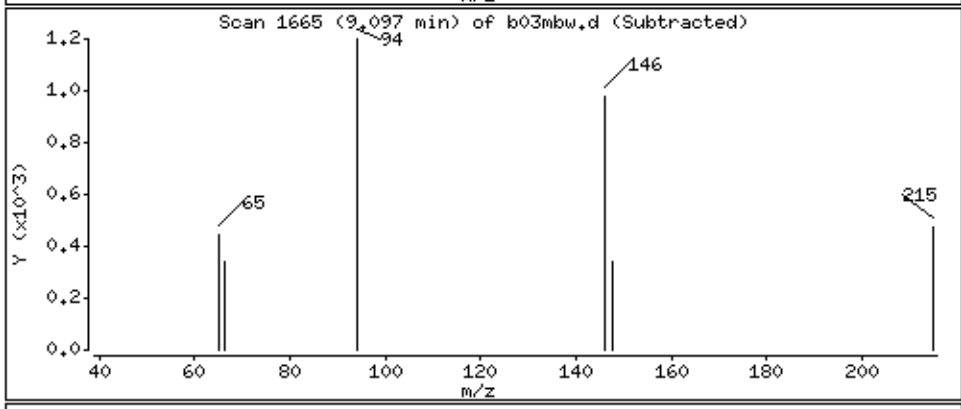
Column phase: DB-624

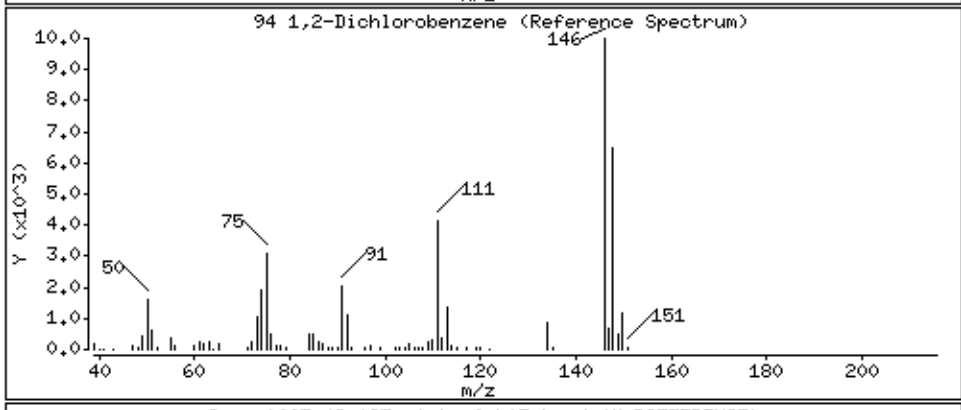
Column diameter: 0.18

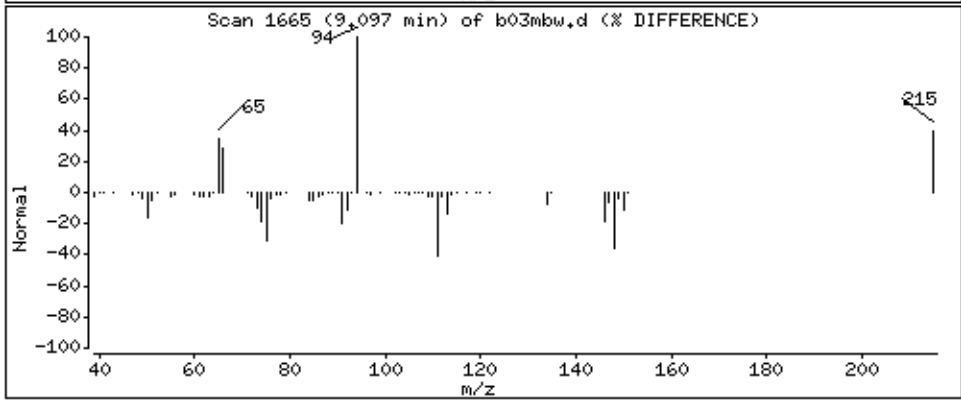
94 1,2-Dichlorobenzene

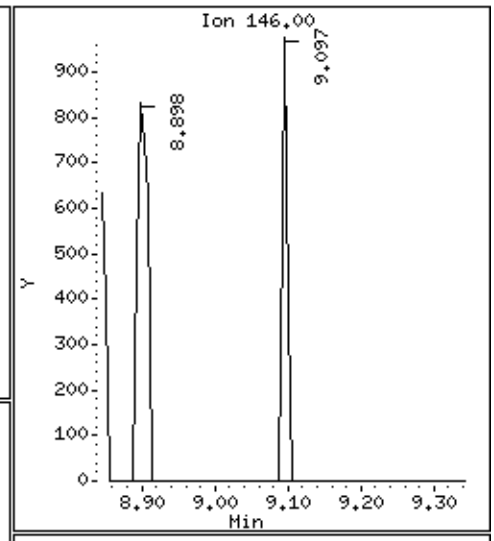
Concentration: 0.174 ppb

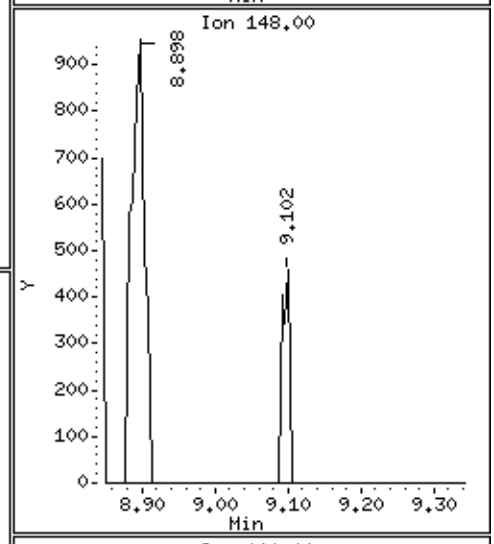


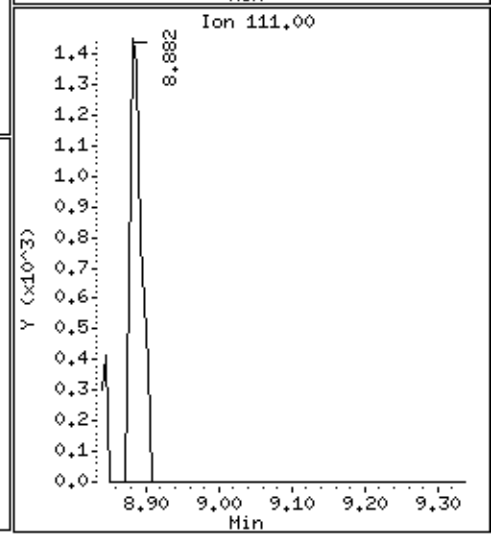












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b03mbw.d

Date : 18-MAR-2016 14:18

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

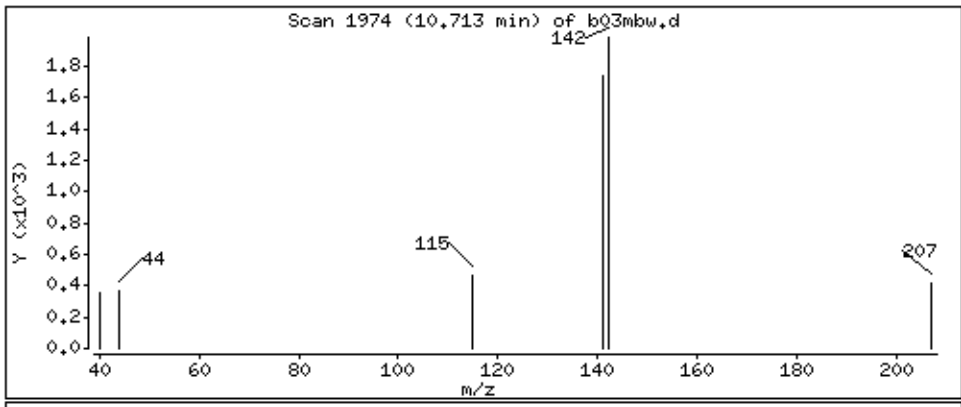
Operator: grm

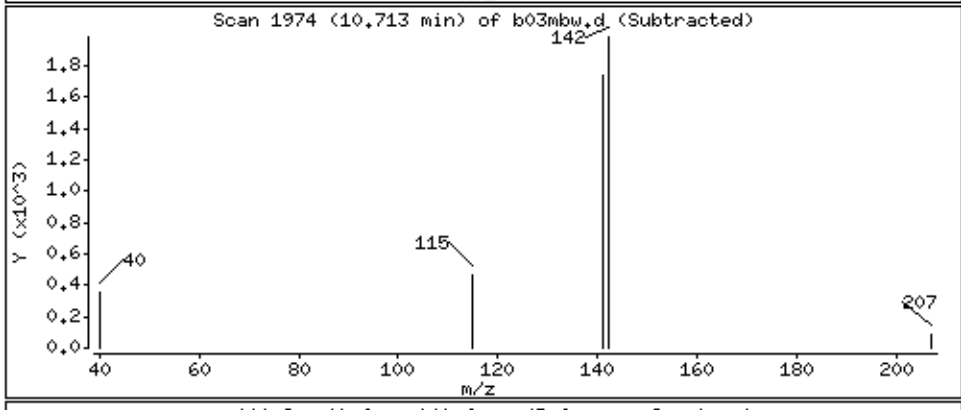
Column phase: DB-624

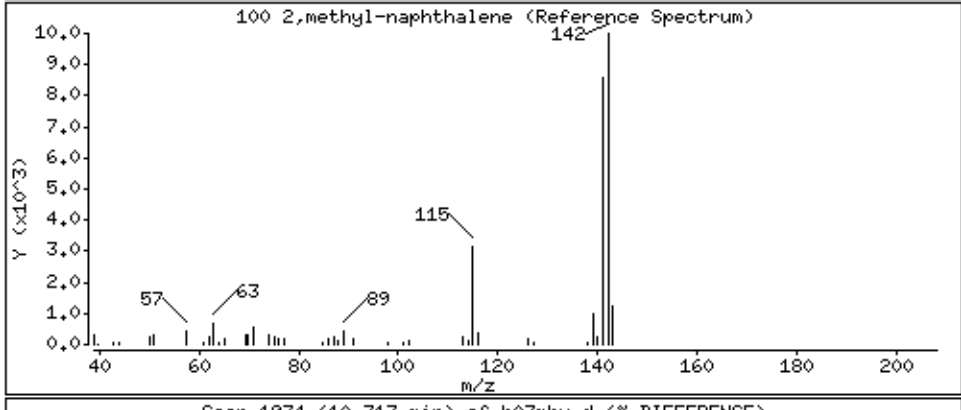
Column diameter: 0.18

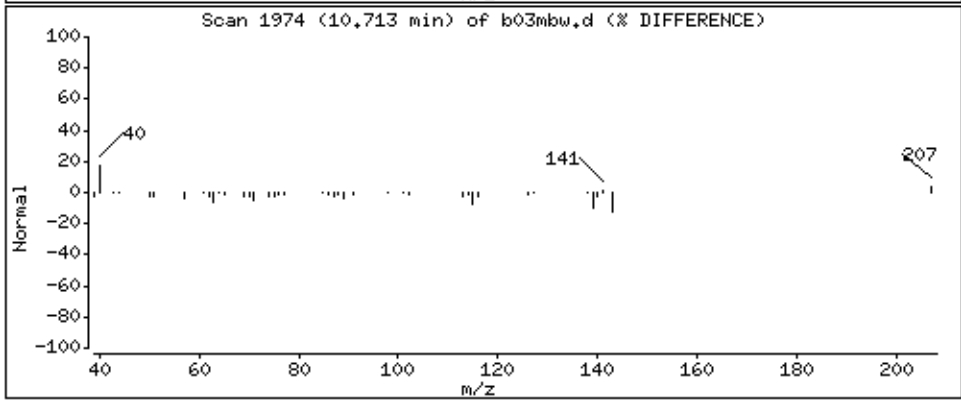
100 2,methyl-naphthalene

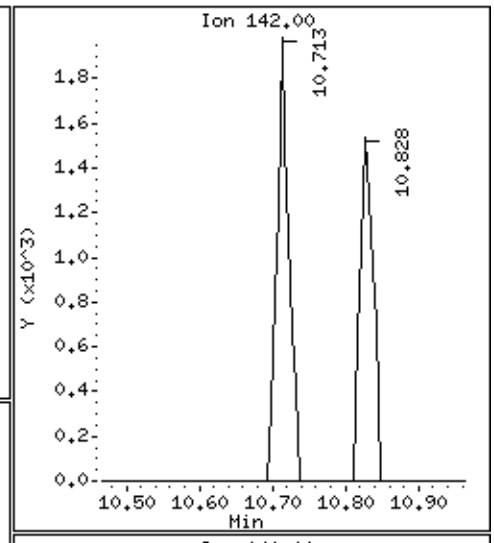
Concentration: 0.648 ppb

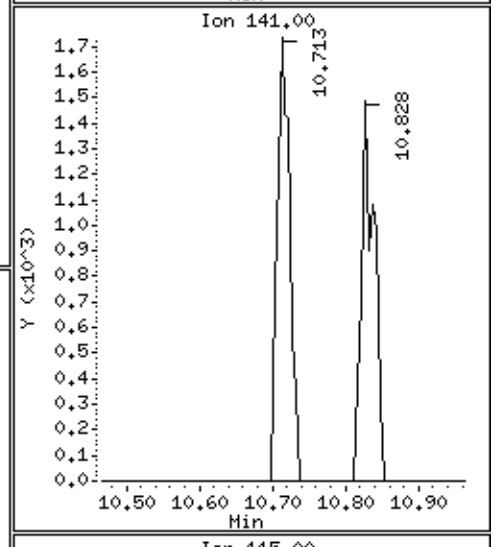


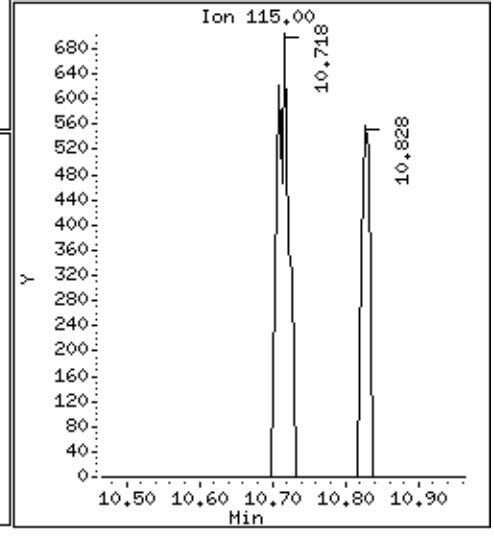












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b/b03mbw.d
Injection Date: 18-MAR-2016 14:18
Instrument: 50mv1b.i
Lab Sample ID: 1501284
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/18/2016 13:43 Lab Sample ID: 1501285

Date Analyzed: 03/18/2016 13:43 Lab File ID: B031816.B\B02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	52.2	
108-90-7	Chlorobenzene	50.9	
67-66-3	Chloroform	51.2	
75-35-4	1,1-Dichloroethene	53.5	
156-59-2	cis-1,2-Dichloroethene	53.1	
156-60-5	trans-1,2-Dichloroethene	51.5	
78-87-5	1,2-Dichloropropane	50.0	
100-41-4	Ethylbenzene	51.9	
98-82-8	Isopropylbenzene (Cumene)	53.0	
1634-04-4	Methyl-tert-butyl ether	49.1	
79-34-5	1,1,2,2-Tetrachloroethane	51.2	
127-18-4	Tetrachloroethene	55.3	
108-88-3	Toluene	52.1	
71-55-6	1,1,1-Trichloroethane	52.1	
79-01-6	Trichloroethene	54.0	
75-01-4	Vinyl chloride	52.1	
1330-20-7	Xylene (Total)	157	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d
Lab Smp Id: 1501285,117024:5 Client Smp ID: LCSw,117024:5
Inj Date : 18-MAR-2016 13:43
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1501285,117024:5
Misc Info : 88079
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b031816.b\b8260_a_c.m
Meth Date : 20-Mar-2016 20:59 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 53 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

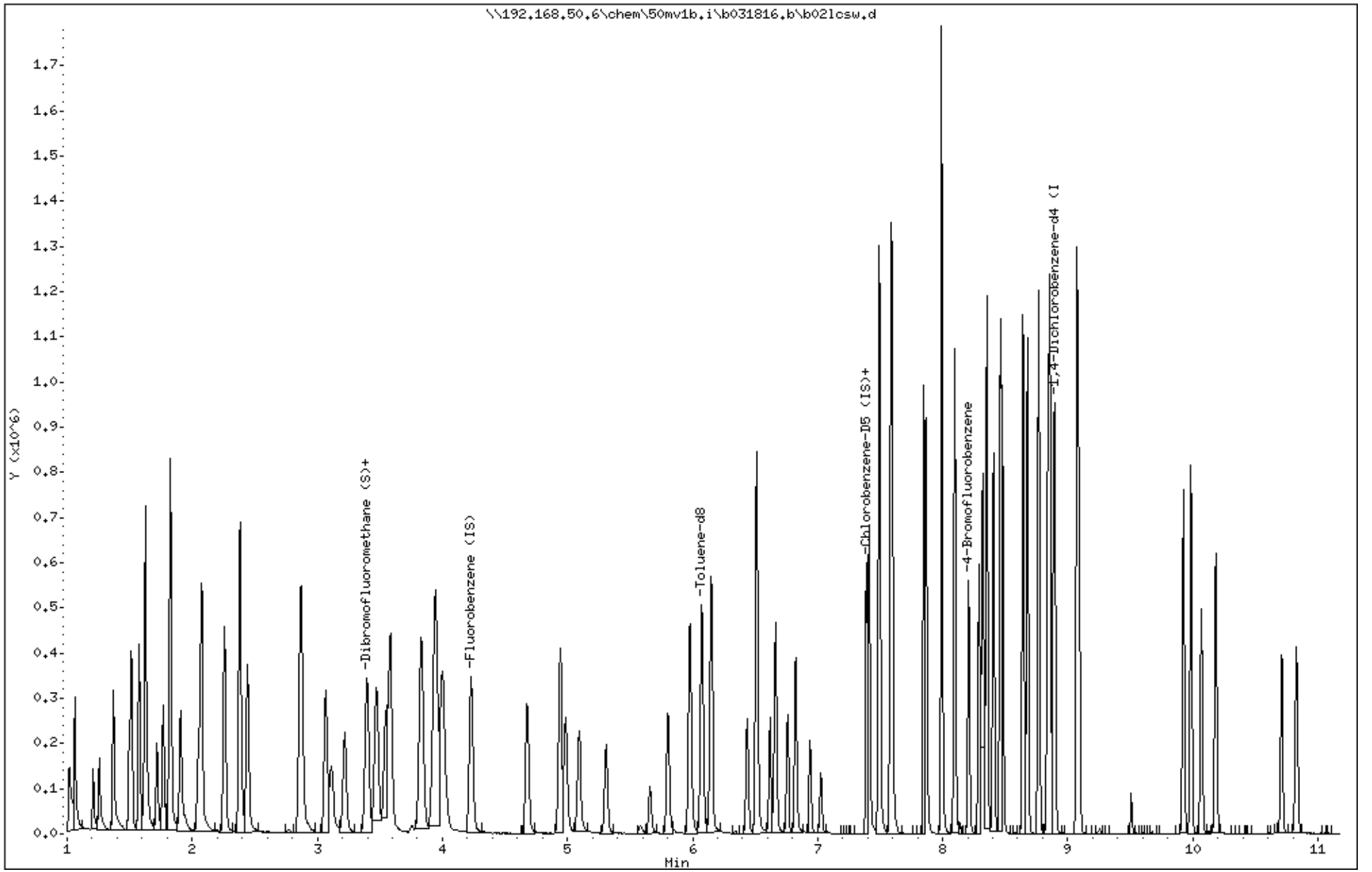
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.063	1.060	(0.251)	159436	52.1338	52.1	
	11 1,1-Dichloroethene	96	1.628	1.625	(0.385)	82542	53.4816	53.5	
	21 Methyl-tert-butyl ether	73	2.067	2.064	(0.488)	208186	49.1111	49.1	
	22 1,2-Dichloroethene (trans)	96	2.078	2.080	(0.491)	90563	51.4542	51.4	
	29 1,2-Dichloroethene (cis)	96	2.872	2.870	(0.679)	97313	53.0950	53.1	
	35 Chloroform	83	3.218	3.220	(0.760)	167824	51.1825	51.2	
	37 1,1,1-Trichloroethane	97	3.390	3.393	(0.801)	154046	52.0697	52.1	
$	38 Dibromofluoromethane (S)	113	3.401	3.398	(0.804)	83394	48.1651	48.2	
	42 Benzene	78	3.835	3.832	(0.906)	353418	52.1643	52.2	
*	46 Fluorobenzene (IS)	96	4.232	4.230	(1.000)	333423	50.0000		
	47 Trichloroethene	95	4.677	4.679	(1.105)	96230	54.0014	54.0	
	49 1,2-Dichloropropane	63	4.985	4.988	(1.178)	87691	49.9614	50.0	
$	57 Toluene-d8	98	6.073	6.076	(0.822)	305902	51.9338	51.9	
	58 Toluene	91	6.147	6.149	(0.832)	376243	52.0784	52.1	
	62 Tetrachloroethene	166	6.664	6.667	(0.902)	108638	55.2502	55.2	
*	67 Chlorobenzene-D5 (IS)	117	7.391	7.389	(1.000)	226849	50.0000		
	68 Chlorobenzene	112	7.412	7.415	(1.003)	236543	50.8554	50.8	
	70 Ethylbenzene	106	7.496	7.493	(1.014)	132591	51.9427	51.9	
	71 m&p-Xylene	106	7.590	7.593	(1.027)	333666	104.416	104	
	72 o-Xylene	106	7.852	7.854	(1.062)	165977	53.0613	53.1	
	75 Isopropylbenzene	105	8.097	8.095	(1.096)	467206	53.0033	53.0	
$	76 4-Bromofluorobenzene	95	8.207	8.210	(1.110)	111161	53.9802	54.0	
	79 1,1,2,2-Tetrachloroethane	83	8.301	8.299	(0.934)	77594	51.1792	51.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.678	8.675	(0.976)	377664	51.8078	51.8	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.887	8.884	(1.000)	126221	50.0000		
98 Naphthalene	128	10.069	10.072	(1.133)	305592	47.3713	47.4	

Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d
Date : 18-MAR-2016 13:43
Client ID: LCSw,117024:5
Instrument: 50mv1b.i
Sample Info: 1501285,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

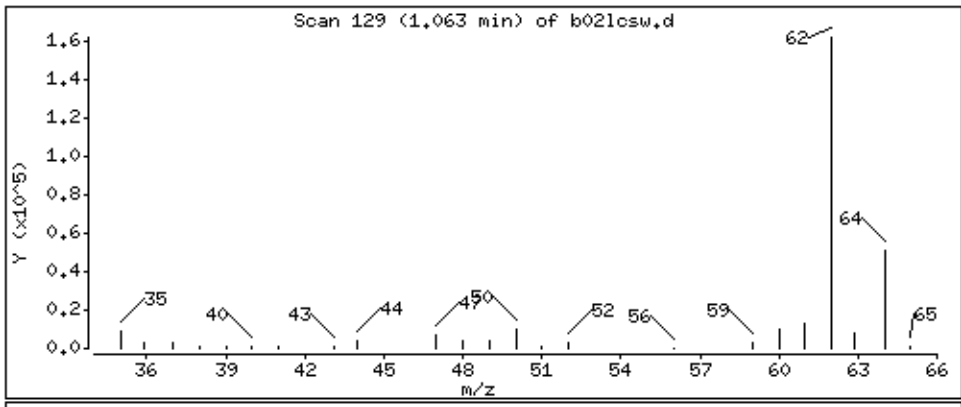
Operator: grm

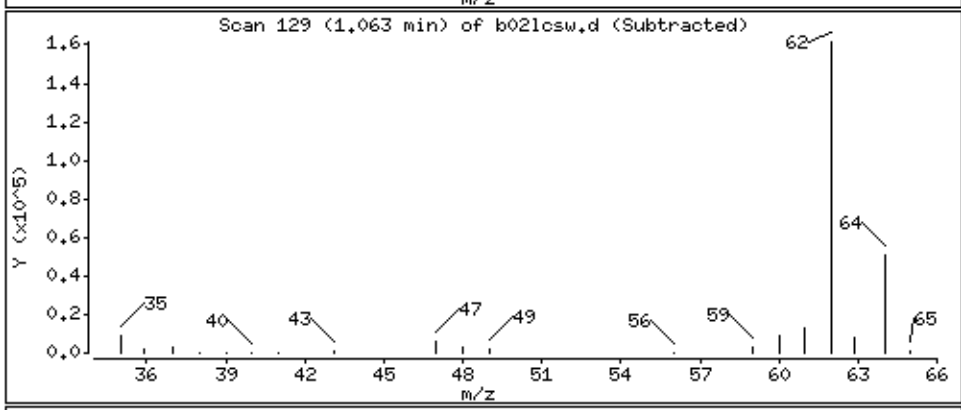
Column phase: DB-624

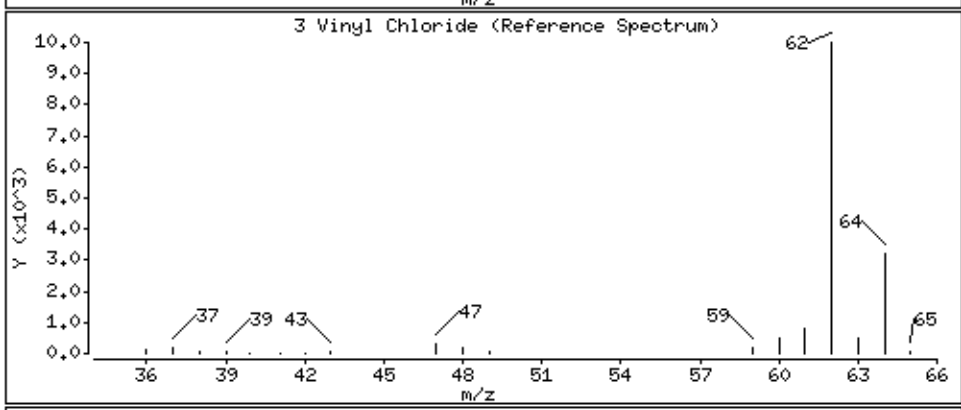
Column diameter: 0.18

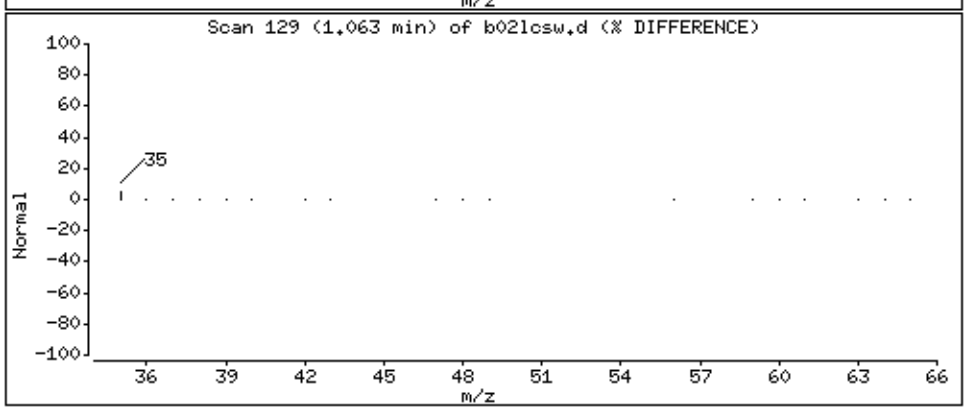
3 Vinyl Chloride

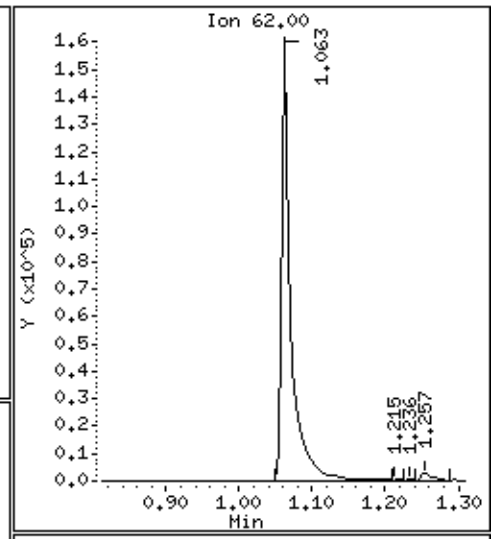
Concentration: 52.1 ppb

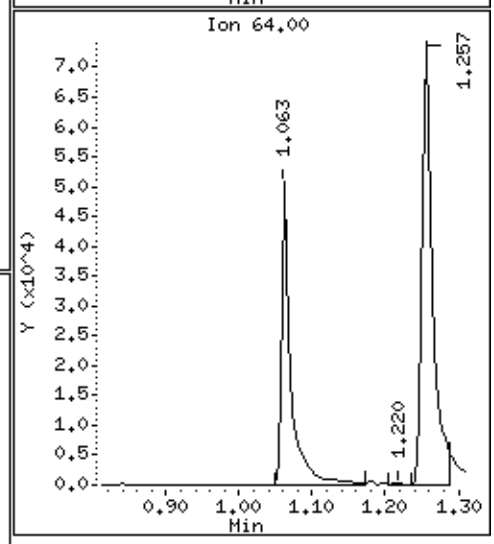












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

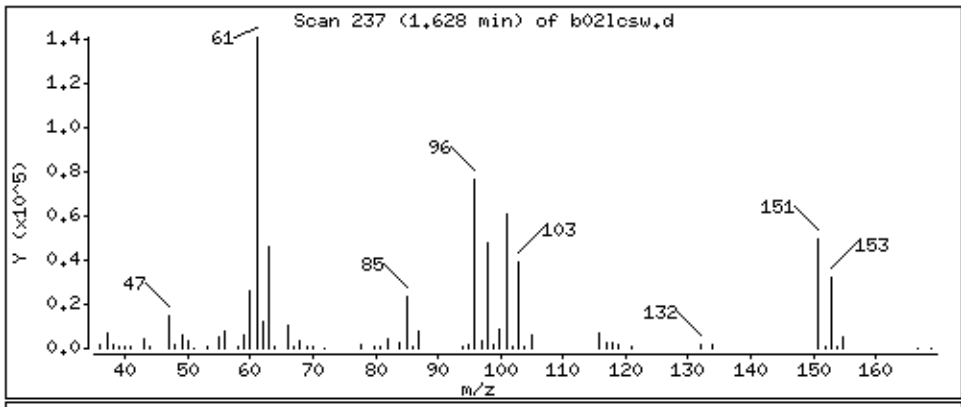
Operator: grm

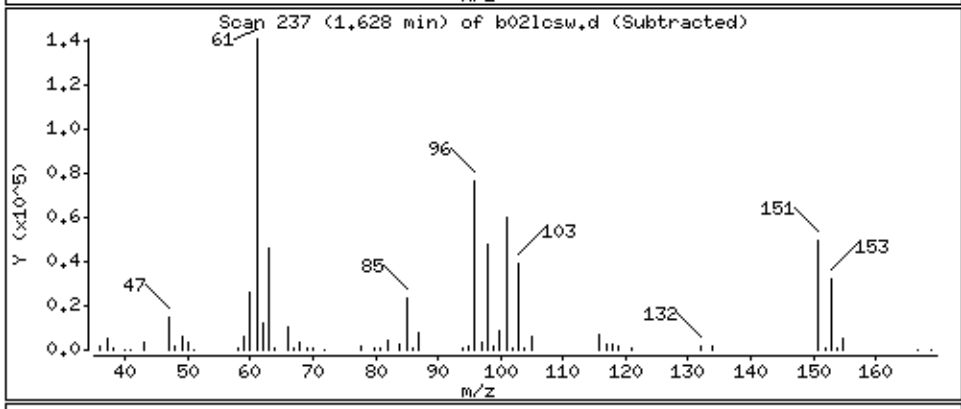
Column phase: DB-624

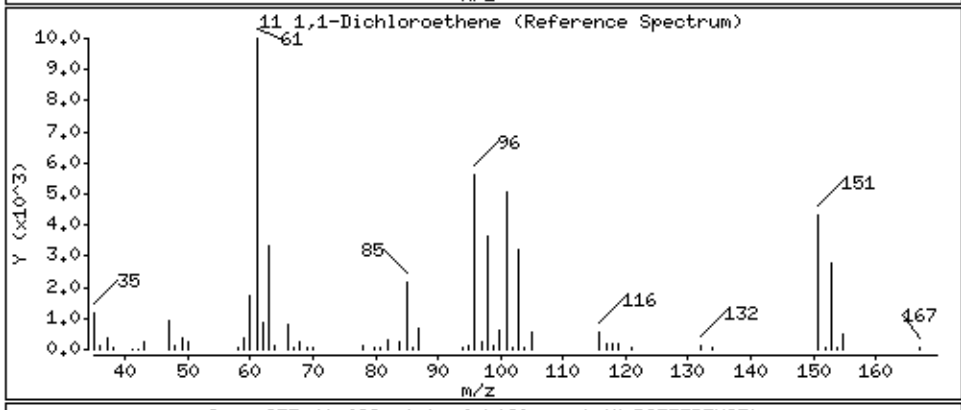
Column diameter: 0.18

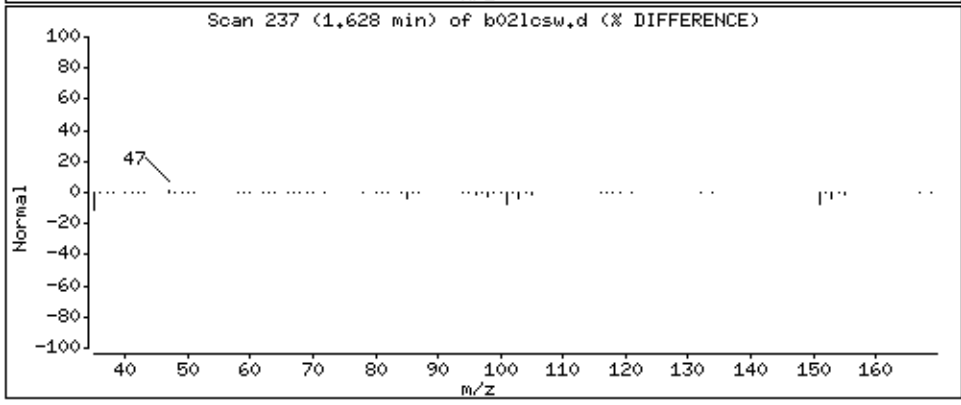
11 1,1-Dichloroethene

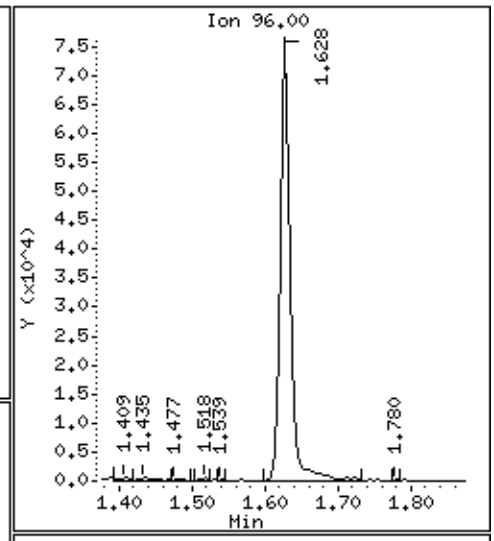
Concentration: 53.5 ppb

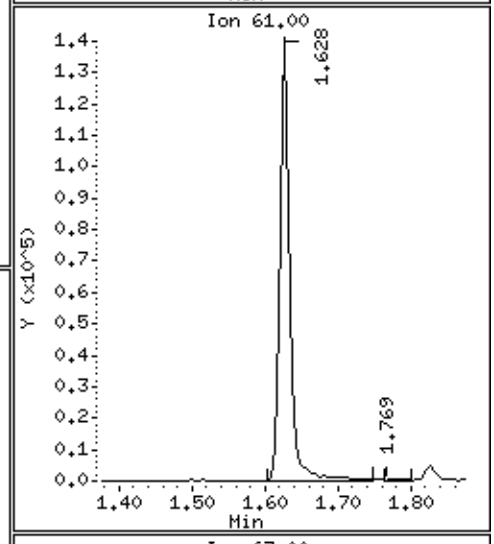


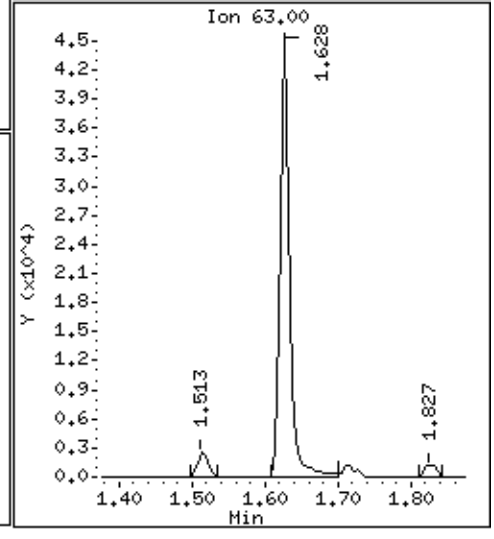












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

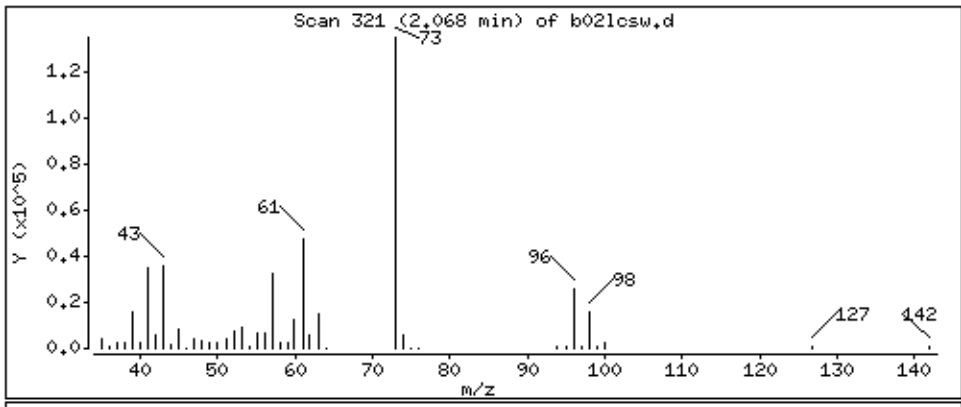
Operator: grm

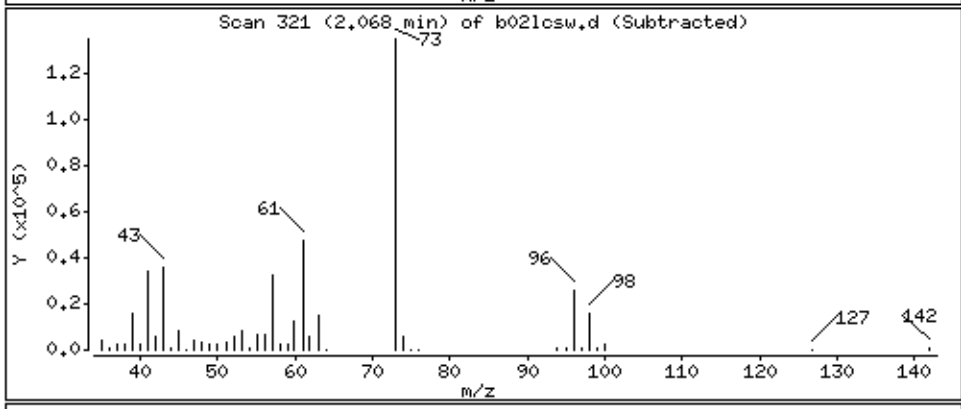
Column phase: DB-624

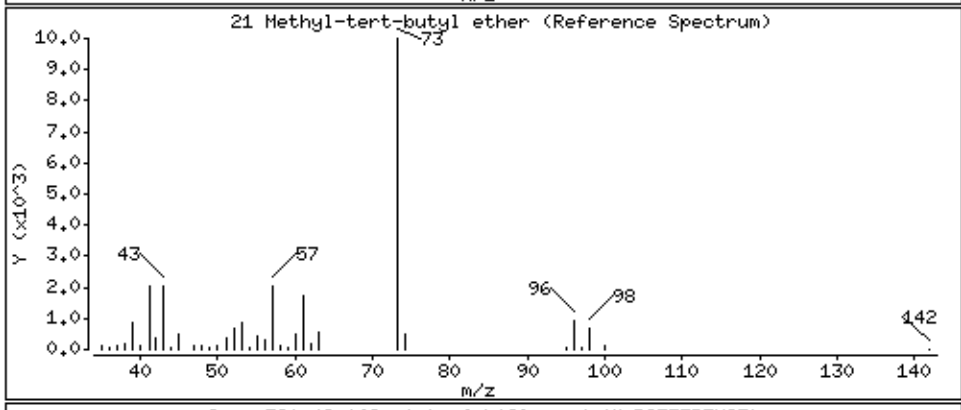
Column diameter: 0.18

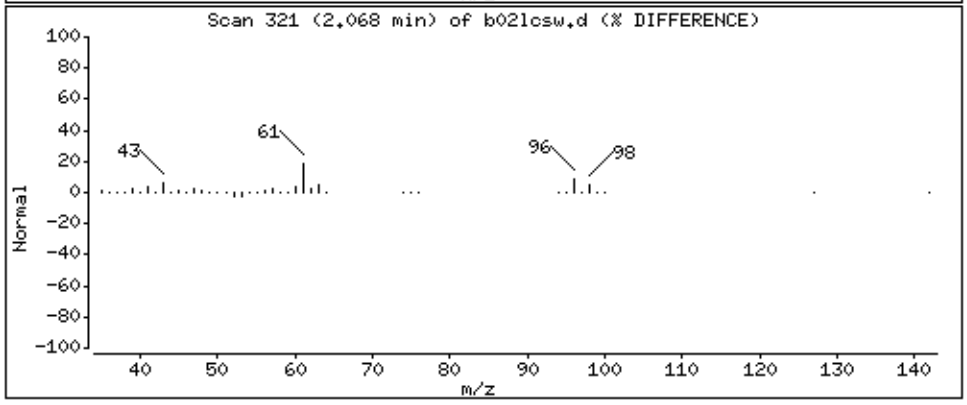
21 Methyl-tert-butyl ether

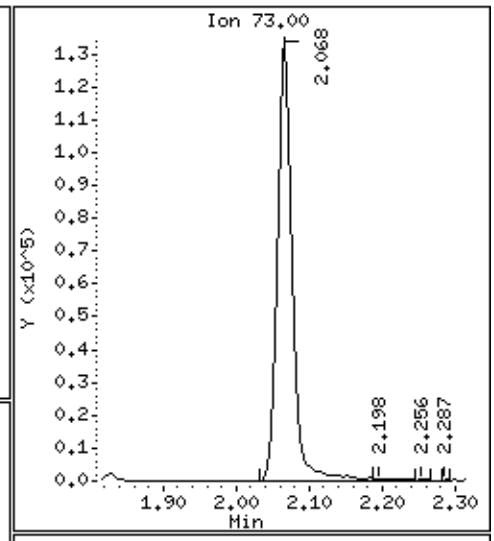
Concentration: 49.1 ppb

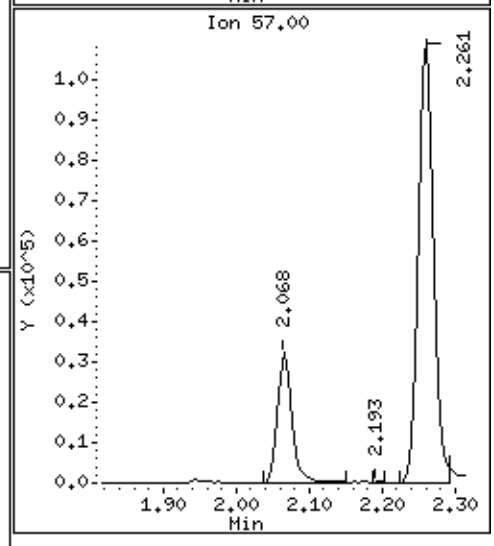












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

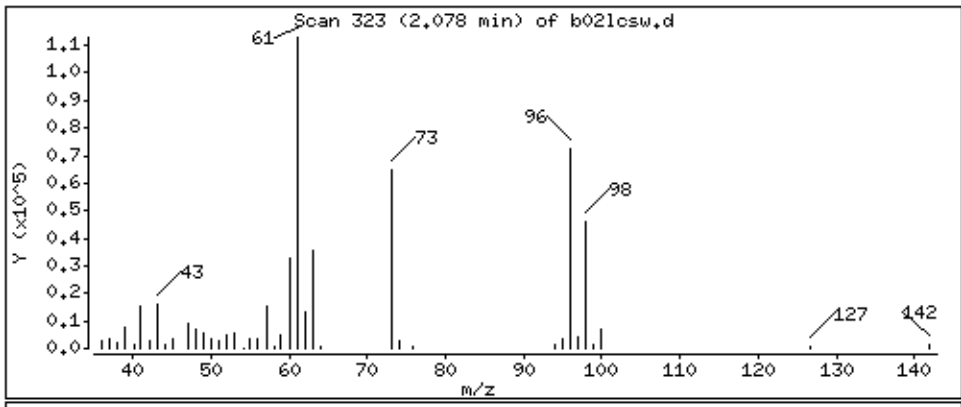
Client ID: LCSw,117024:5 Instrument: 50mv1b.i

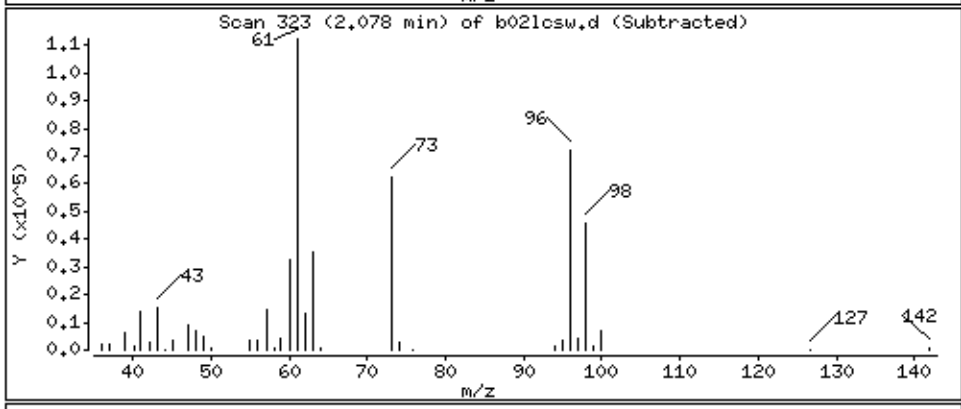
Sample Info: 1501285,117024:5

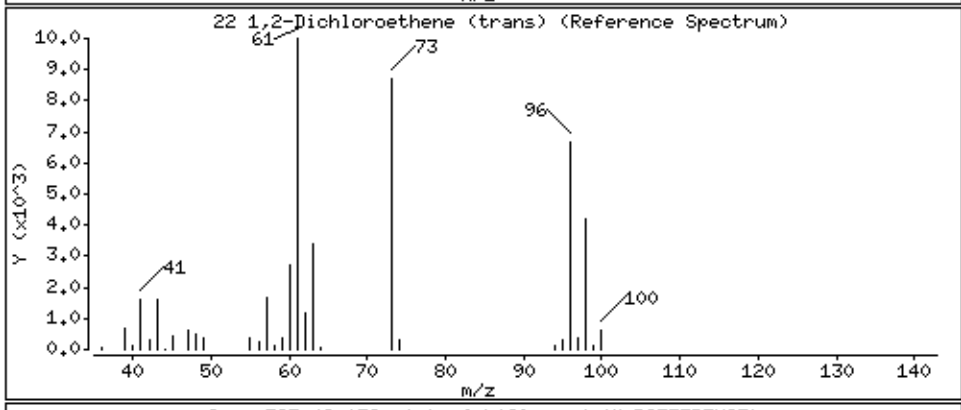
Purge Volume: 5.0 Operator: grm

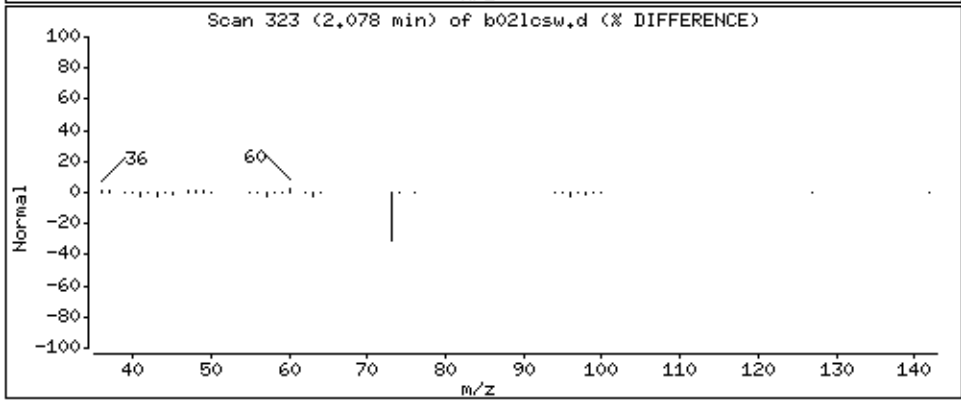
Column phase: DB-624 Column diameter: 0.18

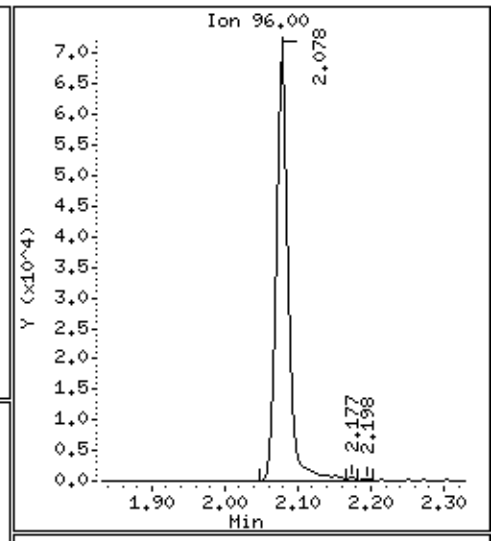
22 1,2-Dichloroethene (trans) Concentration: 51.4 ppb

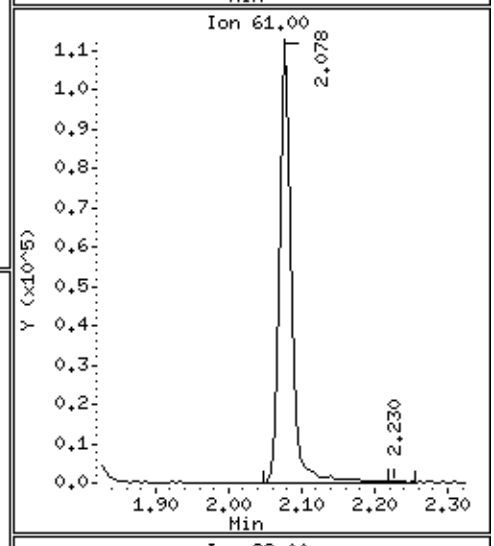


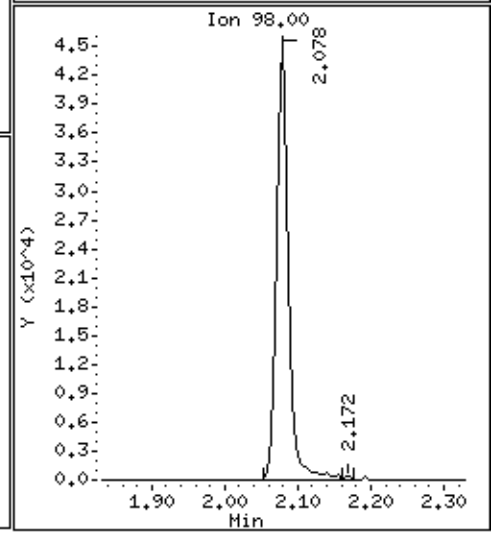












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

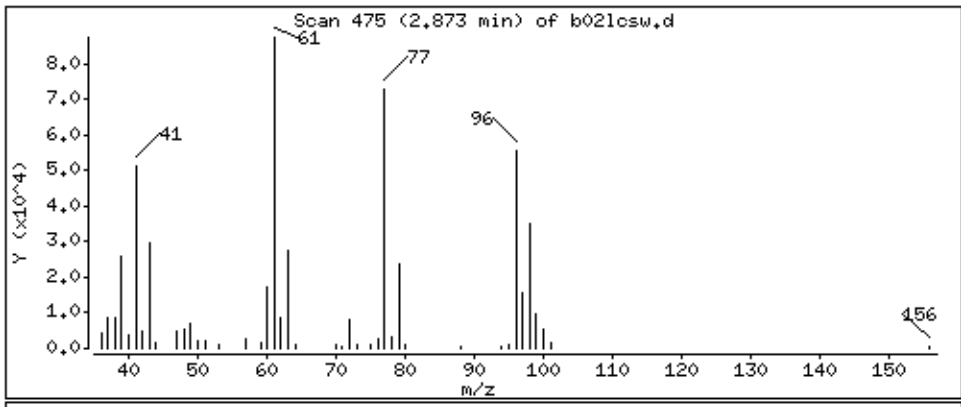
Operator: grm

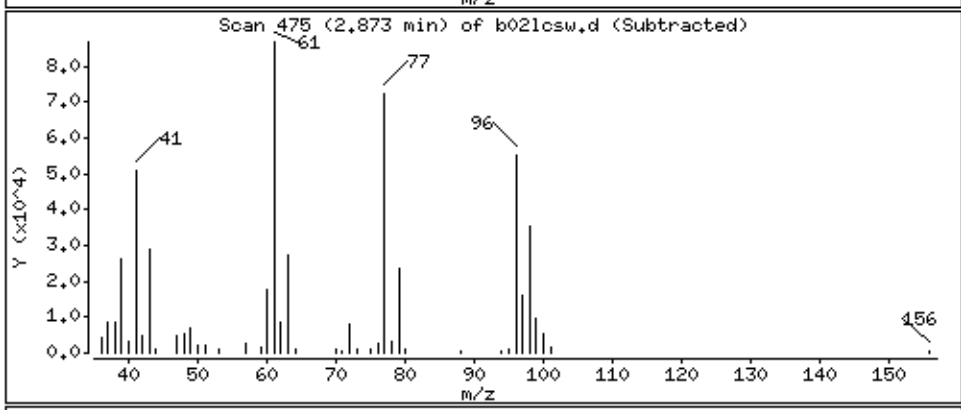
Column phase: DB-624

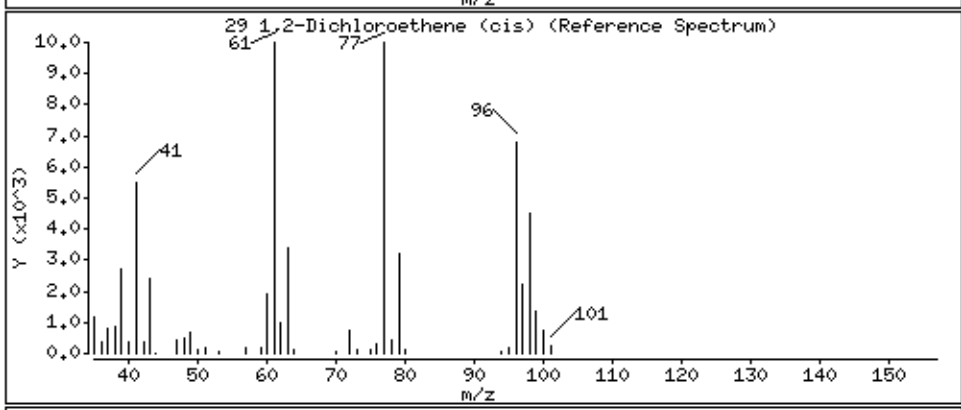
Column diameter: 0.18

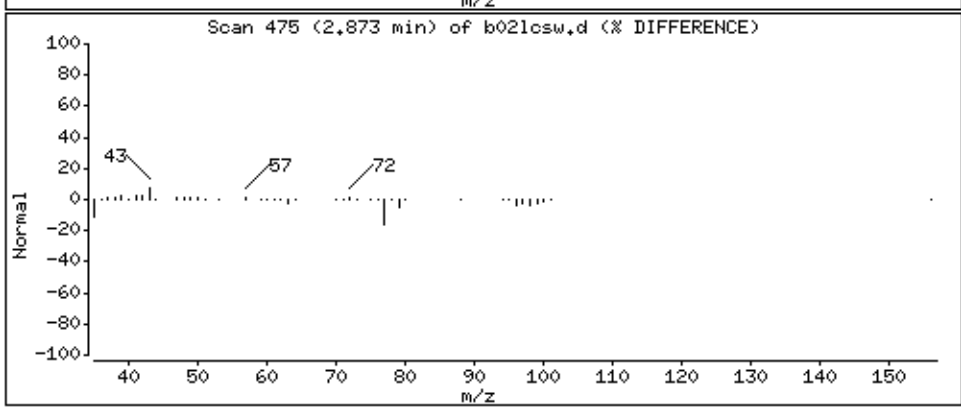
29 1,2-Dichloroethene (cis)

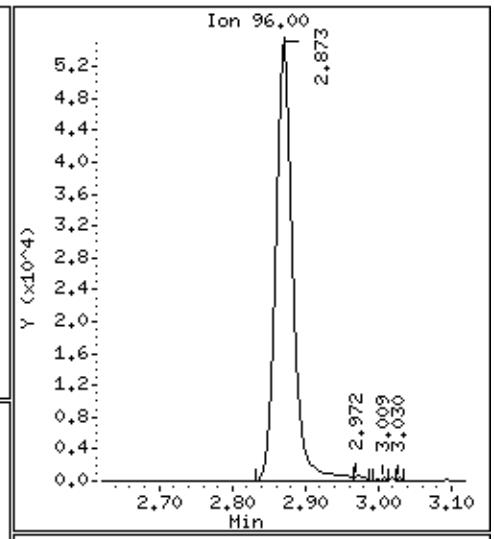
Concentration: 53.1 ppb

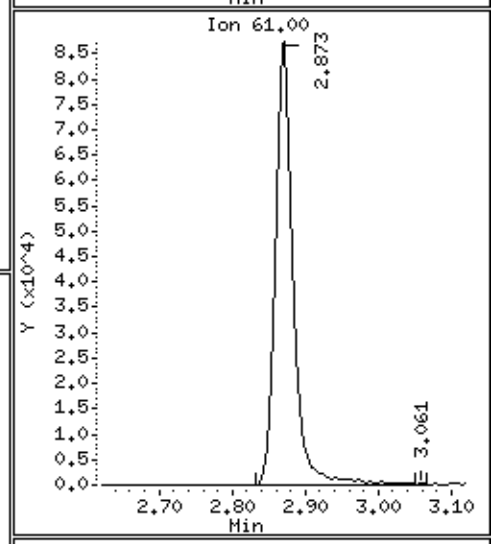


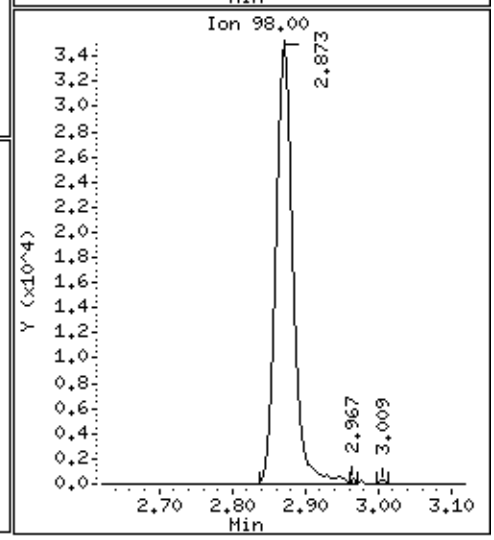












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

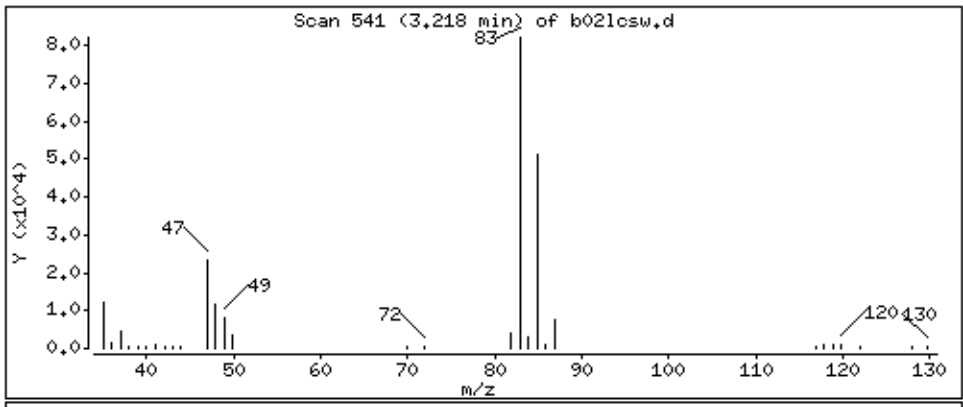
Operator: grm

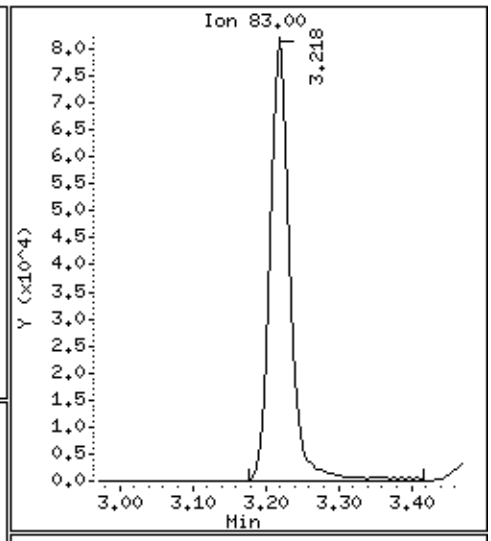
Column phase: DB-624

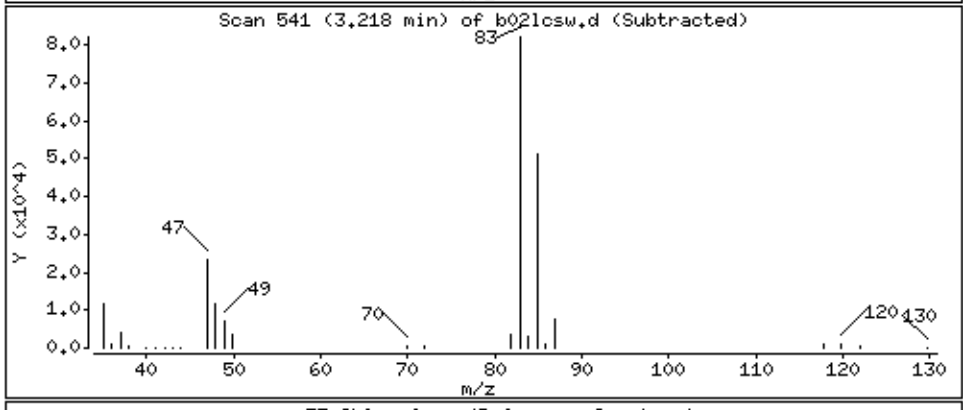
Column diameter: 0.18

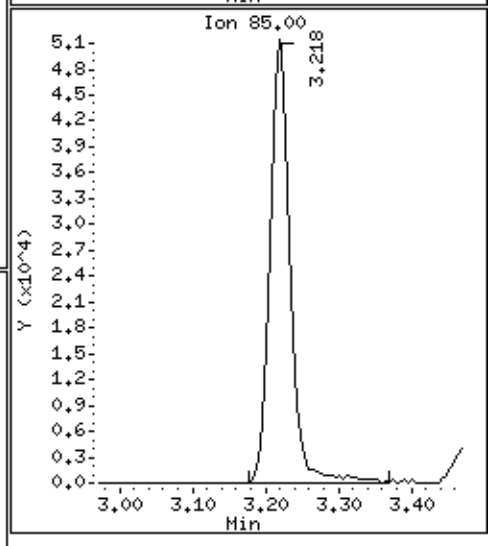
35 Chloroform

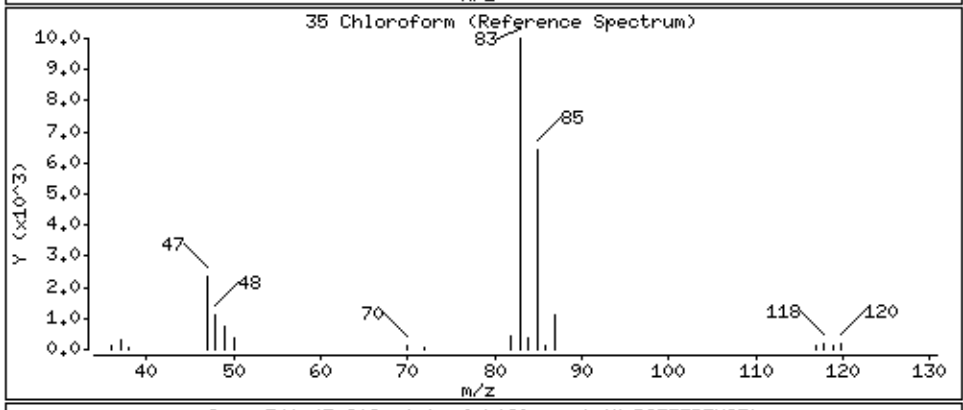
Concentration: 51.2 ppb

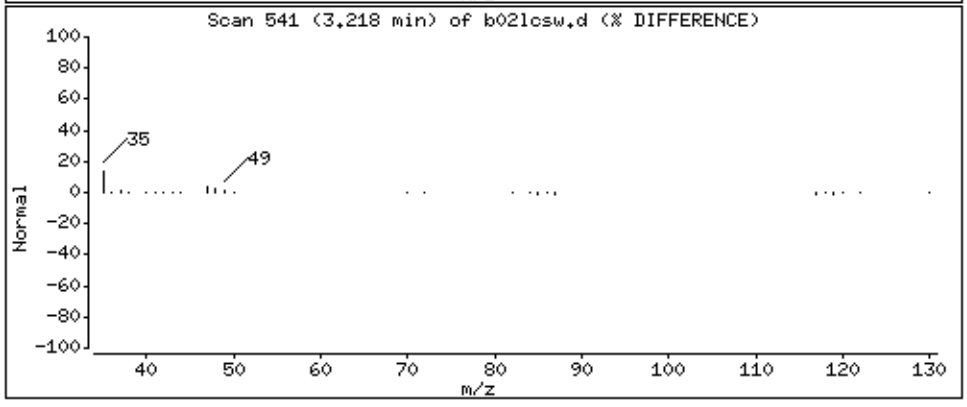












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

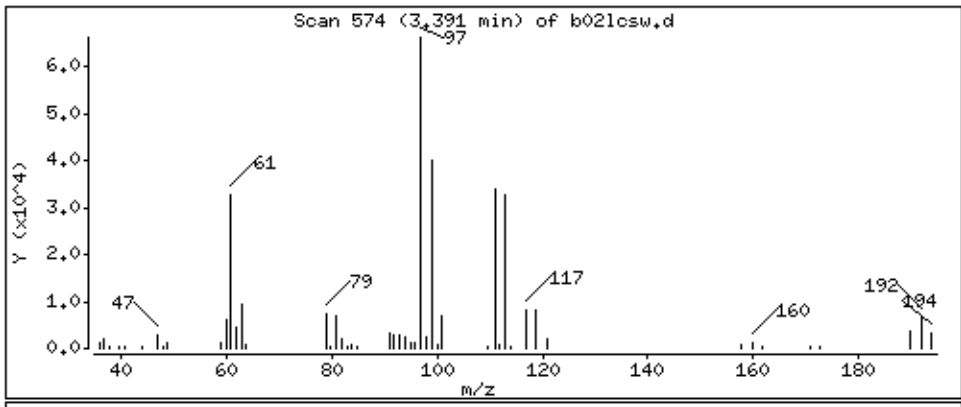
Operator: grm

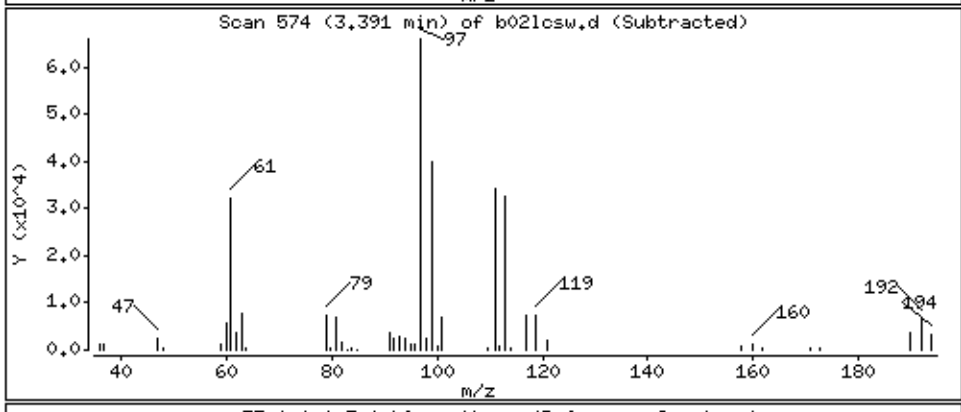
Column phase: DB-624

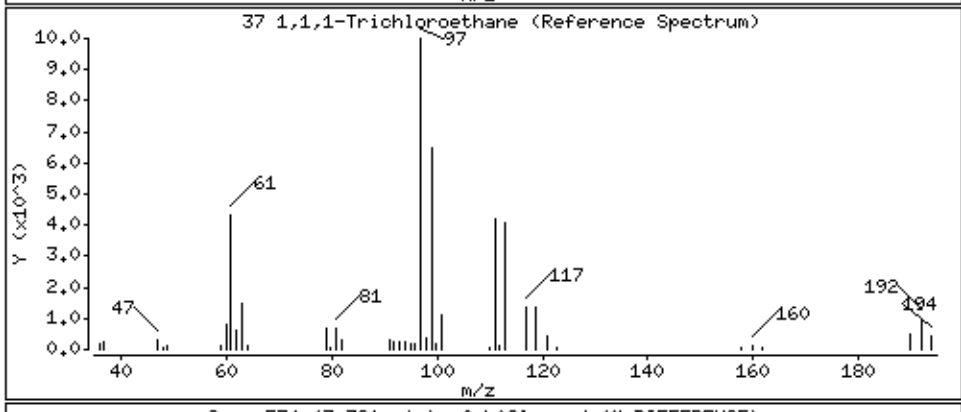
Column diameter: 0.18

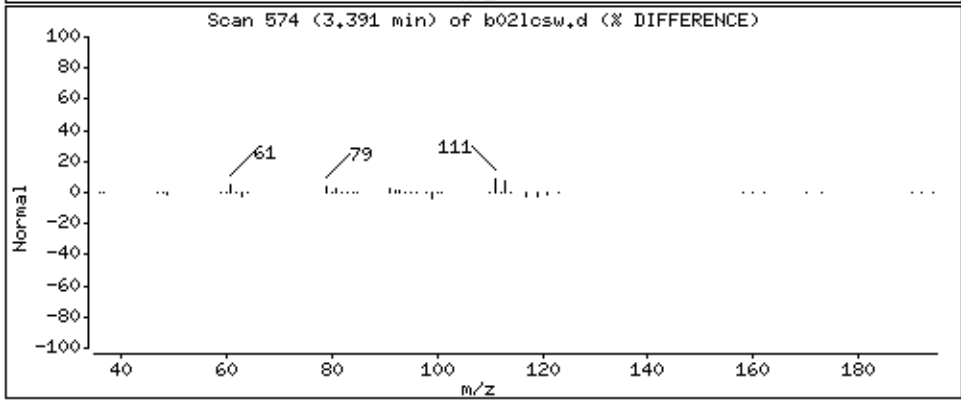
37 1,1,1-Trichloroethane

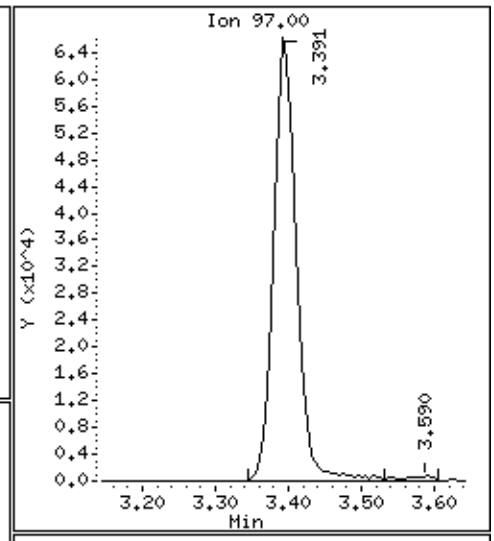
Concentration: 52.1 ppb

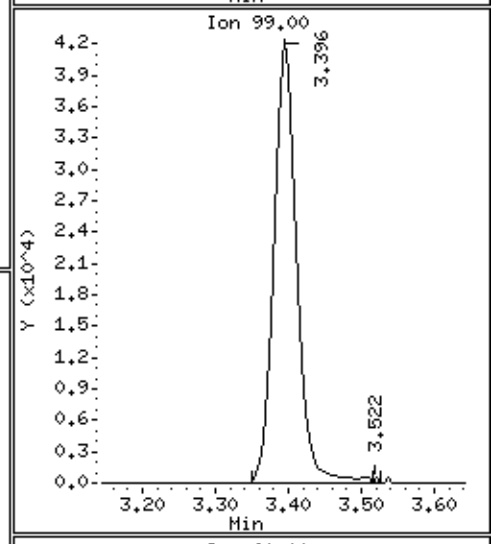


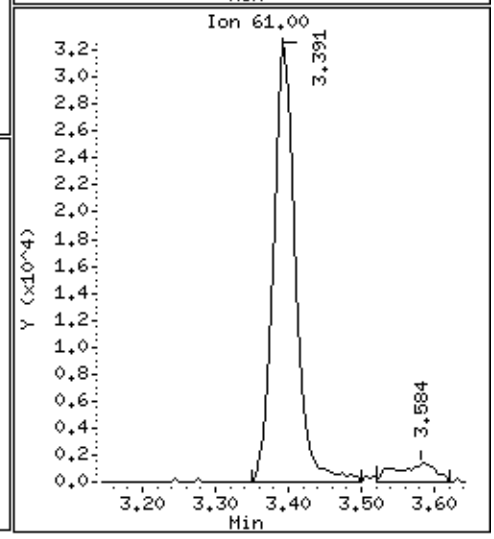












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

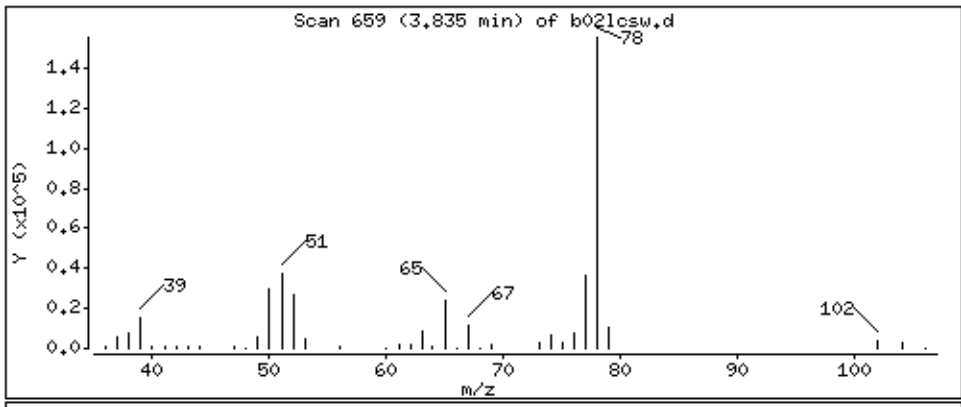
Operator: grm

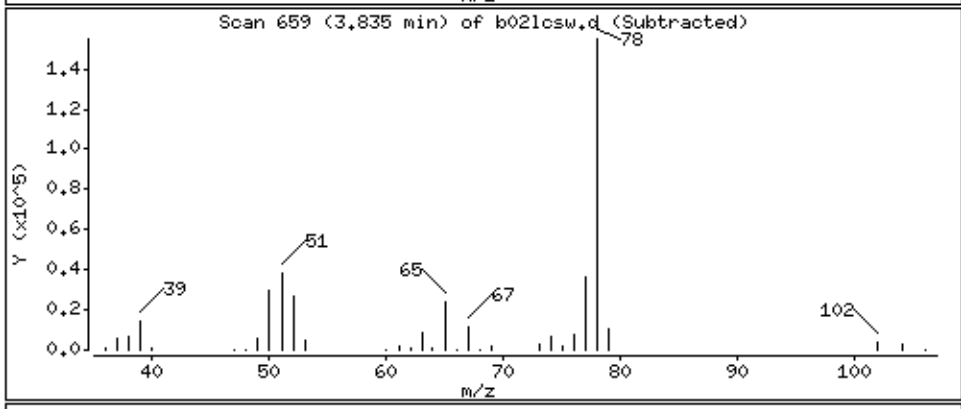
Column phase: DB-624

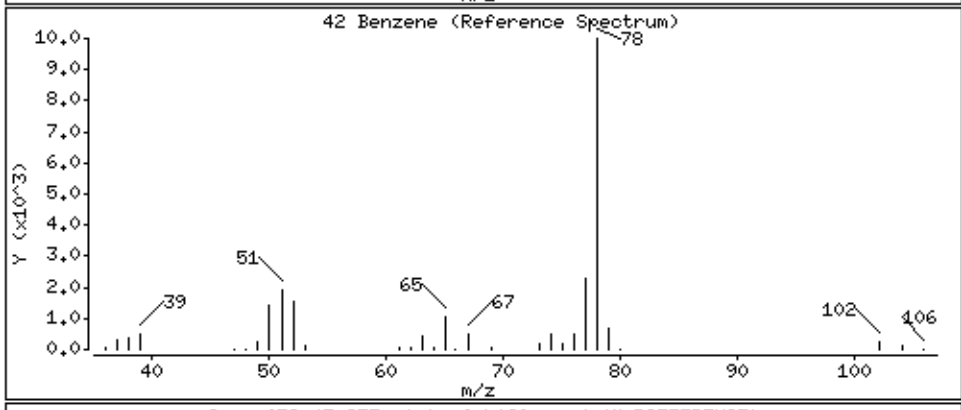
Column diameter: 0.18

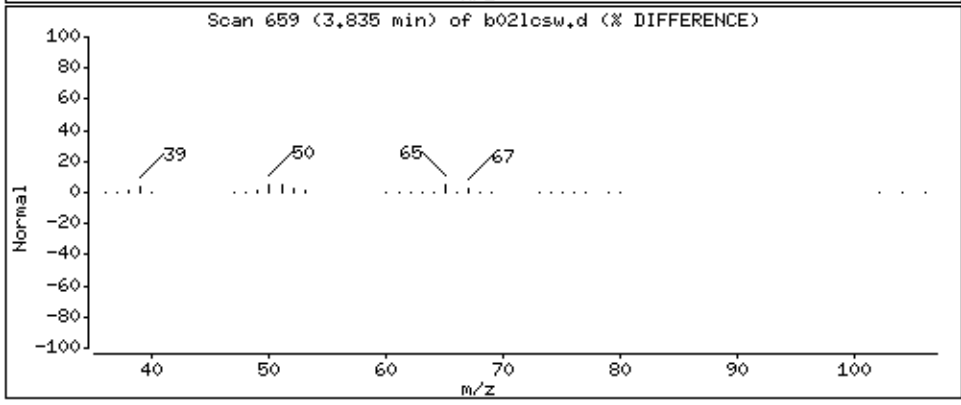
42 Benzene

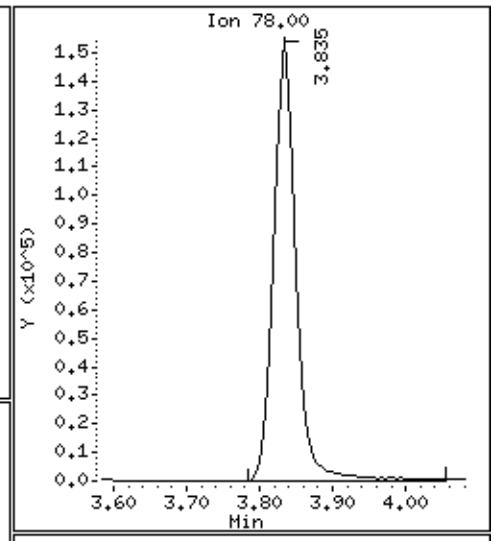
Concentration: 52.2 ppb

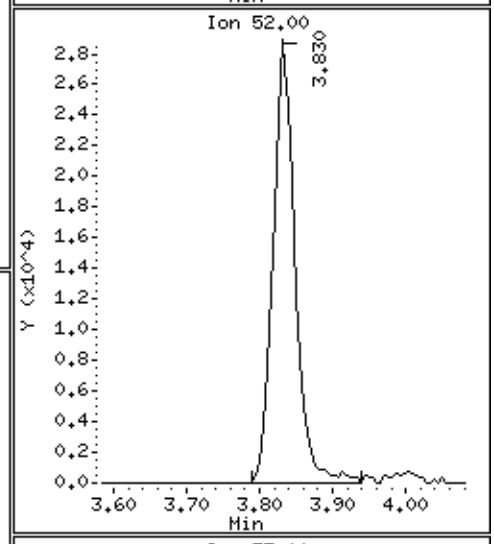


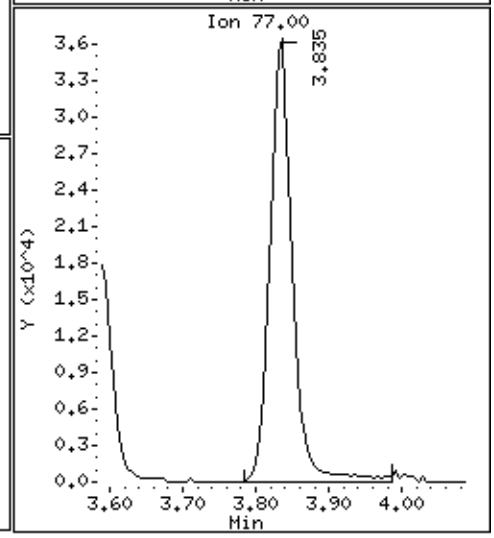












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

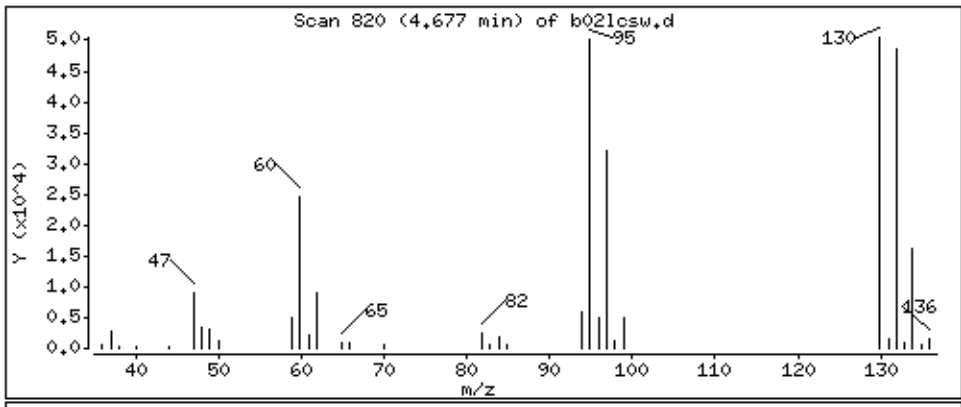
Operator: grm

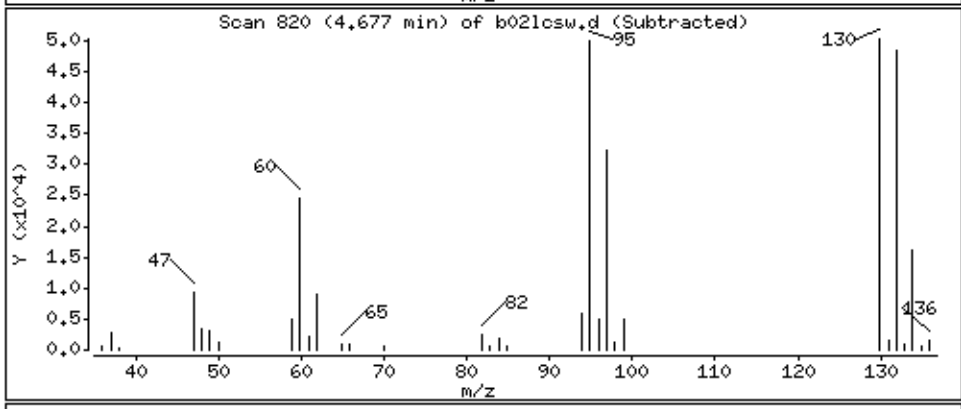
Column phase: DB-624

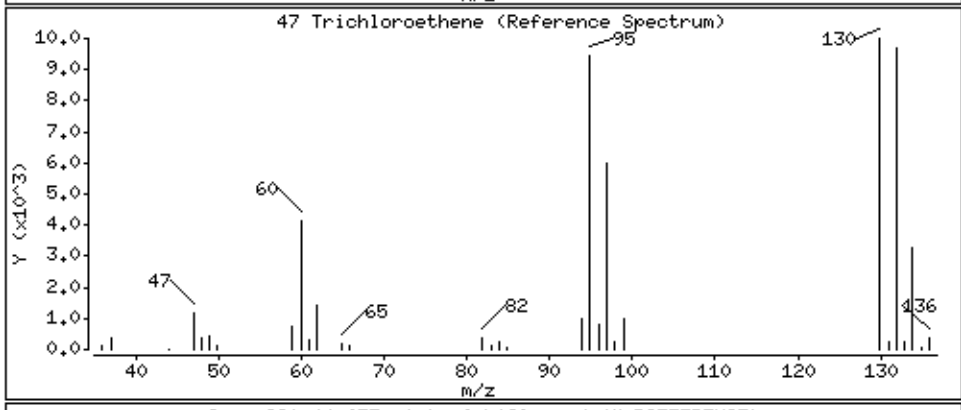
Column diameter: 0.18

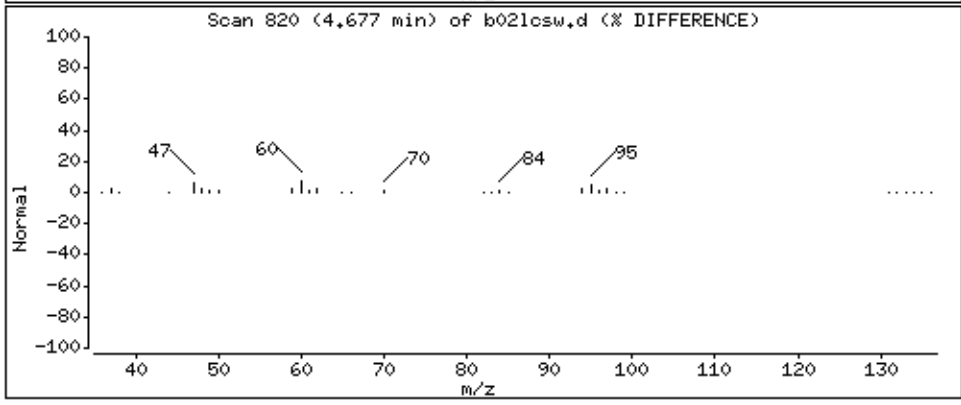
47 Trichloroethene

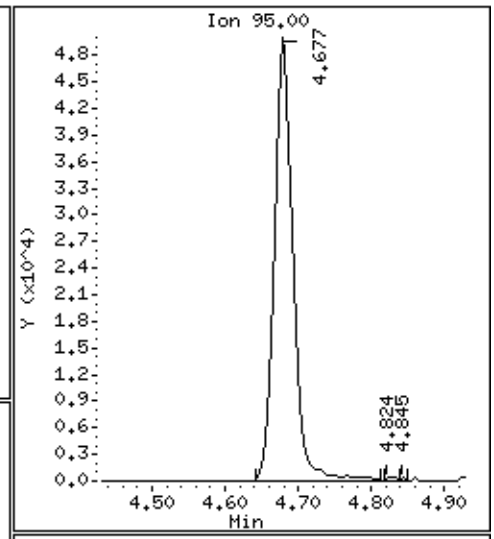
Concentration: 54.0 ppb

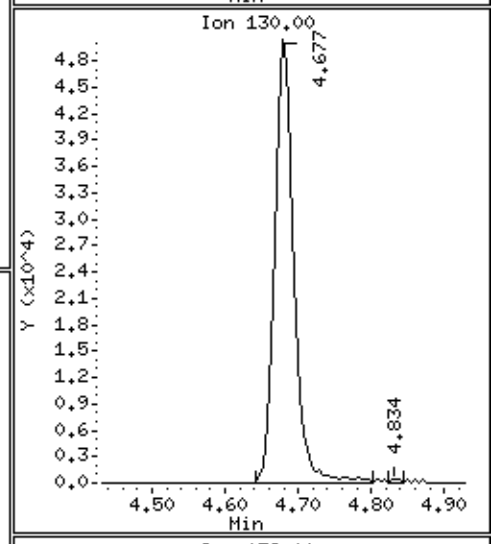


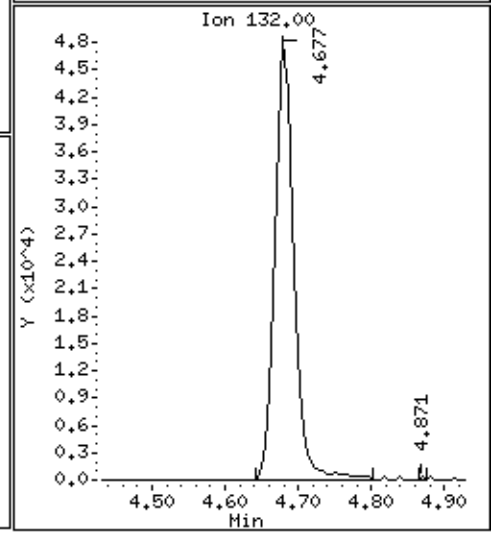












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

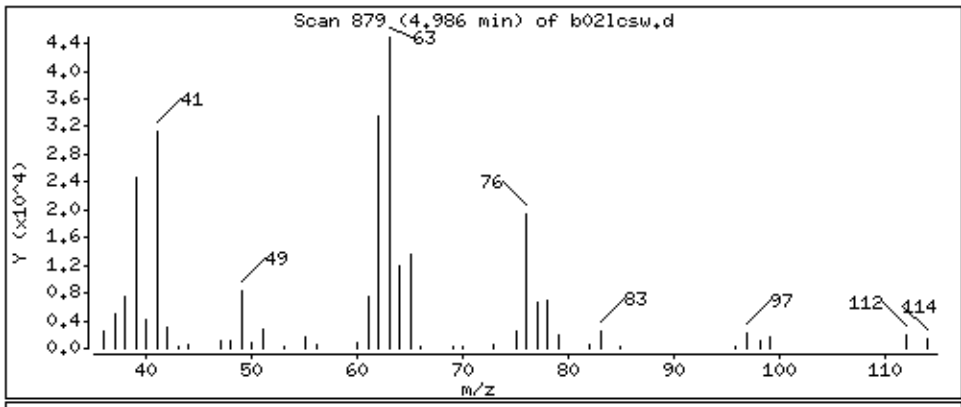
Operator: grm

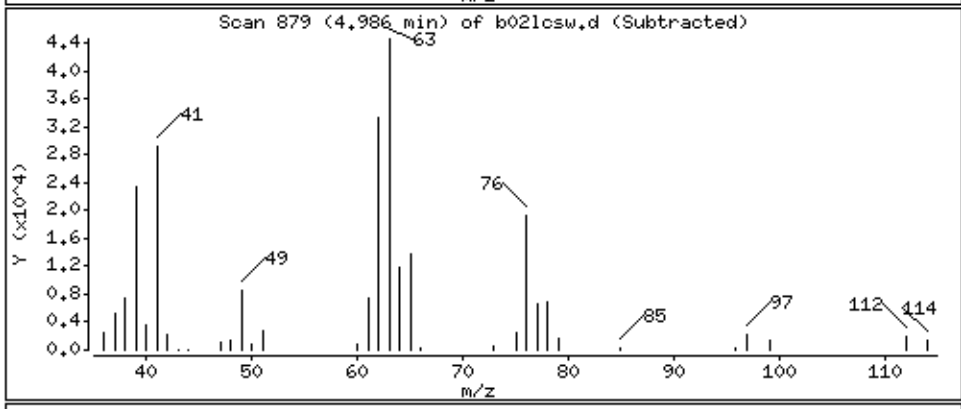
Column phase: DB-624

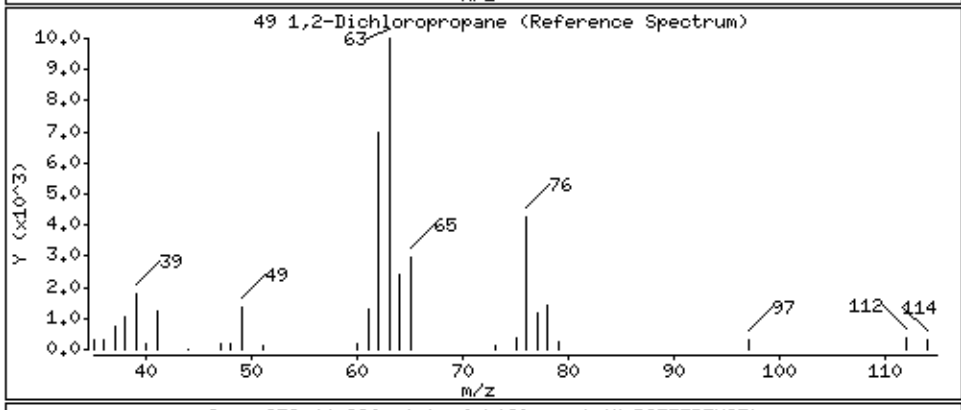
Column diameter: 0.18

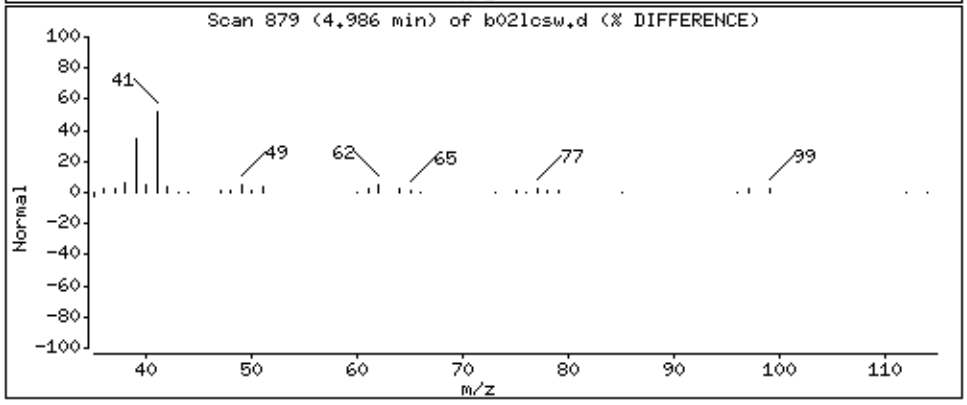
49 1,2-Dichloropropane

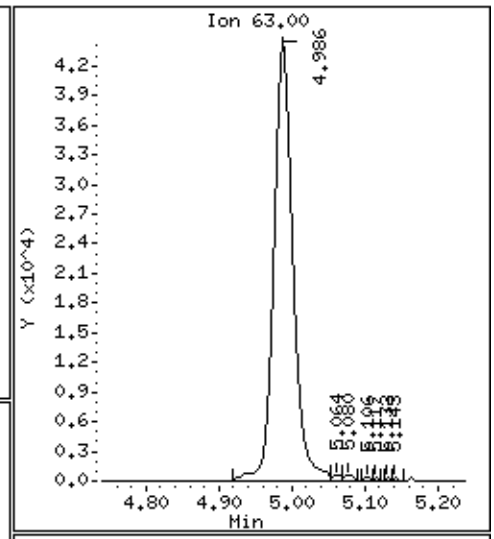
Concentration: 50.0 ppb

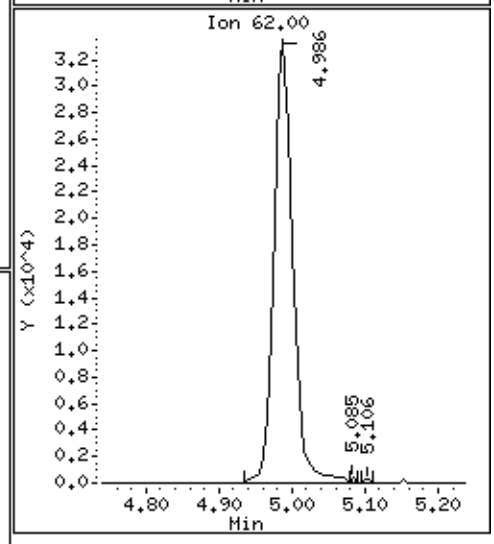












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

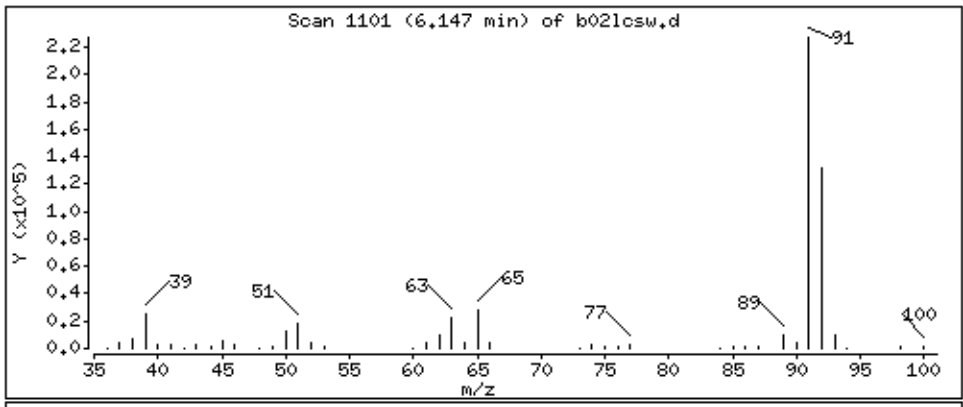
Operator: grm

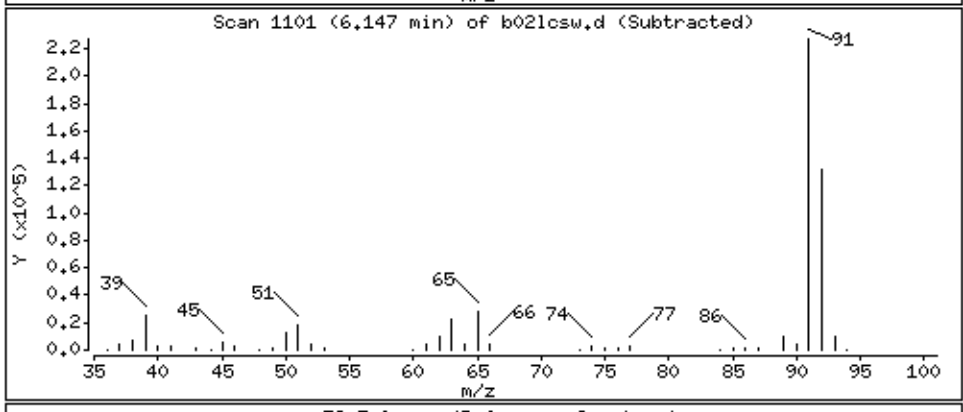
Column phase: DB-624

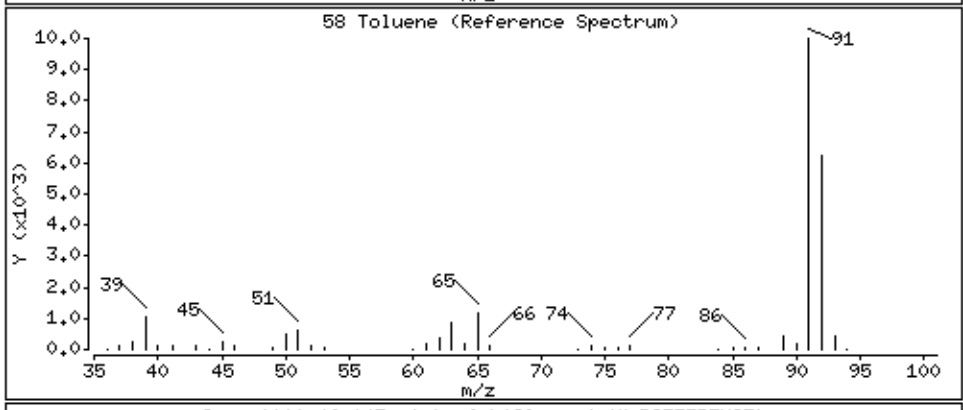
Column diameter: 0.18

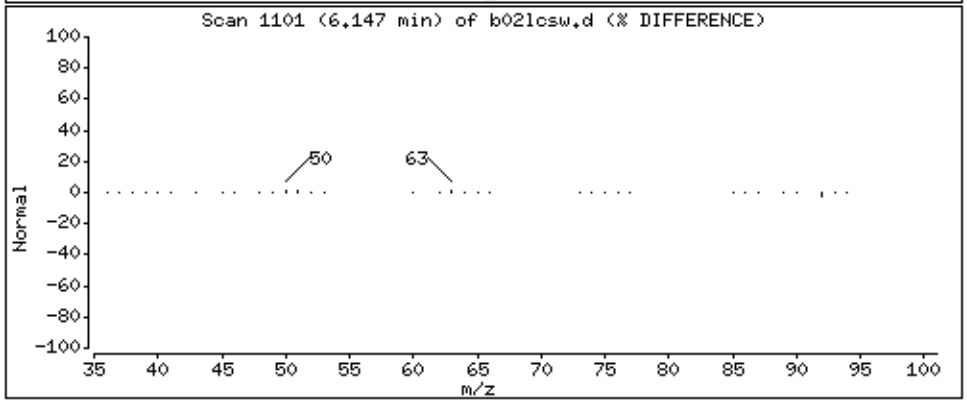
58 Toluene

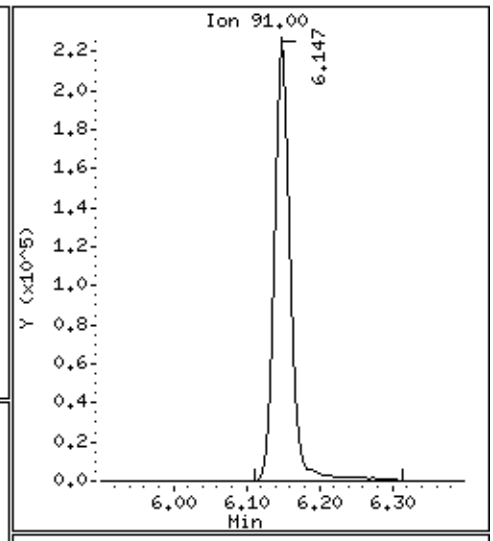
Concentration: 52.1 ppb

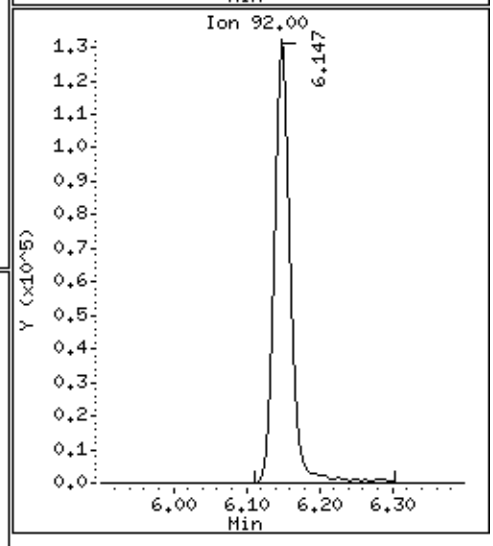












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

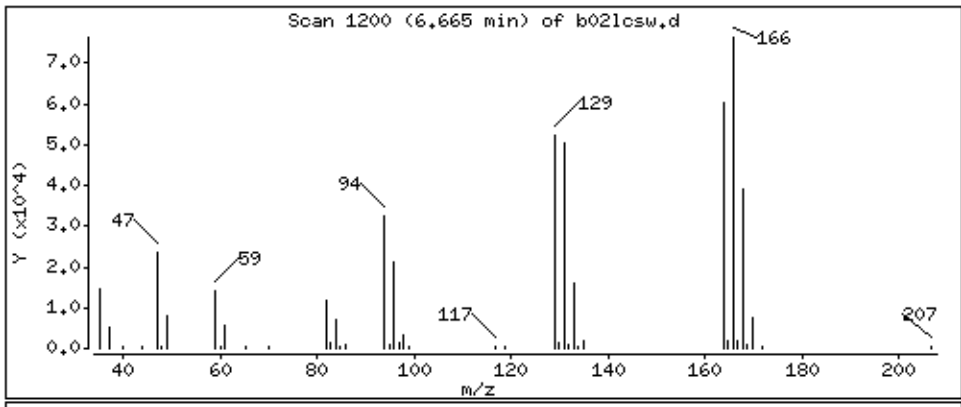
Operator: grm

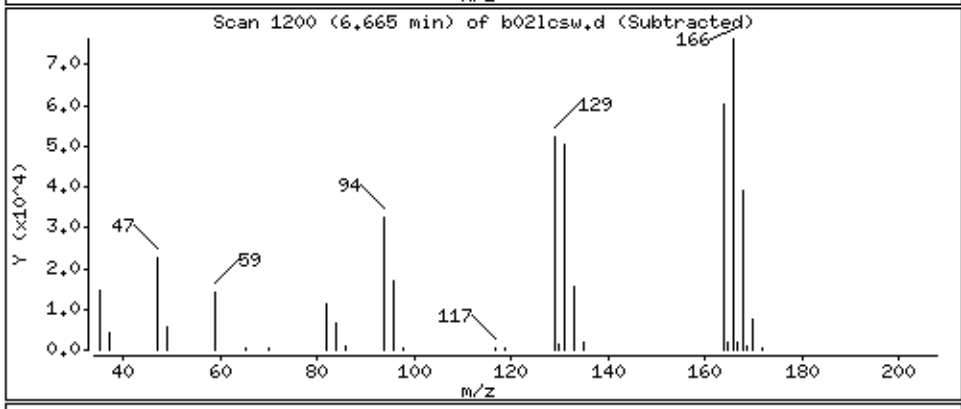
Column phase: DB-624

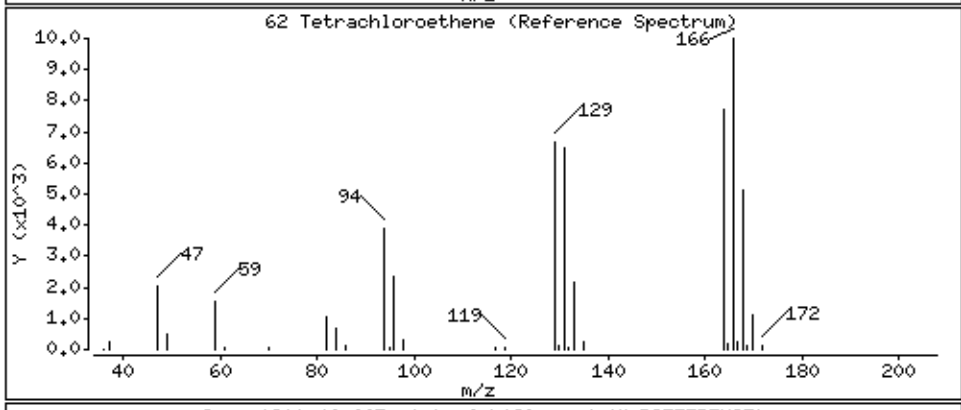
Column diameter: 0.18

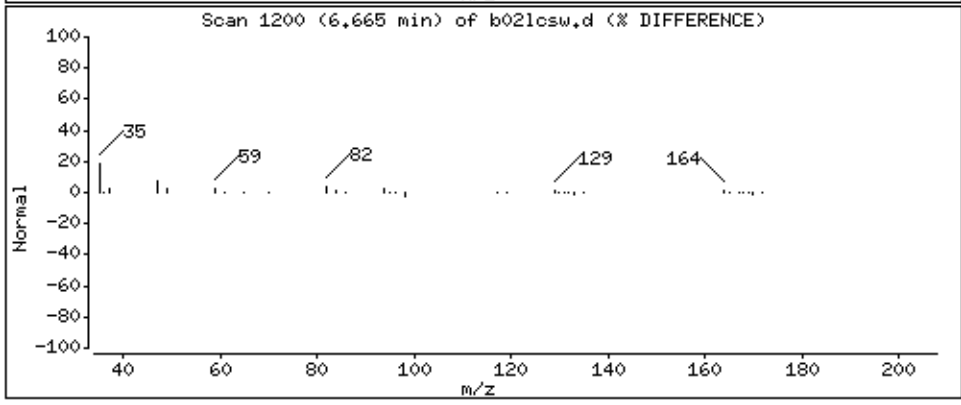
62 Tetrachloroethene

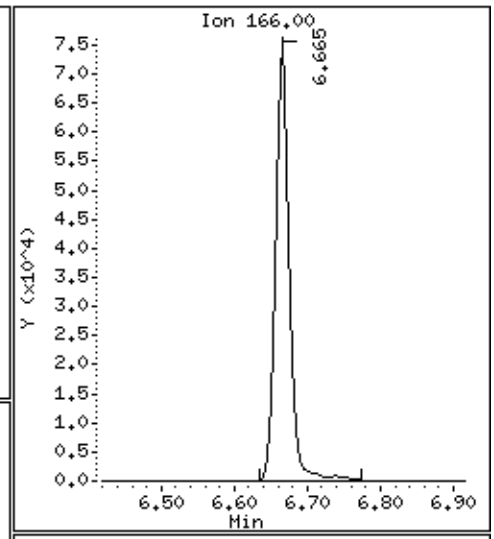
Concentration: 55.2 ppb

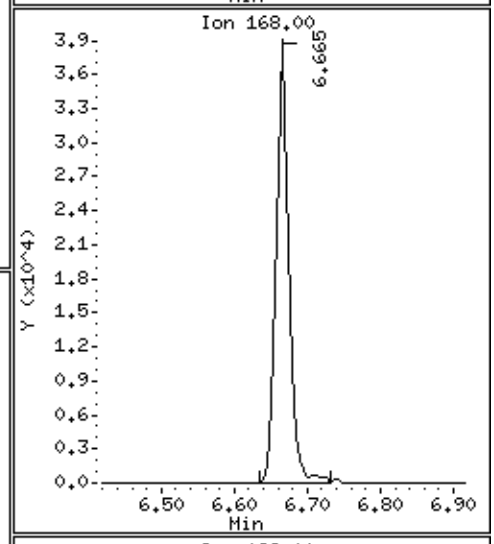


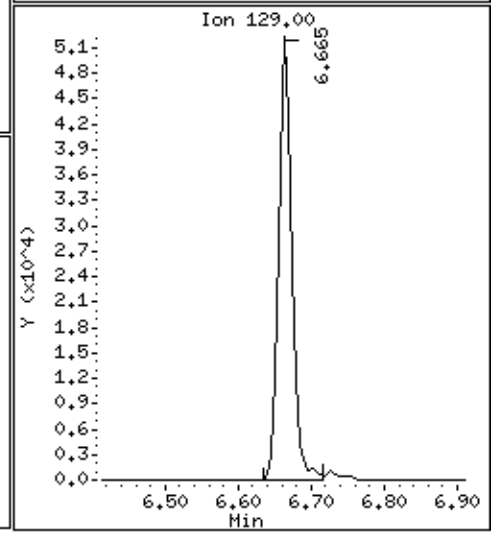












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

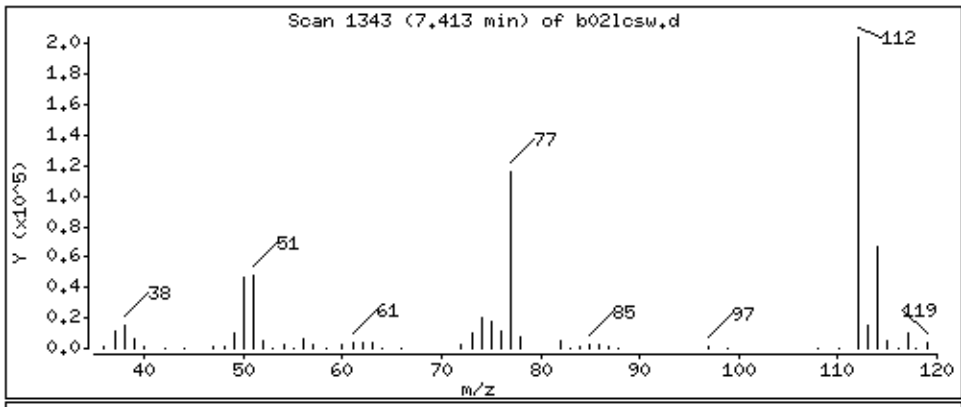
Operator: grm

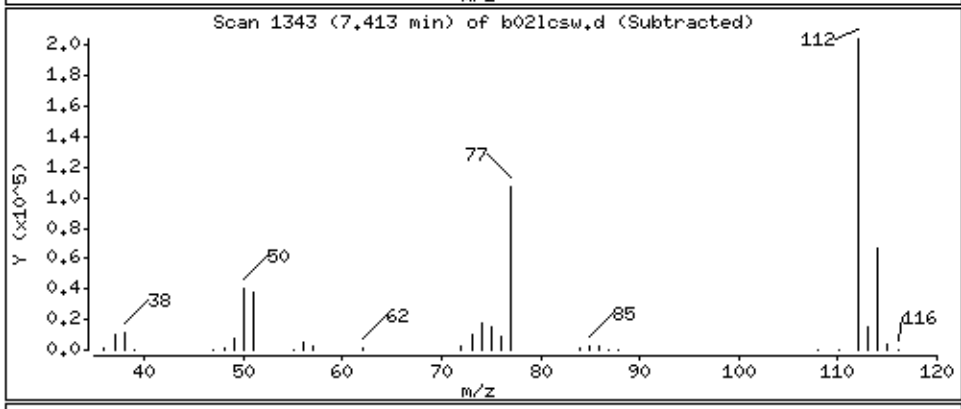
Column phase: DB-624

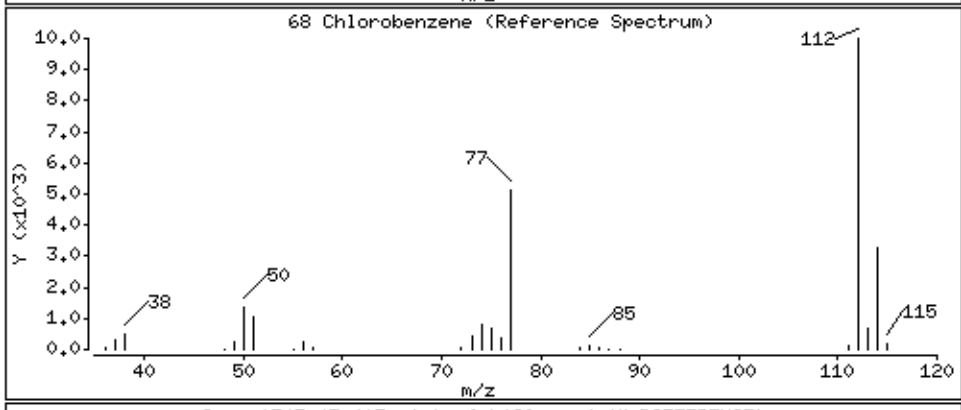
Column diameter: 0.18

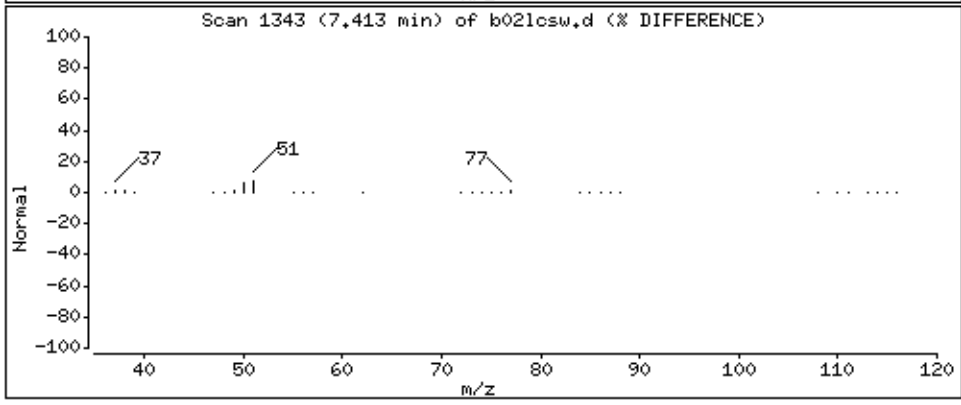
68 Chlorobenzene

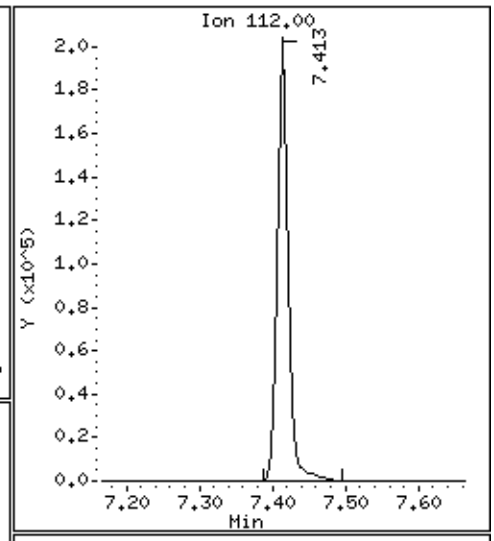
Concentration: 50.8 ppb

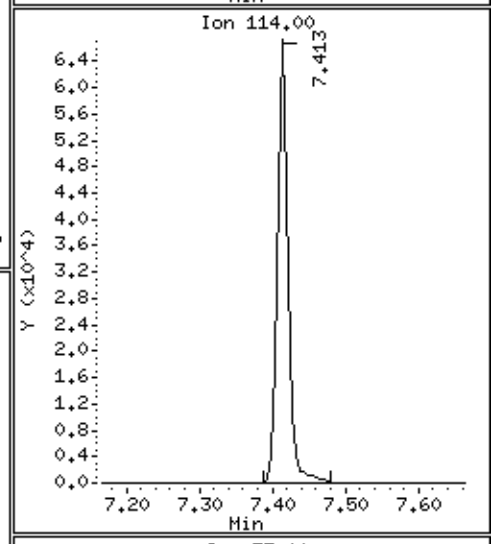


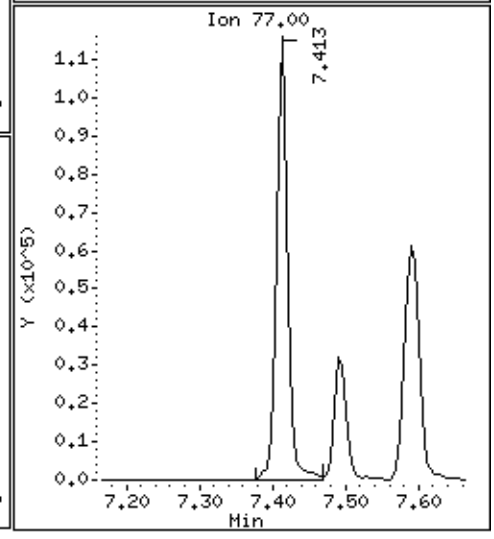












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

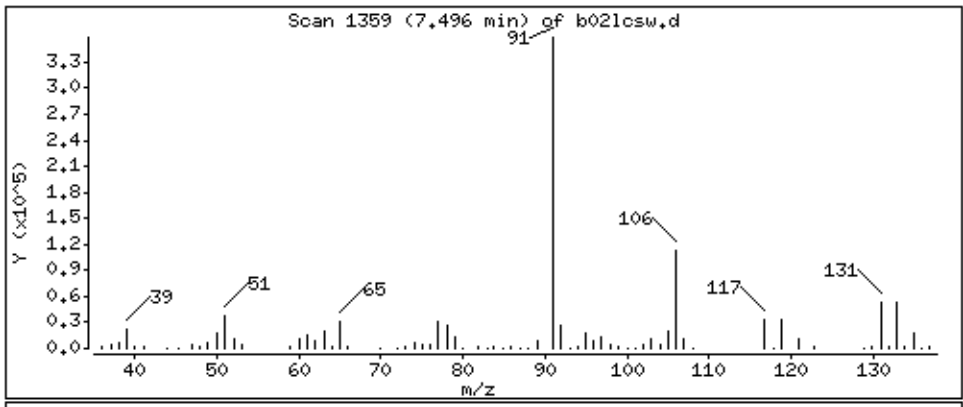
Operator: grm

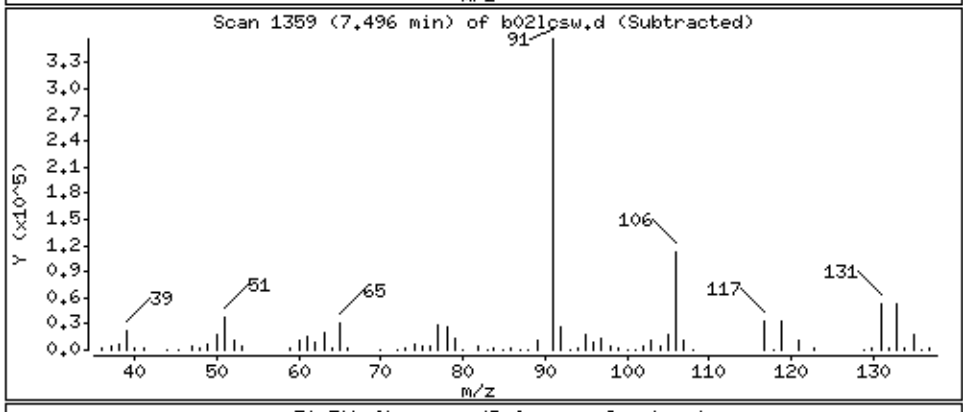
Column phase: DB-624

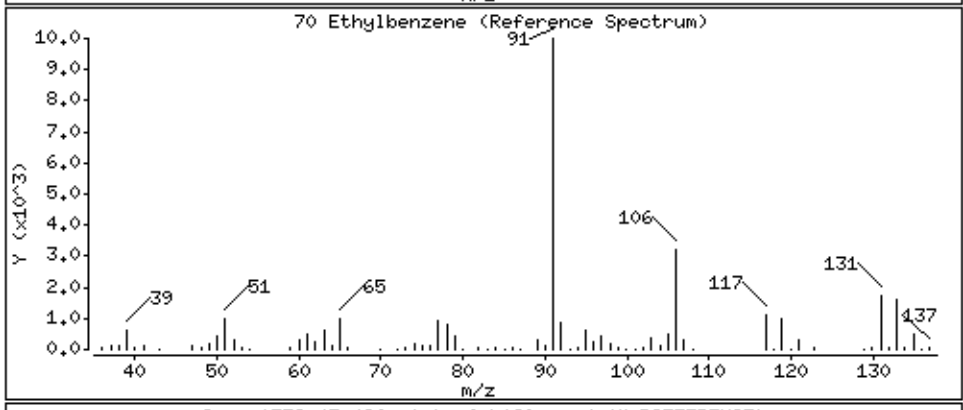
Column diameter: 0.18

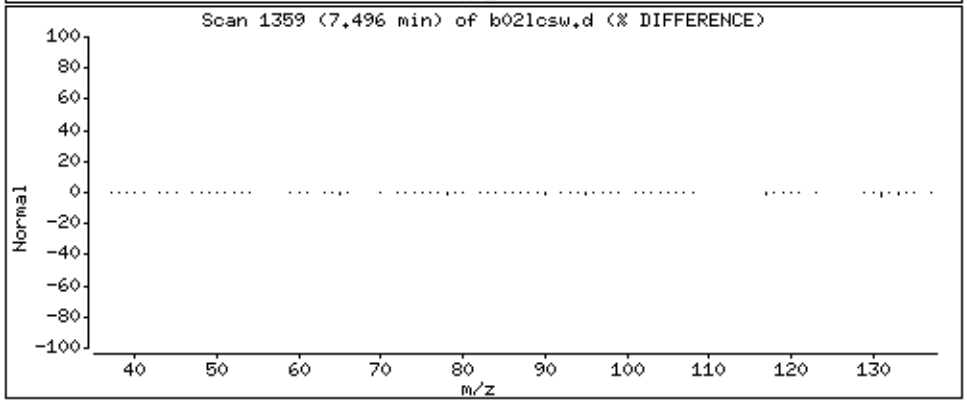
70 Ethylbenzene

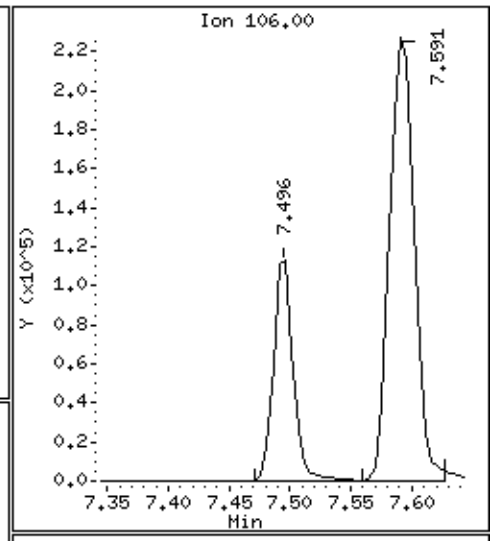
Concentration: 51.9 ppb

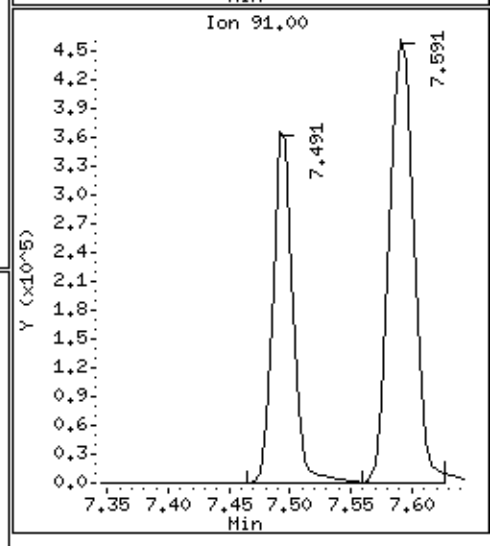












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

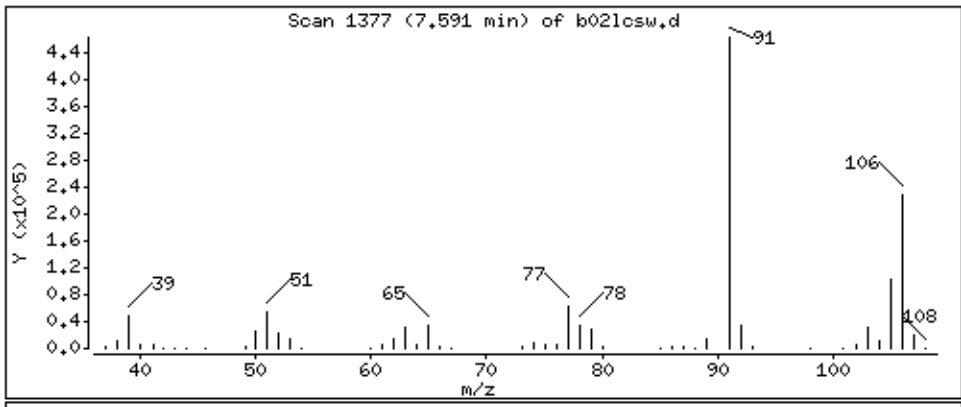
Operator: grm

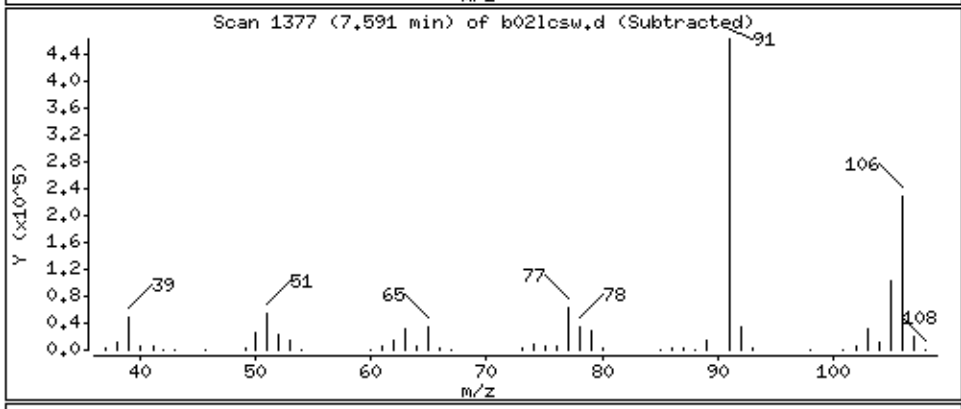
Column phase: DB-624

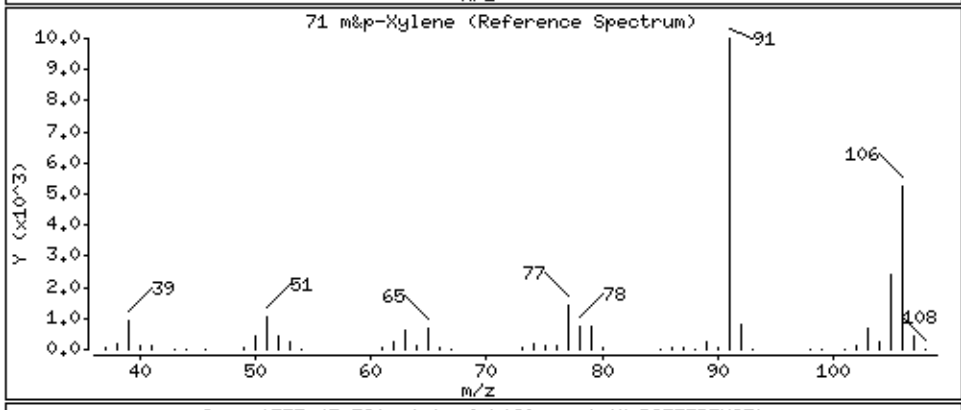
Column diameter: 0.18

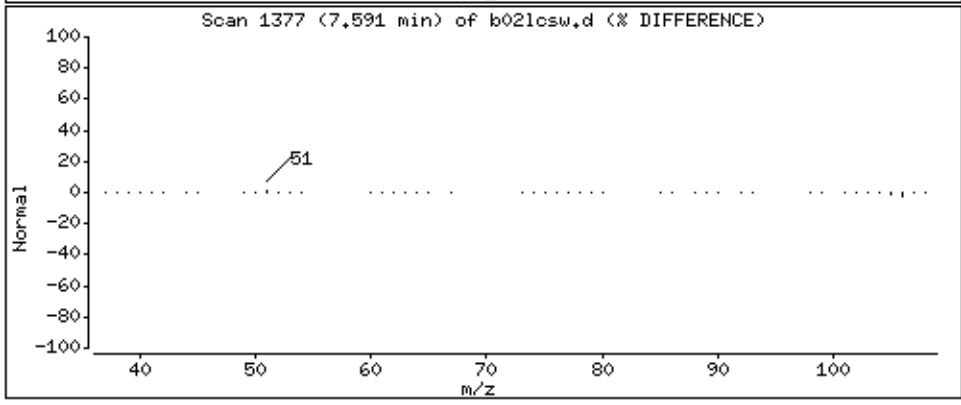
71 m&p-Xylene

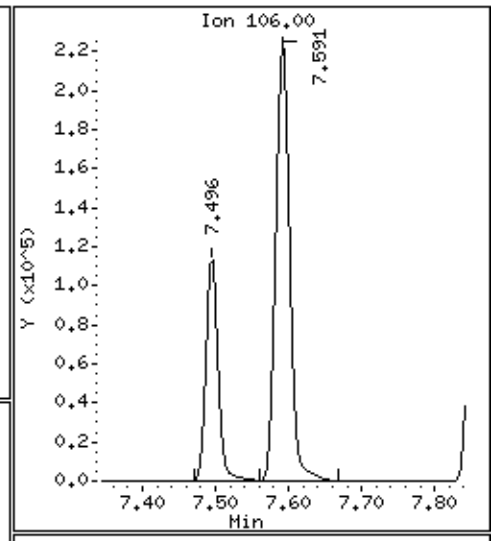
Concentration: 104 ppb

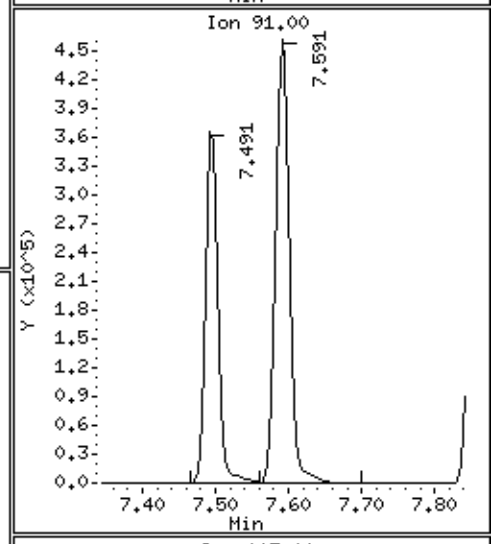


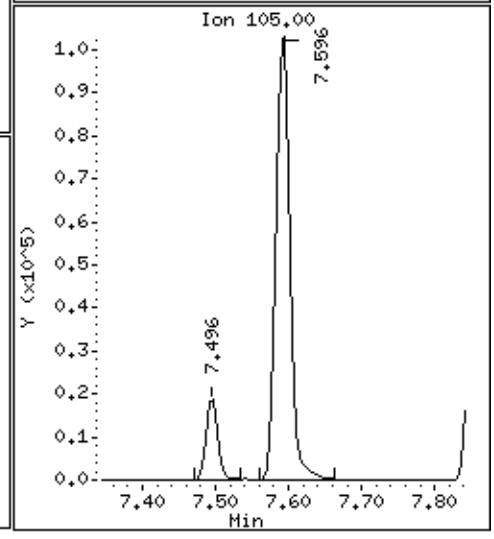












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

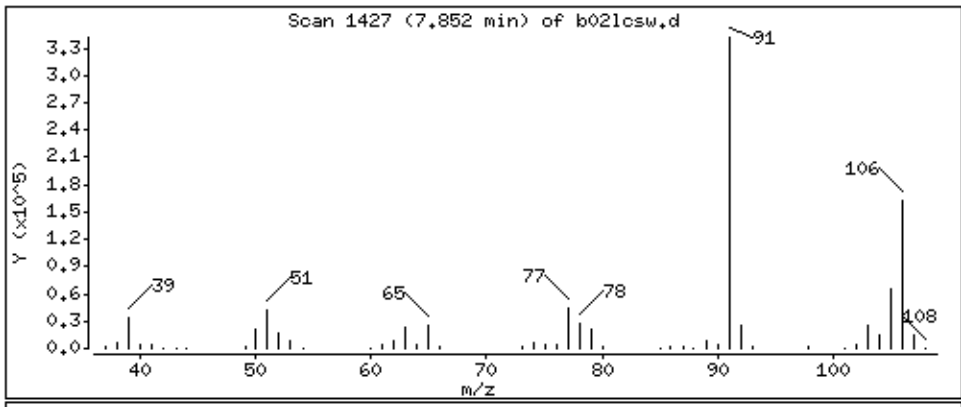
Operator: grm

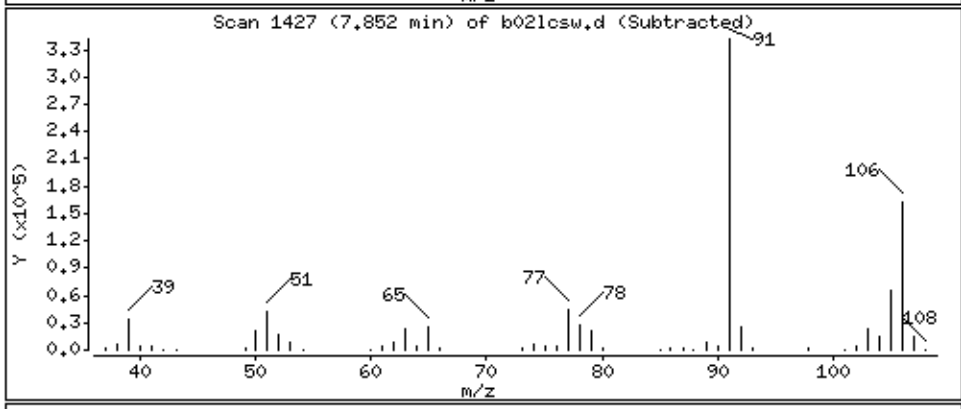
Column phase: DB-624

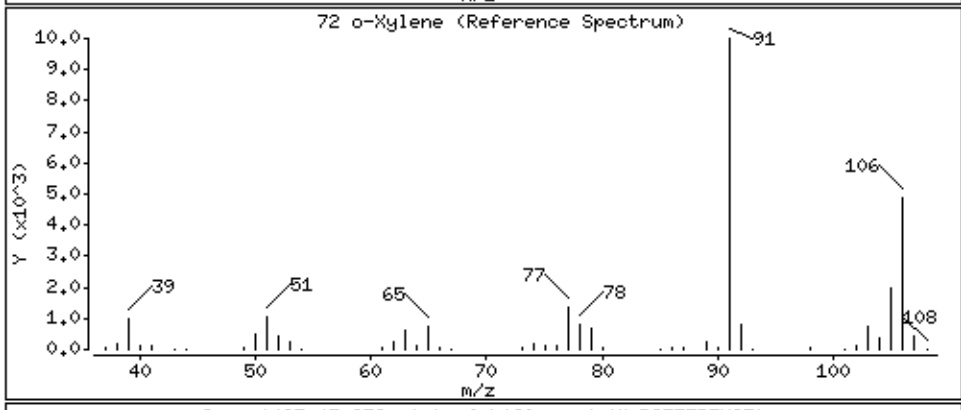
Column diameter: 0.18

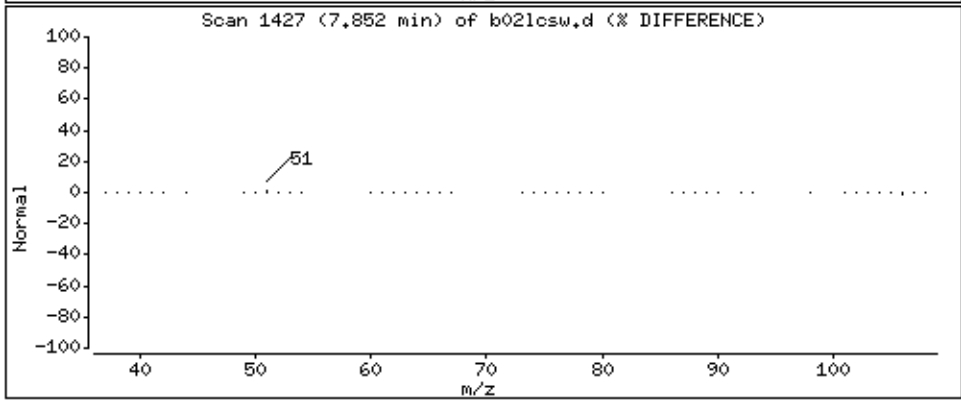
72 o-Xylene

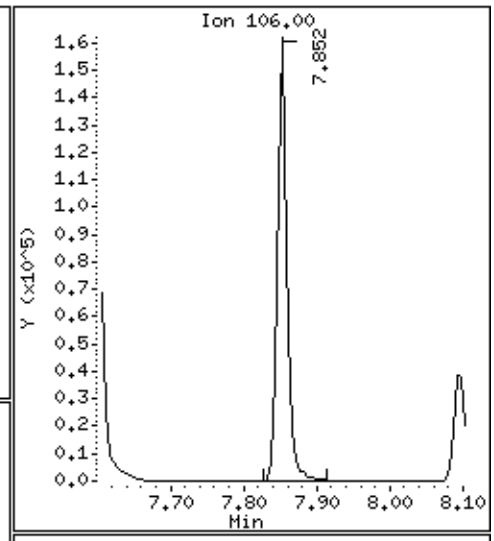
Concentration: 53.1 ppb

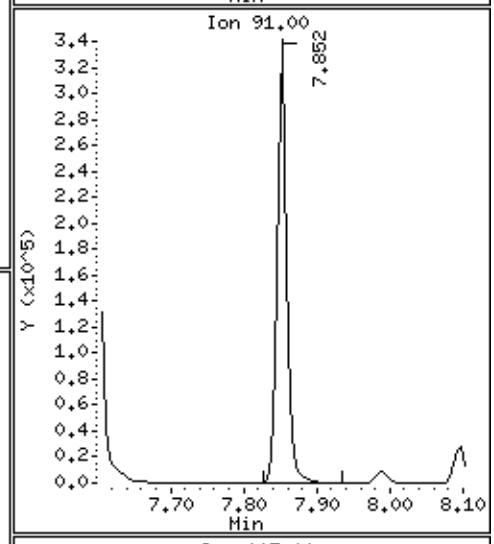


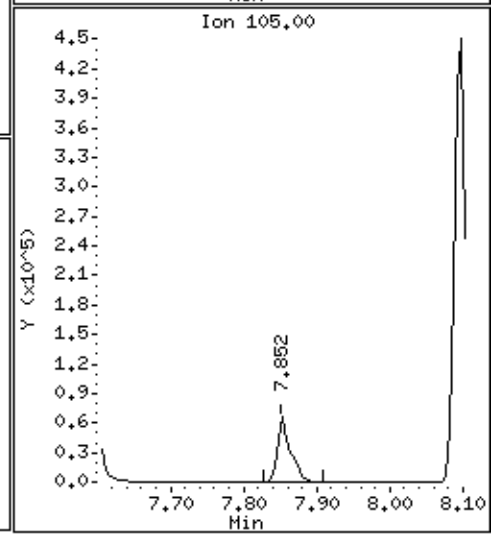












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

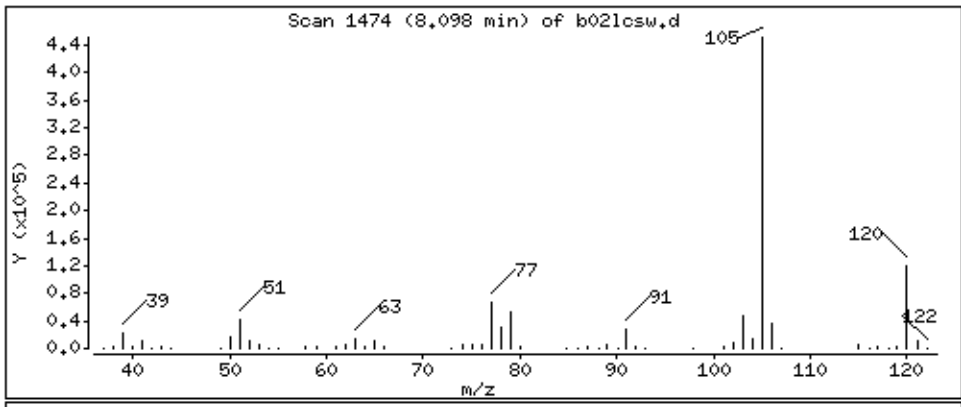
Operator: grm

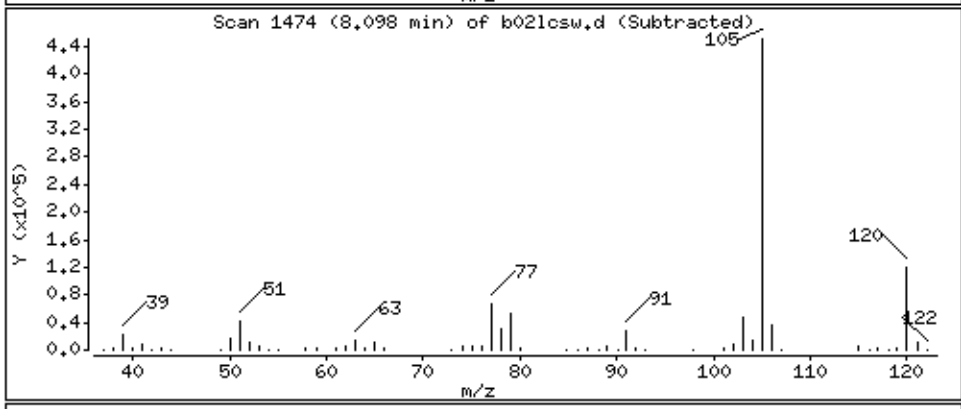
Column phase: DB-624

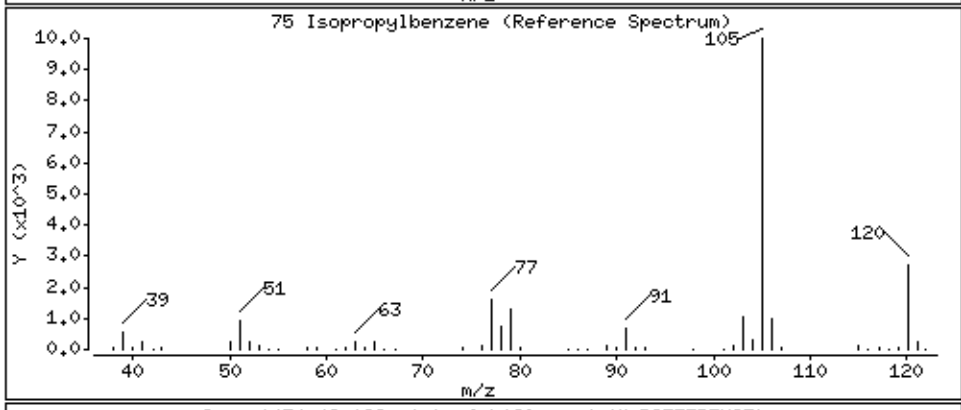
Column diameter: 0.18

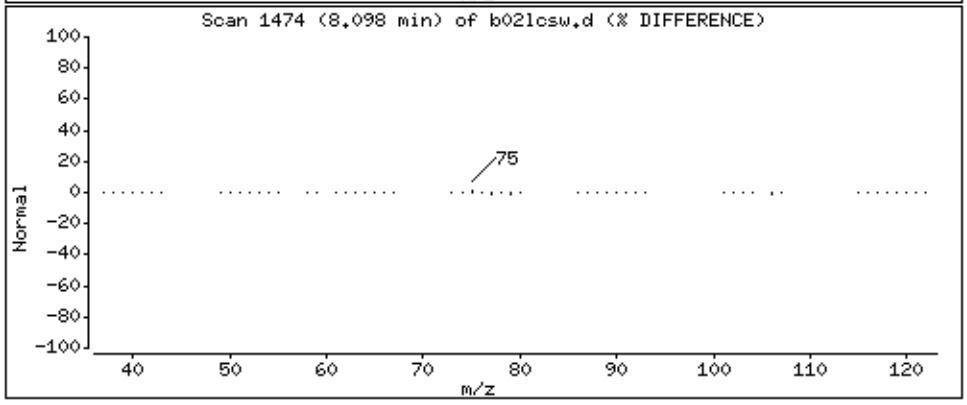
75 Isopropylbenzene

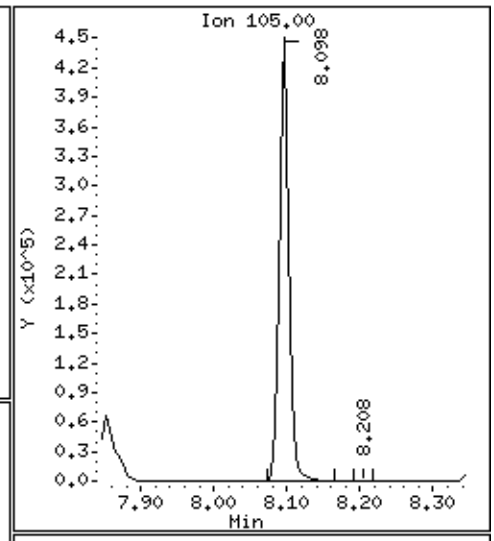
Concentration: 53.0 ppb

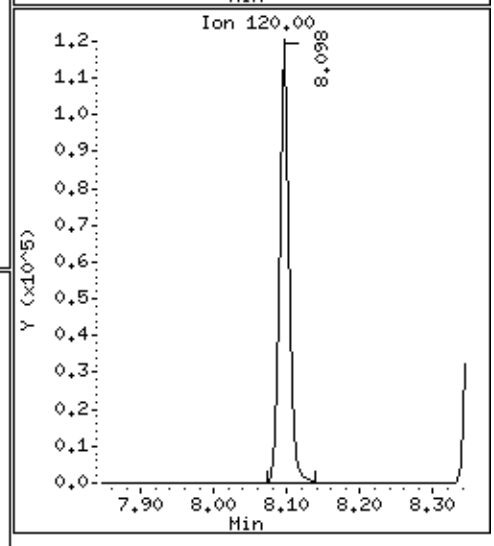












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

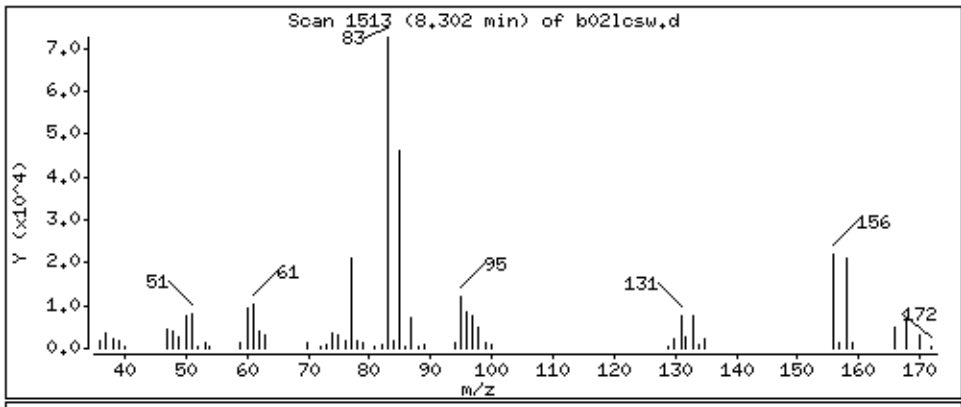
Operator: grm

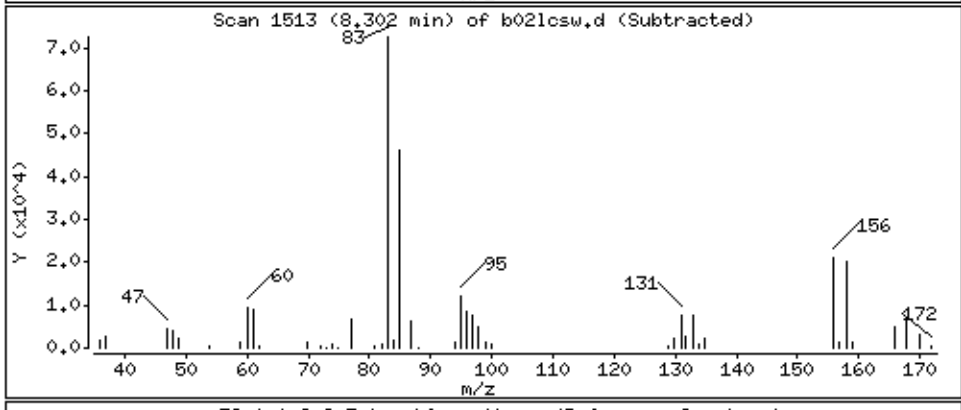
Column phase: DB-624

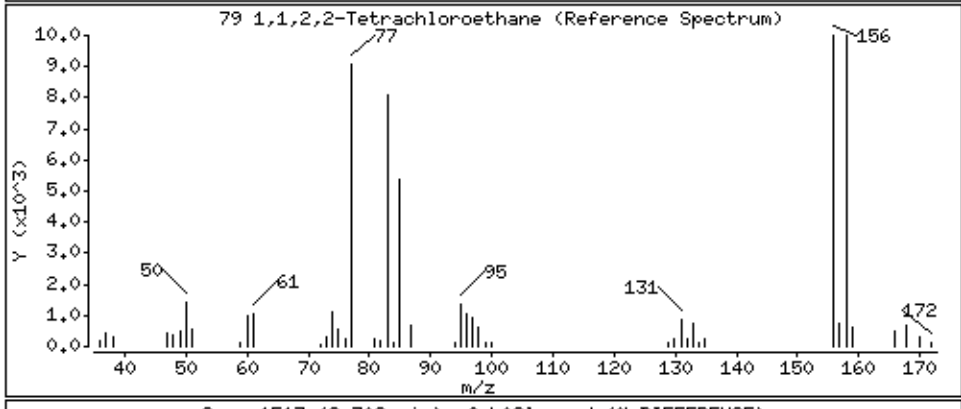
Column diameter: 0.18

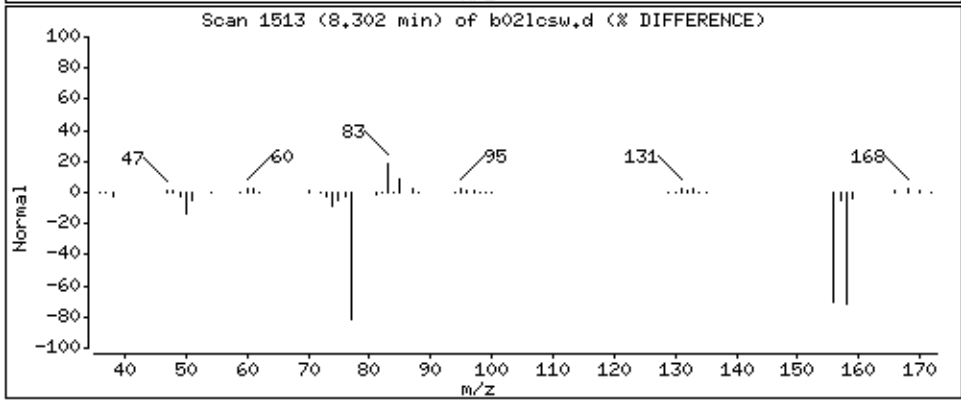
79 1,1,2,2-Tetrachloroethane

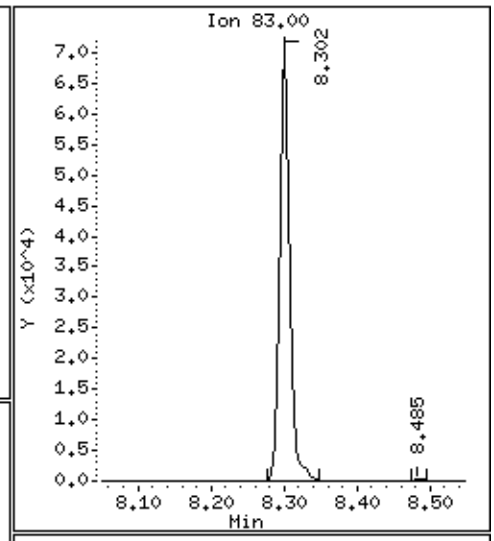
Concentration: 51.2 ppb

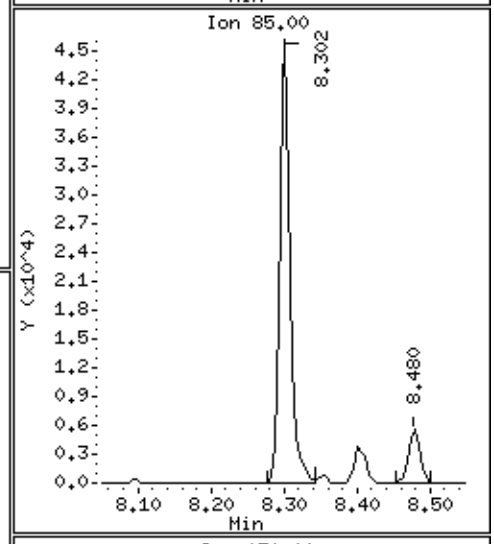


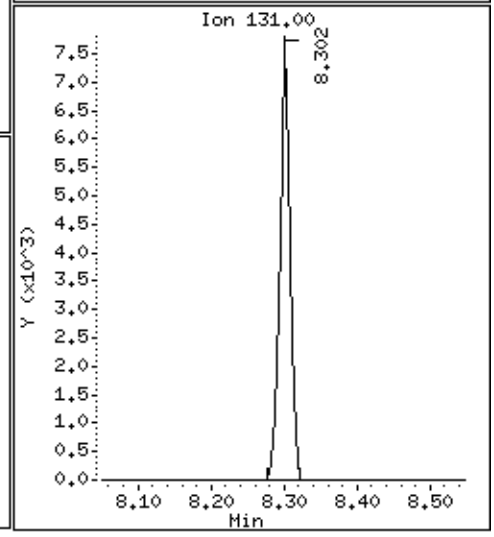












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

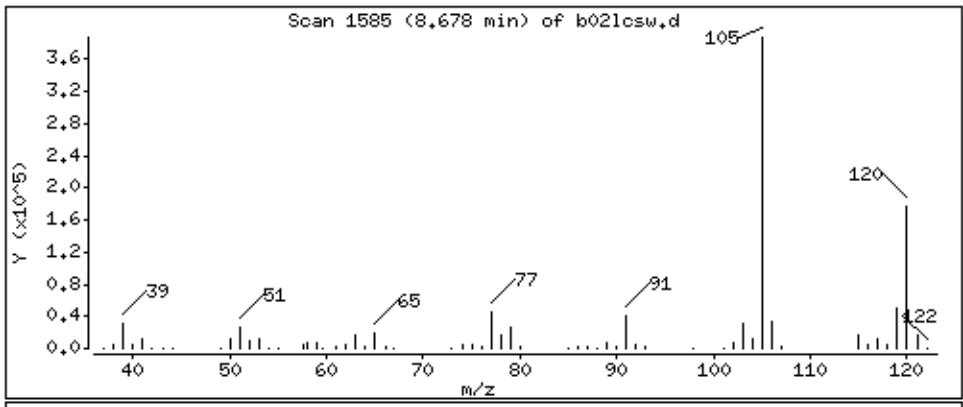
Operator: grm

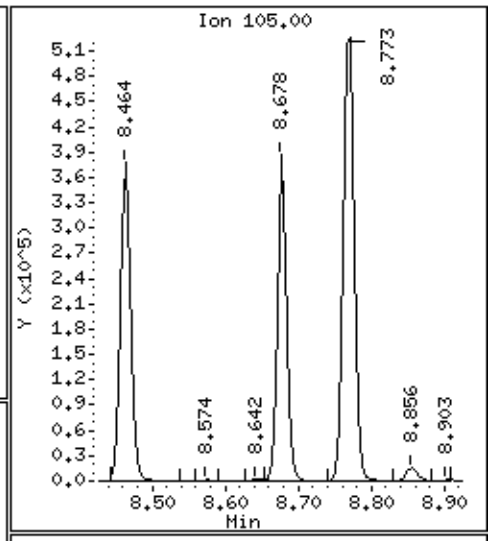
Column phase: DB-624

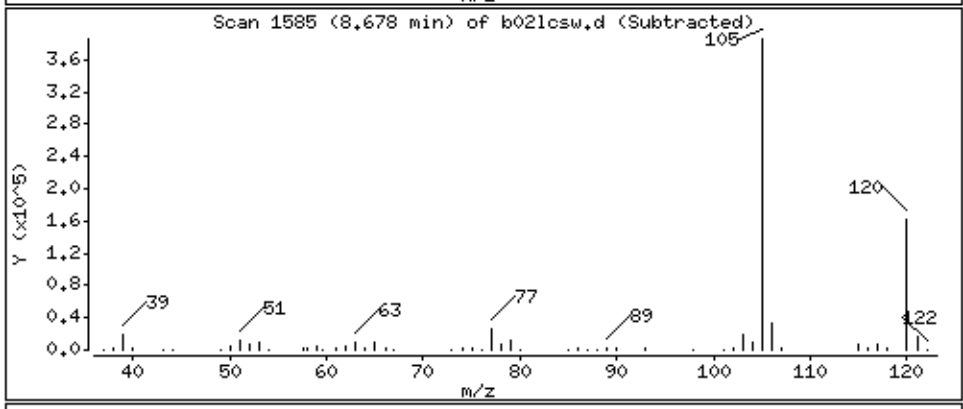
Column diameter: 0.18

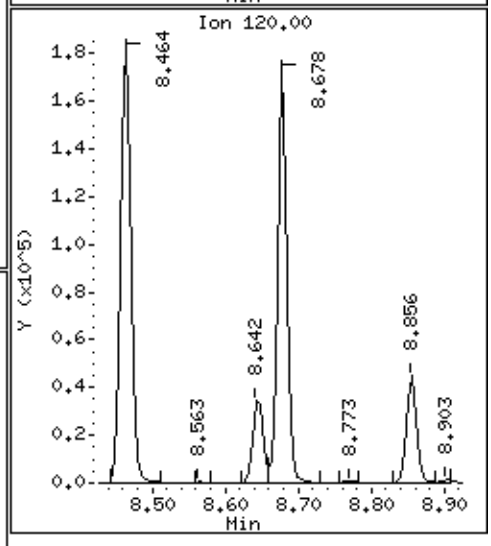
87 1,2,4-Trimethylbenzene

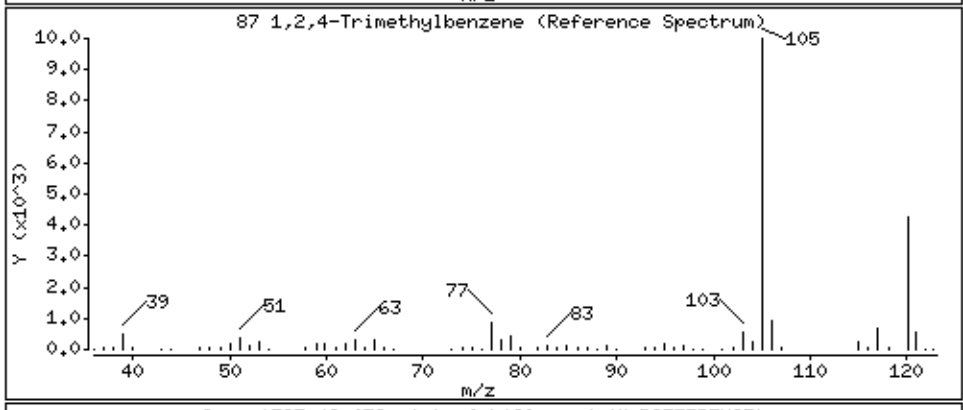
Concentration: 51.8 ppb

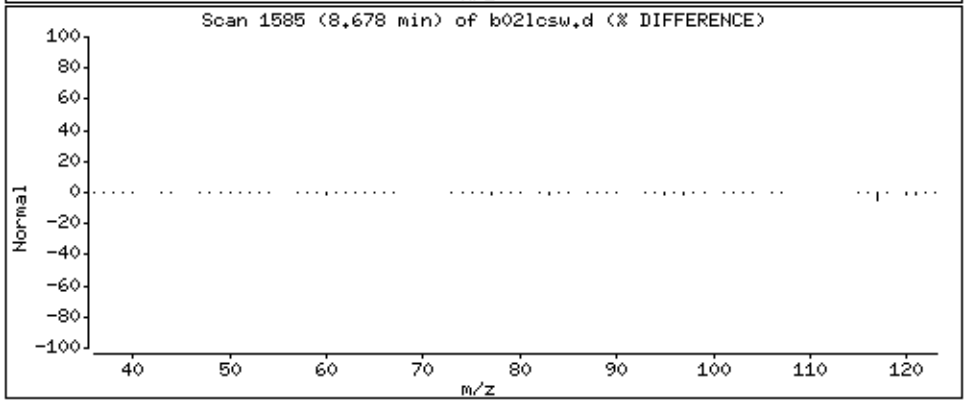












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b\b02lcsw.d

Date : 18-MAR-2016 13:43

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501285,117024:5

Purge Volume: 5.0

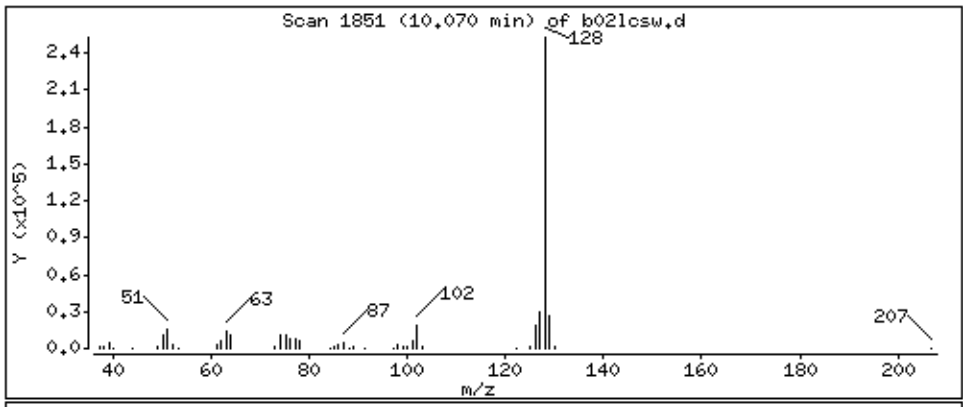
Operator: grm

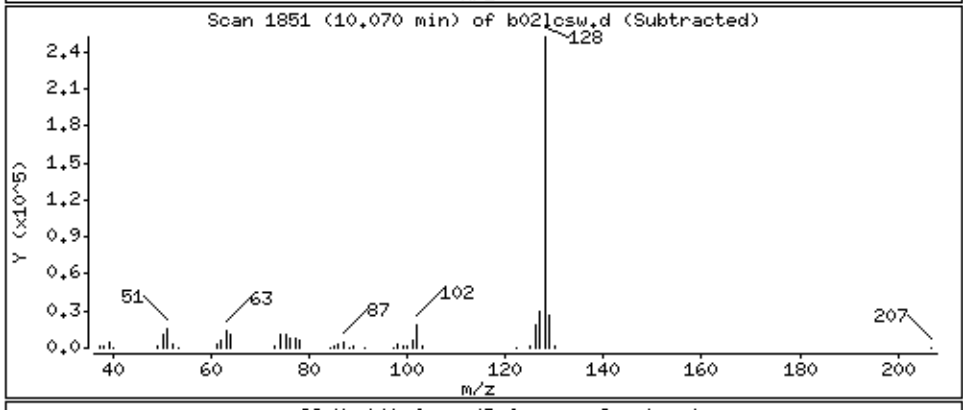
Column phase: DB-624

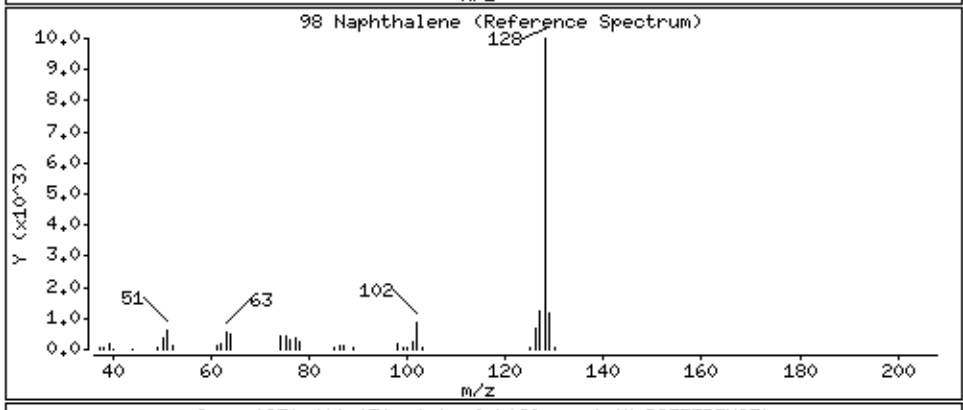
Column diameter: 0.18

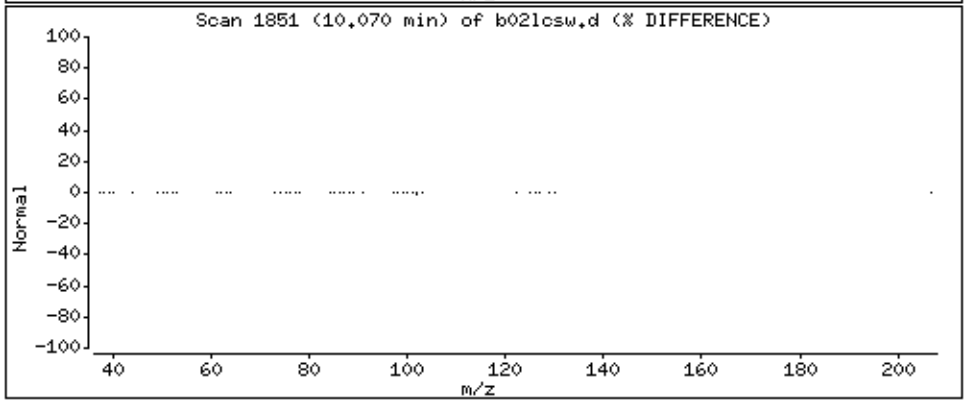
98 Naphthalene

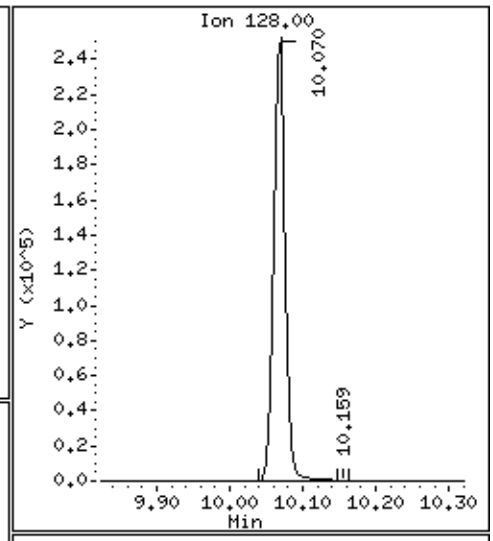
Concentration: 47.4 ppb

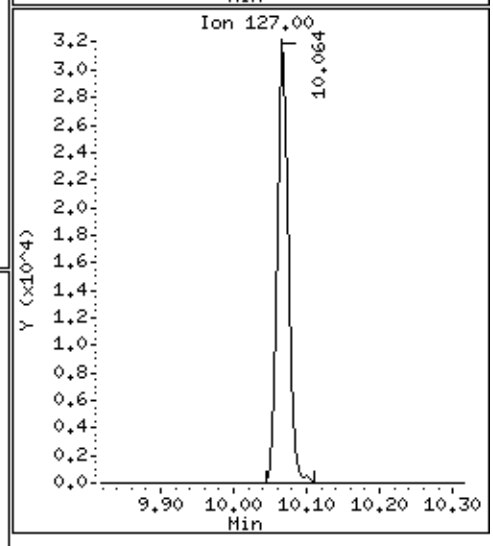












Data File: \\192.168.50.6\chem\50mv1b.i\b031816.b/b02lcsw.d
Injection Date: 18-MAR-2016 13:43
Instrument: 50mv1b.i
Lab Sample ID: 1501285,117024:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/20/2016 15:38 Lab Sample ID: 1501723

Date Analyzed: 03/20/2016 15:38 Lab File ID: B032016.B\B03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/20/2016 15:38 Lab Sample ID: 1501723

Date Analyzed: 03/20/2016 15:38 Lab File ID: B032016.B\B03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d
Lab Smp Id: 1501723 Client Smp ID: MBw
Inj Date : 20-MAR-2016 15:38
Operator : grm Inst ID: 50mv1b.i
Smp Info : mbw
Misc Info : 88107
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b032016.b\b8260_a_c.m
Meth Date : 21-Mar-2016 11:26 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 54 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	1.017	1.012	(0.240)	2640	0.72629	0.726	
	18 Methylene Chloride	84	1.901	1.901	(0.449)	1641	0.94442	0.944	
$	38 Dibromofluoromethane (S)	113	3.402	3.397	(0.804)	82578	52.2545	52.2	
*	46 Fluorobenzene (IS)	96	4.234	4.234	(1.000)	304322	50.0000		
$	57 Toluene-d8	98	6.075	6.075	(0.822)	293494	49.5295	49.5	
	58 Toluene	91	6.153	6.148	(0.832)	3876	0.53330	0.533	
*	67 Chlorobenzene-D5 (IS)	117	7.393	7.393	(1.000)	228213	50.0000		
	71 m&p-Xylene	106	7.597	7.592	(1.028)	617	0.19193	0.192(Q)	
	73 Styrene	104	7.874	7.869	(1.065)	454	0.08706	0.0871	
	75 Isopropylbenzene	105	8.094	8.094	(1.095)	1139	0.12844	0.128	
$	76 4-Bromofluorobenzene	95	8.209	8.209	(1.110)	106896	51.5989	51.6	
	77 Bromobenzene	77	8.287	8.287	(1.121)	658	0.22146	0.221(Q)	
	84 1,3,5-Trimethylbenzene	105	8.465	8.465	(0.953)	759	0.11440	0.114(Q)	
	87 1,2,4-Trimethylbenzene	105	8.685	8.680	(0.978)	1020	0.14775	0.148	
	89 1,3-Dichlorobenzene	146	8.842	8.842	(0.995)	735	0.17865	0.179(Q)	
*	91 1,4-Dichlorobenzene-d4 (IS)	152	8.884	8.884	(1.000)	119534	50.0000		
	92 1,4-Dichlorobenzene	146	8.899	8.899	(1.002)	1006	0.24367	0.244(Q)	
	94 1,2-Dichlorobenzene	146	9.093	9.088	(1.024)	558	0.15426	0.154(Q)	
	100 2,methyl-naphthalene	142	10.693	10.693	(1.204)	2888	0.70514	0.705	
	101 1-methylnaphthalene	142	10.813	10.814	(1.217)	2694	0.72836	0.728	

QC Flag Legend

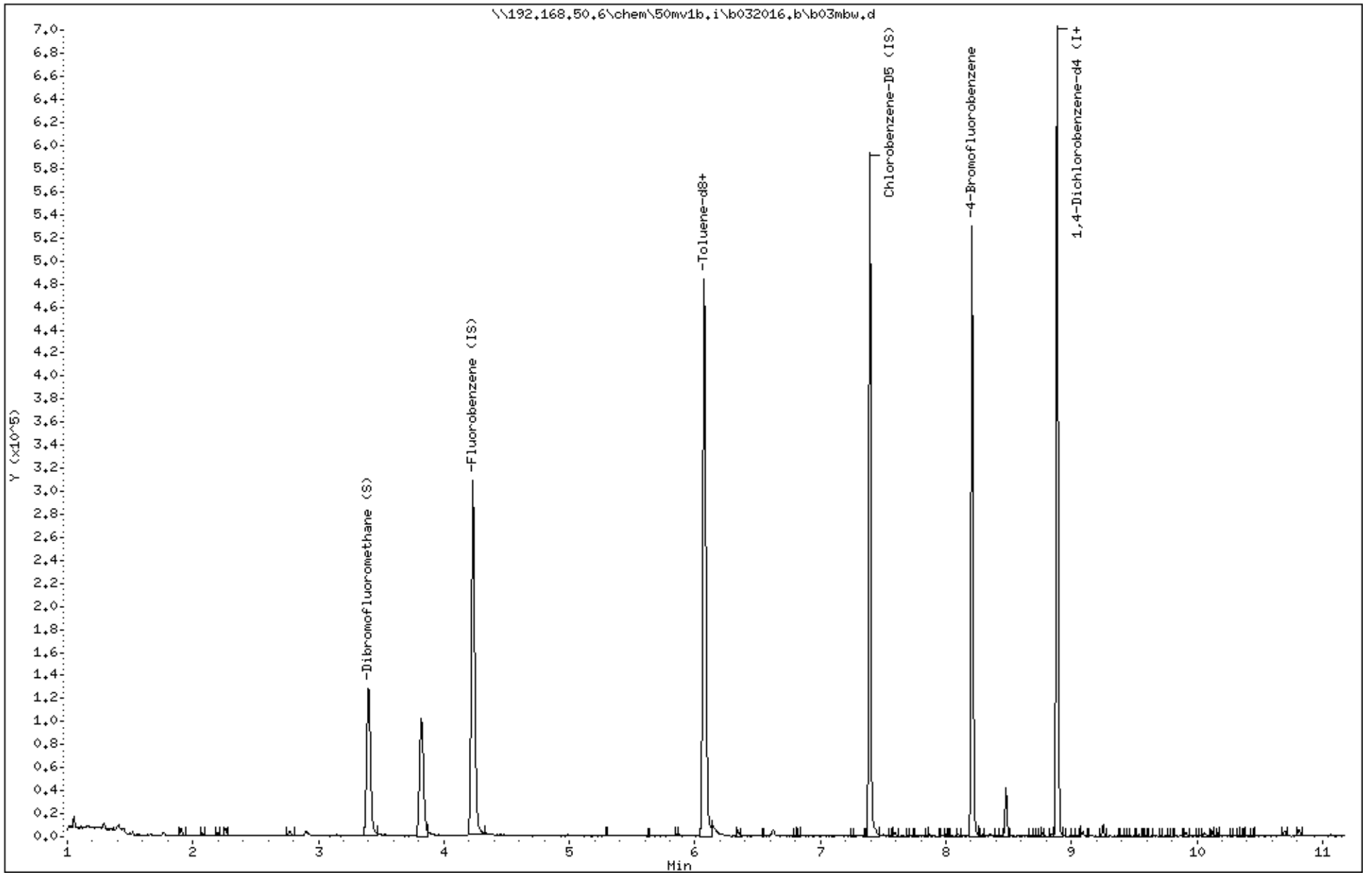
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d
Date : 20-MAR-2016 15:38
Client ID: MBw
Sample Info: MBw
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv1b.i
Operator: grm
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

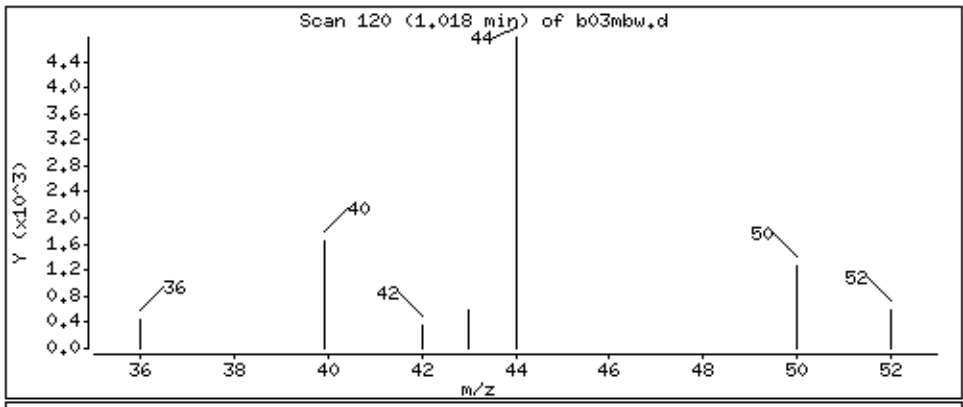
Operator: grm

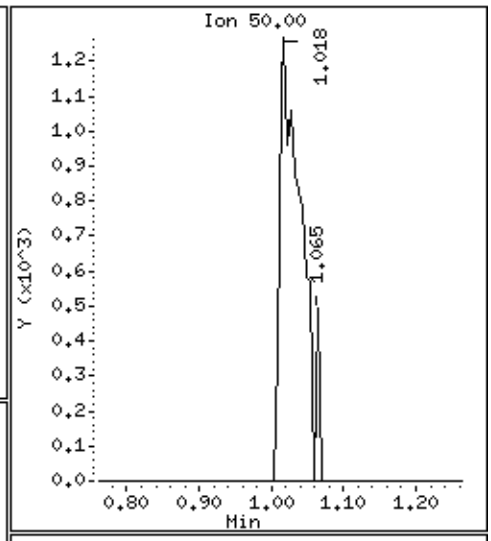
Column phase: DB-624

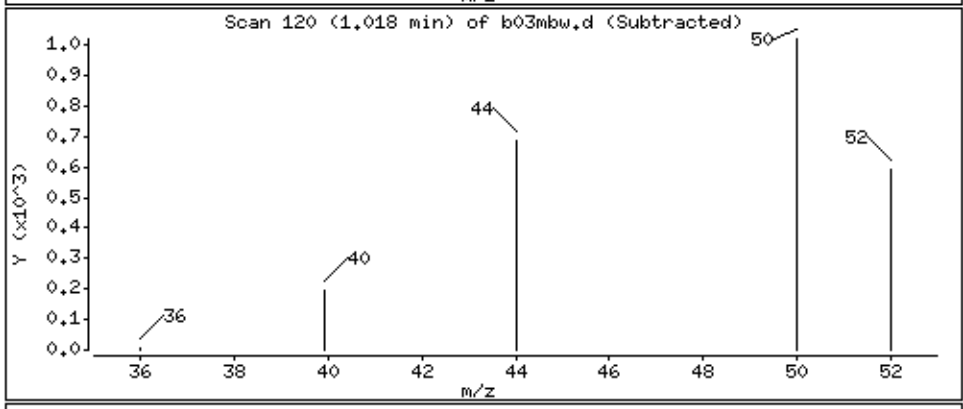
Column diameter: 0.18

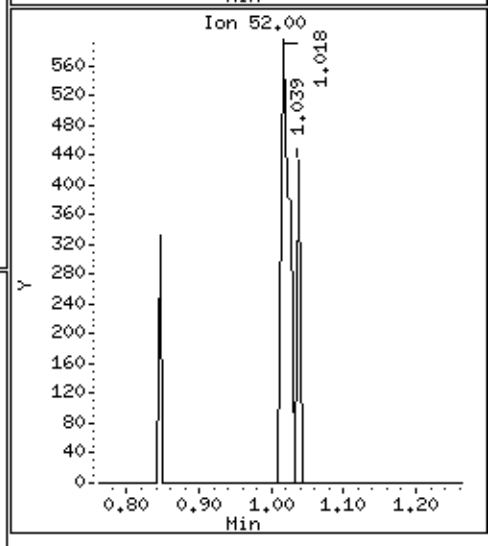
2 Chloromethane

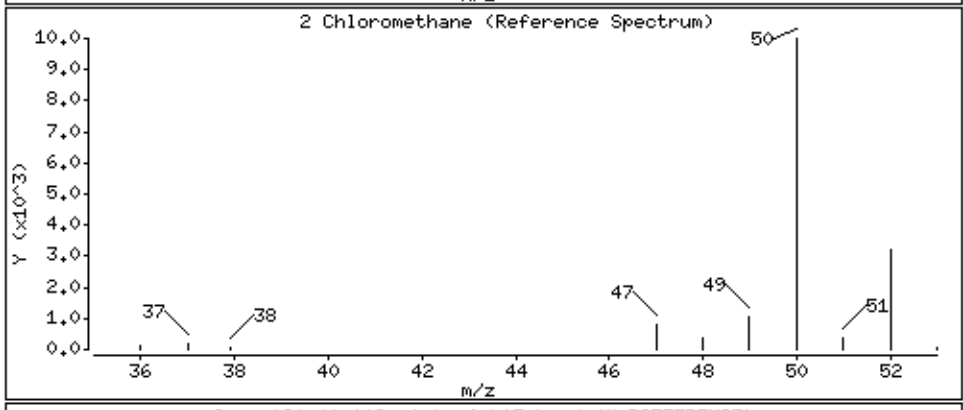
Concentration: 0.726 ppb

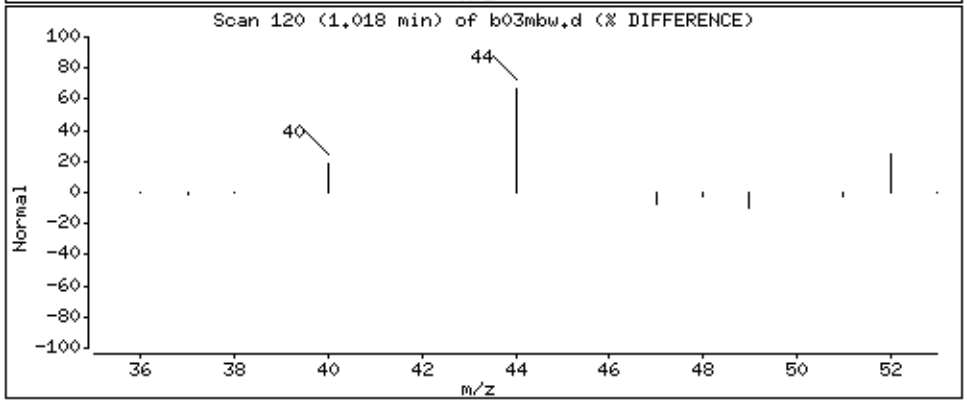












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

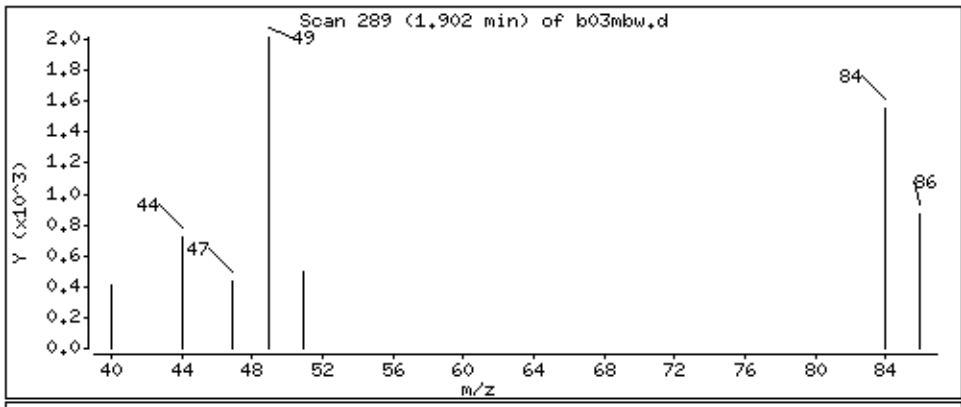
Operator: grm

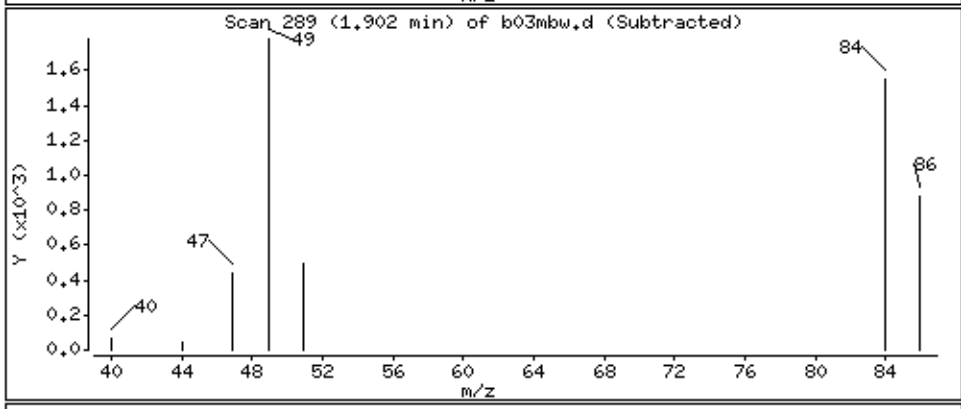
Column phase: DB-624

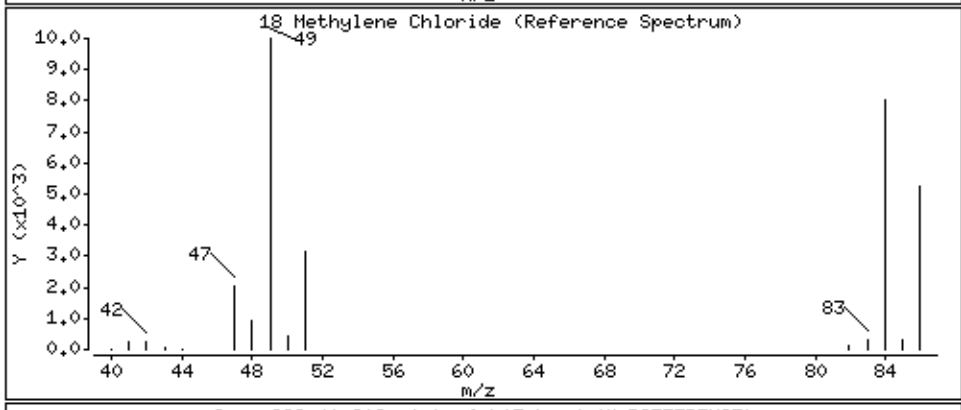
Column diameter: 0.18

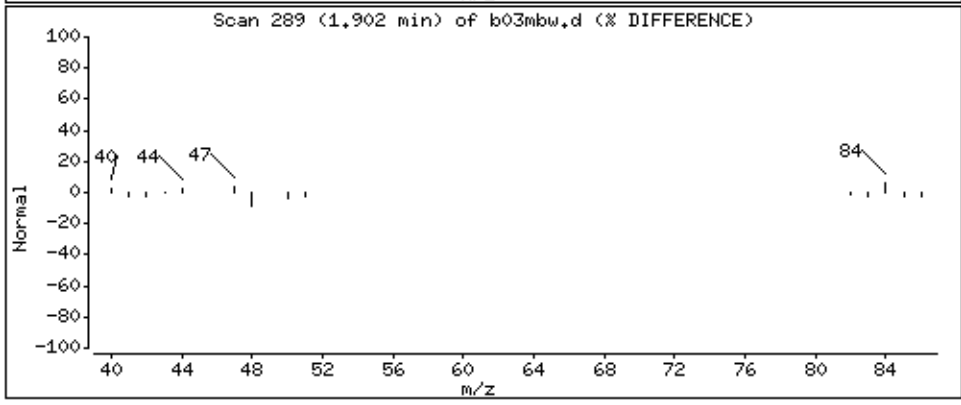
18 Methylene Chloride

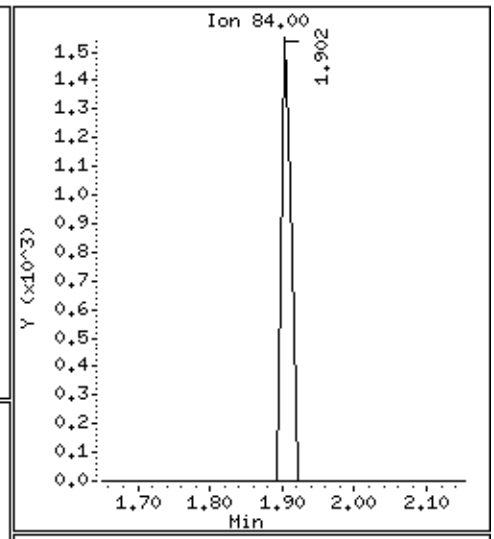
Concentration: 0.944 ppb

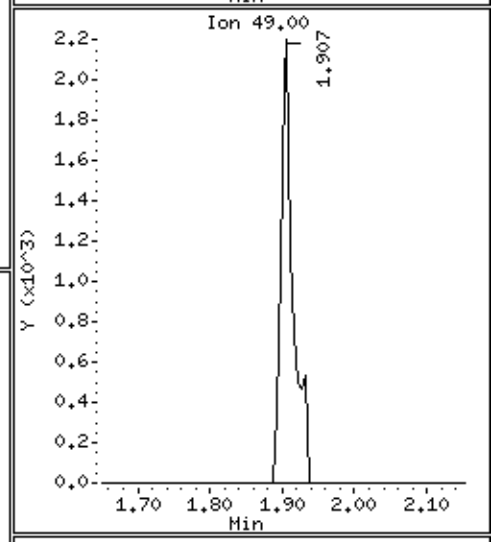


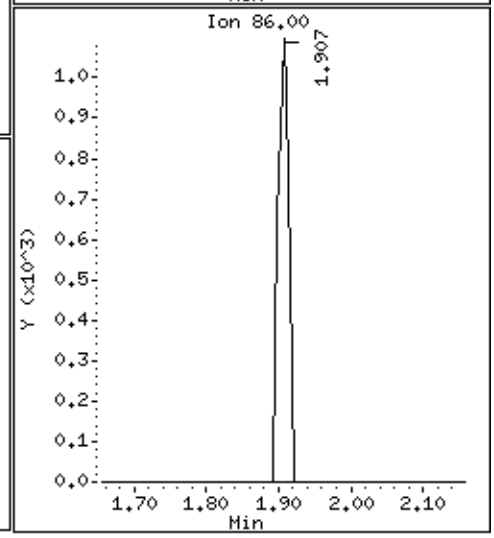












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

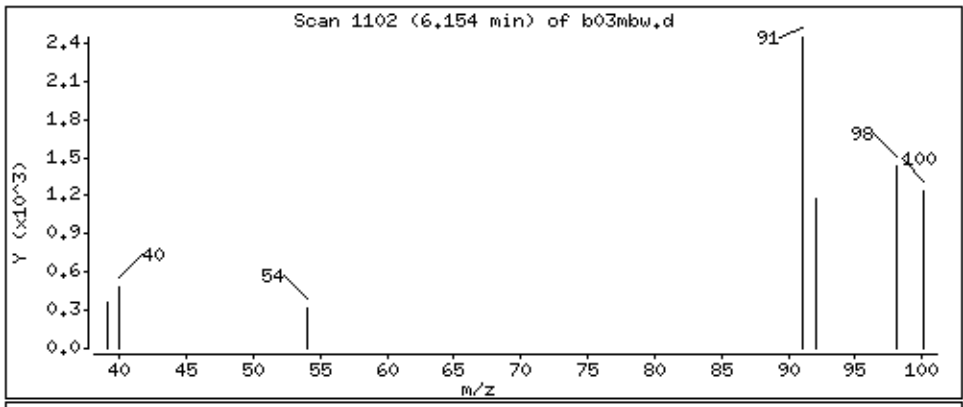
Operator: grm

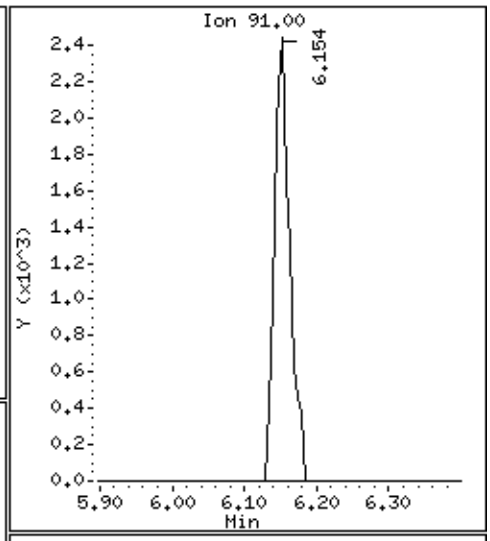
Column phase: DB-624

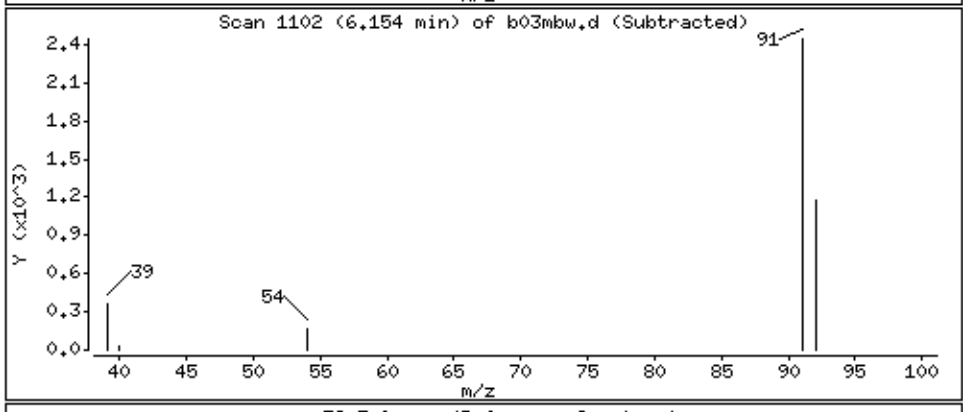
Column diameter: 0.18

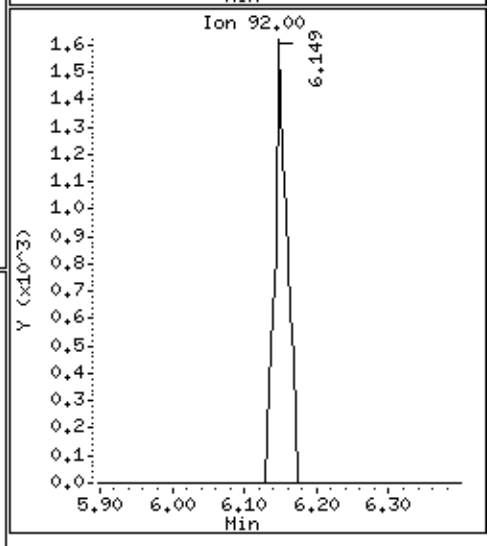
58 Toluene

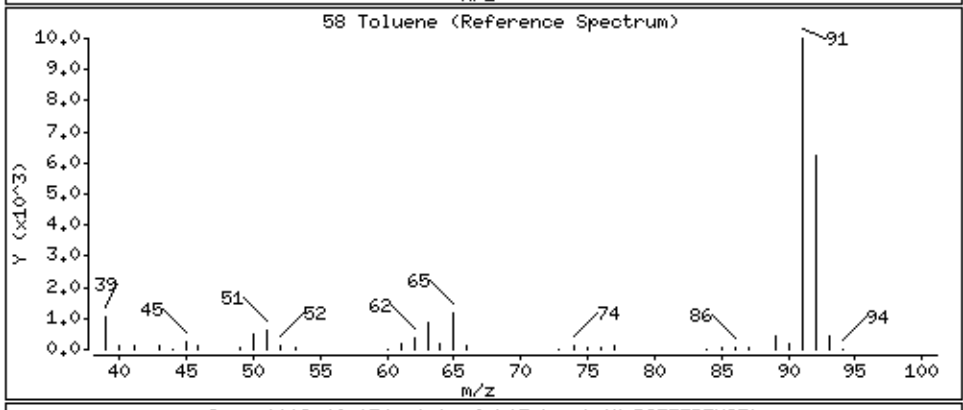
Concentration: 0.533 ppb

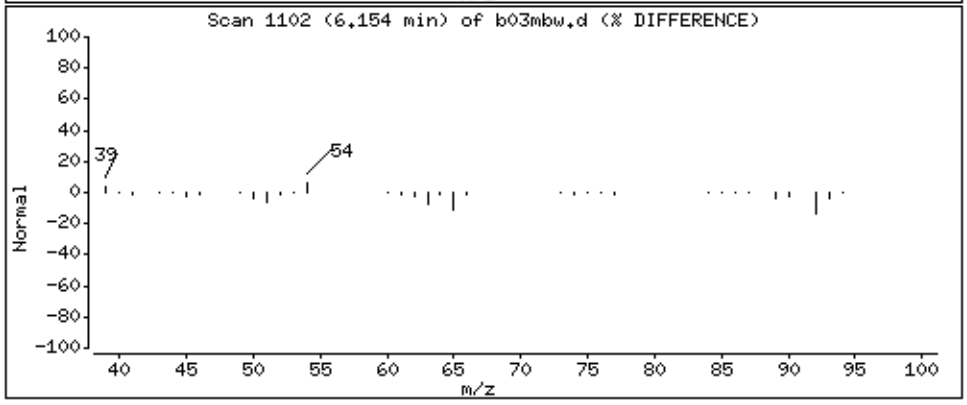












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

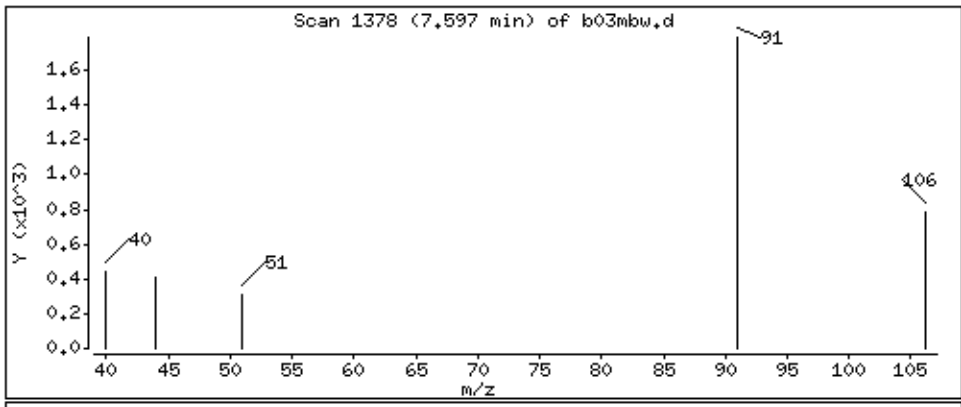
Operator: grm

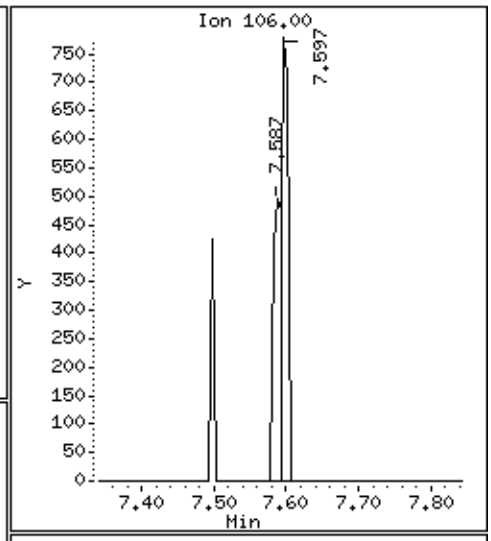
Column phase: DB-624

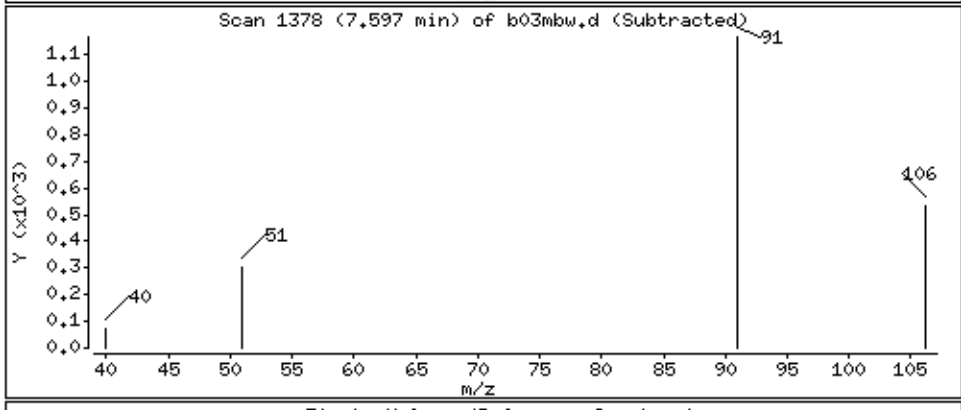
Column diameter: 0.18

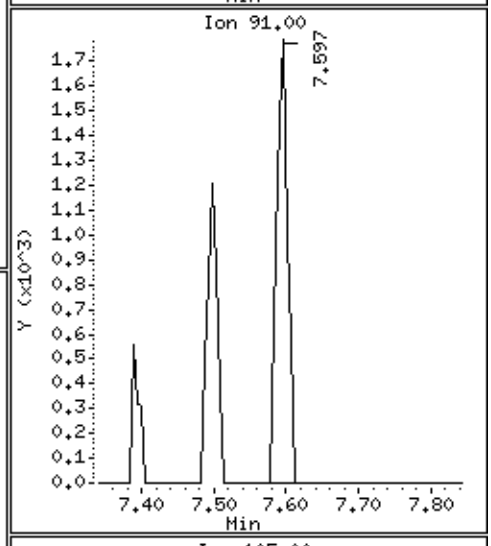
71 m&p-Xylene

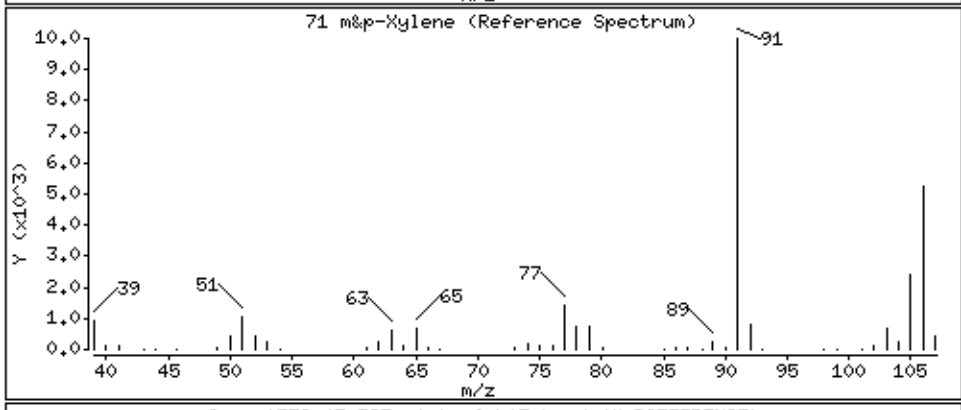
Concentration: 0.192 ppb

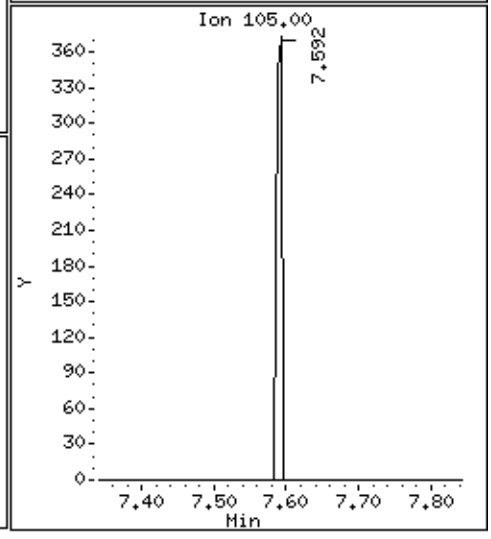


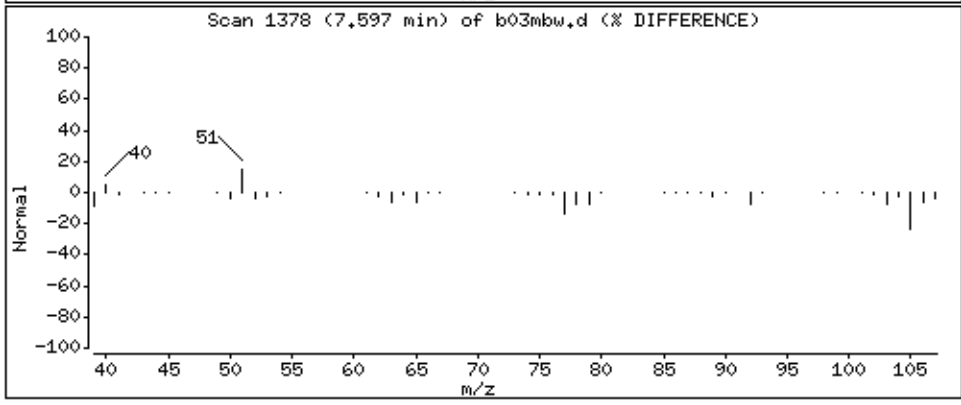












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

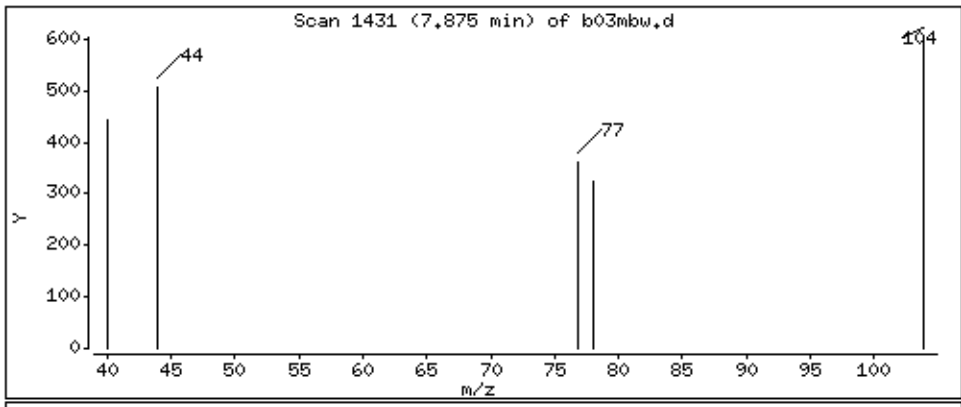
Operator: grm

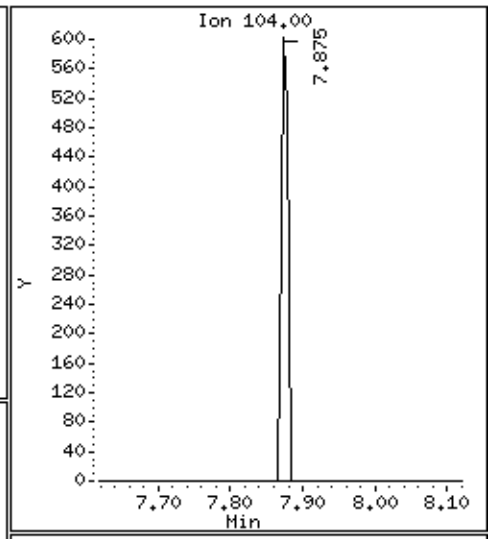
Column phase: DB-624

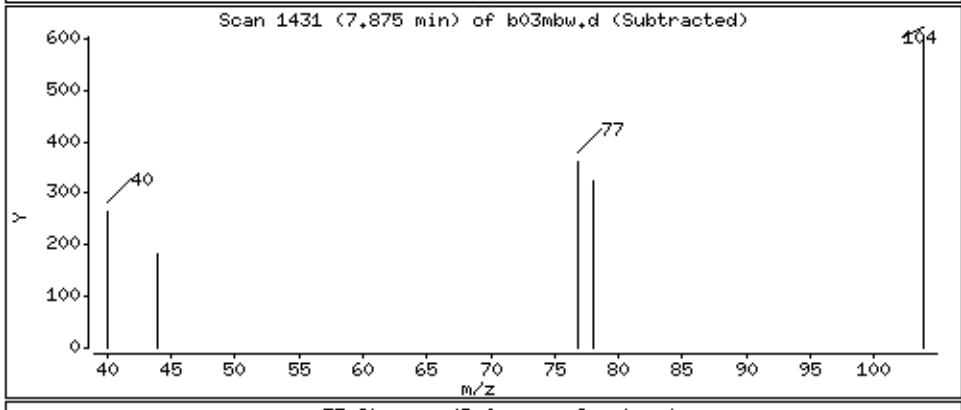
Column diameter: 0.18

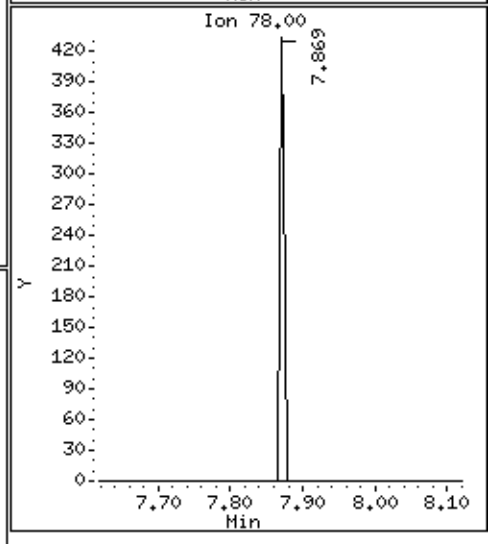
73 Styrene

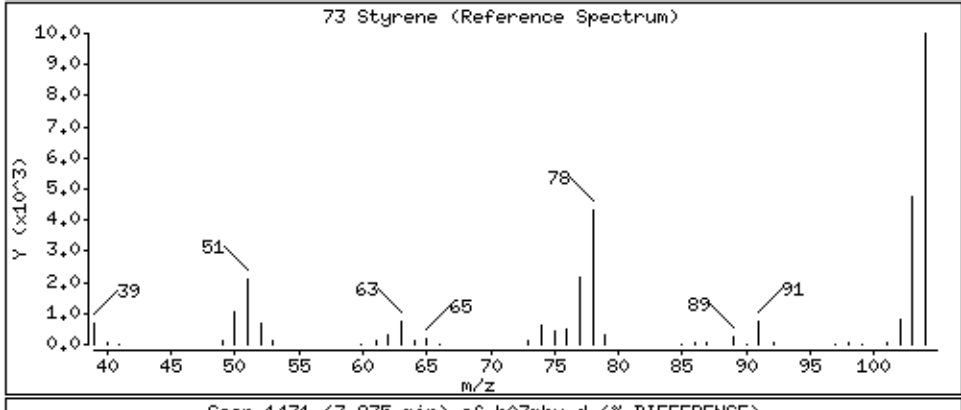
Concentration: 0.0871 ppb

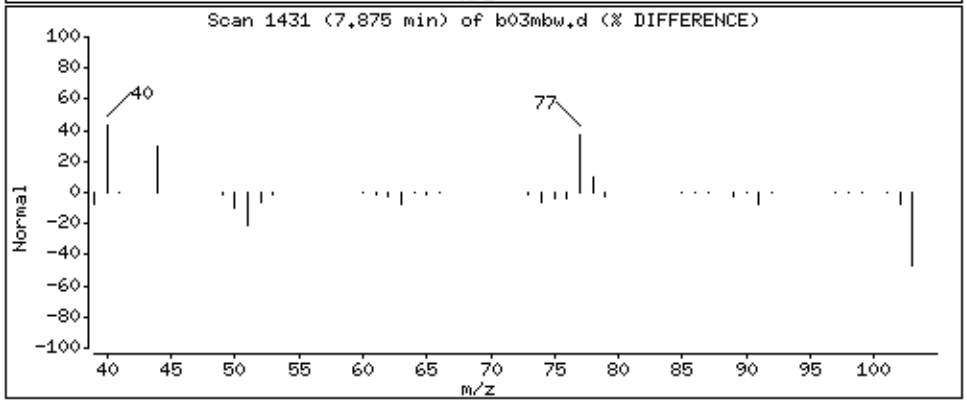












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

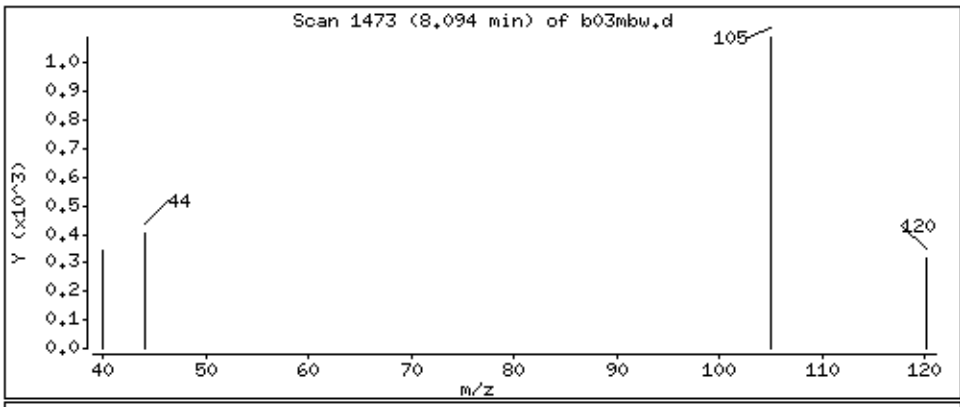
Operator: grm

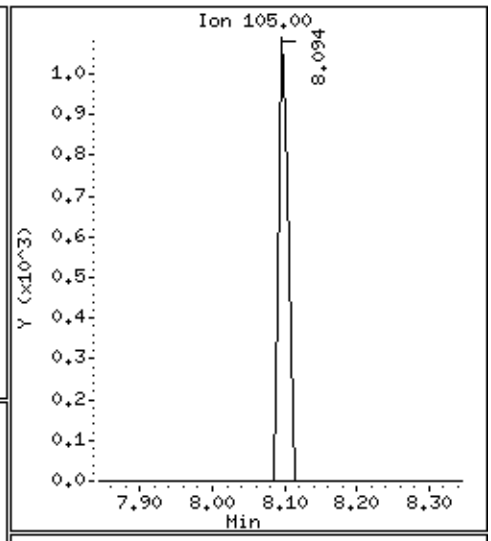
Column phase: DB-624

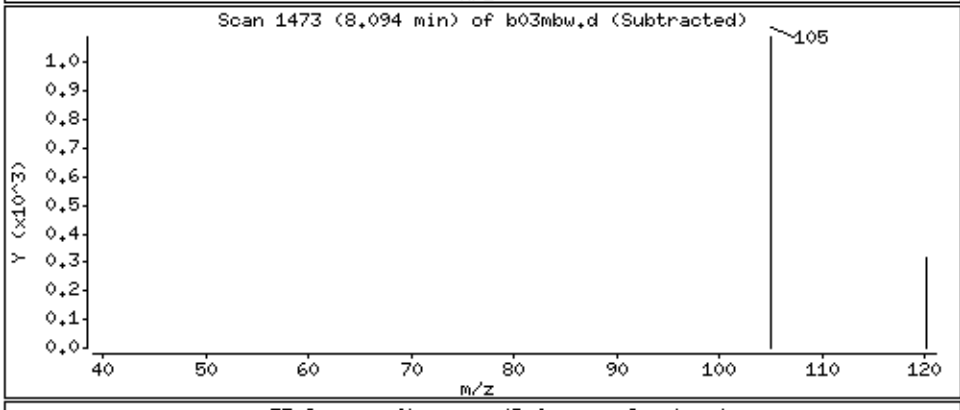
Column diameter: 0.18

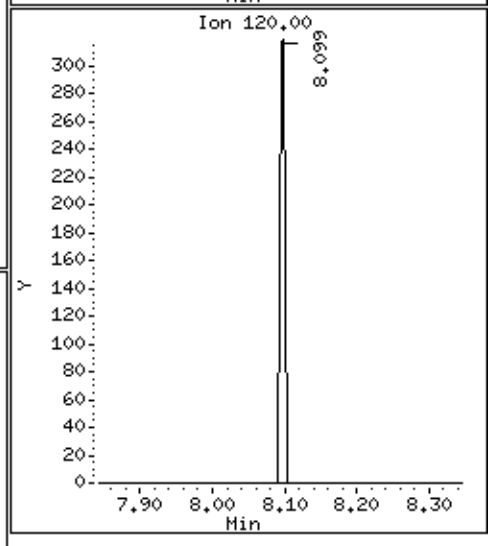
75 Isopropylbenzene

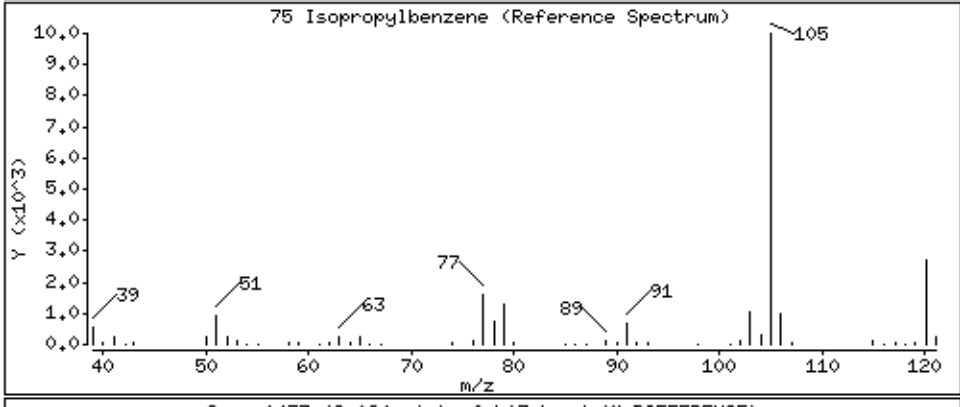
Concentration: 0.128 ppb

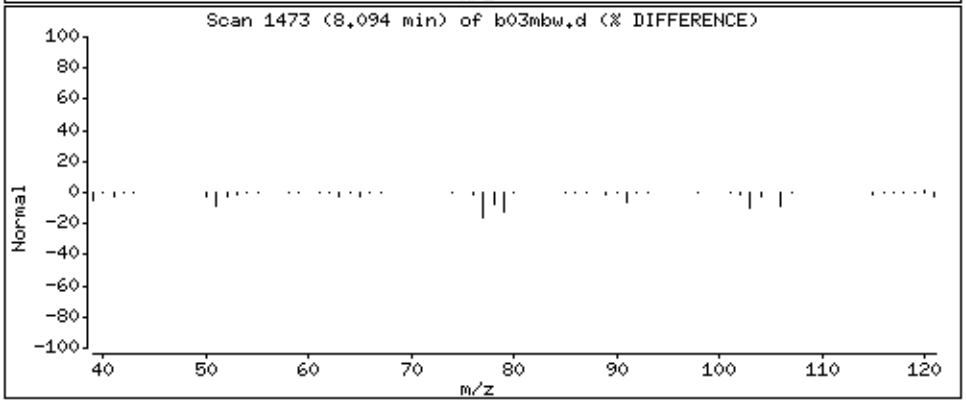












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

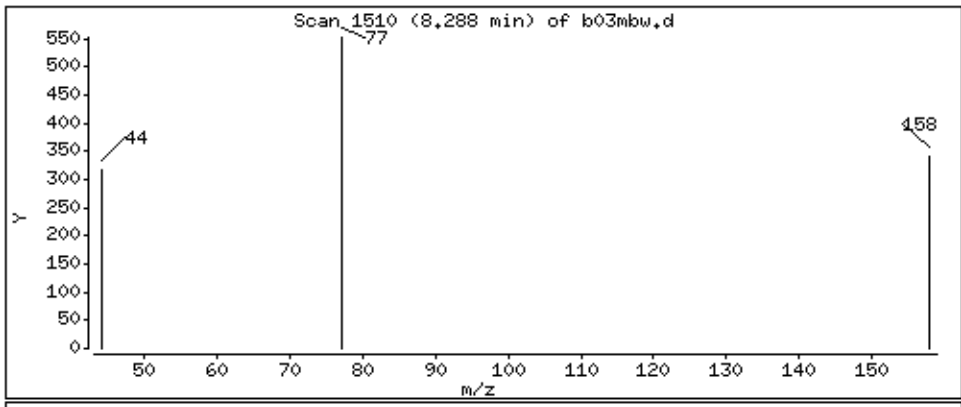
Operator: grm

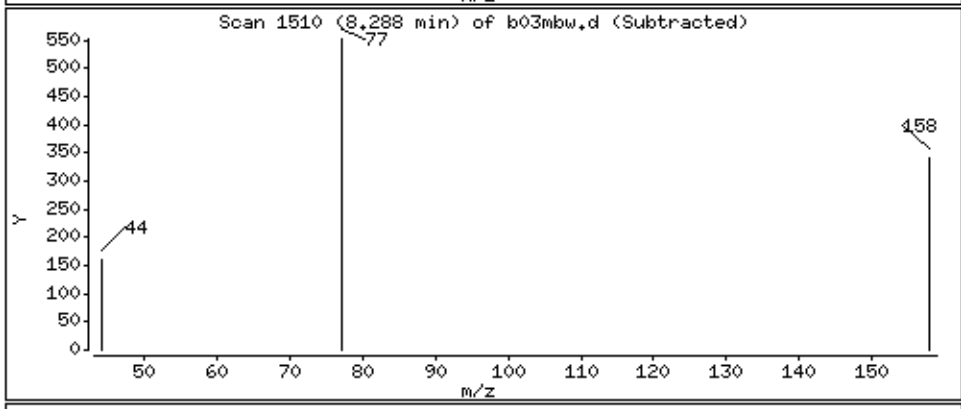
Column phase: DB-624

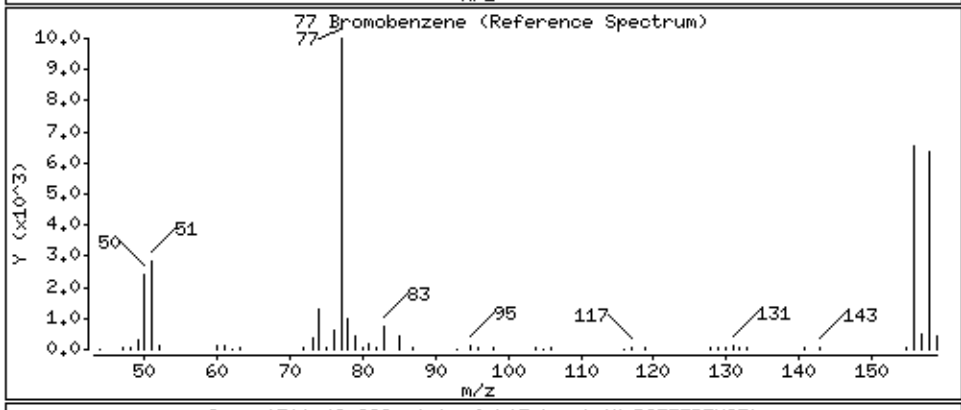
Column diameter: 0.18

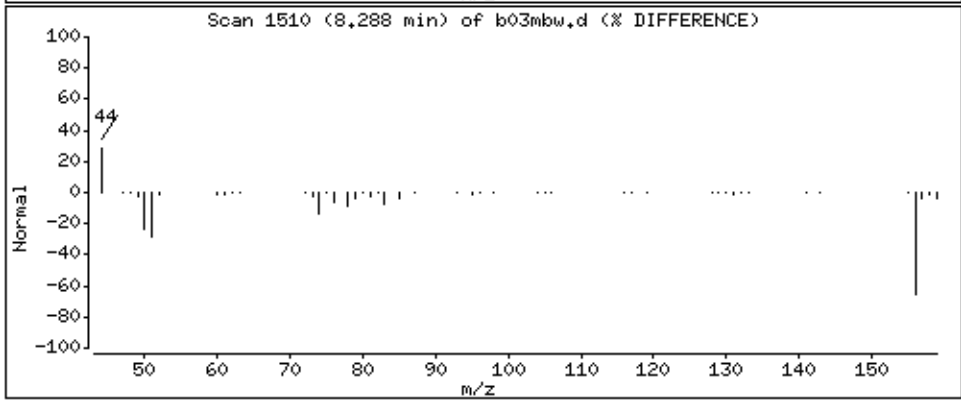
77 Bromobenzene

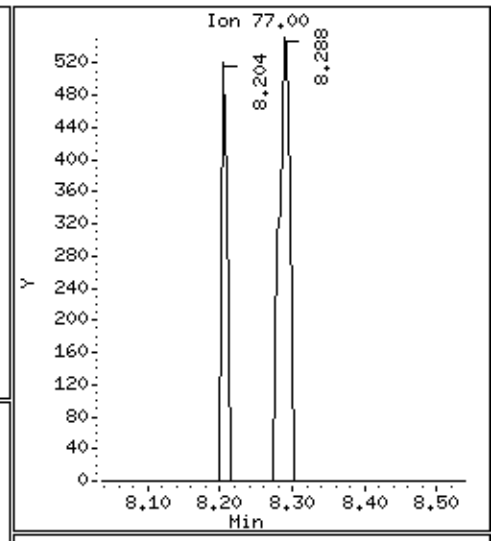
Concentration: 0.221 ppb

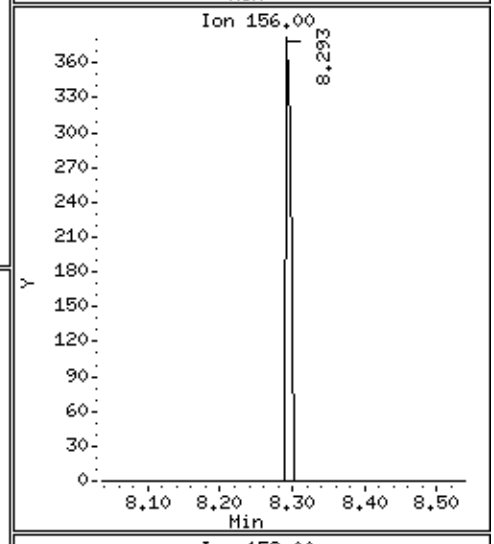


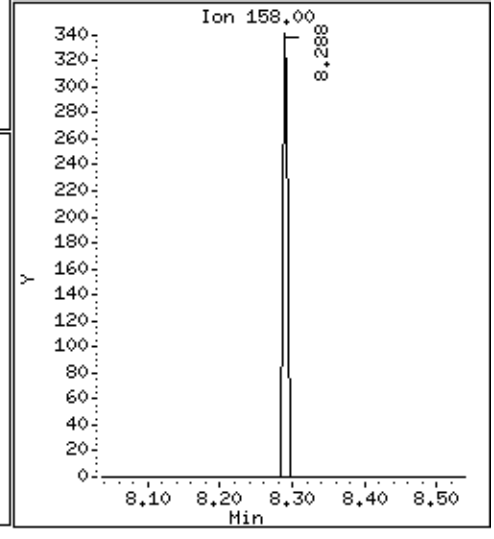












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

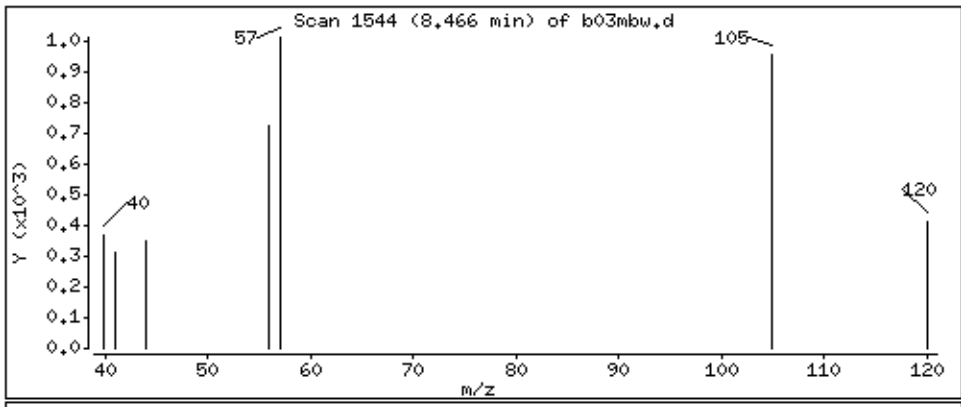
Operator: grm

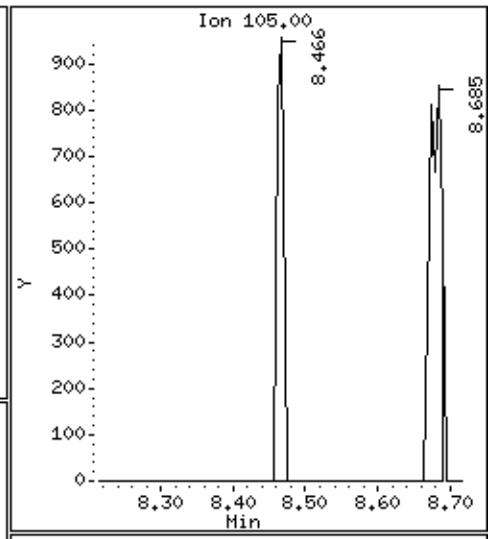
Column phase: DB-624

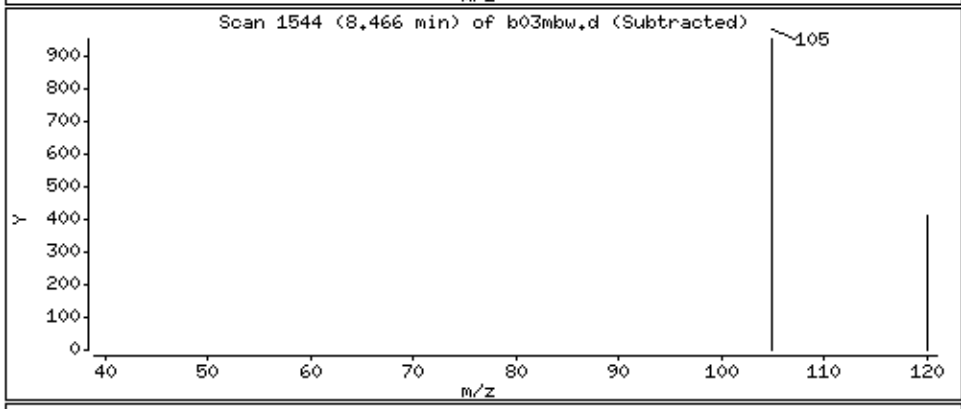
Column diameter: 0.18

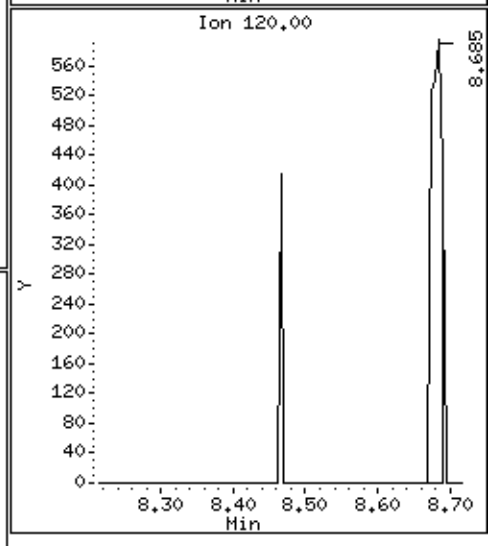
84 1,3,5-Trimethylbenzene

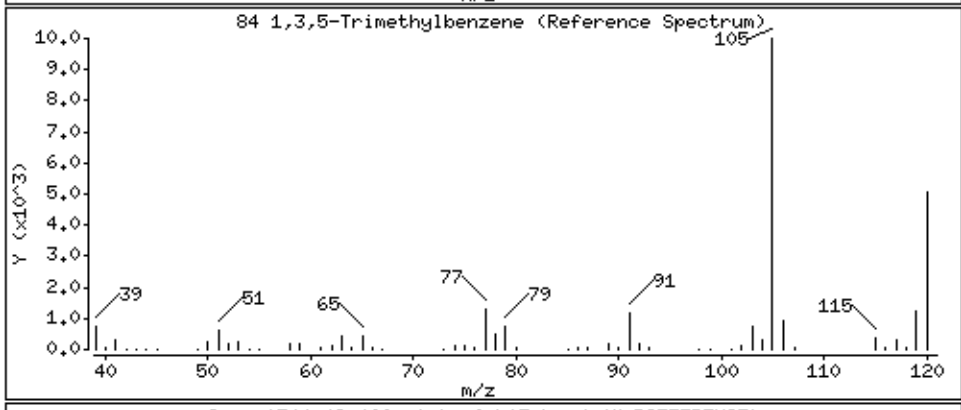
Concentration: 0.114 ppb

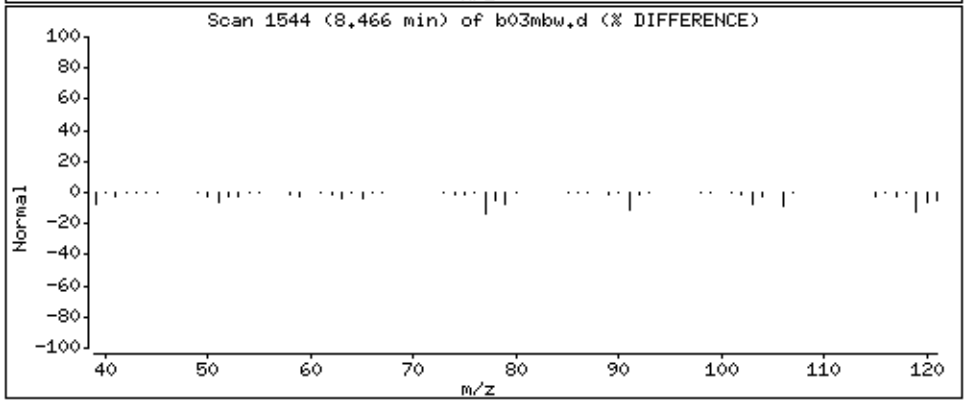












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

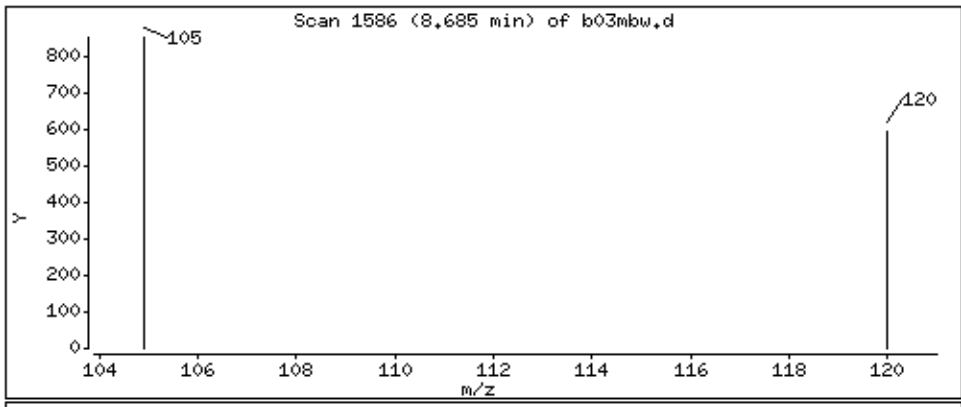
Operator: grm

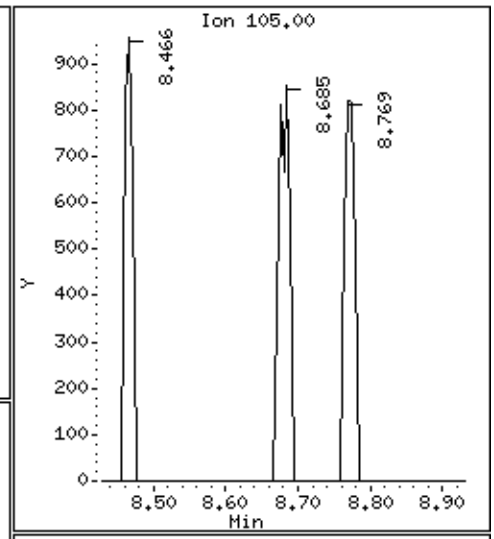
Column phase: DB-624

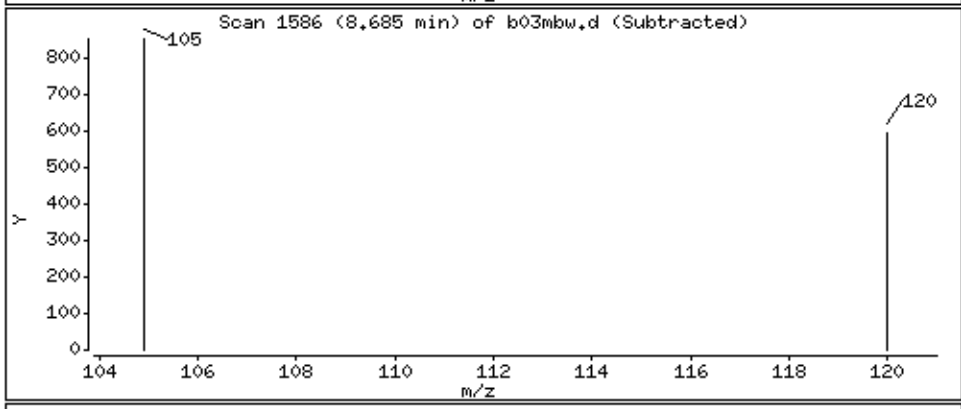
Column diameter: 0.18

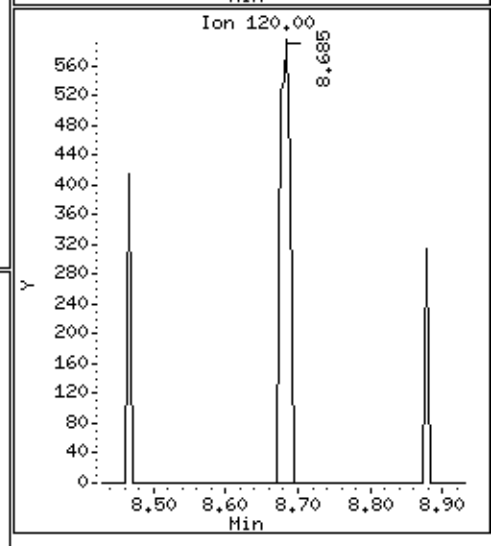
87 1,2,4-Trimethylbenzene

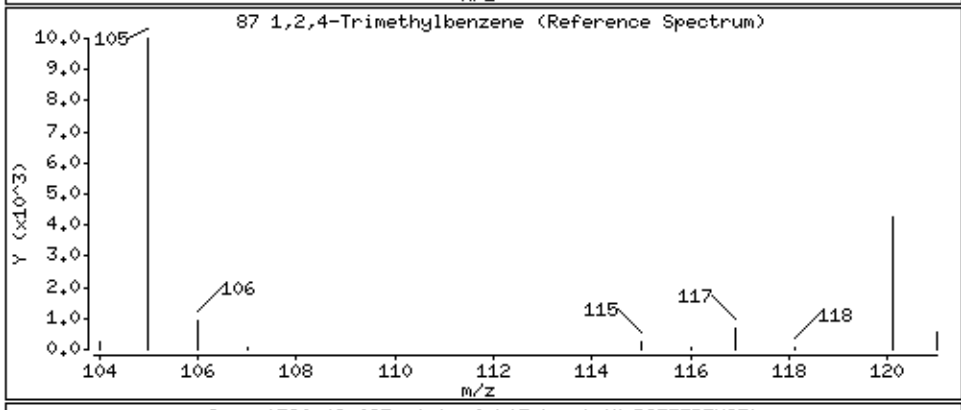
Concentration: 0.148 ppb

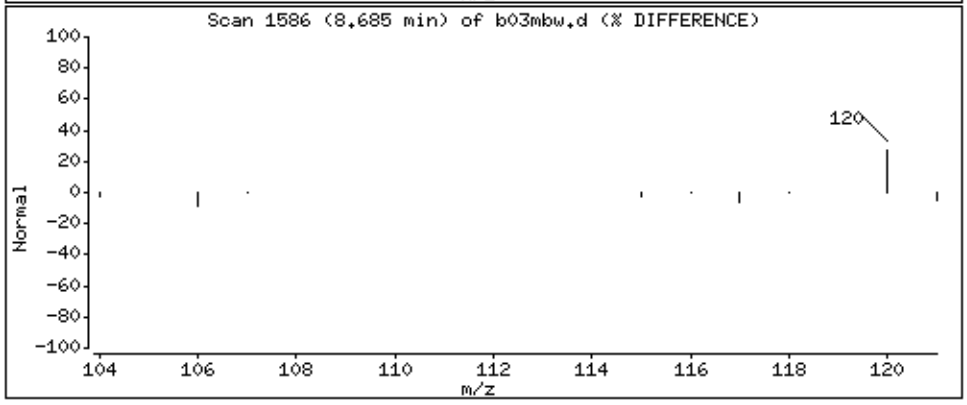












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

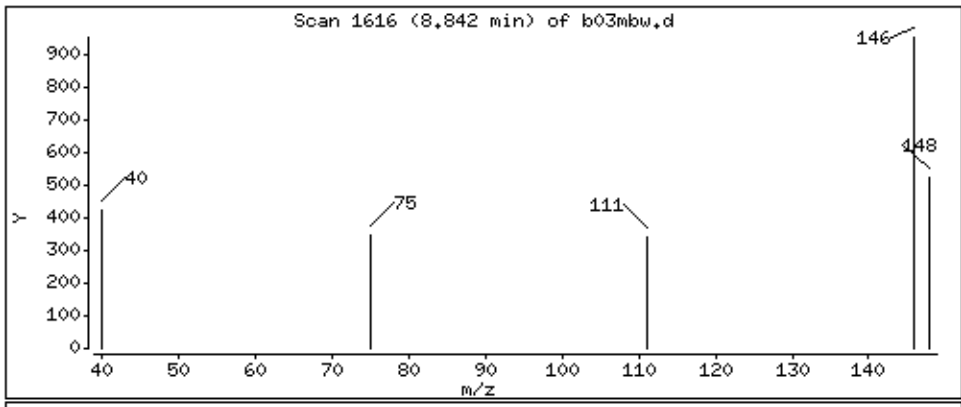
Operator: grm

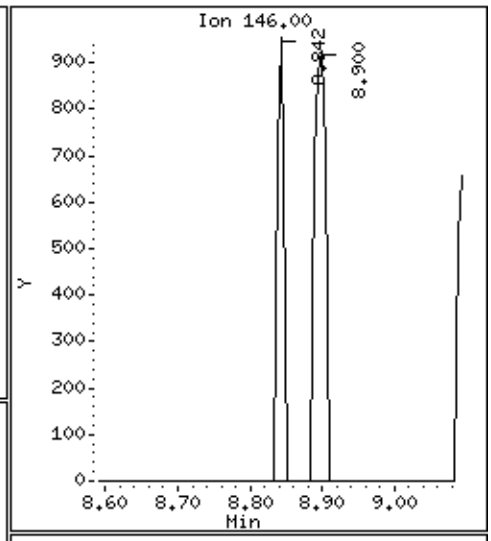
Column phase: DB-624

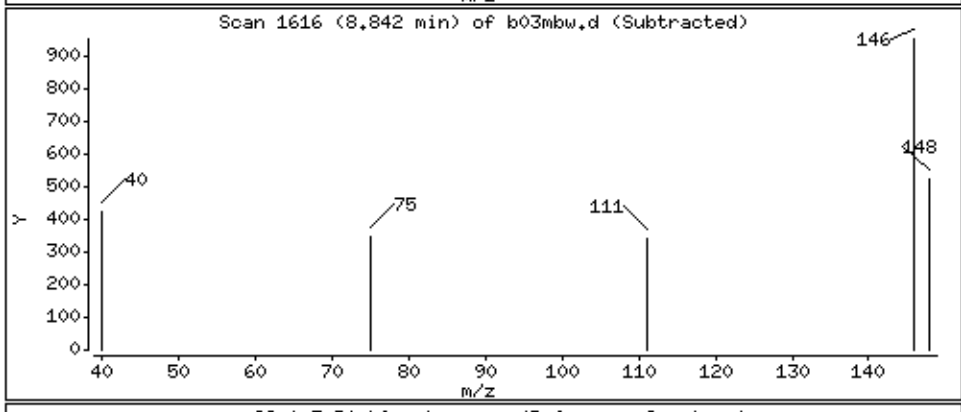
Column diameter: 0.18

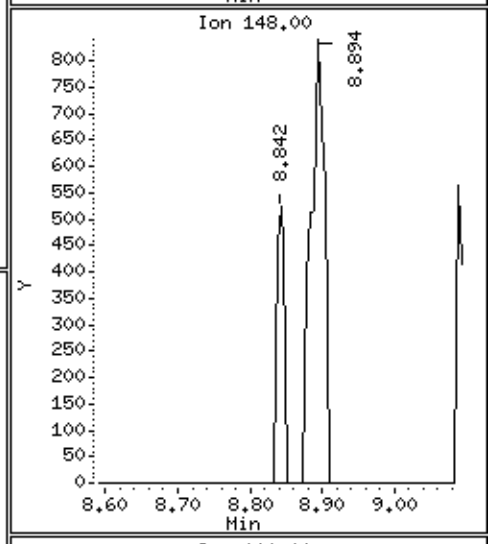
89 1,3-Dichlorobenzene

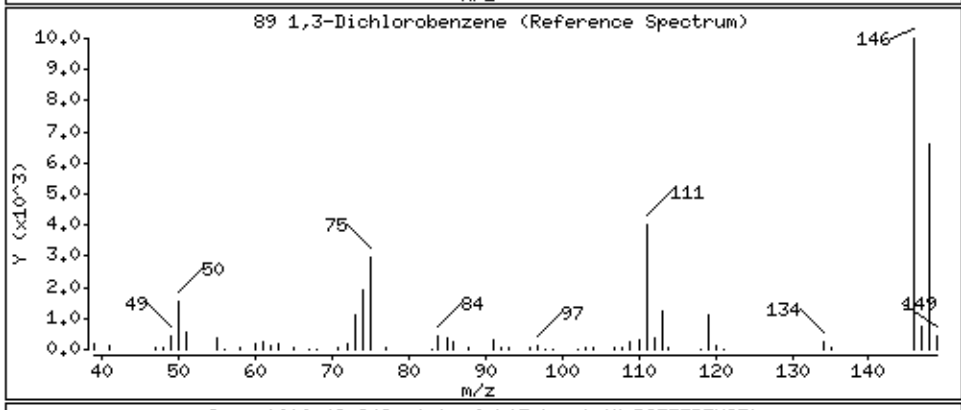
Concentration: 0.179 ppb

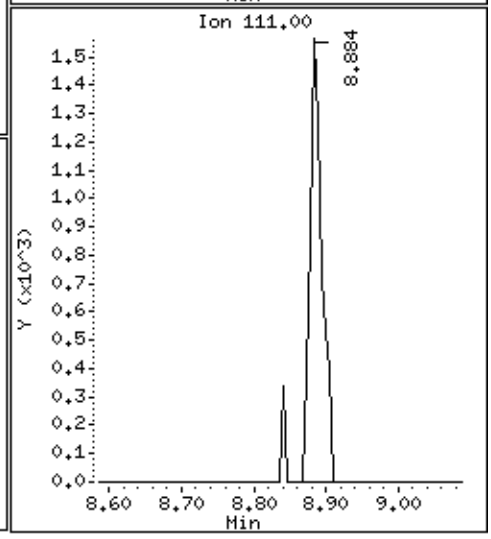


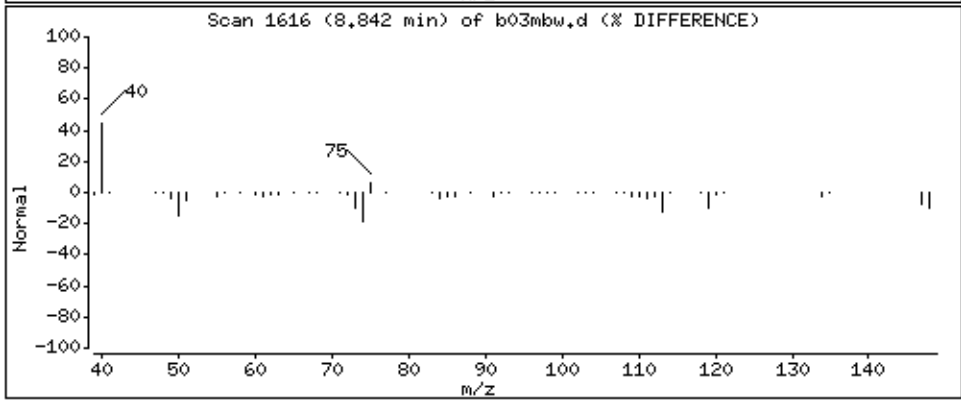












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

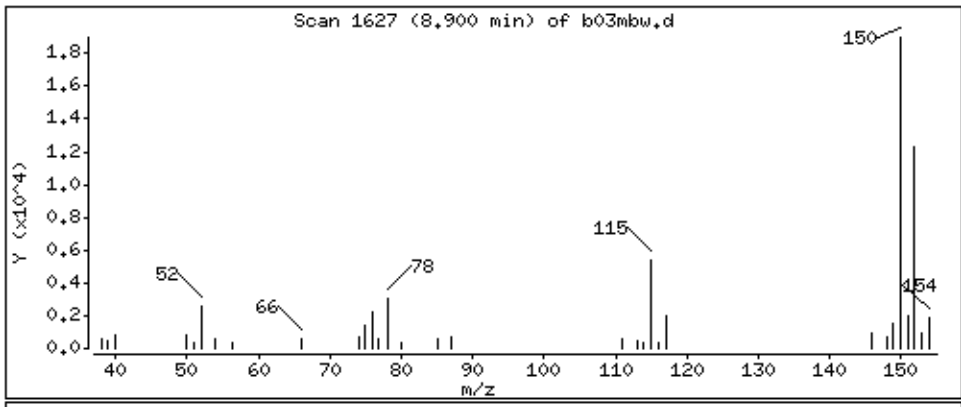
Operator: grm

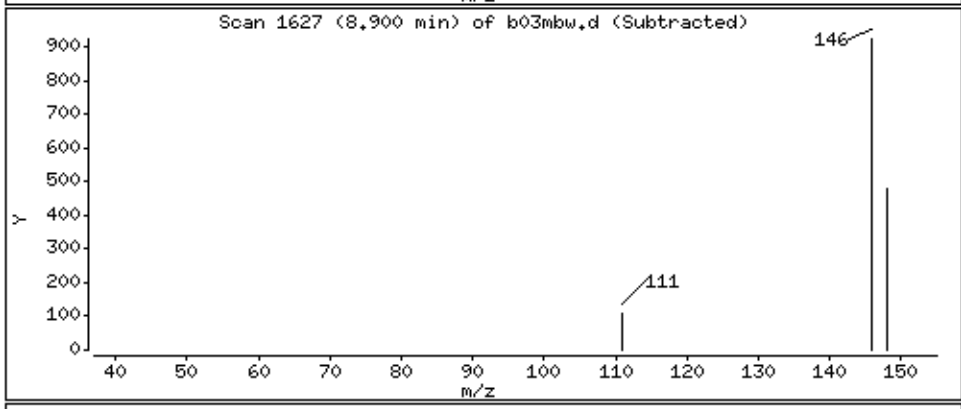
Column phase: DB-624

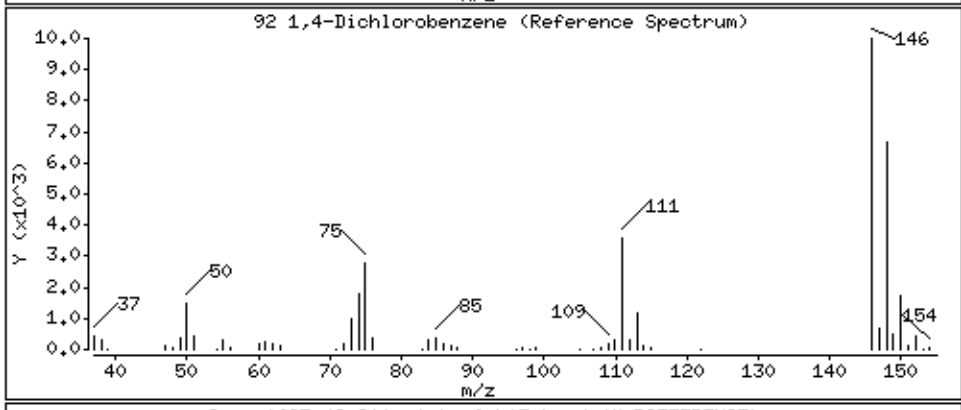
Column diameter: 0.18

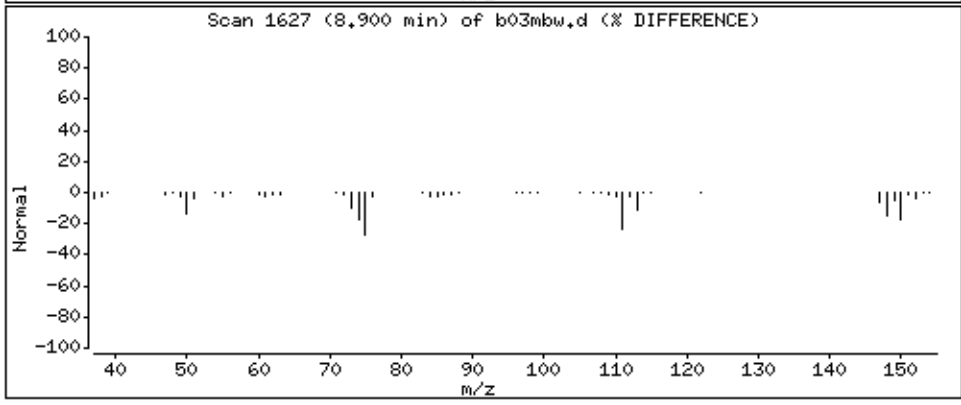
92 1,4-Dichlorobenzene

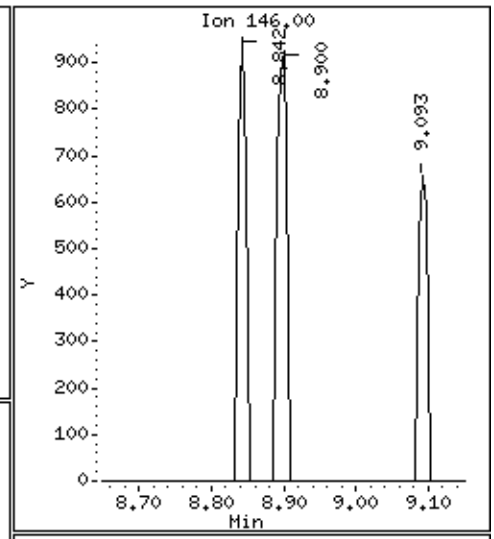
Concentration: 0.244 ppb

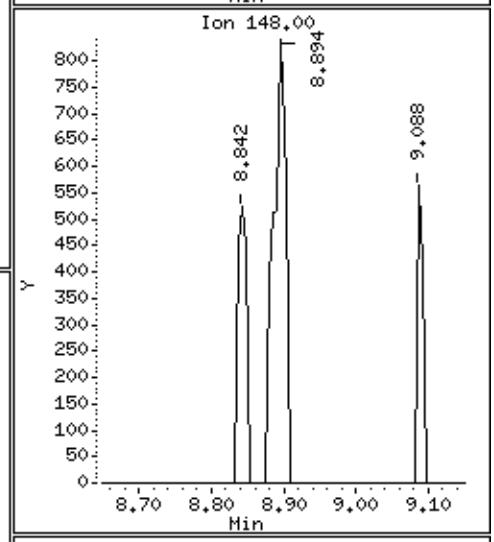


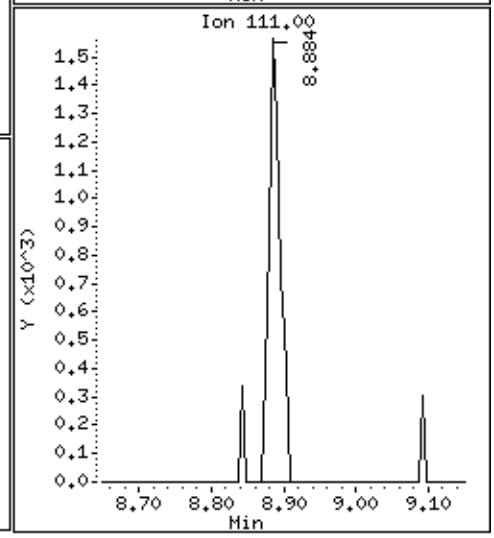












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

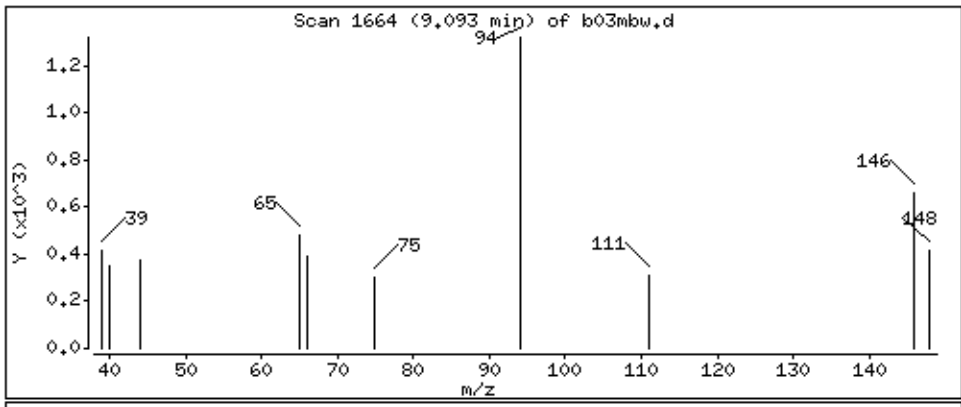
Operator: grm

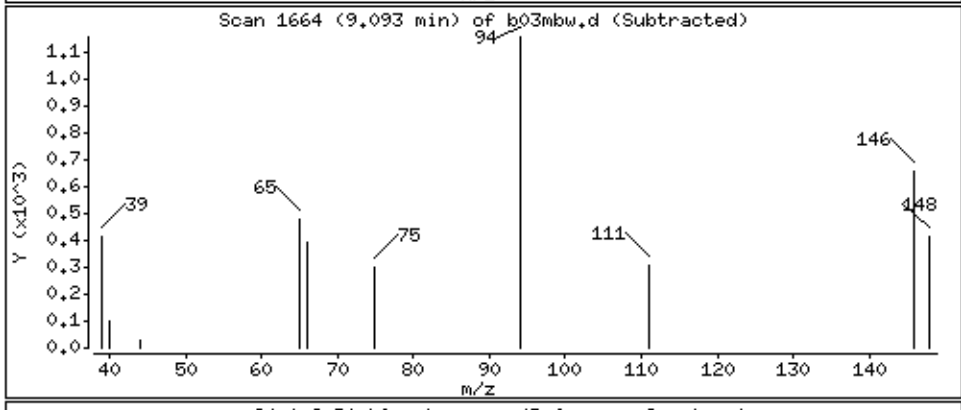
Column phase: DB-624

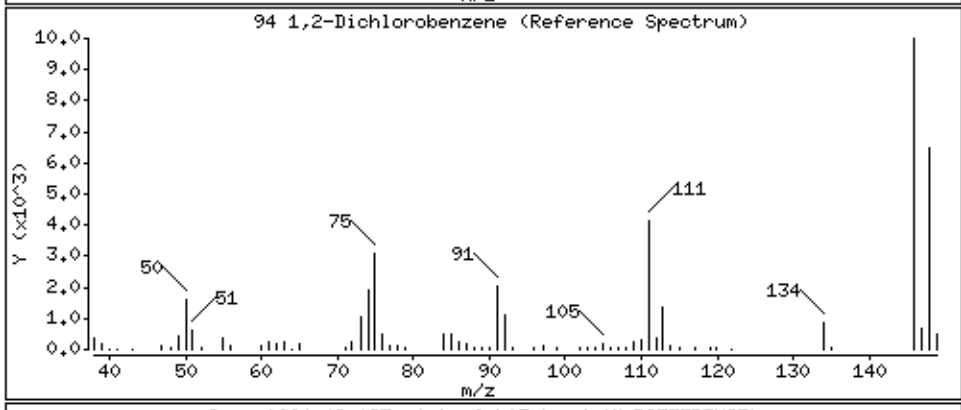
Column diameter: 0.18

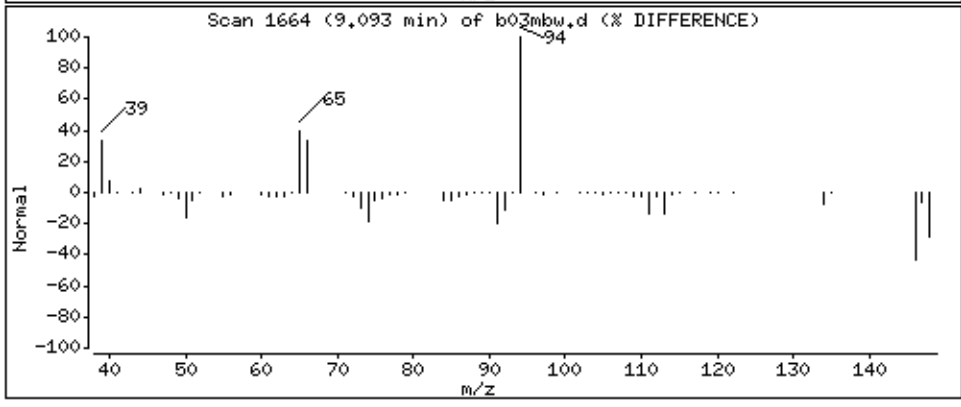
94 1,2-Dichlorobenzene

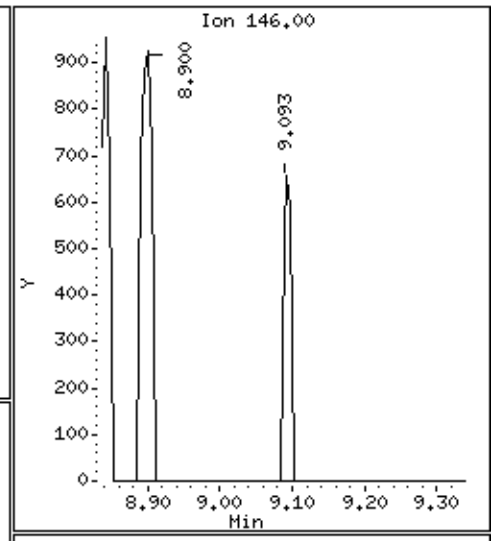
Concentration: 0.154 ppb

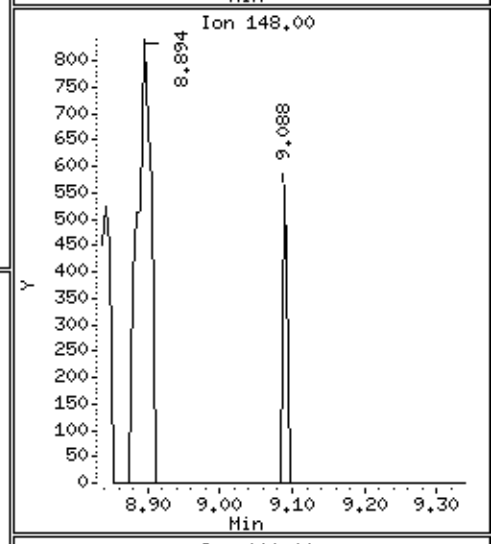


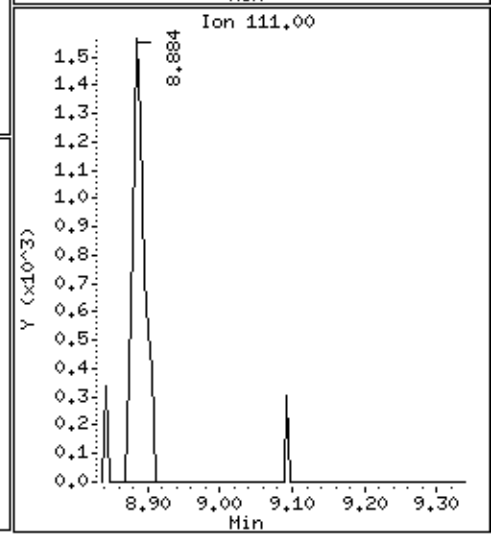












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

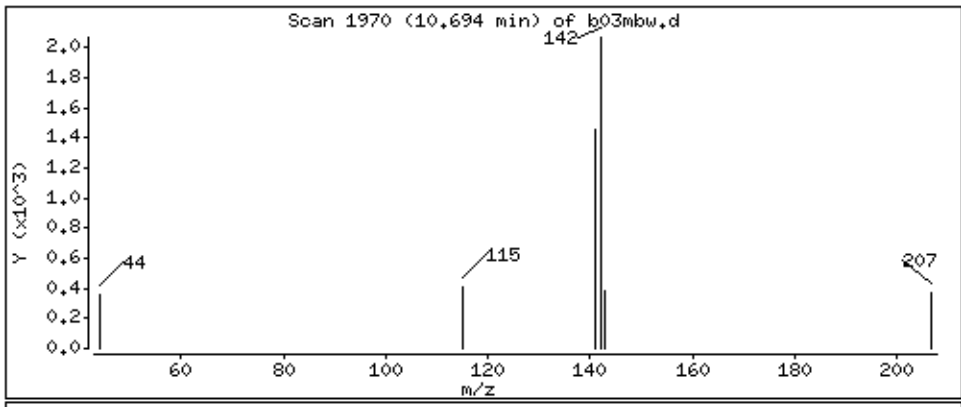
Operator: grm

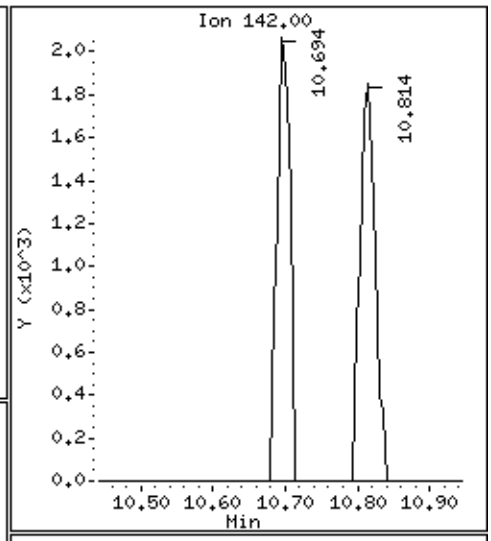
Column phase: DB-624

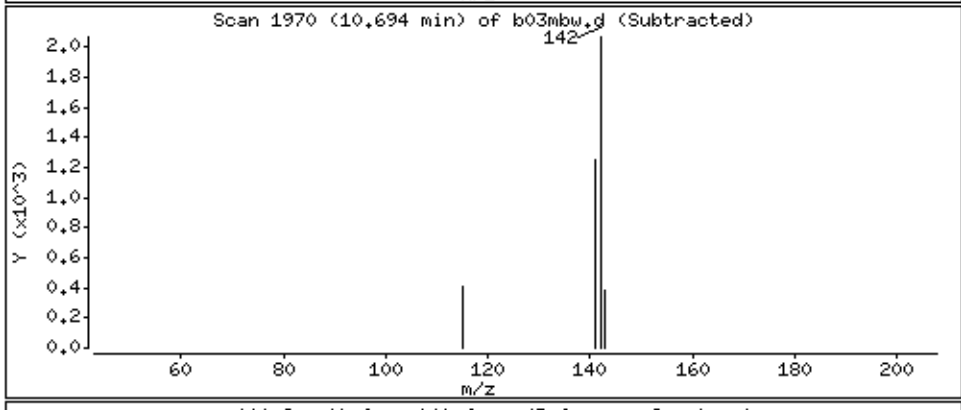
Column diameter: 0.18

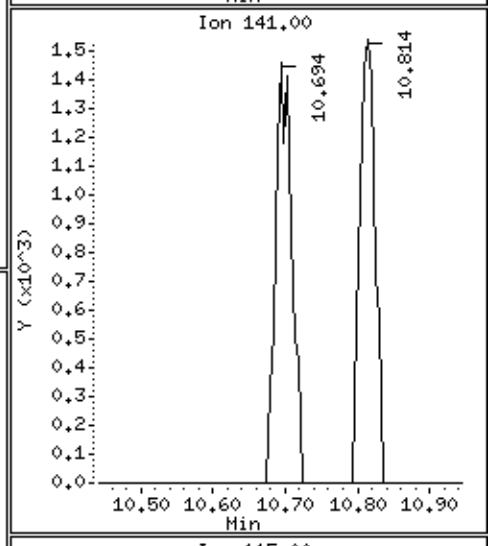
100 2,methyl-naphthalene

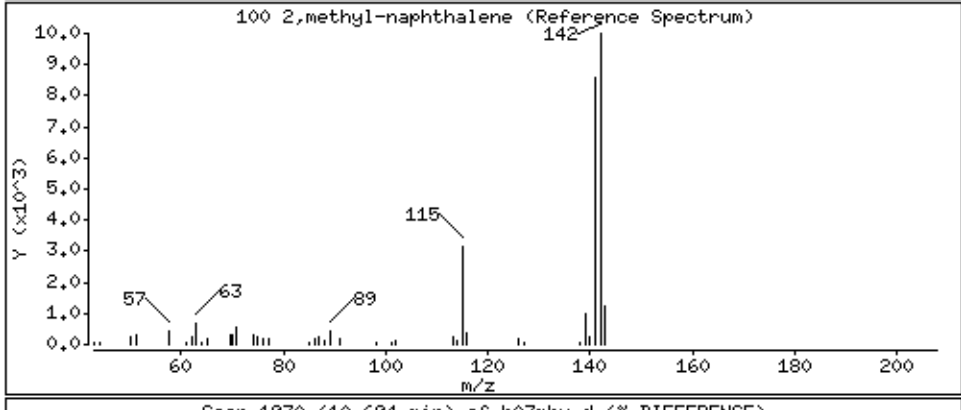
Concentration: 0.705 ppb

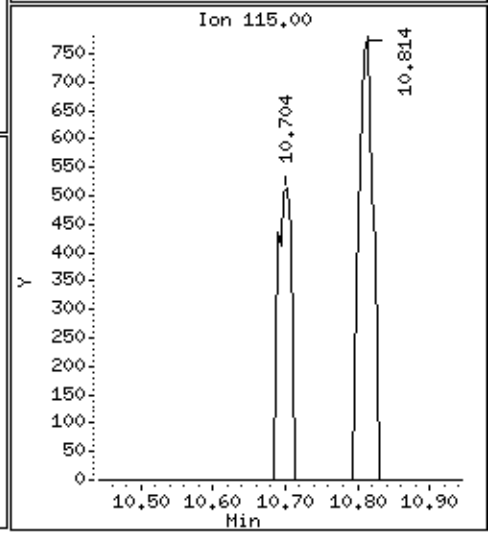


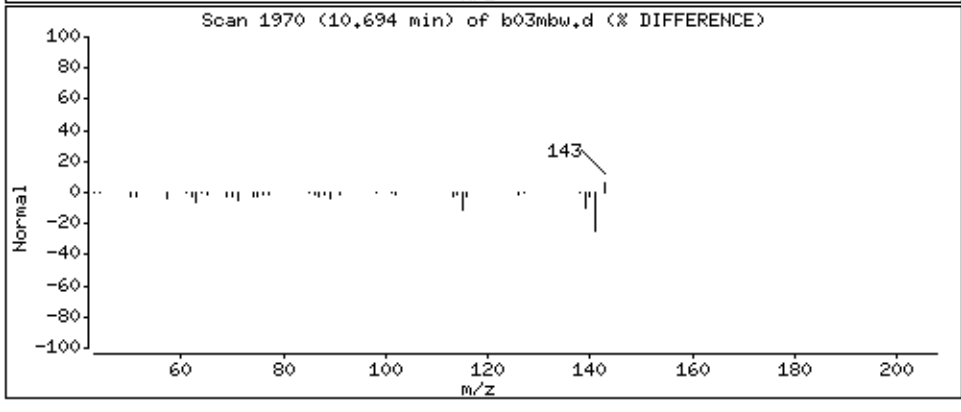












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b03mbw.d

Date : 20-MAR-2016 15:38

Client ID: MBw

Instrument: 50mv1b.i

Sample Info: MBw

Purge Volume: 5.0

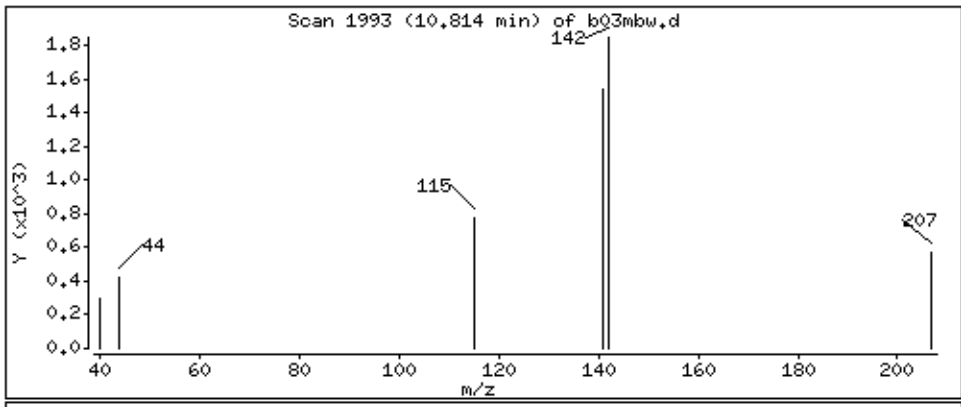
Operator: grm

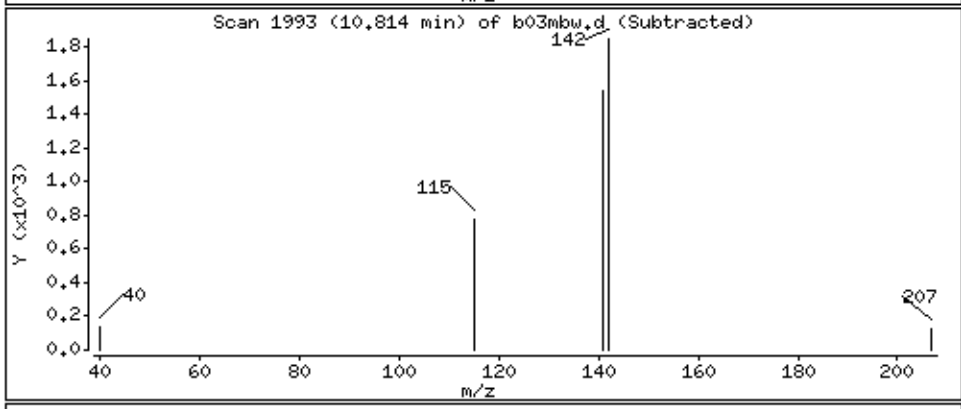
Column phase: DB-624

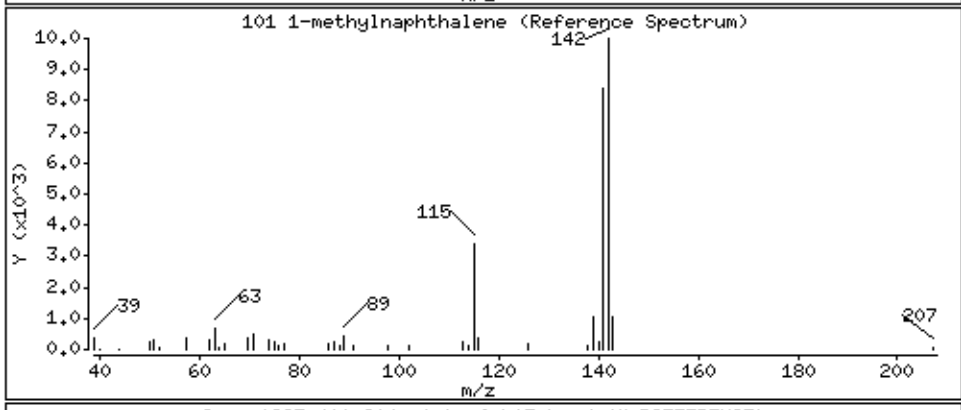
Column diameter: 0.18

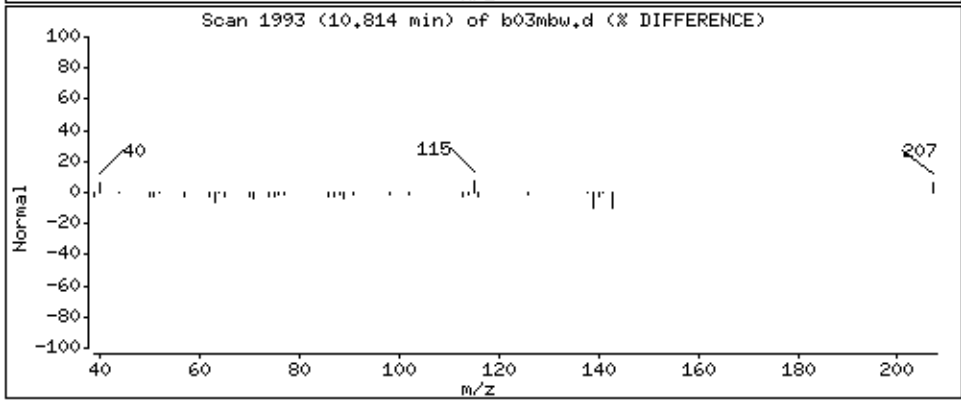
101 1-methylnaphthalene

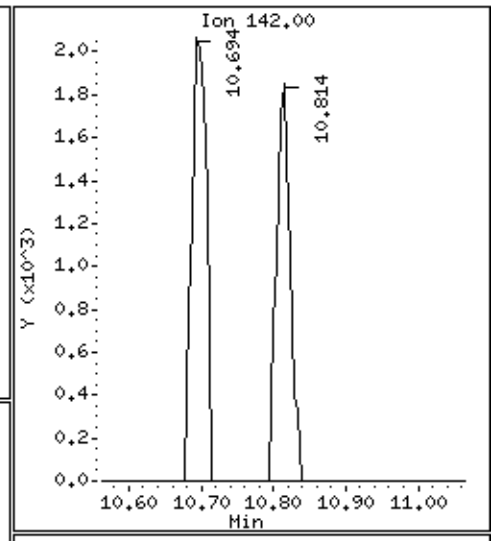
Concentration: 0.728 ppb

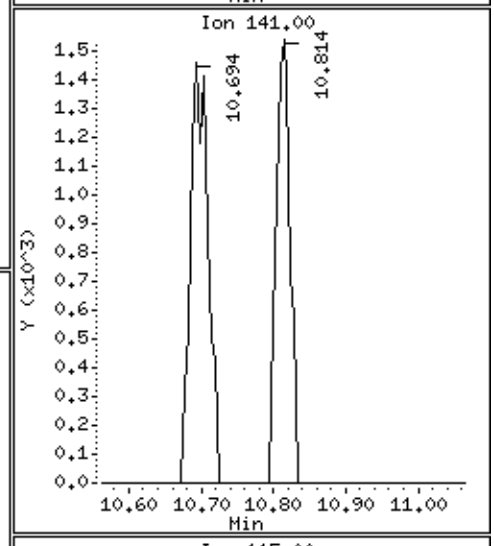


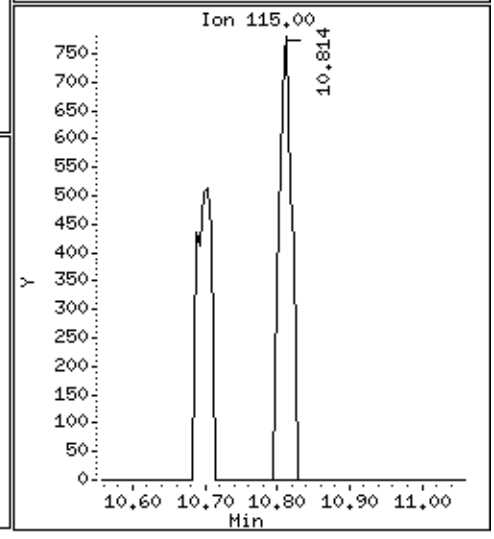












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b/b03mbw.d
Injection Date: 20-MAR-2016 15:38
Instrument: 50mv1b.i
Lab Sample ID: 1501723
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Kokomo

Date Received: Matrix: Water SDG No.: 50140212

Date Extracted: 03/20/2016 15:02 Lab Sample ID: 1501724

Date Analyzed: 03/20/2016 15:02 Lab File ID: B032016.B\B02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV1B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	53.1	
108-90-7	Chlorobenzene	51.3	
67-66-3	Chloroform	51.9	
75-35-4	1,1-Dichloroethene	55.4	
156-59-2	cis-1,2-Dichloroethene	53.1	
156-60-5	trans-1,2-Dichloroethene	53.2	
78-87-5	1,2-Dichloropropane	52.0	
100-41-4	Ethylbenzene	53.0	
98-82-8	Isopropylbenzene (Cumene)	54.0	
1634-04-4	Methyl-tert-butyl ether	50.5	
79-34-5	1,1,2,2-Tetrachloroethane	55.6	
127-18-4	Tetrachloroethene	56.8	
108-88-3	Toluene	52.2	
71-55-6	1,1,1-Trichloroethane	53.5	
79-01-6	Trichloroethene	56.1	
75-01-4	Vinyl chloride	53.3	
1330-20-7	Xylene (Total)	161	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d
Lab Smp Id: 1501724,117024:5 Client Smp ID: LCSw,117024:5
Inj Date : 20-MAR-2016 15:02
Operator : grm Inst ID: 50mv1b.i
Smp Info : 1501724,117024:5
Misc Info : 88107
Comment :
Method : \\192.168.50.6\chem\50mv1b.i\b032016.b\b8260_a_c.m
Meth Date : 21-Mar-2016 11:26 50mv1b.i Quant Type: ISTD
Cal Date : 15-MAR-2016 22:06 Cal File: b08cal.d
Als bottle: 53 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

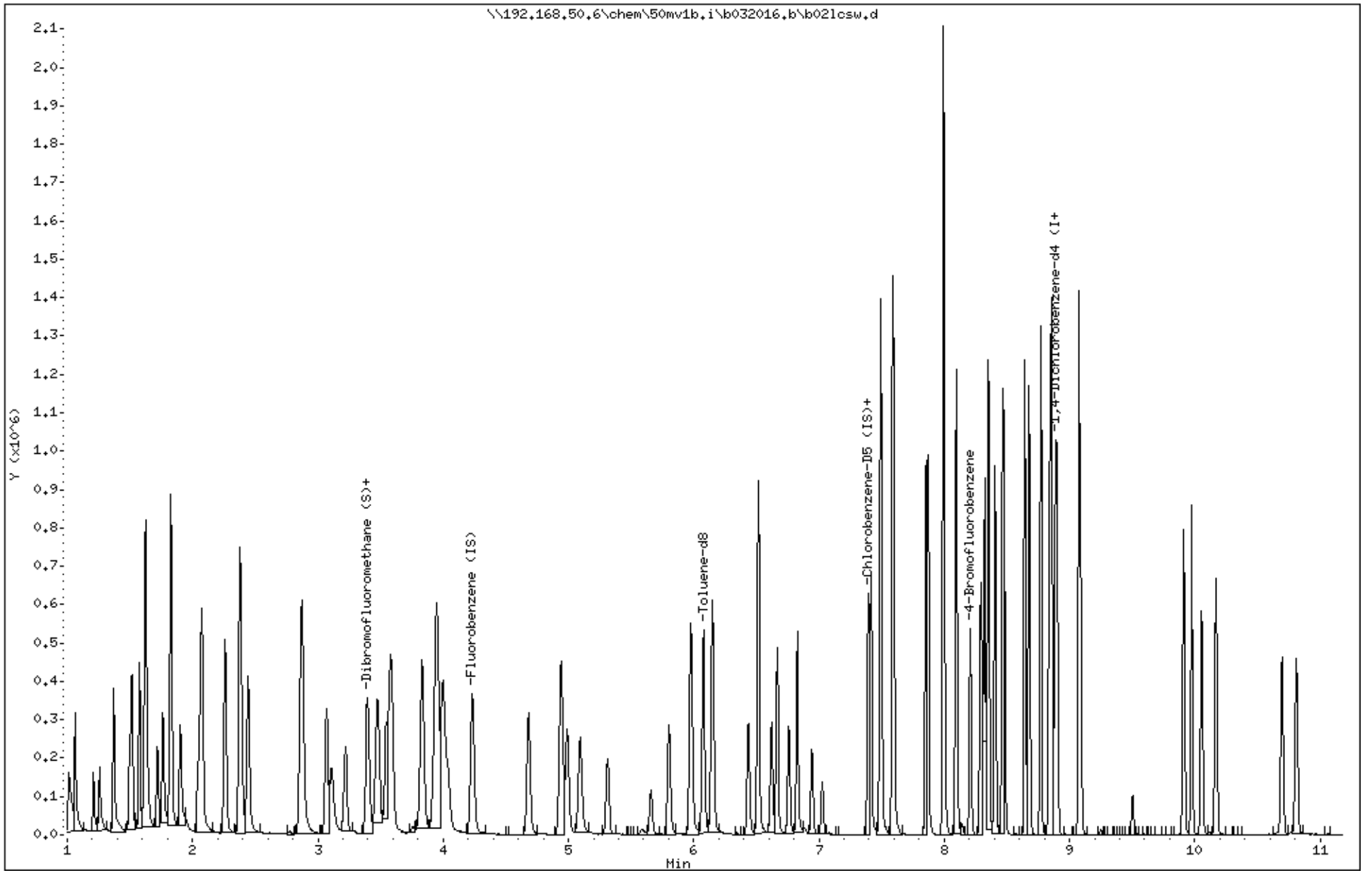
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.062	1.059	(0.251)	171749	53.3128	53.3	
	11 1,1-Dichloroethene	96	1.627	1.624	(0.385)	90145	55.4466	55.4	
	21 Methyl-tert-butyl ether	73	2.066	2.064	(0.488)	225667	50.5359	50.5	
	22 1,2-Dichloroethene (trans)	96	2.076	2.079	(0.491)	98556	53.1565	53.2	
	29 1,2-Dichloroethene (cis)	96	2.871	2.869	(0.679)	102529	53.1047	53.1	
	35 Chloroform	83	3.222	3.219	(0.761)	179396	51.9379	51.9	
	37 1,1,1-Trichloroethane	97	3.394	3.392	(0.802)	166832	53.5325	53.5	
$	38 Dibromofluoromethane (S)	113	3.400	3.397	(0.803)	88473	48.5079	48.5	
	42 Benzene	78	3.834	3.837	(0.906)	378632	53.0525	53.0	
*	46 Fluorobenzene (IS)	96	4.231	4.234	(1.000)	351230	50.0000		
	47 Trichloroethene	95	4.681	4.679	(1.106)	105298	56.0943	56.1	
	49 1,2-Dichloropropane	63	4.990	4.987	(1.179)	96092	51.9721	52.0	
$	57 Toluene-d8	98	6.077	6.075	(0.822)	318932	50.9554	51.0	
	58 Toluene	91	6.151	6.148	(0.832)	400807	52.2094	52.2	
	62 Tetrachloroethene	166	6.668	6.666	(0.902)	118733	56.8261	56.8	
*	67 Chlorobenzene-D5 (IS)	117	7.390	7.393	(1.000)	241053	50.0000		
	68 Chlorobenzene	112	7.416	7.414	(1.004)	253336	51.2564	51.2	
	70 Ethylbenzene	106	7.495	7.492	(1.014)	143830	53.0255	53.0	
	71 m&p-Xylene	106	7.594	7.592	(1.028)	364538	107.355	107	
	72 o-Xylene	106	7.850	7.853	(1.062)	177919	53.5274	53.5	
	75 Isopropylbenzene	105	8.096	8.094	(1.096)	505702	53.9900	54.0	
$	76 4-Bromofluorobenzene	95	8.206	8.209	(1.110)	114308	52.2376	52.2	
	79 1,1,2,2-Tetrachloroethane	83	8.300	8.303	(0.934)	88112	55.5832	55.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)	REVIEW C
87 1,2,4-Trimethylbenzene	105	8.677	8.680	(0.976)	399210	52.3763	52.4	
* 91 1,4-Dichlorobenzene-d4 (IS)	152	8.886	8.884	(1.000)	131974	50.0000		
98 Naphthalene	128	10.052	10.055	(1.131)	347954	51.5868	51.6	

Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d
Date : 20-MAR-2016 15:02
Client ID: LCSw,117024:5
Instrument: 50mv1b.i
Sample Info: 1501724,117024:5
Purge Volume: 5.0
Operator: grm
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

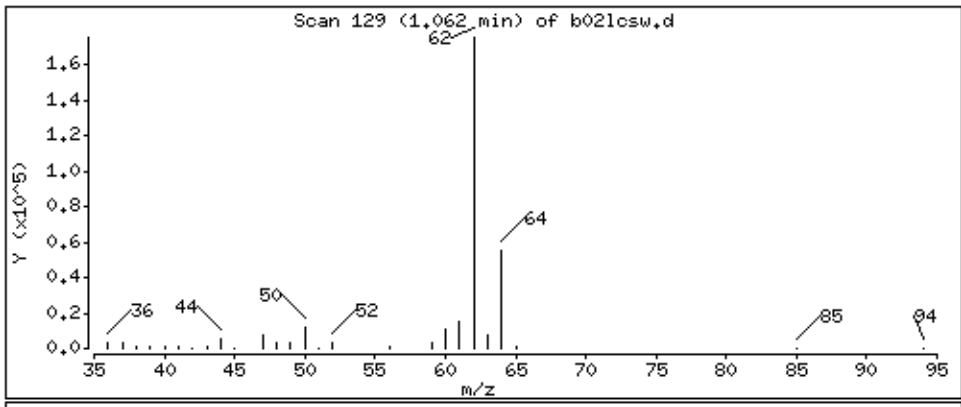
Operator: grm

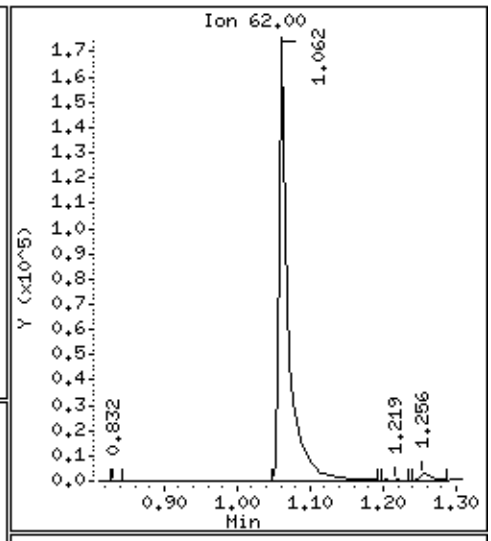
Column phase: DB-624

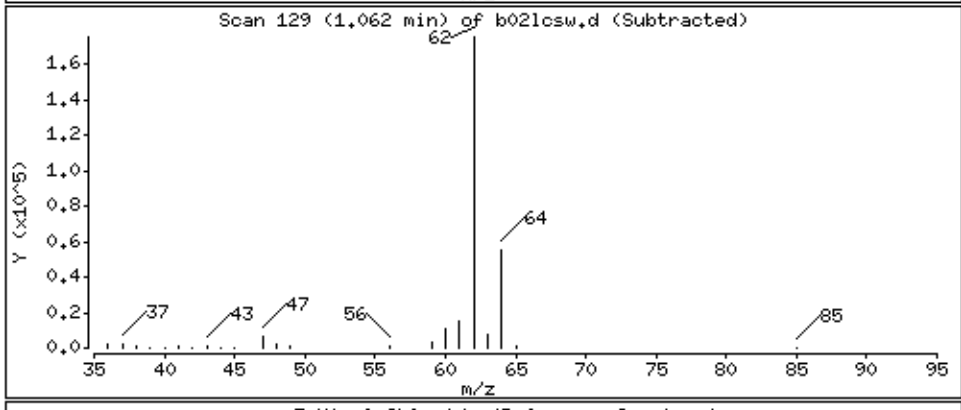
Column diameter: 0.18

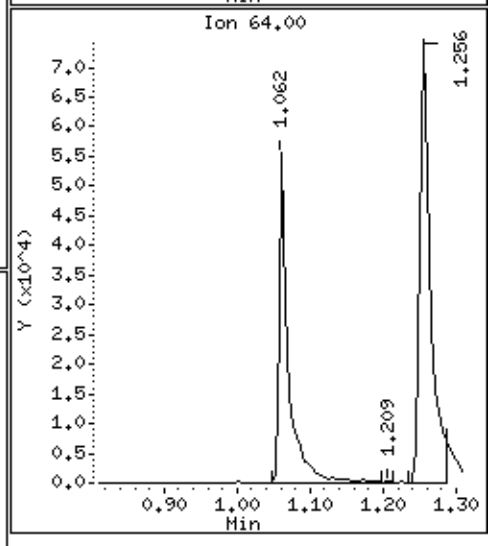
3 Vinyl Chloride

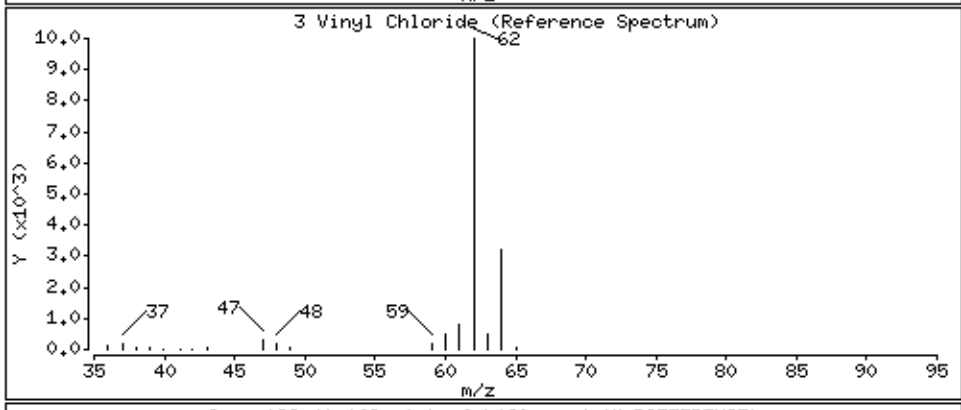
Concentration: 53.3 ppb

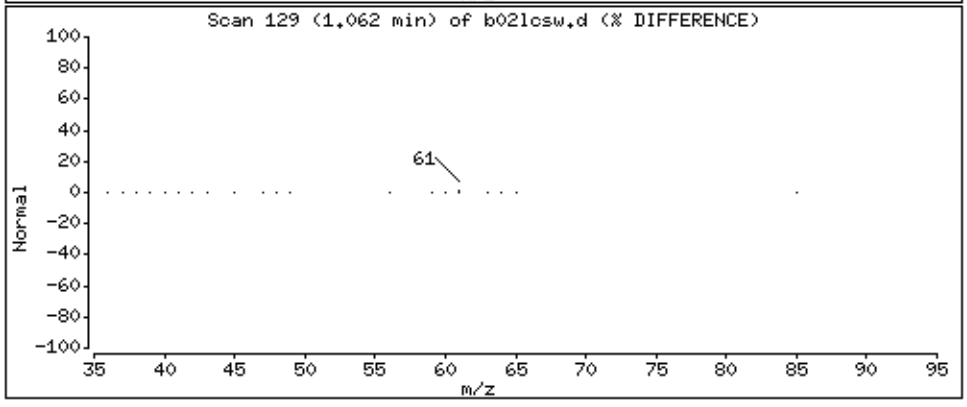












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

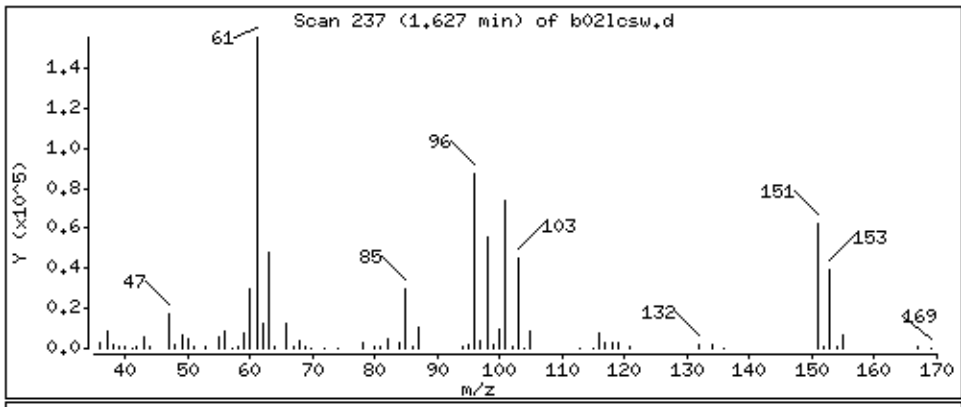
Operator: grm

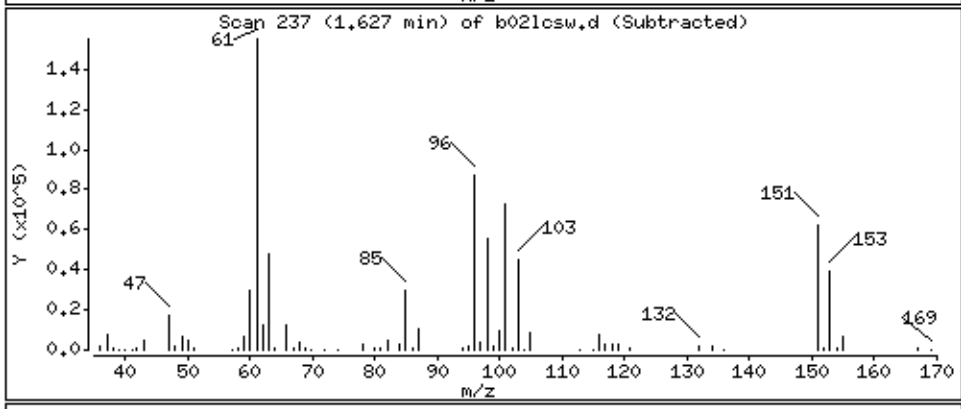
Column phase: DB-624

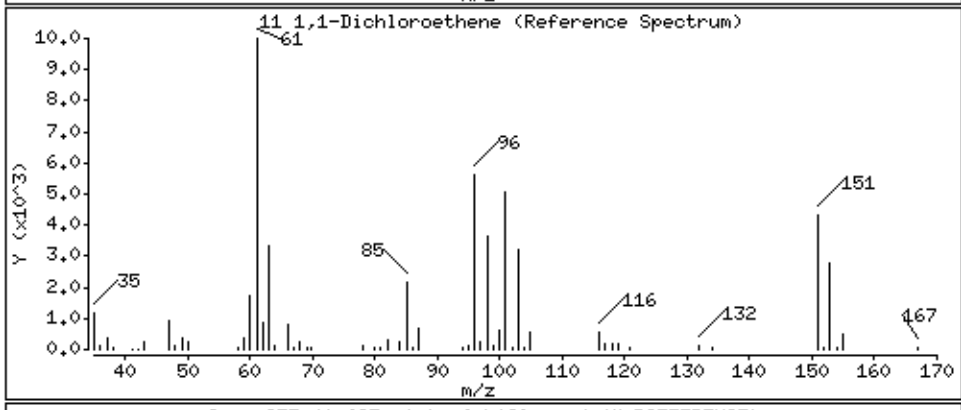
Column diameter: 0.18

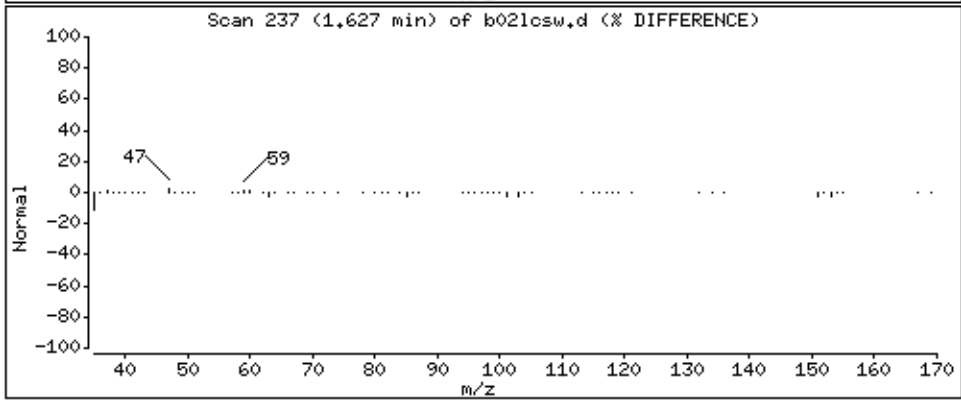
11 1,1-Dichloroethene

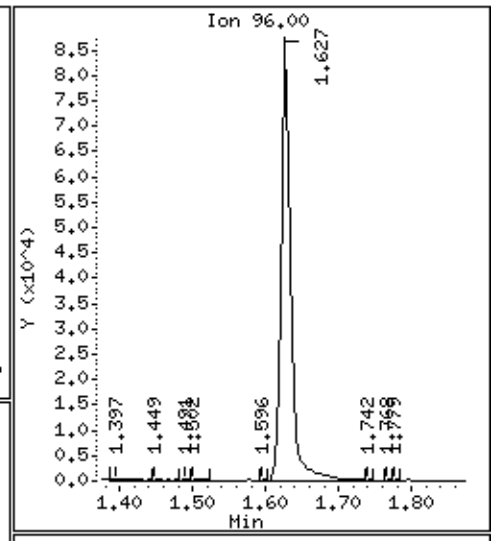
Concentration: 55.4 ppb

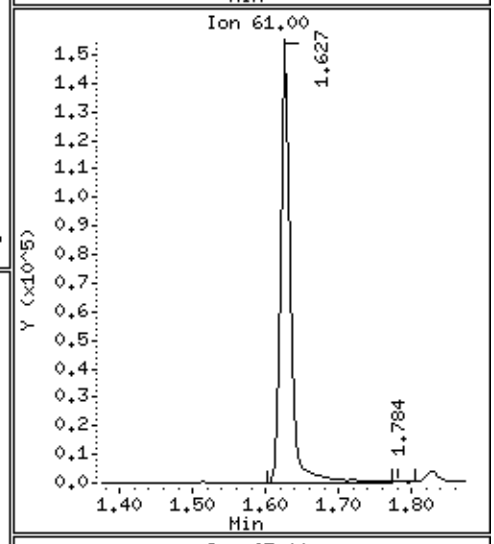


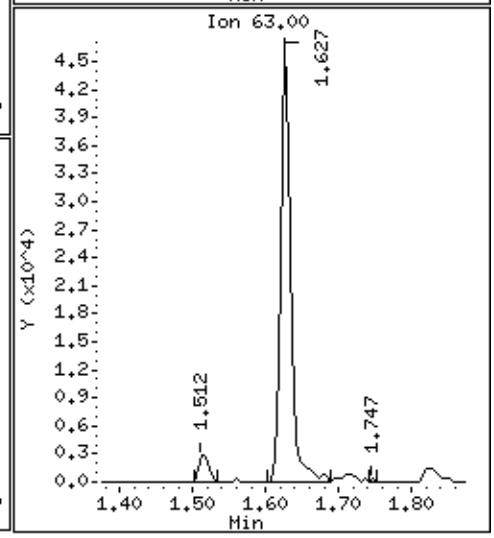












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

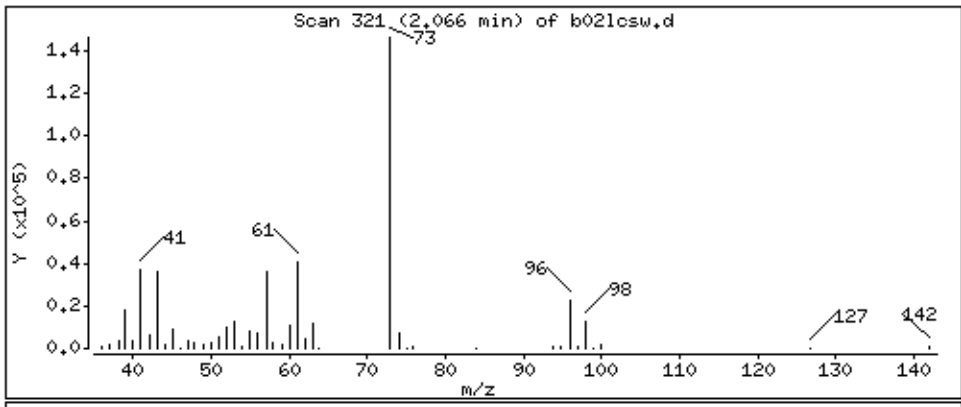
Operator: grm

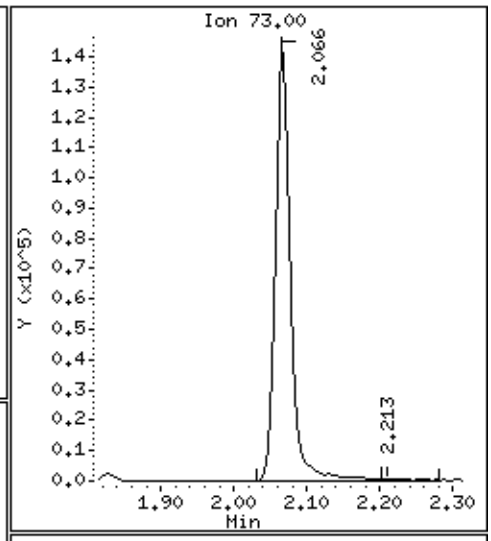
Column phase: DB-624

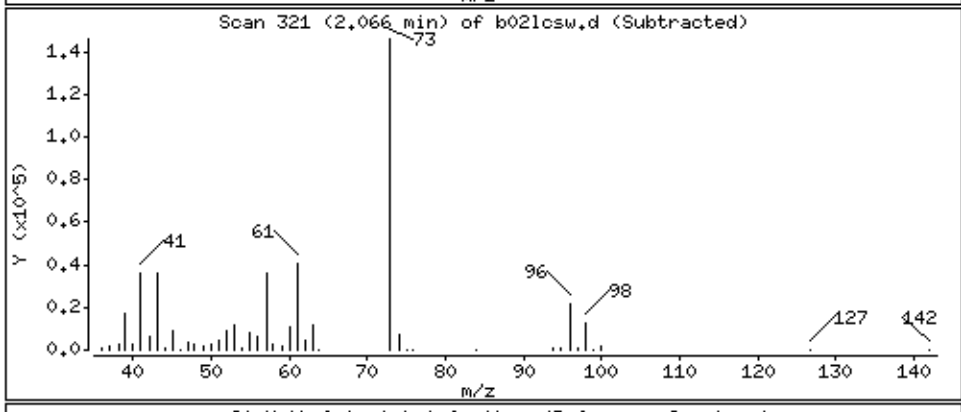
Column diameter: 0.18

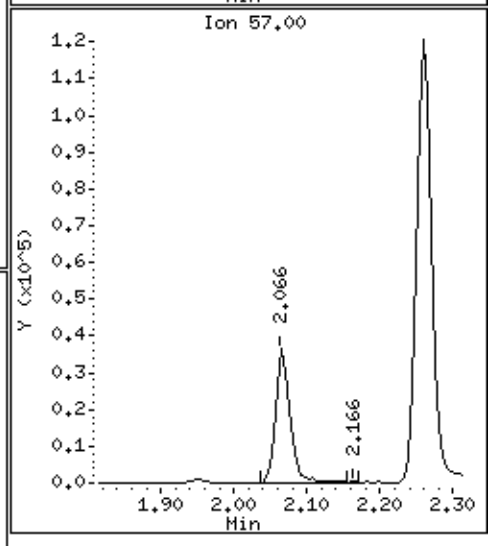
21 Methyl-tert-butyl ether

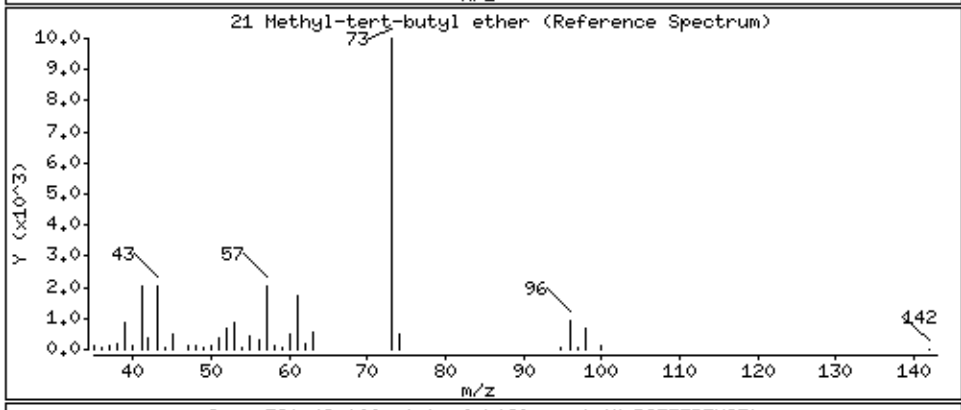
Concentration: 50.5 ppb

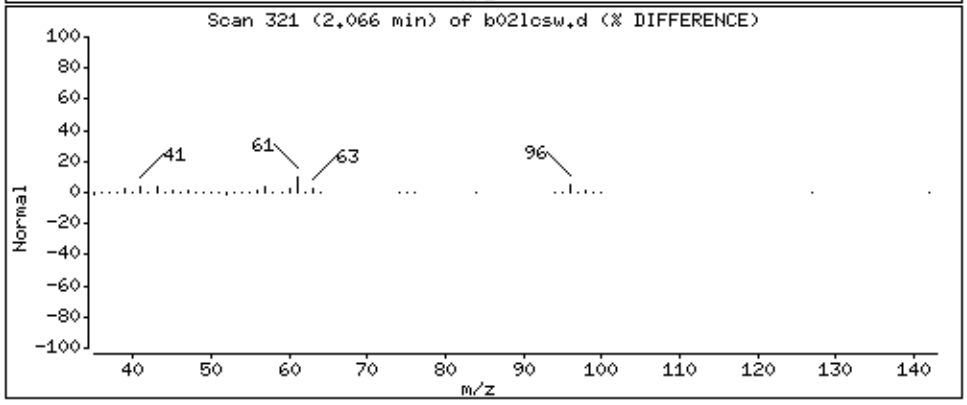












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

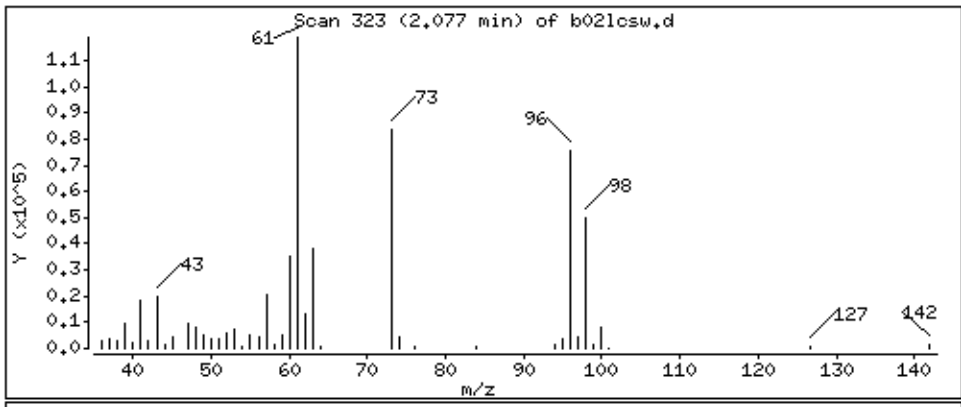
Client ID: LCSw,117024:5 Instrument: 50mv1b.i

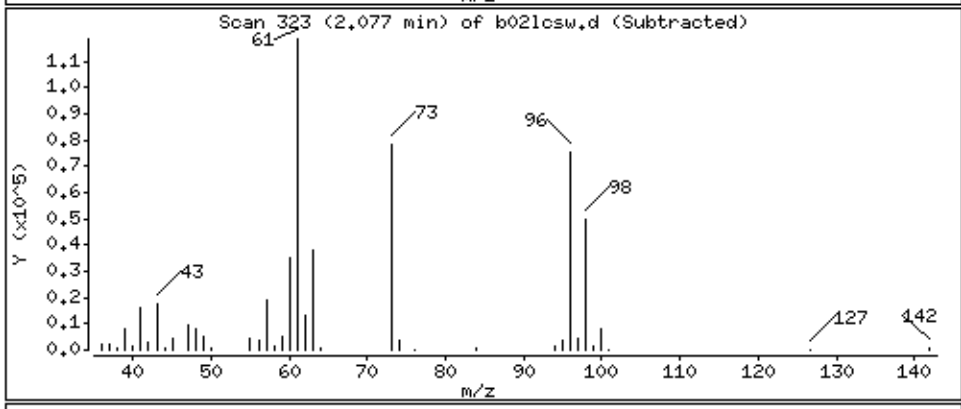
Sample Info: 1501724,117024:5

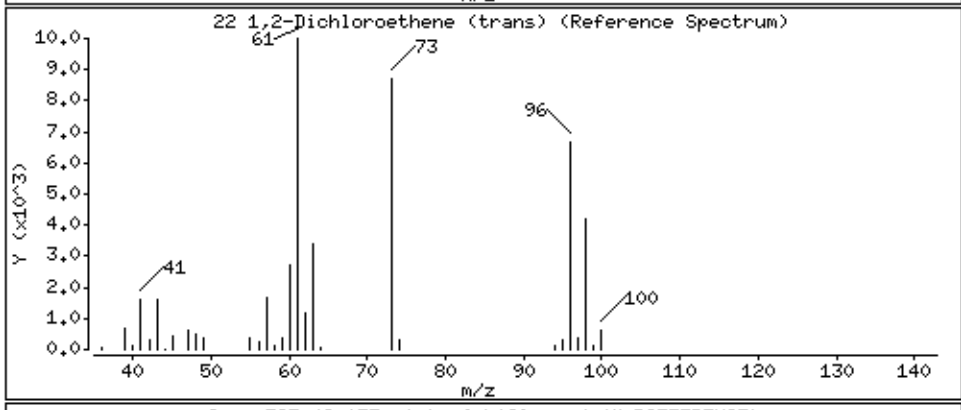
Purge Volume: 5.0 Operator: grm

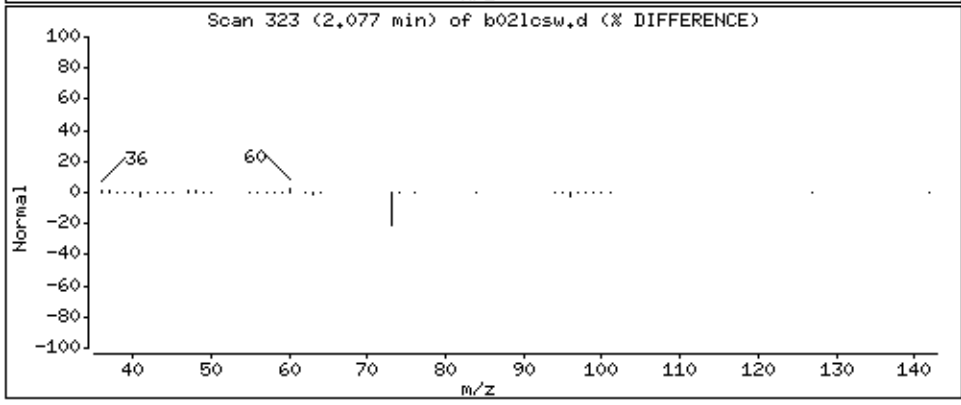
Column phase: DB-624 Column diameter: 0.18

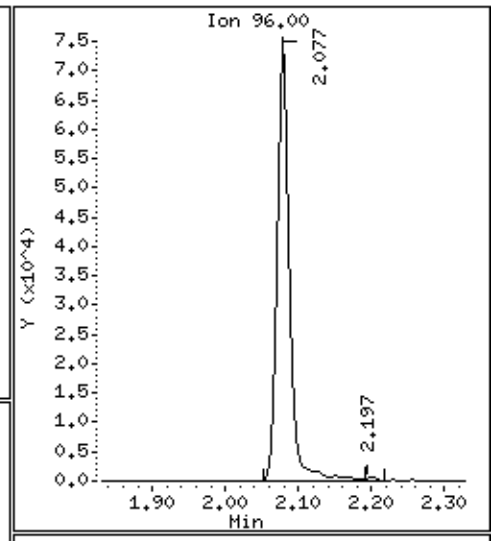
22 1,2-Dichloroethene (trans) Concentration: 53.2 ppb

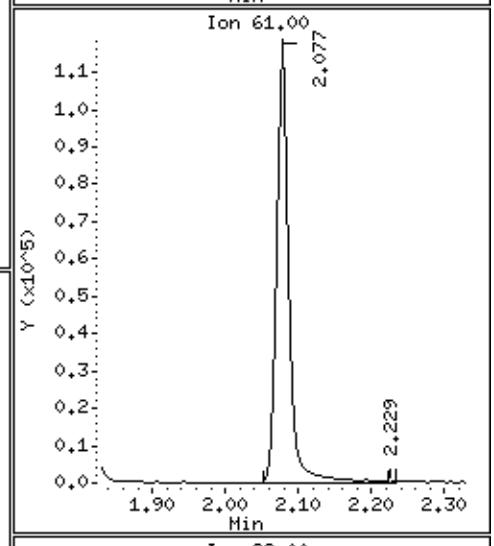


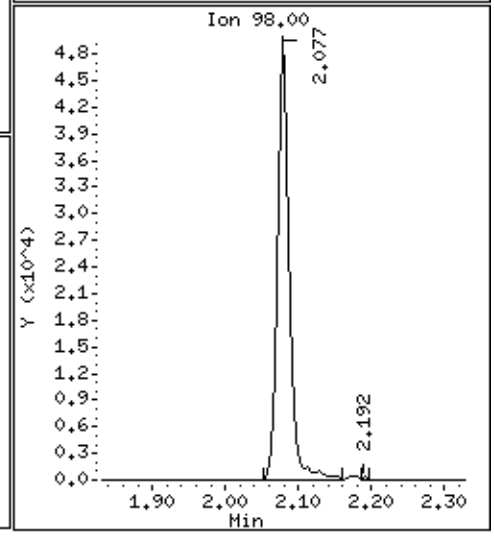












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

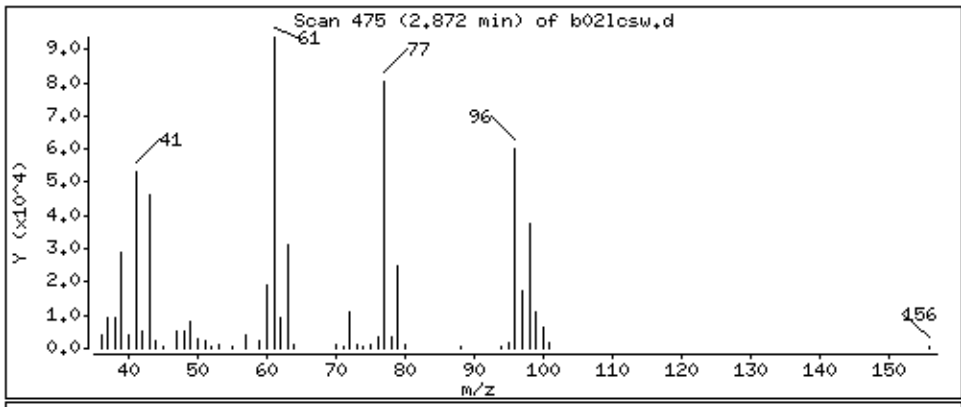
Operator: grm

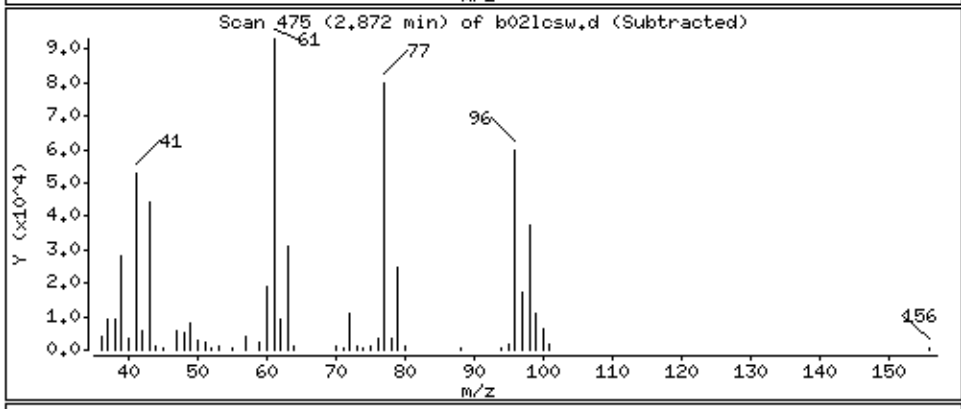
Column phase: DB-624

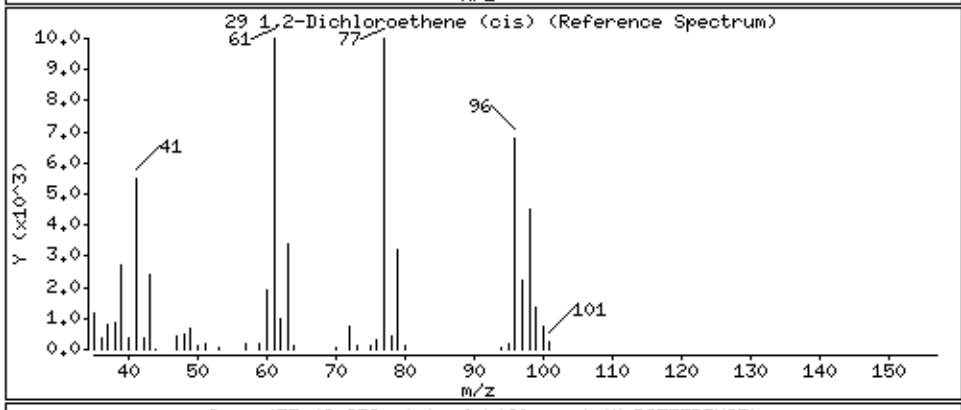
Column diameter: 0.18

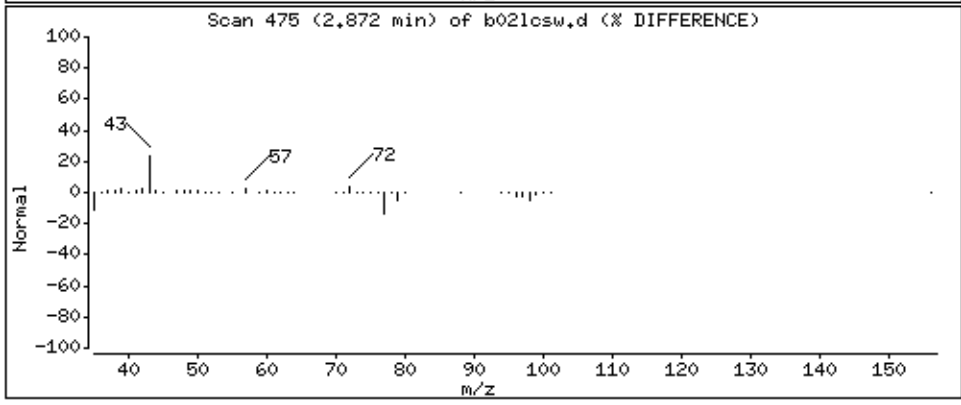
29 1,2-Dichloroethene (cis)

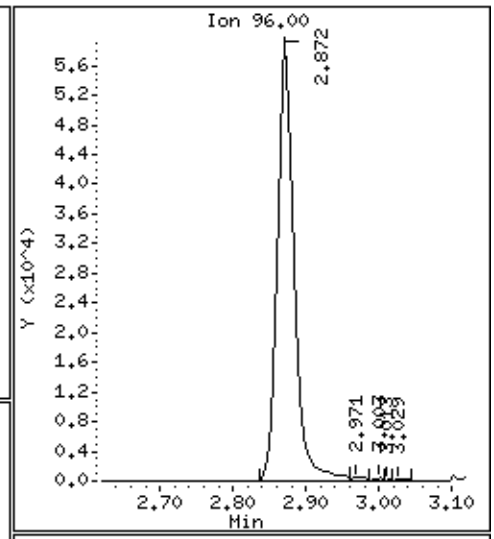
Concentration: 53.1 ppb

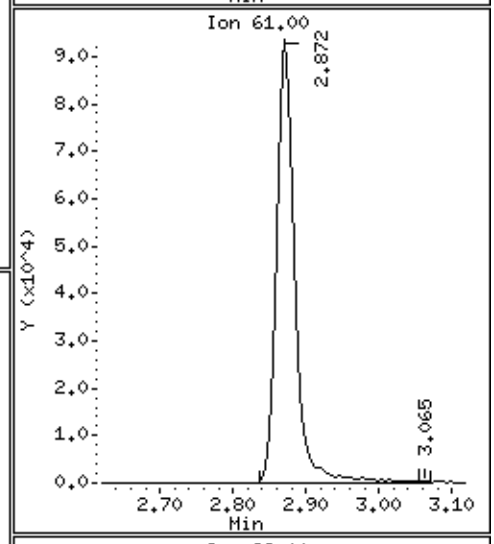


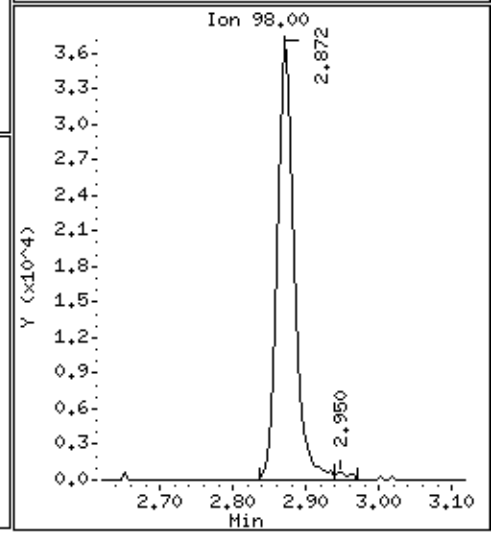












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

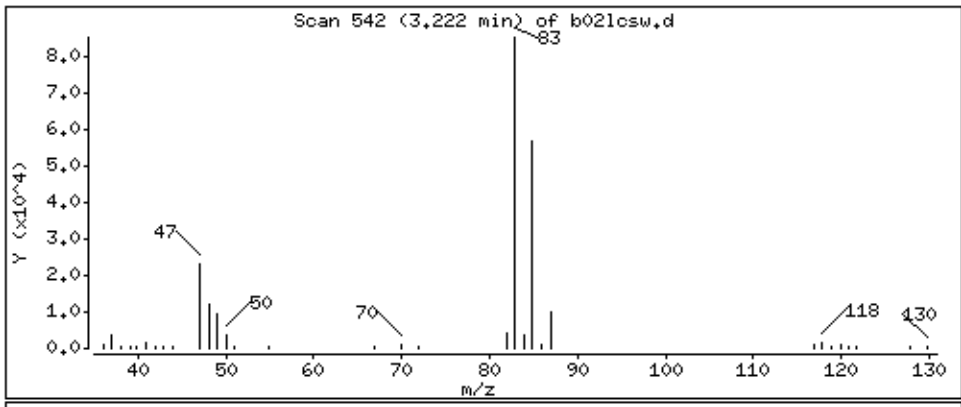
Operator: grm

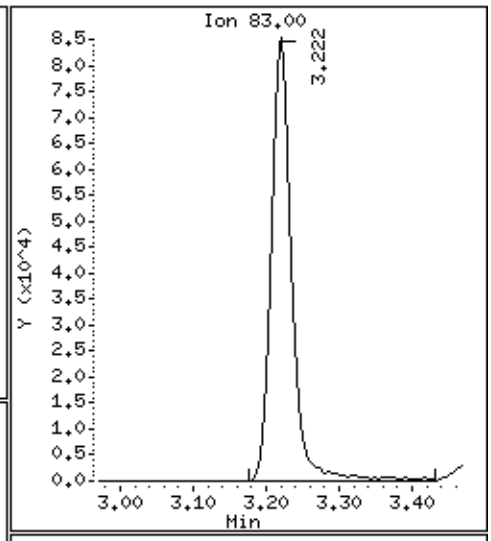
Column phase: DB-624

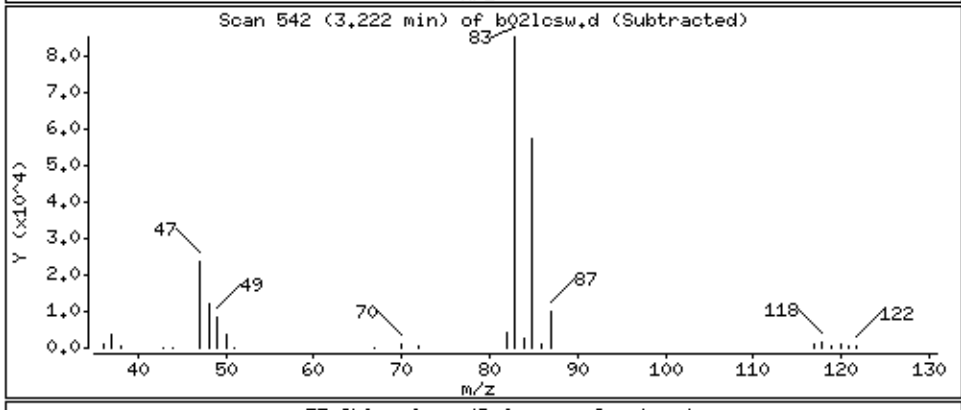
Column diameter: 0.18

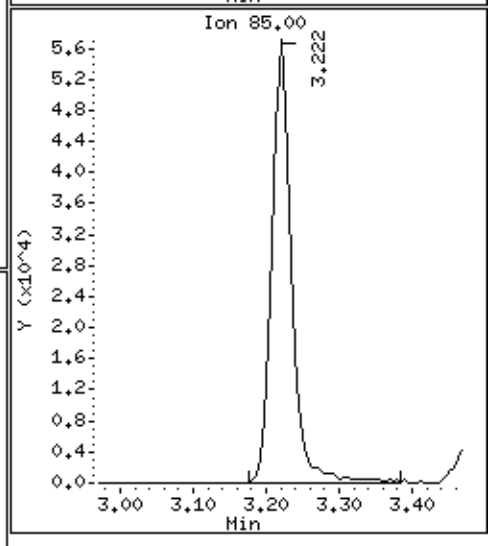
35 Chloroform

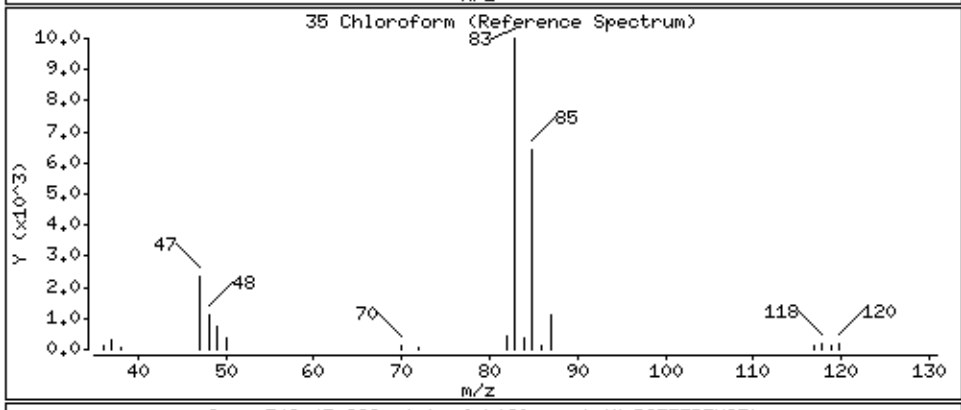
Concentration: 51.9 ppb

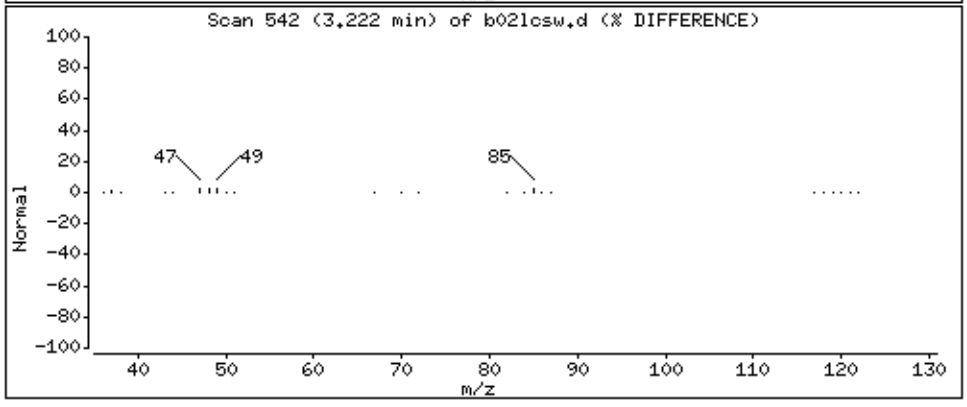












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

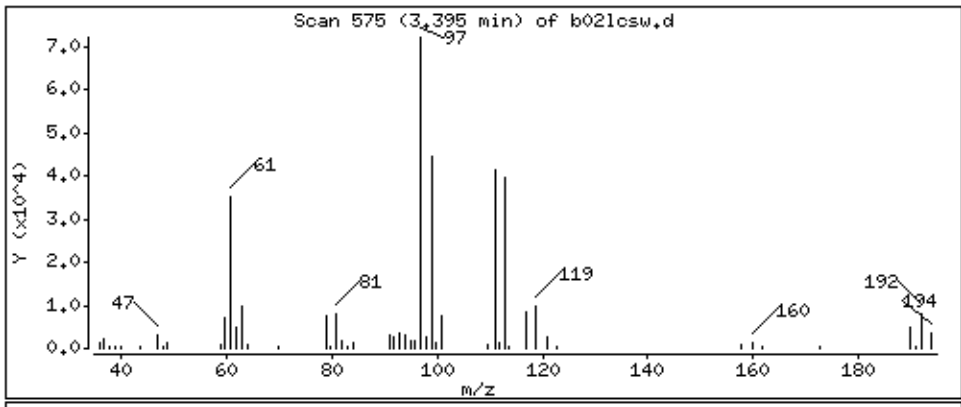
Operator: grm

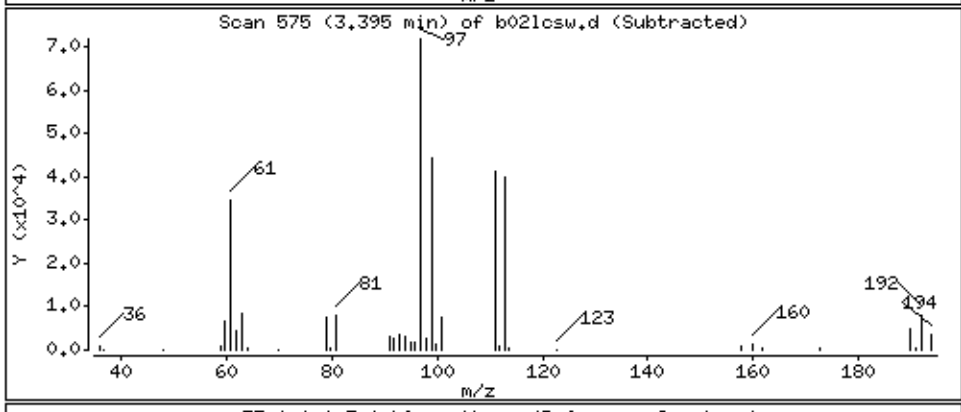
Column phase: DB-624

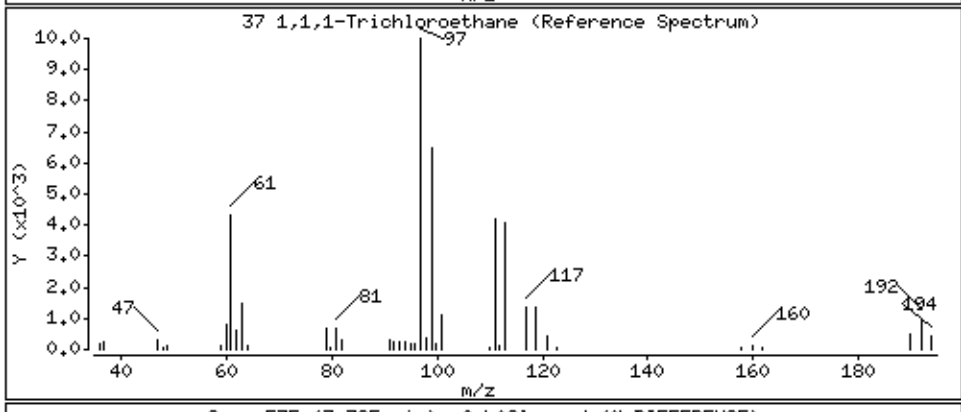
Column diameter: 0.18

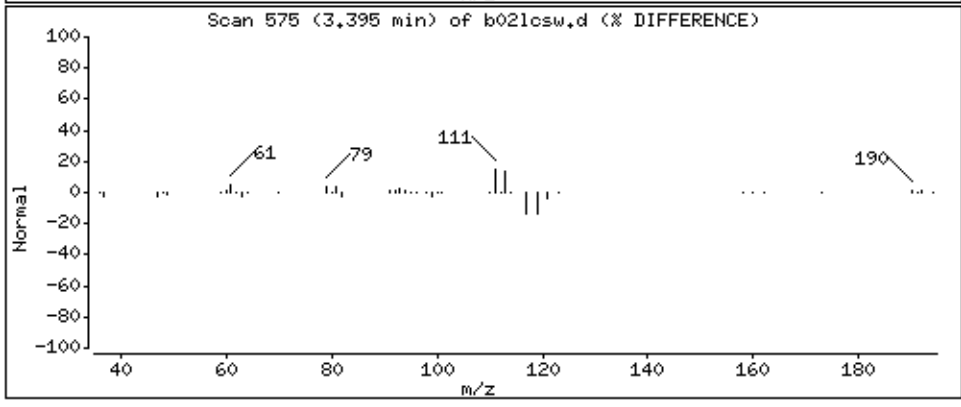
37 1,1,1-Trichloroethane

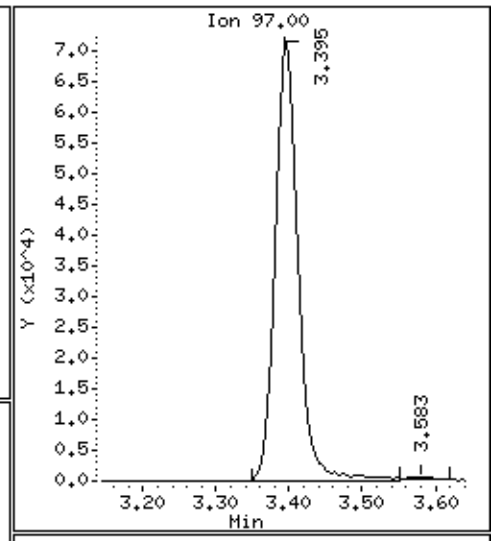
Concentration: 53.5 ppb

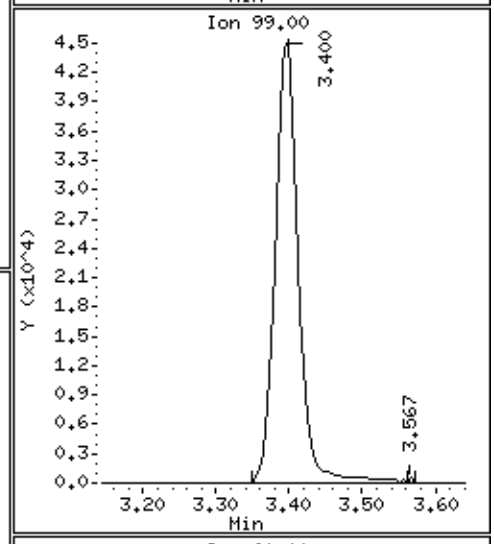


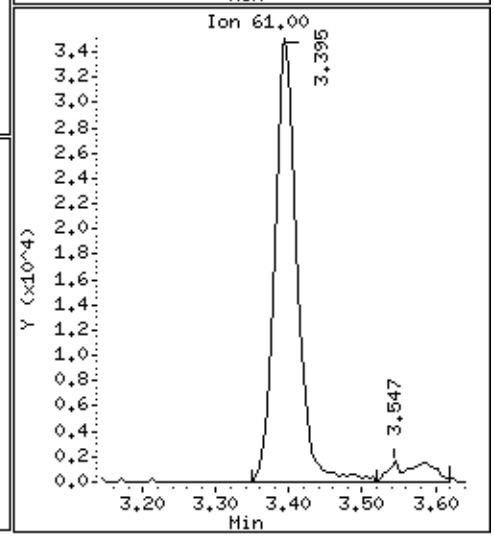












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

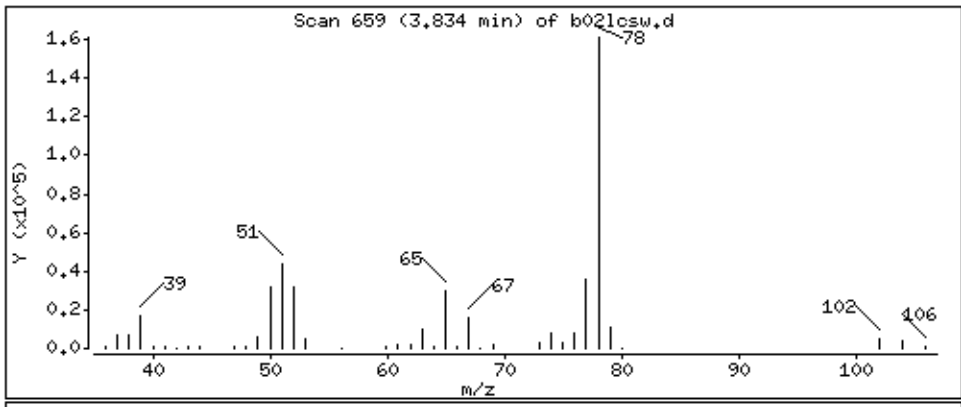
Operator: grm

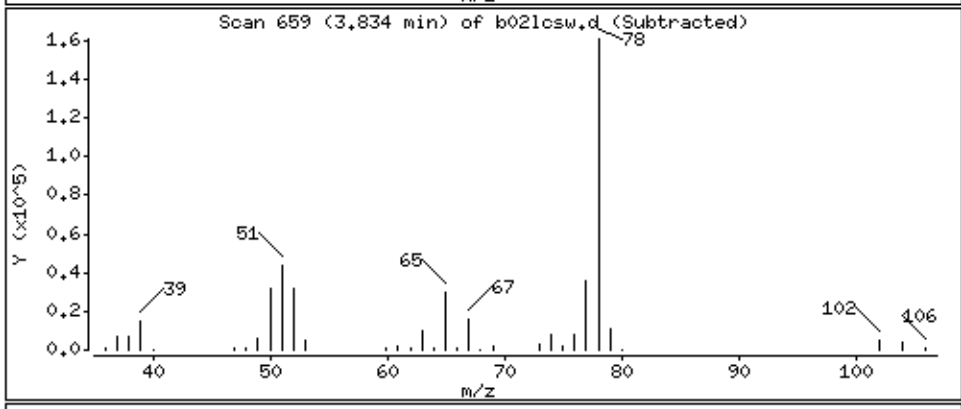
Column phase: DB-624

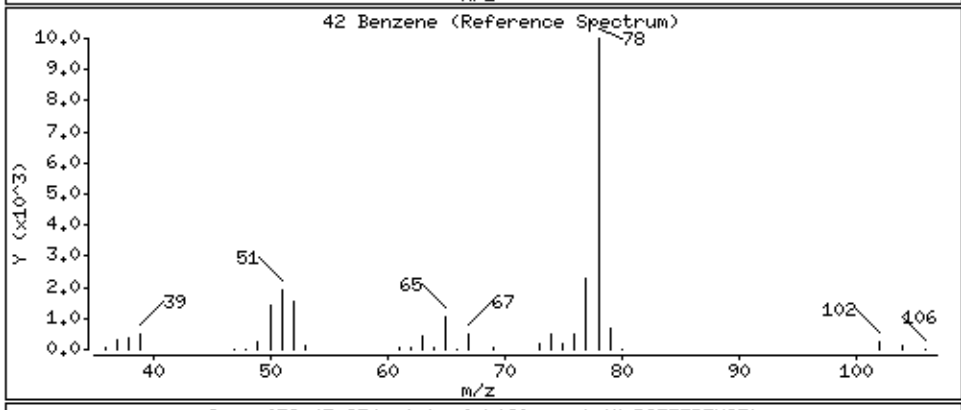
Column diameter: 0.18

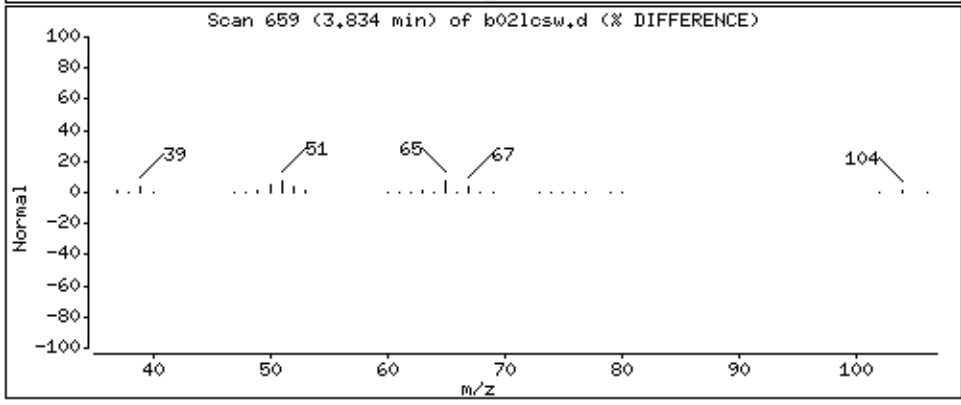
42 Benzene

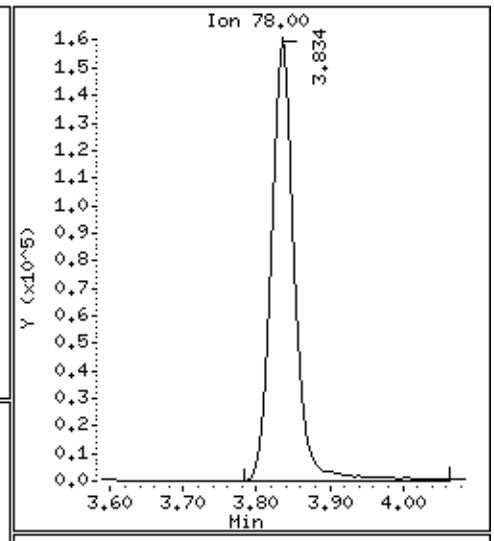
Concentration: 53.0 ppb

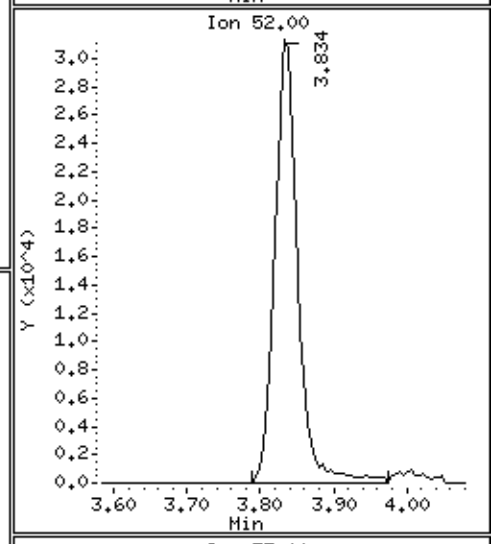


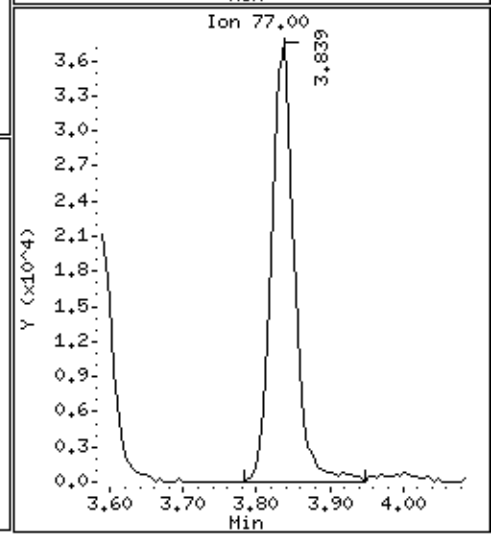












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

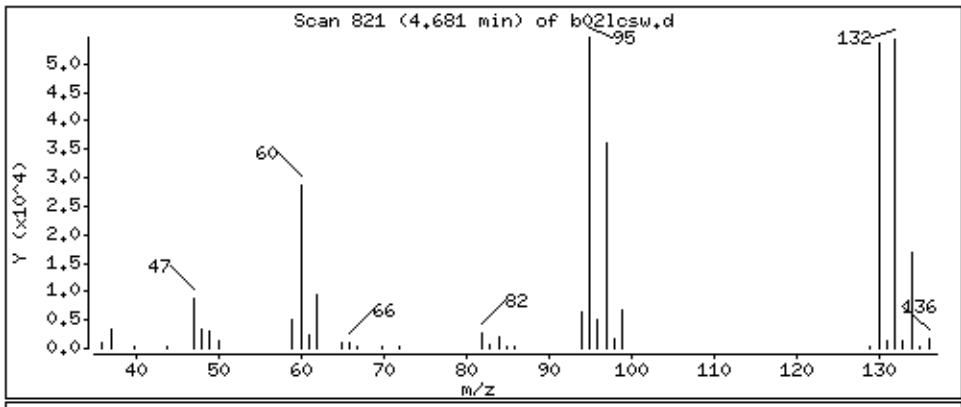
Operator: grm

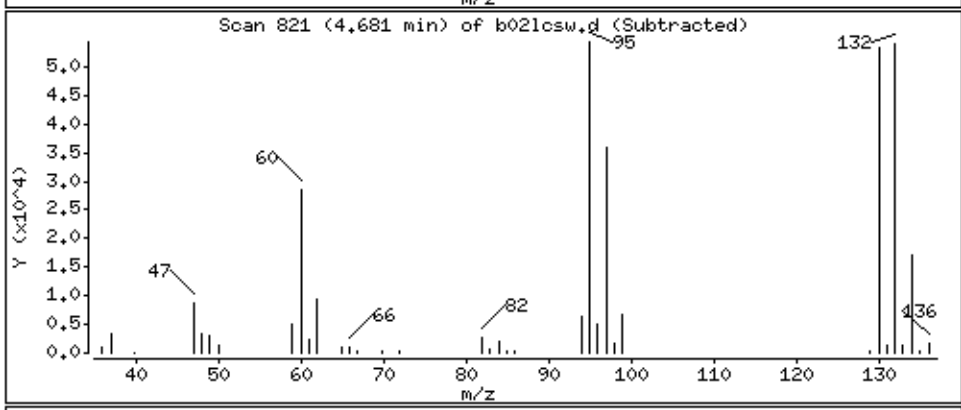
Column phase: DB-624

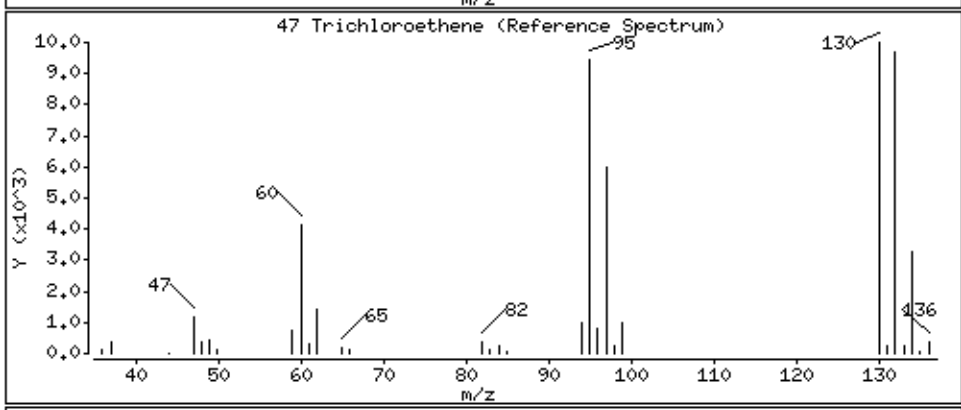
Column diameter: 0.18

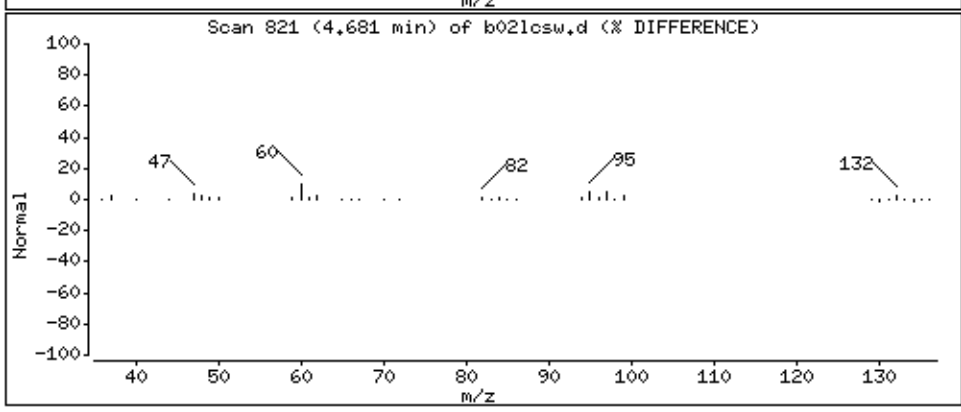
47 Trichloroethene

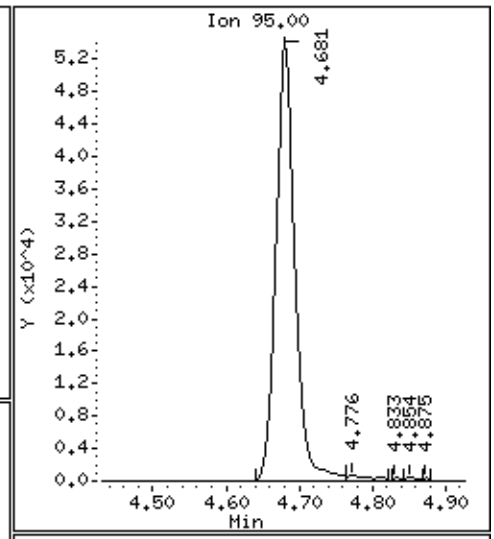
Concentration: 56.1 ppb

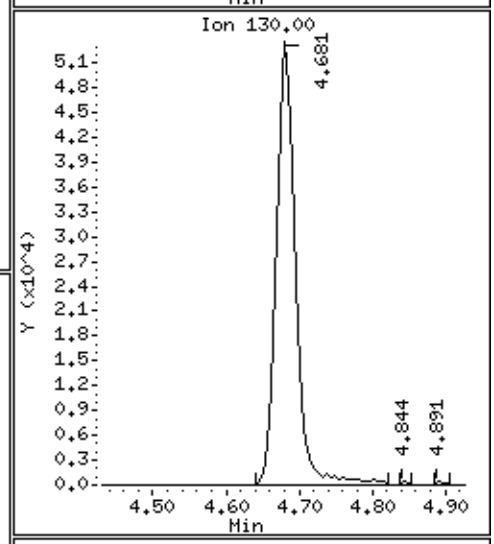


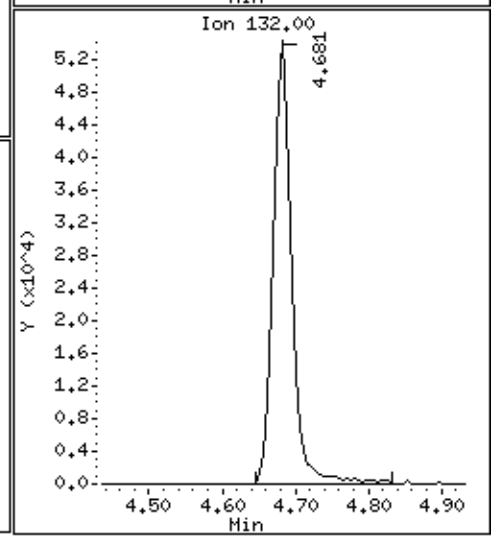












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

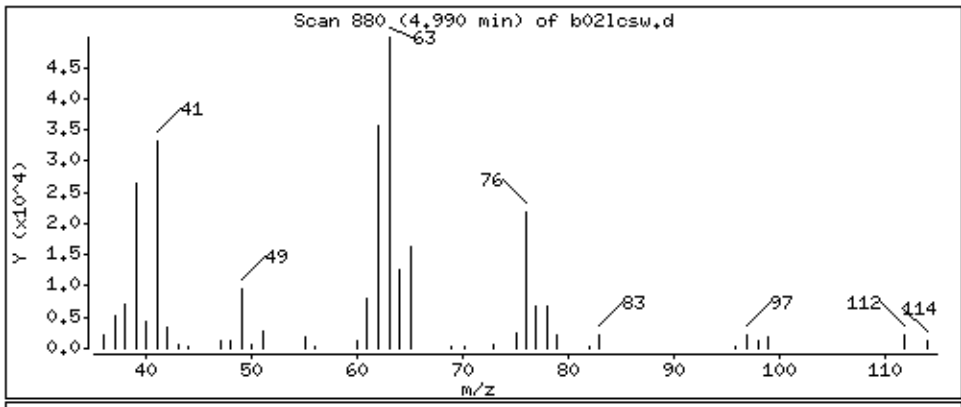
Operator: grm

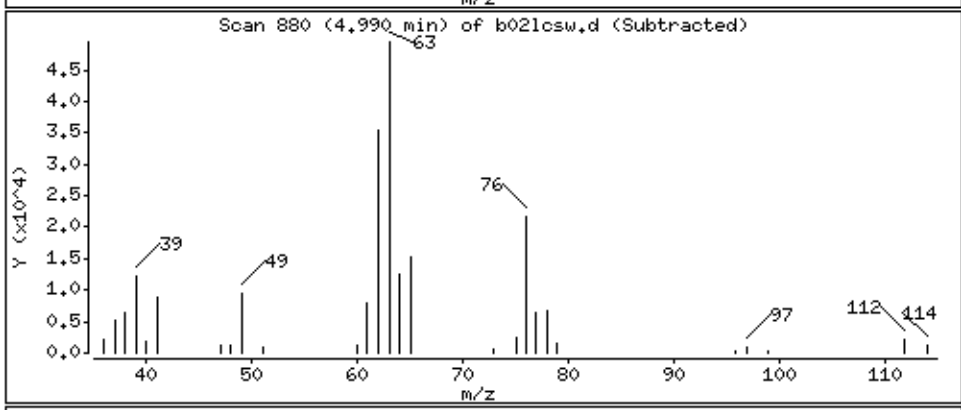
Column phase: DB-624

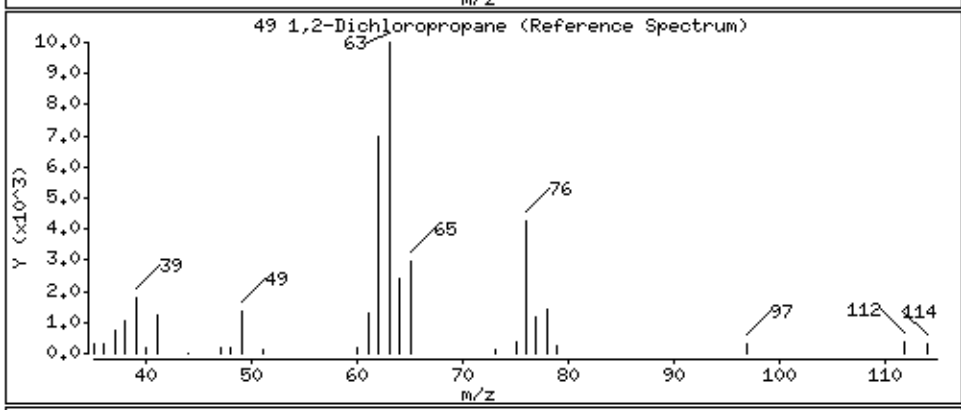
Column diameter: 0.18

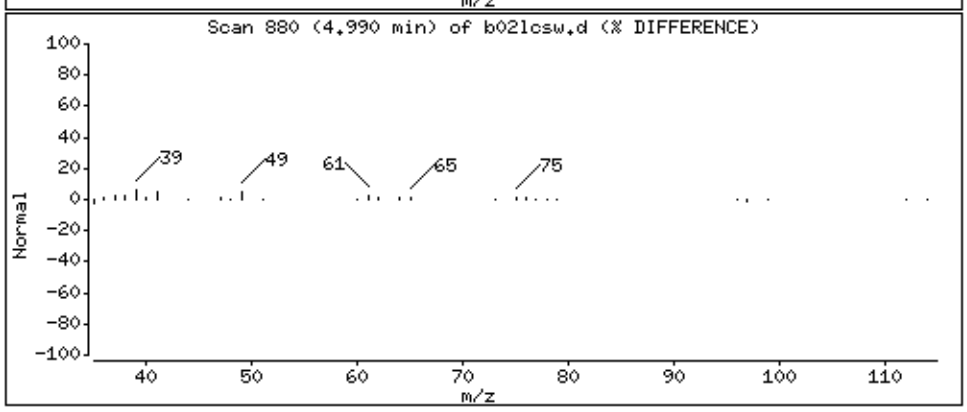
49 1,2-Dichloropropane

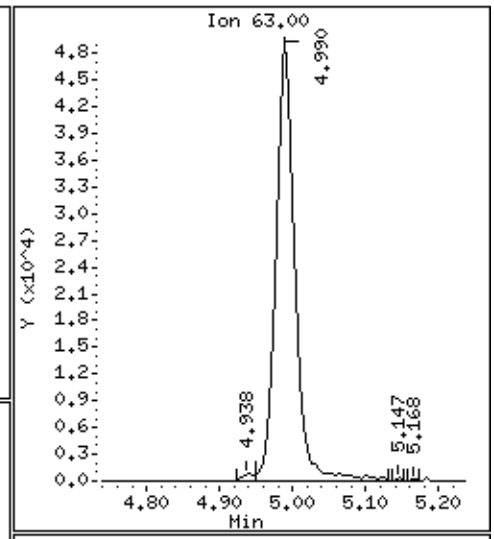
Concentration: 52.0 ppb

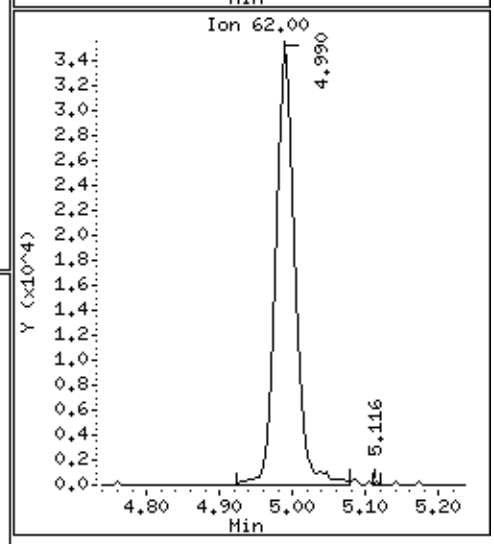












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

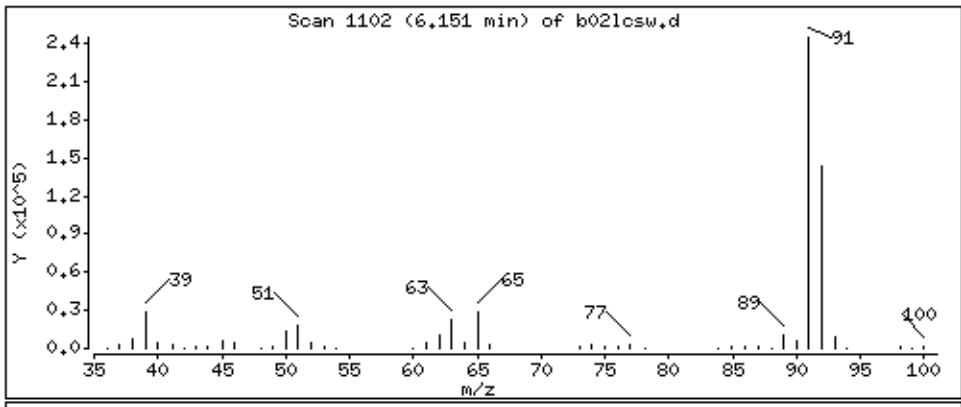
Operator: grm

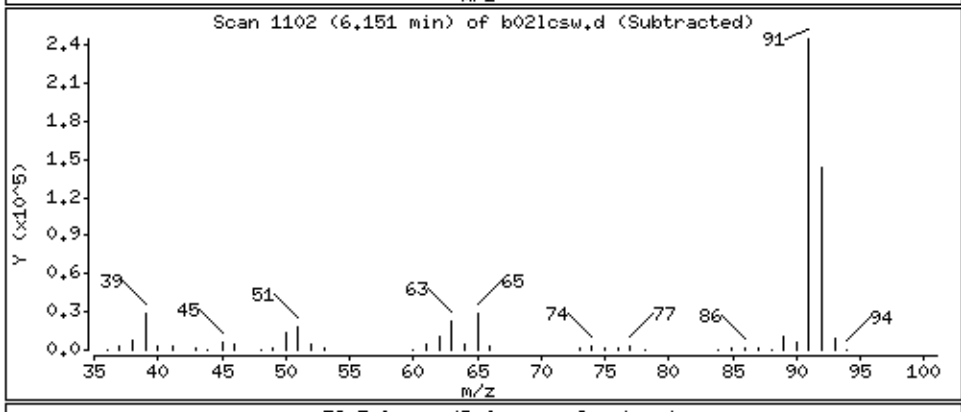
Column phase: DB-624

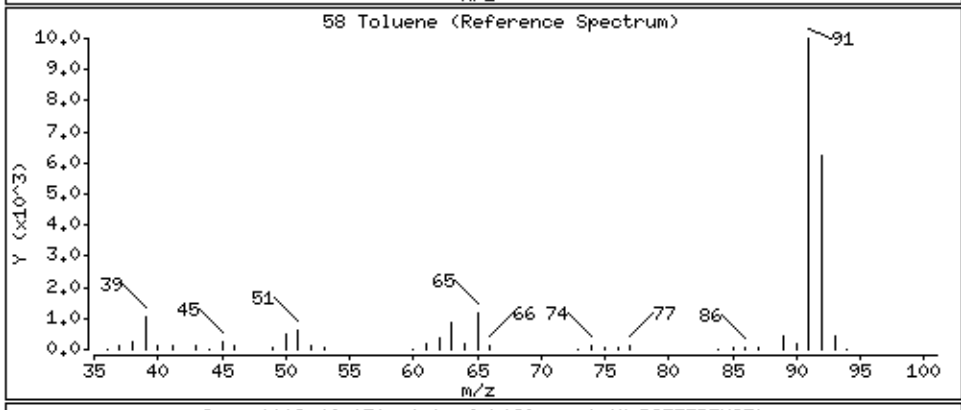
Column diameter: 0.18

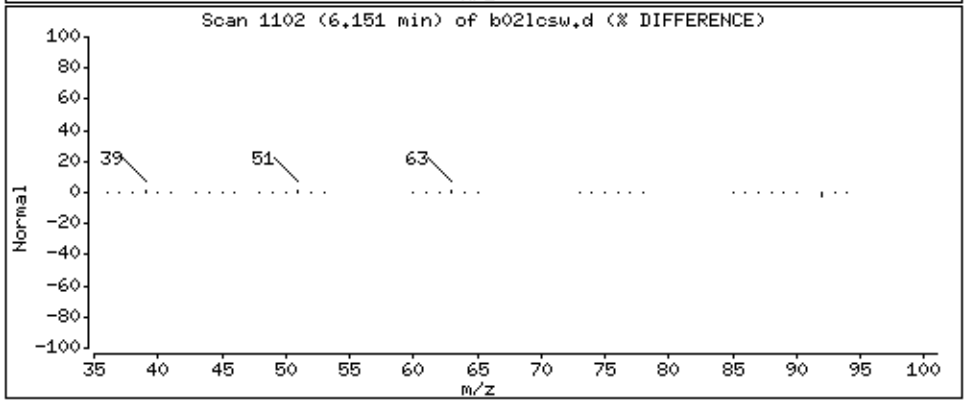
58 Toluene

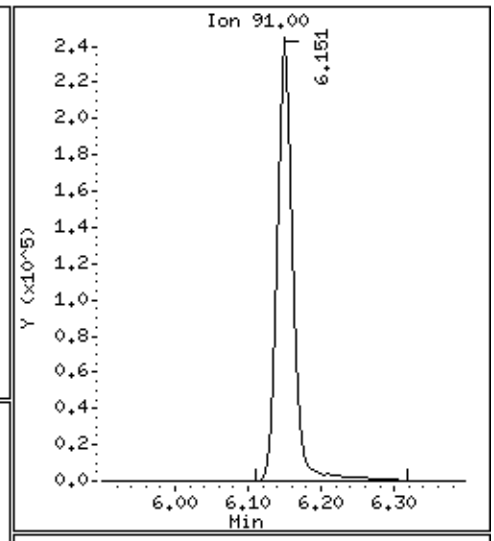
Concentration: 52.2 ppb

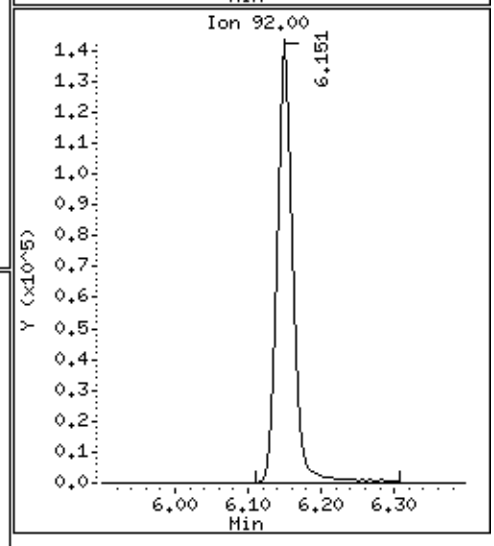












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

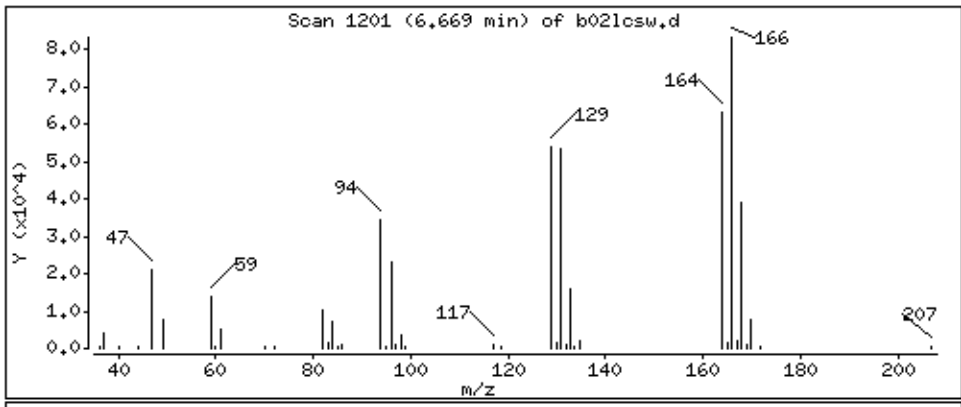
Operator: grm

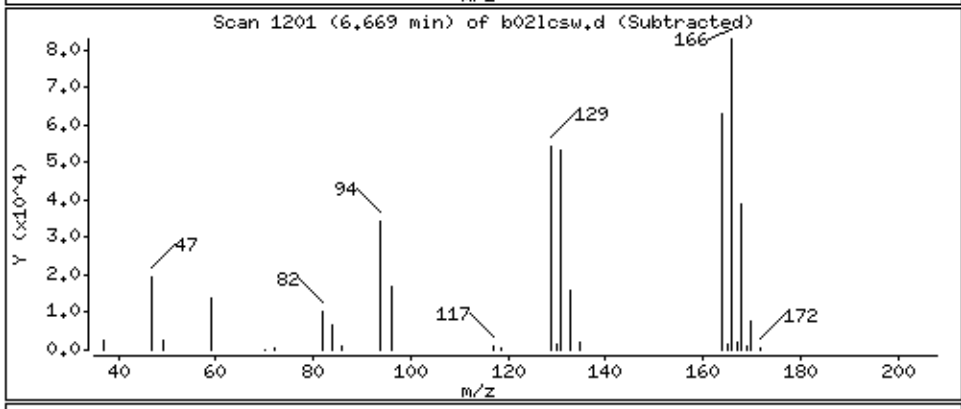
Column phase: DB-624

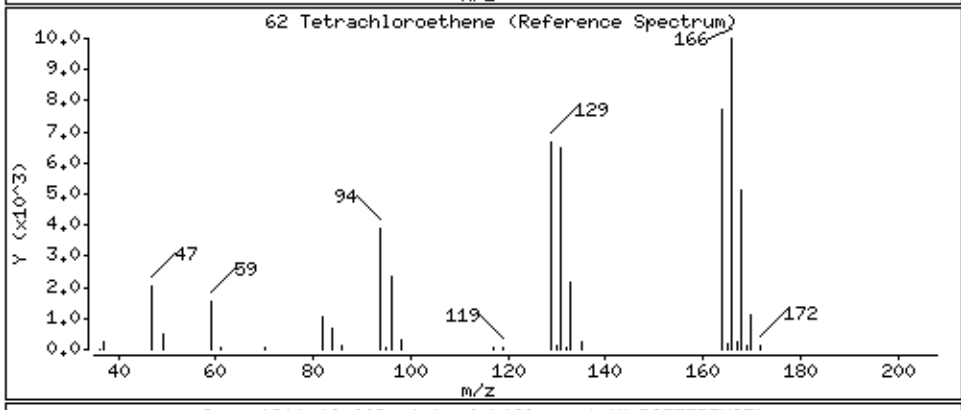
Column diameter: 0.18

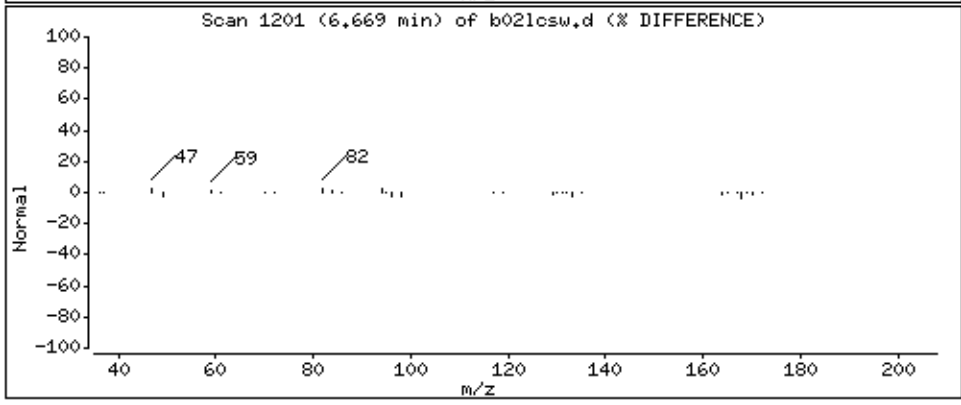
62 Tetrachloroethene

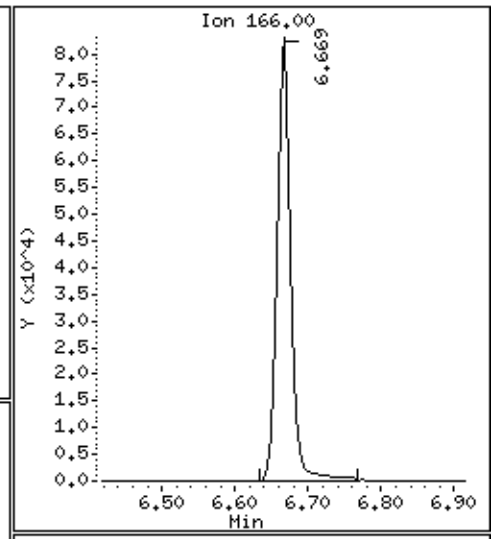
Concentration: 56.8 ppb

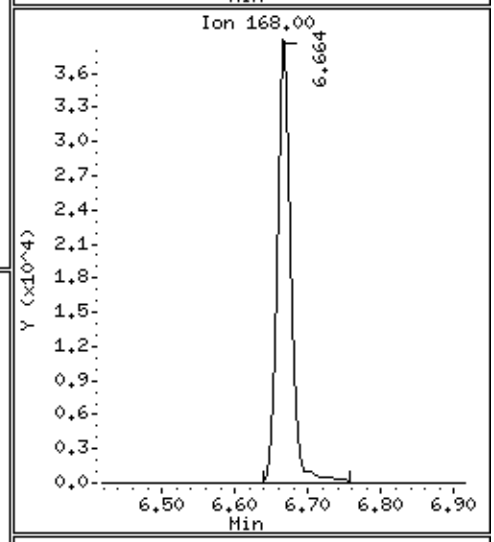


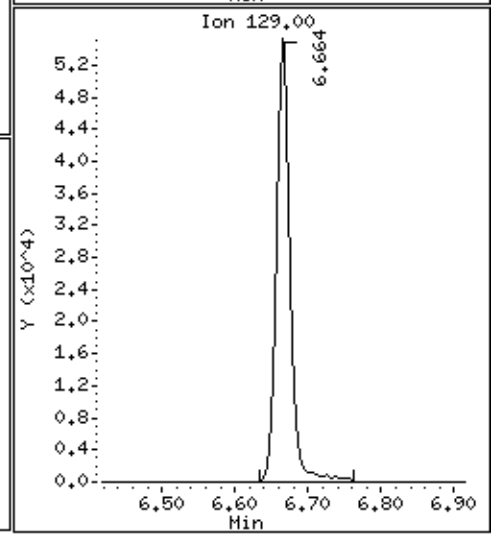












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

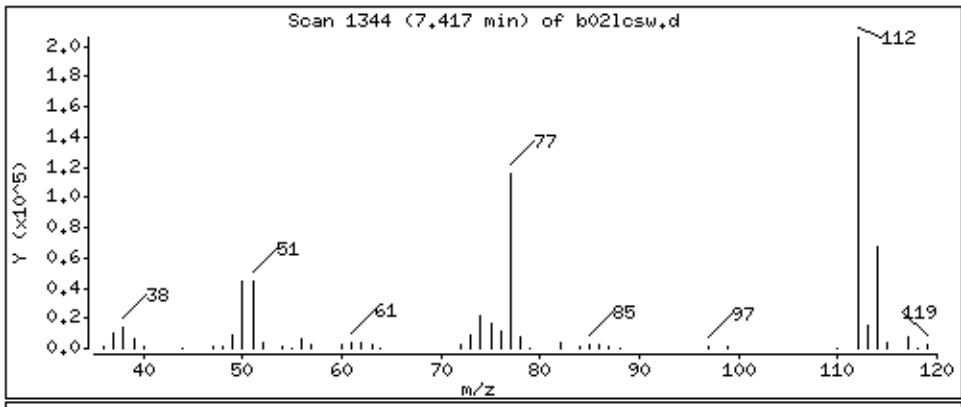
Operator: grm

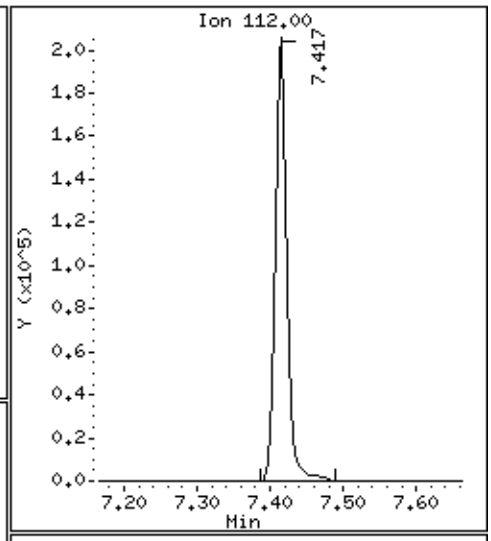
Column phase: DB-624

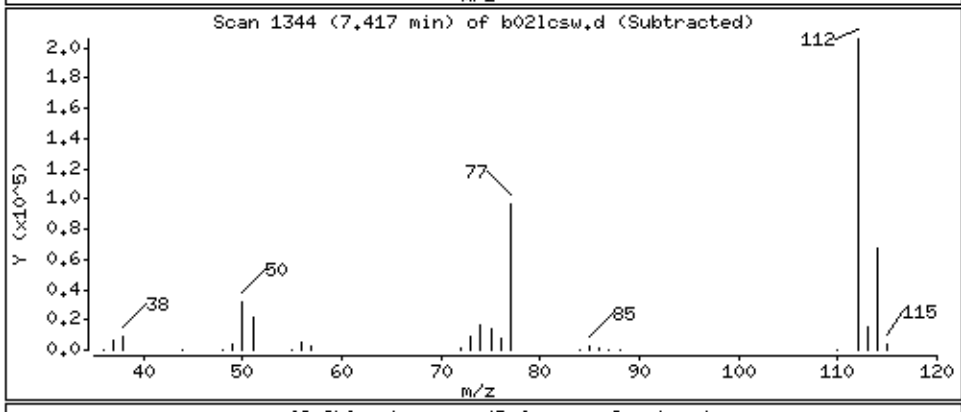
Column diameter: 0.18

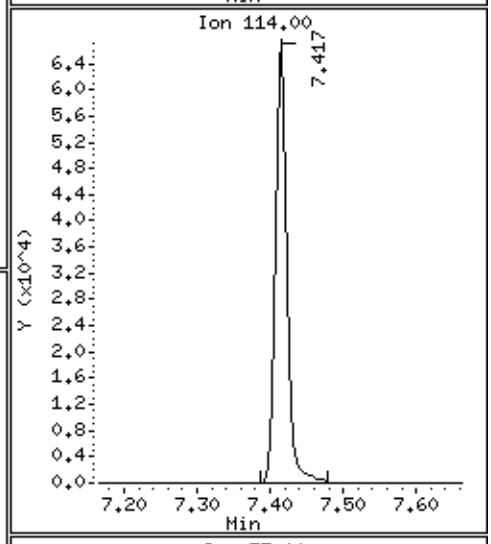
68 Chlorobenzene

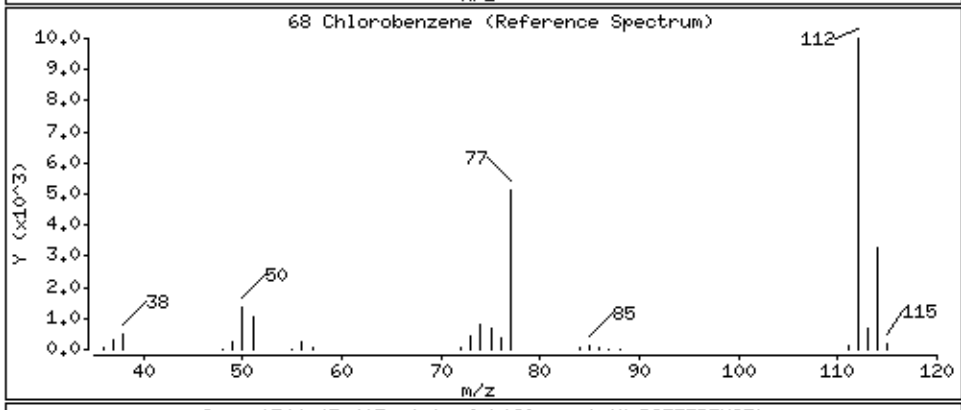
Concentration: 51.2 ppb

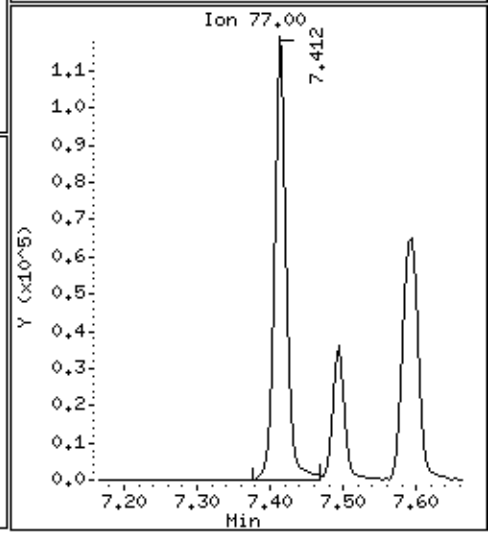


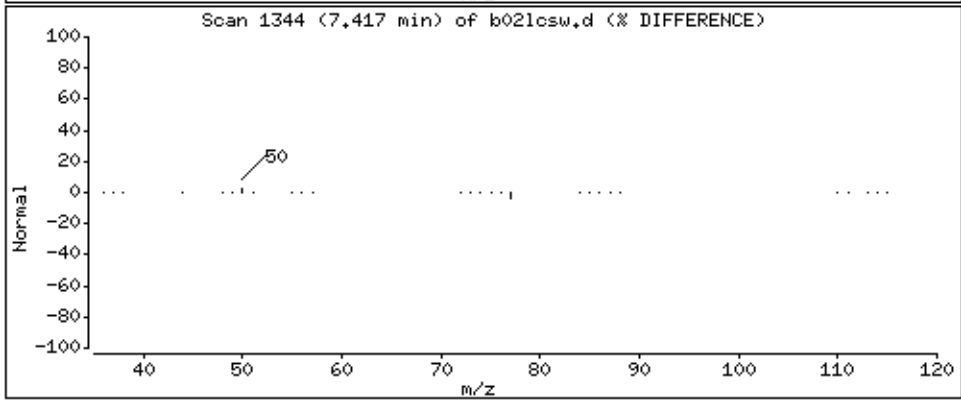












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

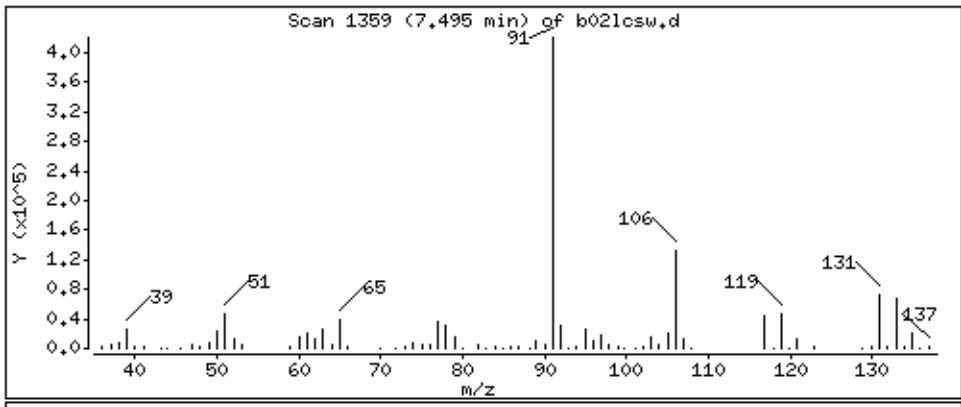
Operator: grm

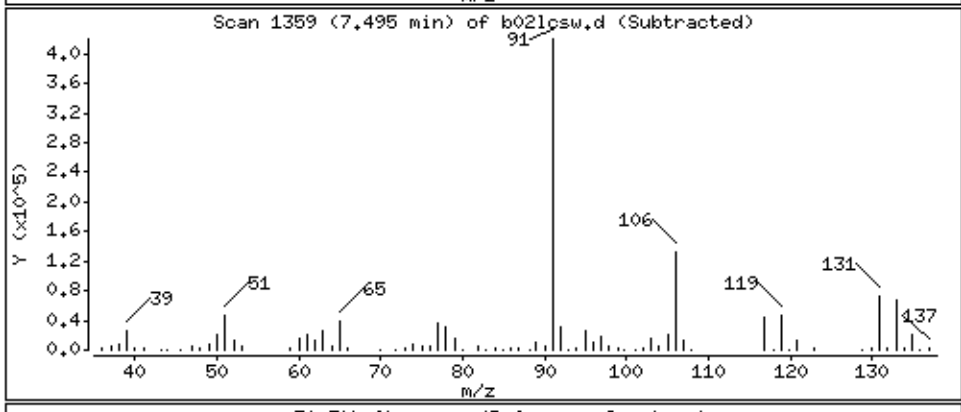
Column phase: DB-624

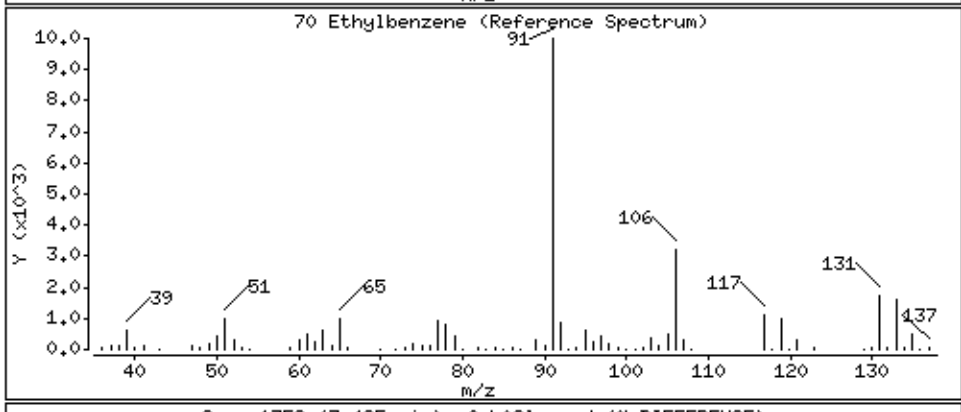
Column diameter: 0.18

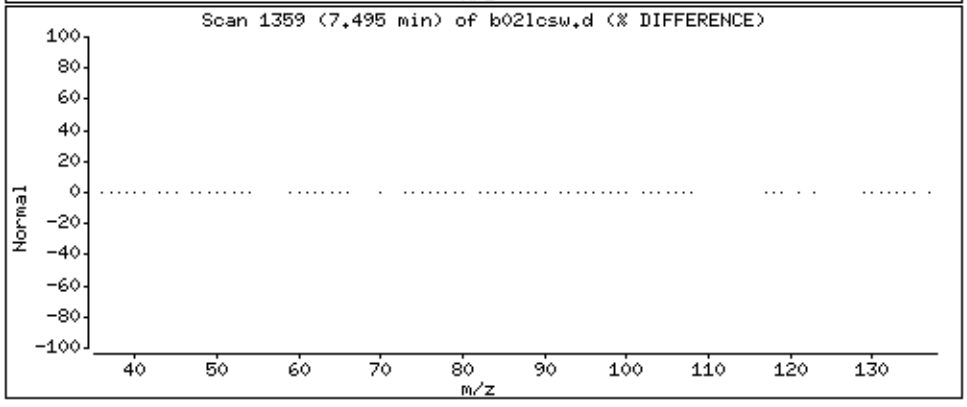
70 Ethylbenzene

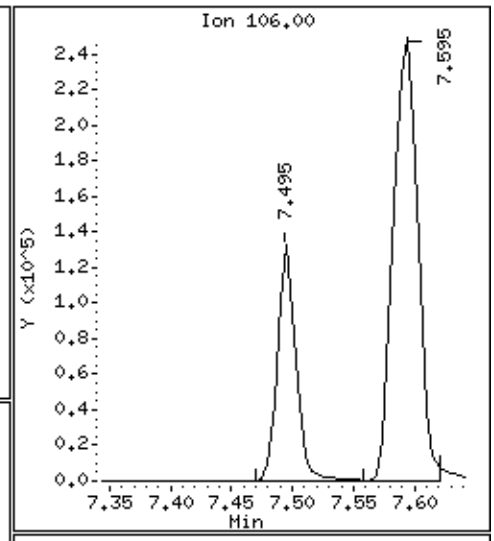
Concentration: 53.0 ppb

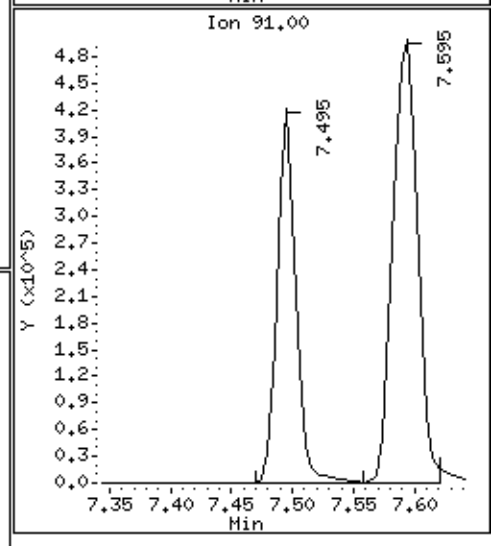












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

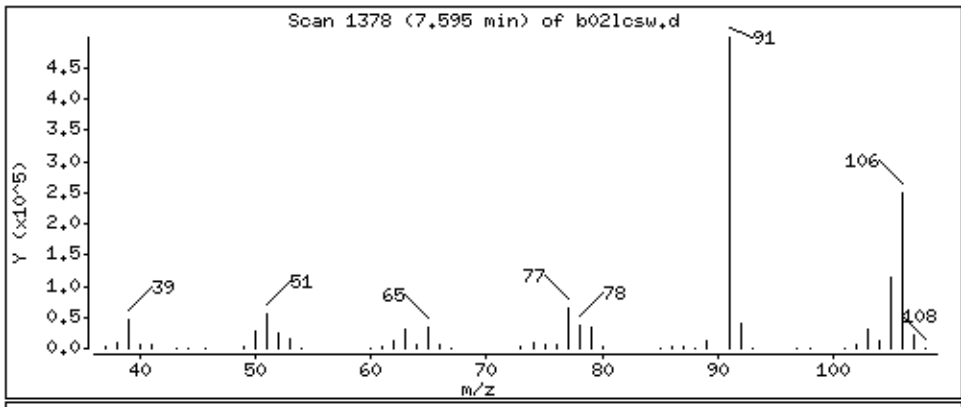
Operator: grm

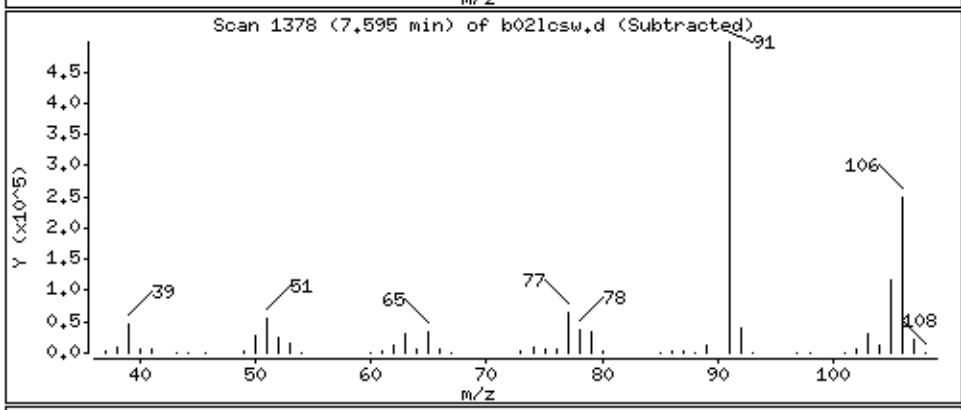
Column phase: DB-624

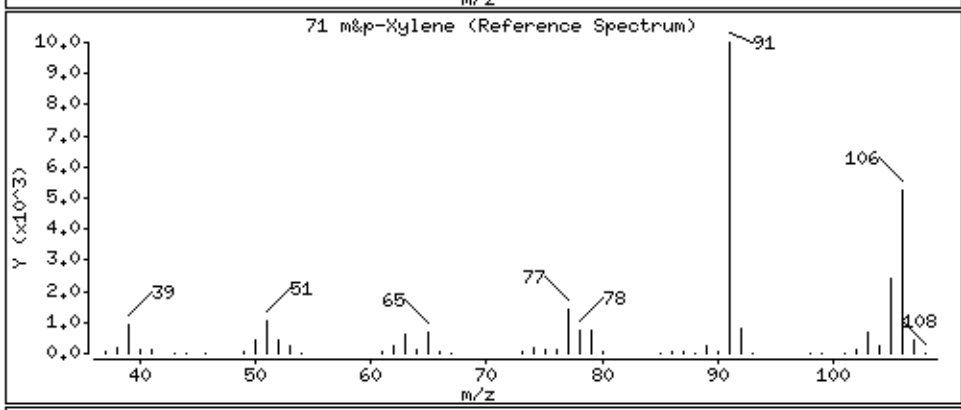
Column diameter: 0.18

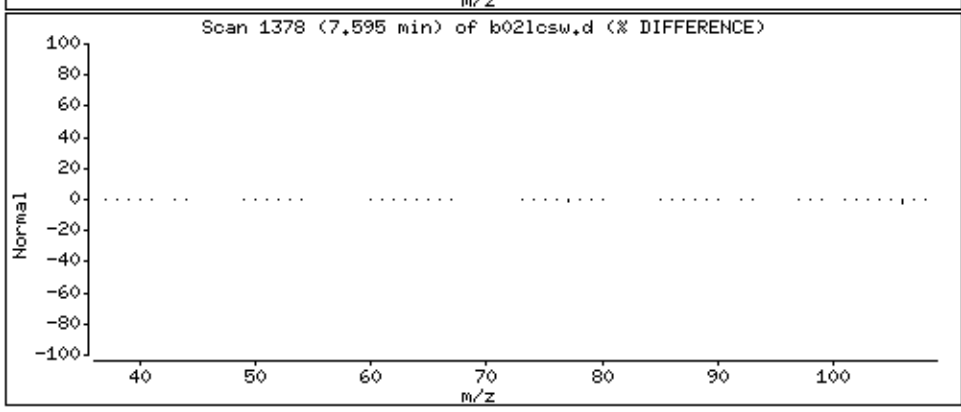
71 m&p-Xylene

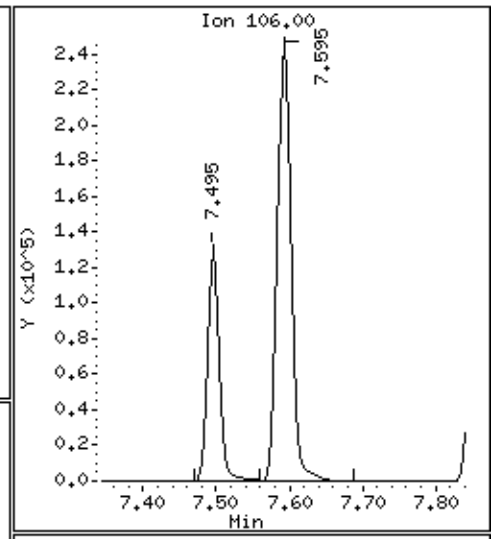
Concentration: 107 ppb

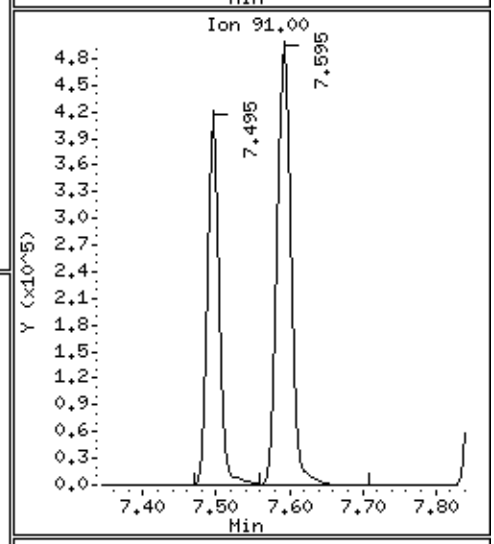


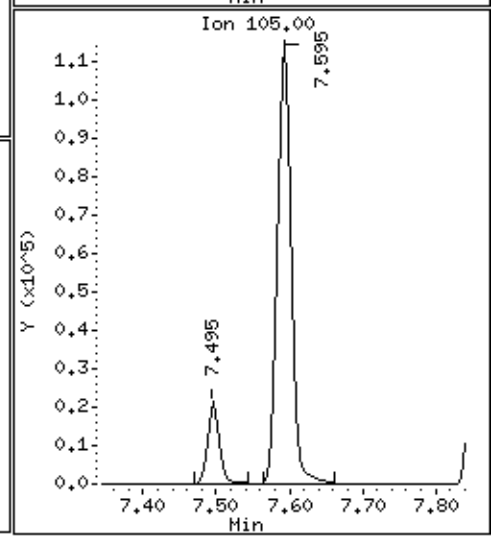












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

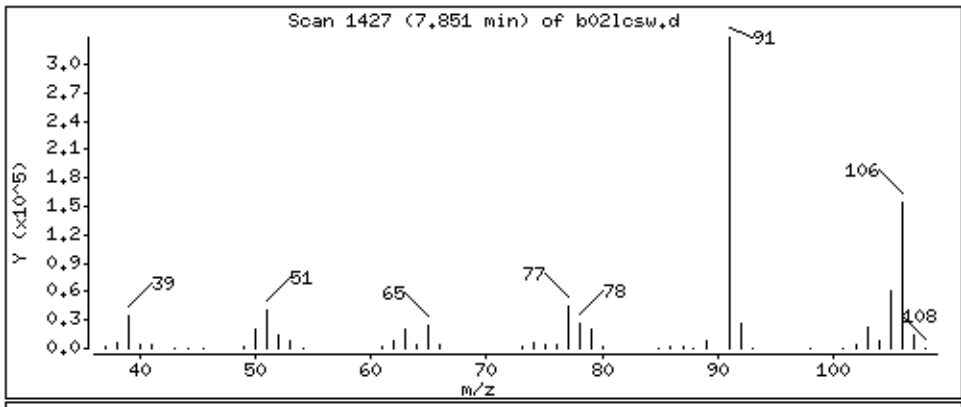
Operator: grm

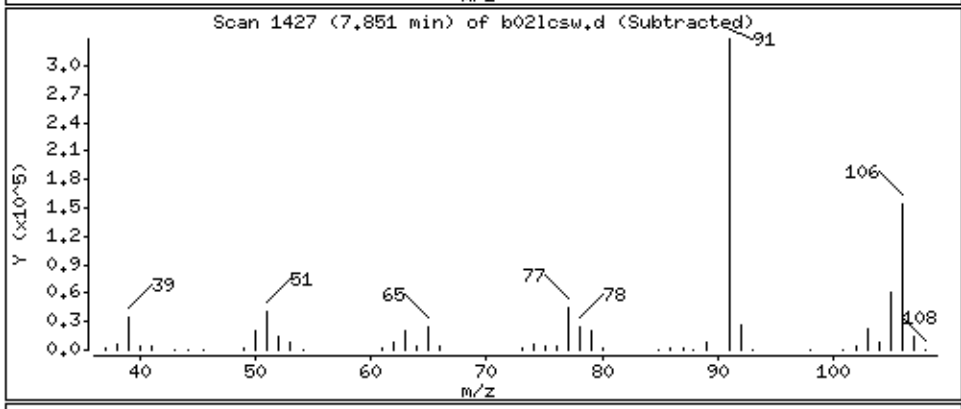
Column phase: DB-624

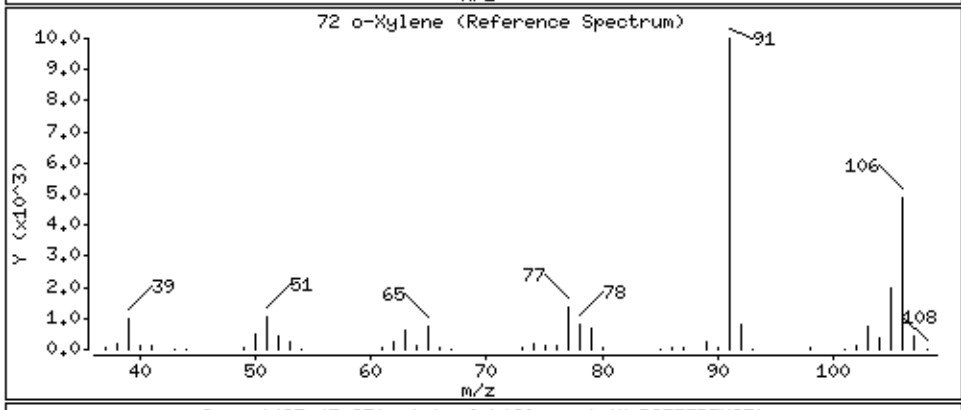
Column diameter: 0.18

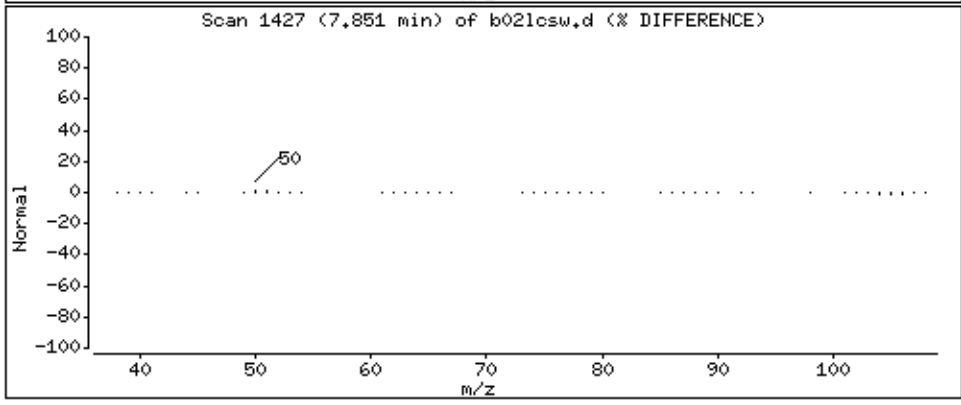
72 o-Xylene

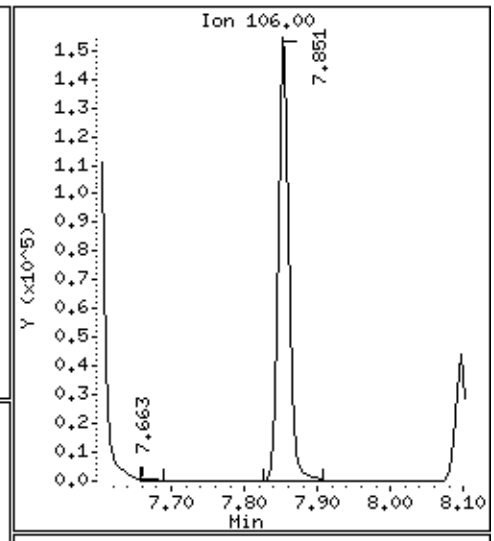
Concentration: 53.5 ppb

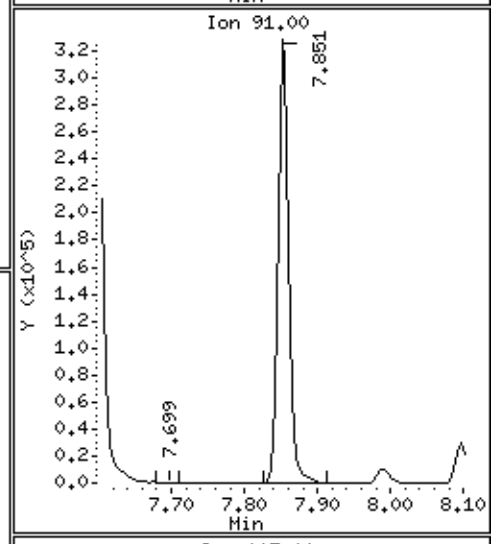


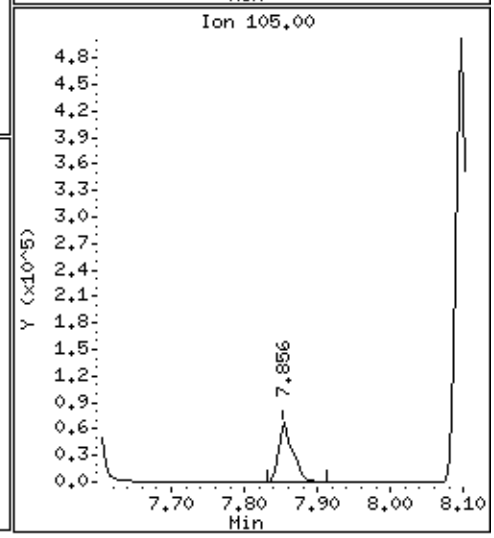












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

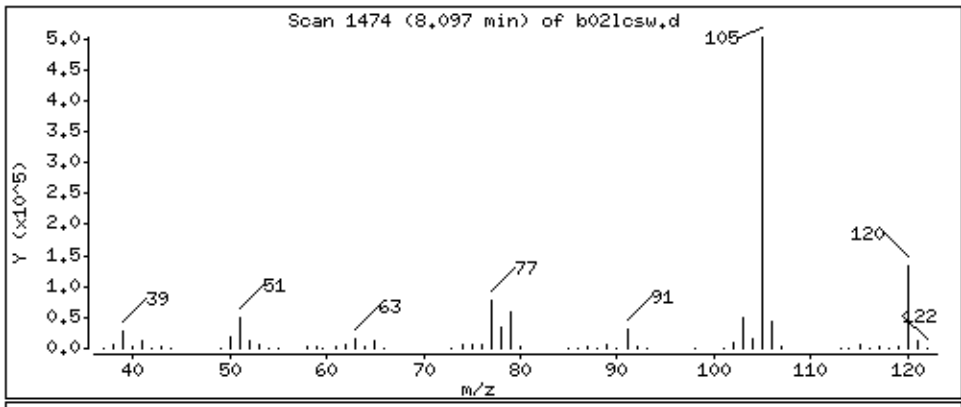
Operator: grm

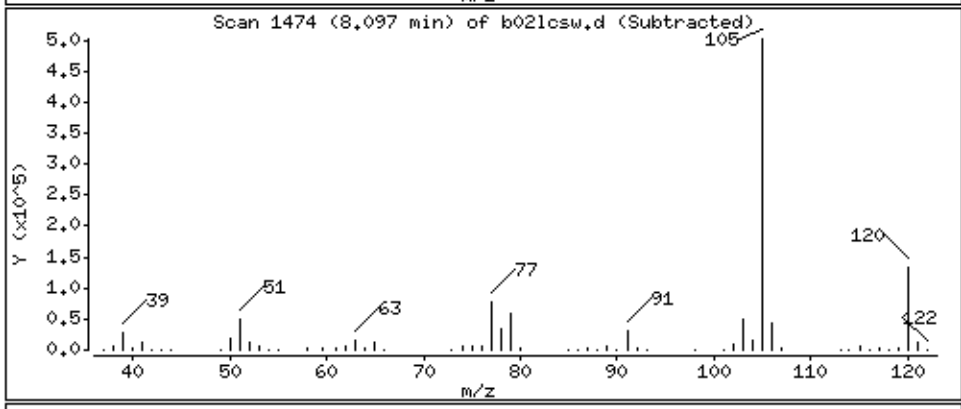
Column phase: DB-624

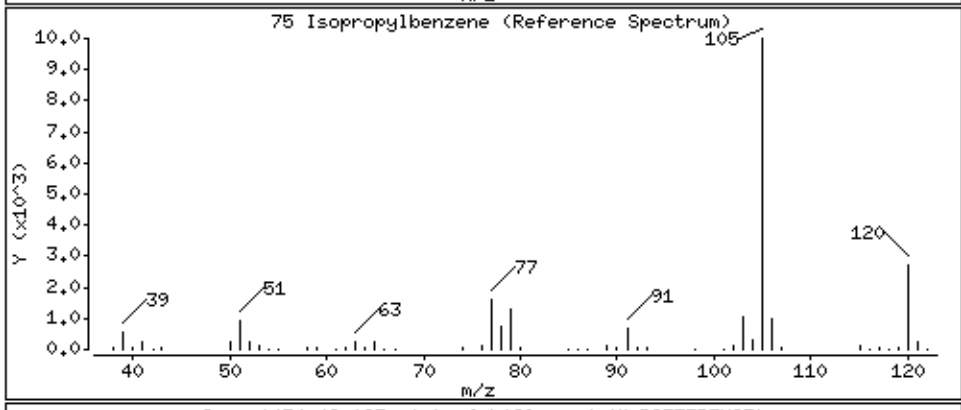
Column diameter: 0.18

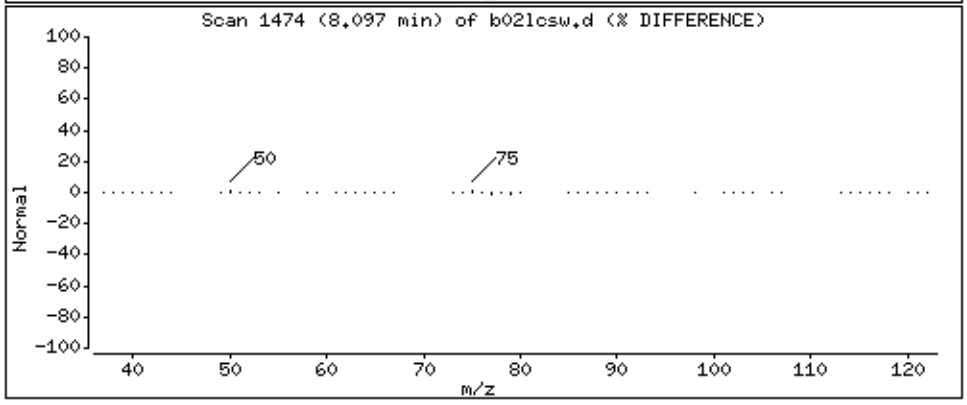
75 Isopropylbenzene

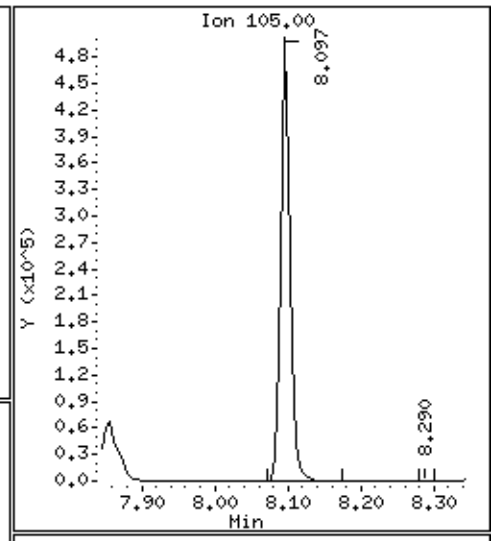
Concentration: 54.0 ppb

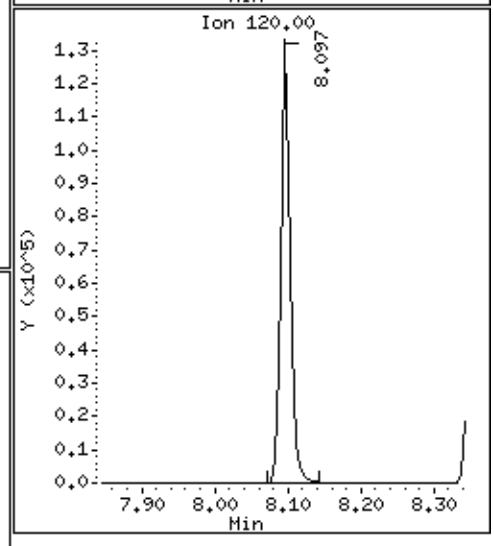












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

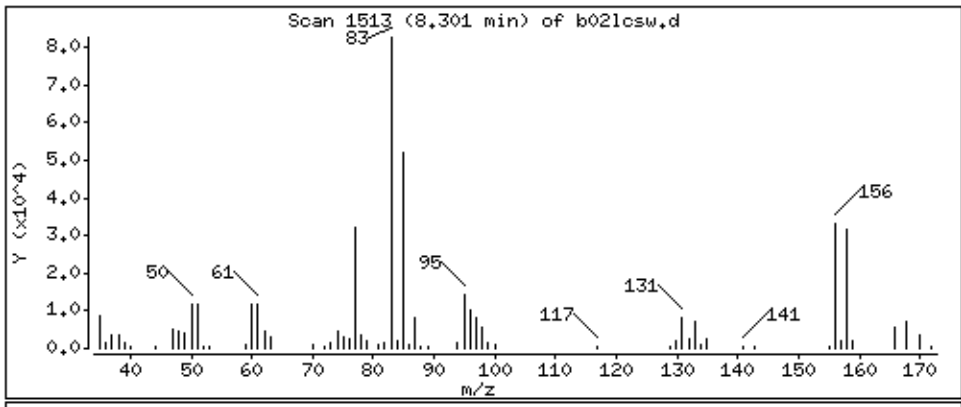
Operator: grm

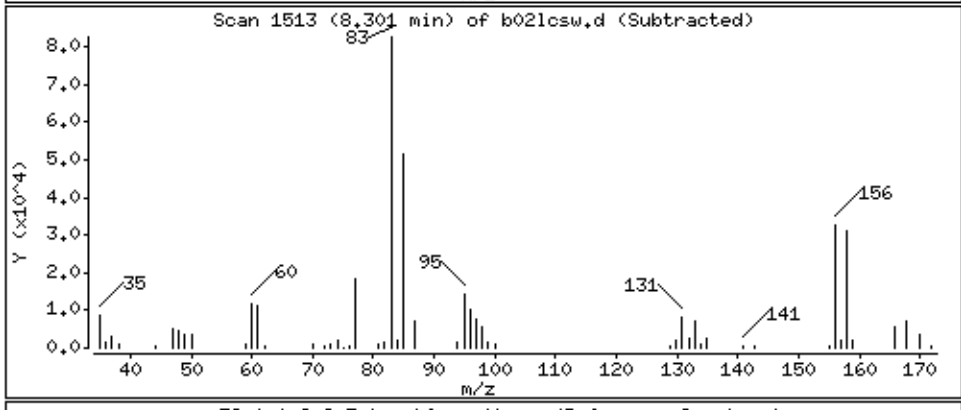
Column phase: DB-624

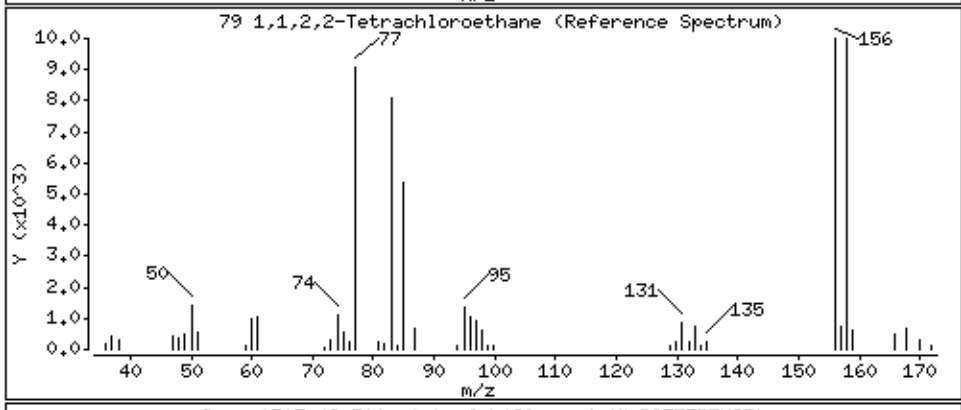
Column diameter: 0.18

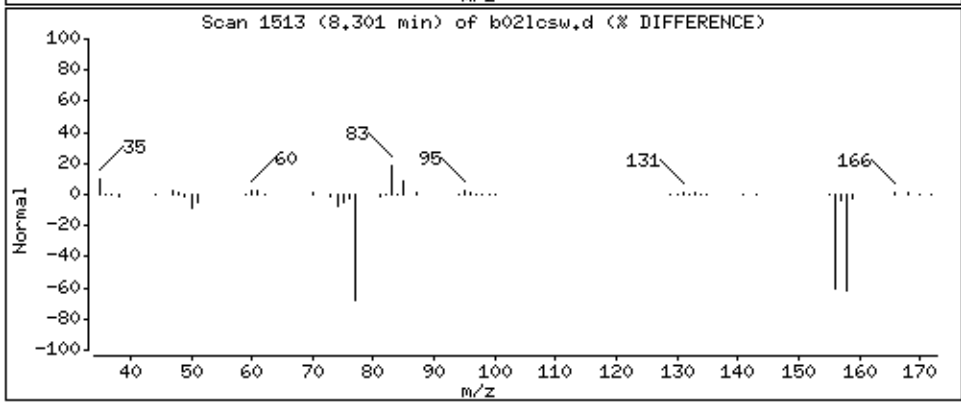
79 1,1,2,2-Tetrachloroethane

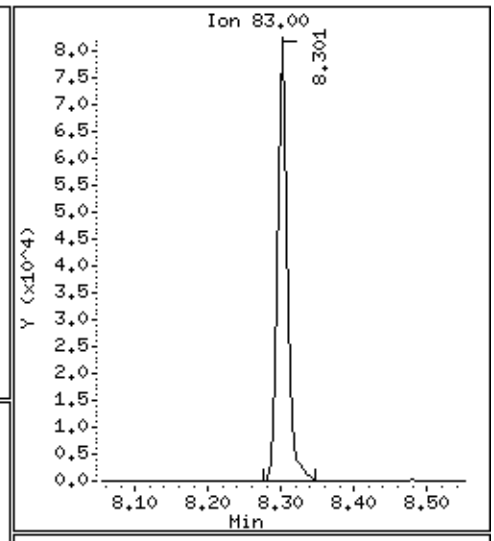
Concentration: 55.6 ppb

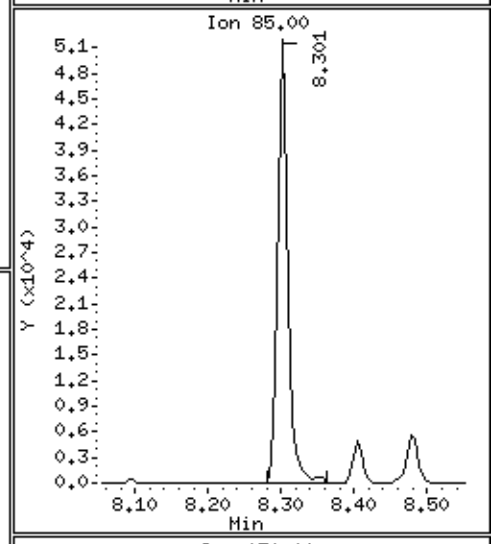


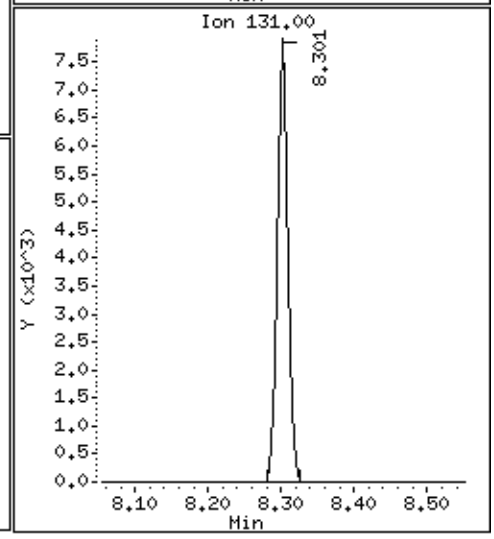












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

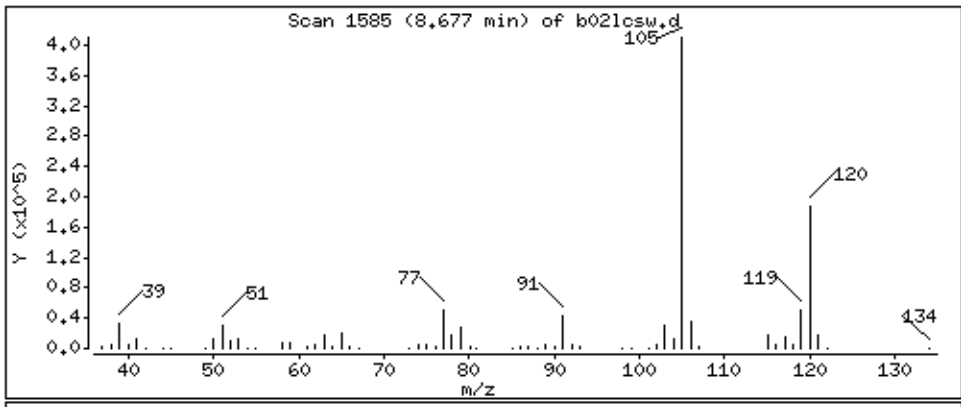
Operator: grm

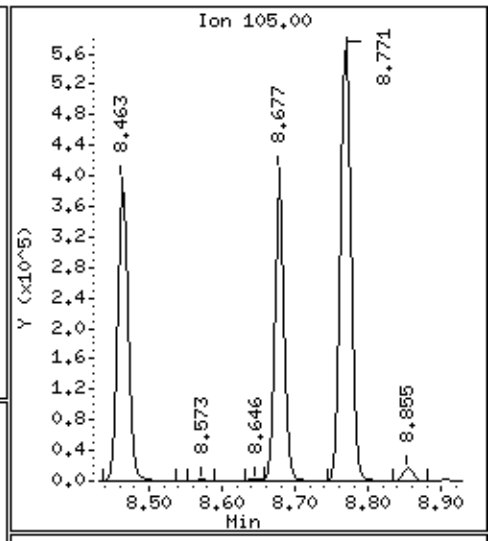
Column phase: DB-624

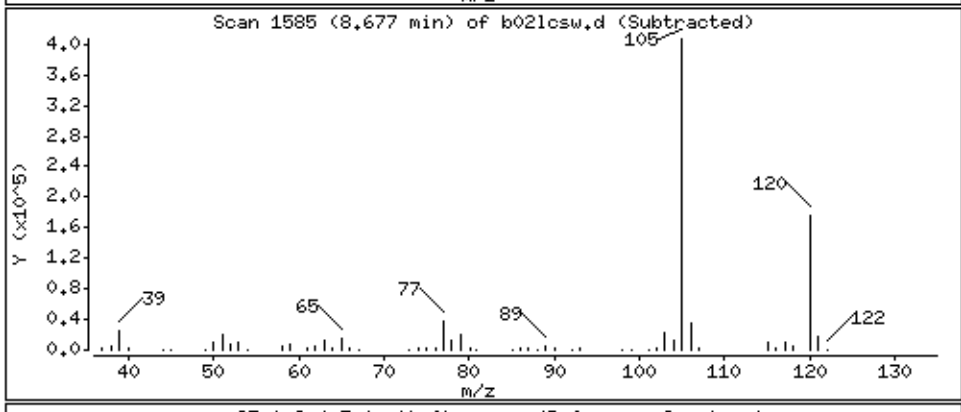
Column diameter: 0.18

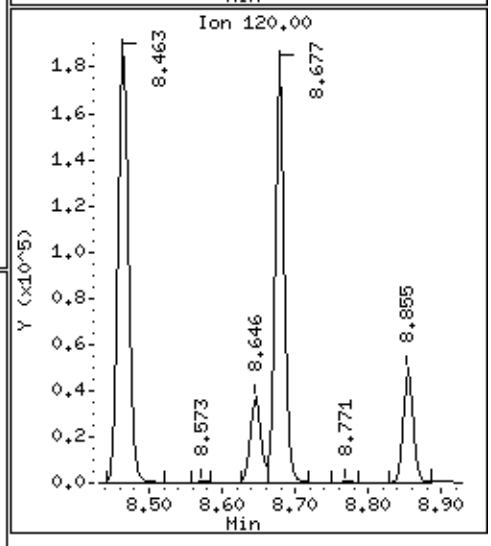
87 1,2,4-Trimethylbenzene

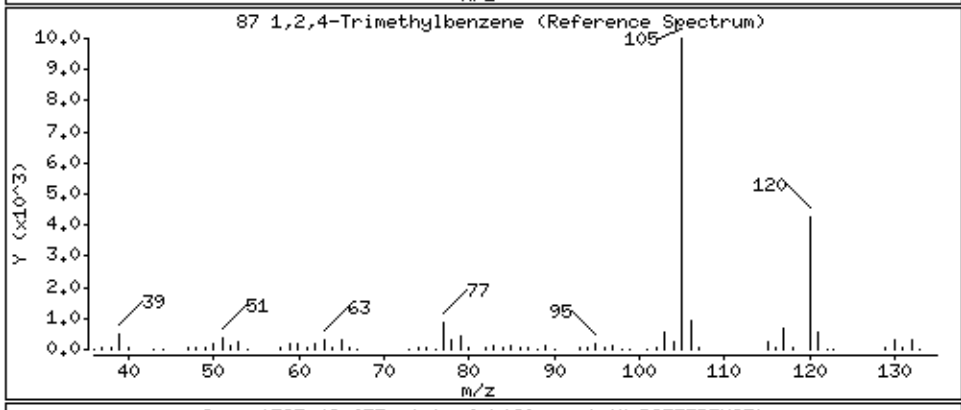
Concentration: 52.4 ppb

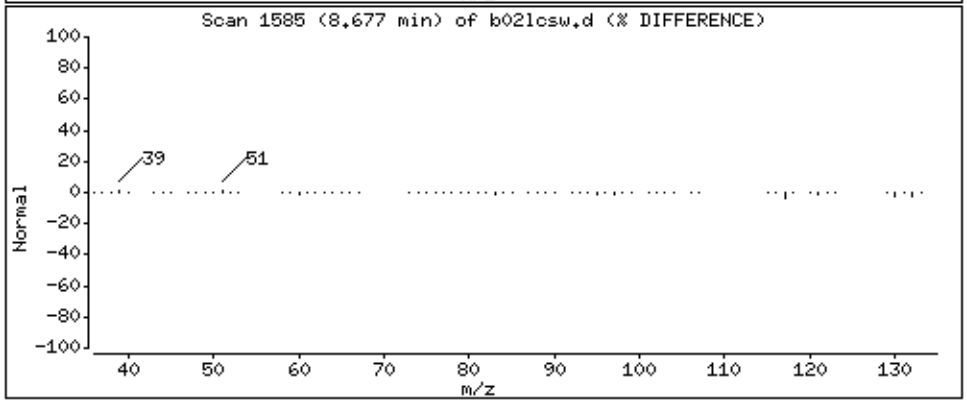












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b\b02lcsw.d

Date : 20-MAR-2016 15:02

Client ID: LCSw,117024:5

Instrument: 50mv1b.i

Sample Info: 1501724,117024:5

Purge Volume: 5.0

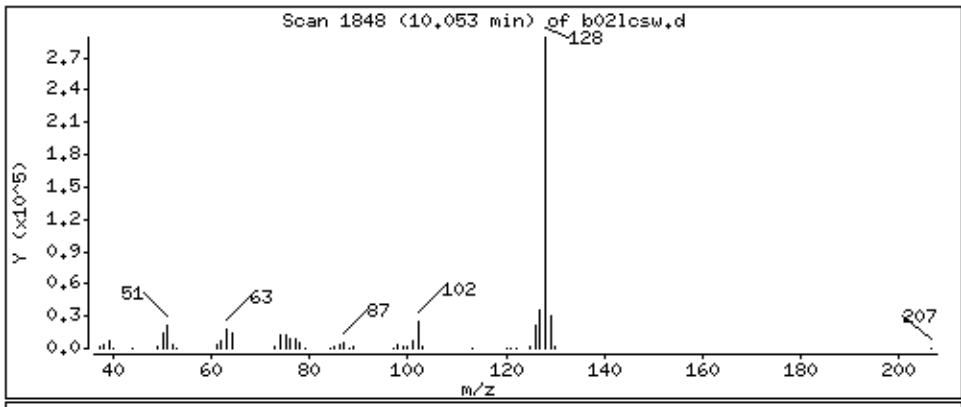
Operator: grm

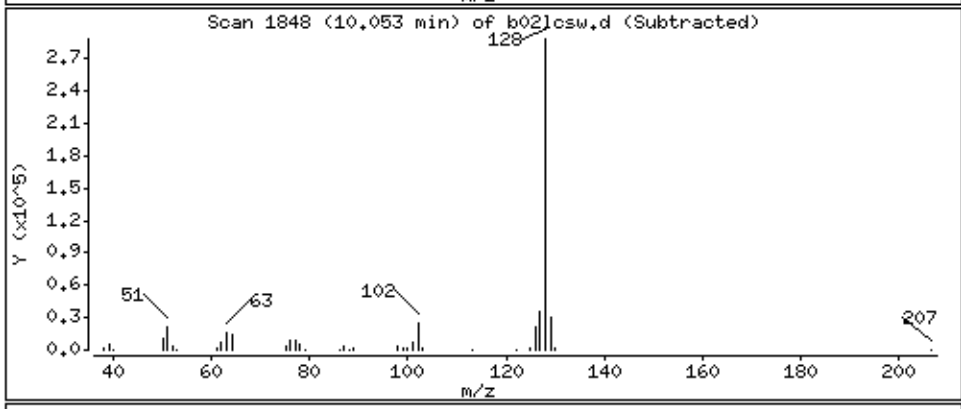
Column phase: DB-624

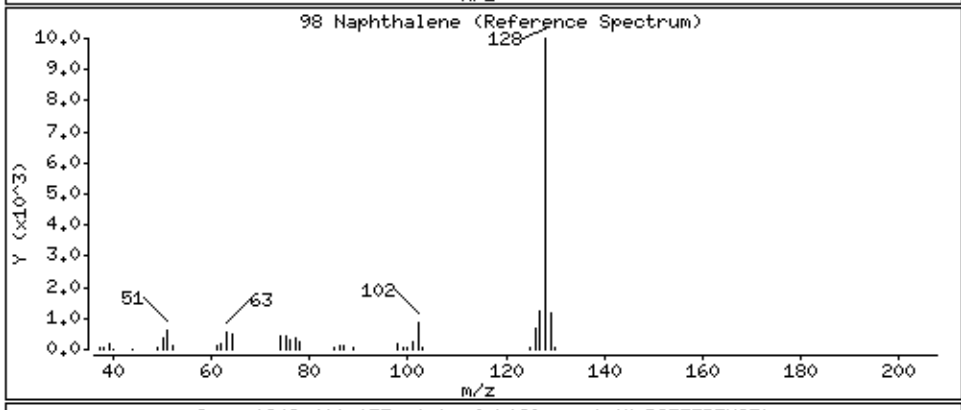
Column diameter: 0.18

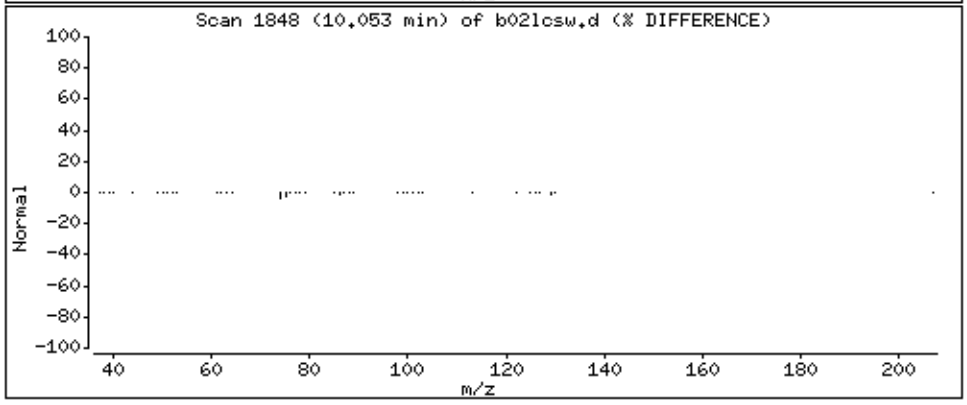
98 Naphthalene

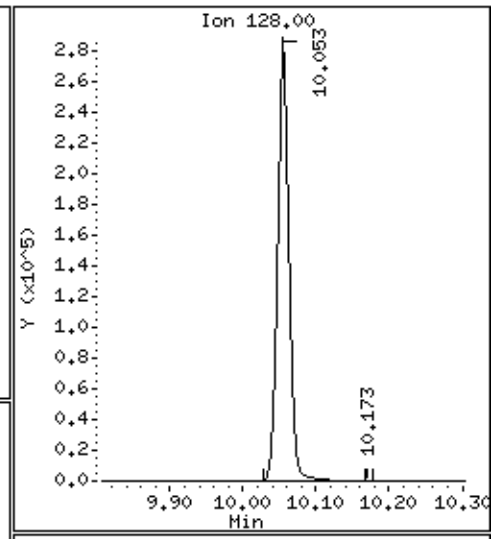
Concentration: 51.6 ppb

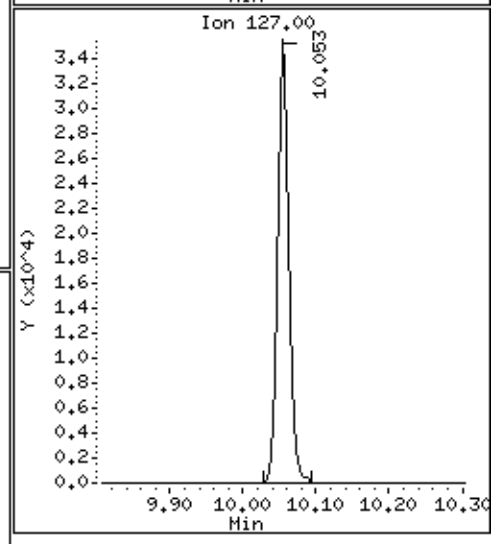












Data File: \\192.168.50.6\chem\50mv1b.i\b032016.b/b02lcsw.d
Injection Date: 20-MAR-2016 15:02
Instrument: 50mv1b.i
Lab Sample ID: 1501724,117024:5
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/00b.d	rinse	L/	SAMPLE	1	<2	b8260_a_c/all	3/15/16	15:08	grm	
1/01b.d	rinse	L/	SAMPLE	1	<2	b8260_a_c/all	3/15/16	16:00	grm	
1/b00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/15/16	17:27	grm	✓
1/b01cal.d	8260-CAL1,117040	L/87939	CALIB_1	1	<2	b8260_a_c/all	3/15/16	18:01	grm	
1/b02cal.d	8260-CAL2,117041	L/87939	CALIB_2	1	<2	b8260_a_c/all	3/15/16	18:36	grm	
1/b03cal-mqc.d	5 ppb mqc	L/87939	MQC	1	<2	b8260_a_c/all	3/15/16	19:11	grm	✓
1/b03cal.d	8260-CAL3,117042	L/87939	CALIB_3	1	<2	b8260_a_c/all	3/15/16	19:11	grm	
1/b04cal.d	8260-CAL4,117043	L/87939	CALIB_4	1	<2	b8260_a_c/all	3/15/16	19:46	grm	
1/b05cal.d	8260-CAL5,117044	L/87939	CALIB_5	1	<2	b8260_a_c/all	3/15/16	20:21	grm	
1/b06cal.d	8260-CAL6,117045	L/87939	CALIB_6	1	<2	b8260_a_c/all	3/15/16	20:56	grm	
1/b07cal.d	8260-CAL7,117046	L/87939	CALIB_7	1	<2	b8260_a_c/all	3/15/16	21:31	grm	
1/b08cal.d	8260-CAL8,117047	L/87939	CALIB_8	1	<2	b8260_a_c/all	3/15/16	22:06	grm	
1/b09.d	rinse	L/	SAMPLE	1	<2	b8260_a_c/all	3/15/16	22:41	grm	
1/b10icv.d	8260-ICV,117048:	L/87939	ICV	1	<2	b8260_a_c/all	3/15/16	23:17	grm	✓
1/d00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/15/16	23:52	grm	✓
1/d01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/16/16	00:27	grm	✓ Passes full list
1/d02lcss.d	LCSs,117024:5	S/	LCS	1		b8260_a_c/8260	3/16/16	01:02	grm	Sand Lot: 107503 ✓
1/d03lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/16/16	01:38	grm	✓
1/d04mbs.d	MBs	S/	BLANK	1		b8260_a_c/all	3/16/16	02:13	grm	Sand Lot: 107503 ✓
1/d05mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/16/16	02:48	grm	✓
1/d06.d	50140107001	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	03:23	grm	
1/d07.d	50140107002	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	03:58	grm	pre 50X
1/d08.d	50140107004	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	04:33	grm	
1/d09.d	50140107005	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	05:08	grm	pre 50X
1/d10.d	50140107006	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	05:43	grm	pre 50X
1/d11.d	50140107010	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	06:18	grm	pre 50X ⊘
1/d12.d	50140107012	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	06:53	grm	pre 100X 50X, 250X
1/d13.d	50140107013	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	07:28	grm	pre 1.1x c/a?
1/d14.d	50140107015	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	08:03	grm	pre 50X
1/d15.d	50140107018	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	08:38	grm	pre 1.1x c/a?
1/d16.d	50140107019	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	09:13	grm	
1/d17.d	50140107020	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	09:48	grm	
1/d18.d	50140107011	S/87936	SAMPLE	1		b8260_a_c/all	3/16/16	10:24	grm	pre 50X

Comments: All water samples have a pH below 2 unless otherwise noted. ✓ (M) 3-16-16

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:25 03/16/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot:
Tune std: _____

Method:

Surr. lot: 116824:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d19.d	50140107021	L/87937	SAMPLE	1	<2	b8260_a_c/all	3/16/16	10:59	grm	mr 1.1% c10
1/d20.d	50139566006x10.1	L/87886	SAMPLE	10.1	<2	b8260_a_c/all	3/16/16	11:34	grm	
1/d21.d	rinse	L/	SAMPLE	1	<2	b8260_a_c/all	3/16/16	12:09	grm	

(NP) 3-16-16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:25 03/16/2016

Page: 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/00a.d	rinse	L/	SAMPLE	1	<2	a8260_a_c/all	3/15/16	14:50	grm	
1/01a.d	rinse	L/	SAMPLE	1	<2	a8260_a_c/all	3/15/16	15:42	grm	
1/a00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/15/16	17:09	grm	✓
1/a01cal.d	8260-CAL1,117040	L/87938	CALIB_1	1	<2	a8260_a_c/all	3/15/16	17:44	grm	
1/a02cal.d	8260-CAL2,117041	L/87938	CALIB_2	1	<2	a8260_a_c/all	3/15/16	18:19	grm	
1/a03cal-mqc.d	5 ppb mqc	L/87938	MQC	1	<2	a8260_a_c/all	3/15/16	18:54	grm	✓
1/a03cal.d	8260-CAL3,117042	L/87938	CALIB_3	1	<2	a8260_a_c/all	3/15/16	18:54	grm	
1/a04cal.d	8260-CAL4,117043	L/87938	CALIB_4	1	<2	a8260_a_c/all	3/15/16	19:29	grm	
1/a05cal.d	8260-CAL5,117044	L/87938	CALIB_5	1	<2	a8260_a_c/all	3/15/16	20:04	grm	
1/a06cal.d	8260-CAL6,117045	L/87938	CALIB_6	1	<2	a8260_a_c/all	3/15/16	20:39	grm	
1/a07cal.d	8260-CAL7,117046	L/87938	CALIB_7	1	<2	a8260_a_c/all	3/15/16	21:14	grm	
1/a08cal.d	8260-CAL8,117047	L/87938	CALIB_8	1	<2	a8260_a_c/all	3/15/16	21:49	grm	
1/a09.d	rinse	L/	SAMPLE	1	<2	a8260_a_c/all	3/15/16	22:24	grm	
1/a10icv.d	8260-ICV,117048:	L/87938	ICV	1	<2	a8260_a_c/all	3/15/16	22:59	grm	x several ↓
1/c00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/15/16	23:34	grm	✓
1/c01ccv.d	8260-CCV,117049:	L/87938	CCALIB_6	1	7	a8260_a_c/all	3/16/16	00:09	grm	✓ Passes full list
1/c02icv.d	8260-ICV,117048:	L/87938	ICV	1	<2	a8260_a_c/all	3/16/16	00:44	grm	✓ LCS used as ICV
1/c02lcss.d	LCSs,117024:5	S/	LCS	1		a8260_a_c/8260	3/16/16	00:44	grm	Sand Lot: 107503 ✓
1/c03lcsm.d	LCSm,117024:5	S/	LCS	1		a8260_a_c/8260	3/16/16	01:20	grm	Sand Lot: 107503 x several ↓
1/c04mbs.d	MBs	S/	BLANK	1		a8260_a_c/all	3/16/16	01:55	grm	Sand Lot: 107503 ✓
1/c05mbm.d	MBm	S/	BLANK	1		a8260_a_c/all	3/16/16	02:30	grm	Sand Lot: 107503 ✓ chlorinated
1/c06.d	50140243005x1.1	S/87894	SAMPLE	~~1.1~~ 1		a8260_a_c/all	3/16/16	03:05	grm	
1/c07.d	50140243006	S/87935	SAMPLE	1		a8260_a_c/all	3/16/16	03:40	grm	
1/c08.d	1497844,117024:5	S/87935	MS	1		a8260_a_c/8260	3/16/16	04:15	grm	
1/c09.d	1497845,117024:5	S/87935	MSD	1		a8260_a_c/8260	3/16/16	04:50	grm	
1/c10.d	50140243008	S/87935	SAMPLE	1		a8260_a_c/all	3/16/16	05:25	grm	
1/c11.d	50140107003x50	S/87935	SAMPLE	50		a8260_a_c/all	3/16/16	06:00	grm	D4 w/ 50.1x
1/c12.d	50140107007x50	S/87935	SAMPLE	50		a8260_a_c/all	3/16/16	06:35	grm	D4
1/c13.d	50140107008	S/87935	SAMPLE	1		a8260_a_c/all	3/16/16	07:10	grm	w/ 50x
1/c14.d	50140107009x50	S/87935	SAMPLE	50		a8260_a_c/all	3/16/16	07:45	grm	D4
1/c15.d	50140107009x500	S/87935	SAMPLE	500		a8260_a_c/all	3/16/16	08:20	grm	
1/c16.d	50140107014x50	S/87935	SAMPLE	50		a8260_a_c/all	3/16/16	08:55	grm	D4
1/c17.d	50140107016x100	S/87935	SAMPLE	100		a8260_a_c/all	3/16/16	09:31	grm	D4

Comments: All water samples have a pH below 2 unless otherwise noted. ✓ MB 3-16-16

File Path 1: \\192.168.50.6\chem\50mv1a.i\a031516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:55 03/16/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c18.d	50140107016x1000	S/87935	SAMPLE	1000		a8260_a_c/all	3/16/16	10:06	grm	
1/c19.d	50140107017x50	S/87935	SAMPLE	50		a8260_a_c/all	3/16/16	10:41	grm	DH
1/c20lcsm.d	LCSm,117024:5	S/	LCS	1		a8260_a_c/8260	3/16/16	11:16	grm	Sand Lot: 107503
1/c21.d	rinse	L/	SAMPLE	1	<2	a8260_a_c/all	3/16/16	11:51	grm	

3.16.16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1a.i\a031516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:55 03/16/2016 Page: 2

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/16/16	12:40	grm	-
1/a01ccv.d	8260-CCV,117049:	L/87938	CCALIB_6	1	7	a8260_a_c/all	3/16/16	13:15	grm	- Passes All list
1/a02lcsw.d	LCSw,117024:5	L/	LCS	1	7	a8260_a_c/8260	3/16/16	13:51	grm	-
1/a03lcss.d	LCSs,117024:5	S/	LCS	1		a8260_a_c/8260	3/16/16	14:26	grm	Sand Lot: 107503 -
1/a04mbw.d	MBw	L/	BLANK	1	7	a8260_a_c/all	3/16/16	15:01	grm	-
1/a05mbs.d	MBs	S/ ~~87892~~	BLANK	1		a8260_a_c/all	3/16/16	15:36	grm	Sand Lot: 107503 -
1/a06.d	50140243007x1.1	S/~~87894~~	SAMPLE	~~1.1~~ 1		a8260_a_c/all	3/16/16	16:11	grm	
1/a07.d	50139788008	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	16:47	grm	
1/a08.d	50139788009	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	17:22	grm	confirmed BL
1/a09.d	50139788010	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	17:57	grm	
1/a10.d	50139892001	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	18:32	grm	
1/a11.d	50139892002	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	19:07	grm	
1/a12.d	50139788012	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	19:43	grm	
1/a13.d	50139788014	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	20:18	grm	
1/a14.d	50139788015	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	20:53	grm	
1/a15.d	50139788016	S/87892	SAMPLE	1		a8260_a_c/all	3/16/16	21:28	grm	
1/a16.d	rinse	L/	SAMPLE	1	<2	a8260_a_c/all	3/16/16	22:04	grm	
1/a17.d	50140326003	L/87984	SAMPLE	1	<2	a8260_a_c/ust	3/16/16	22:39	grm	
1/a18.d	50140246019	L/87984	SAMPLE	1	<2	a8260_a_c/ust	3/16/16	23:14	grm	
1/a19.d	50140246020	L/87984	SAMPLE	1	<2	a8260_a_c/ust	3/16/16	23:49	grm	
1/a20.d	50140107021x1.1	L/87937	SAMPLE	~~1.1~~ 1	<2	a8260_a_c/all	3/17/16	00:24	grm	confirmed MeCh
1/c00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/17/16	00:59	grm	-
1/c01ccv.d	8260-CCV,117049:	L/87938	CCALIB_6	1	7	a8260_a_c/all	3/17/16	01:35	grm	- Passes full list
1/c02lcsw.d	LCSw,117024:5	L/	LCS	1	7	a8260_a_c/8260	3/17/16	02:10	grm	-
1/c03mbw.d	MBw	L/	BLANK	1	7	a8260_a_c/all	3/17/16	02:45	grm	-
1/c04.d	50140304001	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	03:21	grm	
1/c05.d	50140304002	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	03:56	grm	
1/c06.d	50140304003x20	L/87985	SAMPLE	20	<2	a8260_a_c/ust	3/17/16	04:31	grm	D4
1/c07.d	50140304004	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	05:06	grm	
1/c08.d	50140352001	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	05:41	grm	
1/c09.d	50140352002x5	L/87985	SAMPLE	5	<2	a8260_a_c/ust	3/17/16	06:17	grm	D4
1/c10.d	50140352003	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	06:52	grm	
1/c11.d	50140352004x10	L/87985	SAMPLE	10	<2	a8260_a_c/ust	3/17/16	07:27	grm	D4

Comments: All water samples have a pH below 2 unless otherwise noted. - (2) 3-17-16

File Path 1: \\192.168.50.6\chem\50mv1a.i\a031616.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:40 03/17/2016

Notes: Sequence stopped due to PC crash.

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c12.d	50140352005	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	08:03	grm	
1/c13.d	50140352006	L/87985	SAMPLE	1	<2	a8260_a_c/ust	3/17/16	08:38	grm	

3-17-16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1a.i\a031616.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 10:40 03/17/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/00b.d	awake	L/87938	SAMPLE	1	<2	b8260_a_c/all	3/17/16	11:05	grm	
1/b00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/17/16	11:40	grm	✓
1/b01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/17/16	12:15	grm	✓ Passes All list
1/b02lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/17/16	12:51	grm	✓
1/b03mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/17/16	13:26	grm	✓
1/b04mbm.d	MBm	S/	BLANK	1		b8260_a_c/all	3/17/16	14:01	grm	Sand Lot: 107503 ✓
1/b05.d	50140430001x10	L/87990	SAMPLE	10	<2	b8260_a_c/all	3/17/16	14:36	grm	
1/b06.d	1500659,117024:5	L/88051	MS	1	<2	b8260_a_c/ust	3/17/16	15:11	grm	
1/b07.d	1500660,117024:5	L/88051	MSD	1	<2	b8260_a_c/ust	3/17/16	15:46	grm	
1/b08.d	50140384011	L/88051	SAMPLE	1	<2	b8260_a_c/ust	3/17/16	16:21	grm	pH>2 HS
1/b09.d	50140384016	L/88051	SAMPLE	1	<2	b8260_a_c/ust	3/17/16	16:56	grm	pH>2 HS
1/b10.d	50139829004	L/88051	SAMPLE	1	<2	b8260_a_c/ust	3/17/16	17:31	grm	
1/b11lcsm.d	LCSm,117024:5	S/	LCS	1		b8260_a_c/8260	3/17/16	18:06	grm	Sand Lot: 107503 ✓
1/b12.d	50139718018x25	S/87974	SAMPLE	25		b8260_a_c/all	3/17/16	18:42	grm	D4
1/b13.d	50139718012x100	S/87975	SAMPLE	100		b8260_a_c/all	3/17/16	19:17	grm	
1/b14.d	50139718012x1000	S/87975	SAMPLE	1000		b8260_a_c/all	3/17/16	19:52	grm	not used
1/b15.d	50139718011x100	S/88031	SAMPLE	100		b8260_a_c/all	3/17/16	20:27	grm	D4
1/b16.d	50139718011x1000	S/88031	SAMPLE	1000		b8260_a_c/all	3/17/16	21:02	grm	not used
1/b17.d	50140212003x5	L/88039	SAMPLE	5	<2	b8260_a_c/all	3/17/16	21:38	grm	D4
1/b18.d	50140212003x50	L/88039	SAMPLE	50	<2	b8260_a_c/all	3/17/16	22:13	grm	
1/b19.d	50140212004x5	L/88039	SAMPLE	5	<2	b8260_a_c/all	3/17/16	22:48	grm	D4
1/b20.d	50140212004x25	L/88039	SAMPLE	25	<2	b8260_a_c/all	3/17/16	23:23	grm	
1/d00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/17/16	23:58	grm	✓
1/d01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/18/16	00:34	grm	✓ Passes All list
1/d02lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/18/16	01:09	grm	✓
1/d03mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/18/16	01:44	grm	✓
1/d04.d	50140212001	L/88040	SAMPLE	1	<2	b8260_a_c/all	3/18/16	02:20	grm	
1/d05.d	50140212002x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	02:55	grm	D4 we 50x
1/d06.d	50140212005x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	03:30	grm	D4
1/d07.d	50140212005x20	L/88040	SAMPLE	20	<2	b8260_a_c/all	3/18/16	04:05	grm	
1/d08.d	50140212006x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	04:41	grm	D4
1/d09.d	1500386x5,117024	L/88040	MS	5	<2	b8260_a_c/8260	3/18/16	05:16	grm	
1/d10.d	1500387x5,117024	L/88040	MSD	5	<2	b8260_a_c/8260	3/18/16	05:51	grm	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓ (grm) 3-18-16

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031716.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:02 03/18/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d11.d	50140212006x50	L/88040	SAMPLE	50	<2	b8260_a_c/all	3/18/16	06:26	grm	
1/d12.d	50140212007x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	07:02	grm	D4
1/d13.d	50140212007x50	L/88040	SAMPLE	50	<2	b8260_a_c/all	3/18/16	07:37	grm	
1/d14.d	50140212008	L/88040	SAMPLE	1	<2	b8260_a_c/all	3/18/16	08:12	grm	
1/d15.d	50140212009x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	08:47	grm	D4
1/d16.d	50140212009x50	L/88040	SAMPLE	50	<2	b8260_a_c/all	3/18/16	09:22	grm	
1/d17.d	50140212010x5	L/88040	SAMPLE	5	<2	b8260_a_c/all	3/18/16	09:58	grm	D4
1/d18.d	50140212010x25	L/88040	SAMPLE	25	<2	b8260_a_c/all	3/18/16	10:33	grm	
1/d19.d	50140212011x10	L/88040	SAMPLE	10	<2	b8260_a_c/all	3/18/16	11:08	grm	wa/lx o/D NB
1/d20.d	50140212011x50	L/88040	SAMPLE	50	<2	b8260_a_c/all	3/18/16	11:43	grm	not used

3-18-16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031716.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:02 03/18/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/18/16	12:33	grm	-
1/b01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/18/16	13:08	grm	- Passes full list
1/b02lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/18/16	13:43	grm	-
1/b03mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/18/16	14:18	grm	-
1/b04.d	50140212012x20	L/88079	SAMPLE	20	<2	b8260_a_c/all	3/18/16	14:53	grm	D4
1/b05.d	50140212012x500	L/88079	SAMPLE	500	<2	b8260_a_c/all	3/18/16	15:28	grm	
1/b06.d	bp water blank	L/	SAMPLE	1	<2	b8260_a_c/all	3/18/16	16:03	grm	
1/b07.d	50140379035	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	16:39	grm	wa 1.1x on VAP
1/b08.d	50140379017x1.1	L/88029	SAMPLE	1.1	<2	b8260_a_c/all	3/18/16	17:14	grm	
1/b09.d	50140662001	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	17:49	grm	pH>2
1/b10.d	50140662002	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	18:25	grm	
1/b11.d	50140662003	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	19:00	grm	
1/b12.d	50140570006	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	19:35	grm	
1/b13.d	50140570007	L/88079	SAMPLE	1	<2	b8260_a_c/all	3/18/16	20:10	grm	
1/b14.d	bp meoh blank	S/	SAMPLE	1		b8260_a_c/all	3/18/16	20:45	grm	
1/b15.d	50140408001	L/88095	SAMPLE	1	<2	b8260_a_c/all	3/18/16	21:20	grm	
1/b16.d	50140408002	L/88095	SAMPLE	1	<2	b8260_a_c/all	3/18/16	21:55	grm	
1/b17.d	1501375,117024:5	L/88095	MS	1	<2	b8260_a_c/8260	3/18/16	22:30	grm	
1/b18.d	1501376,117024:5	L/88095	MSD	1	<2	b8260_a_c/8260	3/18/16	23:06	grm	
1/b19.d	50140408004	L/88095	SAMPLE	1	<2	b8260_a_c/all	3/18/16	23:41	grm	
1/b20.d	50140408006	L/88095	SAMPLE	1	<2	b8260_a_c/all	3/19/16	00:16	grm	
1/d00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/19/16	00:51	grm	-
1/d01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/19/16	01:26	grm	- Passes full list
1/d02lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/19/16	02:01	grm	-
1/d03mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/19/16	02:37	grm	-
1/d04.d	50140380001x2	L/88096	SAMPLE	2	<2	b8260_a_c/all	3/19/16	03:12	grm	D4
1/d05.d	50140380001x25	L/88096	SAMPLE	25	<2	b8260_a_c/all	3/19/16	03:47	grm	
1/d06.d	50140380002	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	04:22	grm	
1/d07.d	50140380003	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	04:58	grm	wa 1x ST
1/d08.d	50140380004	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	05:33	grm	
1/d09.d	50140380005	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	06:08	grm	
1/d10.d	50140380005x10	L/88096	SAMPLE	10	<2	b8260_a_c/all	3/19/16	06:43	grm	not used
1/d11.d	50140380006	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	07:19	grm	

Comments: All water samples have a pH below 2 unless otherwise noted. - GW 3-20-16

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031816.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:09 03/20/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot:
Tune std: _____

Method:

Surr. lot: 116824:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d12.d	50140380007	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	07:54	grm	
1/d13.d	50140380008	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	08:29	grm	
1/d14.d	50140380008x10	L/88096	SAMPLE	10	<2	b8260_a_c/all	3/19/16	09:04	grm	
1/d15.d	50140380009x2	L/88096	SAMPLE	2	<2	b8260_a_c/all	3/19/16	09:40	grm	D3
1/d16.d	50140380010	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	10:15	grm	re-lix ($)
1/d17.d	50140380010x5	L/88096	SAMPLE	5	<2	b8260_a_c/all	3/19/16	10:50	grm	not used
1/d18.d	50140380011	L/88096	SAMPLE	1	<2	b8260_a_c/all	3/19/16	11:26	grm	
1/d19.d	1501381,117024:5	L/88096	MS	1	<2	b8260_a_c/8260	3/19/16	12:01	grm	
1/d20.d	1501382,117024:5	L/88096	MSD	1	<2	b8260_a_c/8260	3/19/16	12:36	grm	
1/d21.d	rinse	L/	SAMPLE	1	<2	b8260_a_c/all	3/19/16	13:11	grm	

3-20-16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1b.i\b031816.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:09 03/20/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/00a.d	awake	L/	SAMPLE	1	<2	a8260_a_c/all	3/20/16	12:59	grm	
1/a00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/20/16	13:34	grm	-
1/a01ccv.d	8260-CCV,117049:	L/87938	CCALIB_6	1	7	a8260_a_c/all	3/20/16	14:09	grm	- Passes full list
1/a02lcsw.d	1501718,117024:5	L/88106	LCS	1	7	a8260_a_c/all	3/20/16	14:45	grm	-
1/a03mbw.d	MBw	L/88106	BLANK	1	7	a8260_a_c/all	3/20/16	15:20	grm	-
1/a04.d	50140014001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	15:55	grm	
1/a05.d	1501719,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	16:30	grm	
1/a06.d	50139333001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	17:06	grm	re 25x
1/a07.d	1501720,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	17:41	grm	
1/a08.d	50139333002	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	18:16	grm	re 5x
1/a09.d	50140132001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	18:51	grm	
1/a10.d	1501721,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	19:26	grm	
1/a11.d	50140167001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	20:02	grm	
1/a12.d	1501722,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	20:37	grm	
1/a13.d	50140167002	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	21:12	grm	
1/a14.d	50140548001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	21:47	grm	
1/a15.d	1501725,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	22:22	grm	
1/a16.d	50140170001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/20/16	22:57	grm	
1/a17.d	1501726,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/20/16	23:32	grm	
1/a18.d	50140231001	S/88106	SAMPLE	1		a8260_a_c/tclp	3/21/16	00:08	grm	
1/a19.d	1501727,117024:5	S/88106	MS	1		a8260_a_c/tclp	3/21/16	00:43	grm	
1/a20.d	50140212002x50	L/88040	SAMPLE	50	<2	a8260_a_c/all	3/21/16	01:18	grm	
1/c00bfb.d	8260-TUNE,117039	L/87938	BFB	1	7	bfb/all	3/21/16	01:53	grm	-
1/c01ccv.d	8260-CCV,117049:	L/87938	CCALIB_6	1	7	a8260_a_c/all	3/21/16	02:29	grm	- Passes full list
1/c02lcsw.d	LCSw,117024:5	L/	LCS	1	7	a8260_a_c/8260	3/21/16	03:04	grm	-
1/c03mbw.d	MBw	L/	BLANK	1	7	a8260_a_c/all	3/21/16	03:39	grm	-
1/c04.d	50140379043	L/88108	SAMPLE	1	<2	a8260_a_c/all	3/21/16	04:15	grm	OH VAP
1/c05.d	1501744,117024:5	L/88108	MS	1	<2	a8260_a_c/8260	3/21/16	04:50	grm	
1/c06.d	1501745,117024:5	L/88108	MSD	1	<2	a8260_a_c/8260	3/21/16	05:25	grm	
1/c07.d	50140379043x10	L/88108	SAMPLE	10	<2	a8260_a_c/all	3/21/16	06:01	grm	
1/c08.d	50140379044x5	L/88108	SAMPLE	5	<2	a8260_a_c/all	3/21/16	06:36	grm	DH
1/c09.d	50140379044x50	L/88108	SAMPLE	50	<2	a8260_a_c/all	3/21/16	07:11	grm	
1/c10.d	50140379045	L/88108	SAMPLE	1	<2	a8260_a_c/all	3/21/16	07:46	grm	

Comments: All water samples have a pH below 2 unless otherwise noted. - (M) 3.21.16

File Path 1: \\192.168.50.6\chem\50mv1a.i\a032016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:04 03/21/2016

Page: 1

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
Misc. Prep Info [S]: 107503
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c11.d	50140379045x10	L/88108	SAMPLE	10	<2	a8260_a_(C)all	3/21/16	08:21	grm	not used OH VAP
1/c12.d	50140379046	L/88108	SAMPLE	1	<2	a8260_a_(C)all	3/21/16	08:56	grm	
1/c13.d	50140379046x10	L/88108	SAMPLE	10	<2	a8260_a_(C)all	3/21/16	09:31	grm	not used
1/c14.d	50140379047x5	L/88108	SAMPLE	5	<2	a8260_a_(C)all	3/21/16	10:06	grm	D4
1/c15.d	50140379047x100	L/88108	SAMPLE	100	<2	a8260_a_(C)all	3/21/16	10:42	grm	
1/c16.d	50140379048x5	L/88108	SAMPLE	5	<2	a8260_a_(C)all	3/21/16	11:17	grm	D4
1/c17.d	50140379048x50	L/88108	SAMPLE	50	<2	a8260_a_(C)all	3/21/16	11:52	grm	

(H) 3-21-16

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv1a.i\a032016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 13:04 03/21/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/00b.d	awake	L/	SAMPLE	1	<2	b8260_a_c/all	3/20/16	13:17	grm	
1/b00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/20/16	13:52	grm	-
1/b01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/20/16	14:27	grm	- Passed full list
1/b02lcsw.d	1501724,117024:5	L/88107	LCS	1	7	b8260_a_c/8260	3/20/16	15:02	grm	-
1/b03mbw.d	MBw	L/88107	BLANK	1	7	b8260_a_c/all	3/20/16	15:38	grm	-
1/b04.d	50140379066	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/20/16	16:13	grm	pH>2 OH VAP
1/b05.d	50140379036x10	L/88107	SAMPLE	10	<2	b8260_a_c/all	3/20/16	16:48	grm	D4
1/b06.d	50140379036x50	L/88107	SAMPLE	50	<2	b8260_a_c/all	3/20/16	17:23	grm	
1/b07.d	50140379037x10	L/88107	SAMPLE	10	<2	b8260_a_c/all	3/20/16	17:59	grm	D4
1/b08.d	50140379037x50	L/88107	SAMPLE	50	<2	b8260_a_c/all	3/20/16	18:34	grm	
1/b09.d	50140379038	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/20/16	19:09	grm	matrix
1/b10.d	1501728,117024:5	L/88107	MS	1	<2	b8260_a_c/8260	3/20/16	19:44	grm	
1/b11.d	1501729,117024:5	L/88107	MSD	1	<2	b8260_a_c/8260	3/20/16	20:19	grm	
1/b12.d	50140379039	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/20/16	20:54	grm	
1/b13.d	50140379039x10	L/88107	SAMPLE	10	<2	b8260_a_c/all	3/20/16	21:30	grm	not used
1/b14.d	50140379040x10	L/88107	SAMPLE	10	<2	b8260_a_c/all	3/20/16	22:05	grm	D4
1/b15.d	50140379040x100	L/88107	SAMPLE	100	<2	b8260_a_c/all	3/20/16	22:40	grm	re 1000X
1/b16.d	50140379041	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/20/16	23:15	grm	
1/b17.d	50140379041x10	L/88107	SAMPLE	10	<2	b8260_a_c/all	3/20/16	23:50	grm	
1/b18.d	50140379042	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/21/16	00:25	grm	
1/b19.d	50140379042x20	L/88107	SAMPLE	20	<2	b8260_a_c/all	3/21/16	01:01	grm	
1/b20.d	50140212011	L/88107	SAMPLE	1	<2	b8260_a_c/all	3/21/16	01:36	grm	
1/d00bfb.d	8260-TUNE,117039	L/87939	BFB	1	7	bfb/all	3/21/16	02:11	grm	-
1/d01ccv.d	8260-CCV,117049:	L/87939	CCALIB_6	1	7	b8260_a_c/all	3/21/16	02:47	grm	- see notes
1/d02lcsw.d	LCSw,117024:5	L/	LCS	1	7	b8260_a_c/8260	3/21/16	03:22	grm	-
1/d03mbw.d	MBw	L/	BLANK	1	7	b8260_a_c/all	3/21/16	03:57	grm	-
1/d04.d	50140379049	L/88109	SAMPLE	1	<2	b8260_a_c/all	3/21/16	04:33	grm	OH VAP
1/d05.d	50140379049x10	L/88109	SAMPLE	10	<2	b8260_a_c/all	3/21/16	05:08	grm	
1/d06.d	50140379050	L/88109	SAMPLE	1	<2	b8260_a_c/all	3/21/16	05:43	grm	
1/d07.d	50140379050x10	L/88109	SAMPLE	10	<2	b8260_a_c/all	3/21/16	06:18	grm	
1/d08.d	50140379051x5	L/88109	SAMPLE	5	<2	b8260_a_c/all	3/21/16	06:53	grm	D4
1/d09.d	50140379051x250	L/88109	SAMPLE	250	<2	b8260_a_c/all	3/21/16	07:29	grm	
1/d10.d	50140379052x5	L/88109	SAMPLE	5	<2	b8260_a_c/all	3/21/16	08:04	grm	D4
1/d11.d	50140379052x250	L/88109	SAMPLE	250	<2	b8260_a_c/all	3/21/16	08:39	grm	

Comments: All water samples have a pH below 2 unless otherwise noted. - MJ 3-21-16

File Path 1: \\192.168.50.6\chem\50mv1b.i\b032016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:31 03/21/2016

Notes: Bromomethane, chloromethane, & iodomethane ↓ in 2nd CCV. All OH VAP samples will be reanalyzed for these compounds.

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv1b.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
ISTD lot: Surr. lot: 116824:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d12.d	50140379053	L/88109	SAMPLE	1	<2	b8260_a_c/all	3/21/16	09:14	grm	OK VAP
1/d13.d	50140379053x10	L/88109	SAMPLE	10	<2	b8260_a_c/all	3/21/16	09:49	grm	
1/d14.d	50140379054	L/88109	SAMPLE	1	<2	b8260_a_c/all	3/21/16	10:24	grm	
1/d15.d	1501748,117024:5	L/88109	MS	1	<2	b8260_a_c/8260	3/21/16	11:00	grm	
1/d16.d	1501749,117024:5	L/88109	MSD	1	<2	b8260_a_c/8260	3/21/16	11:35	grm	
1/d17.d	50140379054x5	L/88109	SAMPLE	5	<2	b8260_a_c/all	3/21/16	12:10	grm	

(KB) 3-21-16

Comments: All water samples have a pH below 2 unless otherwise noted. ✓

File Path 1: \\192.168.50.6\chem\50mv1b.i\b032016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:31 03/21/2016

RACER Trust
Former GM Delco Plant 5

Data Review

KOKOMO, INDIANA

Volatile Organic Compounds Analyses

SDG #50140212

Analyses Performed By:
Pace Analytical
Indianapolis, Indiana

Report #25493R
Review Level: Tier III
Project: IN000884.2016.00006

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #50140212 for samples collected in association with the RACER Trust site in Kokomo, Indiana. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
						VOC	MISC
50140212	TB-01(030916)	50140212001	Water	03/09/2016		X	
	MW-0101-S1U(030916)	50140212002	Water	03/09/2016		X	
	MW-0102-S1U(030916)	50140212003	Water	03/09/2016		X	
	MW-0504-S1(030916)	50140212004	Water	03/09/2016		X	
	MW-0517-S1(030916)	50140212005	Water	03/09/2016		X	
	MW-0621-S1(030916)	50140212006	Water	03/09/2016		X	
	FD-01(030916)	50140212007	Water	03/09/2016	MW-0517-S1(030916)	X	
	EB-01(030916)	50140212008	Water	03/09/2016		X	
	MW-0704-S1(030916)	50140212009	Water	03/09/2016		X	
	MW-0612-S1(030916)	50140212010	Water	03/09/2016		X	
	MW-0606-S1(030916)	50140212011	Water	03/09/2016		X	
	MW-0622-S1(030916)	50140212012	Water	03/09/2016		X	

Note:

The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample MW-0621-S1(030916).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No other qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
All sample locations	ICV %RSD	1,2-Dibromo-3-chloropropane	16.2%
		1,2-Dichlorobenzene	19.2%
		trans-1,3-Dichloropropene	15.1%
		Methylene Chloride	16.7%
MW-0102-S1U(030916) MW-0504-S1(030916)	CCV %D	Bromomethane	-68.1%
		Chloroethane	24.3%
		Chloromethane	-29.8%
		Methylcyclohexane	20.7%
TB-01(030916) MW-0101-S1U(030916) MW-0517-S1(030916) MW-0621-S1(030916) FD-01(030916) EB-01(030916) MW-0704-S1(030916) MW-0612-S1(030916) MW-0606-S1(030916)	CCV %D	Bromomethane	-33.2%
MW-0622-S1(030916)	CCV %D	Bromomethane	-26.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-0517-S1(030916)/ FD-01(030916)	trans-1,2-Dichloroethene	74.3	72.0	3.1%
	cis-1,2-Dichloroethene	600	601	0.2%
	Trichloroethene	3570	3720	4.1%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0101-S1U(030916)	Trichloroethene	--	6560 D	6560 D
MW-0102-S1U(030916)	Trichloroethene	--	2360 D	2360 D
MW-0504-S1(030916)	Trichloroethene	--	1820 D	1820 D
MW-0517-S1(030916)	Trichloroethene	--	3570 D	3570 D
MW-0621-S1(030916)	Trichloroethene	--	3030 D	3030 D
FD-01(030916)	Trichloroethene	--	3720 D	3720 D
MW-0704-S1(030916)	Trichloroethene	--	1370 D	1370 D
MW-0612-S1(030916)	Trichloroethene	--	2380 D	2380 D
MW-0606-S1(030916)	cis-1,2-Dichloroethene	--	329 D	329 D
	Trichloroethene	--	1960 D	1960 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0622-S1(030916)	Trichloroethene	--	9610 D	9610 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X	X		
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X	X		
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Validation Performed By: Andrew Korycinski

Signature:

Date: April 29, 2016

Peer Review: Dennis Capria

Date: May 4, 2016

CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1927531

Section A Required Client Information:

Company: ARCADIS
Address: 132 E Washington St Indianapolis, IN 46204
Email To: Sarah.Jonker
Phone: 317.231.6500 Fax:
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Monica Heintz, Matt Griles
Purchase Order No.: IN000884.2016
Project Name: Race Trust - Kokomo
Project Number: IN000884.2016

Section C Invoice Information:

Attention: Accts. Payable
Company Name:
Address: Highlands Ranch, CO.
Pace Quote Reference:
Pace Project Manager: Donna Snyder
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes — MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01 (030916)	WT	G	—	—	3-9-16	0800		3				X						X		50140212 KJ
2	MW-0101-SLU (030916)			—	—		1640		3				X						X		001
3	MW-0102-SLU (030916)			—	—		1041		3				X						X		002
4	MW-0504-SL (030916)			—	—		1235		3				X						X		003
5	MW-0517-SL (030916)			—	—		1545		3				X						X		004
6	MW-0621-SL (030916)			—	—		1409		9				X						X		005
7	FD-01 (030916)			—	—		—		3				X						X		MS/MSD 006
8	EB-01 (030916)			—	—		1250		3				X						X		007
9																					008
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / ARCADIS	3/10/16	0800	Sarah Jonker / ARCADIS	3/10/16	0800				
	Sarah Jonker / ARCADIS	3/10/16	1215	[signature]	3/10/16	1215	1-5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/9/16

Temp In °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1927532

Section A Required Client Information:

Company: ARCADIS
Address: 132 E. WASHINGTON
Email To: saran.jonker@arcadis.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: SARAH JONKER
Copy To: MATT GRILES
MONICA HEINTZ
Purchase Order No.:
Project Name: RACER TRUST
Project Number: IN000884.2016

Section C Invoice Information:

Attention: ACCOUNTS PAY
Company Name:
Address: HIGHLANDS RANCH, CO
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260D VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TRIP BLANK	WT	G			3.9.16	0900		3	X								X		30140212 KJ
2	MW-0704-S1(030916)	WT	G				1040		3				X					X		009
3	MW-0612-S1(030916)	WT	G				1345		3				X					X		010
4	MW-0606-S1(030916)	WT	G				1240		3				X					X		011
5	MW-622-S1(030916)	WT	G				1550		3				X					X		012
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / ARCADIS	3/9/16	1700	[signature] ARCADIS	3/9/16	1700				
	[signature] / ARCADIS	3/10/16	0800	Sarah Jonker ARCADIS	3/10/16	0800				
	Sarah Jonker / ARCADIS	3/10/16	1215	[signature]	3/10/16	1215	1.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LAUREN FRE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 03/09/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Racer Kokomo
Pace Project No.: 50140212

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-18-16
2d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-20-16
3d	MtBE ND at an estimated RL of 40 ug/L based on the MDL. grm 3-20-16
C0	Result confirmed by second analysis.
D4	Sample was diluted due to the presence of high levels of target analytes.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: TB-01(030916) **Lab ID: 50140212001** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		03/18/16 02:20	67-64-1	
Benzene	ND		ug/L	5.0	1		03/18/16 02:20	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		03/18/16 02:20	75-27-4	
Bromoform	ND		ug/L	5.0	1		03/18/16 02:20	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		03/18/16 02:20	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		03/18/16 02:20	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		03/18/16 02:20	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		03/18/16 02:20	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		03/18/16 02:20	108-90-7	
Chloroethane	ND		ug/L	5.0	1		03/18/16 02:20	75-00-3	
Chloroform	ND		ug/L	5.0	1		03/18/16 02:20	67-66-3	
Chloromethane	ND		ug/L	5.0	1		03/18/16 02:20	74-87-3	
Cyclohexane	ND		ug/L	100	1		03/18/16 02:20	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		03/18/16 02:20	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		03/18/16 02:20	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		03/18/16 02:20	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	5.0	1		03/18/16 02:20	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		03/18/16 02:20	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		03/18/16 02:20	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		03/18/16 02:20	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		03/18/16 02:20	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		03/18/16 02:20	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		03/18/16 02:20	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		03/18/16 02:20	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		03/18/16 02:20	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		03/18/16 02:20	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		03/18/16 02:20	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		03/18/16 02:20	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		03/18/16 02:20	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		03/18/16 02:20	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		03/18/16 02:20	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		03/18/16 02:20	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		03/18/16 02:20	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		03/18/16 02:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		03/18/16 02:20	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		03/18/16 02:20	1634-04-4	
Styrene	ND		ug/L	5.0	1		03/18/16 02:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		03/18/16 02:20	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		03/18/16 02:20	127-18-4	
Toluene	ND		ug/L	5.0	1		03/18/16 02:20	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		03/18/16 02:20	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		03/18/16 02:20	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		03/18/16 02:20	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		03/18/16 02:20	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		03/18/16 02:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		03/18/16 02:20	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		03/18/16 02:20	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: TB-01(030916) **Lab ID: 50140212001** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/18/16 02:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		03/18/16 02:20	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	1		03/18/16 02:20	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		03/18/16 02:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0101-S1U(030916) **Lab ID: 50140212002** Collected: 03/09/16 16:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/18/16 02:55	67-64-1	
Benzene	ND		ug/L	25.0	5		03/18/16 02:55	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/18/16 02:55	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/18/16 02:55	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/18/16 02:55	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/18/16 02:55	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/18/16 02:55	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/18/16 02:55	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/18/16 02:55	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/18/16 02:55	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/18/16 02:55	67-66-3	
Chloromethane	ND		ug/L	25.0	5		03/18/16 02:55	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/18/16 02:55	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/18/16 02:55	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/18/16 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/18/16 02:55	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/18/16 02:55	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 02:55	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 02:55	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/18/16 02:55	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/18/16 02:55	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/18/16 02:55	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/18/16 02:55	75-35-4	
cis-1,2-Dichloroethene	**1020**		ug/L	25.0	5		03/18/16 02:55	156-59-2	
trans-1,2-Dichloroethene	**62.0**		ug/L	25.0	5		03/18/16 02:55	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/18/16 02:55	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/18/16 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/18/16 02:55	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/18/16 02:55	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/18/16 02:55	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/18/16 02:55	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/18/16 02:55	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/18/16 02:55	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/18/16 02:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/18/16 02:55	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/18/16 02:55	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/18/16 02:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/18/16 02:55	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/18/16 02:55	127-18-4	
Toluene	ND		ug/L	25.0	5		03/18/16 02:55	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/18/16 02:55	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/18/16 02:55	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/18/16 02:55	79-00-5	
Trichloroethene	**6560**	D	ug/L	250	50		03/21/16 01:18	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/18/16 02:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/18/16 02:55	76-13-1	
Vinyl chloride	**59.3**		ug/L	10.0	5		03/18/16 02:55	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0101-S1U(030916) **Lab ID: 50140212002** Collected: 03/09/16 16:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 02:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	5		03/18/16 02:55	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-116	5		03/18/16 02:55	460-00-4	
Toluene-d8 (S)	98	%.	86-110	5		03/18/16 02:55	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0102-S1U(030916) **Lab ID: 50140212003** Collected: 03/09/16 10:41 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/17/16 21:38	67-64-1	
Benzene	ND		ug/L	25.0	5		03/17/16 21:38	71-43-2	1d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/17/16 21:38	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/17/16 21:38	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/17/16 21:38	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/17/16 21:38	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/17/16 21:38	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/17/16 21:38	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/17/16 21:38	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/17/16 21:38	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/17/16 21:38	67-66-3	
Chloromethane	ND	J	ug/L	25.0	5		03/17/16 21:38	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/17/16 21:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/17/16 21:38	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/17/16 21:38	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/17/16 21:38	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/17/16 21:38	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/17/16 21:38	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/17/16 21:38	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/17/16 21:38	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/17/16 21:38	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/17/16 21:38	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/17/16 21:38	75-35-4	
cis-1,2-Dichloroethene	**1010**		ug/L	25.0	5		03/17/16 21:38	156-59-2	
trans-1,2-Dichloroethene	**114**		ug/L	25.0	5		03/17/16 21:38	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/17/16 21:38	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/17/16 21:38	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/17/16 21:38	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/17/16 21:38	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/17/16 21:38	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/17/16 21:38	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/17/16 21:38	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/17/16 21:38	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/17/16 21:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/17/16 21:38	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/17/16 21:38	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/17/16 21:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/17/16 21:38	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/17/16 21:38	127-18-4	
Toluene	ND		ug/L	25.0	5		03/17/16 21:38	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/17/16 21:38	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/17/16 21:38	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/17/16 21:38	79-00-5	
Trichloroethene	**2360**	D	ug/L	250	50		03/17/16 22:13	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/17/16 21:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/17/16 21:38	76-13-1	
Vinyl chloride	**17.0**		ug/L	10.0	5		03/17/16 21:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0102-S1U(030916) **Lab ID: 50140212003** Collected: 03/09/16 10:41 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/17/16 21:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/17/16 21:38	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	5		03/17/16 21:38	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/17/16 21:38	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0504-S1(030916) **Lab ID: 50140212004** Collected: 03/09/16 12:35 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/17/16 22:48	67-64-1	
Benzene	ND		ug/L	25.0	5		03/17/16 22:48	71-43-2	1d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/17/16 22:48	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/17/16 22:48	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/17/16 22:48	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/17/16 22:48	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/17/16 22:48	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/17/16 22:48	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/17/16 22:48	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/17/16 22:48	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/17/16 22:48	67-66-3	
Chloromethane	ND	J	ug/L	25.0	5		03/17/16 22:48	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/17/16 22:48	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/17/16 22:48	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/17/16 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/17/16 22:48	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/17/16 22:48	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/17/16 22:48	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/17/16 22:48	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/17/16 22:48	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/17/16 22:48	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/17/16 22:48	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/17/16 22:48	75-35-4	
cis-1,2-Dichloroethene	**571**		ug/L	25.0	5		03/17/16 22:48	156-59-2	
trans-1,2-Dichloroethene	**92.2**		ug/L	25.0	5		03/17/16 22:48	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/17/16 22:48	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/17/16 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/17/16 22:48	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/17/16 22:48	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/17/16 22:48	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/17/16 22:48	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/17/16 22:48	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/17/16 22:48	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/17/16 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/17/16 22:48	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/17/16 22:48	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/17/16 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/17/16 22:48	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/17/16 22:48	127-18-4	
Toluene	ND		ug/L	25.0	5		03/17/16 22:48	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/17/16 22:48	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/17/16 22:48	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/17/16 22:48	79-00-5	
Trichloroethene	**1820**	D	ug/L	125	25		03/17/16 23:23	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/17/16 22:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/17/16 22:48	76-13-1	
Vinyl chloride	**8.9J**		ug/L	10.0	5		03/17/16 22:48	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0504-S1(030916) **Lab ID: 50140212004** Collected: 03/09/16 12:35 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/17/16 22:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	84-118	5		03/17/16 22:48	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/17/16 22:48	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/17/16 22:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0517-S1(030916) **Lab ID: 50140212005** Collected: 03/09/16 15:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	5		03/18/16 03:30	67-64-1	
Benzene	ND	ug/L	25.0	5		03/18/16 03:30	71-43-2	2d,D4
Bromodichloromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-27-4	
Bromoform	ND	ug/L	25.0	5		03/18/16 03:30	75-25-2	
Bromomethane	ND J	ug/L	25.0	5		03/18/16 03:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	125	5		03/18/16 03:30	78-93-3	
Carbon disulfide	ND	ug/L	50.0	5		03/18/16 03:30	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		03/18/16 03:30	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	108-90-7	
Chloroethane	ND	ug/L	25.0	5		03/18/16 03:30	75-00-3	
Chloroform	ND	ug/L	25.0	5		03/18/16 03:30	67-66-3	
Chloromethane	ND	ug/L	25.0	5		03/18/16 03:30	74-87-3	
Cyclohexane	ND	ug/L	500	5		03/18/16 03:30	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	50.0	5		03/18/16 03:30	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		03/18/16 03:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		03/18/16 03:30	106-93-4	
1,2-Dichlorobenzene	ND J	ug/L	25.0	5		03/18/16 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		03/18/16 03:30	75-35-4	
cis-1,2-Dichloroethene	**600**	ug/L	25.0	5		03/18/16 03:30	156-59-2	
trans-1,2-Dichloroethene	**74.3**	ug/L	25.0	5		03/18/16 03:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		03/18/16 03:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		03/18/16 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	25.0	5		03/18/16 03:30	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		03/18/16 03:30	100-41-4	
2-Hexanone	ND	ug/L	125	5		03/18/16 03:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		03/18/16 03:30	98-82-8	
Methyl acetate	ND	ug/L	250	5		03/18/16 03:30	79-20-9	N2
Methylcyclohexane	ND	ug/L	250	5		03/18/16 03:30	108-87-2	N2
Methylene Chloride	ND J	ug/L	25.0	5		03/18/16 03:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	125	5		03/18/16 03:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	5		03/18/16 03:30	1634-04-4	
Styrene	ND	ug/L	25.0	5		03/18/16 03:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		03/18/16 03:30	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		03/18/16 03:30	127-18-4	
Toluene	ND	ug/L	25.0	5		03/18/16 03:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	5		03/18/16 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		03/18/16 03:30	79-00-5	
Trichloroethene	**3570**	ug/L	100	20		03/18/16 04:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	5		03/18/16 03:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	25.0	5		03/18/16 03:30	76-13-1	
Vinyl chloride	ND	ug/L	10.0	5		03/18/16 03:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0517-S1(030916) **Lab ID: 50140212005** Collected: 03/09/16 15:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 03:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	5		03/18/16 03:30	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/18/16 03:30	460-00-4	
Toluene-d8 (S)	100	%.	86-110	5		03/18/16 03:30	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0621-S1(030916) **Lab ID: 50140212006** Collected: 03/09/16 14:09 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/18/16 04:41	67-64-1	
Benzene	ND		ug/L	25.0	5		03/18/16 04:41	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/18/16 04:41	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/18/16 04:41	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/18/16 04:41	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/18/16 04:41	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/18/16 04:41	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/18/16 04:41	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/18/16 04:41	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/18/16 04:41	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/18/16 04:41	67-66-3	
Chloromethane	ND		ug/L	25.0	5		03/18/16 04:41	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/18/16 04:41	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/18/16 04:41	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/18/16 04:41	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/18/16 04:41	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/18/16 04:41	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 04:41	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 04:41	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/18/16 04:41	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/18/16 04:41	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/18/16 04:41	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/18/16 04:41	75-35-4	
cis-1,2-Dichloroethene	**124**		ug/L	25.0	5		03/18/16 04:41	156-59-2	
trans-1,2-Dichloroethene	**38.1**		ug/L	25.0	5		03/18/16 04:41	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/18/16 04:41	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/18/16 04:41	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/18/16 04:41	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/18/16 04:41	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/18/16 04:41	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/18/16 04:41	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/18/16 04:41	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/18/16 04:41	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/18/16 04:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/18/16 04:41	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/18/16 04:41	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/18/16 04:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/18/16 04:41	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/18/16 04:41	127-18-4	
Toluene	ND		ug/L	25.0	5		03/18/16 04:41	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/18/16 04:41	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/18/16 04:41	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/18/16 04:41	79-00-5	
Trichloroethene	**3030**	D	ug/L	250	50		03/18/16 06:26	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/18/16 04:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/18/16 04:41	76-13-1	
Vinyl chloride	ND		ug/L	10.0	5		03/18/16 04:41	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0621-S1(030916) **Lab ID: 50140212006** Collected: 03/09/16 14:09 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 04:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 04:41	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	5		03/18/16 04:41	460-00-4	
Toluene-d8 (S)	99	%.	86-110	5		03/18/16 04:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: FD-01(030916) **Lab ID: 50140212007** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/18/16 07:02	67-64-1	
Benzene	ND		ug/L	25.0	5		03/18/16 07:02	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/18/16 07:02	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/18/16 07:02	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/18/16 07:02	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/18/16 07:02	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/18/16 07:02	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/18/16 07:02	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/18/16 07:02	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/18/16 07:02	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/18/16 07:02	67-66-3	
Chloromethane	ND		ug/L	25.0	5		03/18/16 07:02	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/18/16 07:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/18/16 07:02	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/18/16 07:02	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/18/16 07:02	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/18/16 07:02	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 07:02	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 07:02	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/18/16 07:02	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/18/16 07:02	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/18/16 07:02	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/18/16 07:02	75-35-4	
cis-1,2-Dichloroethene	**601**		ug/L	25.0	5		03/18/16 07:02	156-59-2	
trans-1,2-Dichloroethene	**72.0**		ug/L	25.0	5		03/18/16 07:02	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/18/16 07:02	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/18/16 07:02	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/18/16 07:02	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/18/16 07:02	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/18/16 07:02	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/18/16 07:02	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/18/16 07:02	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/18/16 07:02	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/18/16 07:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/18/16 07:02	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/18/16 07:02	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/18/16 07:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/18/16 07:02	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/18/16 07:02	127-18-4	
Toluene	ND		ug/L	25.0	5		03/18/16 07:02	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/18/16 07:02	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/18/16 07:02	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/18/16 07:02	79-00-5	
Trichloroethene	**3720**	D	ug/L	250	50		03/18/16 07:37	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/18/16 07:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/18/16 07:02	76-13-1	
Vinyl chloride	ND		ug/L	10.0	5		03/18/16 07:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: FD-01(030916) **Lab ID: 50140212007** Collected: 03/09/16 08:00 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 07:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 07:02	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	79-116	5		03/18/16 07:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	5		03/18/16 07:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: EB-01(030916) **Lab ID: 50140212008** Collected: 03/09/16 12:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		03/18/16 08:12	67-64-1	
Benzene	ND		ug/L	5.0	1		03/18/16 08:12	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		03/18/16 08:12	75-27-4	
Bromoform	ND		ug/L	5.0	1		03/18/16 08:12	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		03/18/16 08:12	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		03/18/16 08:12	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		03/18/16 08:12	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		03/18/16 08:12	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		03/18/16 08:12	108-90-7	
Chloroethane	ND		ug/L	5.0	1		03/18/16 08:12	75-00-3	
Chloroform	ND		ug/L	5.0	1		03/18/16 08:12	67-66-3	
Chloromethane	ND		ug/L	5.0	1		03/18/16 08:12	74-87-3	
Cyclohexane	ND		ug/L	100	1		03/18/16 08:12	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		03/18/16 08:12	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		03/18/16 08:12	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		03/18/16 08:12	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	5.0	1		03/18/16 08:12	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		03/18/16 08:12	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		03/18/16 08:12	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		03/18/16 08:12	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		03/18/16 08:12	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		03/18/16 08:12	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		03/18/16 08:12	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		03/18/16 08:12	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		03/18/16 08:12	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		03/18/16 08:12	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		03/18/16 08:12	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		03/18/16 08:12	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		03/18/16 08:12	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		03/18/16 08:12	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		03/18/16 08:12	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		03/18/16 08:12	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		03/18/16 08:12	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		03/18/16 08:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		03/18/16 08:12	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		03/18/16 08:12	1634-04-4	
Styrene	ND		ug/L	5.0	1		03/18/16 08:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		03/18/16 08:12	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		03/18/16 08:12	127-18-4	
Toluene	ND		ug/L	5.0	1		03/18/16 08:12	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		03/18/16 08:12	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		03/18/16 08:12	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		03/18/16 08:12	79-00-5	
Trichloroethene	**16.3**		ug/L	5.0	1		03/18/16 08:12	79-01-6	C0
Trichlorofluoromethane	ND		ug/L	5.0	1		03/18/16 08:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		03/18/16 08:12	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		03/18/16 08:12	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: EB-01(030916) **Lab ID: 50140212008** Collected: 03/09/16 12:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/18/16 08:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	84-118	1		03/18/16 08:12	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		03/18/16 08:12	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		03/18/16 08:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0704-S1(030916) **Lab ID: 50140212009** Collected: 03/09/16 10:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/18/16 08:47	67-64-1	
Benzene	ND		ug/L	25.0	5		03/18/16 08:47	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/18/16 08:47	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/18/16 08:47	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/18/16 08:47	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/18/16 08:47	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/18/16 08:47	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/18/16 08:47	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/18/16 08:47	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/18/16 08:47	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/18/16 08:47	67-66-3	
Chloromethane	ND		ug/L	25.0	5		03/18/16 08:47	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/18/16 08:47	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/18/16 08:47	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/18/16 08:47	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/18/16 08:47	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/18/16 08:47	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 08:47	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 08:47	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/18/16 08:47	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/18/16 08:47	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/18/16 08:47	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/18/16 08:47	75-35-4	
cis-1,2-Dichloroethene	**660**		ug/L	25.0	5		03/18/16 08:47	156-59-2	
trans-1,2-Dichloroethene	**89.5**		ug/L	25.0	5		03/18/16 08:47	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/18/16 08:47	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/18/16 08:47	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/18/16 08:47	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/18/16 08:47	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/18/16 08:47	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/18/16 08:47	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/18/16 08:47	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/18/16 08:47	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/18/16 08:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/18/16 08:47	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/18/16 08:47	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/18/16 08:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/18/16 08:47	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/18/16 08:47	127-18-4	
Toluene	ND		ug/L	25.0	5		03/18/16 08:47	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/18/16 08:47	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/18/16 08:47	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/18/16 08:47	79-00-5	
Trichloroethene	**1370**	D	ug/L	250	50		03/18/16 09:22	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/18/16 08:47	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/18/16 08:47	76-13-1	
Vinyl chloride	ND		ug/L	10.0	5		03/18/16 08:47	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0704-S1(030916) **Lab ID: 50140212009** Collected: 03/09/16 10:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 08:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	5		03/18/16 08:47	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	5		03/18/16 08:47	460-00-4	
Toluene-d8 (S)	99	%.	86-110	5		03/18/16 08:47	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0612-S1(030916) **Lab ID: 50140212010** Collected: 03/09/16 13:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	500	5		03/18/16 09:58	67-64-1	
Benzene	ND		ug/L	25.0	5		03/18/16 09:58	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	25.0	5		03/18/16 09:58	75-27-4	
Bromoform	ND		ug/L	25.0	5		03/18/16 09:58	75-25-2	
Bromomethane	ND	J	ug/L	25.0	5		03/18/16 09:58	74-83-9	
2-Butanone (MEK)	ND		ug/L	125	5		03/18/16 09:58	78-93-3	
Carbon disulfide	ND		ug/L	50.0	5		03/18/16 09:58	75-15-0	
Carbon tetrachloride	ND		ug/L	25.0	5		03/18/16 09:58	56-23-5	
Chlorobenzene	ND		ug/L	25.0	5		03/18/16 09:58	108-90-7	
Chloroethane	ND		ug/L	25.0	5		03/18/16 09:58	75-00-3	
Chloroform	ND		ug/L	25.0	5		03/18/16 09:58	67-66-3	
Chloromethane	ND		ug/L	25.0	5		03/18/16 09:58	74-87-3	
Cyclohexane	ND		ug/L	500	5		03/18/16 09:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	50.0	5		03/18/16 09:58	96-12-8	
Dibromochloromethane	ND		ug/L	25.0	5		03/18/16 09:58	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	25.0	5		03/18/16 09:58	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	25.0	5		03/18/16 09:58	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 09:58	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	25.0	5		03/18/16 09:58	106-46-7	
Dichlorodifluoromethane	ND		ug/L	25.0	5		03/18/16 09:58	75-71-8	
1,1-Dichloroethane	ND		ug/L	25.0	5		03/18/16 09:58	75-34-3	
1,2-Dichloroethane	ND		ug/L	25.0	5		03/18/16 09:58	107-06-2	
1,1-Dichloroethene	ND		ug/L	25.0	5		03/18/16 09:58	75-35-4	
cis-1,2-Dichloroethene	**193**		ug/L	25.0	5		03/18/16 09:58	156-59-2	
trans-1,2-Dichloroethene	**47.2**		ug/L	25.0	5		03/18/16 09:58	156-60-5	
1,2-Dichloropropane	ND		ug/L	25.0	5		03/18/16 09:58	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	25.0	5		03/18/16 09:58	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	25.0	5		03/18/16 09:58	10061-02-6	
Ethylbenzene	ND		ug/L	25.0	5		03/18/16 09:58	100-41-4	
2-Hexanone	ND		ug/L	125	5		03/18/16 09:58	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	25.0	5		03/18/16 09:58	98-82-8	
Methyl acetate	ND		ug/L	250	5		03/18/16 09:58	79-20-9	N2
Methylcyclohexane	ND		ug/L	250	5		03/18/16 09:58	108-87-2	N2
Methylene Chloride	ND	J	ug/L	25.0	5		03/18/16 09:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	125	5		03/18/16 09:58	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	20.0	5		03/18/16 09:58	1634-04-4	
Styrene	ND		ug/L	25.0	5		03/18/16 09:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	25.0	5		03/18/16 09:58	79-34-5	
Tetrachloroethene	ND		ug/L	25.0	5		03/18/16 09:58	127-18-4	
Toluene	ND		ug/L	25.0	5		03/18/16 09:58	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	25.0	5		03/18/16 09:58	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	25.0	5		03/18/16 09:58	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	25.0	5		03/18/16 09:58	79-00-5	
Trichloroethene	**2380**	D	ug/L	125	25		03/18/16 10:33	79-01-6	
Trichlorofluoromethane	ND		ug/L	25.0	5		03/18/16 09:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	25.0	5		03/18/16 09:58	76-13-1	
Vinyl chloride	ND		ug/L	10.0	5		03/18/16 09:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0612-S1(030916) **Lab ID: 50140212010** Collected: 03/09/16 13:45 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	50.0	5		03/18/16 09:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	5		03/18/16 09:58	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	5		03/18/16 09:58	460-00-4	
Toluene-d8 (S)	97	%.	86-110	5		03/18/16 09:58	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0606-S1(030916) **Lab ID: 50140212011** Collected: 03/09/16 12:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		03/21/16 01:36	67-64-1	
Benzene	ND		ug/L	5.0	1		03/21/16 01:36	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		03/21/16 01:36	75-27-4	
Bromoform	ND		ug/L	5.0	1		03/21/16 01:36	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		03/21/16 01:36	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		03/21/16 01:36	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		03/21/16 01:36	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		03/21/16 01:36	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		03/21/16 01:36	108-90-7	
Chloroethane	ND		ug/L	5.0	1		03/21/16 01:36	75-00-3	
Chloroform	ND		ug/L	5.0	1		03/21/16 01:36	67-66-3	
Chloromethane	ND		ug/L	5.0	1		03/21/16 01:36	74-87-3	
Cyclohexane	ND		ug/L	100	1		03/21/16 01:36	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		03/21/16 01:36	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		03/21/16 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		03/21/16 01:36	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	5.0	1		03/21/16 01:36	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		03/21/16 01:36	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		03/21/16 01:36	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		03/21/16 01:36	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		03/21/16 01:36	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		03/21/16 01:36	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		03/21/16 01:36	75-35-4	
cis-1,2-Dichloroethene	**329**	D	ug/L	50.0	10		03/18/16 11:08	156-59-2	
trans-1,2-Dichloroethene	**62.6**		ug/L	5.0	1		03/21/16 01:36	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		03/21/16 01:36	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		03/21/16 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		03/21/16 01:36	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		03/21/16 01:36	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		03/21/16 01:36	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		03/21/16 01:36	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		03/21/16 01:36	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		03/21/16 01:36	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		03/21/16 01:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		03/21/16 01:36	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		03/21/16 01:36	1634-04-4	
Styrene	ND		ug/L	5.0	1		03/21/16 01:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		03/21/16 01:36	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		03/21/16 01:36	127-18-4	
Toluene	ND		ug/L	5.0	1		03/21/16 01:36	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		03/21/16 01:36	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		03/21/16 01:36	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		03/21/16 01:36	79-00-5	
Trichloroethene	**1960**	D	ug/L	50.0	10		03/18/16 11:08	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		03/21/16 01:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		03/21/16 01:36	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		03/21/16 01:36	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0606-S1(030916) **Lab ID: 50140212011** Collected: 03/09/16 12:40 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		03/21/16 01:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		03/21/16 01:36	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		03/21/16 01:36	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		03/21/16 01:36	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0622-S1(030916) **Lab ID: 50140212012** Collected: 03/09/16 15:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	2000	20		03/18/16 14:53	67-64-1	
Benzene	ND		ug/L	100	20		03/18/16 14:53	71-43-2	2d,D4
Bromodichloromethane	ND		ug/L	100	20		03/18/16 14:53	75-27-4	
Bromoform	ND		ug/L	100	20		03/18/16 14:53	75-25-2	
Bromomethane	ND	J	ug/L	100	20		03/18/16 14:53	74-83-9	
2-Butanone (MEK)	ND		ug/L	500	20		03/18/16 14:53	78-93-3	
Carbon disulfide	ND		ug/L	200	20		03/18/16 14:53	75-15-0	
Carbon tetrachloride	ND		ug/L	100	20		03/18/16 14:53	56-23-5	
Chlorobenzene	ND		ug/L	100	20		03/18/16 14:53	108-90-7	
Chloroethane	ND		ug/L	100	20		03/18/16 14:53	75-00-3	
Chloroform	ND		ug/L	100	20		03/18/16 14:53	67-66-3	
Chloromethane	ND		ug/L	100	20		03/18/16 14:53	74-87-3	
Cyclohexane	ND		ug/L	2000	20		03/18/16 14:53	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	200	20		03/18/16 14:53	96-12-8	
Dibromochloromethane	ND		ug/L	100	20		03/18/16 14:53	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	100	20		03/18/16 14:53	106-93-4	
1,2-Dichlorobenzene	ND	J	ug/L	100	20		03/18/16 14:53	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	100	20		03/18/16 14:53	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	100	20		03/18/16 14:53	106-46-7	
Dichlorodifluoromethane	ND		ug/L	100	20		03/18/16 14:53	75-71-8	
1,1-Dichloroethane	ND		ug/L	100	20		03/18/16 14:53	75-34-3	
1,2-Dichloroethane	ND		ug/L	100	20		03/18/16 14:53	107-06-2	
1,1-Dichloroethene	ND		ug/L	100	20		03/18/16 14:53	75-35-4	
cis-1,2-Dichloroethene	**946**		ug/L	100	20		03/18/16 14:53	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	100	20		03/18/16 14:53	156-60-5	
1,2-Dichloropropane	ND		ug/L	100	20		03/18/16 14:53	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	100	20		03/18/16 14:53	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	100	20		03/18/16 14:53	10061-02-6	
Ethylbenzene	ND		ug/L	100	20		03/18/16 14:53	100-41-4	
2-Hexanone	ND		ug/L	500	20		03/18/16 14:53	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	100	20		03/18/16 14:53	98-82-8	
Methyl acetate	ND		ug/L	1000	20		03/18/16 14:53	79-20-9	N2
Methylcyclohexane	ND		ug/L	1000	20		03/18/16 14:53	108-87-2	N2
Methylene Chloride	ND	J	ug/L	100	20		03/18/16 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	500	20		03/18/16 14:53	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	80.0	20		03/18/16 14:53	1634-04-4	3d
Styrene	ND		ug/L	100	20		03/18/16 14:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	100	20		03/18/16 14:53	79-34-5	
Tetrachloroethene	ND		ug/L	100	20		03/18/16 14:53	127-18-4	
Toluene	ND		ug/L	100	20		03/18/16 14:53	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	100	20		03/18/16 14:53	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	100	20		03/18/16 14:53	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	100	20		03/18/16 14:53	79-00-5	
Trichloroethene	**9610**	D	ug/L	2500	500		03/18/16 15:28	79-01-6	
Trichlorofluoromethane	ND		ug/L	100	20		03/18/16 14:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	100	20		03/18/16 14:53	76-13-1	
Vinyl chloride	ND		ug/L	40.0	20		03/18/16 14:53	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Kokomo
Pace Project No.: 50140212

Sample: MW-0622-S1(030916) **Lab ID: 50140212012** Collected: 03/09/16 15:50 Received: 03/10/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	200	20		03/18/16 14:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	20		03/18/16 14:53	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	20		03/18/16 14:53	460-00-4	
Toluene-d8 (S)	99	%.	86-110	20		03/18/16 14:53	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50141666

Table Of Contents

Project Overview

Final Report with COC/SCUR 1

Organic

GC-MS Volatiles

Surrogate Recovery Summary (Form 2) 82

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) 85

Matrix Spike/Matrix Spike Duplicate Summary (Form 3) 88

Method Blank Association Summary (Form 4) 94

Instrument Performance Check (Form 5) 97

Internal Standard Area & Retention Time Summary (Form8) 103

Analytical Results with Raw Data (Form 1) 107

Initial Calibration (Form 6) 395

Raw Data for Initial Calibration Standards 407

Continuing Calibration (Form 7) 636

Raw Data for Continuing Calibration Standards 644

Raw Data QC 863

Instrument Run Log 1128

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

April 13, 2016

Ms. Sarah Jonker
Arcadis
132 E Washington Street
Suite 600
Indianapolis, IN 46204

RE: Project: Former GM Delco 5
Pace Project No.: 50141666

Dear Ms. Jonker:
Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Former GM Delco 5
Pace Project No.: 50141666

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Former GM Delco 5
Pace Project No.: 50141666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50141666001	**TB-01(033016)-LM**	Water	03/30/16 08:45	03/30/16 15:10
50141666002	**MW-0103-S1U(033016)PDB**	Water	03/30/16 12:12	03/30/16 15:10
50141666003	**MW-0501-S1(033016)PDB**	Water	03/30/16 12:24	03/30/16 15:10
50141666004	**MW-0502-S1(033016)PDB**	Water	03/30/16 11:39	03/30/16 15:10
50141666005	**MW-0503-S1(033016)PDB**	Water	03/30/16 11:25	03/30/16 15:10
50141666006	**MW-0505-S1(033016)PDB**	Water	03/30/16 10:57	03/30/16 15:10
50141666007	**EB-1(033016)-LM**	Water	03/30/16 10:58	03/30/16 15:10
50141666008	**MW-0506-S1(033016)PDB**	Water	03/30/16 11:04	03/30/16 15:10
50141666009	**MW-0507-S1(033016)PDB**	Water	03/30/16 11:18	03/30/16 15:10
50141666010	**MW-0509-S1(033016)PDB**	Water	03/30/16 10:45	03/30/16 15:10
50141666011	**MW-0516-S1(033016)PDB**	Water	03/30/16 12:41	03/30/16 15:10
50141666012	**FD-1(033016)-LM**	Water	03/30/16 08:00	03/30/16 15:10
50141666013	**MW-0602-S1(033016)PDB**	Water	03/30/16 09:25	03/30/16 15:10
50141666014	**MW-0603-S1(033016)PDB**	Water	03/30/16 12:41	03/30/16 15:10
50141666015	**MW-0604-S1(033016)PDB**	Water	03/30/16 11:33	03/30/16 15:10
50141666016	**MW-0605-S1(033016)PDB**	Water	03/30/16 11:47	03/30/16 15:10
50141666017	**MW-0607-S1(033016)PDB**	Water	03/30/16 10:04	03/30/16 15:10
50141666018	**MW-0608-S1(033016)PDB**	Water	03/30/16 10:39	03/30/16 15:10
50141666019	**MW-0609-S1(033016)PDB**	Water	03/30/16 09:48	03/30/16 15:10
50141666020	**MW-0610-S1(033016)PDB**	Water	03/30/16 09:33	03/30/16 15:10
50141666021	**MW-0613-S1(033016)PDB**	Water	03/30/16 10:21	03/30/16 15:10
50141666022	**EB-2(033016)-LM**	Water	03/30/16 10:28	03/30/16 15:10
50141666023	**MW-0617-S1(033016)PDB**	Water	03/30/16 11:15	03/30/16 15:10
50141666024	**MW-0618-S1(033016)PDB**	Water	03/30/16 10:12	03/30/16 15:10
50141666025	**MW-0619-S1(033016)PDB**	Water	03/30/16 12:07	03/30/16 15:10
50141666026	**MW-0620-S1(033016)PDB**	Water	03/30/16 11:55	03/30/16 15:10
50141666027	**FD-2(033016)-LM**	Water	03/30/16 08:00	03/30/16 15:10
50141666028	**MW-0623-S1(033016)PDB**	Water	03/30/16 12:36	03/30/16 15:10
50141666029	**MW-0705-S1(033016)PDB**	Water	03/30/16 10:32	03/30/16 15:10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Former GM Delco 5
Pace Project No.: 50141666

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50141666001	TB-01(033016)-LM	EPA 8260	JLZ	51
50141666002	MW-0103-S1U(033016)PDB	EPA 8260	JLZ	51
50141666003	MW-0501-S1(033016)PDB	EPA 8260	JLZ	51
50141666004	MW-0502-S1(033016)PDB	EPA 8260	JLZ	51
50141666005	MW-0503-S1(033016)PDB	EPA 8260	JLZ	51
50141666006	MW-0505-S1(033016)PDB	EPA 8260	JLZ	51
50141666007	EB-1(033016)-LM	EPA 8260	JLZ	51
50141666008	MW-0506-S1(033016)PDB	EPA 8260	JLZ	51
50141666009	MW-0507-S1(033016)PDB	EPA 8260	JLZ	51
50141666010	MW-0509-S1(033016)PDB	EPA 8260	JLZ	51
50141666011	MW-0516-S1(033016)PDB	EPA 8260	JLZ	51
50141666012	FD-1(033016)-LM	EPA 8260	JLZ	51
50141666013	MW-0602-S1(033016)PDB	EPA 8260	JLZ	51
50141666014	MW-0603-S1(033016)PDB	EPA 8260	JLZ	51
50141666015	MW-0604-S1(033016)PDB	EPA 8260	JLZ	51
50141666016	MW-0605-S1(033016)PDB	EPA 8260	JLZ	51
50141666017	MW-0607-S1(033016)PDB	EPA 8260	JLZ	51
50141666018	MW-0608-S1(033016)PDB	EPA 8260	JLZ	51
50141666019	MW-0609-S1(033016)PDB	EPA 8260	JLZ	51
50141666020	MW-0610-S1(033016)PDB	EPA 8260	JLZ	51
50141666021	MW-0613-S1(033016)PDB	EPA 8260	JLZ	51
50141666022	EB-2(033016)-LM	EPA 8260	JLZ	51
50141666023	MW-0617-S1(033016)PDB	EPA 8260	JLZ	51
50141666024	MW-0618-S1(033016)PDB	EPA 8260	JLZ	51
50141666025	MW-0619-S1(033016)PDB	EPA 8260	JLZ	51
50141666026	MW-0620-S1(033016)PDB	EPA 8260	JLZ	51
50141666027	FD-2(033016)-LM	EPA 8260	JLZ	51
50141666028	MW-0623-S1(033016)PDB	EPA 8260	JLZ	51
50141666029	MW-0705-S1(033016)PDB	EPA 8260	JLZ	51

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Former GM Delco 5
Pace Project No.: 50141666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50141666002	**MW-0103-S1U(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	7.6	ug/L	5.0	04/11/16 20:17	
EPA 8260	Trichloroethene	5.3	ug/L	5.0	04/11/16 20:17	
50141666006	**MW-0505-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	6.8	ug/L	5.0	04/12/16 01:38	
50141666009	**MW-0507-S1(033016)PDB**					
EPA 8260	1,1-Dichloroethane	24.4	ug/L	5.0	04/12/16 03:14	
EPA 8260	cis-1,2-Dichloroethene	75.8	ug/L	5.0	04/12/16 03:14	
EPA 8260	1,1,1-Trichloroethane	14.7	ug/L	5.0	04/12/16 03:14	
EPA 8260	Trichloroethene	5.1	ug/L	5.0	04/12/16 03:14	
50141666015	**MW-0604-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	1030	ug/L	50.0	04/12/16 06:26	
EPA 8260	trans-1,2-Dichloroethene	97.2	ug/L	5.0	04/12/16 05:54	
EPA 8260	Trichloroethene	3340	ug/L	125	04/13/16 01:48	
EPA 8260	Vinyl chloride	37.7	ug/L	2.0	04/12/16 05:54	
50141666016	**MW-0605-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	14.7	ug/L	5.0	04/12/16 06:58	
EPA 8260	Trichloroethene	742	ug/L	50.0	04/12/16 07:30	
50141666018	**MW-0608-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	97.8	ug/L	5.0	04/12/16 08:02	
EPA 8260	trans-1,2-Dichloroethene	9.3	ug/L	5.0	04/12/16 08:02	
EPA 8260	Vinyl chloride	2.6	ug/L	2.0	04/12/16 08:02	
50141666019	**MW-0609-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	18.6	ug/L	5.0	04/12/16 06:10	
EPA 8260	Trichloroethene	7.9	ug/L	5.0	04/12/16 06:10	
50141666025	**MW-0619-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	23.7	ug/L	5.0	04/12/16 04:02	
50141666026	**MW-0620-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	6.0	ug/L	5.0	04/12/16 08:18	
EPA 8260	Trichloroethene	4690	ug/L	250	04/13/16 02:20	
50141666027	**FD-2(033016)-LM**					
EPA 8260	cis-1,2-Dichloroethene	5.9	ug/L	5.0	04/12/16 04:34	
EPA 8260	Trichloroethene	4410	ug/L	250	04/13/16 02:52	
50141666029	**MW-0705-S1(033016)PDB**					
EPA 8260	cis-1,2-Dichloroethene	46.5	ug/L	5.0	04/12/16 05:38	
EPA 8260	trans-1,2-Dichloroethene	11.6	ug/L	5.0	04/12/16 05:38	
EPA 8260	Trichloroethene	135	ug/L	5.0	04/12/16 05:38	
EPA 8260	Vinyl chloride	3.4	ug/L	2.0	04/12/16 05:38	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: TB-01(033016)-LM **Lab ID: 50141666001** Collected: 03/30/16 08:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/16 19:45	67-64-1	
Benzene	ND	ug/L	5.0	1		04/11/16 19:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/16 19:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/11/16 19:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/16 19:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/16 19:45	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/11/16 19:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/16 19:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/16 19:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/16 19:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/16 19:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/16 19:45	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/11/16 19:45	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/11/16 19:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/16 19:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/16 19:45	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 19:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 19:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 19:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/16 19:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/16 19:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/16 19:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/16 19:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/16 19:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/16 19:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/16 19:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 19:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 19:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/16 19:45	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/11/16 19:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/16 19:45	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/11/16 19:45	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/11/16 19:45	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/11/16 19:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/16 19:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/16 19:45	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/11/16 19:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/16 19:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/16 19:45	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/16 19:45	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/16 19:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/16 19:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/16 19:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/16 19:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/16 19:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/11/16 19:45	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/11/16 19:45	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: TB-01(033016)-LM **Lab ID: 50141666001** Collected: 03/30/16 08:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 19:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/11/16 19:45	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/11/16 19:45	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 19:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0103-S1U(033016)PDB **Lab ID: 50141666002** Collected: 03/30/16 12:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/16 20:17	67-64-1	
Benzene	ND	ug/L	5.0	1		04/11/16 20:17	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/16 20:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/11/16 20:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/16 20:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/16 20:17	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/11/16 20:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/16 20:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/16 20:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/16 20:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/16 20:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/16 20:17	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/11/16 20:17	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/11/16 20:17	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/16 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/16 20:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/16 20:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/16 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/16 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/16 20:17	75-35-4	
cis-1,2-Dichloroethene	**7.6**	ug/L	5.0	1		04/11/16 20:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/16 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/16 20:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 20:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/16 20:17	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/11/16 20:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/16 20:17	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/11/16 20:17	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/11/16 20:17	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/11/16 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/16 20:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/16 20:17	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/11/16 20:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/16 20:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/16 20:17	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/16 20:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/16 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/16 20:17	79-00-5	
Trichloroethene	**5.3**	ug/L	5.0	1		04/11/16 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/16 20:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/11/16 20:17	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/11/16 20:17	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0103-S1U(033016)PDB **Lab ID: 50141666002** Collected: 03/30/16 12:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 20:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		04/11/16 20:17	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/11/16 20:17	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 20:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0501-S1(033016)PDB **Lab ID: 50141666003** Collected: 03/30/16 12:24 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/16 20:49	67-64-1	
Benzene	ND	ug/L	5.0	1		04/11/16 20:49	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/16 20:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/11/16 20:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/16 20:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/16 20:49	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/11/16 20:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/16 20:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/16 20:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/16 20:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/16 20:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/16 20:49	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/11/16 20:49	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/11/16 20:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/16 20:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/16 20:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/16 20:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/16 20:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/16 20:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/16 20:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/16 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/16 20:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/16 20:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 20:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/16 20:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/16 20:49	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/11/16 20:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/16 20:49	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/11/16 20:49	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/11/16 20:49	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/11/16 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/16 20:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/16 20:49	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/11/16 20:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/16 20:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/16 20:49	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/16 20:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/16 20:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/16 20:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/16 20:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/16 20:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/16 20:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/11/16 20:49	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/11/16 20:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0501-S1(033016)PDB **Lab ID: 50141666003** Collected: 03/30/16 12:24 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 20:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/11/16 20:49	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/11/16 20:49	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 20:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0502-S1(033016)PDB **Lab ID: 50141666004** Collected: 03/30/16 11:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 00:34	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 00:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 00:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 00:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 00:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 00:34	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 00:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 00:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 00:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 00:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 00:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 00:34	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 00:34	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 00:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 00:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 00:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 00:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 00:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 00:34	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 00:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 00:34	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 00:34	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 00:34	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 00:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 00:34	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 00:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 00:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 00:34	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 00:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 00:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 00:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 00:34	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 00:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0502-S1(033016)PDB **Lab ID: 50141666004** Collected: 03/30/16 11:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 00:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		04/12/16 00:34	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	79-116	1		04/12/16 00:34	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 00:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0503-S1(033016)PDB **Lab ID: 50141666005** Collected: 03/30/16 11:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 01:06	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 01:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 01:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 01:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 01:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 01:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 01:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 01:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 01:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 01:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 01:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 01:06	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 01:06	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 01:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 01:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 01:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 01:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 01:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 01:06	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 01:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 01:06	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 01:06	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 01:06	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 01:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 01:06	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 01:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 01:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 01:06	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 01:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 01:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 01:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 01:06	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 01:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0503-S1(033016)PDB **Lab ID: 50141666005** Collected: 03/30/16 11:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 01:06	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/12/16 01:06	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 01:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0505-S1(033016)PDB **Lab ID: 50141666006** Collected: 03/30/16 10:57 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 01:38	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 01:38	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 01:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 01:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 01:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 01:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 01:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 01:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 01:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 01:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 01:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 01:38	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 01:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 01:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 01:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:38	75-35-4	
cis-1,2-Dichloroethene	**6.8**	ug/L	5.0	1		04/12/16 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 01:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 01:38	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 01:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 01:38	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 01:38	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 01:38	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 01:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 01:38	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 01:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 01:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 01:38	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 01:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 01:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 01:38	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 01:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0505-S1(033016)PDB **Lab ID: 50141666006** Collected: 03/30/16 10:57 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 01:38	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/12/16 01:38	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 01:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-1(033016)-LM **Lab ID: 50141666007** Collected: 03/30/16 10:58 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 02:10	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 02:10	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 02:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 02:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 02:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 02:10	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 02:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 02:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 02:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 02:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 02:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 02:10	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 02:10	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 02:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 02:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 02:10	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 02:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 02:10	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 02:10	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 02:10	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 02:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 02:10	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 02:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 02:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 02:10	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 02:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 02:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 02:10	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 02:10	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-1(033016)-LM **Lab ID: 50141666007** Collected: 03/30/16 10:58 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 02:10	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 02:10	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		04/12/16 02:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0506-S1(033016)PDB **Lab ID: 50141666008** Collected: 03/30/16 11:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 02:42	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 02:42	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 02:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 02:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 02:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 02:42	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 02:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 02:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 02:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 02:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 02:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 02:42	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 02:42	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 02:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 02:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 02:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 02:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 02:42	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 02:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 02:42	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 02:42	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 02:42	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 02:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 02:42	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 02:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 02:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 02:42	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 02:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 02:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 02:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 02:42	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 02:42	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0506-S1(033016)PDB **Lab ID: 50141666008** Collected: 03/30/16 11:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 02:42	1868-53-7	
4-Bromofluorobenzene (S)	88	%.	79-116	1		04/12/16 02:42	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 02:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0507-S1(033016)PDB **Lab ID: 50141666009** Collected: 03/30/16 11:18 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 03:14	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 03:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 03:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 03:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 03:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 03:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 03:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 03:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 03:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 03:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 03:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 03:14	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 03:14	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 03:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 03:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 03:14	75-71-8	
1,1-Dichloroethane	**24.4**	ug/L	5.0	1		04/12/16 03:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:14	75-35-4	
cis-1,2-Dichloroethene	**75.8**	ug/L	5.0	1		04/12/16 03:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 03:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 03:14	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 03:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 03:14	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 03:14	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 03:14	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 03:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 03:14	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 03:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 03:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 03:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 03:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:14	120-82-1	
1,1,1-Trichloroethane	**14.7**	ug/L	5.0	1		04/12/16 03:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:14	79-00-5	
Trichloroethene	**5.1**	ug/L	5.0	1		04/12/16 03:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 03:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 03:14	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 03:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0507-S1(033016)PDB **Lab ID: 50141666009** Collected: 03/30/16 11:18 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 03:14	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/12/16 03:14	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 03:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0509-S1(033016)PDB **Lab ID: 50141666010** Collected: 03/30/16 10:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 03:46	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 03:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 03:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 03:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 03:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 03:46	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 03:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 03:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 03:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 03:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 03:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 03:46	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 03:46	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 03:46	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 03:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 03:46	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 03:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 03:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 03:46	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 03:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 03:46	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 03:46	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 03:46	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 03:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 03:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 03:46	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 03:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 03:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 03:46	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 03:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 03:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 03:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 03:46	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 03:46	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0509-S1(033016)PDB **Lab ID: 50141666010** Collected: 03/30/16 10:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 03:46	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 03:46	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		04/12/16 03:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0516-S1(033016)PDB **Lab ID: 50141666011** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 04:18	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 04:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 04:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 04:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 04:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 04:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 04:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 04:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 04:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 04:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 04:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 04:18	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 04:18	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 04:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 04:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 04:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 04:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 04:18	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 04:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 04:18	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 04:18	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 04:18	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 04:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 04:18	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 04:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 04:18	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 04:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 04:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 04:18	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 04:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0516-S1(033016)PDB **Lab ID: 50141666011** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 04:18	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 04:18	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 04:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-1(033016)-LM **Lab ID: 50141666012** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 04:50	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 04:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 04:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 04:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 04:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 04:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 04:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 04:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 04:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 04:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 04:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 04:50	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 04:50	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 04:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 04:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 04:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 04:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 04:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 04:50	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 04:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 04:50	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 04:50	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 04:50	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 04:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 04:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 04:50	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 04:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 04:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 04:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 04:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 04:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 04:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 04:50	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 04:50	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-1(033016)-LM **Lab ID: 50141666012** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 04:50	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 04:50	460-00-4	
Toluene-d8 (S)	96	%.	86-110	1		04/12/16 04:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0602-S1(033016)PDB **Lab ID: 50141666013** Collected: 03/30/16 09:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 05:22	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 05:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:22	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 05:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 05:22	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:22	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 05:22	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:22	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:22	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:22	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:22	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:22	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:22	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 05:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:22	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 05:22	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0602-S1(033016)PDB **Lab ID: 50141666013** Collected: 03/30/16 09:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 05:22	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 05:22	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 05:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0603-S1(033016)PDB **Lab ID: 50141666014** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 00:50	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 00:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 00:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 00:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 00:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 00:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 00:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 00:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 00:50	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 00:50	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 00:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 00:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 00:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 00:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 00:50	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 00:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 00:50	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 00:50	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 00:50	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 00:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 00:50	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 00:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 00:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 00:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 00:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 00:50	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 00:50	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0603-S1(033016)PDB **Lab ID: 50141666014** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 00:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 00:50	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 00:50	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 00:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0604-S1(033016)PDB **Lab ID: 50141666015** Collected: 03/30/16 11:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 05:54	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 05:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:54	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 05:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 05:54	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:54	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 05:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:54	75-35-4	
cis-1,2-Dichloroethene	**1030**	ug/L	50.0	10		04/12/16 06:26	156-59-2	
trans-1,2-Dichloroethene	**97.2**	ug/L	5.0	1		04/12/16 05:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:54	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:54	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:54	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:54	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:54	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:54	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:54	79-00-5	
Trichloroethene	**3340**	ug/L	125	25		04/13/16 01:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:54	76-13-1	
Vinyl chloride	**37.7**	ug/L	2.0	1		04/12/16 05:54	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0604-S1(033016)PDB **Lab ID: 50141666015** Collected: 03/30/16 11:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		04/12/16 05:54	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 05:54	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 05:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0605-S1(033016)PDB **Lab ID: 50141666016** Collected: 03/30/16 11:47 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 06:58	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 06:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 06:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 06:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 06:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 06:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 06:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 06:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 06:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 06:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 06:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 06:58	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 06:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 06:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 06:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 06:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 06:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 06:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 06:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 06:58	75-35-4	
cis-1,2-Dichloroethene	**14.7**	ug/L	5.0	1		04/12/16 06:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 06:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 06:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 06:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 06:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 06:58	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 06:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 06:58	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 06:58	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 06:58	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 06:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 06:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 06:58	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 06:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 06:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 06:58	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 06:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 06:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 06:58	79-00-5	
Trichloroethene	**742**	ug/L	50.0	10		04/12/16 07:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 06:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 06:58	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 06:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0605-S1(033016)PDB **Lab ID: 50141666016** Collected: 03/30/16 11:47 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 06:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 06:58	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 06:58	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 06:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0607-S1(033016)PDB **Lab ID: 50141666017** Collected: 03/30/16 10:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 01:22	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 01:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 01:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 01:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 01:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 01:22	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 01:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 01:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 01:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 01:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 01:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 01:22	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 01:22	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 01:22	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 01:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 01:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 01:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 01:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 01:22	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 01:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 01:22	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 01:22	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 01:22	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 01:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 01:22	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 01:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 01:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 01:22	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 01:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 01:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 01:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 01:22	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 01:22	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0607-S1(033016)PDB **Lab ID: 50141666017** Collected: 03/30/16 10:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 01:22	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 01:22	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 01:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0608-S1(033016)PDB **Lab ID: 50141666018** Collected: 03/30/16 10:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 08:02	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 08:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 08:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 08:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 08:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 08:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 08:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 08:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 08:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 08:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 08:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 08:02	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 08:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 08:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 08:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 08:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 08:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 08:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 08:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 08:02	75-35-4	
cis-1,2-Dichloroethene	**97.8**	ug/L	5.0	1		04/12/16 08:02	156-59-2	
trans-1,2-Dichloroethene	**9.3**	ug/L	5.0	1		04/12/16 08:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 08:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 08:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 08:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 08:02	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 08:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 08:02	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 08:02	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 08:02	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 08:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 08:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 08:02	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 08:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 08:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 08:02	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 08:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 08:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 08:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 08:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 08:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 08:02	76-13-1	
Vinyl chloride	**2.6**	ug/L	2.0	1		04/12/16 08:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0608-S1(033016)PDB **Lab ID: 50141666018** Collected: 03/30/16 10:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 08:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 08:02	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 08:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 08:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0609-S1(033016)PDB **Lab ID: 50141666019** Collected: 03/30/16 09:48 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 06:10	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 06:10	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 06:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 06:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 06:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 06:10	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 06:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 06:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 06:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 06:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 06:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 06:10	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 06:10	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 06:10	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 06:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 06:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 06:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 06:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 06:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 06:10	75-35-4	
cis-1,2-Dichloroethene	**18.6**	ug/L	5.0	1		04/12/16 06:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 06:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 06:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 06:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 06:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 06:10	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 06:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 06:10	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 06:10	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 06:10	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 06:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 06:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 06:10	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 06:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 06:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 06:10	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 06:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 06:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 06:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 06:10	79-00-5	
Trichloroethene	**7.9**	ug/L	5.0	1		04/12/16 06:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 06:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 06:10	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 06:10	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0609-S1(033016)PDB **Lab ID: 50141666019** Collected: 03/30/16 09:48 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 06:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 06:10	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 06:10	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 06:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0610-S1(033016)PDB **Lab ID: 50141666020** Collected: 03/30/16 09:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 01:54	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 01:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 01:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 01:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 01:54	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 01:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 01:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 01:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 01:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 01:54	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 01:54	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 01:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 01:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 01:54	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 01:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 01:54	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 01:54	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 01:54	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 01:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 01:54	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 01:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 01:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 01:54	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 01:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 01:54	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 01:54	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0610-S1(033016)PDB **Lab ID: 50141666020** Collected: 03/30/16 09:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 01:54	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 01:54	460-00-4	
Toluene-d8 (S)	103	%.	86-110	1		04/12/16 01:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0613-S1(033016)PDB **Lab ID: 50141666021** Collected: 03/30/16 10:21 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 02:26	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 02:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 02:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 02:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 02:26	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 02:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 02:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 02:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 02:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 02:26	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 02:26	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 02:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 02:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 02:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 02:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 02:26	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 02:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 02:26	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 02:26	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 02:26	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 02:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 02:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 02:26	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 02:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 02:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 02:26	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 02:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 02:26	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 02:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0613-S1(033016)PDB **Lab ID: 50141666021** Collected: 03/30/16 10:21 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 02:26	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 02:26	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 02:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-2(033016)-LM **Lab ID: 50141666022** Collected: 03/30/16 10:28 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 02:58	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 02:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 02:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 02:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 02:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 02:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 02:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 02:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 02:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 02:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 02:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 02:58	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 02:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 02:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 02:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 02:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 02:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 02:58	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 02:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 02:58	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 02:58	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 02:58	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 02:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 02:58	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 02:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 02:58	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 02:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 02:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 02:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 02:58	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 02:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-2(033016)-LM **Lab ID: 50141666022** Collected: 03/30/16 10:28 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 02:58	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/12/16 02:58	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 02:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0617-S1(033016)PDB **Lab ID: 50141666023** Collected: 03/30/16 11:15 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 07:14	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 07:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 07:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 07:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 07:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 07:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 07:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 07:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 07:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 07:14	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 07:14	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 07:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 07:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 07:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 07:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 07:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 07:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 07:14	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 07:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 07:14	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 07:14	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 07:14	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 07:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 07:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 07:14	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 07:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 07:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 07:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 07:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 07:14	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 07:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0617-S1(033016)PDB **Lab ID: 50141666023** Collected: 03/30/16 11:15 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 07:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 07:14	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 07:14	460-00-4	
Toluene-d8 (S)	103	%.	86-110	1		04/12/16 07:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0618-S1(033016)PDB **Lab ID: 50141666024** Collected: 03/30/16 10:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 03:30	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 03:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 03:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 03:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 03:30	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 03:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 03:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 03:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 03:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 03:30	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 03:30	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 03:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 03:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 03:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 03:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 03:30	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 03:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 03:30	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 03:30	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 03:30	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 03:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 03:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 03:30	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 03:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 03:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 03:30	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 03:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 03:30	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 03:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0618-S1(033016)PDB **Lab ID: 50141666024** Collected: 03/30/16 10:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 03:30	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/12/16 03:30	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 03:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0619-S1(033016)PDB **Lab ID: 50141666025** Collected: 03/30/16 12:07 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 04:02	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 04:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 04:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 04:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 04:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 04:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 04:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 04:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 04:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 04:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 04:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 04:02	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 04:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 04:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 04:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 04:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:02	75-35-4	
cis-1,2-Dichloroethene	**23.7**	ug/L	5.0	1		04/12/16 04:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 04:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 04:02	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 04:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 04:02	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 04:02	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 04:02	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 04:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 04:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 04:02	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 04:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 04:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 04:02	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 04:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 04:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 04:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 04:02	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 04:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0619-S1(033016)PDB **Lab ID: 50141666025** Collected: 03/30/16 12:07 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 04:02	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 04:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 04:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0620-S1(033016)PDB **Lab ID: 50141666026** Collected: 03/30/16 11:55 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 08:18	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 08:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 08:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 08:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 08:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 08:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 08:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 08:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 08:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 08:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 08:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 08:18	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 08:18	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 08:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 08:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 08:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 08:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 08:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 08:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 08:18	75-35-4	
cis-1,2-Dichloroethene	**6.0**	ug/L	5.0	1		04/12/16 08:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 08:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 08:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 08:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 08:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 08:18	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 08:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 08:18	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 08:18	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 08:18	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 08:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 08:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 08:18	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 08:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 08:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 08:18	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 08:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 08:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 08:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 08:18	79-00-5	
Trichloroethene	**4690**	ug/L	250	50		04/13/16 02:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 08:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 08:18	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 08:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0620-S1(033016)PDB **Lab ID: 50141666026** Collected: 03/30/16 11:55 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 08:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		04/12/16 08:18	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 08:18	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 08:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-2(033016)-LM **Lab ID: 50141666027** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 04:34	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 04:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 04:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 04:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 04:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 04:34	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 04:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 04:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 04:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 04:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 04:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 04:34	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 04:34	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 04:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 04:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 04:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:34	75-35-4	
cis-1,2-Dichloroethene	**5.9**	ug/L	5.0	1		04/12/16 04:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 04:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 04:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 04:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 04:34	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 04:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 04:34	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 04:34	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 04:34	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 04:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 04:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 04:34	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 04:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 04:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 04:34	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 04:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 04:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 04:34	79-00-5	
Trichloroethene	**4410**	ug/L	250	50		04/13/16 02:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 04:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 04:34	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 04:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-2(033016)-LM **Lab ID: 50141666027** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		04/12/16 04:34	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 04:34	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 04:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0623-S1(033016)PDB **Lab ID: 50141666028** Collected: 03/30/16 12:36 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 05:06	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 05:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 05:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 05:06	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:06	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 05:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:06	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:06	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:06	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:06	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:06	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:06	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:06	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 05:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0623-S1(033016)PDB **Lab ID: 50141666028** Collected: 03/30/16 12:36 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 05:06	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/12/16 05:06	460-00-4	
Toluene-d8 (S)	102	%.	86-110	1		04/12/16 05:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0705-S1(033016)PDB **Lab ID: 50141666029** Collected: 03/30/16 10:32 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/12/16 05:38	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:38	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 05:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/12/16 05:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:38	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/12/16 05:38	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		04/12/16 05:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:38	75-35-4	
cis-1,2-Dichloroethene	**46.5**	ug/L	5.0	1		04/12/16 05:38	156-59-2	
trans-1,2-Dichloroethene	**11.6**	ug/L	5.0	1		04/12/16 05:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:38	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:38	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:38	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:38	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:38	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:38	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	79-00-5	
Trichloroethene	**135**	ug/L	5.0	1		04/12/16 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:38	76-13-1	
Vinyl chloride	**3.4**	ug/L	2.0	1		04/12/16 05:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0705-S1(033016)PDB **Lab ID: 50141666029** Collected: 03/30/16 10:32 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 05:38	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 05:38	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 05:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

QC Batch: MSV/88898 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50141666004, 50141666005, 50141666006, 50141666007, 50141666008, 50141666009, 50141666010, 50141666011, 50141666012, 50141666013, 50141666015, 50141666016, 50141666018

METHOD BLANK: 1516493 Matrix: Water
Associated Lab Samples: 50141666004, 50141666005, 50141666006, 50141666007, 50141666008, 50141666009, 50141666010, 50141666011, 50141666012, 50141666013, 50141666015, 50141666016, 50141666018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/12/16 00:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/12/16 00:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/12/16 00:02	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/12/16 00:02	
1,1-Dichloroethane	ug/L	ND	5.0	04/12/16 00:02	
1,1-Dichloroethene	ug/L	ND	5.0	04/12/16 00:02	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/12/16 00:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	04/12/16 00:02	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/12/16 00:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:02	
1,2-Dichloroethane	ug/L	ND	5.0	04/12/16 00:02	
1,2-Dichloropropane	ug/L	ND	5.0	04/12/16 00:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:02	
2-Butanone (MEK)	ug/L	ND	25.0	04/12/16 00:02	
2-Hexanone	ug/L	ND	25.0	04/12/16 00:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/12/16 00:02	
Acetone	ug/L	ND	100	04/12/16 00:02	
Benzene	ug/L	ND	5.0	04/12/16 00:02	
Bromodichloromethane	ug/L	ND	5.0	04/12/16 00:02	
Bromoform	ug/L	ND	5.0	04/12/16 00:02	
Bromomethane	ug/L	ND	5.0	04/12/16 00:02	
Carbon disulfide	ug/L	ND	10.0	04/12/16 00:02	
Carbon tetrachloride	ug/L	ND	5.0	04/12/16 00:02	
Chlorobenzene	ug/L	ND	5.0	04/12/16 00:02	
Chloroethane	ug/L	ND	5.0	04/12/16 00:02	
Chloroform	ug/L	ND	5.0	04/12/16 00:02	
Chloromethane	ug/L	ND	5.0	04/12/16 00:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/12/16 00:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/12/16 00:02	
Cyclohexane	ug/L	ND	100	04/12/16 00:02	N2
Dibromochloromethane	ug/L	ND	5.0	04/12/16 00:02	
Dichlorodifluoromethane	ug/L	ND	5.0	04/12/16 00:02	
Ethylbenzene	ug/L	ND	5.0	04/12/16 00:02	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/12/16 00:02	
Methyl acetate	ug/L	ND	50.0	04/12/16 00:02	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	04/12/16 00:02	
Methylcyclohexane	ug/L	ND	50.0	04/12/16 00:02	N2
Methylene Chloride	ug/L	ND	5.0	04/12/16 00:02	
Styrene	ug/L	ND	5.0	04/12/16 00:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

METHOD BLANK: 1516493 Matrix: Water

Associated Lab Samples: 50141666004, 50141666005, 50141666006, 50141666007, 50141666008, 50141666009, 50141666010, 50141666011, 50141666012, 50141666013, 50141666015, 50141666016, 50141666018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	04/12/16 00:02	
Toluene	ug/L	ND	5.0	04/12/16 00:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/12/16 00:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/12/16 00:02	
Trichloroethene	ug/L	ND	5.0	04/12/16 00:02	
Trichlorofluoromethane	ug/L	ND	5.0	04/12/16 00:02	
Vinyl chloride	ug/L	ND	2.0	04/12/16 00:02	
Xylene (Total)	ug/L	ND	10.0	04/12/16 00:02	
4-Bromofluorobenzene (S)	%.	88	79-116	04/12/16 00:02	
Dibromofluoromethane (S)	%.	104	84-118	04/12/16 00:02	
Toluene-d8 (S)	%.	98	86-110	04/12/16 00:02	

LABORATORY CONTROL SAMPLE: 1516494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	72-124	
1,1-Dichloroethene	ug/L	50	46.2	92	69-127	
1,2-Dichloropropane	ug/L	50	47.1	94	77-124	
Benzene	ug/L	50	46.9	94	76-122	
Chlorobenzene	ug/L	50	47.8	96	76-118	
Chloroform	ug/L	50	47.2	94	70-119	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	74-120	
Ethylbenzene	ug/L	50	50.4	101	75-123	
Isopropylbenzene (Cumene)	ug/L	50	49.7	99	84-134	
Methyl-tert-butyl ether	ug/L	50	49.4	99	65-131	
Tetrachloroethene	ug/L	50	52.2	104	69-119	
Toluene	ug/L	50	44.5	89	74-122	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	72-122	
Trichloroethene	ug/L	50	46.8	94	75-123	
Vinyl chloride	ug/L	50	44.8	90	61-147	
Xylene (Total)	ug/L	150	147	98	75-127	
4-Bromofluorobenzene (S)	%.			89	79-116	
Dibromofluoromethane (S)	%.			102	84-118	
Toluene-d8 (S)	%.			101	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516495 1516496

Parameter	Units	50141666005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	50.6	52.5	101	105	51-140	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.2	45.2	90	90	49-138	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516495 1516496

Parameter	Units	50141666005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	50.9	51.2	102	102	51-144	1	20	
1,2-Dichloropropane	ug/L	ND	50	50	47.8	49.6	96	99	56-138	4	20	
Benzene	ug/L	ND	50	50	48.5	49.3	97	99	51-140	2	20	
Chlorobenzene	ug/L	ND	50	50	48.0	49.0	96	98	45-138	2	20	
Chloroform	ug/L	ND	50	50	48.8	49.6	98	99	50-135	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.7	50.2	99	100	43-144	1	20	
Ethylbenzene	ug/L	ND	50	50	50.2	51.8	100	104	36-146	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	50.1	52.5	100	105	43-159	5	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	45.8	47.4	92	95	43-146	4	20	
Tetrachloroethene	ug/L	ND	50	50	49.6	52.2	99	104	38-139	5	20	
Toluene	ug/L	ND	50	50	43.8	46.1	87	92	44-140	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	46.2	47.9	92	96	50-139	4	20	
Trichloroethene	ug/L	ND	50	50	49.0	49.8	98	100	44-146	2	20	
Vinyl chloride	ug/L	ND	50	50	49.5	50.2	99	100	43-166	1	20	
Xylene (Total)	ug/L	ND	150	150	144	153	96	102	35-146	6	20	
4-Bromofluorobenzene (S)	%.						90	92	79-116			
Dibromofluoromethane (S)	%.						103	101	84-118			
Toluene-d8 (S)	%.						101	99	86-110			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

QC Batch: MSV/88899 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50141666014, 50141666017, 50141666019, 50141666020, 50141666021, 50141666022, 50141666023, 50141666024, 50141666025, 50141666026, 50141666027, 50141666028, 50141666029

METHOD BLANK: 1516501 Matrix: Water
Associated Lab Samples: 50141666014, 50141666017, 50141666019, 50141666020, 50141666021, 50141666022, 50141666023, 50141666024, 50141666025, 50141666026, 50141666027, 50141666028, 50141666029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/12/16 00:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/12/16 00:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/12/16 00:18	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/12/16 00:18	
1,1-Dichloroethane	ug/L	ND	5.0	04/12/16 00:18	
1,1-Dichloroethene	ug/L	ND	5.0	04/12/16 00:18	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/12/16 00:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	04/12/16 00:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/12/16 00:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:18	
1,2-Dichloroethane	ug/L	ND	5.0	04/12/16 00:18	
1,2-Dichloropropane	ug/L	ND	5.0	04/12/16 00:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/12/16 00:18	
2-Butanone (MEK)	ug/L	ND	25.0	04/12/16 00:18	
2-Hexanone	ug/L	ND	25.0	04/12/16 00:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/12/16 00:18	
Acetone	ug/L	ND	100	04/12/16 00:18	
Benzene	ug/L	ND	5.0	04/12/16 00:18	
Bromodichloromethane	ug/L	ND	5.0	04/12/16 00:18	
Bromoform	ug/L	ND	5.0	04/12/16 00:18	
Bromomethane	ug/L	ND	5.0	04/12/16 00:18	
Carbon disulfide	ug/L	ND	10.0	04/12/16 00:18	
Carbon tetrachloride	ug/L	ND	5.0	04/12/16 00:18	
Chlorobenzene	ug/L	ND	5.0	04/12/16 00:18	
Chloroethane	ug/L	ND	5.0	04/12/16 00:18	
Chloroform	ug/L	ND	5.0	04/12/16 00:18	
Chloromethane	ug/L	ND	5.0	04/12/16 00:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/12/16 00:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/12/16 00:18	
Cyclohexane	ug/L	ND	100	04/12/16 00:18	N2
Dibromochloromethane	ug/L	ND	5.0	04/12/16 00:18	
Dichlorodifluoromethane	ug/L	ND	5.0	04/12/16 00:18	
Ethylbenzene	ug/L	ND	5.0	04/12/16 00:18	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/12/16 00:18	
Methyl acetate	ug/L	ND	50.0	04/12/16 00:18	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	04/12/16 00:18	
Methylcyclohexane	ug/L	ND	50.0	04/12/16 00:18	N2
Methylene Chloride	ug/L	ND	5.0	04/12/16 00:18	
Styrene	ug/L	ND	5.0	04/12/16 00:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

METHOD BLANK: 1516501 Matrix: Water

Associated Lab Samples: 50141666014, 50141666017, 50141666019, 50141666020, 50141666021, 50141666022, 50141666023, 50141666024, 50141666025, 50141666026, 50141666027, 50141666028, 50141666029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	ND	5.0	04/12/16 00:18	
Toluene	ug/L	ND	5.0	04/12/16 00:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/12/16 00:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/12/16 00:18	
Trichloroethene	ug/L	ND	5.0	04/12/16 00:18	
Trichlorofluoromethane	ug/L	ND	5.0	04/12/16 00:18	
Vinyl chloride	ug/L	ND	2.0	04/12/16 00:18	
Xylene (Total)	ug/L	ND	10.0	04/12/16 00:18	
4-Bromofluorobenzene (S)	%.	83	79-116	04/12/16 00:18	
Dibromofluoromethane (S)	%.	101	84-118	04/12/16 00:18	
Toluene-d8 (S)	%.	97	86-110	04/12/16 00:18	

LABORATORY CONTROL SAMPLE: 1516502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.3	101	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	42.1	84	72-124	
1,1-Dichloroethene	ug/L	50	44.1	88	69-127	
1,2-Dichloropropane	ug/L	50	46.8	94	77-124	
Benzene	ug/L	50	47.0	94	76-122	
Chlorobenzene	ug/L	50	46.2	92	76-118	
Chloroform	ug/L	50	47.6	95	70-119	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	74-120	
Ethylbenzene	ug/L	50	47.7	95	75-123	
Isopropylbenzene (Cumene)	ug/L	50	48.5	97	84-134	
Methyl-tert-butyl ether	ug/L	50	47.0	94	65-131	
Tetrachloroethene	ug/L	50	51.0	102	69-119	
Toluene	ug/L	50	44.1	88	74-122	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	72-122	
Trichloroethene	ug/L	50	49.5	99	75-123	
Vinyl chloride	ug/L	50	41.8	84	61-147	
Xylene (Total)	ug/L	150	144	96	75-127	
4-Bromofluorobenzene (S)	%.			90	79-116	
Dibromofluoromethane (S)	%.			97	84-118	
Toluene-d8 (S)	%.			99	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516503 1516504

Parameter	Units	50141666029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	53.9	56.3	108	113	51-140	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.2	51.6	90	103	49-138	13	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516503 1516504

Parameter	Units	50141666029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	52.9	53.7	106	107	51-144	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.5	49.9	99	100	56-138	1	20	
Benzene	ug/L	ND	50	50	51.4	53.4	103	107	51-140	4	20	
Chlorobenzene	ug/L	ND	50	50	49.3	50.2	99	100	45-138	2	20	
Chloroform	ug/L	ND	50	50	51.9	54.8	104	110	50-135	6	20	
cis-1,2-Dichloroethene	ug/L	46.5	50	50	92.8	96.8	92	101	43-144	4	20	
Ethylbenzene	ug/L	ND	50	50	51.2	52.4	102	105	36-146	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.4	53.2	103	106	43-159	3	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	48.7	54.0	97	108	43-146	10	20	
Tetrachloroethene	ug/L	ND	50	50	52.2	52.2	104	104	38-139	0	20	
Toluene	ug/L	ND	50	50	46.9	48.6	93	97	44-140	4	20	
trans-1,2-Dichloroethene	ug/L	11.6	50	50	57.3	62.4	91	102	50-139	9	20	
Trichloroethene	ug/L	135	50	50	159	164	47	58	44-146	3	20	
Vinyl chloride	ug/L	3.4	50	50	52.4	52.7	98	99	43-166	1	20	
Xylene (Total)	ug/L	ND	150	150	148	155	99	103	35-146	5	20	
4-Bromofluorobenzene (S)	%.						90	91	79-116			
Dibromofluoromethane (S)	%.						102	100	84-118			
Toluene-d8 (S)	%.						101	99	86-110			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

QC Batch: MSV/88901 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50141666001, 50141666002, 50141666003

METHOD BLANK: 1516522 Matrix: Water
Associated Lab Samples: 50141666001, 50141666002, 50141666003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/11/16 11:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/11/16 11:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/11/16 11:42	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	04/11/16 11:42	
1,1-Dichloroethane	ug/L	ND	5.0	04/11/16 11:42	
1,1-Dichloroethene	ug/L	ND	5.0	04/11/16 11:42	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/16 11:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	04/11/16 11:42	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/11/16 11:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/11/16 11:42	
1,2-Dichloroethane	ug/L	ND	5.0	04/11/16 11:42	
1,2-Dichloropropane	ug/L	ND	5.0	04/11/16 11:42	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/11/16 11:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/11/16 11:42	
2-Butanone (MEK)	ug/L	ND	25.0	04/11/16 11:42	
2-Hexanone	ug/L	ND	25.0	04/11/16 11:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/11/16 11:42	
Acetone	ug/L	ND	100	04/11/16 11:42	
Benzene	ug/L	ND	5.0	04/11/16 11:42	
Bromodichloromethane	ug/L	ND	5.0	04/11/16 11:42	
Bromoform	ug/L	ND	5.0	04/11/16 11:42	
Bromomethane	ug/L	ND	5.0	04/11/16 11:42	
Carbon disulfide	ug/L	ND	10.0	04/11/16 11:42	
Carbon tetrachloride	ug/L	ND	5.0	04/11/16 11:42	
Chlorobenzene	ug/L	ND	5.0	04/11/16 11:42	
Chloroethane	ug/L	ND	5.0	04/11/16 11:42	
Chloroform	ug/L	ND	5.0	04/11/16 11:42	
Chloromethane	ug/L	ND	5.0	04/11/16 11:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/11/16 11:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/11/16 11:42	
Cyclohexane	ug/L	ND	100	04/11/16 11:42	N2
Dibromochloromethane	ug/L	ND	5.0	04/11/16 11:42	
Dichlorodifluoromethane	ug/L	ND	5.0	04/11/16 11:42	
Ethylbenzene	ug/L	ND	5.0	04/11/16 11:42	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/11/16 11:42	
Methyl acetate	ug/L	ND	50.0	04/11/16 11:42	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	04/11/16 11:42	
Methylcyclohexane	ug/L	ND	50.0	04/11/16 11:42	N2
Methylene Chloride	ug/L	ND	5.0	04/11/16 11:42	
Styrene	ug/L	ND	5.0	04/11/16 11:42	
Tetrachloroethene	ug/L	ND	5.0	04/11/16 11:42	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

METHOD BLANK: 1516522 Matrix: Water
Associated Lab Samples: 50141666001, 50141666002, 50141666003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	04/11/16 11:42	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/11/16 11:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/11/16 11:42	
Trichloroethene	ug/L	ND	5.0	04/11/16 11:42	
Trichlorofluoromethane	ug/L	ND	5.0	04/11/16 11:42	
Vinyl chloride	ug/L	ND	2.0	04/11/16 11:42	
Xylene (Total)	ug/L	ND	10.0	04/11/16 11:42	
4-Bromofluorobenzene (S)	%.	88	79-116	04/11/16 11:42	
Dibromofluoromethane (S)	%.	103	84-118	04/11/16 11:42	
Toluene-d8 (S)	%.	99	86-110	04/11/16 11:42	

LABORATORY CONTROL SAMPLE: 1516523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	72-124	
1,1-Dichloroethene	ug/L	50	46.6	93	69-127	
1,2-Dichloropropane	ug/L	50	47.6	95	77-124	
Benzene	ug/L	50	48.1	96	76-122	
Chlorobenzene	ug/L	50	46.9	94	76-118	
Chloroform	ug/L	50	47.7	95	70-119	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	74-120	
Ethylbenzene	ug/L	50	49.4	99	75-123	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	84-134	
Methyl-tert-butyl ether	ug/L	50	48.9	98	65-131	
Tetrachloroethene	ug/L	50	51.6	103	69-119	
Toluene	ug/L	50	44.7	89	74-122	
trans-1,2-Dichloroethene	ug/L	50	47.2	94	72-122	
Trichloroethene	ug/L	50	48.3	97	75-123	
Vinyl chloride	ug/L	50	45.3	91	61-147	
Xylene (Total)	ug/L	150	143	95	75-127	
4-Bromofluorobenzene (S)	%.			90	79-116	
Dibromofluoromethane (S)	%.			103	84-118	
Toluene-d8 (S)	%.			100	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516524 1516525

Parameter	Units	50141666003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	46.2	46.9	92	94	51-140	1	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.1	46.2	86	92	49-138	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.4	42.5	89	85	51-144	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Former GM Delco 5
Pace Project No.: 50141666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1516524 1516525

Parameter	Units	50141666003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	ND	50	50	43.5	44.9	87	90	56-138	3	20	
Benzene	ug/L	ND	50	50	44.1	44.6	88	89	51-140	1	20	
Chlorobenzene	ug/L	ND	50	50	43.4	44.7	87	89	45-138	3	20	
Chloroform	ug/L	ND	50	50	44.0	44.3	88	89	50-135	1	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	47.4	49.0	89	92	43-144	3	20	
Ethylbenzene	ug/L	ND	50	50	45.1	46.4	90	93	36-146	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.1	47.3	92	95	43-159	2	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	43.7	46.7	87	93	43-146	7	20	
Tetrachloroethene	ug/L	ND	50	50	48.7	48.4	97	97	38-139	1	20	
Toluene	ug/L	ND	50	50	41.6	41.0	83	81	44-140	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	42.8	42.9	86	86	50-139	0	20	
Trichloroethene	ug/L	ND	50	50	45.1	45.2	90	90	44-146	0	20	
Vinyl chloride	ug/L	ND	50	50	42.9	42.4	86	85	43-166	1	20	
Xylene (Total)	ug/L	ND	150	150	133	136	88	90	35-146	2	20	
4-Bromofluorobenzene (S)	%.						92	89	79-116			
Dibromofluoromethane (S)	%.						102	97	84-118			
Toluene-d8 (S)	%.						100	96	86-110			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Former GM Delco 5
Pace Project No.: 50141666

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former GM Delco 5
Pace Project No.: 50141666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50141666001	**TB-01(033016)-LM**	EPA 8260	MSV/88901		
50141666002	**MW-0103-S1U(033016)PDB**	EPA 8260	MSV/88901		
50141666003	**MW-0501-S1(033016)PDB**	EPA 8260	MSV/88901		
50141666004	**MW-0502-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666005	**MW-0503-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666006	**MW-0505-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666007	**EB-1(033016)-LM**	EPA 8260	MSV/88898		
50141666008	**MW-0506-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666009	**MW-0507-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666010	**MW-0509-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666011	**MW-0516-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666012	**FD-1(033016)-LM**	EPA 8260	MSV/88898		
50141666013	**MW-0602-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666014	**MW-0603-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666015	**MW-0604-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666016	**MW-0605-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666017	**MW-0607-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666018	**MW-0608-S1(033016)PDB**	EPA 8260	MSV/88898		
50141666019	**MW-0609-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666020	**MW-0610-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666021	**MW-0613-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666022	**EB-2(033016)-LM**	EPA 8260	MSV/88899		
50141666023	**MW-0617-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666024	**MW-0618-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666025	**MW-0619-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666026	**MW-0620-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666027	**FD-2(033016)-LM**	EPA 8260	MSV/88899		
50141666028	**MW-0623-S1(033016)PDB**	EPA 8260	MSV/88899		
50141666029	**MW-0705-S1(033016)PDB**	EPA 8260	MSV/88899		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

2044469

Section A Required Client Information:

Company:	ARCADIS
Address:	132 E Washington St Indpls, IN 46204
Email To:	Sarah.Tanker
Phone: 317-231-6500	Fax: 317-231-6514
Requested Due Date/TAT:	Std

Section B Required Project Information:

Report To:	Sarah Tanker
Copy To:	Matt Griffes, Sarah Fisher
Purchase Order No.:	IN000884.2016.00006
Project Name:	Race-Kokomo Former GM Delco
Project Number:	IN000884.2016.00006

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Donna Szymkus
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01(033016)-LM	WG	G			3.30.16	0845		3				X						X		001
2	MW-0103-S1(033016)PDB	WG	G				1212		3				X						X		002
3	MW-0501-S1(033016)PDB	WG	G				1224		9				X						X	MS/MSD	003
4	MW-0502-S1(033016)PDB	WG	G				1139		3				X						X		004
5	MW-0503-S1(033016)PDB	WG	G				1125		9				X						X	MS/MSD	005
6	MW-0505-S1(033016)PDB	WG	G				1057		3				X						X		006
7	EB-1(033016)-LM	WG	G				1058		3				X						X		007
8	MW-0506-S1(033016)PDB	WG	G				1104		3				X						X		008
9	MW-0507-S1(033016)PDB						1118		3				X						X		009
10	MW-0509-S1(033016)PDB						1043		3				X						X		010
11	MW-0516-S1(033016)PDB						1241		3				X						X		011
12	FD-1(033016)-LM								3				X						X		012

50141666 3/30/16 50141666

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	ARCADIS	3.30.16	1510		3/30/16	1510	2.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Mayth

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 3/30/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2044470

Section A Required Client Information:

Company: ARCADIS
Address: 132 Washington St
Indpls IN 46204
Email To: Sarah.Jonker@
Phone: 317.231.6500 Fax: 317.231.6514
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Matt Griles
Sarah Fisher
Purchase Order No.: IN000884.2016.00006
Project Name: Foams 6M Delco 5
Project Number: IN000884.2016.00006

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Donna Spyker
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0602-S1(033016)PDB	WG	G			3.30.16	0905		3				X						X		013
2	MW-0603-S1(033016)PDB	WG	G				1241		3				X						X		014
3	MW-0604-S1(033016)PDB	WG	G				1133		3				X						X		015
4	MW-0605-S1(033016)PDB	WG	G				1147		3				X						X		016
5	MW-0607-S1(033016)PDB	WG	G				1004		3				X						X		017
6	MW-0609-S1(033016)PDB	WG	G				1039		3				X						X		018
7	MW-0609-S1(033016)PDB	WG	G				0948		3				X						X		019
8	MW-0610-S1(033016)PDB	WG	G				0933		3				X						X		020
9	MW-0613-S1(033016)PDB	WG	G				1021		3				X						X		021
10	EB-2(033016)-LM	WG	G				1028		3				X						X		022
11	MW-0617-S1(033016)PDB	WG	G				1115		3				X						X		023
12	MW-0618-S1(033016)PDB	WG	G				1012		3				X						X		024

501416666 K.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	ARCADIS	3.30.16	1510		3/30/16	1510	2.6 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/30/16

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.6	Y	N	Y

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2044471

Section A Required Client Information:

Company: ARCADIS
Address: 132 E Washington St Indpls, IN 46204
Email To: Sarah.Jonker@arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6514
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Matt Briles, Sarah Fisher
Purchase Order No.: IN000884.2016.00006
Project Name: Former GM Delco 5
Project Number: IN000884.2016.00006

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Donna Sparks
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0619-SL(033016)PDB	WG	G			3.30.16	1207		3				X					X		025
2	MW-0620-SL(033016)PDB						1155		3				X					X		026
3	FD-2(033016)-LM						—		3				X					X		027
4	MW-0623-SL(033016)PDB						1236		3				X					X		028
5	MW-0705-SL(033016)PDB						1032		3				X					X		029
6																				
7																				
8																				
9																				
10																				
11																				
12																				

5D44466 88 3/30/16
5D141666 VB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	MP / ARCADIS	3.30.16	1540		3/30/16	1540

SAMPLE CONDITIONS: Temp in °C: 2.6; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Luke Martin
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 3/30/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: ALADS

Project # 50141666

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 2.6/2.6 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: RRS 3/30/16

Are samples from West Virginia?	☐Yes	☑No		1.
Document any containers out of temp.				
Chain of Custody Present:	☑Yes	☐No	☐N/A	2.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	3.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Containers Intact:	☑Yes	☐No	☐N/A	8.
Sample Labels match COC:	☑Yes	☐No	☐N/A	9.
-Includes date/time/ID/Analysis				
All containers needing acid/base pres. have been checked?	☐Yes	☐No	☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
exceptions: VOA, coliform, TOC, O&G				
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.				
Residual Chlorine Check (SVOC 625 Pest/PCB 608)				11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)				12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	13
Headspace Wisconsin Sulfide	☐Yes	☐No		14
Trip Blank Present:	☑Yes	☐No	☐N/A	15
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	15.
Sufficient Volume:	☑Yes	☐No	☐N/A	16.
Correct Containers Used:	☑Yes	☐No	☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3/30/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: ARCADIS

COC PAGE 1 of 3
COC ID# 20244469

Project # 50141666

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1	3																			
2	1																			
3	9																			
4	3																			
5	9																			
6	3																			
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: ALCADS

COC PAGE 2 of 3
COC ID# 20444470

Project # 50141666

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1	3																				
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

80 of 1139

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: ALCADIS

COC PAGE 3 of 3

COC ID# 2074471

Project # 50141666

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1	3																				
2	1																				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3B

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1516501	1516501BLANK	83	101	97
1516502	1516502LCS	90	97	99
1516503	1516503MS	90	102	101
1516504	1516504MSD	91	100	99
50141666014	MW-0603-S1(033016)PDB	85	104	99
50141666017	MW-0607-S1(033016)PDB	83	104	99
50141666019	MW-0609-S1(033016)PDB	83	106	101
50141666020	MW-0610-S1(033016)PDB	83	104	103
50141666021	MW-0613-S1(033016)PDB	83	103	100
50141666022	EB-2(033016)-LM	84	103	98
50141666023	MW-0617-S1(033016)PDB	83	106	103
50141666024	MW-0618-S1(033016)PDB	84	103	101
50141666025	MW-0619-S1(033016)PDB	82	107	98
50141666026	MW-0620-S1(033016)PDB	82	101	101
50141666027	FD-2(033016)-LM	85	102	101
50141666028	MW-0623-S1(033016)PDB	87	105	102
50141666029	MW-0705-S1(033016)PDB	85	107	101

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1516493	1516493BLANK	88	104	98
1516494	1516494LCS	89	102	101
1516495	1516495MS	90	103	101
1516496	1516496MSD	92	101	99
50141666004	MW-0502-S1(033016)PDB	89	100	99
50141666005	MW-0503-S1(033016)PDB	87	103	100
50141666006	MW-0505-S1(033016)PDB	86	103	98
50141666007	EB-1(033016)-LM	85	104	97
50141666008	MW-0506-S1(033016)PDB	88	104	99
50141666009	MW-0507-S1(033016)PDB	86	104	101
50141666010	MW-0509-S1(033016)PDB	85	105	97
50141666011	MW-0516-S1(033016)PDB	85	104	99
50141666012	FD-1(033016)-LM	83	106	96
50141666013	MW-0602-S1(033016)PDB	82	104	100
50141666015	MW-0604-S1(033016)PDB	82	99	101
50141666016	MW-0605-S1(033016)PDB	85	107	100
50141666018	MW-0608-S1(033016)PDB	85	105	98

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM II VOA-2
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1516522	1516522BLANK	88	103	99
1516523	1516523LCS	90	103	100
1516524	1516524MS	92	102	100
1516525	1516525MSD	89	97	96
50141666001	TB-01(033016)-LM	87	106	98
50141666002	MW-0103-S1U(033016)PDB	86	101	98
50141666003	MW-0501-S1(033016)PDB	84	105	98

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1516523LCS
Date Extracted: 04/11/2016
Date Analyzed (1): 04/11/2016
Instrument: 50MV3A
LCS Lot No: 118316
Lab File ID: A041116.B\A02LCSW.D
SDG No.: 50141666

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	48.1	96	76-122
Chlorobenzene	50.0	46.9	94	76-118
Chloroform	50.0	47.7	95	70-119
1,1-Dichloroethene	50.0	46.6	93	69-127
cis-1,2-Dichloroethene	50.0	48.3	97	74-120
trans-1,2-Dichloroethene	50.0	47.2	94	72-122
1,2-Dichloropropane	50.0	47.6	95	77-124
Ethylbenzene	50.0	49.4	99	75-123
Isopropylbenzene (Cumene)	50.0	48.7	97	84-134
Methyl-tert-butyl ether	50.0	48.9	98	65-131
1,1,2,2-Tetrachloroethane	50.0	45.4	91	72-124
Tetrachloroethene	50.0	51.6	103	69-119
Toluene	50.0	44.7	89	74-122
1,1,1-Trichloroethane	50.0	51.6	103	72-123
Trichloroethene	50.0	48.3	97	75-123
Vinyl chloride	50.0	45.3	91	61-147
Xylene (Total)	150	143	95	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1516494LCS
Date Extracted: 04/11/2016
Date Analyzed (1): 04/11/2016
Instrument: 50MV3A
LCS Lot No: 118316
Lab File ID: A041116.B\C02LCSW.D
SDG No.: 50141666

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	46.9	94	76-122
Chlorobenzene	50.0	47.8	96	76-118
Chloroform	50.0	47.2	94	70-119
1,1-Dichloroethene	50.0	46.2	92	69-127
cis-1,2-Dichloroethene	50.0	49.1	98	74-120
trans-1,2-Dichloroethene	50.0	45.6	91	72-122
1,2-Dichloropropane	50.0	47.1	94	77-124
Ethylbenzene	50.0	50.4	101	75-123
Isopropylbenzene (Cumene)	50.0	49.7	99	84-134
Methyl-tert-butyl ether	50.0	49.4	99	65-131
1,1,2,2-Tetrachloroethane	50.0	46.6	93	72-124
Tetrachloroethene	50.0	52.2	104	69-119
Toluene	50.0	44.5	89	74-122
1,1,1-Trichloroethane	50.0	50.2	100	72-123
Trichloroethene	50.0	46.8	94	75-123
Vinyl chloride	50.0	44.8	90	61-147
Xylene (Total)	150	147	98	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1516502LCS
Date Extracted: 04/11/2016
Date Analyzed (1): 04/11/2016
Instrument: 50MV3B
LCS Lot No: 118316
Lab File ID: B041116.B\D02LCSW.D
SDG No.: 50141666

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	47.0	94	76-122
Chlorobenzene	50.0	46.2	92	76-118
Chloroform	50.0	47.6	95	70-119
1,1-Dichloroethene	50.0	44.1	88	69-127
cis-1,2-Dichloroethene	50.0	49.8	100	74-120
trans-1,2-Dichloroethene	50.0	46.6	93	72-122
1,2-Dichloropropane	50.0	46.8	94	77-124
Ethylbenzene	50.0	47.7	95	75-123
Isopropylbenzene (Cumene)	50.0	48.5	97	84-134
Methyl-tert-butyl ether	50.0	47.0	94	65-131
1,1,2,2-Tetrachloroethane	50.0	42.1	84	72-124
Tetrachloroethene	50.0	51.0	102	69-119
Toluene	50.0	44.1	88	74-122
1,1,1-Trichloroethane	50.0	50.3	101	72-123
Trichloroethene	50.0	49.5	99	75-123
Vinyl chloride	50.0	41.8	84	61-147
Xylene (Total)	150	144	96	75-127

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 1516524MS
Date Extracted: 04/11/2016
Date Analyzed (1): 04/11/2016
Instrument: 50MV3A
Lab File ID: A041116.B\A21.D
Parent Sample ID: MW-0501-S1(033016)PDB
SDG No.: 50141666

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	50.0	ND	46.2	92	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	43.1	86	49-138
1,1-Dichloroethene	50.0	ND	44.4	89	51-144
1,2-Dichloropropane	50.0	ND	43.5	87	56-138
Benzene	50.0	ND	44.1	88	51-140
Chlorobenzene	50.0	ND	43.4	87	45-138
Chloroform	50.0	ND	44.0	88	50-135
Ethylbenzene	50.0	ND	45.1	90	36-146
Isopropylbenzene (Cumene)	50.0	ND	46.1	92	43-159
Methyl-tert-butyl ether	50.0	ND	43.7	87	43-146
Tetrachloroethene	50.0	ND	48.7	97	38-139
Toluene	50.0	ND	41.6	83	44-140
Trichloroethene	50.0	ND	45.1	90	44-146
Vinyl chloride	50.0	ND	42.9	86	43-166
Xylene (Total)	150	ND	133	88	35-146
cis-1,2-Dichloroethene	50.0	ND	47.4	89	43-144
trans-1,2-Dichloroethene	50.0	ND	42.8	86	50-139

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV3A Matrix Spike Duplicate - Sample No: 1516525MSD

Lab File ID (2): A041116.B\A22.D Date Analyzed (2): 04/11/2016

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	50.0	46.9	94	1	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	46.2	92	7	0-20	49-138
1,1-Dichloroethene	50.0	42.5	85	5	0-20	51-144
1,2-Dichloropropane	50.0	44.9	90	3	0-20	56-138
Benzene	50.0	44.6	89	1	0-20	51-140
Chlorobenzene	50.0	44.7	89	3	0-20	45-138
Chloroform	50.0	44.3	89	1	0-20	50-135
Ethylbenzene	50.0	46.4	93	3	0-20	36-146
Isopropylbenzene (Cumene)	50.0	47.3	95	2	0-20	43-159
Methyl-tert-butyl ether	50.0	46.7	93	7	0-20	43-146
Tetrachloroethene	50.0	48.4	97	1	0-20	38-139
Toluene	50.0	41.0	81	2	0-20	44-140
Trichloroethene	50.0	45.2	90	0	0-20	44-146
Vinyl chloride	50.0	42.4	85	1	0-20	43-166
Xylene (Total)	150	136	90	2	0-20	35-146
cis-1,2-Dichloroethene	50.0	49.0	92	3	0-20	43-144
trans-1,2-Dichloroethene	50.0	42.9	86	0	0-20	50-139

RPD: 0 out of 17 outside limits.

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 1516495MS
Date Extracted: 04/12/2016
Date Analyzed (1): 04/12/2016
Instrument: 50MV3A
Lab File ID: A041116.B\C20.D
Parent Sample ID: MW-0503-S1(033016)PDB
SDG No.: 50141666

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	50.0	ND	50.6	101	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	45.2	90	49-138
1,1-Dichloroethene	50.0	ND	50.9	102	51-144
1,2-Dichloropropane	50.0	ND	47.8	96	56-138
Benzene	50.0	ND	48.5	97	51-140
Chlorobenzene	50.0	ND	48.0	96	45-138
Chloroform	50.0	ND	48.8	98	50-135
Ethylbenzene	50.0	ND	50.2	100	36-146
Isopropylbenzene (Cumene)	50.0	ND	50.1	100	43-159
Methyl-tert-butyl ether	50.0	ND	45.8	92	43-146
Tetrachloroethene	50.0	ND	49.6	99	38-139
Toluene	50.0	ND	43.8	87	44-140
Trichloroethene	50.0	ND	49.0	98	44-146
Vinyl chloride	50.0	ND	49.5	99	43-166
Xylene (Total)	150	ND	144	96	35-146
cis-1,2-Dichloroethene	50.0	ND	49.7	99	43-144
trans-1,2-Dichloroethene	50.0	ND	46.2	92	50-139

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV3A Matrix Spike Duplicate - Sample No: 1516496MSD

Lab File ID (2): A041116.B\C21.D Date Analyzed (2): 04/12/2016

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	50.0	52.5	105	4	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	45.2	90	0	0-20	49-138
1,1-Dichloroethene	50.0	51.2	102	1	0-20	51-144
1,2-Dichloropropane	50.0	49.6	99	4	0-20	56-138
Benzene	50.0	49.3	99	2	0-20	51-140
Chlorobenzene	50.0	49.0	98	2	0-20	45-138
Chloroform	50.0	49.6	99	1	0-20	50-135
Ethylbenzene	50.0	51.8	104	3	0-20	36-146
Isopropylbenzene (Cumene)	50.0	52.5	105	5	0-20	43-159
Methyl-tert-butyl ether	50.0	47.4	95	4	0-20	43-146
Tetrachloroethene	50.0	52.2	104	5	0-20	38-139
Toluene	50.0	46.1	92	5	0-20	44-140
Trichloroethene	50.0	49.8	100	2	0-20	44-146
Vinyl chloride	50.0	50.2	100	1	0-20	43-166
Xylene (Total)	150	153	102	6	0-20	35-146
cis-1,2-Dichloroethene	50.0	50.2	100	1	0-20	43-144
trans-1,2-Dichloroethene	50.0	47.9	96	4	0-20	50-139

RPD: 0 out of 17 outside limits.

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - Indiana
Matrix Spike - Sample No: 1516503MS
Date Extracted: 04/12/2016
Date Analyzed (1): 04/12/2016
Instrument: 50MV3B
Lab File ID: B041116.B\D20.D
Parent Sample ID: MW-0705-S1(033016)PDB
SDG No.: 50141666

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1-Trichloroethane	50.0	ND	53.9	108	51-140
1,1,2,2-Tetrachloroethane	50.0	ND	45.2	90	49-138
1,1-Dichloroethene	50.0	ND	52.9	106	51-144
1,2-Dichloropropane	50.0	ND	49.5	99	56-138
Benzene	50.0	ND	51.4	103	51-140
Chlorobenzene	50.0	ND	49.3	99	45-138
Chloroform	50.0	ND	51.9	104	50-135
Ethylbenzene	50.0	ND	51.2	102	36-146
Isopropylbenzene (Cumene)	50.0	ND	51.4	103	43-159
Methyl-tert-butyl ether	50.0	ND	48.7	97	43-146
Tetrachloroethene	50.0	ND	52.2	104	38-139
Toluene	50.0	ND	46.9	93	44-140
Trichloroethene	50.0	135	159	47	44-146
Vinyl chloride	50.0	3.4	52.4	98	43-166
Xylene (Total)	150	ND	148	99	35-146
cis-1,2-Dichloroethene	50.0	46.5	92.8	92	43-144
trans-1,2-Dichloroethene	50.0	11.6	57.3	91	50-139

Spike Recovery: 0 out of 17 outside limits.

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 50MV3B Matrix Spike Duplicate - Sample No: 1516504MSD

Lab File ID (2): B041116.B\D21.D Date Analyzed (2): 04/12/2016

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	50.0	56.3	113	4	0-20	51-140
1,1,2,2-Tetrachloroethane	50.0	51.6	103	13	0-20	49-138
1,1-Dichloroethene	50.0	53.7	107	2	0-20	51-144
1,2-Dichloropropane	50.0	49.9	100	1	0-20	56-138
Benzene	50.0	53.4	107	4	0-20	51-140
Chlorobenzene	50.0	50.2	100	2	0-20	45-138
Chloroform	50.0	54.8	110	6	0-20	50-135
Ethylbenzene	50.0	52.4	105	2	0-20	36-146
Isopropylbenzene (Cumene)	50.0	53.2	106	3	0-20	43-159
Methyl-tert-butyl ether	50.0	54.0	108	10	0-20	43-146
Tetrachloroethene	50.0	52.2	104	0	0-20	38-139
Toluene	50.0	48.6	97	4	0-20	44-140
Trichloroethene	50.0	164	58	3	0-20	44-146
Vinyl chloride	50.0	52.7	99	1	0-20	43-166
Xylene (Total)	150	155	103	5	0-20	35-146
cis-1,2-Dichloroethene	50.0	96.8	101	4	0-20	43-144
trans-1,2-Dichloroethene	50.0	62.4	102	9	0-20	50-139

RPD: 0 out of 17 outside limits.

Spike Recovery: 0 out of 17 outside limits.

SAMPLE NO.

1516493BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3A Matrix: Water Lab Sample ID: 1516493

Lab File ID: A041116.B\C03MBW.D Date Analyzed: 04/12/2016 Time: 00:02

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1516494LCS	1516494	A041116.B\C02LCSW.D	04/11/2016 23:30
MW-0502-S1(033016)PDB	50141666004	A041116.B\C04.D	04/12/2016 00:34
MW-0503-S1(033016)PDB	50141666005	A041116.B\C05.D	04/12/2016 01:06
MW-0505-S1(033016)PDB	50141666006	A041116.B\C06.D	04/12/2016 01:38
EB-1(033016)-LM	50141666007	A041116.B\C07.D	04/12/2016 02:10
MW-0506-S1(033016)PDB	50141666008	A041116.B\C08.D	04/12/2016 02:42
MW-0507-S1(033016)PDB	50141666009	A041116.B\C09.D	04/12/2016 03:14
MW-0509-S1(033016)PDB	50141666010	A041116.B\C10.D	04/12/2016 03:46
MW-0516-S1(033016)PDB	50141666011	A041116.B\C11.D	04/12/2016 04:18
FD-1(033016)-LM	50141666012	A041116.B\C12.D	04/12/2016 04:50
MW-0602-S1(033016)PDB	50141666013	A041116.B\C13.D	04/12/2016 05:22
MW-0604-S1(033016)PDB	50141666015	A041116.B\C14.D	04/12/2016 05:54
MW-0604-S1(033016)PDB	50141666015	A041116.B\C15.D	04/12/2016 06:26
MW-0605-S1(033016)PDB	50141666016	A041116.B\C16.D	04/12/2016 06:58
MW-0605-S1(033016)PDB	50141666016	A041116.B\C17.D	04/12/2016 07:30
MW-0608-S1(033016)PDB	50141666018	A041116.B\C18.D	04/12/2016 08:02
1516495MS	1516495	A041116.B\C20.D	04/12/2016 09:06
1516496MSD	1516496	A041116.B\C21.D	04/12/2016 09:38
MW-0604-S1(033016)PDB	50141666015	A041216.B\G04.D	04/13/2016 01:48

SAMPLE NO.

1516501BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3B Matrix: Water Lab Sample ID: 1516501

Lab File ID: B041116.B\D03MBW.D Date Analyzed: 04/12/2016 Time: 00:18

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1516502LCS	1516502	B041116.B\D02LCSW.D	04/11/2016 23:46
MW-0603-S1(033016)PDB	50141666014	B041116.B\D04.D	04/12/2016 00:50
MW-0607-S1(033016)PDB	50141666017	B041116.B\D05.D	04/12/2016 01:22
MW-0610-S1(033016)PDB	50141666020	B041116.B\D06.D	04/12/2016 01:54
MW-0613-S1(033016)PDB	50141666021	B041116.B\D07.D	04/12/2016 02:26
EB-2(033016)-LM	50141666022	B041116.B\D08.D	04/12/2016 02:58
MW-0618-S1(033016)PDB	50141666024	B041116.B\D09.D	04/12/2016 03:30
MW-0619-S1(033016)PDB	50141666025	B041116.B\D10.D	04/12/2016 04:02
FD-2(033016)-LM	50141666027	B041116.B\D11.D	04/12/2016 04:34
MW-0623-S1(033016)PDB	50141666028	B041116.B\D12.D	04/12/2016 05:06
MW-0705-S1(033016)PDB	50141666029	B041116.B\D13.D	04/12/2016 05:38
MW-0609-S1(033016)PDB	50141666019	B041116.B\D14.D	04/12/2016 06:10
MW-0617-S1(033016)PDB	50141666023	B041116.B\D16.D	04/12/2016 07:14
MW-0620-S1(033016)PDB	50141666026	B041116.B\D18.D	04/12/2016 08:18
1516503MS	1516503	B041116.B\D20.D	04/12/2016 09:22
1516504MSD	1516504	B041116.B\D21.D	04/12/2016 09:54

SAMPLE NO.

1516522BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Instrument ID: 50MV3A Matrix: Water Lab Sample ID: 1516522

Lab File ID: A041116.B\A03MBW.D Date Analyzed: 04/11/2016 Time: 11:42

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1516523LCS	1516523	A041116.B\A02LCSW.D	04/11/2016 11:10
TB-01(033016)-LM	50141666001	A041116.B\A18.D	04/11/2016 19:45
MW-0103-S1U(033016)PDB	50141666002	A041116.B\A19.D	04/11/2016 20:17
MW-0501-S1(033016)PDB	50141666003	A041116.B\A20.D	04/11/2016 20:49
1516524MS	1516524	A041116.B\A21.D	04/11/2016 21:21
1516525MSD	1516525	A041116.B\A22.D	04/11/2016 21:53

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Lab File ID: A032516CAL.B\A00BFB.D BFB Injection Date: 03/25/2016

Instrument ID: 50MV3A BFB Injection Time: 13:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	22.45	
75	30.00 - 60.00% of mass 95	52.93	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	7.10	
173	Less than 2.00% of mass 174	0.36	(0.60)[1]
174	50.00 - 100.00% of mass 95	59.60	
175	5.00 - 9.00% of mass 174	4.74	(7.95)[1]
176	95.00 - 101.00% of mass 174	57.37	(96.26)[1]
177	5.00 - 9.00% of mass 176	4.88	(8.50)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9524616CAL1	9524616CAL1	A032516CAL.B\A04CAL1.D	03/25/2016	15:37
9524614CAL2	9524614CAL2	A032516CAL.B\A05CAL2.D	03/25/2016	16:09
9524618CAL3	9524618CAL3	A032516CAL.B\A06CAL3.D	03/25/2016	16:41
9524612CAL4	9524612CAL4	A032516CAL.B\A07CAL4.D	03/25/2016	17:13
9524610CAL5	9524610CAL5	A032516CAL.B\A08CAL5.D	03/25/2016	17:45
9524611CAL6	9524611CAL6	A032516CAL.B\A09CAL6.D	03/25/2016	18:17
9524619CAL7	9524619CAL7	A032516CAL.B\A10CAL7.D	03/25/2016	18:49
9524609CAL8	9524609CAL8	A032516CAL.B\A11CAL8.D	03/25/2016	19:21
9524613ICV	9524613ICV	A032516CAL.B\A13ICV.D	03/25/2016	20:26

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5
Lab File ID: A041116.B\A00BFB.D BFB Injection Date: 04/11/2016
Instrument ID: 50MV3A BFB Injection Time: 10:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	27.73	
75	30.00 - 60.00% of mass 95	55.78	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	5.97	
173	Less than 2.00% of mass 174	0.10	(0.13)[1]
174	50.00 - 100.00% of mass 95	76.97	
175	5.00 - 9.00% of mass 174	6.26	(8.14)[1]
176	95.00 - 101.00% of mass 174	77.13	(100.20)[1]
177	5.00 - 9.00% of mass 176	5.02	(6.51)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9564609CCV	9564609CCV	A041116.B\A01CCV.D	04/11/2016	10:38
1516523LCS	1516523LCS	A041116.B\A02LCSW.D	04/11/2016	11:10
1516522BLANK	1516522BLANK	A041116.B\A03MBW.D	04/11/2016	11:42
TB-01(033016)-LM	50141666001	A041116.B\A18.D	04/11/2016	19:45
MW-0103-S1U(033016)PDB	50141666002	A041116.B\A19.D	04/11/2016	20:17
MW-0501-S1(033016)PDB	50141666003	A041116.B\A20.D	04/11/2016	20:49
1516524MS	1516524MS	A041116.B\A21.D	04/11/2016	21:21
1516525MSD	1516525MSD	A041116.B\A22.D	04/11/2016	21:53

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5
Lab File ID: A041116.B\C00BFB.D BFB Injection Date: 04/11/2016
Instrument ID: 50MV3A BFB Injection Time: 22:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	25.93	
75	30.00 - 60.00% of mass 95	54.17	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.48	
173	Less than 2.00% of mass 174	0.26	(0.33)[1]
174	50.00 - 100.00% of mass 95	78.60	
175	5.00 - 9.00% of mass 174	5.94	(7.56)[1]
176	95.00 - 101.00% of mass 174	78.24	(99.53)[1]
177	5.00 - 9.00% of mass 176	5.32	(6.80)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1516494LCS	1516494LCS	A041116.B\C02LCSW.D	04/11/2016	23:30
9564579CCV	9564579CCV	A041116.B\C02LCSW-CCV.D	04/11/2016	23:30
1516493BLANK	1516493BLANK	A041116.B\C03MBW.D	04/12/2016	00:02
MW-0502-S1(033016)PDB	50141666004	A041116.B\C04.D	04/12/2016	00:34
MW-0503-S1(033016)PDB	50141666005	A041116.B\C05.D	04/12/2016	01:06
MW-0505-S1(033016)PDB	50141666006	A041116.B\C06.D	04/12/2016	01:38
EB-1(033016)-LM	50141666007	A041116.B\C07.D	04/12/2016	02:10
MW-0506-S1(033016)PDB	50141666008	A041116.B\C08.D	04/12/2016	02:42
MW-0507-S1(033016)PDB	50141666009	A041116.B\C09.D	04/12/2016	03:14
MW-0509-S1(033016)PDB	50141666010	A041116.B\C10.D	04/12/2016	03:46
MW-0516-S1(033016)PDB	50141666011	A041116.B\C11.D	04/12/2016	04:18
FD-1(033016)-LM	50141666012	A041116.B\C12.D	04/12/2016	04:50
MW-0602-S1(033016)PDB	50141666013	A041116.B\C13.D	04/12/2016	05:22
MW-0604-S1(033016)PDB	50141666015	A041116.B\C14.D	04/12/2016	05:54
MW-0604-S1(033016)PDB	50141666015	A041116.B\C15.D	04/12/2016	06:26
MW-0605-S1(033016)PDB	50141666016	A041116.B\C16.D	04/12/2016	06:58
MW-0605-S1(033016)PDB	50141666016	A041116.B\C17.D	04/12/2016	07:30
MW-0608-S1(033016)PDB	50141666018	A041116.B\C18.D	04/12/2016	08:02
1516495MS	1516495MS	A041116.B\C20.D	04/12/2016	09:06
1516496MSD	1516496MSD	A041116.B\C21.D	04/12/2016	09:38

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Lab File ID: A041216.B\G01CCV-BFB.D BFB Injection Date: 04/13/2016

Instrument ID: 50MV3A BFB Injection Time: 00:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	27.14	
75	30.00 - 60.00% of mass 95	57.24	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	5.94	
173	Less than 2.00% of mass 174	0.89	(1.15)[1]
174	50.00 - 100.00% of mass 95	77.07	
175	5.00 - 9.00% of mass 174	5.68	(7.36)[1]
176	95.00 - 101.00% of mass 174	73.42	(95.26)[1]
177	5.00 - 9.00% of mass 176	4.52	(6.16)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9568164CCV	9568164CCV	A041216.B\G01CCV.D	04/13/2016	00:12
MW-0604-S1(033016)PDB	50141666015	A041216.B\G04.D	04/13/2016	01:48
MW-0620-S1(033016)PDB	50141666026	A041216.B\G05.D	04/13/2016	02:20
FD-2(033016)-LM	50141666027	A041216.B\G06.D	04/13/2016	02:52

MSV - FORM V VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Lab File ID: B032516CAL.B\B00BFB.D BFB Injection Date: 03/25/2016

Instrument ID: 50MV3B BFB Injection Time: 13:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	21.22	
75	30.00 - 60.00% of mass 95	55.54	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.27	
173	Less than 2.00% of mass 174	0.00	
174	50.00 - 100.00% of mass 95	74.56	
175	5.00 - 9.00% of mass 174	5.03	(6.74)[1]
176	95.00 - 101.00% of mass 174	70.94	(95.14)[1]
177	5.00 - 9.00% of mass 176	4.82	(6.80)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9524623CAL1	9524623CAL1	B032516CAL.B\B04CAL1.D	03/25/2016	15:53
9524628CAL2	9524628CAL2	B032516CAL.B\B05CAL2.D	03/25/2016	16:25
9524620CAL3	9524620CAL3	B032516CAL.B\B06CAL3.D	03/25/2016	16:57
9524624CAL4	9524624CAL4	B032516CAL.B\B07CAL4.D	03/25/2016	17:29
9524625CAL5	9524625CAL5	B032516CAL.B\B08CAL5.D	03/25/2016	18:01
9524626CAL6	9524626CAL6	B032516CAL.B\B09CAL6.D	03/25/2016	18:33
9524621CAL7	9524621CAL7	B032516CAL.B\B10CAL7.D	03/25/2016	19:05
9524622CAL8	9524622CAL8	B032516CAL.B\B11CAL8.D	03/25/2016	19:37
9524627ICV	9524627ICV	B032516CAL.B\B13ICV.D	03/25/2016	20:42

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5
Lab File ID: B041116.B\D00BFB.D BFB Injection Date: 04/11/2016
Instrument ID: 50MV3B BFB Injection Time: 22:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	25.46	
75	30.00 - 60.00% of mass 95	54.91	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.42	
173	Less than 2.00% of mass 174	0.24	(0.28)[1]
174	50.00 - 100.00% of mass 95	84.13	
175	5.00 - 9.00% of mass 174	5.62	(6.68)[1]
176	95.00 - 101.00% of mass 174	80.32	(95.47)[1]
177	5.00 - 9.00% of mass 176	4.99	(6.21)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9565085CCV	9565085CCV	B041116.B\D02LCSW-CCV.D	04/11/2016	23:46
1516502LCS	1516502LCS	B041116.B\D02LCSW.D	04/11/2016	23:46
1516501BLANK	1516501BLANK	B041116.B\D03MBW.D	04/12/2016	00:18
MW-0603-S1(033016)PDB	50141666014	B041116.B\D04.D	04/12/2016	00:50
MW-0607-S1(033016)PDB	50141666017	B041116.B\D05.D	04/12/2016	01:22
MW-0610-S1(033016)PDB	50141666020	B041116.B\D06.D	04/12/2016	01:54
MW-0613-S1(033016)PDB	50141666021	B041116.B\D07.D	04/12/2016	02:26
EB-2(033016)-LM	50141666022	B041116.B\D08.D	04/12/2016	02:58
MW-0618-S1(033016)PDB	50141666024	B041116.B\D09.D	04/12/2016	03:30
MW-0619-S1(033016)PDB	50141666025	B041116.B\D10.D	04/12/2016	04:02
FD-2(033016)-LM	50141666027	B041116.B\D11.D	04/12/2016	04:34
MW-0623-S1(033016)PDB	50141666028	B041116.B\D12.D	04/12/2016	05:06
MW-0705-S1(033016)PDB	50141666029	B041116.B\D13.D	04/12/2016	05:38
MW-0609-S1(033016)PDB	50141666019	B041116.B\D14.D	04/12/2016	06:10
MW-0617-S1(033016)PDB	50141666023	B041116.B\D16.D	04/12/2016	07:14
MW-0620-S1(033016)PDB	50141666026	B041116.B\D18.D	04/12/2016	08:18
1516503MS	1516503MS	B041116.B\D20.D	04/12/2016	09:22
1516504MSD	1516504MSD	B041116.B\D21.D	04/12/2016	09:54

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Sample ID : 9564609CCV Init. Calib. Date: 03/25/2016 Time: 03/25/2016

Instrument ID: 50MV3A GC Column: Col 1 Date Analyzed: 04/11/2016

Lab File ID: A041116.B\A01CCV.D Time Analyzed: 10:38

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		222665	7.342	78181	8.843	504828	4.164
UPPER LIMIT		445330	7.842	156362	9.343	1009656	4.664
LOWER LIMIT		111332.5	6.842	39090.5	8.343	252414	3.664
LAB SAMPLE ID	SAMPLE NO.						
1516522	1516522BLANK	215917	7.342	73324	8.843	463057	4.164
1516523	1516523LCS	239321	7.345	80149	8.841	522552	4.167
1516524	1516524MS	219955	7.343	74623	8.838	481118	4.17
1516525	1516525MSD	253144	7.344	84725	8.84	543720	4.167
50141666001	TB-01(033016)-LM	222383	7.344	76085	8.84	473905	4.166
50141666002	MW-0103-S1U(033016)PDB	211946	7.344	71135	8.839	462384	4.166
50141666003	MW-0501-S1(033016)PDB	212103	7.343	67444	8.839	459709	4.171

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT
* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Sample ID : 9564579CCV Init. Calib. Date: 03/25/2016 Time: 03/25/2016

Instrument ID: 50MV3A GC Column: Col 1 Date Analyzed: 04/11/2016

Lab File ID: A041116.B\C02LCSW-CCV.D Time Analyzed: 23:30

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		240263	7.342	82375	8.843	528808	4.164
UPPER LIMIT		480526	7.842	164750	9.343	1057616	4.664
LOWER LIMIT		120131.5	6.842	41187.5	8.343	264404	3.664
LAB SAMPLE ID	SAMPLE NO.						
1516493	1516493BLANK	227214	7.342	76430	8.843	480556	4.164
1516494	1516494LCS	240263	7.342	82375	8.843	528808	4.164
1516495	1516495MS	178184	7.345	62991	8.841	380861	4.167
1516496	1516496MSD	189891	7.345	66929	8.841	413148	4.167
50141666004	MW-0502-S1(033016)PDB	216796	7.342	73137	8.842	462776	4.164
50141666005	MW-0503-S1(033016)PDB	207522	7.342	70531	8.842	452312	4.169
50141666006	MW-0505-S1(033016)PDB	205114	7.343	67583	8.838	441118	4.165
50141666007	EB-1(033016)-LM	207754	7.342	67323	8.837	440105	4.164
50141666008	MW-0506-S1(033016)PDB	199348	7.342	68295	8.843	431395	4.164
50141666009	MW-0507-S1(033016)PDB	195373	7.343	63678	8.838	424576	4.165
50141666010	MW-0509-S1(033016)PDB	185384	7.342	61734	8.842	391497	4.164
50141666011	MW-0516-S1(033016)PDB	192989	7.344	63131	8.84	425331	4.166
50141666012	FD-1(033016)-LM	184113	7.342	60900	8.843	381804	4.164
50141666013	MW-0602-S1(033016)PDB	182045	7.343	60230	8.838	389843	4.17
50141666015	MW-0604-S1(033016)PDB	177002	7.345	56508	8.841	402526	4.167
50141666015 DL 10	MW-0604-S1(033016)PDB	174561	7.342	57721	8.838	382515	4.165
50141666016	MW-0605-S1(033016)PDB	174202	7.343	58604	8.838	372400	4.165
50141666016 DL 10	MW-0605-S1(033016)PDB	168779	7.345	55639	8.84	354751	4.167
50141666018	MW-0608-S1(033016)PDB	163963	7.342	54727	8.843	352962	4.164

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Sample ID : 9568164CCV Init. Calib. Date: 03/25/2016 Time: 03/25/2016

Instrument ID: 50MV3A GC Column: Col 1 Date Analyzed: 04/13/2016

Lab File ID: A041216.B\G01CCV.D Time Analyzed: 00:12

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		176797	7.342	60914	8.837	359242	4.169
UPPER LIMIT		353594	7.842	121828	9.337	718484	4.669
LOWER LIMIT		88398.5	6.842	30457	8.337	179621	3.669
LAB SAMPLE ID	SAMPLE NO.						
50141666015	MW-0604-S1(033016)PDB	173802	7.345	57713	8.841	352992	4.162
50141666026	MW-0620-S1(033016)PDB	168928	7.341	57698	8.842	347924	4.163
50141666027	FD-2(033016)-LM	164179	7.345	55294	8.841	337816	4.167

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50141666 Contract: Former GM Delco 5

Sample ID : 9565085CCV Init. Calib. Date: 03/25/2016 Time: 03/25/2016

Instrument ID: 50MV3B GC Column: Col 1 Date Analyzed: 04/11/2016

Lab File ID: B041116.B\D02LCSW-CCV.D Time Analyzed: 23:46

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		234591	7.347	89685	8.842	475502	4.174
UPPER LIMIT		469182	7.847	179370	9.342	951004	4.674
LOWER LIMIT		117295.5	6.847	44842.5	8.342	237751	3.674
LAB SAMPLE ID	SAMPLE NO.						
1516501	1516501BLANK	216288	7.343	80757	8.839	423020	4.17
1516502	1516502LCS	234591	7.347	89685	8.842	475502	4.174
1516503	1516503MS	177860	7.345	69797	8.84	352032	4.172
1516504	1516504MSD	189556	7.343	73225	8.844	367262	4.176
50141666014	MW-0603-S1(033016)PDB	206659	7.342	77961	8.843	393038	4.175
50141666017	MW-0607-S1(033016)PDB	198984	7.345	72498	8.841	384258	4.172
50141666019	MW-0609-S1(033016)PDB	167654	7.348	60944	8.843	329517	4.17
50141666020	MW-0610-S1(033016)PDB	190625	7.343	69298	8.838	382862	4.175
50141666021	MW-0613-S1(033016)PDB	185373	7.347	67554	8.842	366106	4.174
50141666022	EB-2(033016)-LM	186148	7.345	67823	8.84	363346	4.172
50141666023	MW-0617-S1(033016)PDB	156229	7.345	57771	8.841	306239	4.173
50141666024	MW-0618-S1(033016)PDB	177926	7.343	66133	8.838	352365	4.17
50141666025	MW-0619-S1(033016)PDB	175857	7.344	63157	8.84	328974	4.172
50141666026	MW-0620-S1(033016)PDB	157467	7.347	57115	8.843	318852	4.175
50141666027	FD-2(033016)-LM	176554	7.347	63504	8.842	353903	4.174
50141666028	MW-0623-S1(033016)PDB	165362	7.347	62779	8.843	337530	4.175
50141666029	MW-0705-S1(033016)PDB	166536	7.344	60414	8.84	321489	4.171

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT
* Values outside of QC Limits

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-01(033016)-LM

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 19:45 Lab Sample ID: 50141666001

Date Analyzed: 04/11/2016 19:45 Lab File ID: A041116.B\A18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TB-01(033016)-LM

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 19:45 Lab Sample ID: 50141666001

Date Analyzed: 04/11/2016 19:45 Lab File ID: A041116.B\A18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a18.d
Lab Smp Id: 50141666001 Client Smp ID: TB-01(033016)-LM
Inj Date : 11-APR-2016 19:45
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666001
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

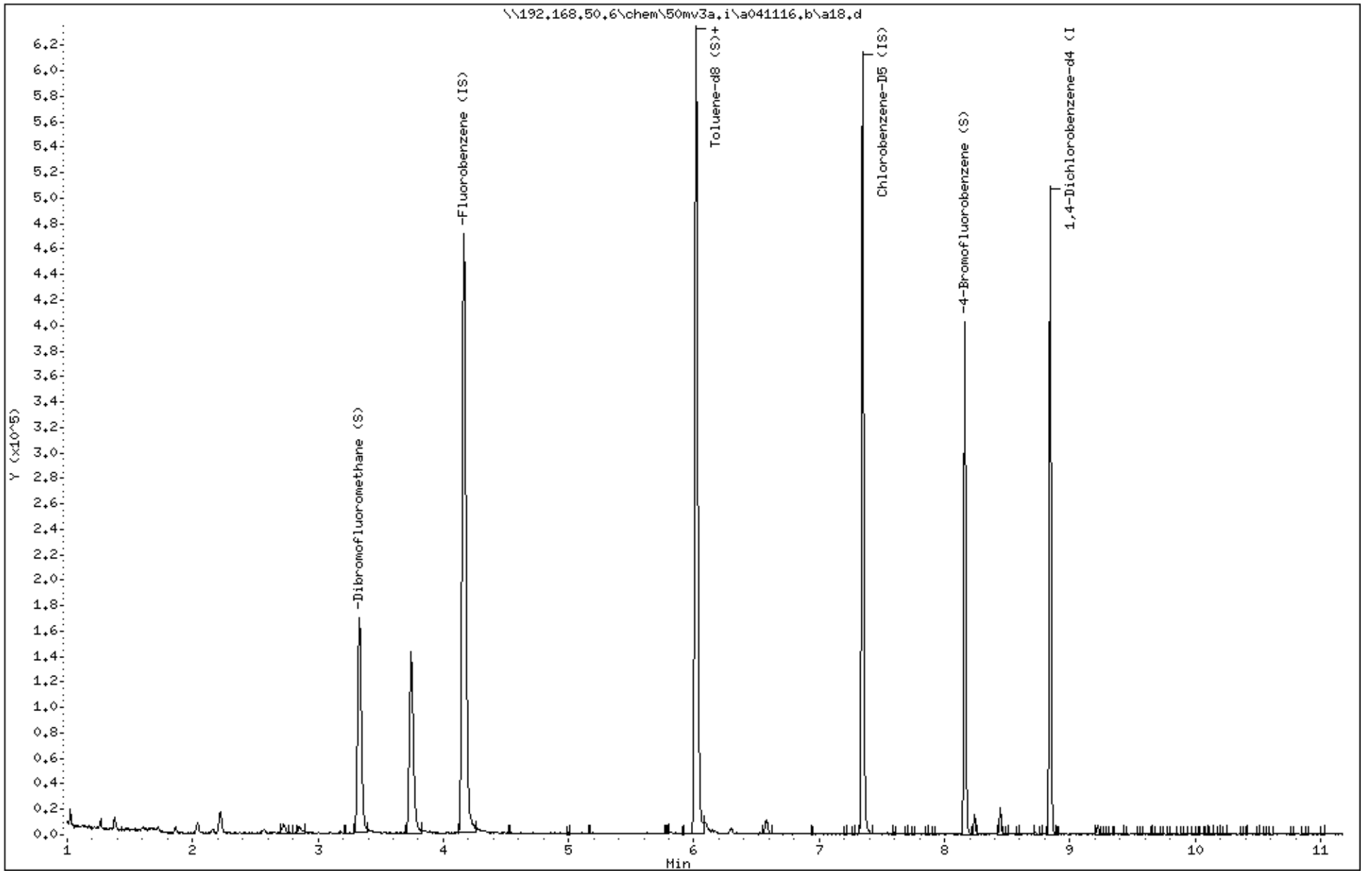
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
$ 35 Dibromofluoromethane (S)	113	3.333	3.330	(0.800)	112892	52.8697	52.9	
* 45 Fluorobenzene (IS)	96	4.166	4.163	(1.000)	473905	50.0000		
$ 56 Toluene-d8 (S)	98	6.019	6.017	(0.820)	373901	48.9405	48.9	
57 Toluene	91	6.094	6.091	(0.830)	3238	0.33060	0.331	
* 66 Chlorobenzene-D5 (IS)	117	7.344	7.341	(1.000)	222383	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.111)	80010	43.5442	43.5	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	76085	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a18.d
Date : 11-APR-2016 19:45
Client ID: TB-01(033016)-LM
Sample Info: 50141666001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a18.d

Date : 11-APR-2016 19:45

Client ID: TB-01(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666001

Purge Volume: 5.0

Operator: jlz

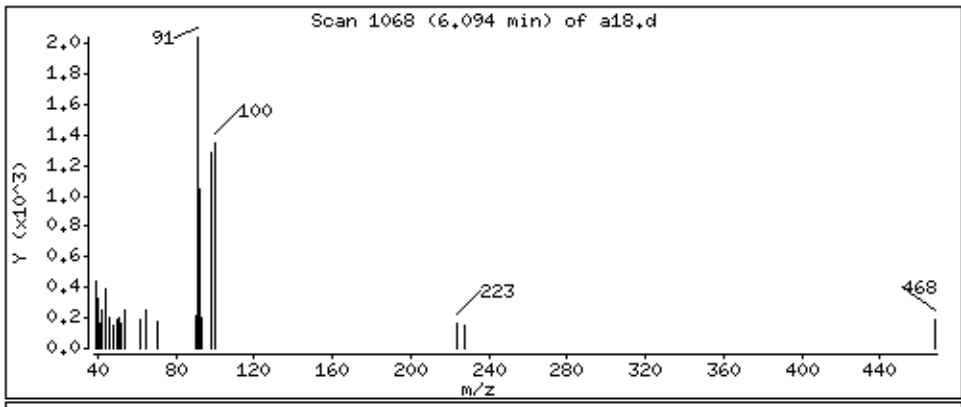
Column phase: DB-624

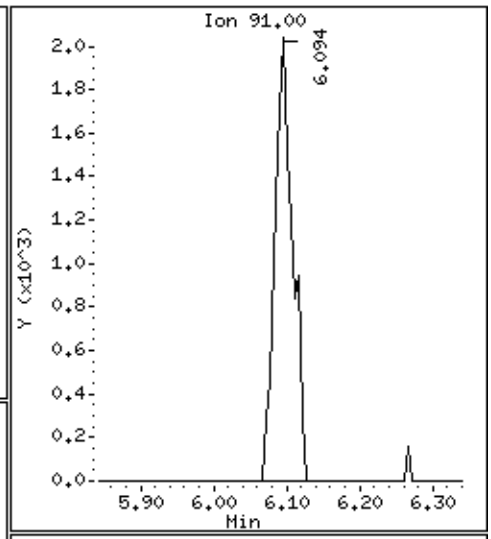
Column diameter: 0.18

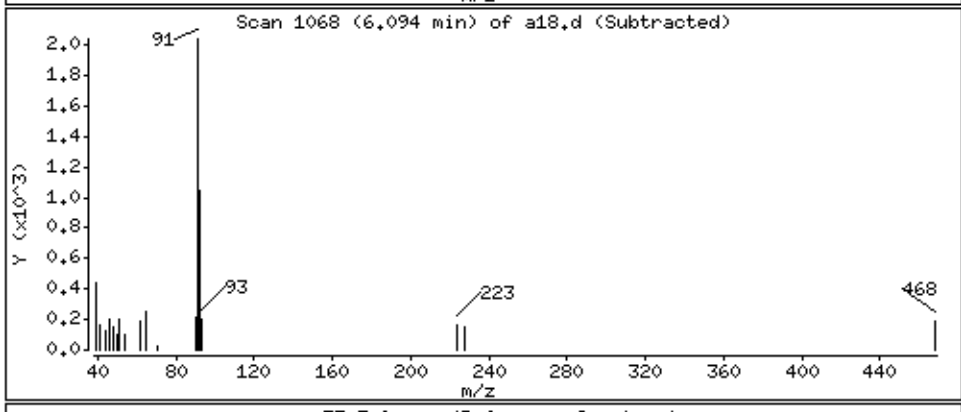
57 Toluene

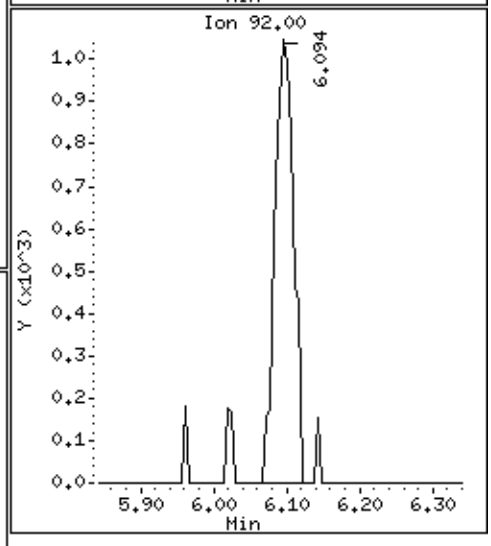
Concentration: 0.331 ppb

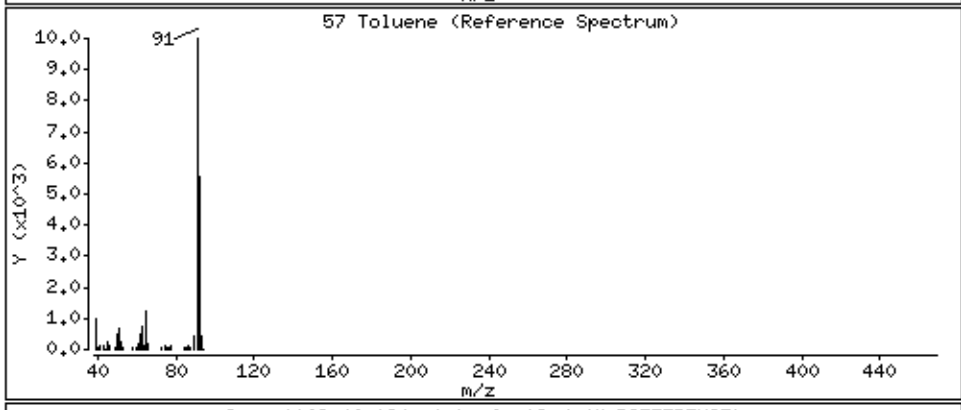
Review Code:

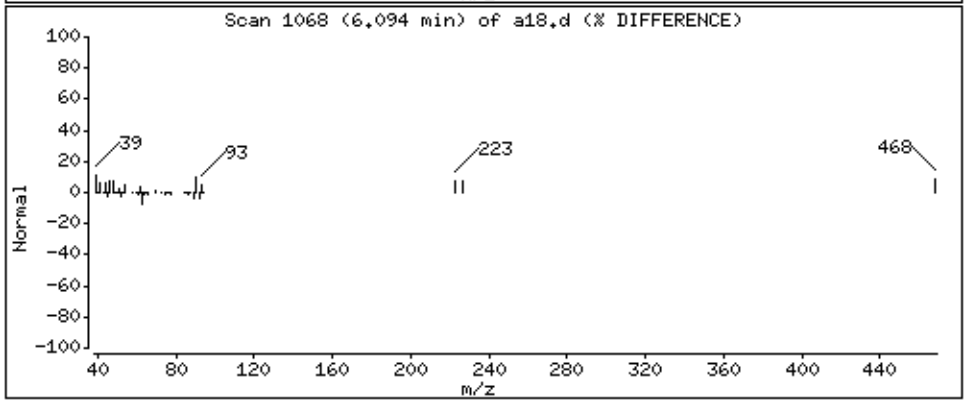












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a18.d
Injection Date: 11-APR-2016 19:45
Instrument: 50mv3a.i
Lab Sample ID: 50141666001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0103-S1U(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 20:17 Lab Sample ID: 50141666002

Date Analyzed: 04/11/2016 20:17 Lab File ID: A041116.B\A19.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	7.6	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0103-S1U(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 20:17 Lab Sample ID: 50141666002

Date Analyzed: 04/11/2016 20:17 Lab File ID: A041116.B\A19.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	5.3	
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d
Lab Smp Id: 50141666002 Client Smp ID: MW-0103-S1U(033016)
Inj Date : 11-APR-2016 20:17
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666002
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

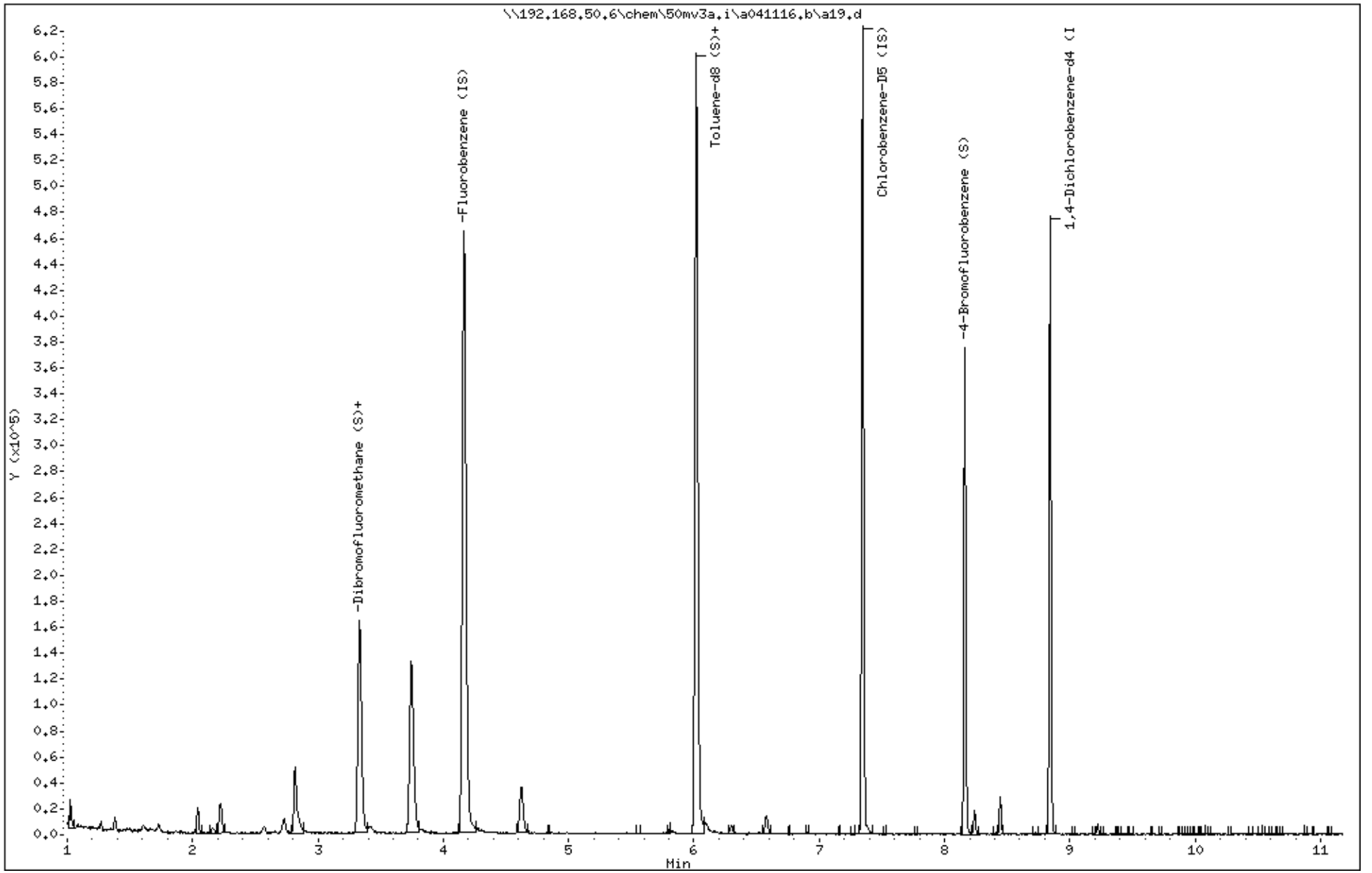
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.607	1.605	(0.386)	3739	6.39480	6.39	
	24 Vinyl Acetate	43	2.221	2.326	(0.533)	6668	1.63816	1.64	
	28 1,2-Dichloroethene (cis)	96	2.819	2.812	(0.677)	19341	7.63436	7.63	
$	35 Dibromofluoromethane (S)	113	3.332	3.330	(0.800)	105617	50.6951	50.7	
	37 Cyclohexane	56	3.418	3.421	(0.821)	1806	0.37846	0.378	
*	45 Fluorobenzene (IS)	96	4.165	4.163	(1.000)	462384	50.0000		
	46 Trichloroethene	95	4.619	4.612	(1.109)	12432	5.30461	5.30	
$	56 Toluene-d8 (S)	98	6.019	6.017	(0.820)	356087	48.9040	48.9	
	57 Toluene	91	6.099	6.091	(0.831)	3041	0.32578	0.326	
*	66 Chlorobenzene-D5 (IS)	117	7.343	7.341	(1.000)	211946	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.111)	75514	43.1211	43.1	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	71135	50.0000		

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d
Date : 11-APR-2016 20:17
Client ID: MW-0103-S1U(033016)
Sample Info: 50141666002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

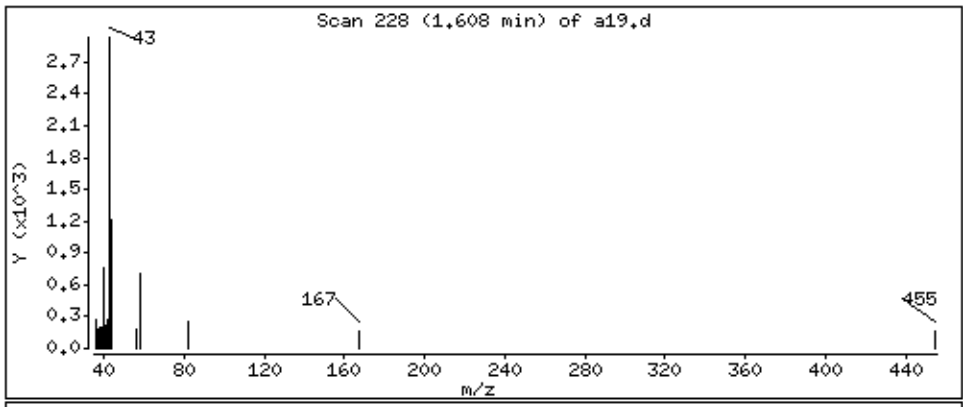
Column phase: DB-624

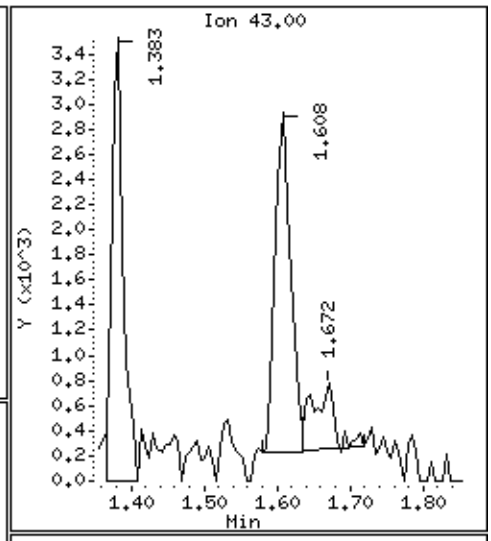
Column diameter: 0.18

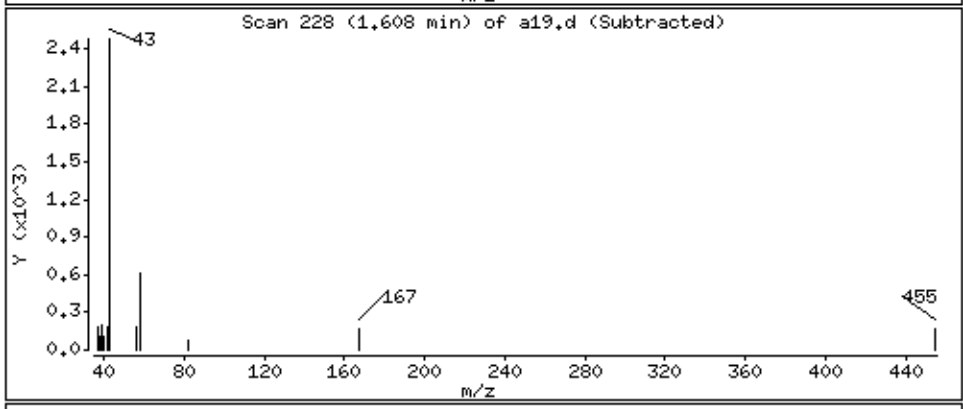
12 Acetone

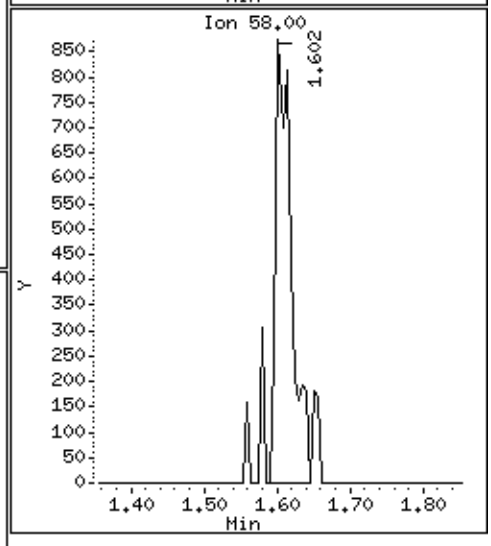
Concentration: 6.39 ppb

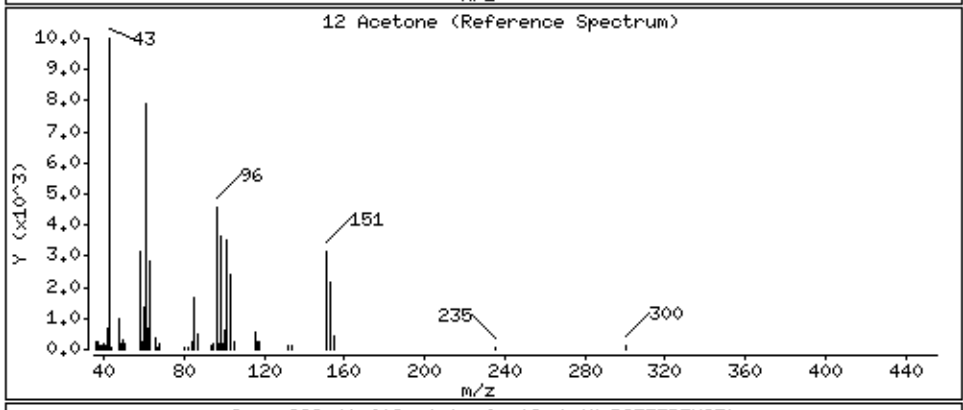
Review Code:

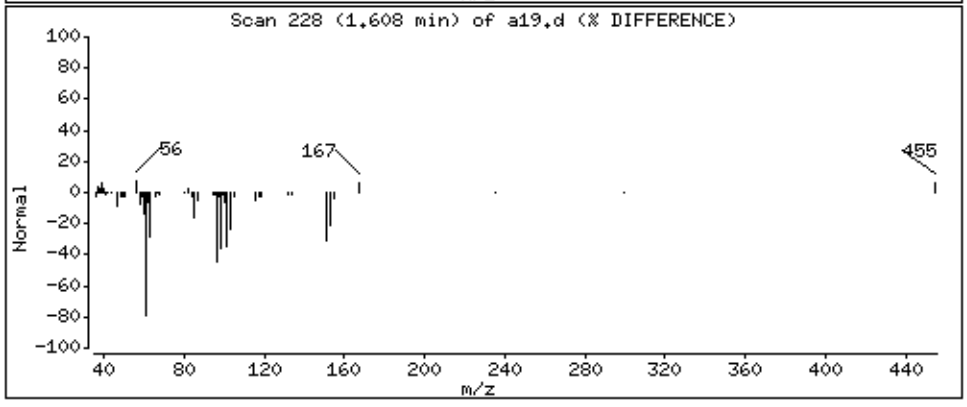












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

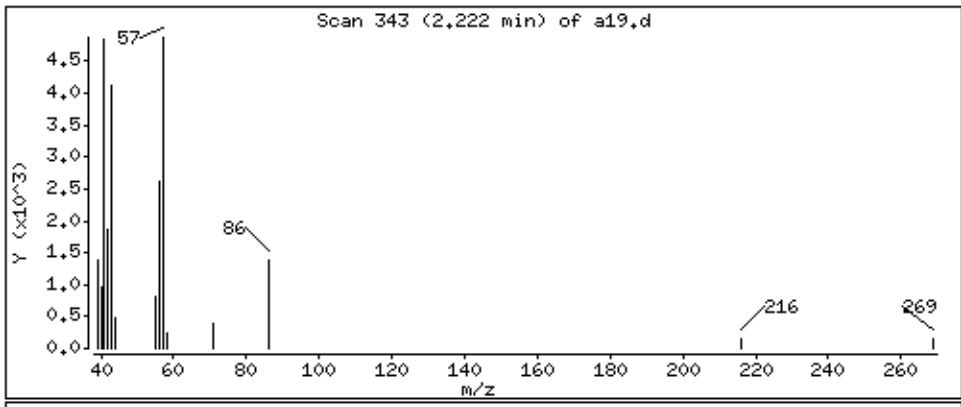
Column phase: DB-624

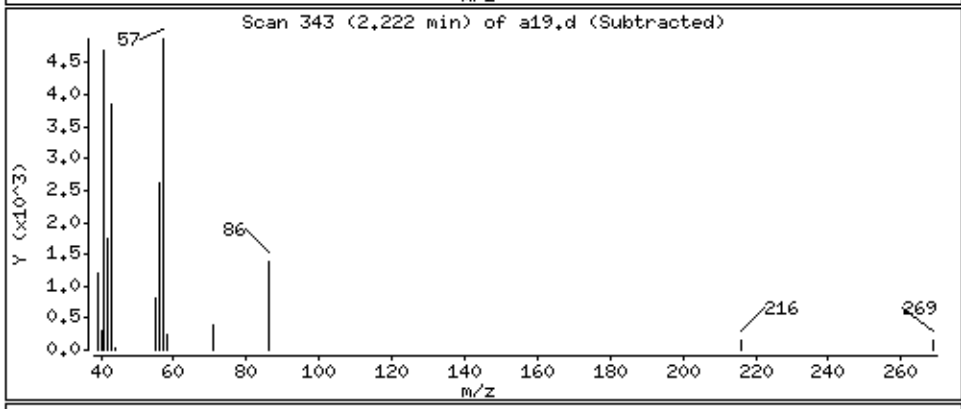
Column diameter: 0.18

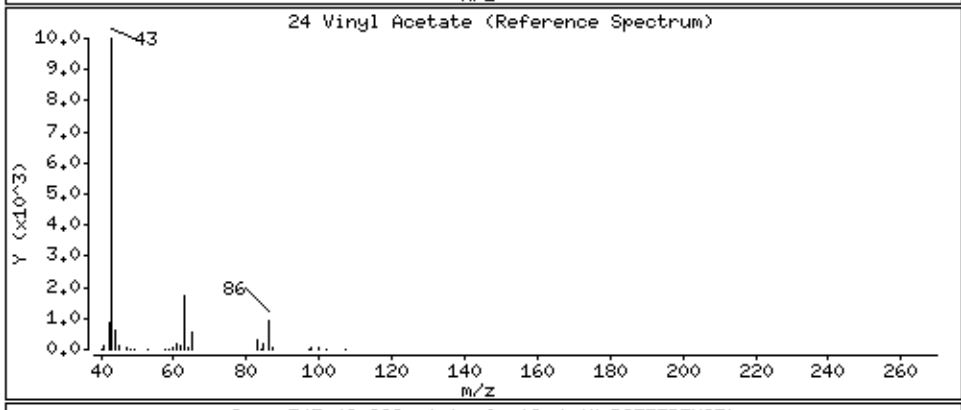
24 Vinyl Acetate

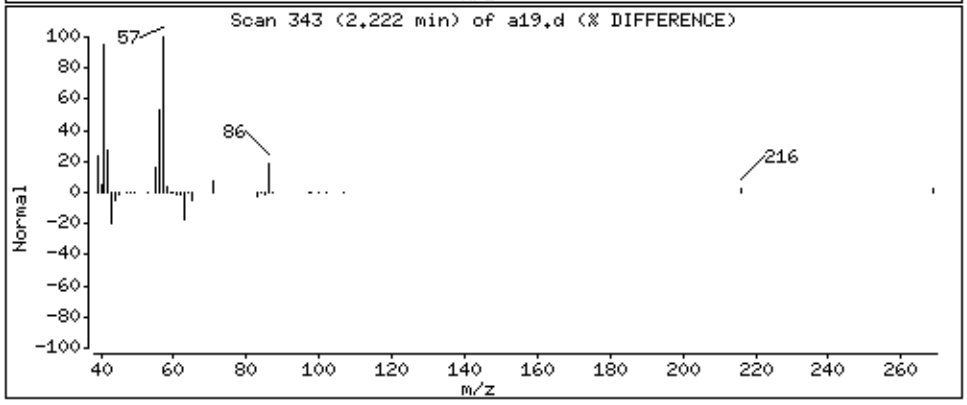
Concentration: 1.64 ppb

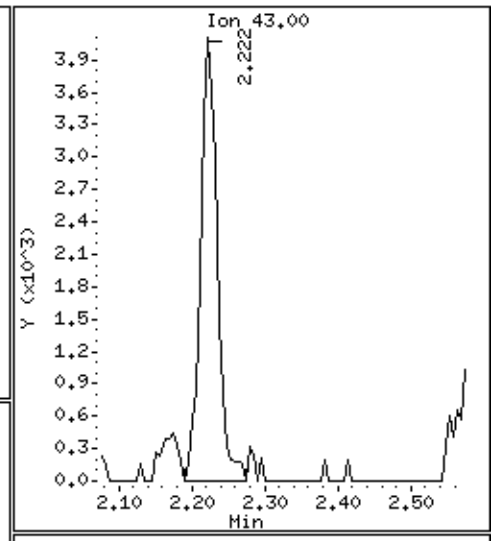
Review Code:

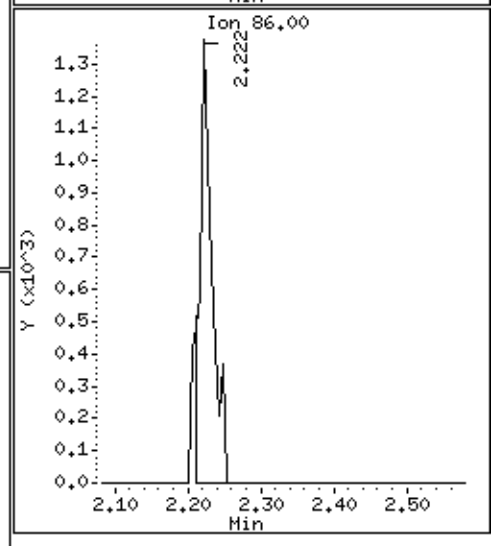












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

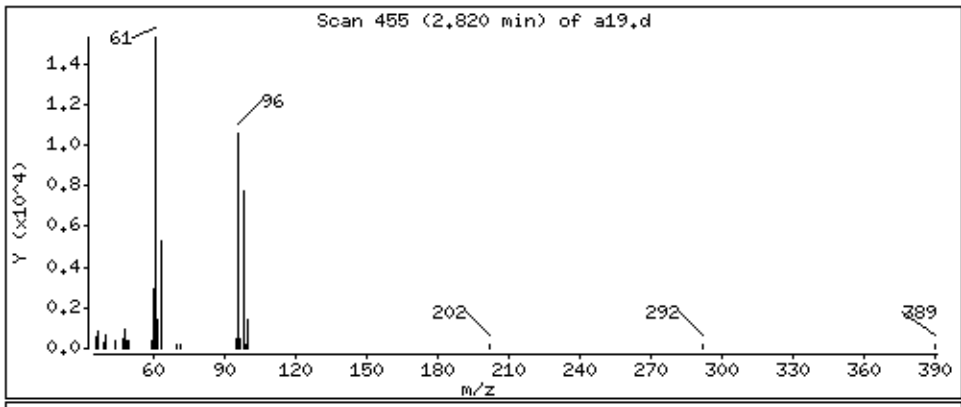
Column phase: DB-624

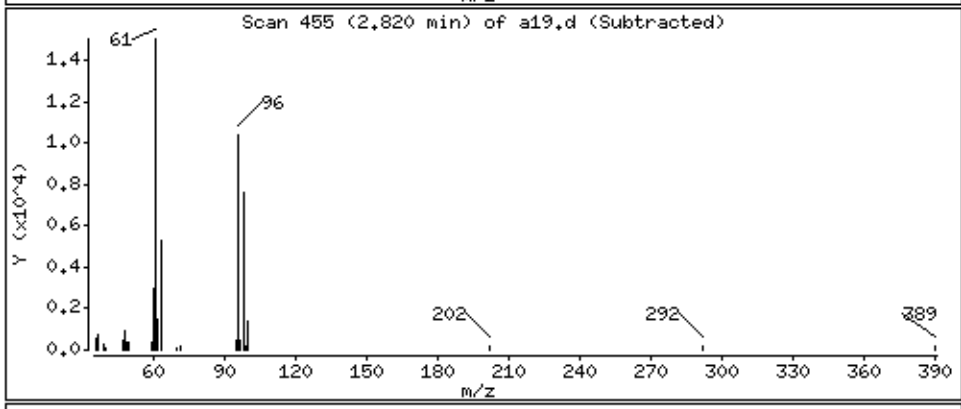
Column diameter: 0.18

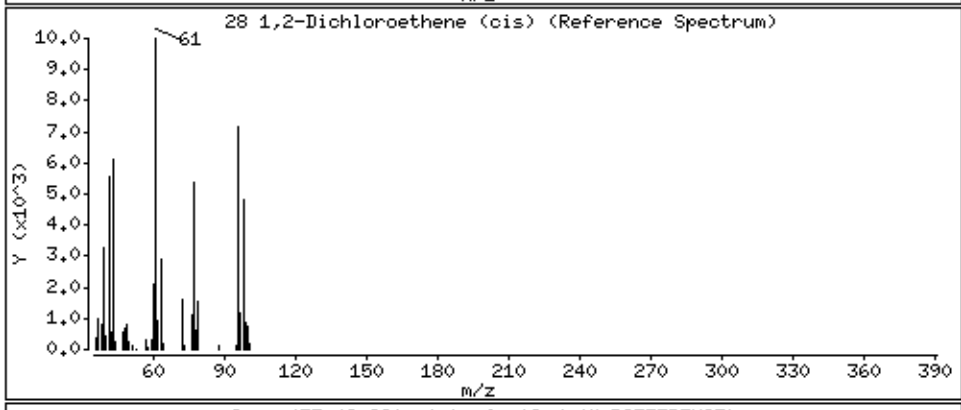
28 1,2-Dichloroethene (cis)

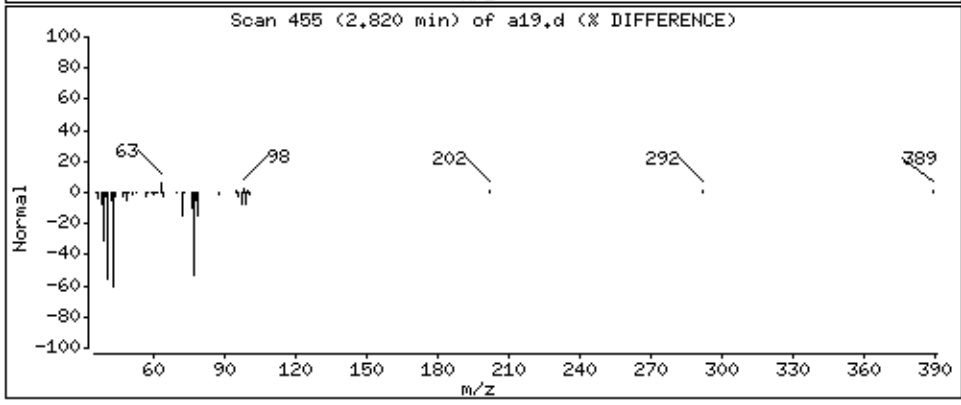
Concentration: 7.63 ppb

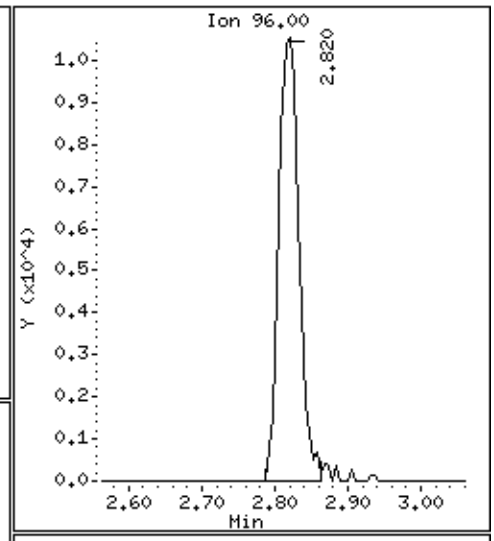
Review Code:

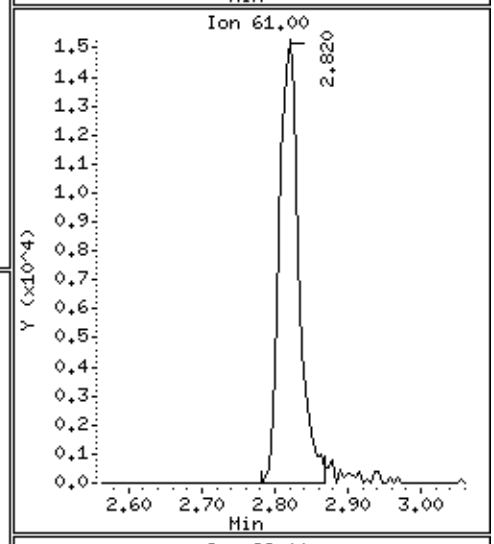


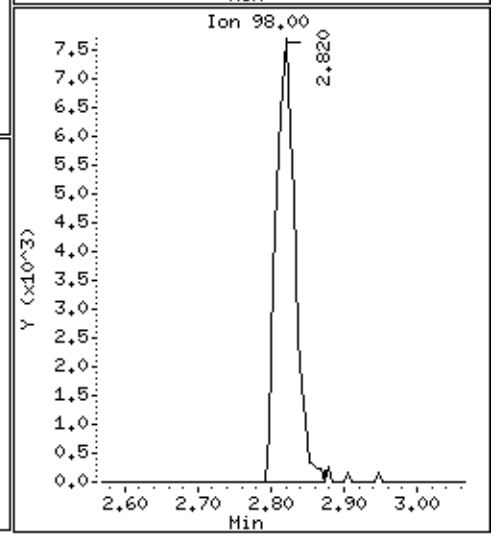












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

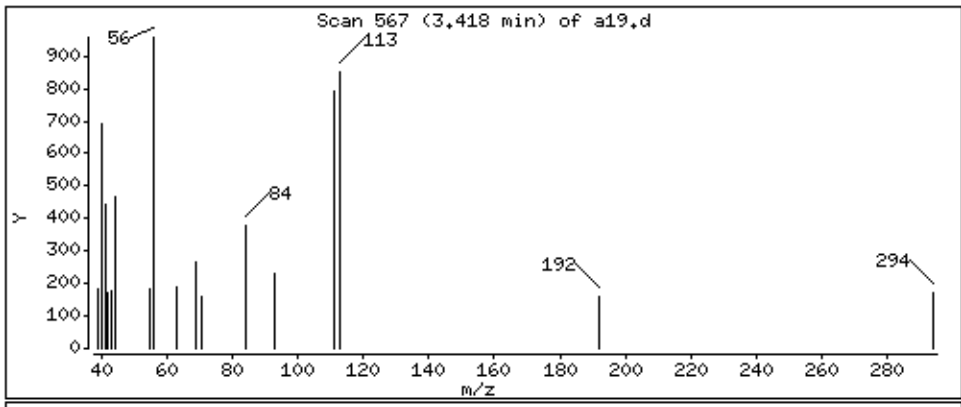
Column phase: DB-624

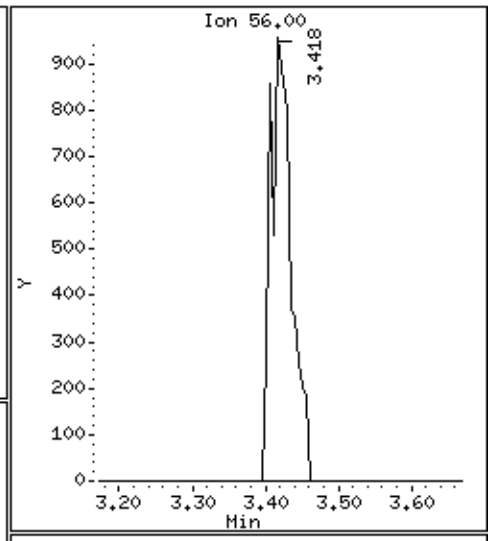
Column diameter: 0.18

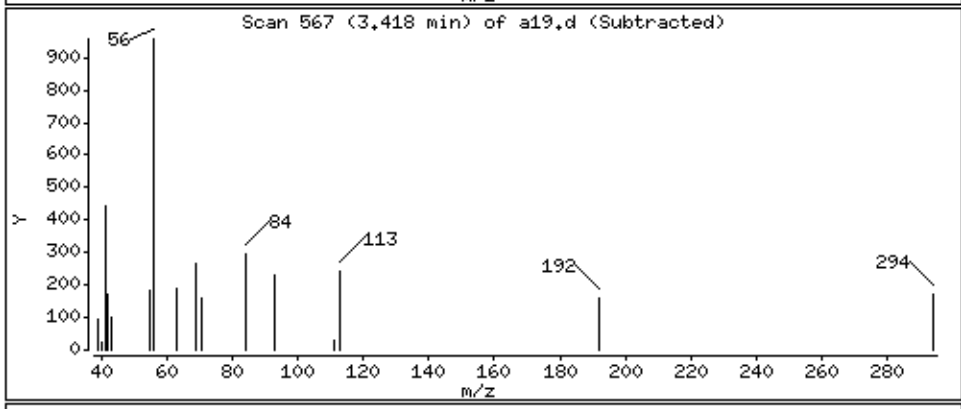
37 Cyclohexane

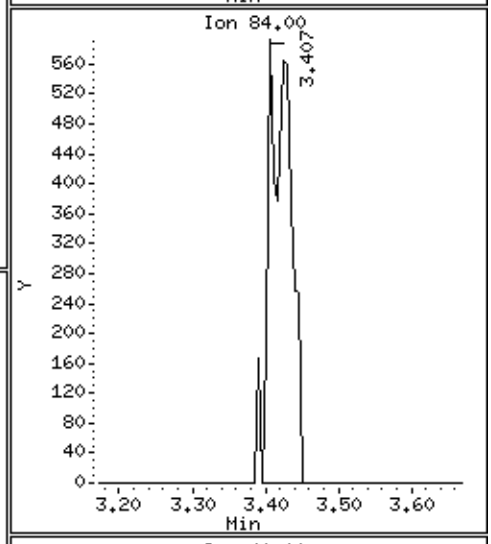
Concentration: 0.378 ppb

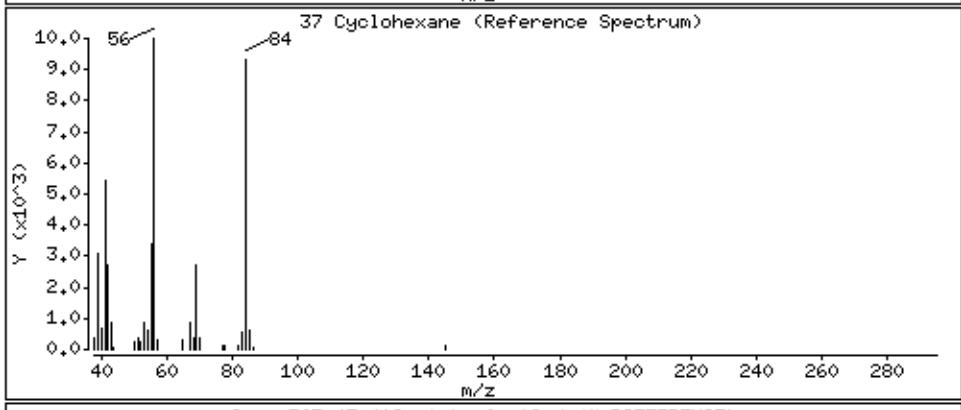
Review Code:

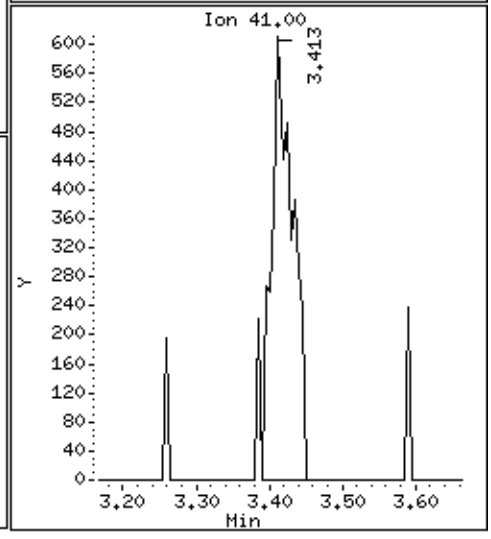


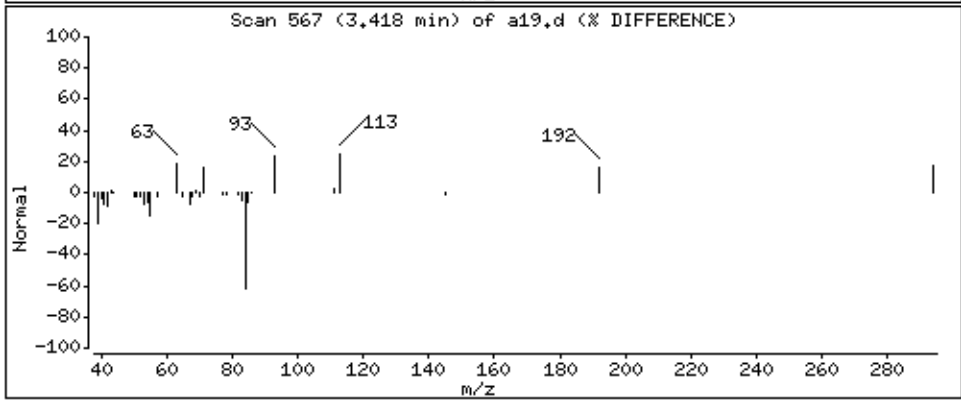












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

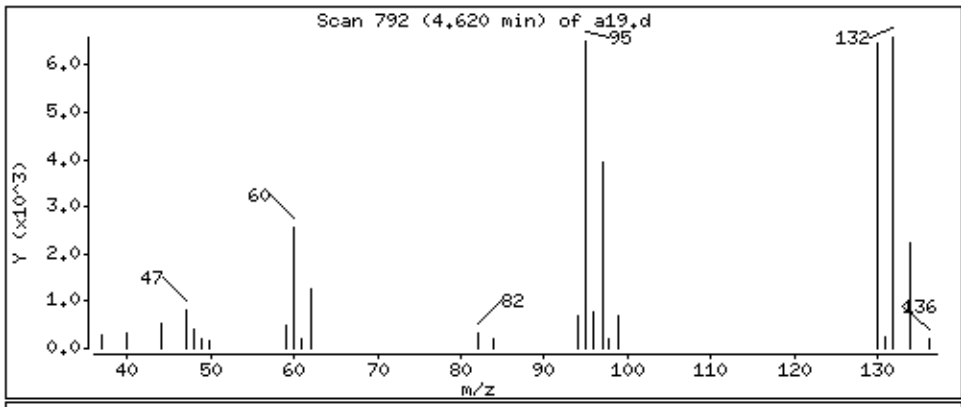
Column phase: DB-624

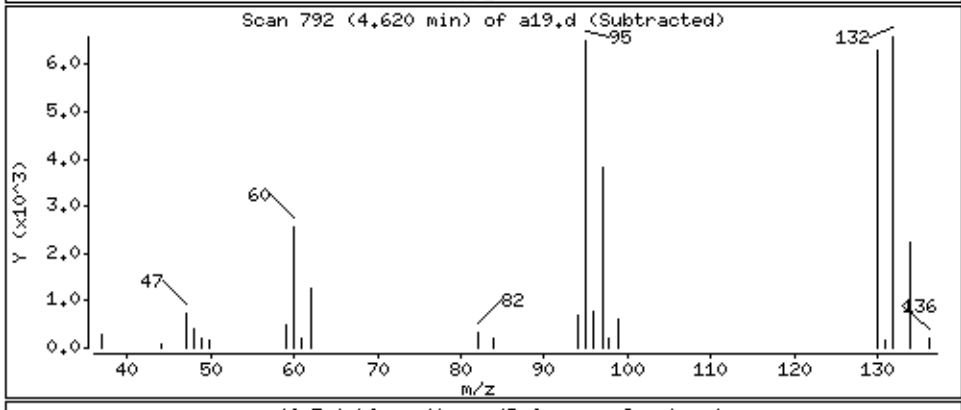
Column diameter: 0.18

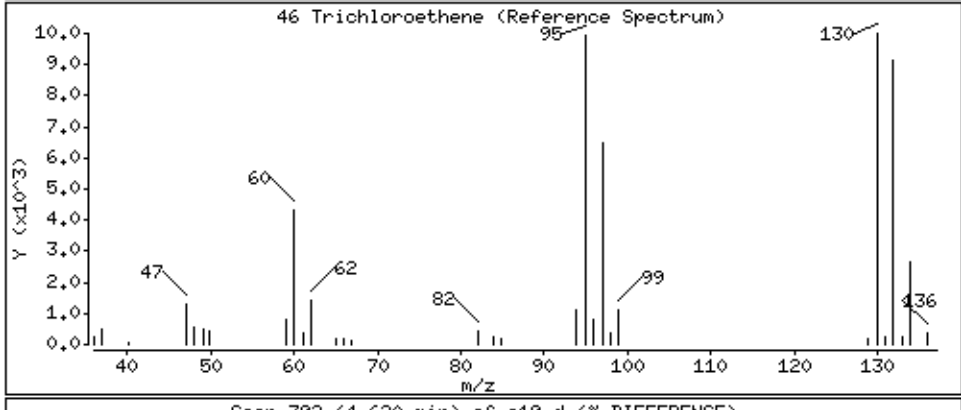
46 Trichloroethene

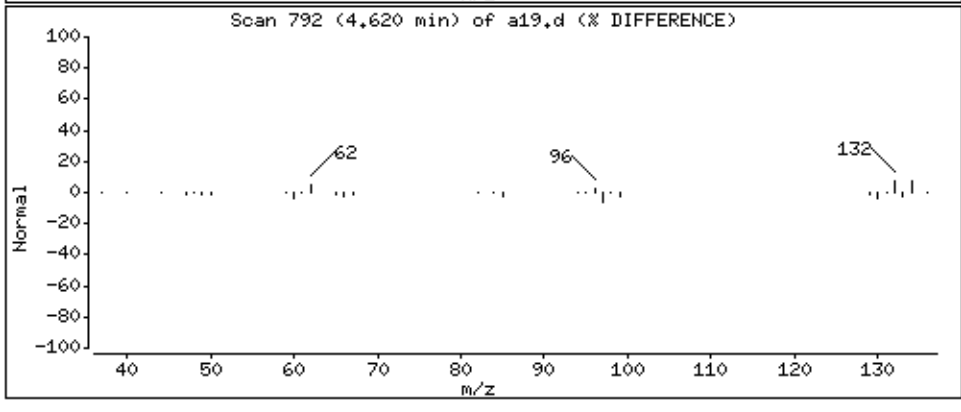
Concentration: 5.30 ppb

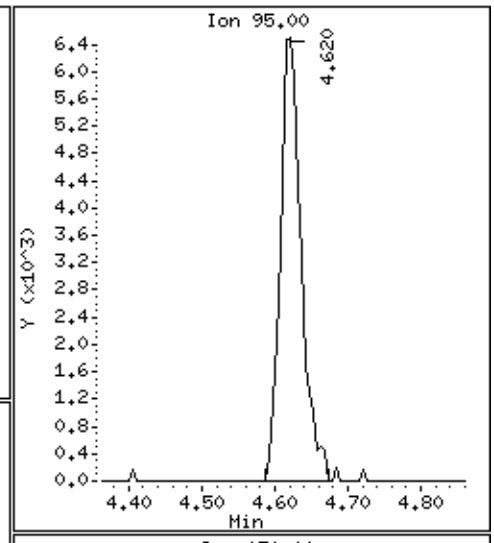
Review Code:

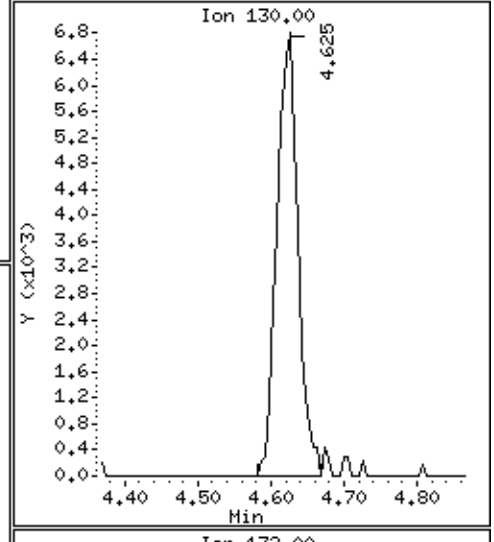


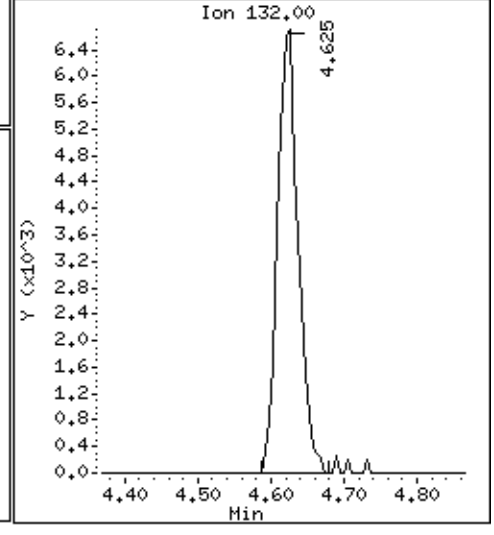












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a19.d

Date : 11-APR-2016 20:17

Client ID: MW-0103-S1U(033016)

Instrument: 50mv3a.i

Sample Info: 50141666002

Purge Volume: 5.0

Operator: jlz

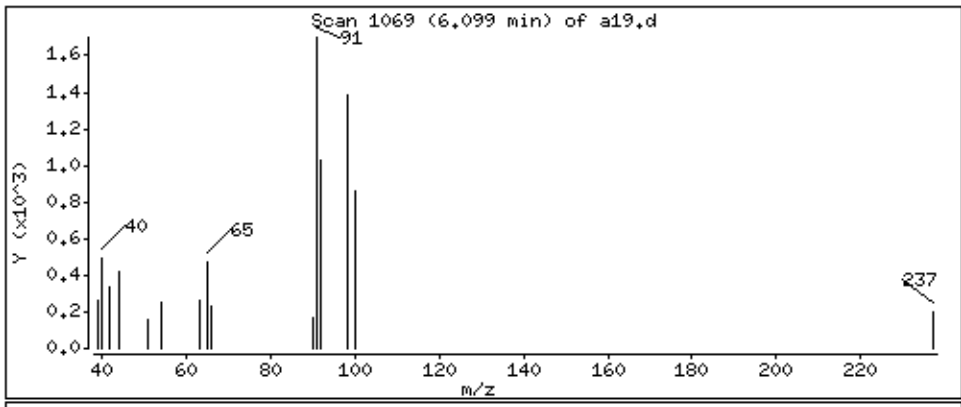
Column phase: DB-624

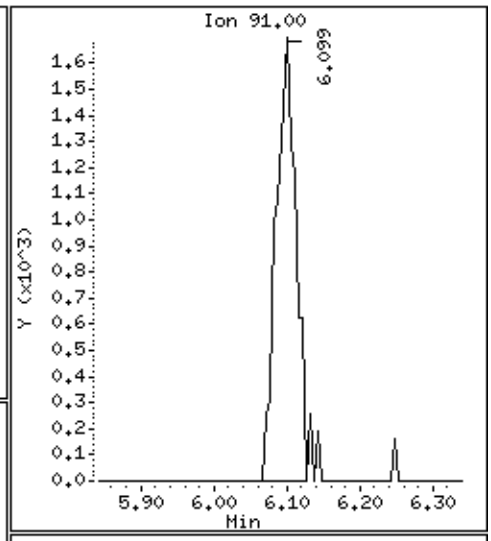
Column diameter: 0.18

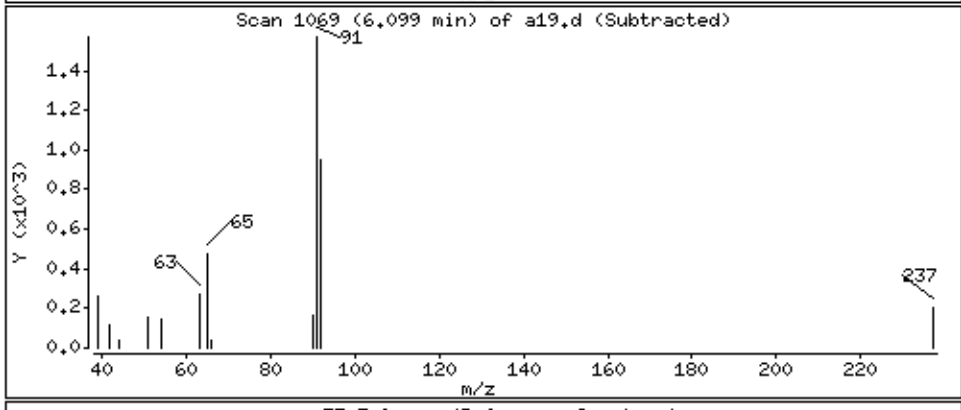
57 Toluene

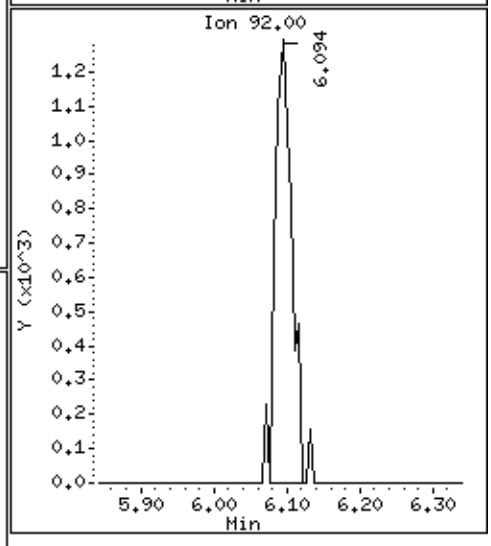
Concentration: 0.326 ppb

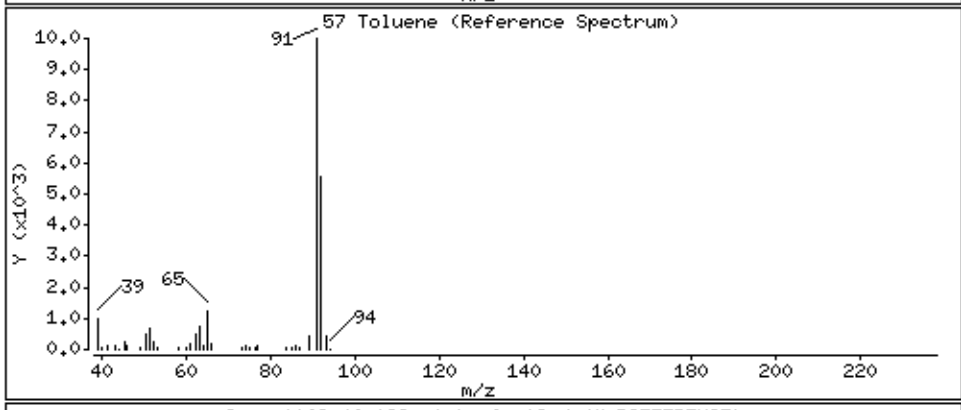
Review Code:

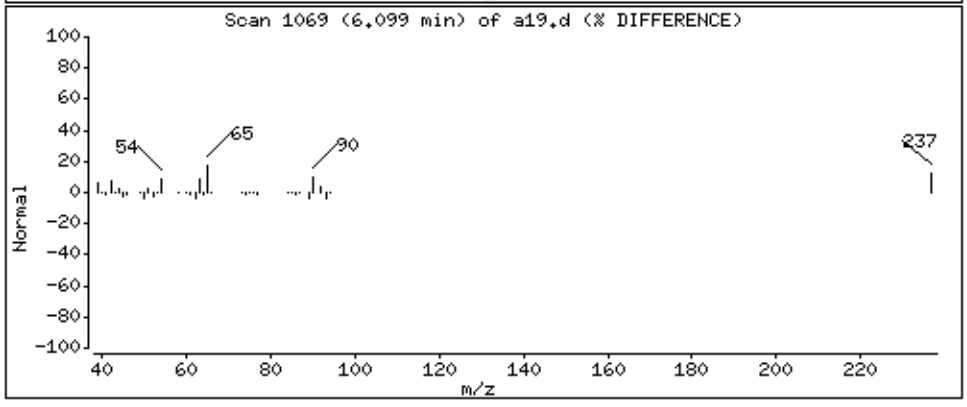












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a19.d
Injection Date: 11-APR-2016 20:17
Instrument: 50mv3a.i
Lab Sample ID: 50141666002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0501-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 20:49 Lab Sample ID: 50141666003

Date Analyzed: 04/11/2016 20:49 Lab File ID: A041116.B\A20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0501-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 20:49 Lab Sample ID: 50141666003

Date Analyzed: 04/11/2016 20:49 Lab File ID: A041116.B\A20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d
Lab Smp Id: 50141666003 Client Smp ID: MW-0501-S1(033016)P
Inj Date : 11-APR-2016 20:49
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666003
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

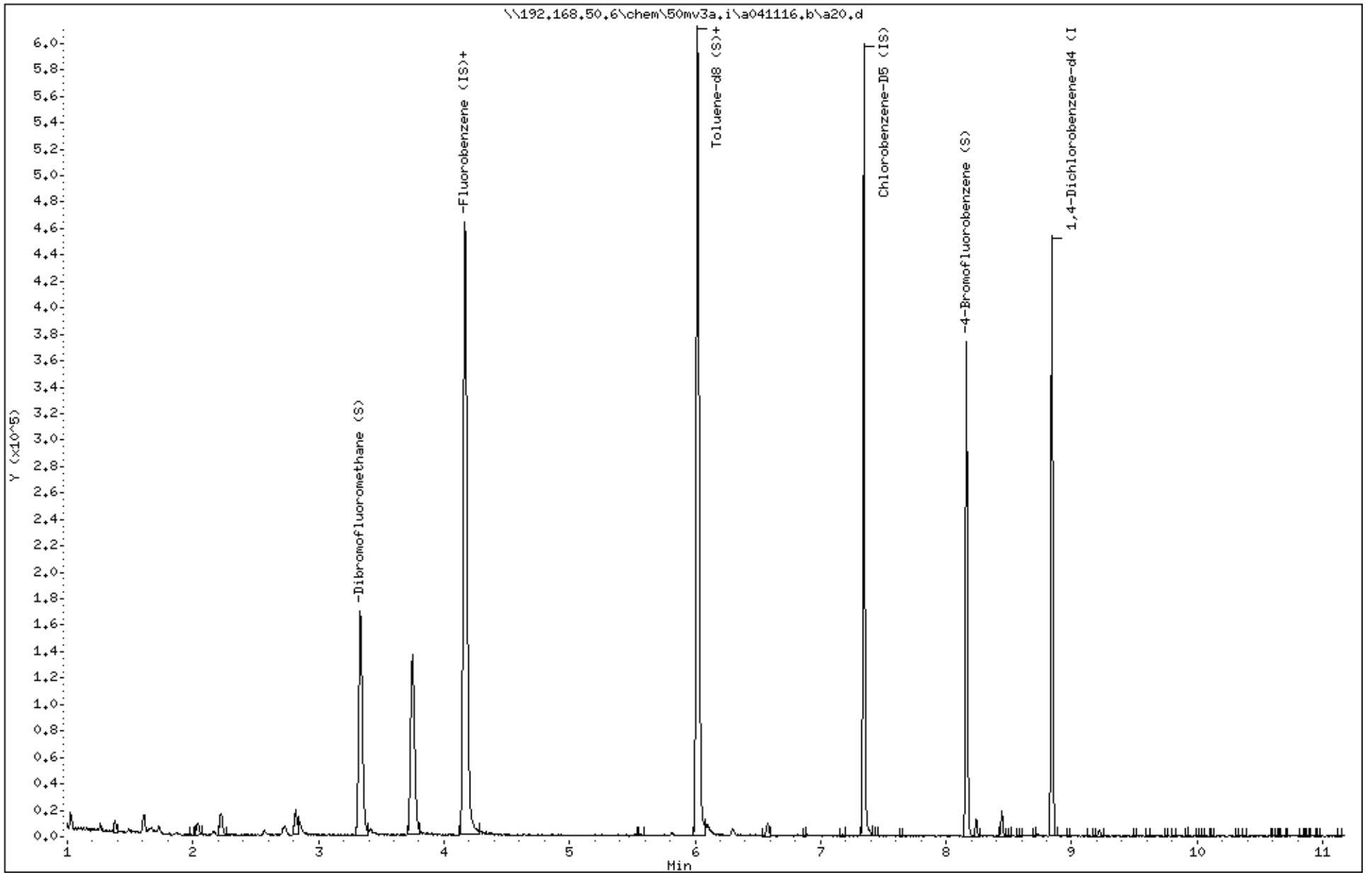
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.606	1.605	(0.385)	13941	23.9820	24.0	
	24 Vinyl Acetate	43	2.226	2.326	(0.534)	4991	1.23330	1.23	
	28 1,2-Dichloroethene (cis)	96	2.819	2.812	(0.676)	6912	2.74421	2.74	
$	35 Dibromofluoromethane (S)	113	3.332	3.330	(0.799)	108350	52.3096	52.3	
	43 2,2,4-Trimethylpentane	57	4.170	3.944	(1.000)	12438	1.17712	1.18	
*	45 Fluorobenzene (IS)	96	4.170	4.163	(1.000)	459709	50.0000		
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	357232	49.0249	49.0	
	57 Toluene	91	6.098	6.091	(0.831)	3401	0.36408	0.364	
*	66 Chlorobenzene-D5 (IS)	117	7.343	7.341	(1.000)	212103	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	73585	41.9885	42.0	
	77 1,1,2,2-Tetrachloroethane	83	8.443	8.255	(0.955)	157	0.14595	0.146(Q)	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	67444	50.0000		

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d
Date : 11-APR-2016 20:49
Client ID: MW-0501-S1(033016)P
Sample Info: 50141666003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

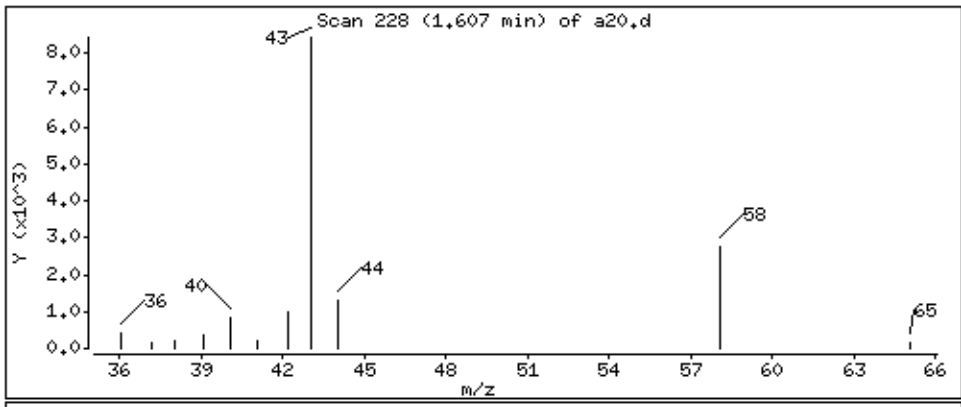
Column phase: DB-624

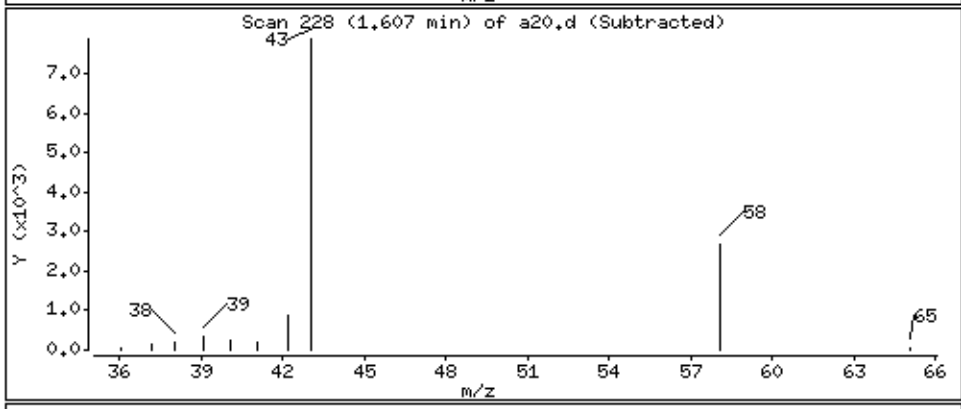
Column diameter: 0.18

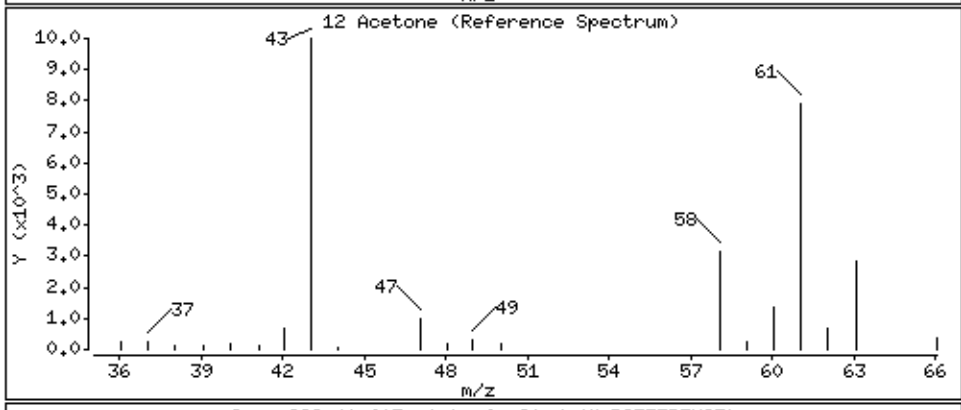
12 Acetone

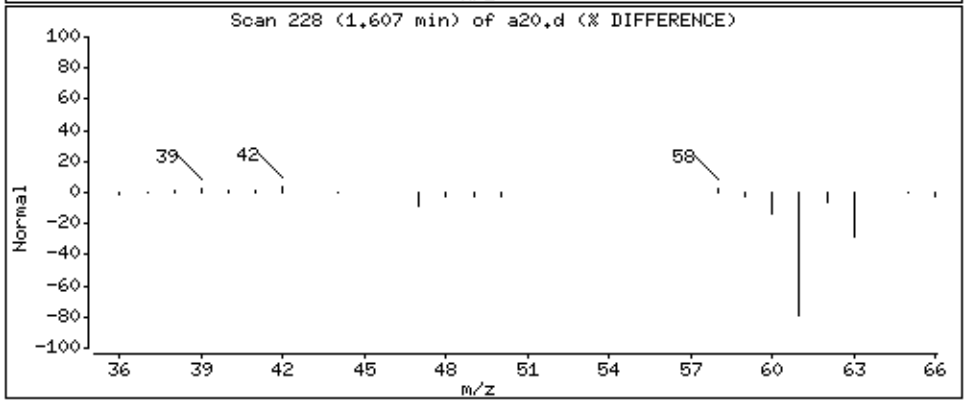
Concentration: 24.0 ppb

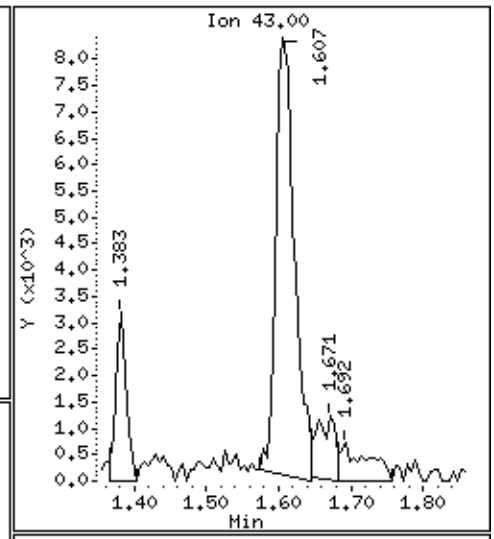
Review Code:

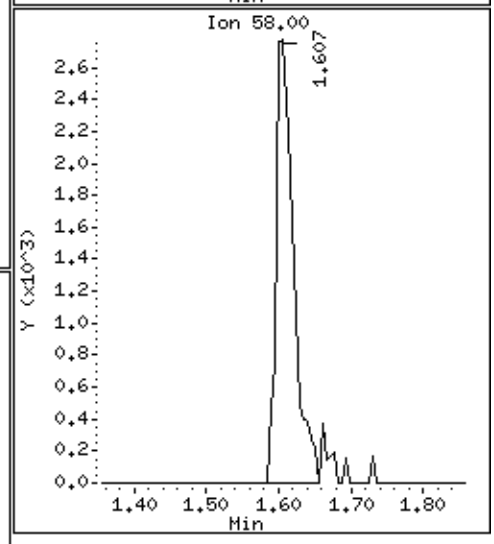












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

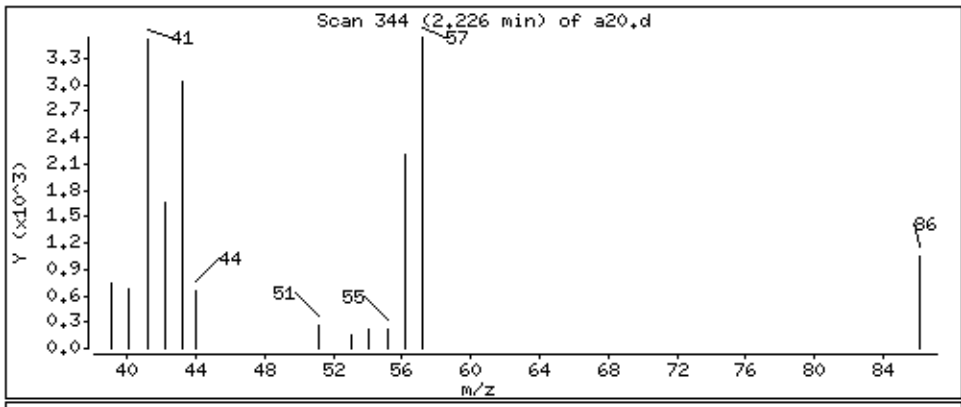
Column phase: DB-624

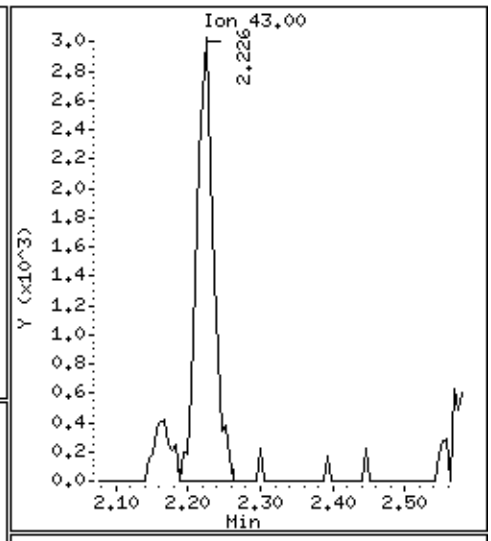
Column diameter: 0.18

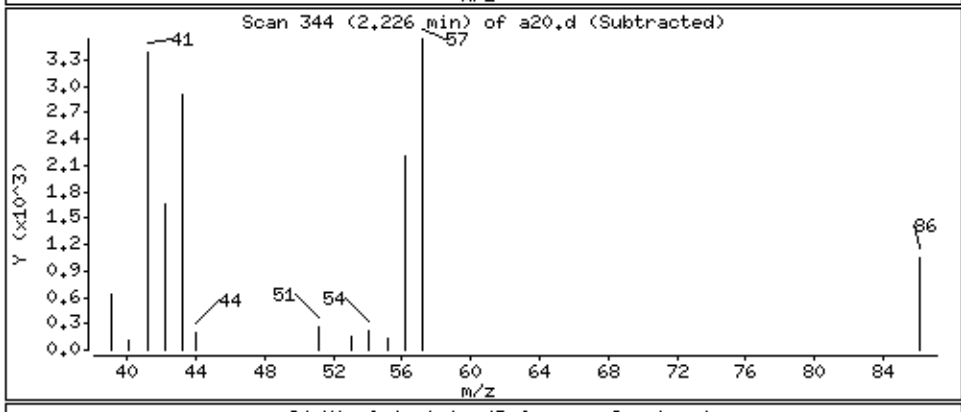
24 Vinyl Acetate

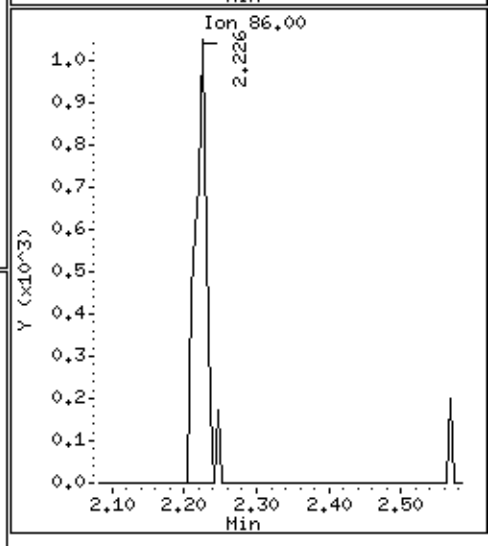
Concentration: 1.23 ppb

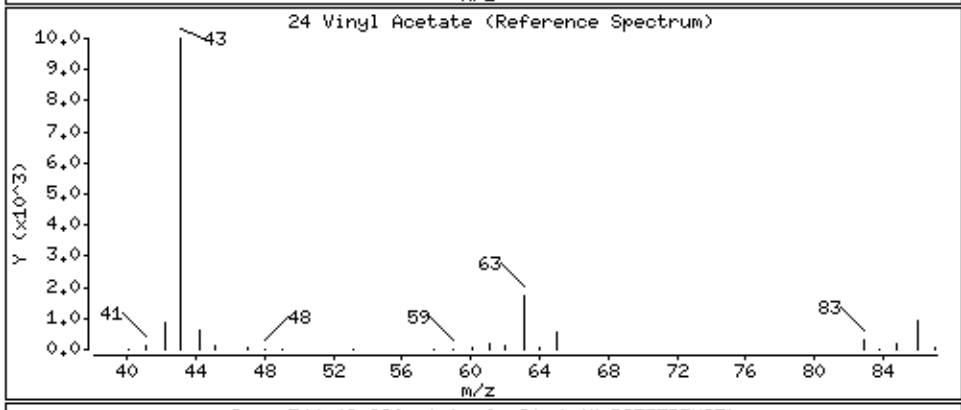
Review Code:

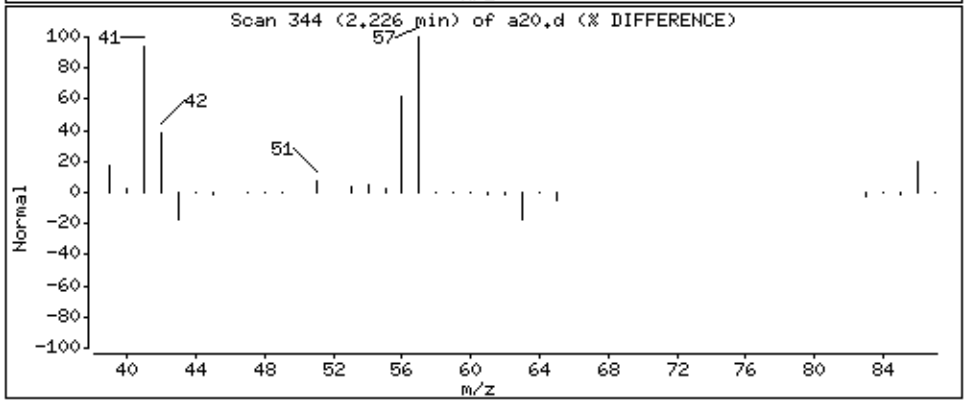












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

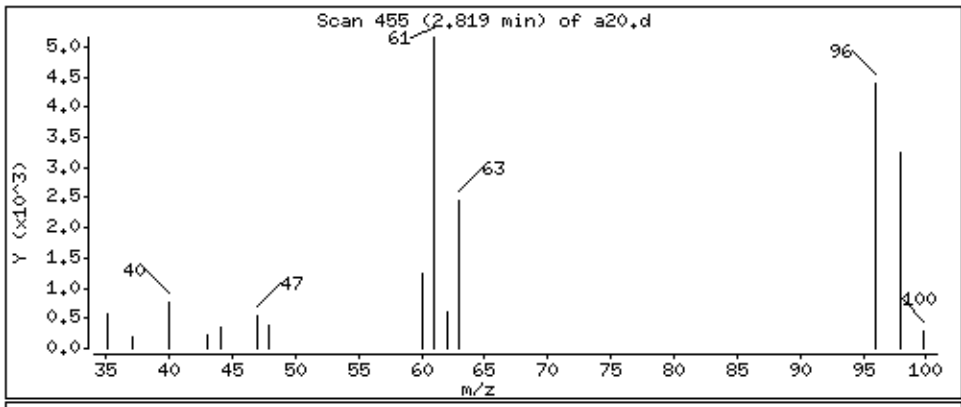
Column phase: DB-624

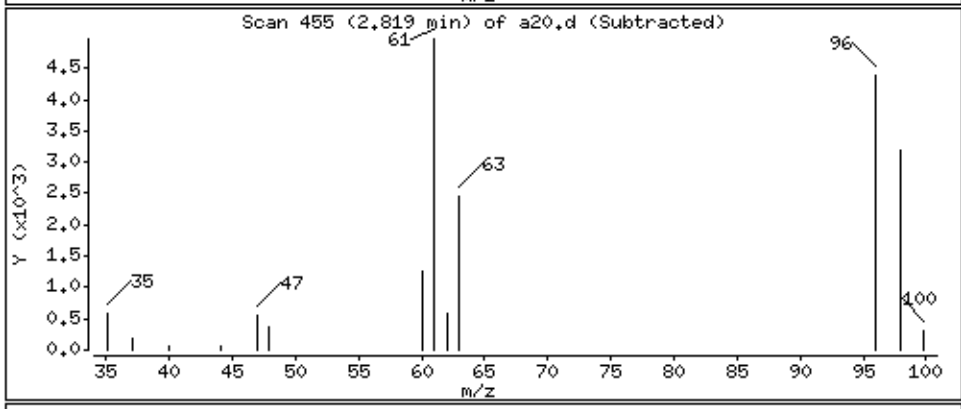
Column diameter: 0.18

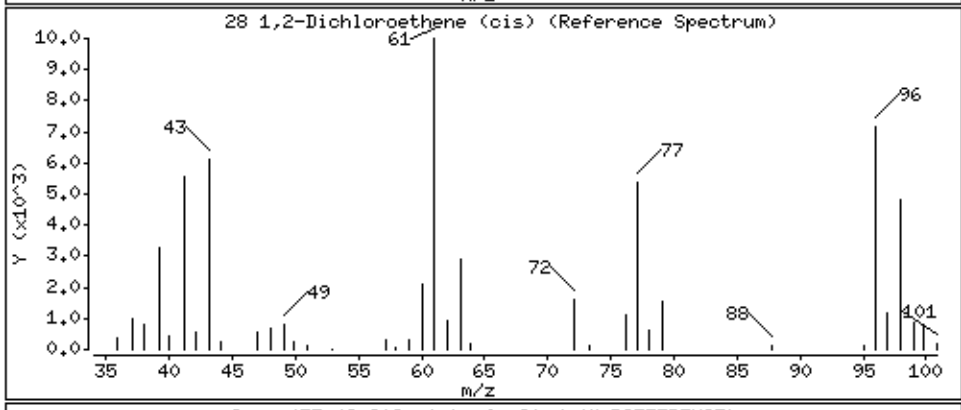
28 1,2-Dichloroethene (cis)

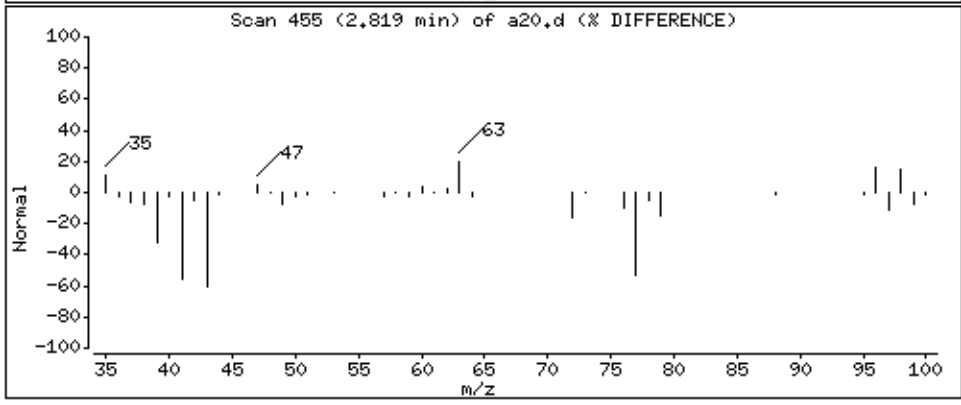
Concentration: 2.74 ppb

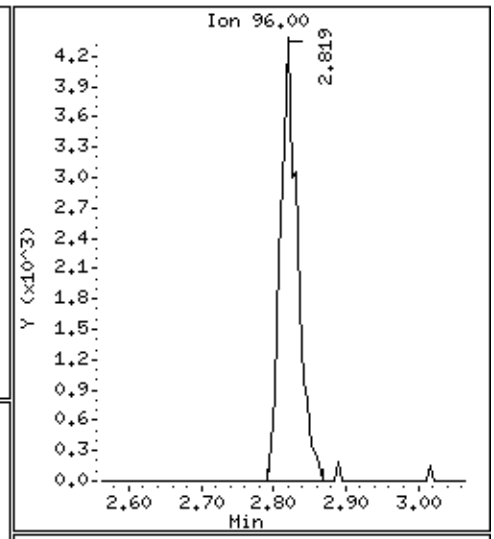
Review Code:

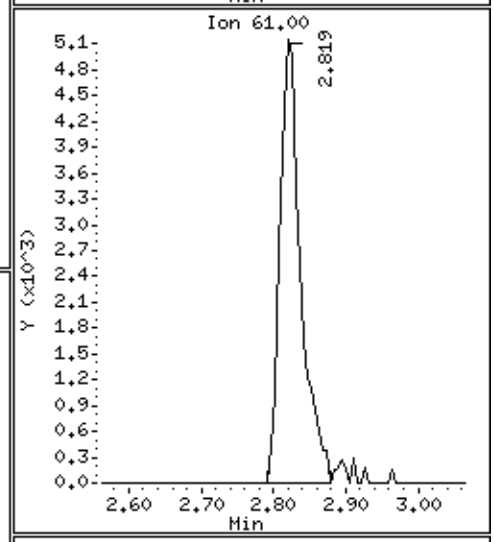


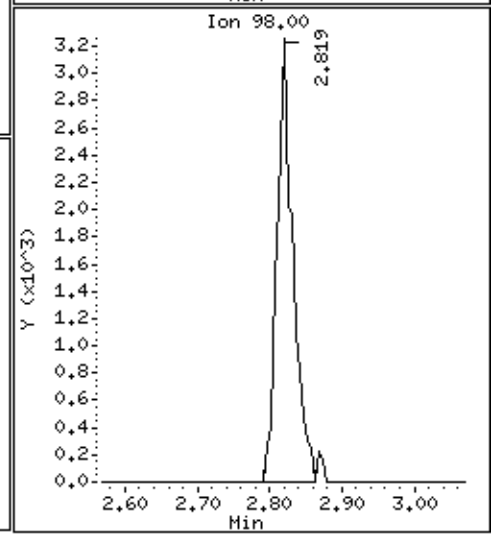












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

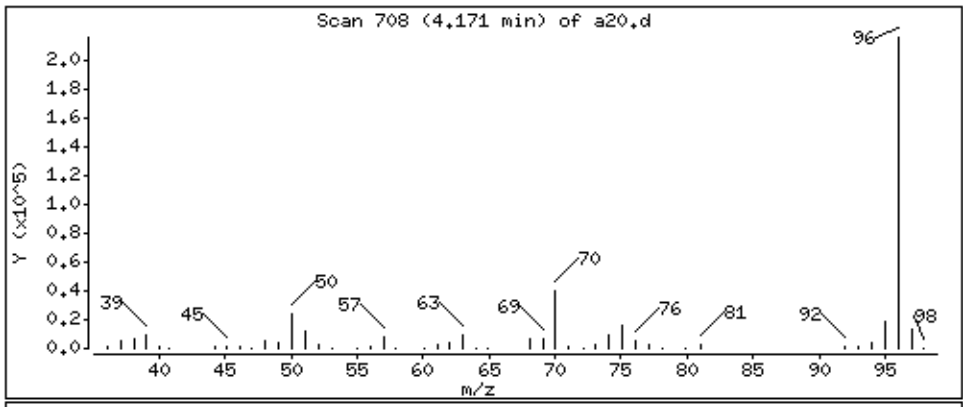
Column phase: DB-624

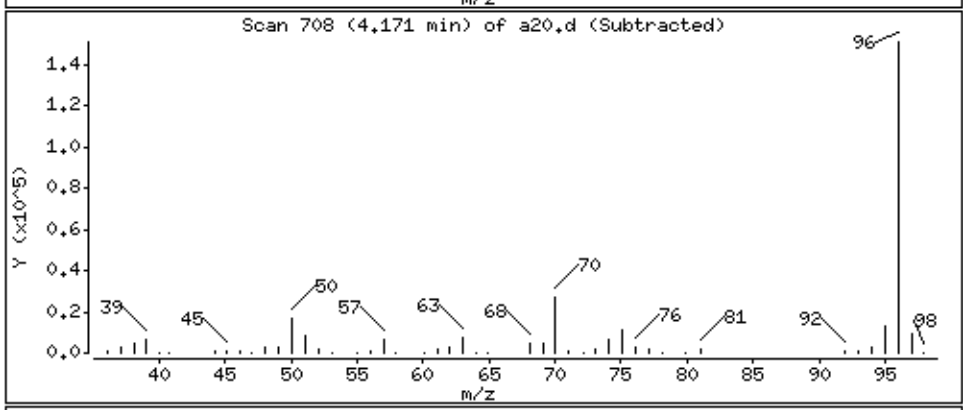
Column diameter: 0.18

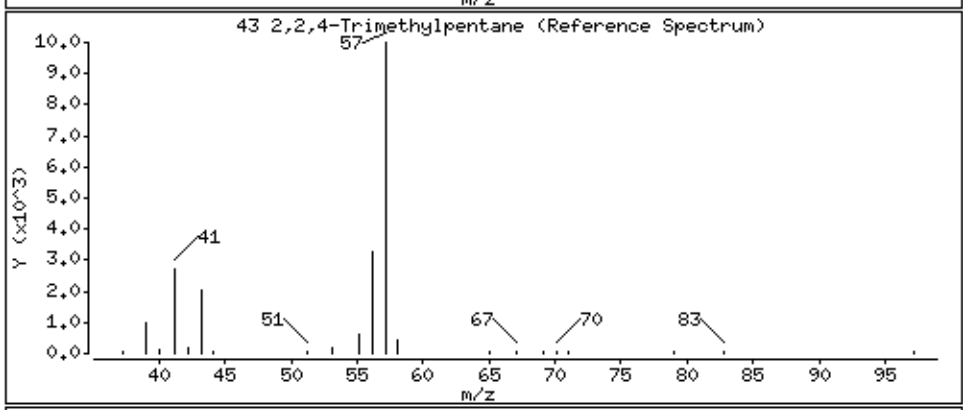
43 2,2,4-Trimethylpentane

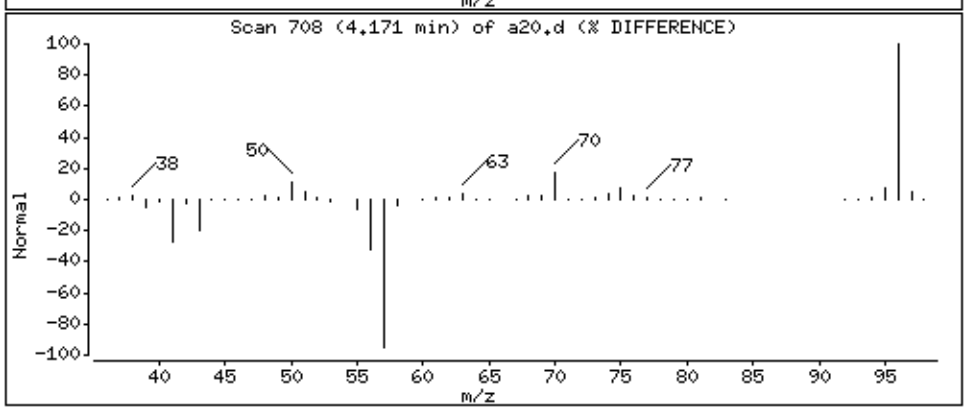
Concentration: 1.18 ppb

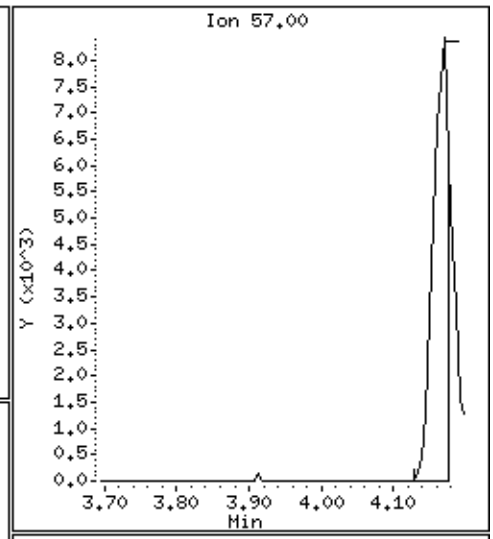
Review Code:

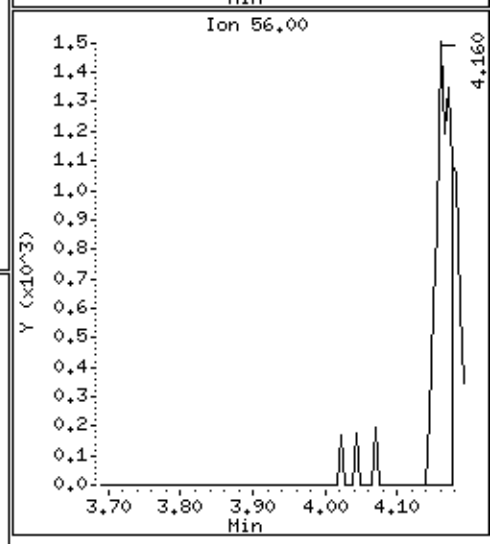












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

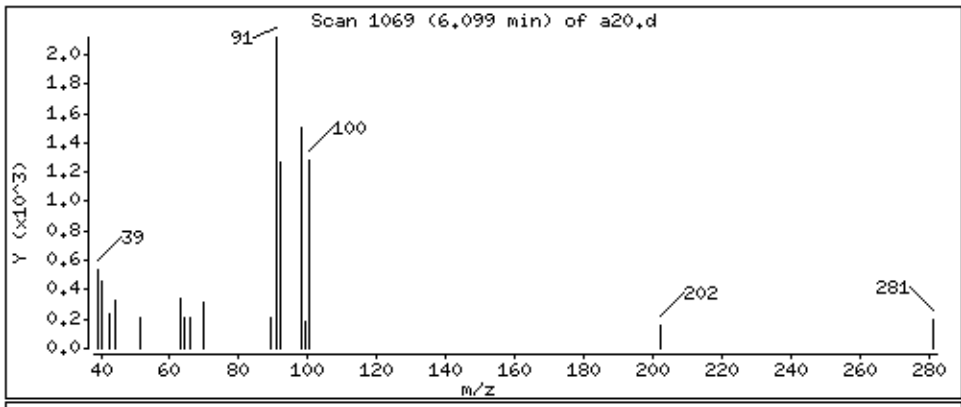
Column phase: DB-624

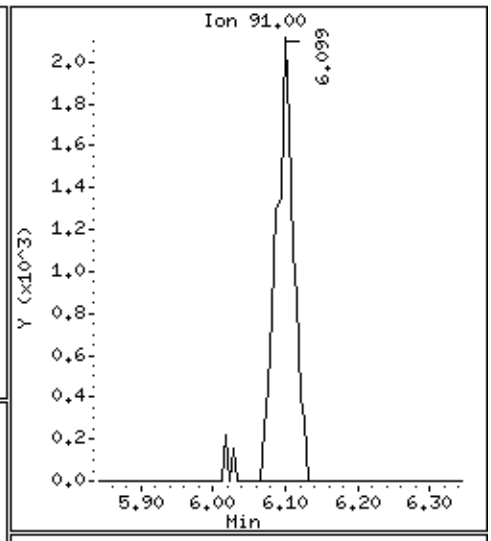
Column diameter: 0.18

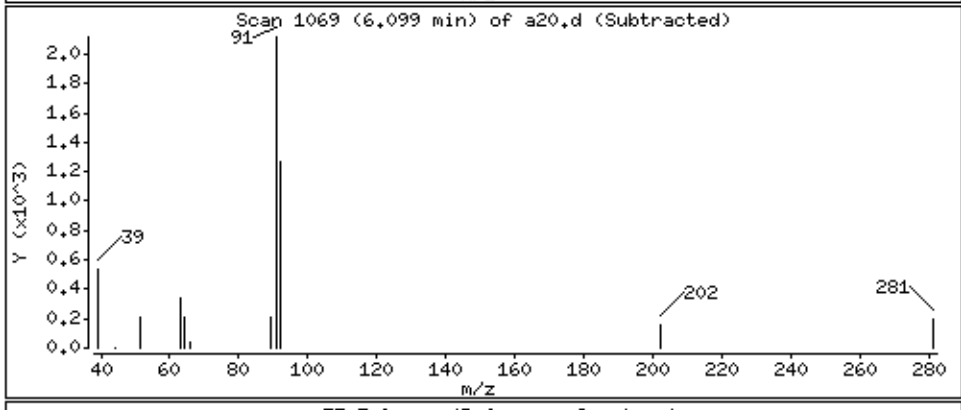
57 Toluene

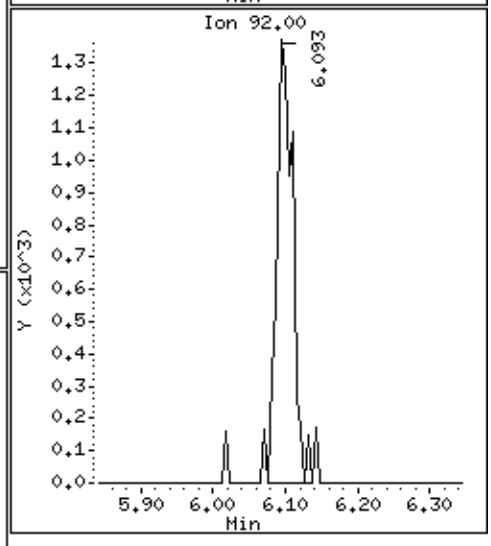
Concentration: 0.364 ppb

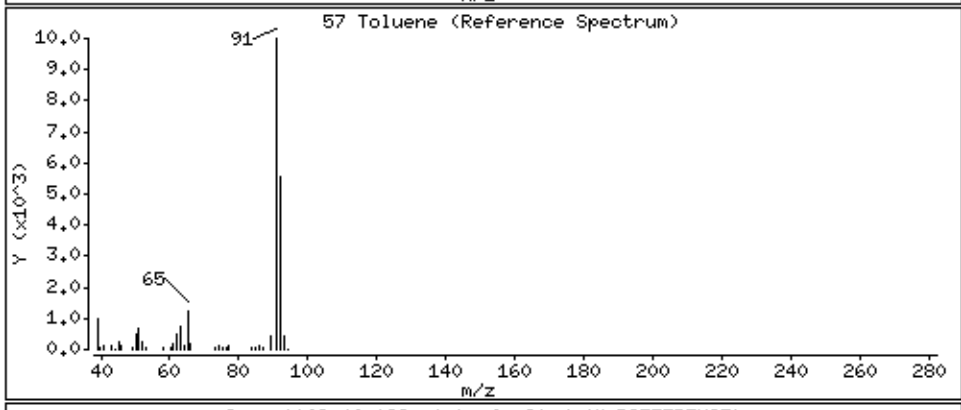
Review Code:

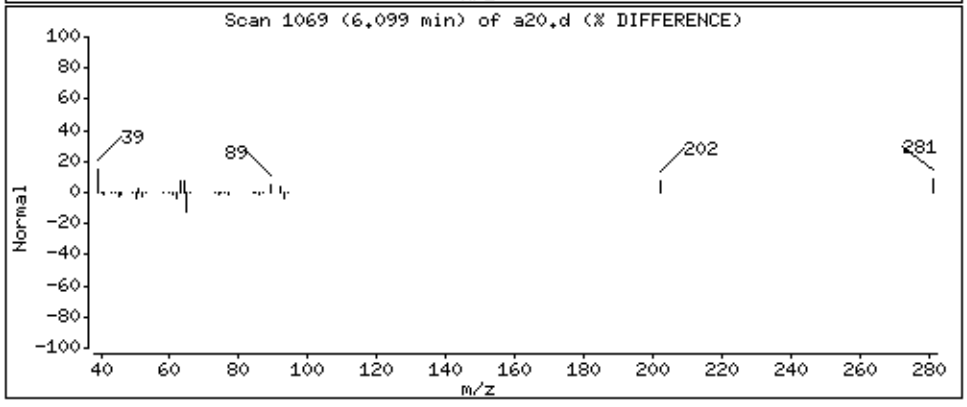












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a20.d

Date : 11-APR-2016 20:49

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666003

Purge Volume: 5.0

Operator: jlz

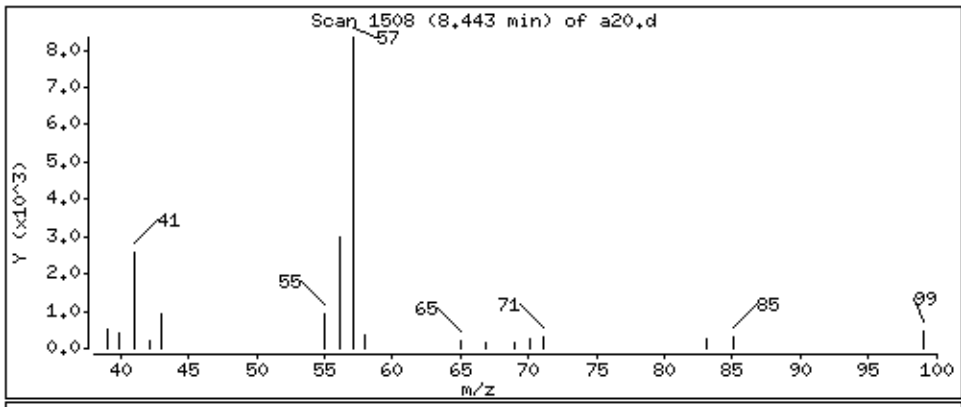
Column phase: DB-624

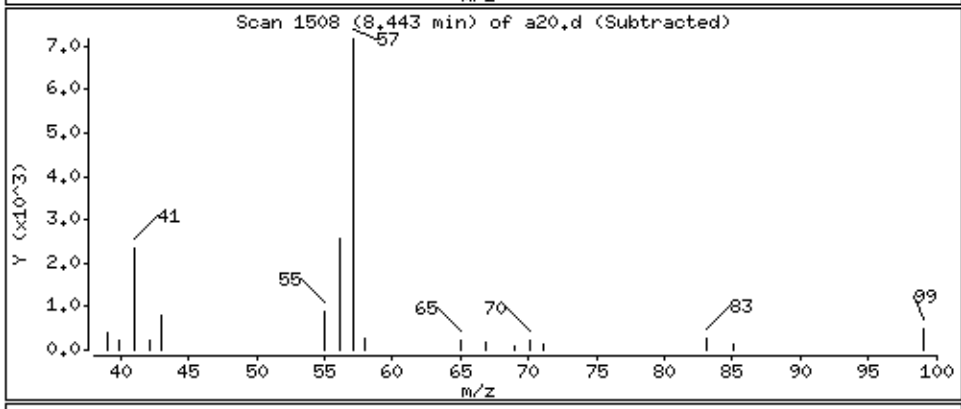
Column diameter: 0.18

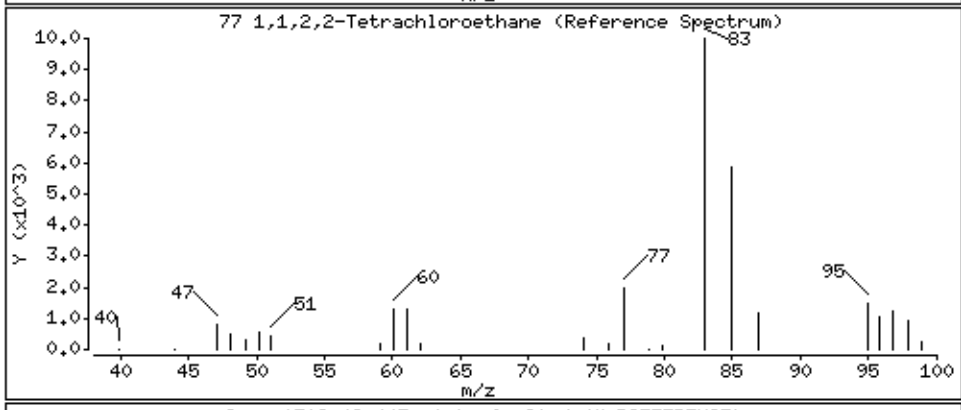
77 1,1,2,2-Tetrachloroethane

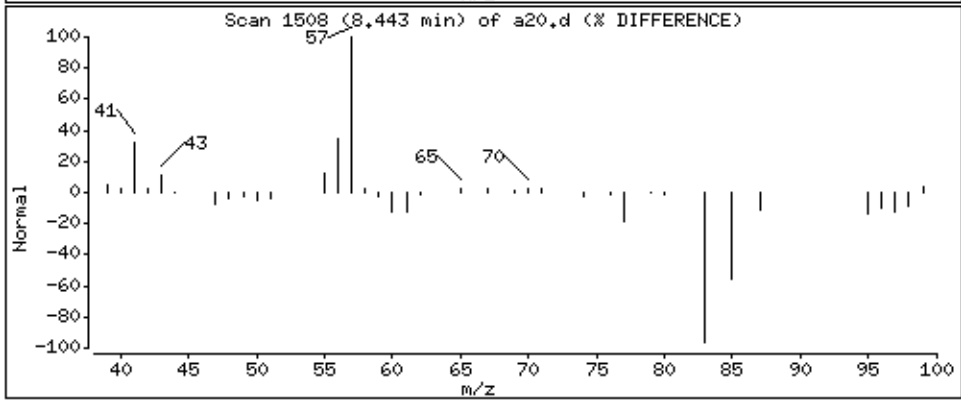
Concentration: 0.146 ppb

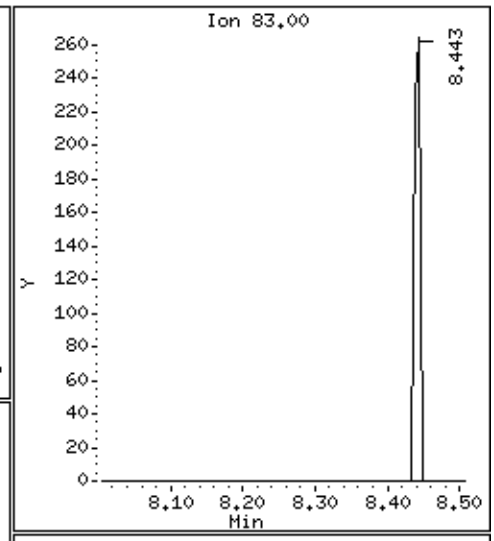
Review Code:

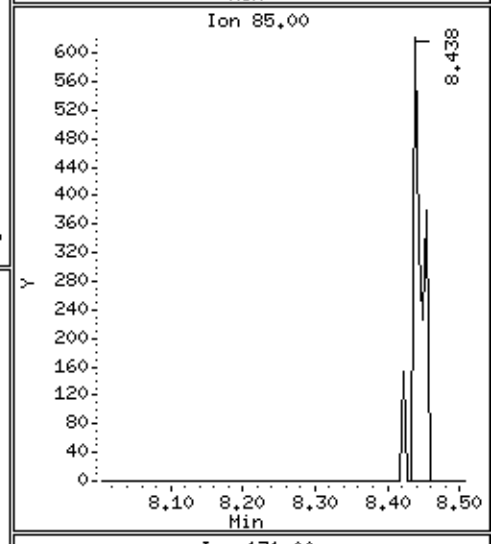


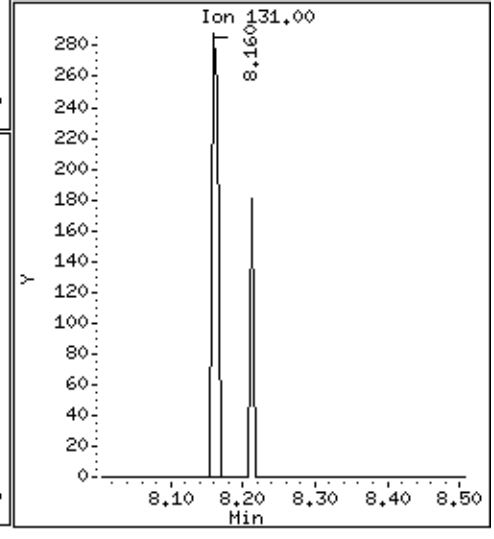












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a20.d
Injection Date: 11-APR-2016 20:49
Instrument: 50mv3a.i
Lab Sample ID: 50141666003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0502-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:34 Lab Sample ID: 50141666004

Date Analyzed: 04/12/2016 00:34 Lab File ID: A041116.B\C04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0502-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:34 Lab Sample ID: 50141666004

Date Analyzed: 04/12/2016 00:34 Lab File ID: A041116.B\C04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d
Lab Smp Id: 50141666004 Client Smp ID: MW-0502-S1(033016)P
Inj Date : 12-APR-2016 00:34
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666004
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.605	1.605	(0.386)	10324	17.6422	17.6	
	28 1,2-Dichloroethene (cis)	96	2.817	2.812	(0.677)	1859	0.73317	0.733(Q)	
$	35 Dibromofluoromethane (S)	113	3.335	3.330	(0.801)	104184	49.9649	50.0	
	37 Cyclohexane	56	3.410	3.421	(0.819)	1523	0.31888	0.319	
*	45 Fluorobenzene (IS)	96	4.163	4.163	(1.000)	462776	50.0000		
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	368701	49.5035	49.5	
	57 Toluene	91	6.091	6.091	(0.830)	1742	0.18244	0.182(Q)	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	216796	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	79717	44.5028	44.5	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	73137	50.0000		

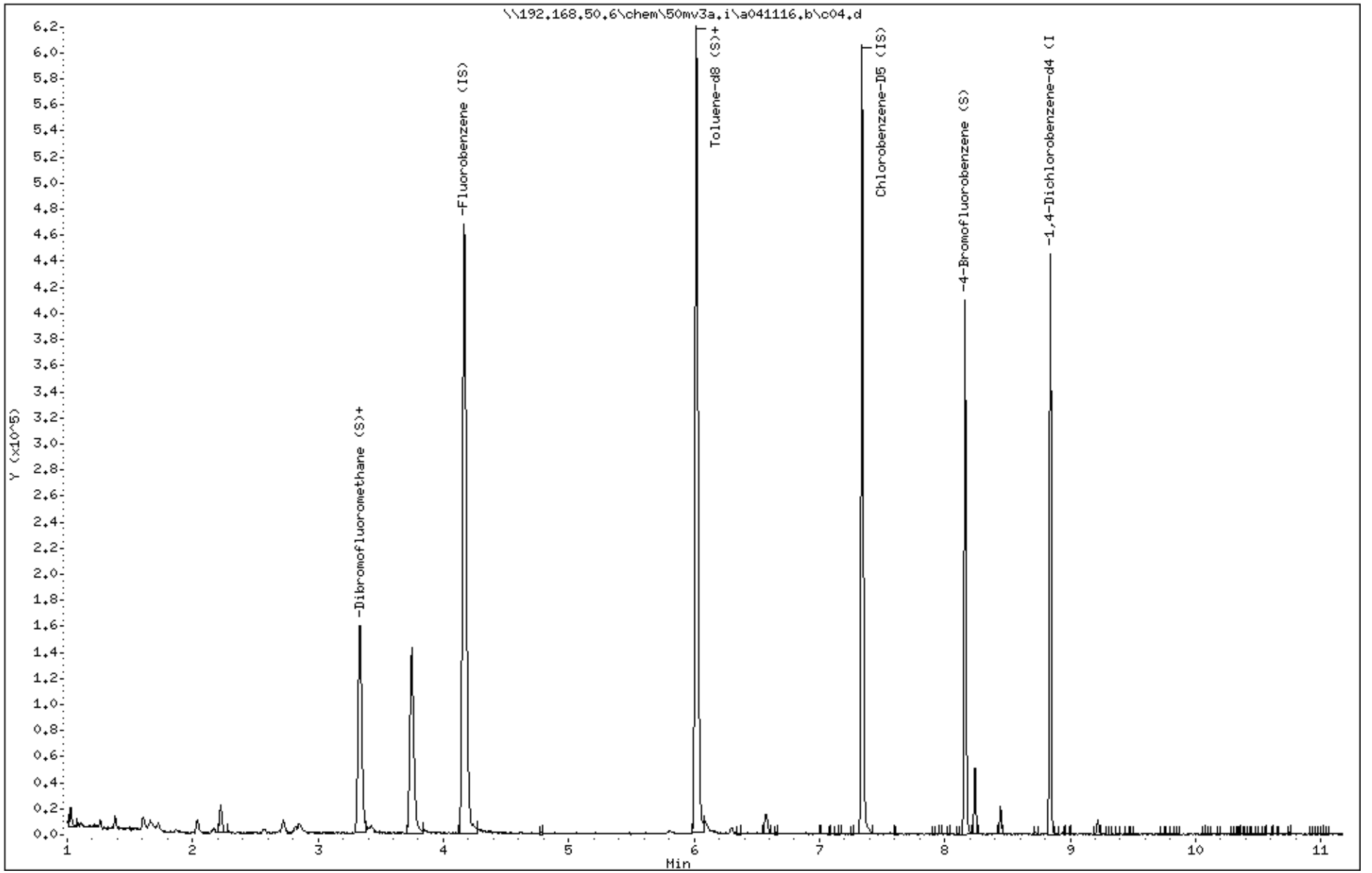
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d
Date : 12-APR-2016 00:34
Client ID: MW-0502-S1(033016)P
Instrument: 50mv3a.i
Sample Info: 50141666004
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d

Date : 12-APR-2016 00:34

Client ID: MW-0502-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666004

Purge Volume: 5.0

Operator: jlz

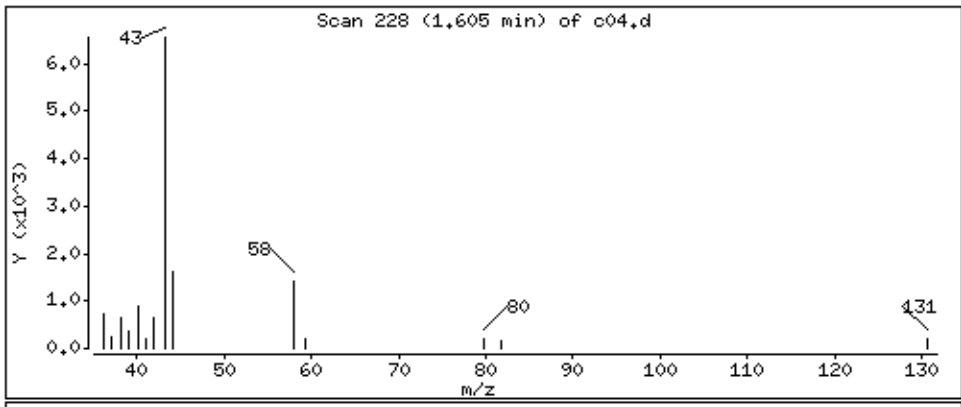
Column phase: DB-624

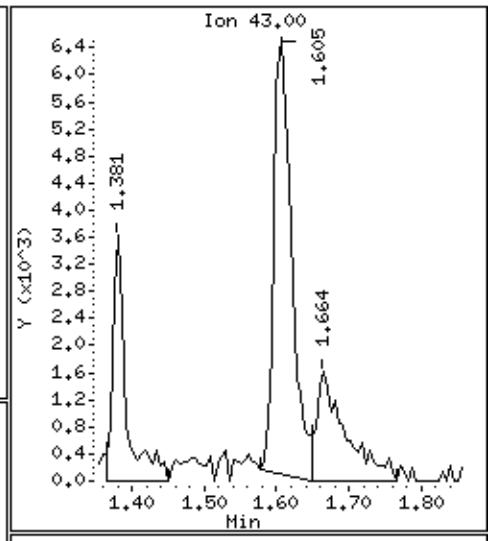
Column diameter: 0.18

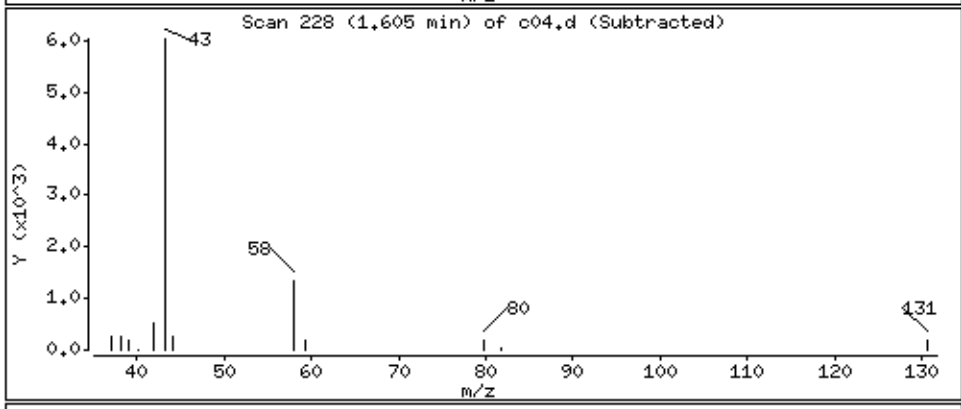
12 Acetone

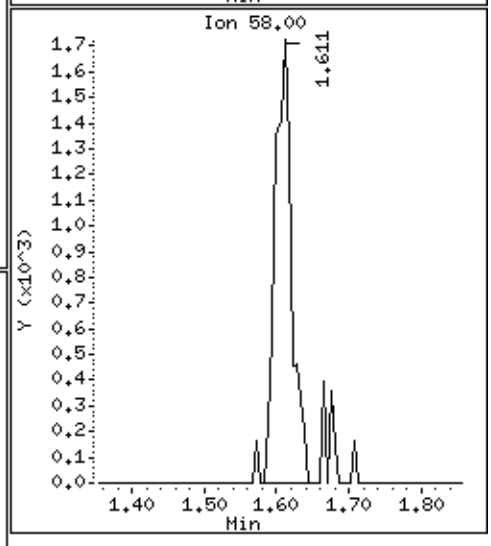
Concentration: 17.6 ppb

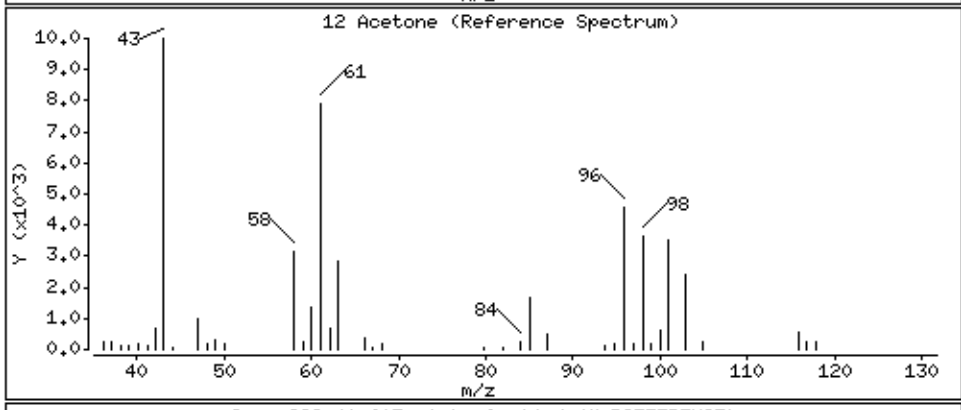
Review Code:

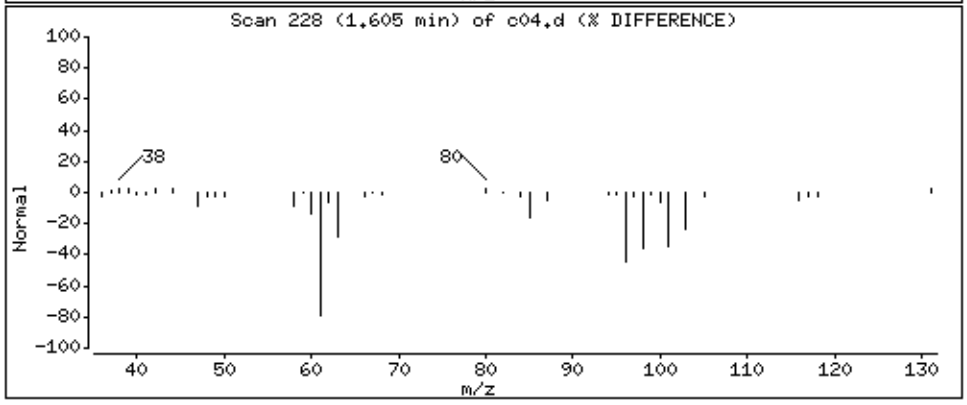












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d

Date : 12-APR-2016 00:34

Client ID: MW-0502-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666004

Purge Volume: 5.0

Operator: jlz

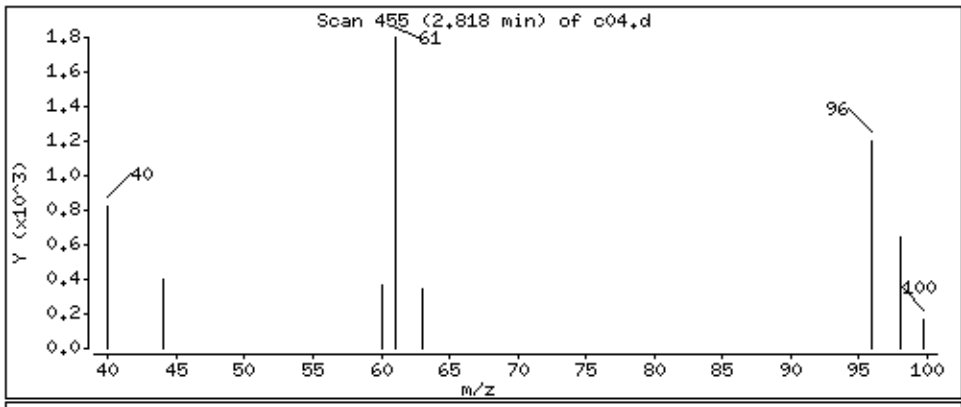
Column phase: DB-624

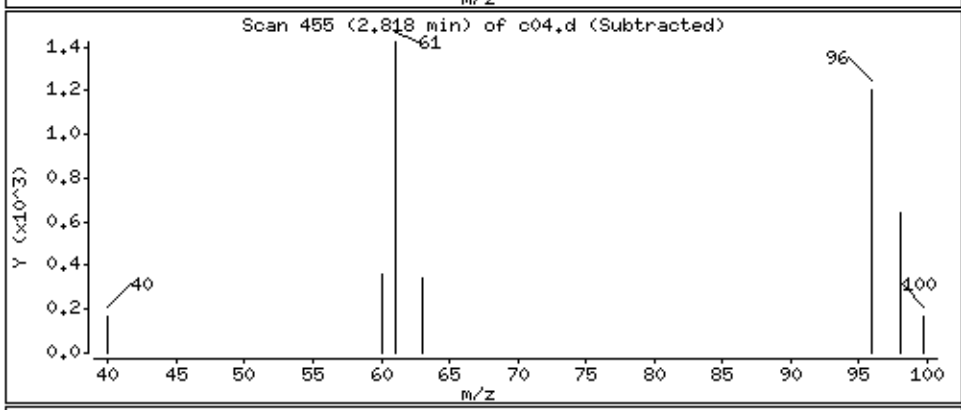
Column diameter: 0.18

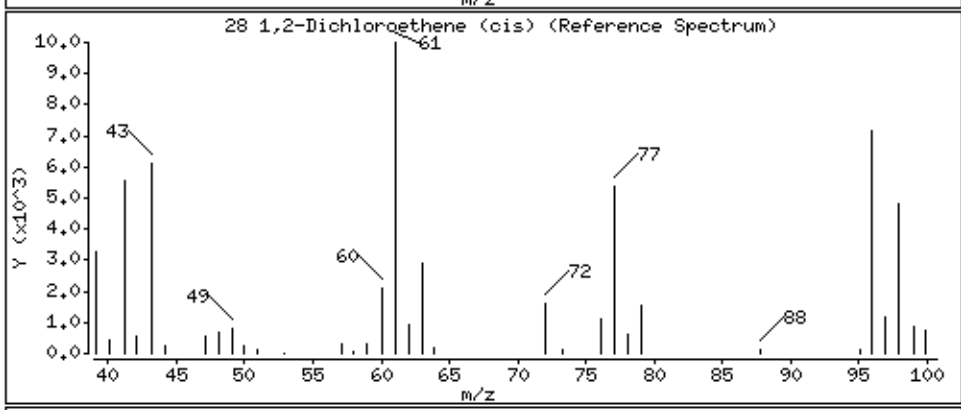
28 1,2-Dichloroethene (cis)

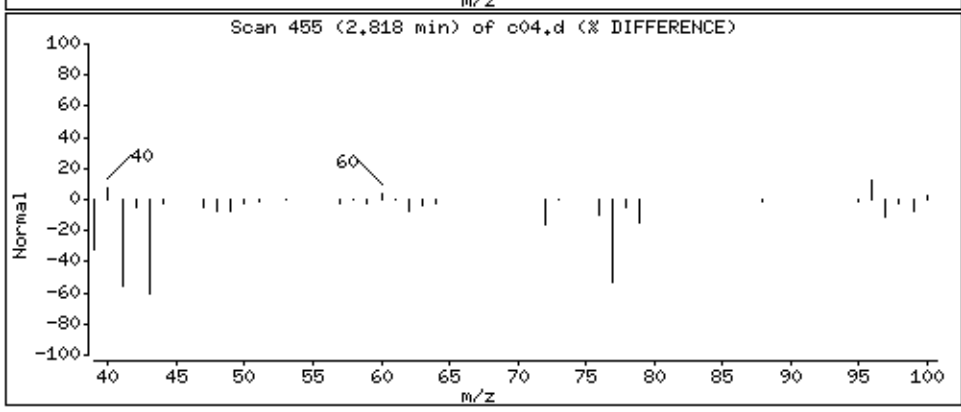
Concentration: 0.733 ppb

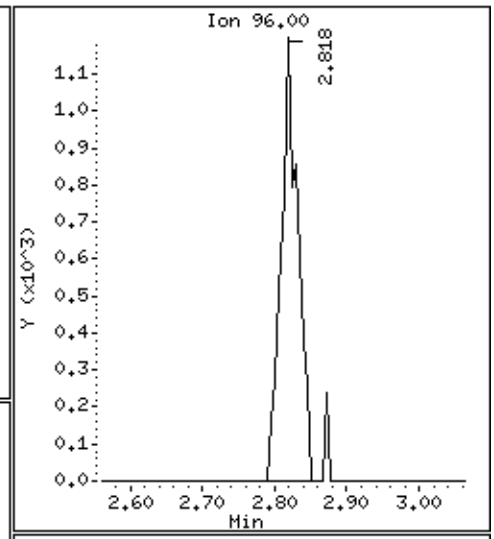
Review Code:

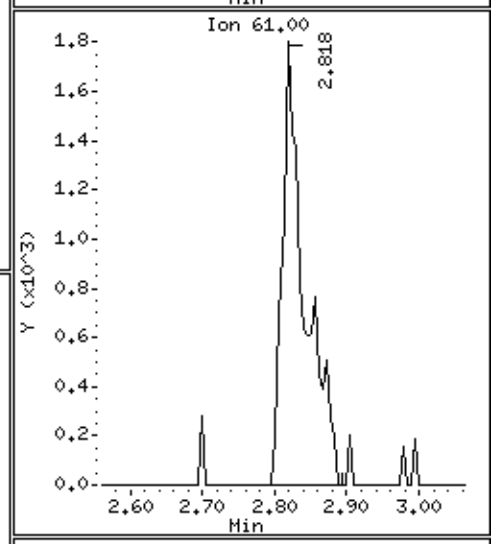


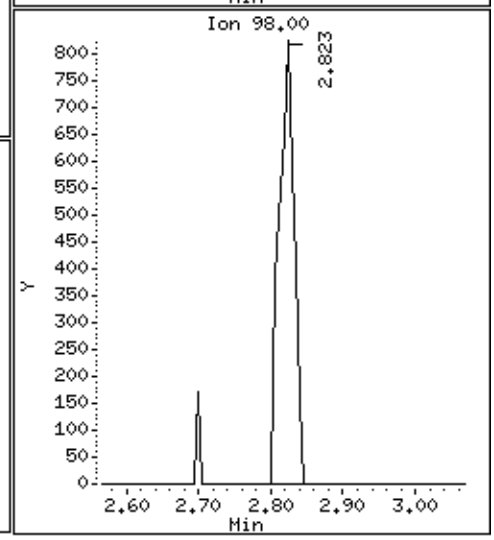












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d

Date : 12-APR-2016 00:34

Client ID: MW-0502-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666004

Purge Volume: 5.0

Operator: jlz

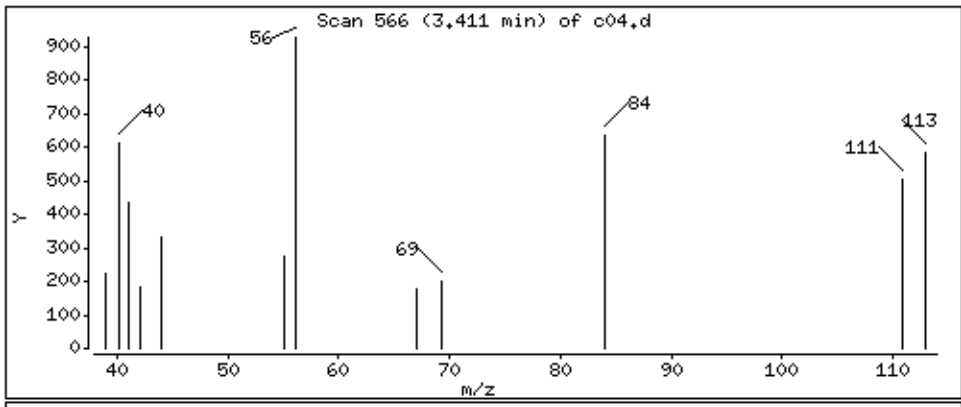
Column phase: DB-624

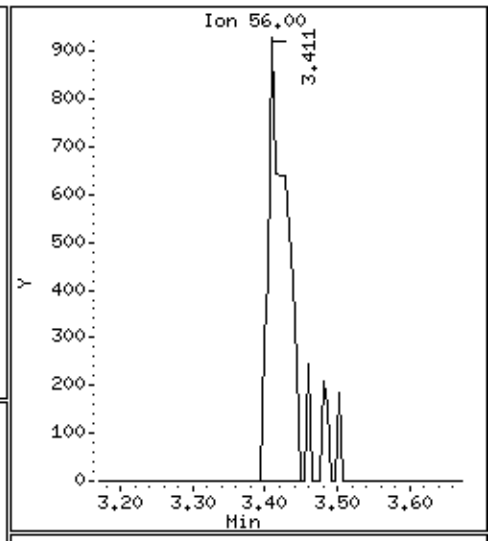
Column diameter: 0.18

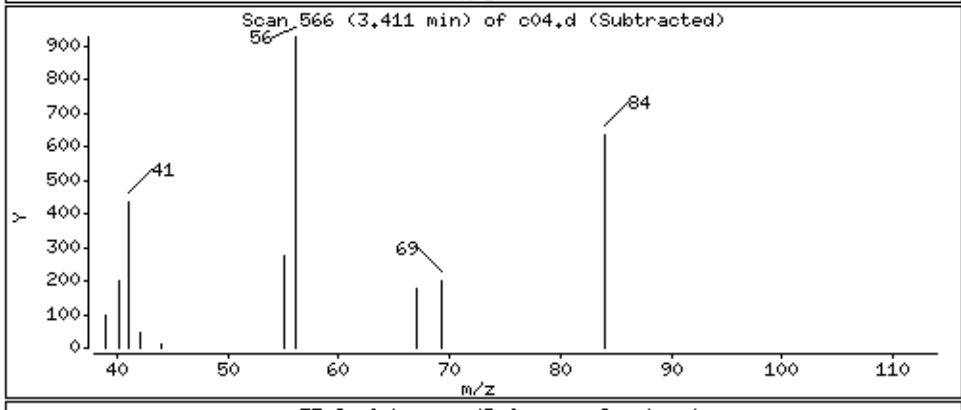
37 Cyclohexane

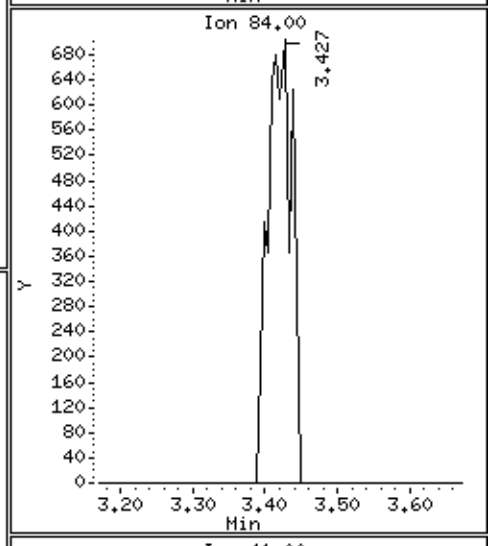
Concentration: 0.319 ppb

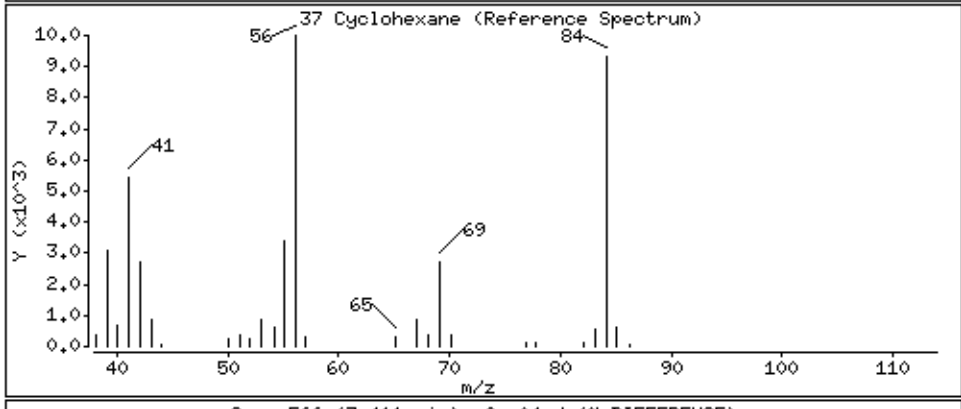
Review Code:

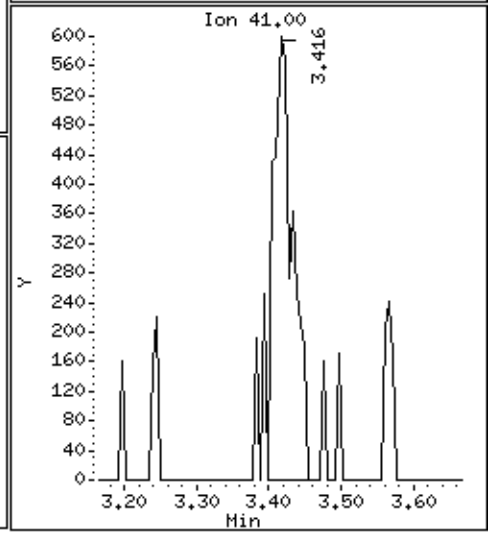


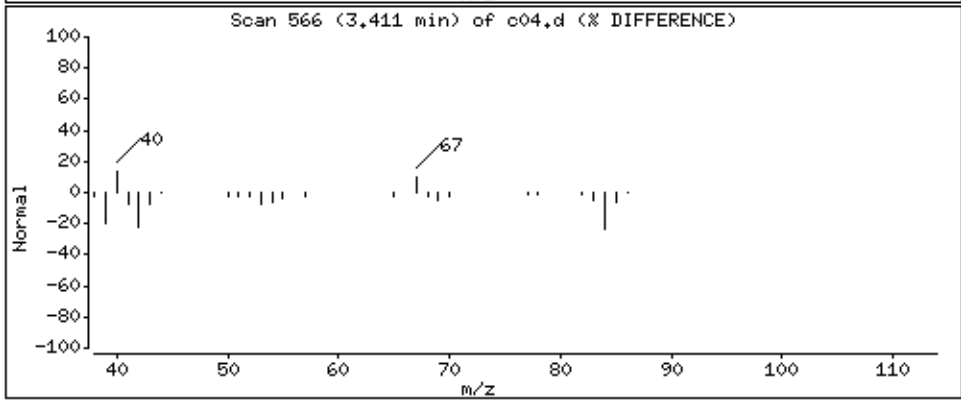












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c04.d

Date : 12-APR-2016 00:34

Client ID: MW-0502-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666004

Purge Volume: 5.0

Operator: jlz

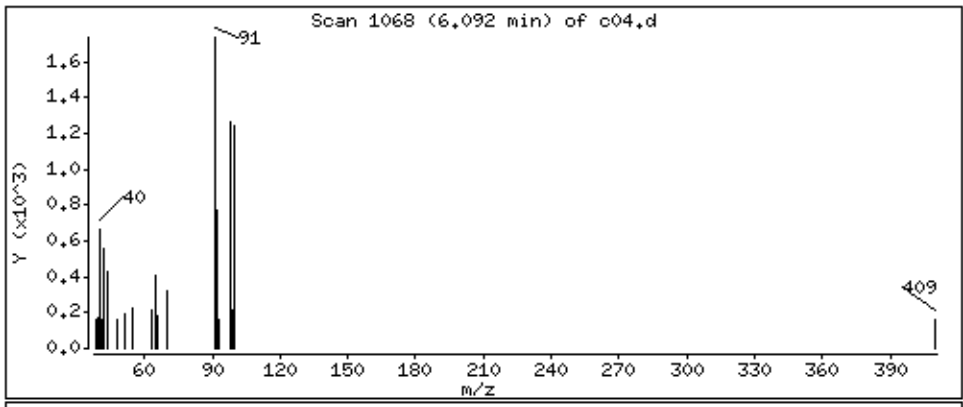
Column phase: DB-624

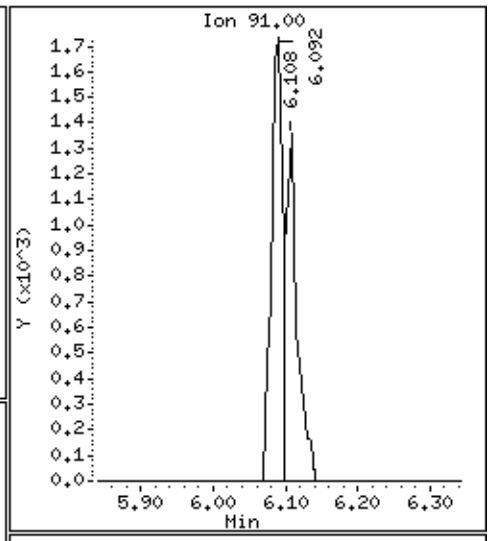
Column diameter: 0.18

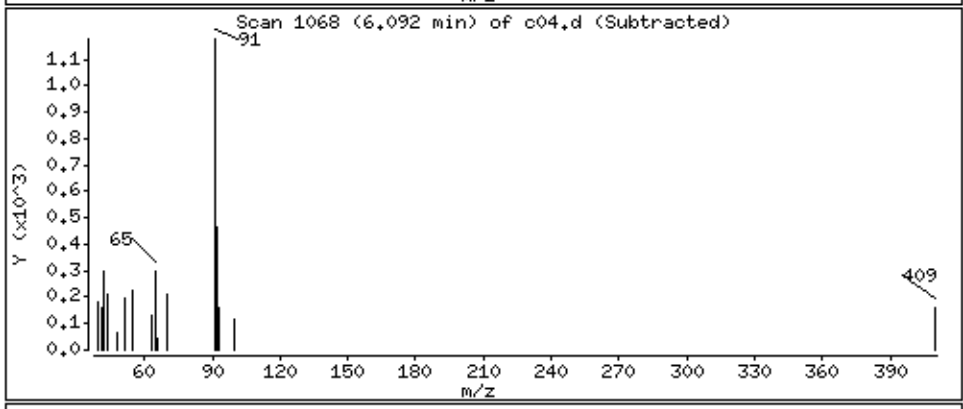
57 Toluene

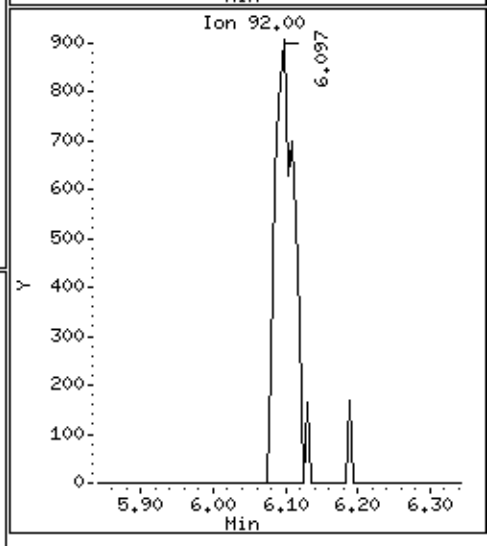
Concentration: 0.182 ppb

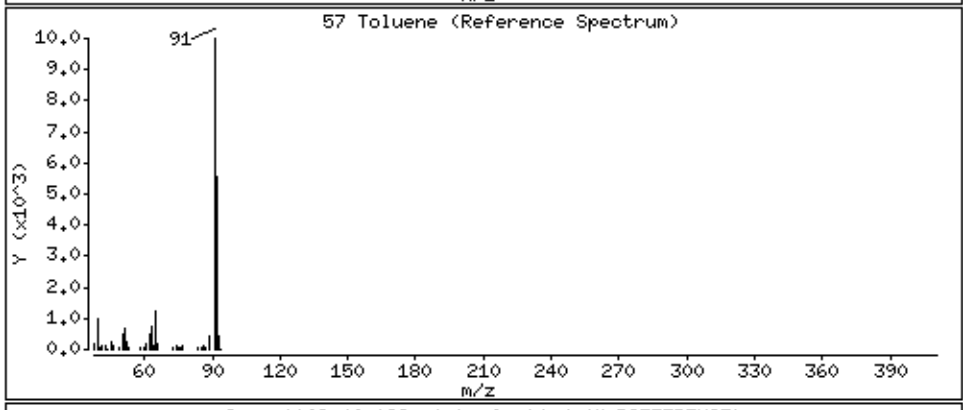
Review Code:

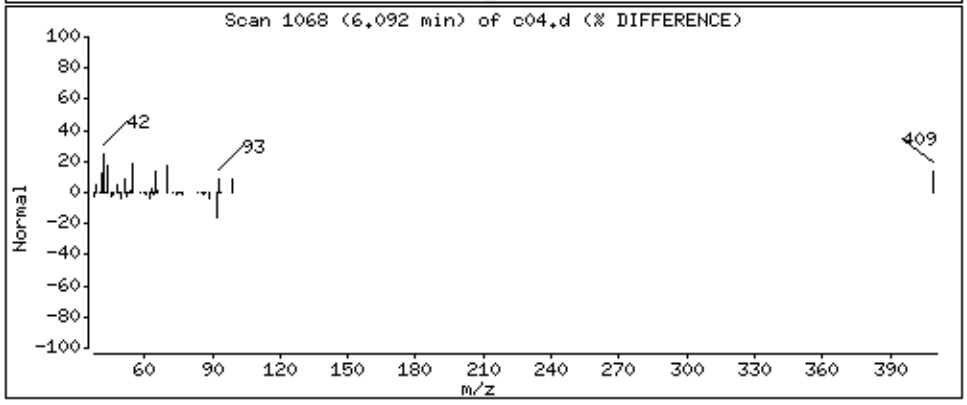












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c04.d
Injection Date: 12-APR-2016 00:34
Instrument: 50mv3a.i
Lab Sample ID: 50141666004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0503-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:06 Lab Sample ID: 50141666005

Date Analyzed: 04/12/2016 01:06 Lab File ID: A041116.B\C05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0503-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:06 Lab Sample ID: 50141666005

Date Analyzed: 04/12/2016 01:06 Lab File ID: A041116.B\C05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c05.d
Lab Smp Id: 50141666005 Client Smp ID: MW-0503-S1(033016)P
Inj Date : 12-APR-2016 01:06
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666005
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 57
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

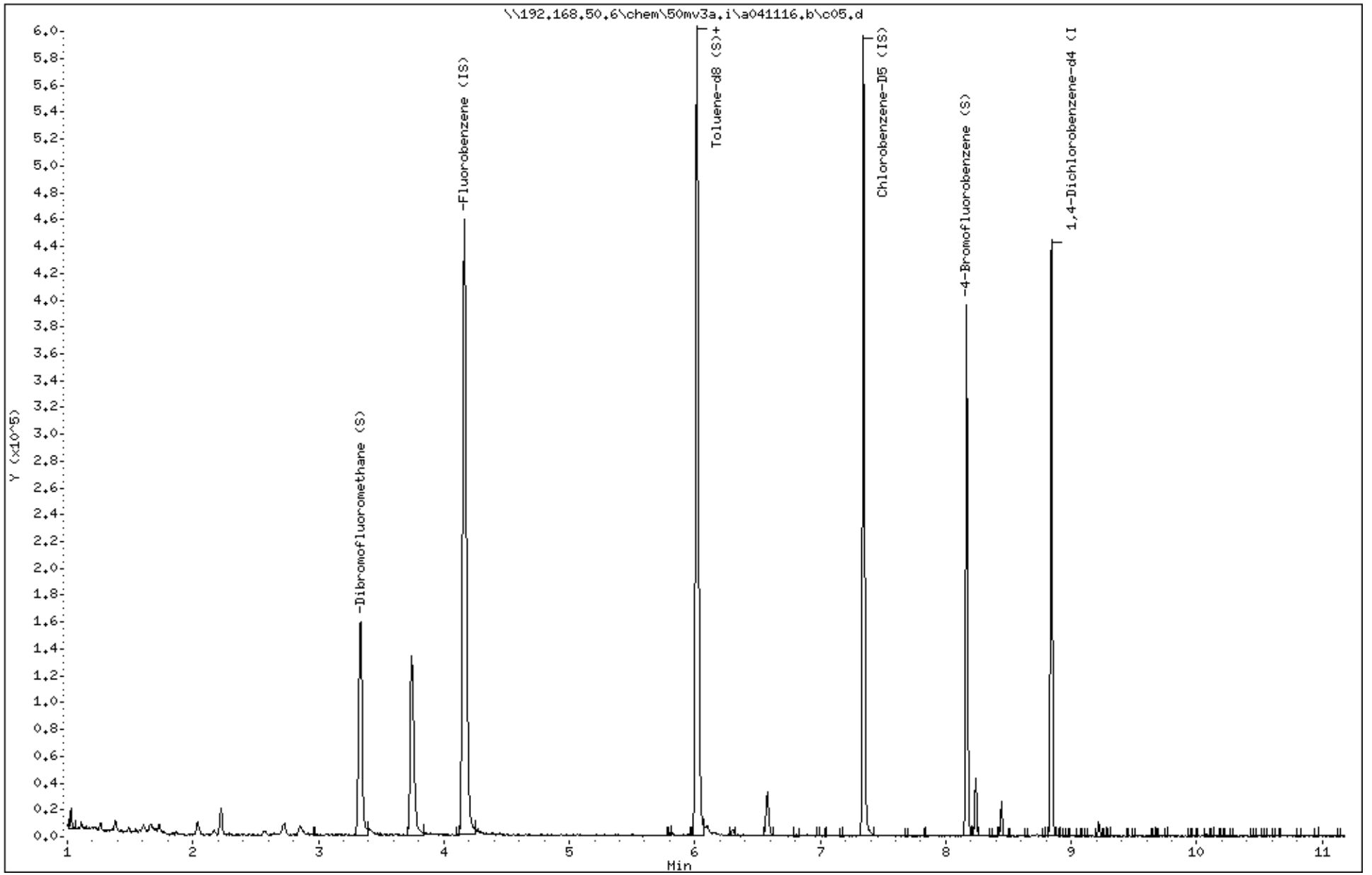
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.610	1.605	(0.386)	4214	7.36768	7.37	
$ 35 Dibromofluoromethane (S)	113	3.330	3.330	(0.799)	104724	51.3858	51.4	
* 45 Fluorobenzene (IS)	96	4.168	4.163	(1.000)	452312	50.0000		
$ 56 Toluene-d8 (S)	98	6.016	6.017	(0.820)	357095	50.0879	50.1	
57 Toluene	91	6.091	6.091	(0.830)	2926	0.32014	0.320	
* 66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	207522	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	74370	43.3732	43.4	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	70531	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c05.d
Date : 12-APR-2016 01:06
Client ID: MW-0503-S1(033016)P
Instrument: 50mv3a.i
Sample Info: 50141666005
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c05.d

Date : 12-APR-2016 01:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666005

Purge Volume: 5.0

Operator: jlz

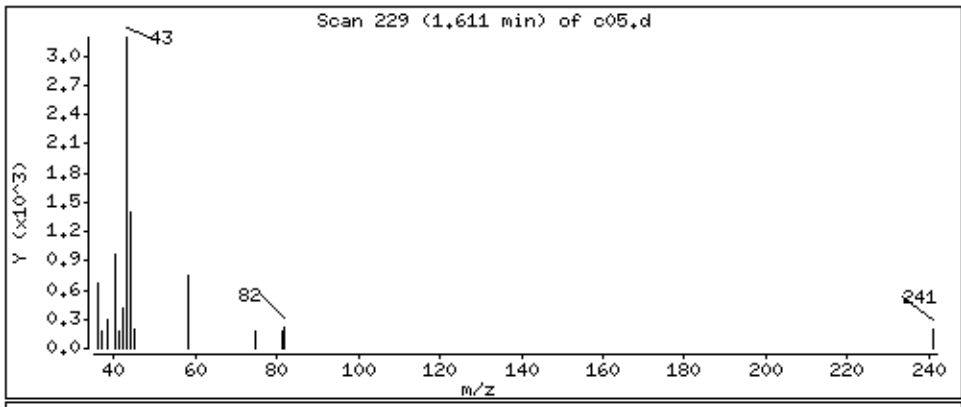
Column phase: DB-624

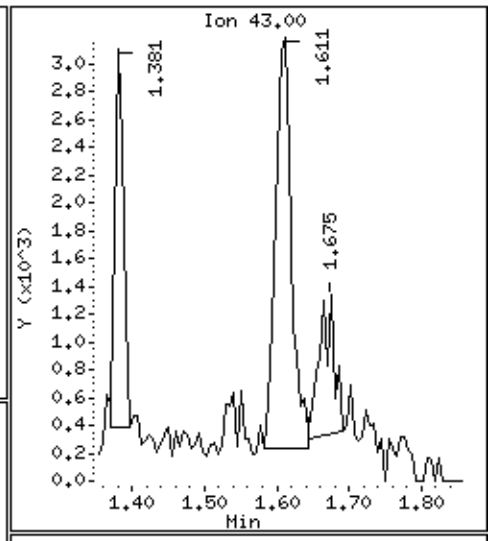
Column diameter: 0.18

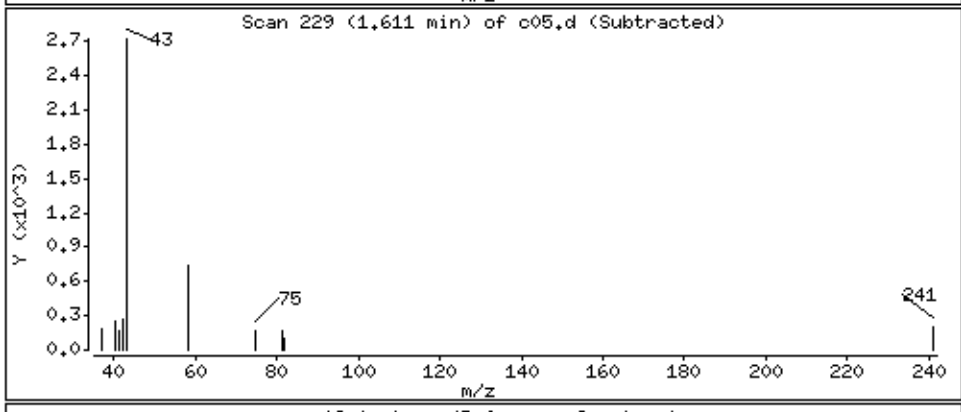
12 Acetone

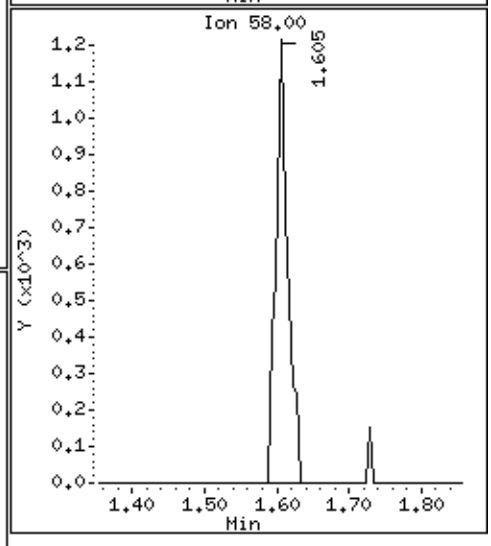
Concentration: 7.37 ppb

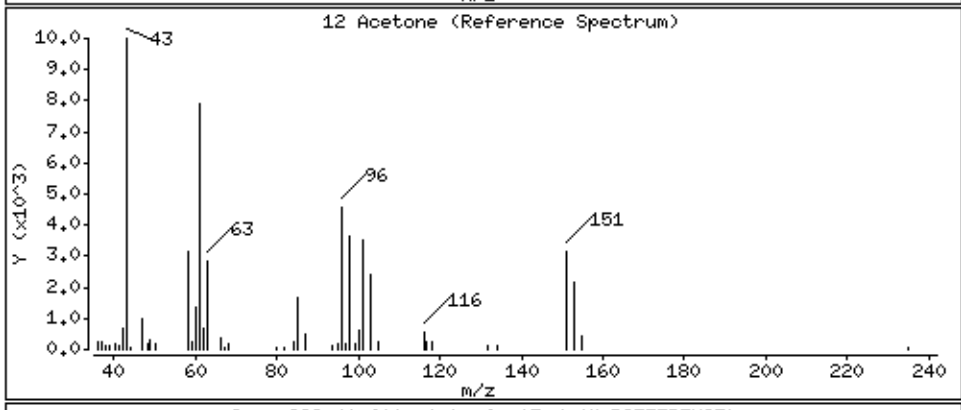
Review Code:

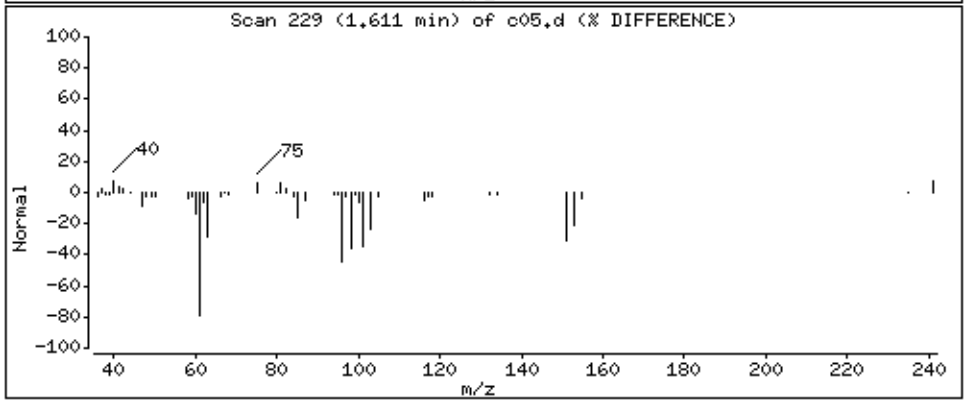












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c05.d

Date : 12-APR-2016 01:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666005

Purge Volume: 5.0

Operator: jlz

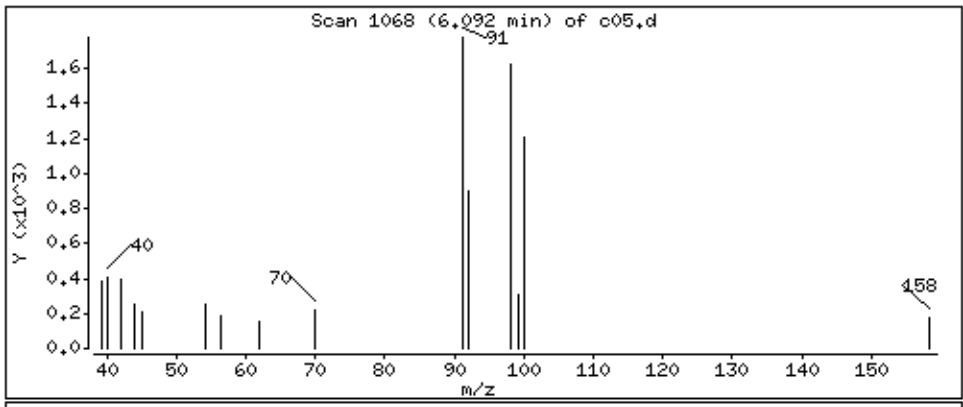
Column phase: DB-624

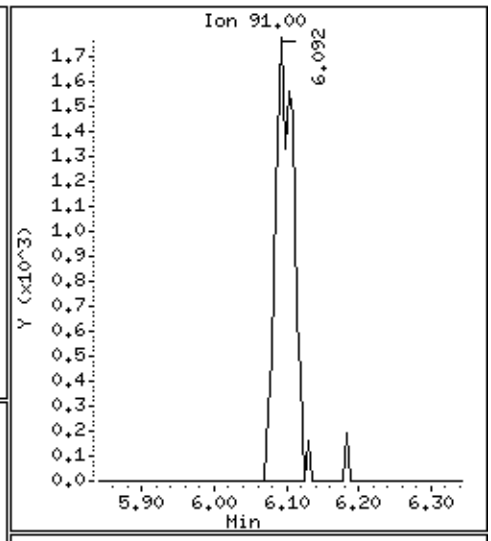
Column diameter: 0.18

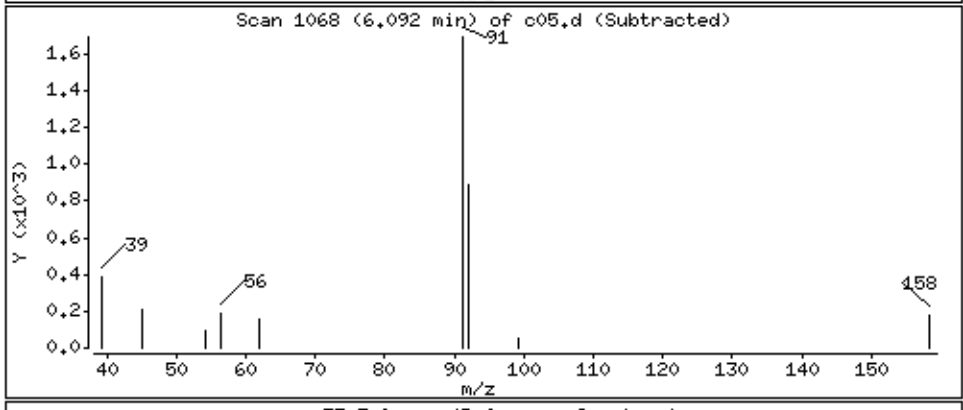
57 Toluene

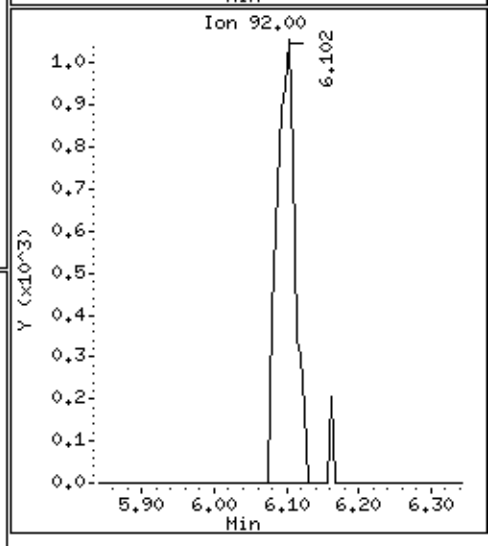
Concentration: 0.320 ppb

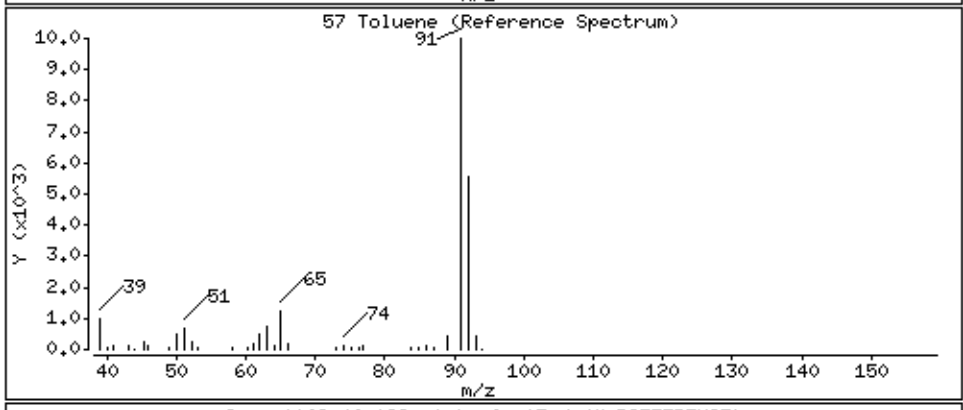
Review Code:

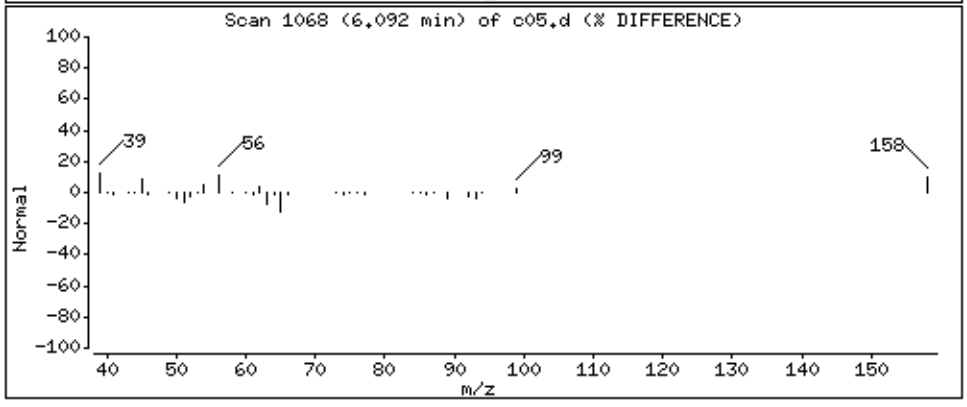












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c05.d
Injection Date: 12-APR-2016 01:06
Instrument: 50mv3a.i
Lab Sample ID: 50141666005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0505-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:38 Lab Sample ID: 50141666006

Date Analyzed: 04/12/2016 01:38 Lab File ID: A041116.B\C06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	6.8	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0505-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:38 Lab Sample ID: 50141666006

Date Analyzed: 04/12/2016 01:38 Lab File ID: A041116.B\C06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d
Lab Smp Id: 50141666006 Client Smp ID: MW-0505-S1(033016)P
Inj Date : 12-APR-2016 01:38
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666006
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 59
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

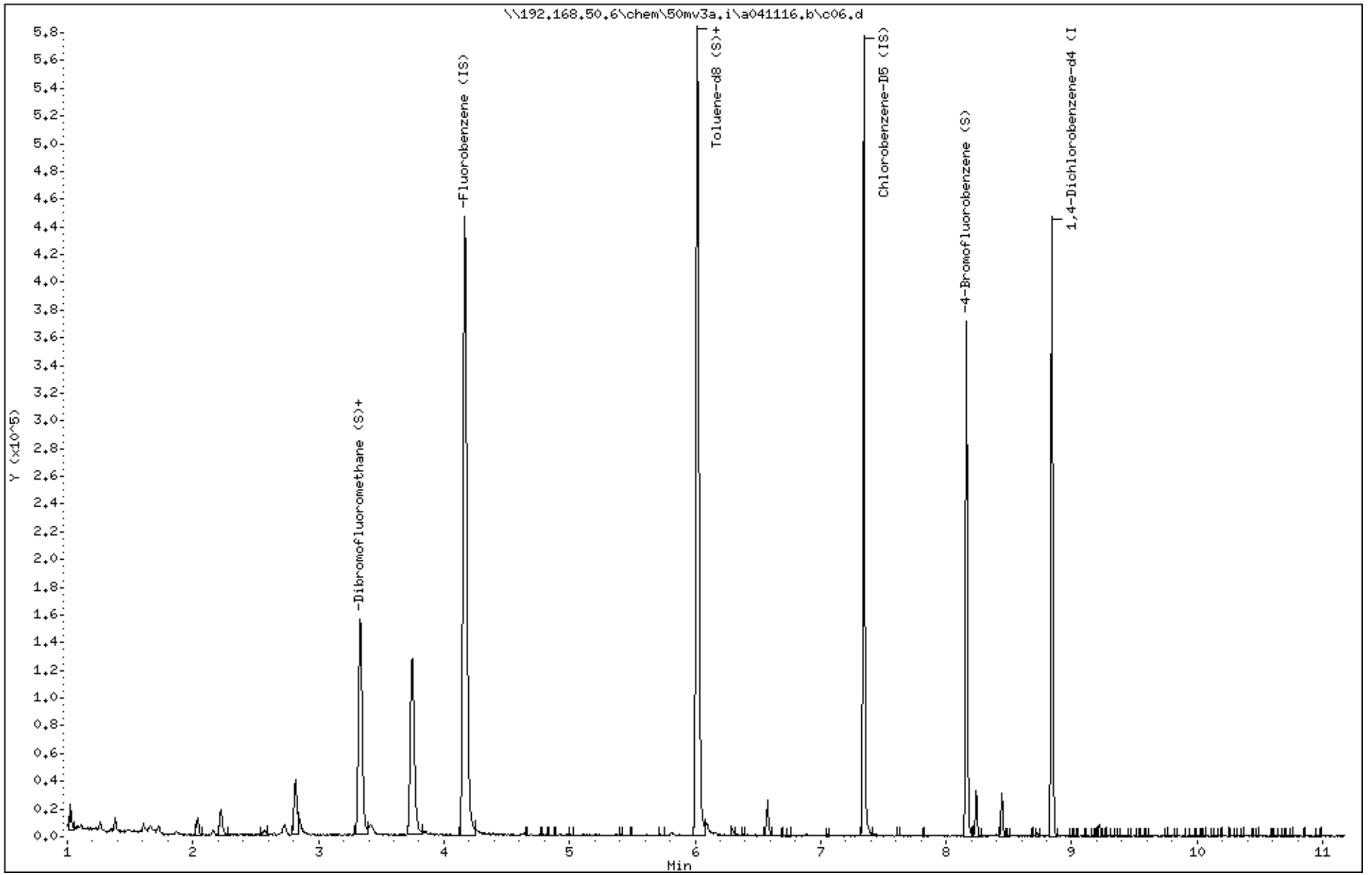
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.606	1.605	(0.386)	6747	12.0957	12.1	
	28 1,2-Dichloroethene (cis)	96	2.819	2.812	(0.677)	16357	6.76776	6.77	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	102098	51.3686	51.4	
	37 Cyclohexane	56	3.411	3.421	(0.819)	2327	0.51114	0.511	
*	45 Fluorobenzene (IS)	96	4.165	4.163	(1.000)	441118	50.0000		
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	346111	49.1172	49.1	
	57 Toluene	91	6.098	6.091	(0.831)	3380	0.37416	0.374	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	205114	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	72562	42.8156	42.8	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	67583	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d
Date : 12-APR-2016 01:38
Client ID: MW-0505-S1(033016)P
Sample Info: 50141666006
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d

Date : 12-APR-2016 01:38

Client ID: MW-0505-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666006

Purge Volume: 5.0

Operator: jlz

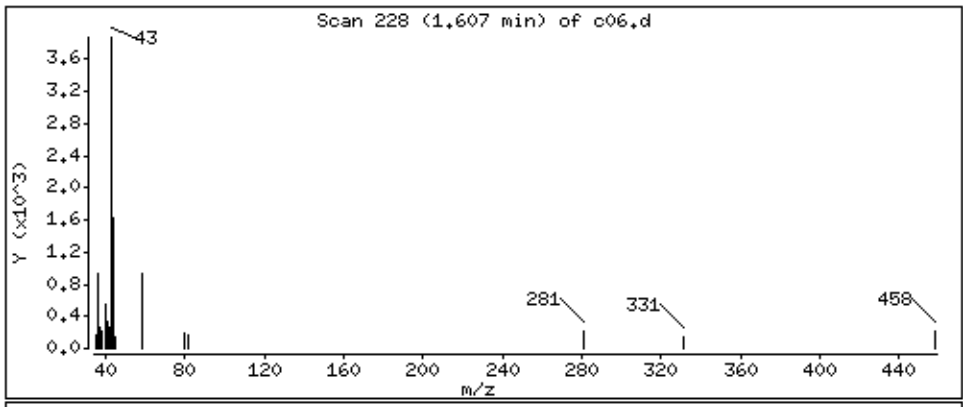
Column phase: DB-624

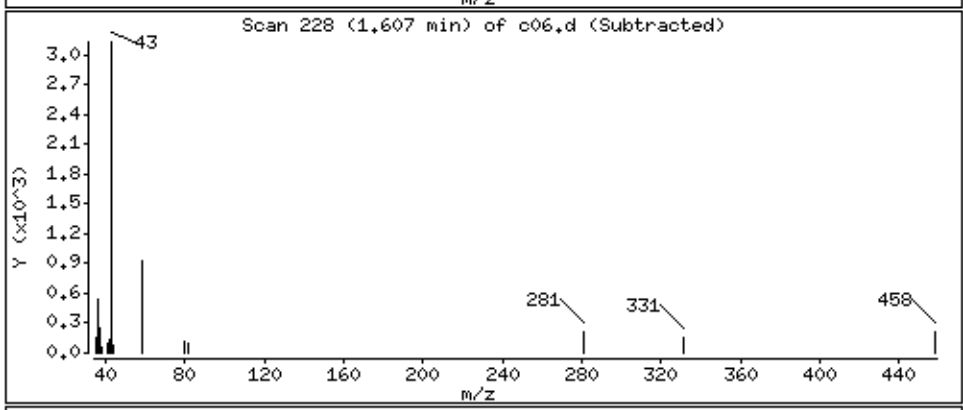
Column diameter: 0.18

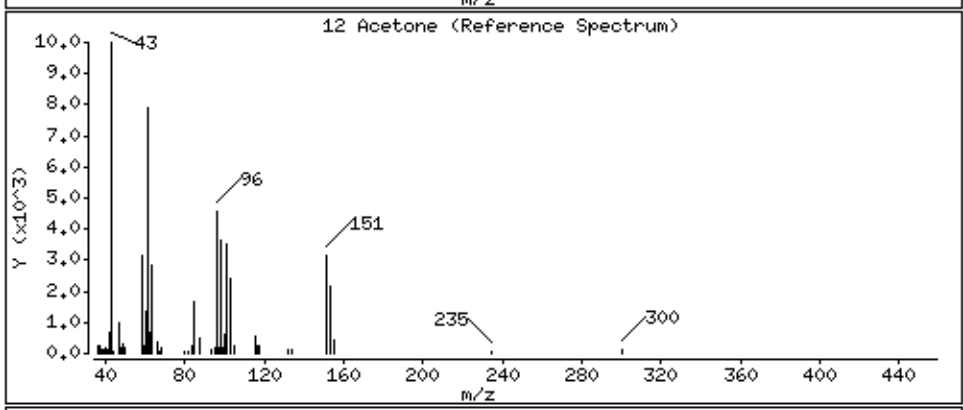
12 Acetone

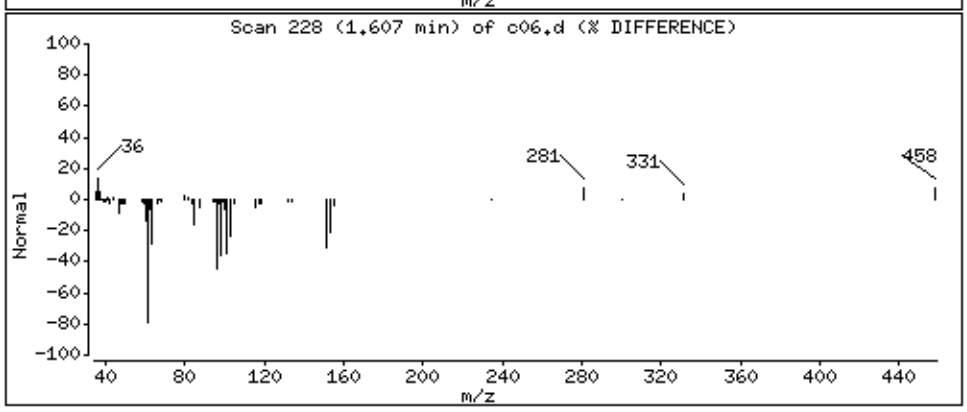
Concentration: 12.1 ppb

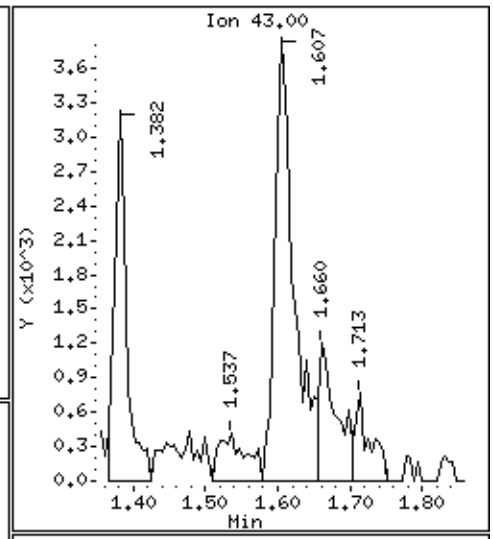
Review Code:

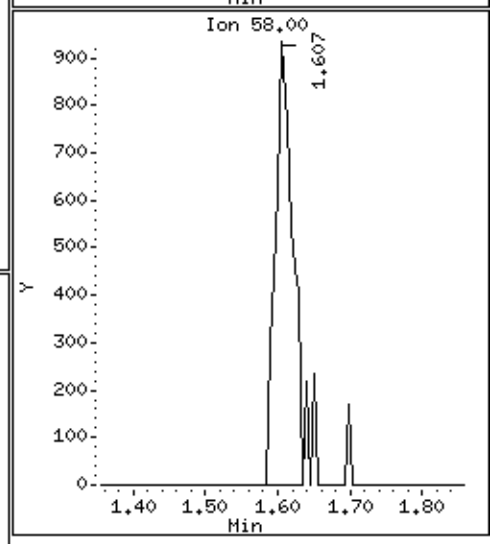












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d

Date : 12-APR-2016 01:38

Client ID: MW-0505-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666006

Purge Volume: 5.0

Operator: jlz

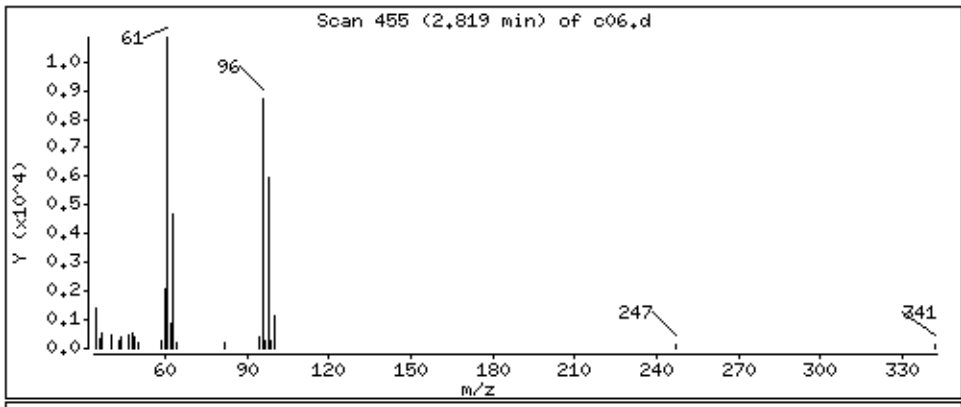
Column phase: DB-624

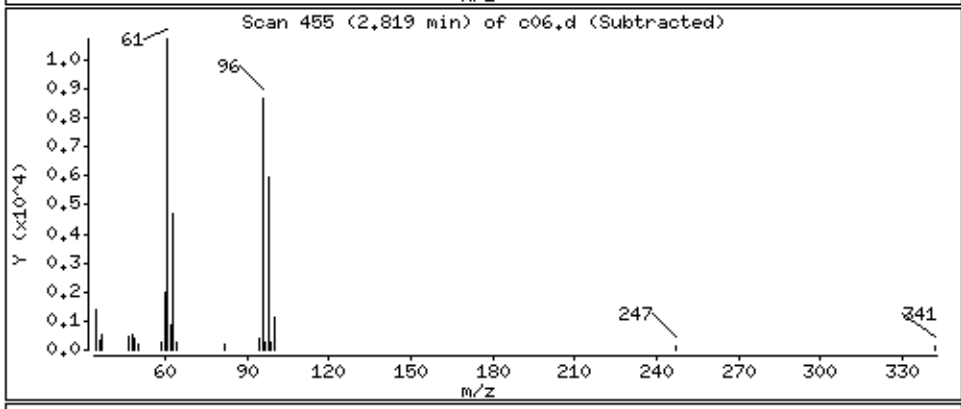
Column diameter: 0.18

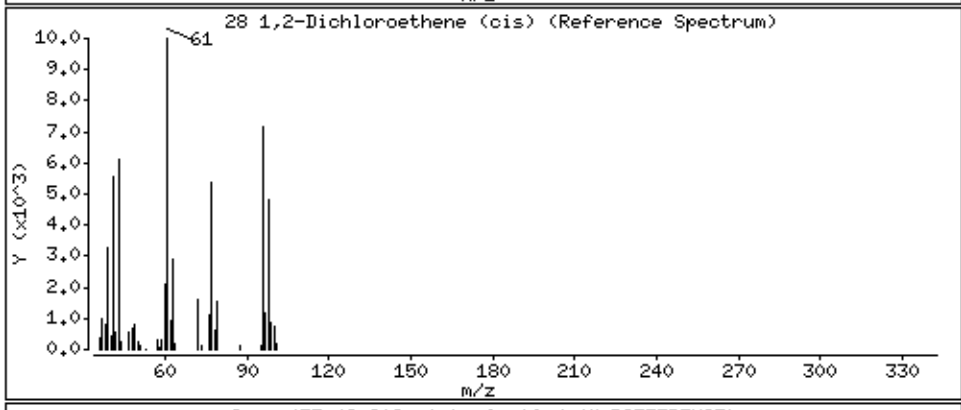
28 1,2-Dichloroethene (cis)

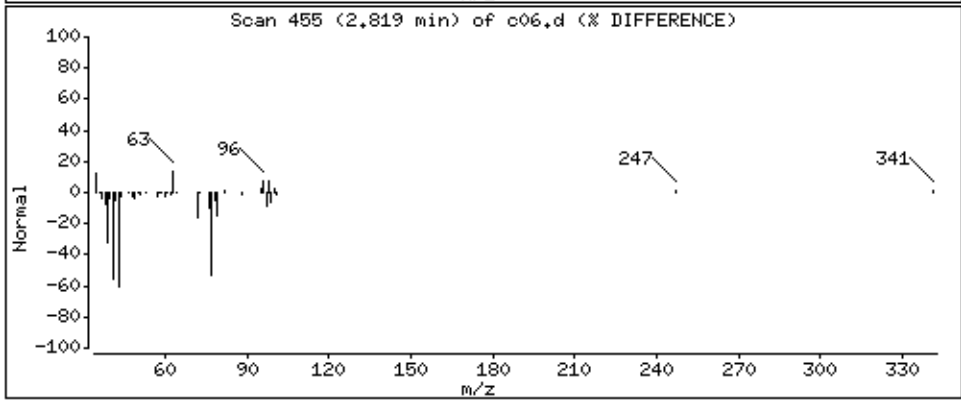
Concentration: 6.77 ppb

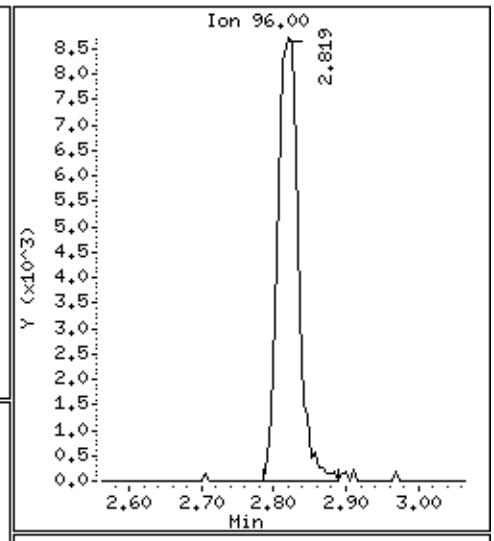
Review Code:

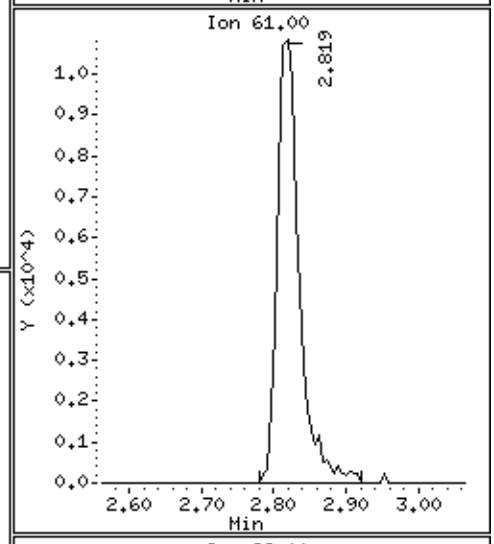


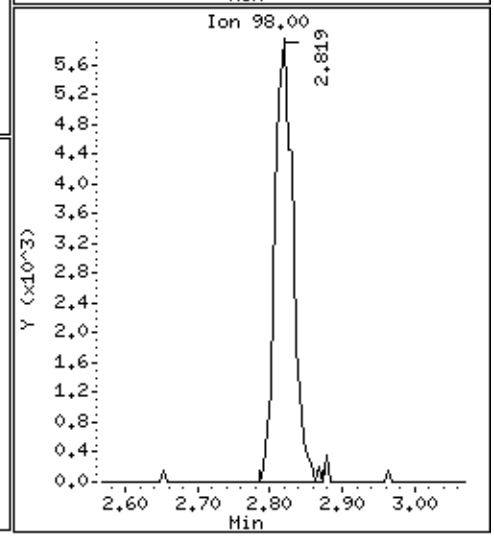












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d

Date : 12-APR-2016 01:38

Client ID: MW-0505-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666006

Purge Volume: 5.0

Operator: jlz

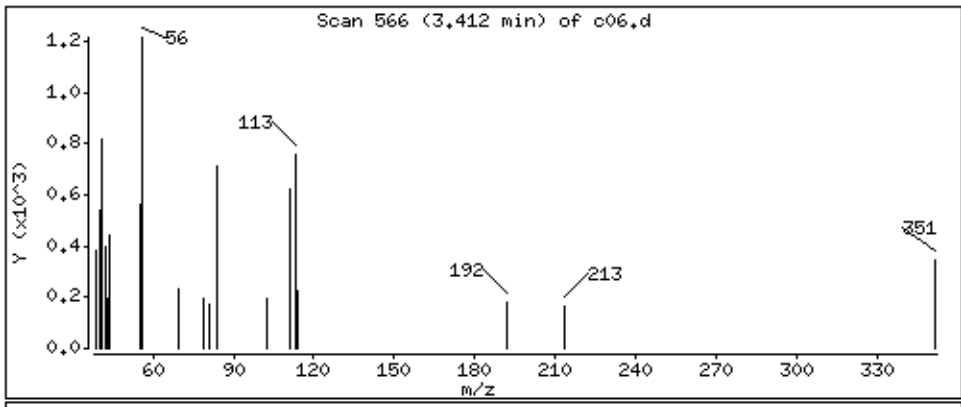
Column phase: DB-624

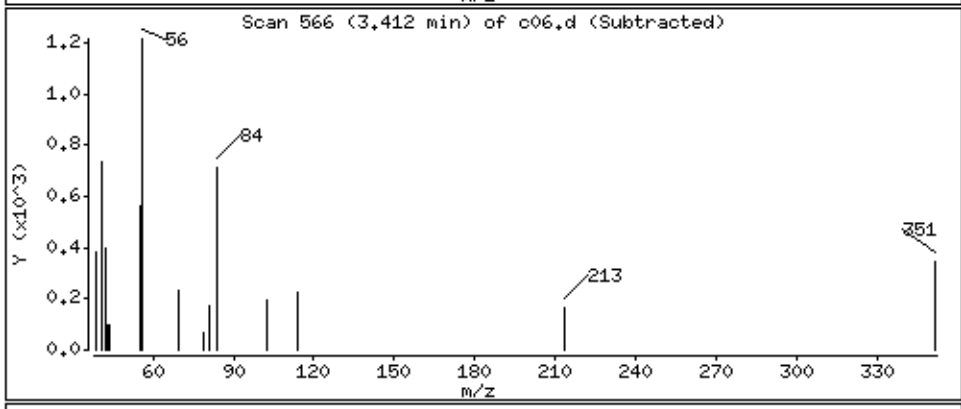
Column diameter: 0.18

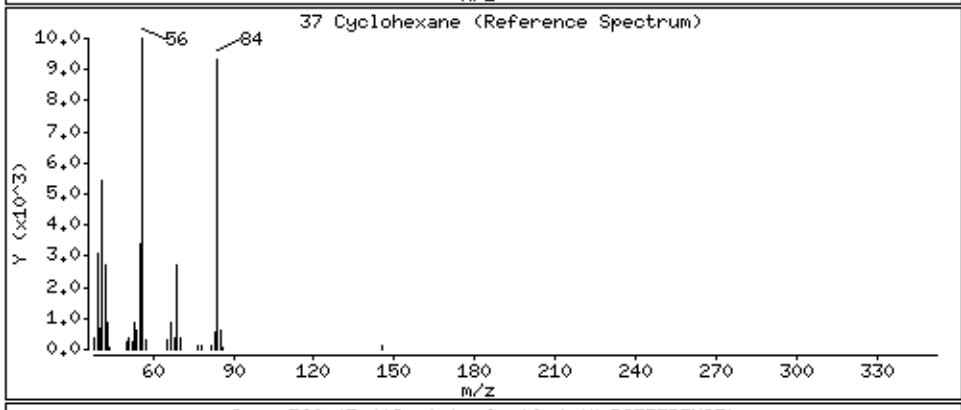
37 Cyclohexane

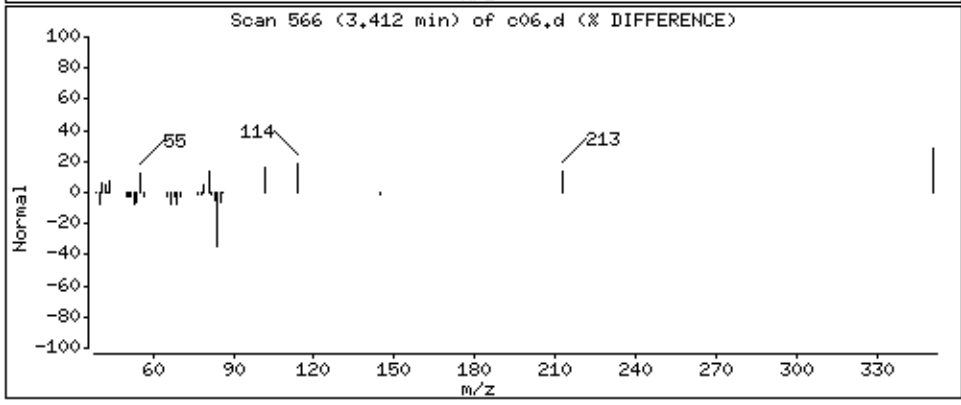
Concentration: 0.511 ppb

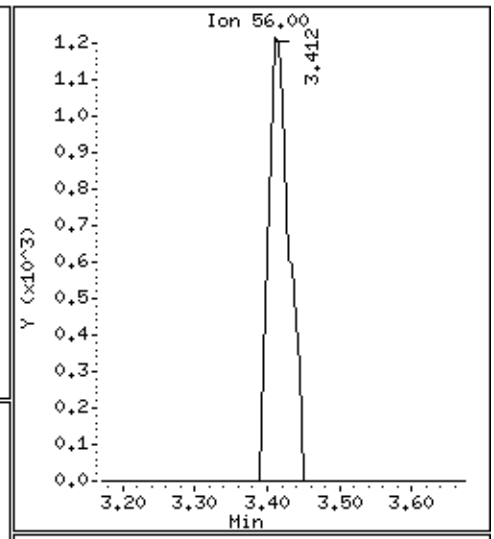
Review Code:

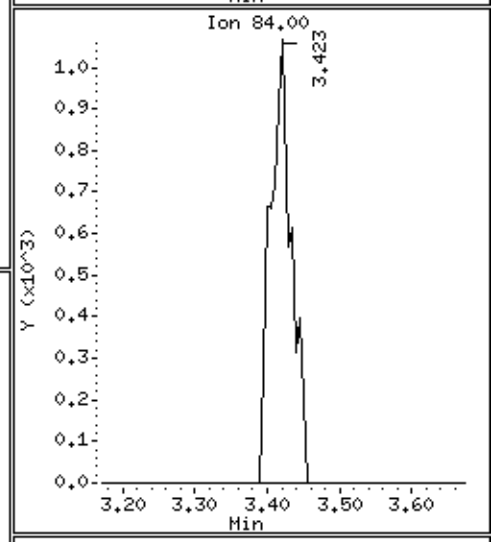


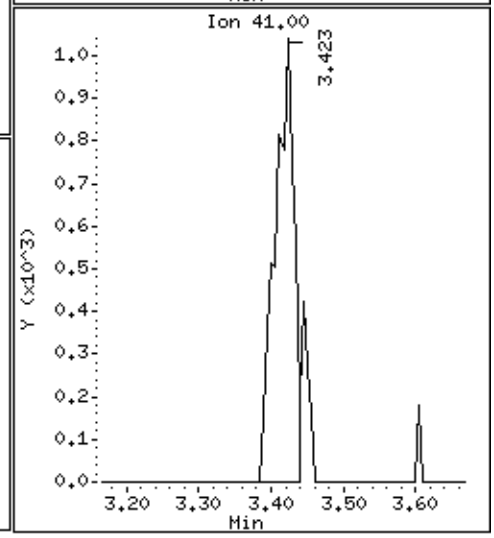












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c06.d

Date : 12-APR-2016 01:38

Client ID: MW-0505-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666006

Purge Volume: 5.0

Operator: jlz

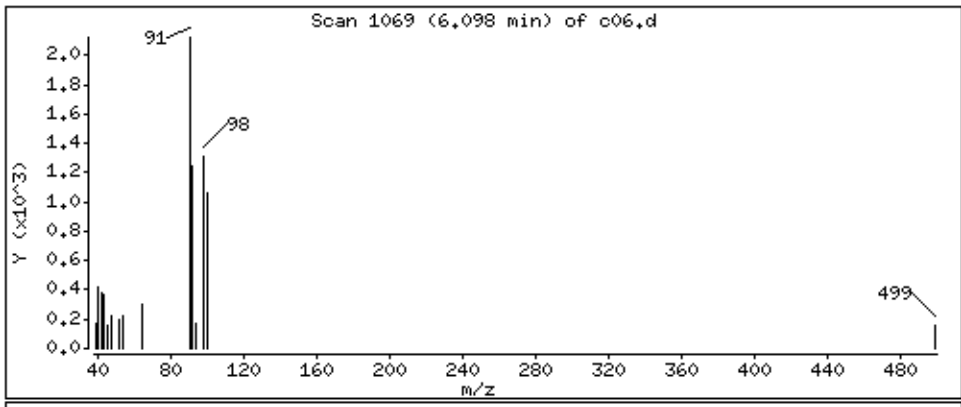
Column phase: DB-624

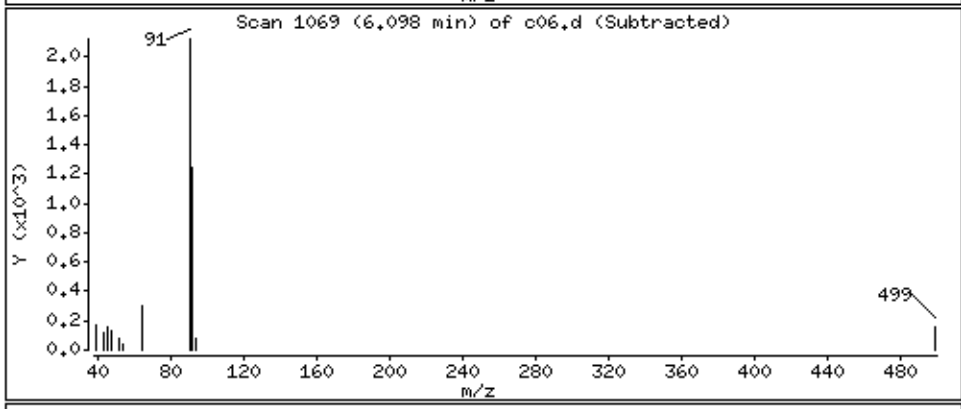
Column diameter: 0.18

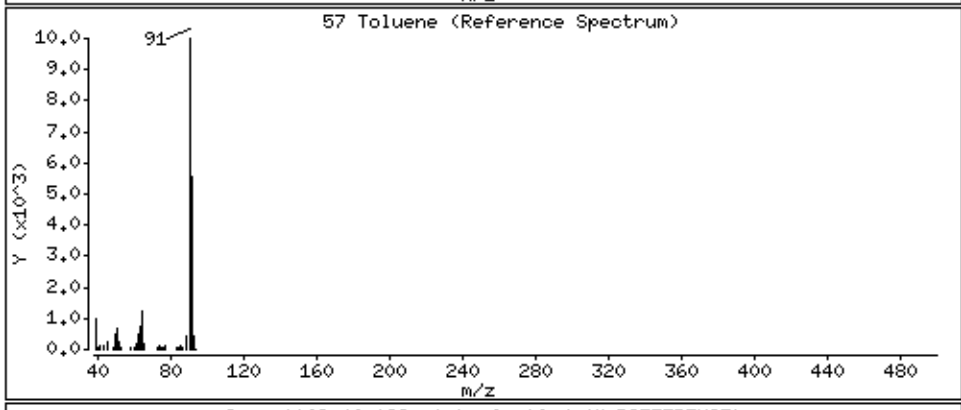
57 Toluene

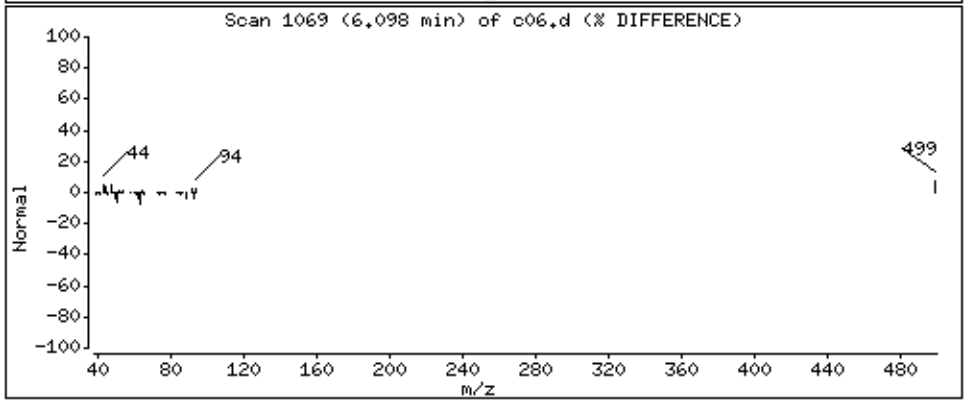
Concentration: 0.374 ppb

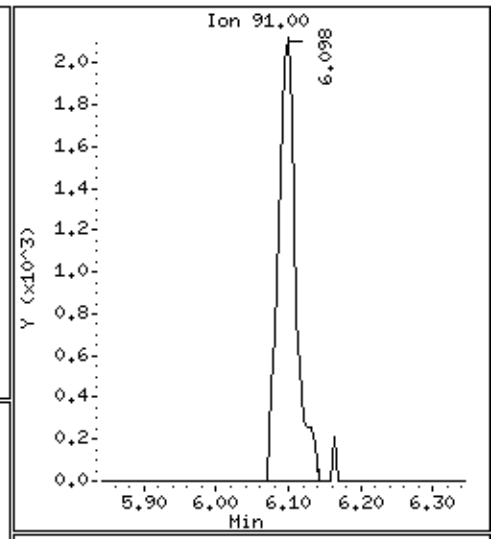
Review Code:

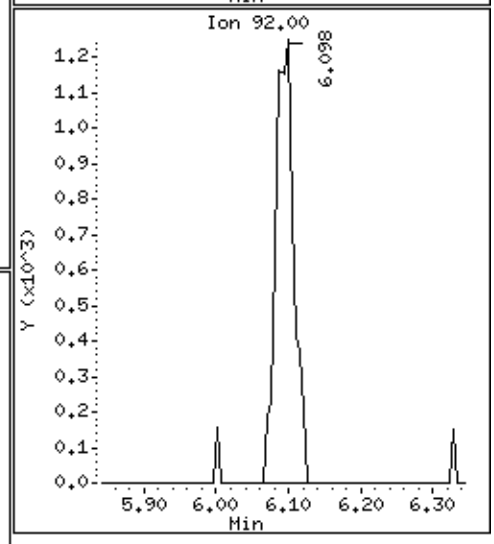












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c06.d
Injection Date: 12-APR-2016 01:38
Instrument: 50mv3a.i
Lab Sample ID: 50141666006
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EB-1(033016)-LM

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:10 Lab Sample ID: 50141666007

Date Analyzed: 04/12/2016 02:10 Lab File ID: A041116.B\C07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

EB-1(033016)-LM

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:10 Lab Sample ID: 50141666007

Date Analyzed: 04/12/2016 02:10 Lab File ID: A041116.B\C07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c07.d
Lab Smp Id: 50141666007 Client Smp ID: EB-1(033016)-LM
Inj Date : 12-APR-2016 02:10
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666007
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

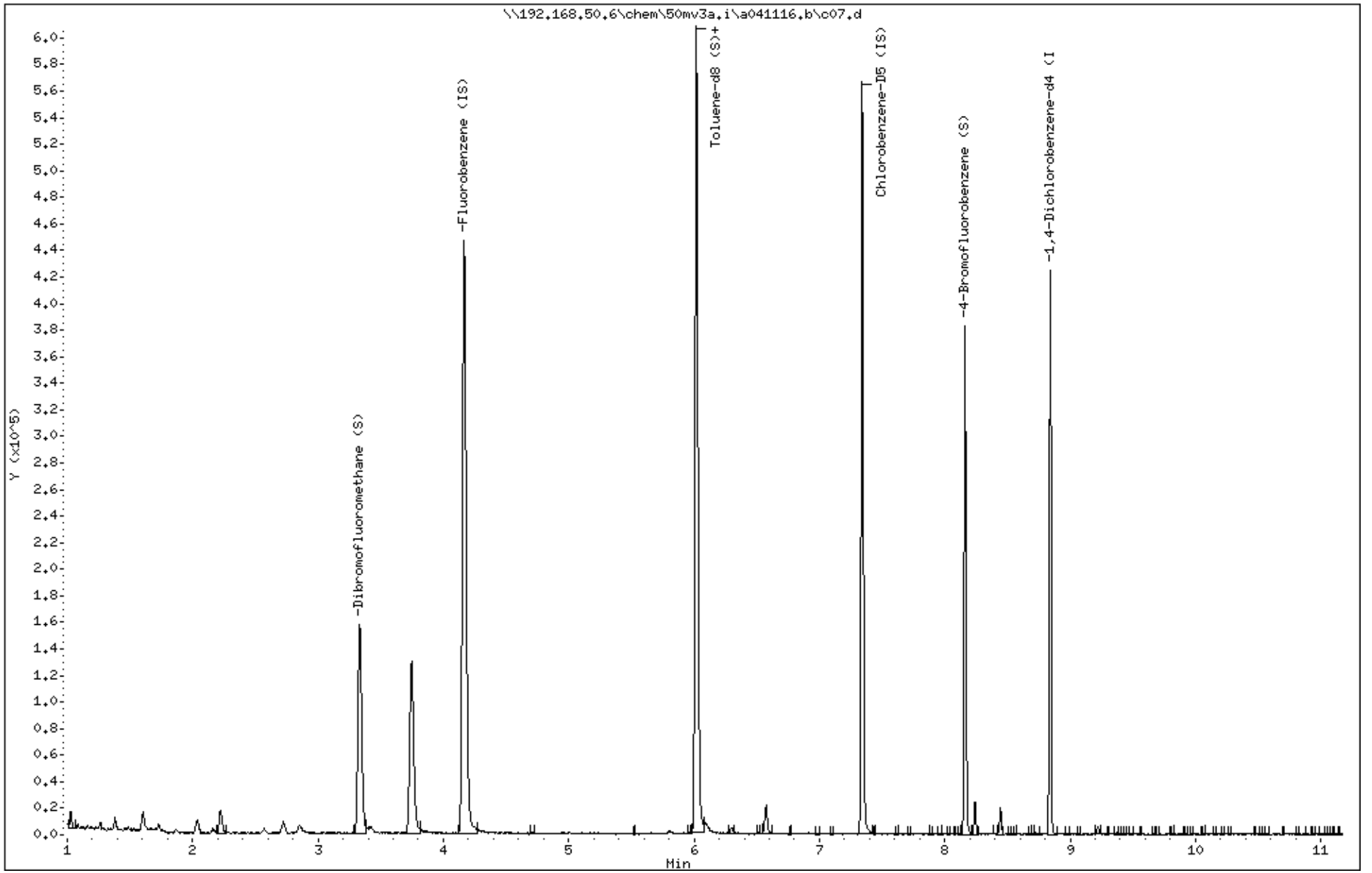
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.605	1.605	(0.386)	15423	27.7132	27.7	
$ 35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	102830	51.8560	51.8	
* 45 Fluorobenzene (IS)	96	4.163	4.163	(1.000)	440105	50.0000		
$ 56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	347146	48.6380	48.6	
57 Toluene	91	6.102	6.091	(0.831)	3475	0.37979	0.380	
* 66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	207754	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	73354	42.7329	42.7	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.837	8.842	(1.000)	67323	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c07.d
Date : 12-APR-2016 02:10
Client ID: EB-1(033016)-LM
Instrument: 50mv3a.i
Sample Info: 50141666007
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c07.d

Date : 12-APR-2016 02:10

Client ID: EB-1(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666007

Purge Volume: 5.0

Operator: jlz

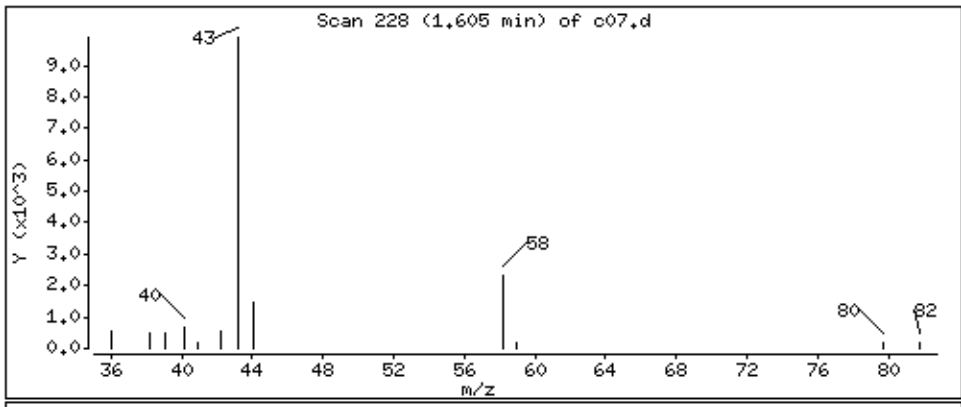
Column phase: DB-624

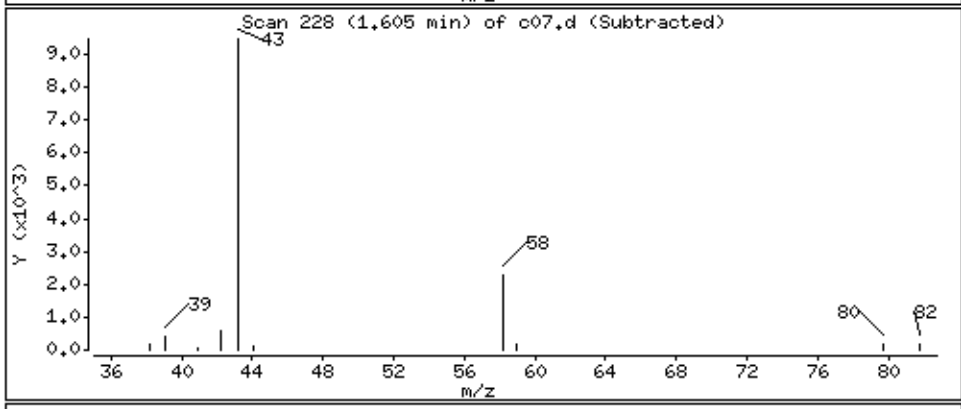
Column diameter: 0.18

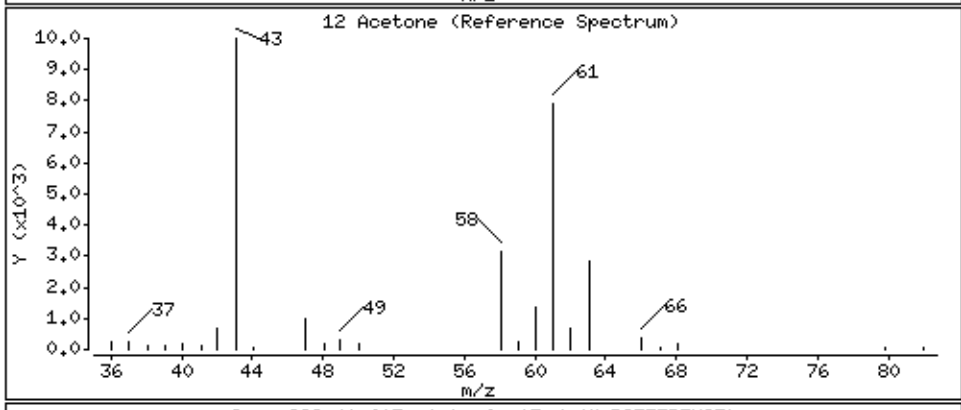
12 Acetone

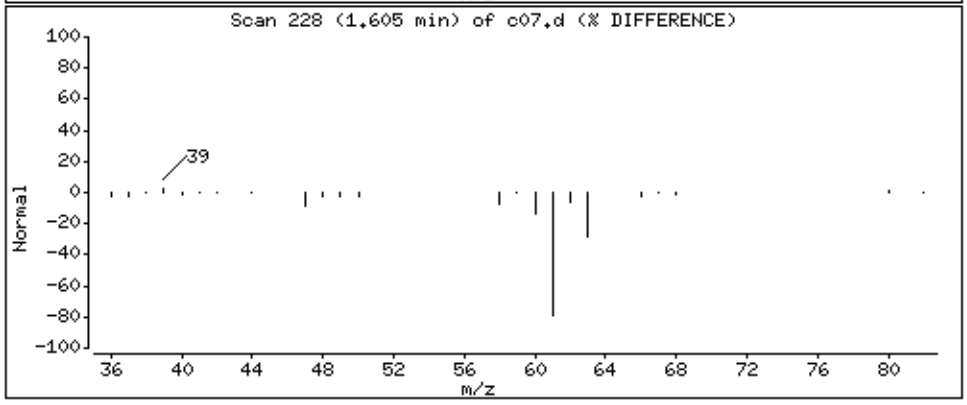
Concentration: 27.7 ppb

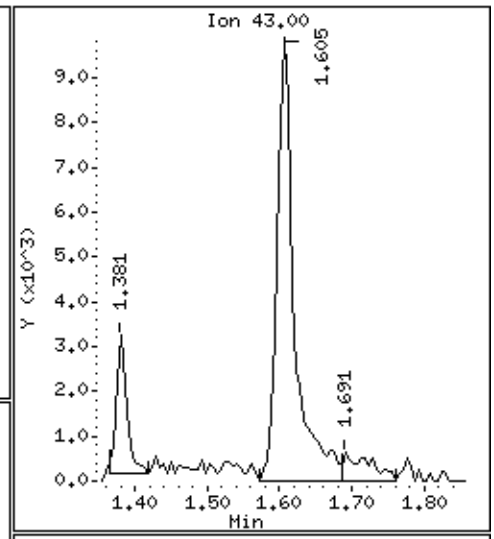
Review Code:

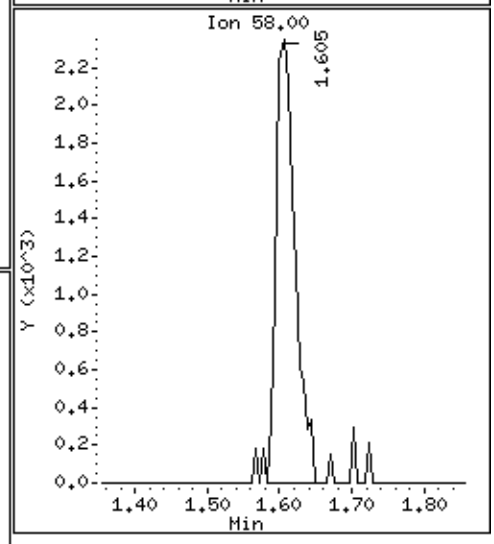












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c07.d

Date : 12-APR-2016 02:10

Client ID: EB-1(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666007

Purge Volume: 5.0

Operator: jlz

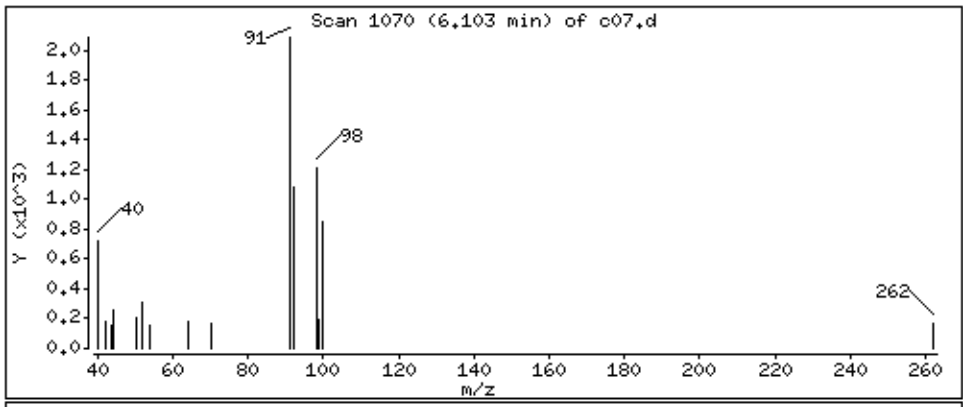
Column phase: DB-624

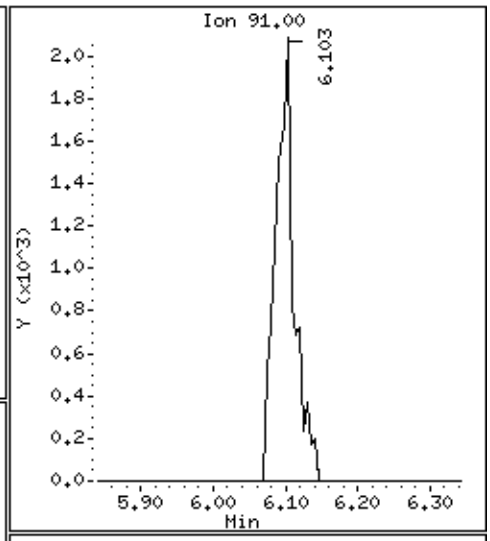
Column diameter: 0.18

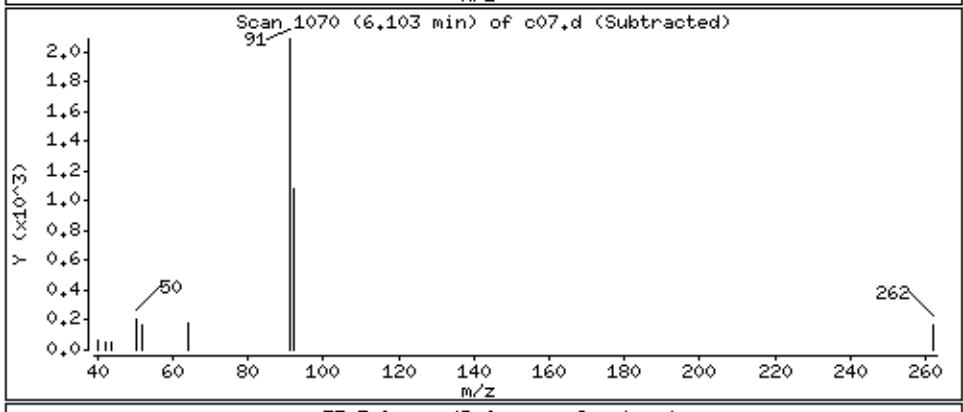
57 Toluene

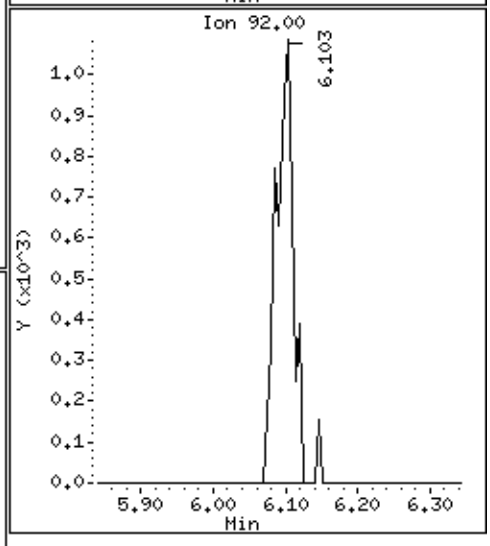
Concentration: 0.380 ppb

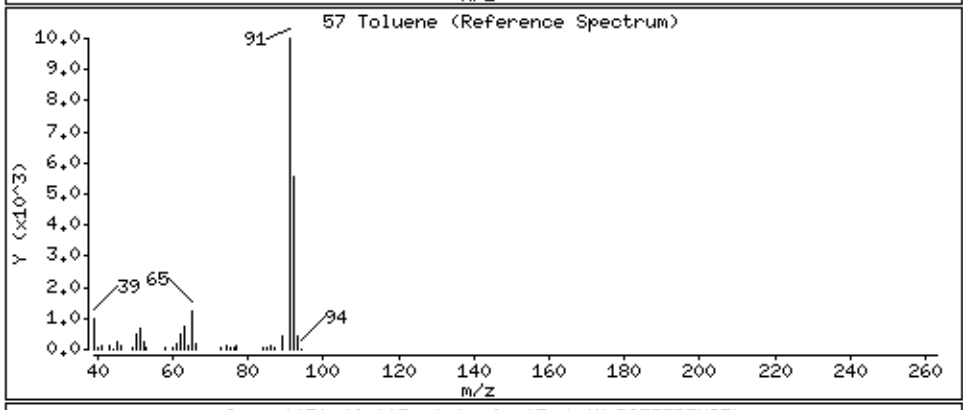
Review Code:

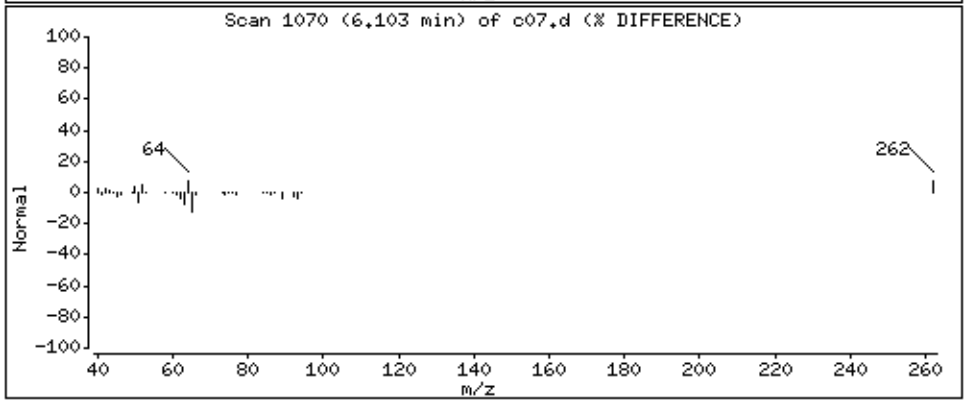












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c07.d
Injection Date: 12-APR-2016 02:10
Instrument: 50mv3a.i
Lab Sample ID: 50141666007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0506-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:42 Lab Sample ID: 50141666008

Date Analyzed: 04/12/2016 02:42 Lab File ID: A041116.B\C08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0506-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:42 Lab Sample ID: 50141666008

Date Analyzed: 04/12/2016 02:42 Lab File ID: A041116.B\C08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c08.d
Lab Smp Id: 50141666008 Client Smp ID: MW-0506-S1(033016)P
Inj Date : 12-APR-2016 02:42
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666008
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

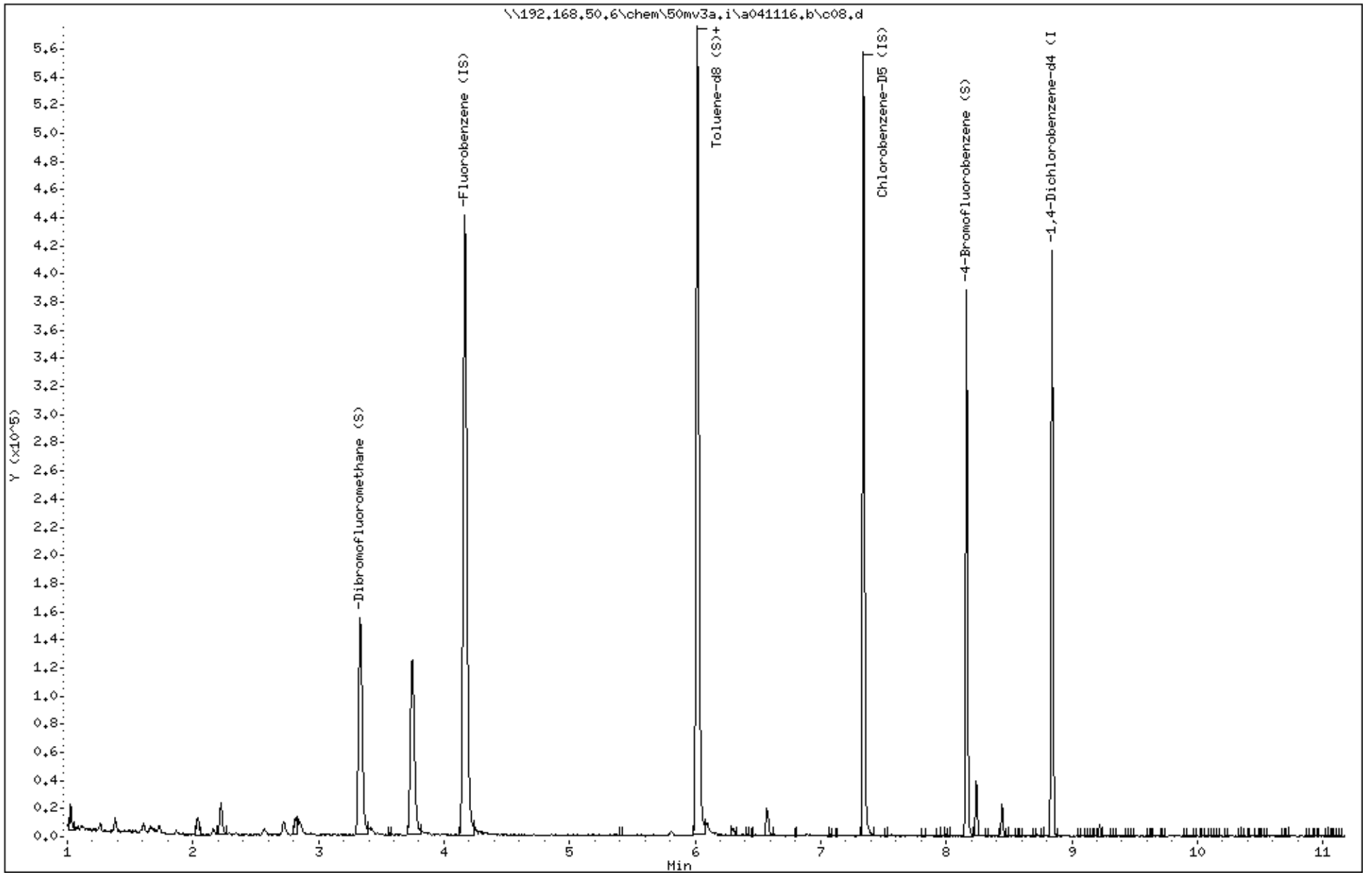
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.605	1.605	(0.386)	6157	11.2867	11.3	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	5004	2.11709	2.12	
$	35 Dibromofluoromethane (S)	113	3.336	3.330	(0.801)	100867	51.8930	51.9	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	431395	50.0000		
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	337604	49.2957	49.3	
	57 Toluene	91	6.092	6.091	(0.830)	3105	0.35366	0.354	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	199348	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	72376	43.9410	43.9	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.842	(1.000)	68295	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c08.d
Date : 12-APR-2016 02:42
Client ID: MW-0506-S1(033016)P
Sample Info: 50141666008
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c08.d

Date : 12-APR-2016 02:42

Client ID: MW-0506-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666008

Purge Volume: 5.0

Operator: jlz

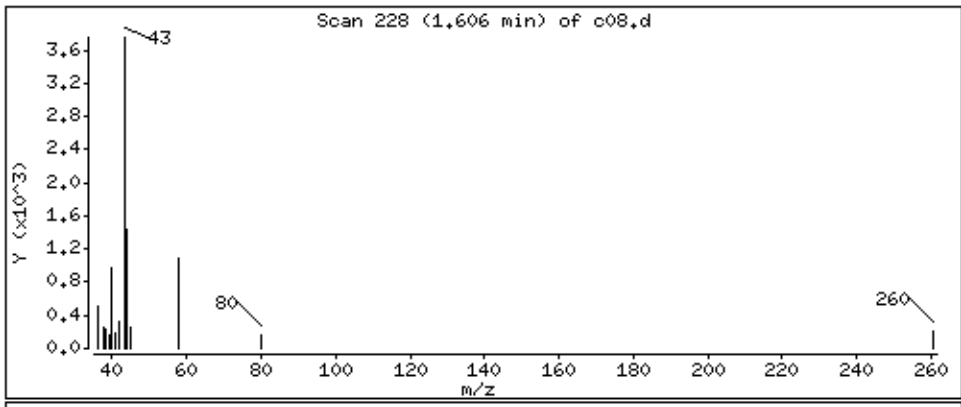
Column phase: DB-624

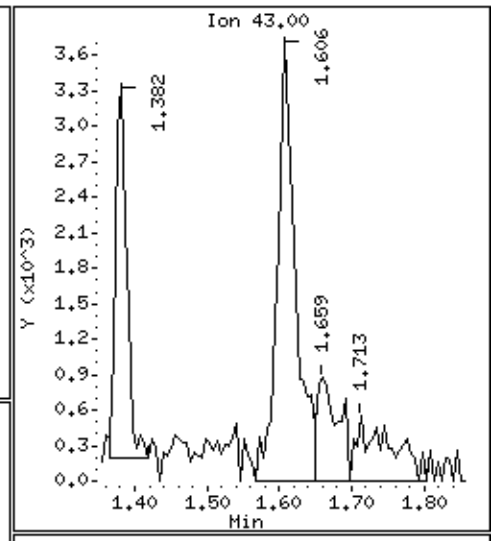
Column diameter: 0.18

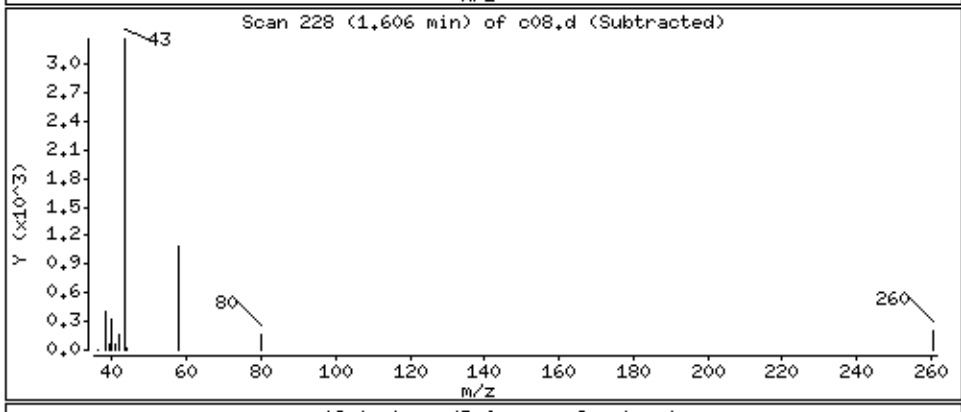
12 Acetone

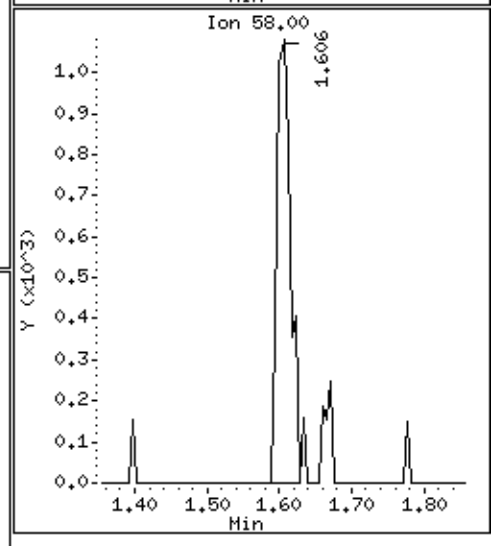
Concentration: 11.3 ppb

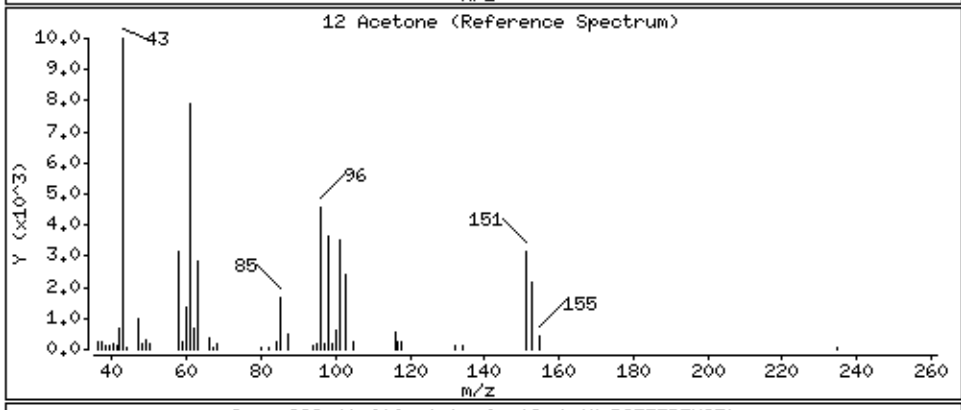
Review Code:

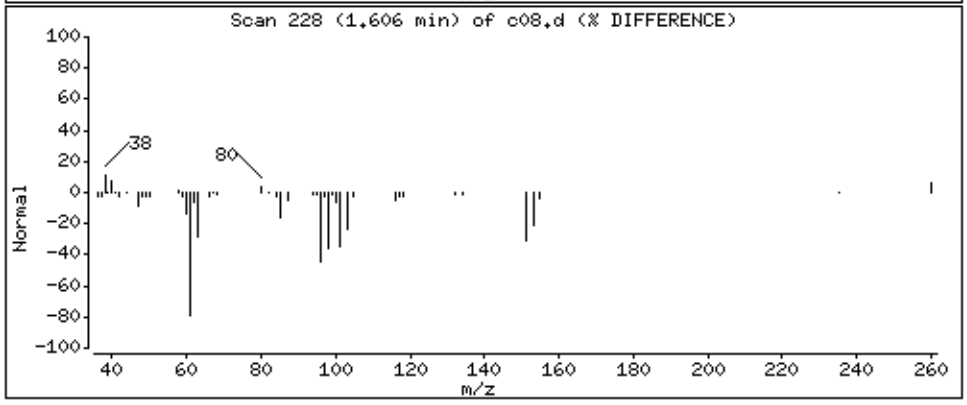












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c08.d

Date : 12-APR-2016 02:42

Client ID: MW-0506-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666008

Purge Volume: 5.0

Operator: jlz

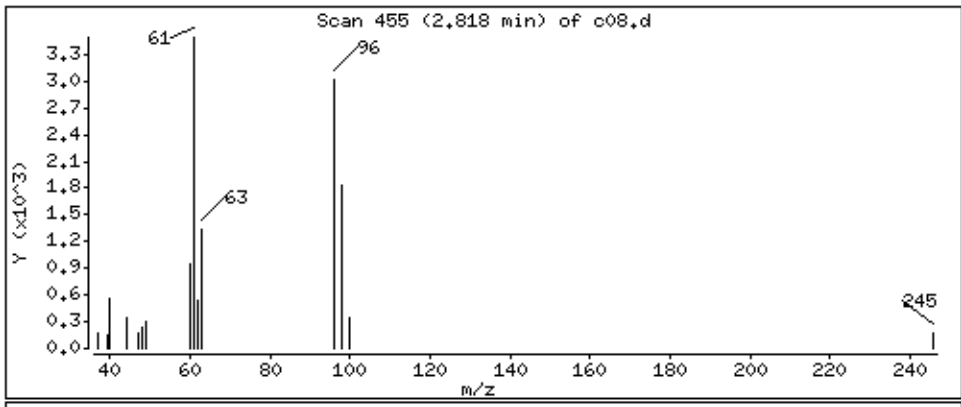
Column phase: DB-624

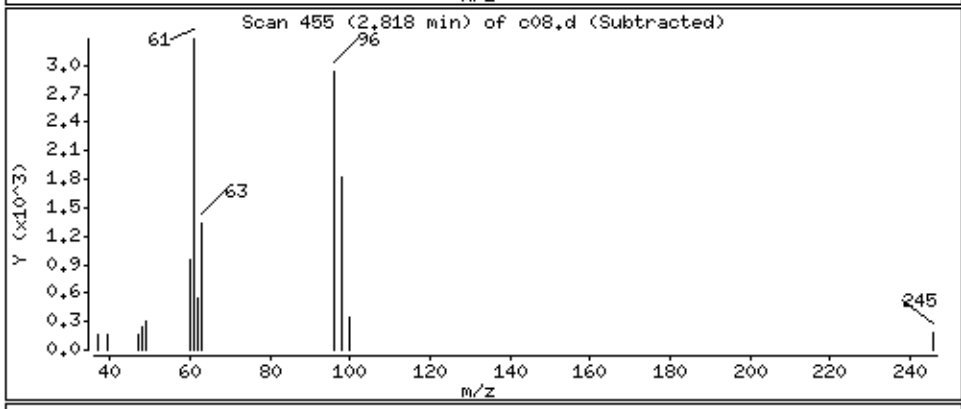
Column diameter: 0.18

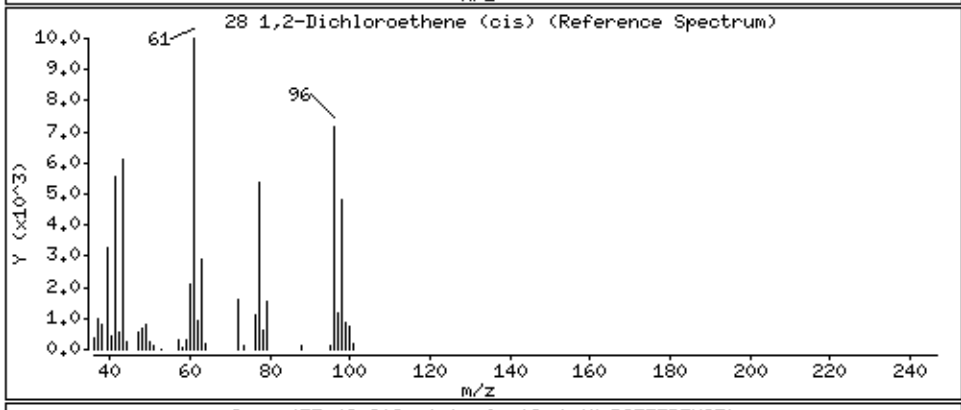
28 1,2-Dichloroethene (cis)

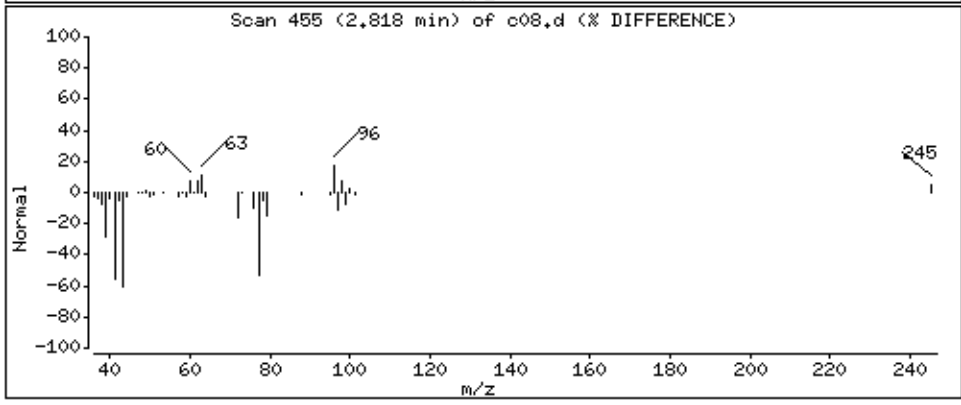
Concentration: 2.12 ppb

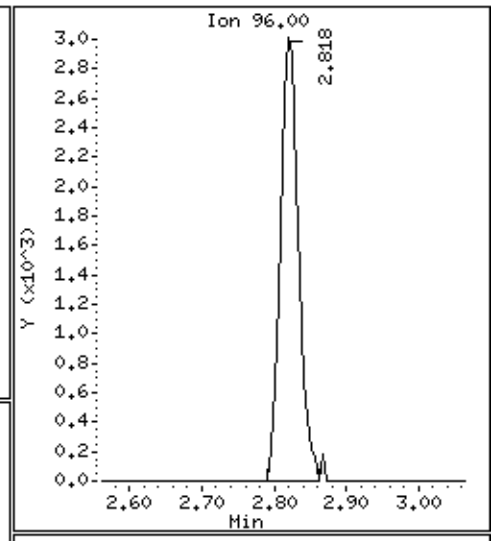
Review Code:

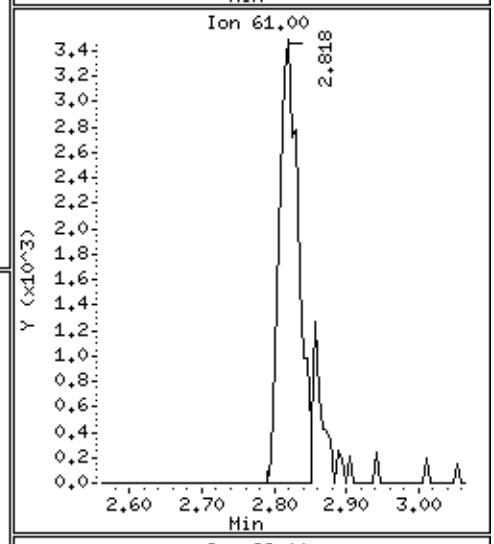


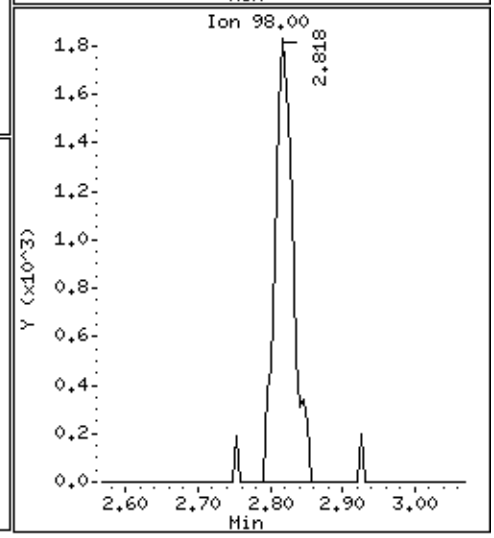












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c08.d

Date : 12-APR-2016 02:42

Client ID: MW-0506-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666008

Purge Volume: 5.0

Operator: jlz

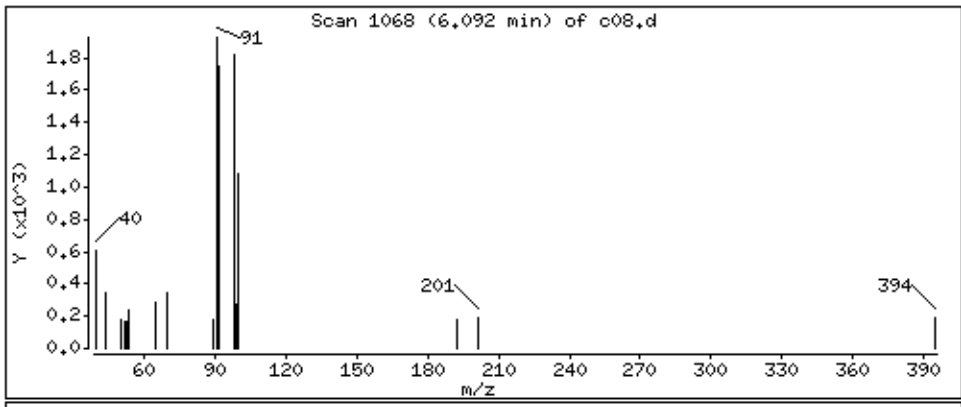
Column phase: DB-624

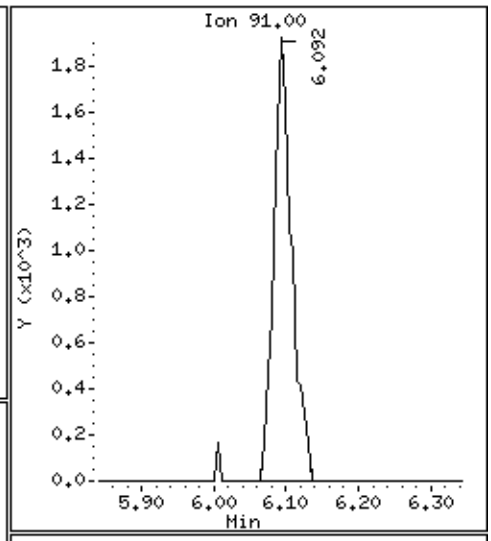
Column diameter: 0.18

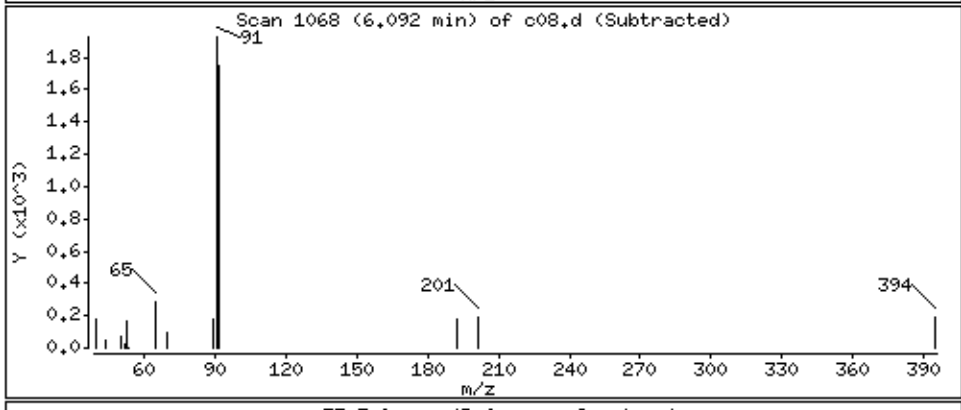
57 Toluene

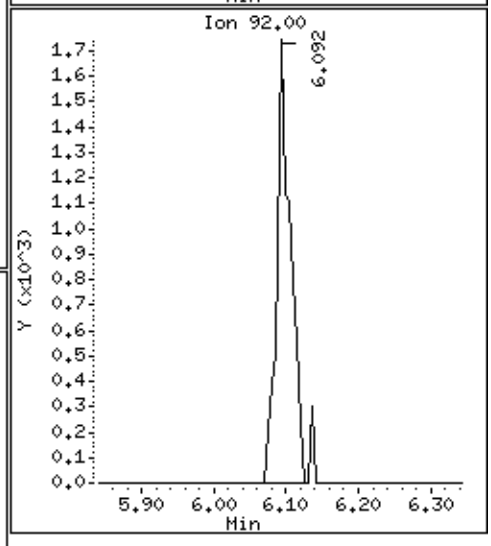
Concentration: 0.354 ppb

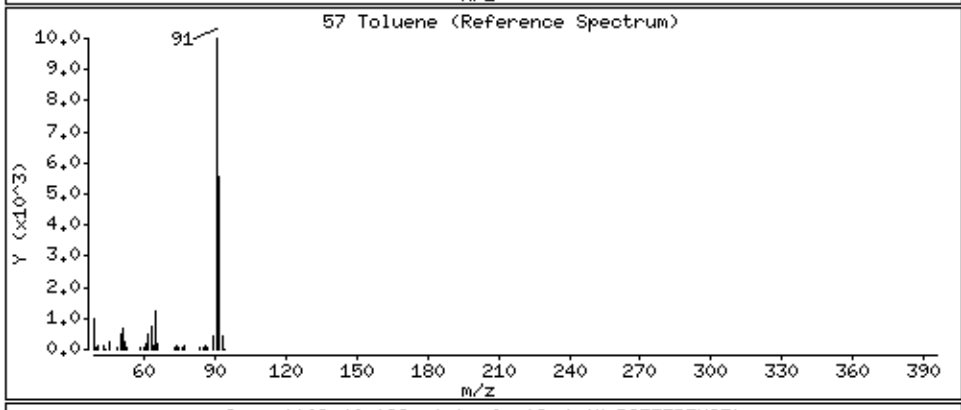
Review Code:

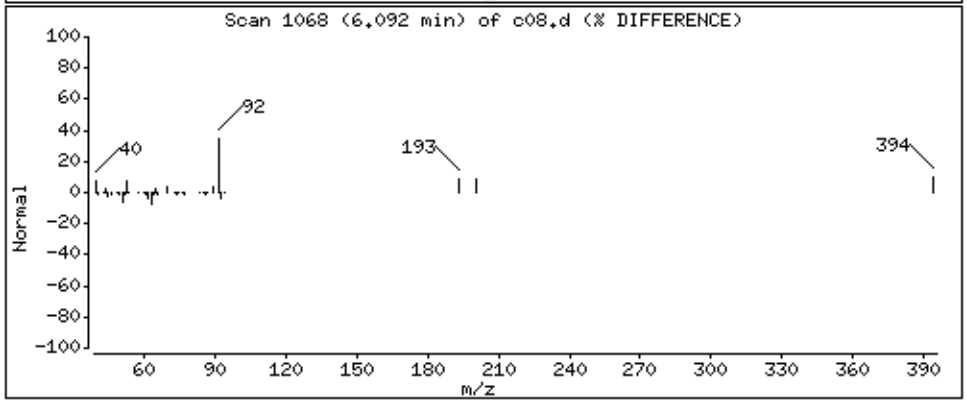












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c08.d
Injection Date: 12-APR-2016 02:42
Instrument: 50mv3a.i
Lab Sample ID: 50141666008
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0507-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:14 Lab Sample ID: 50141666009

Date Analyzed: 04/12/2016 03:14 Lab File ID: A041116.B\C09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	24.4	
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	75.8	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0507-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:14 Lab Sample ID: 50141666009

Date Analyzed: 04/12/2016 03:14 Lab File ID: A041116.B\C09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	14.7	
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	5.1	
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d
Lab Smp Id: 50141666009 Client Smp ID: MW-0507-S1(033016)P
Inj Date : 12-APR-2016 03:14
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666009
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 65
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

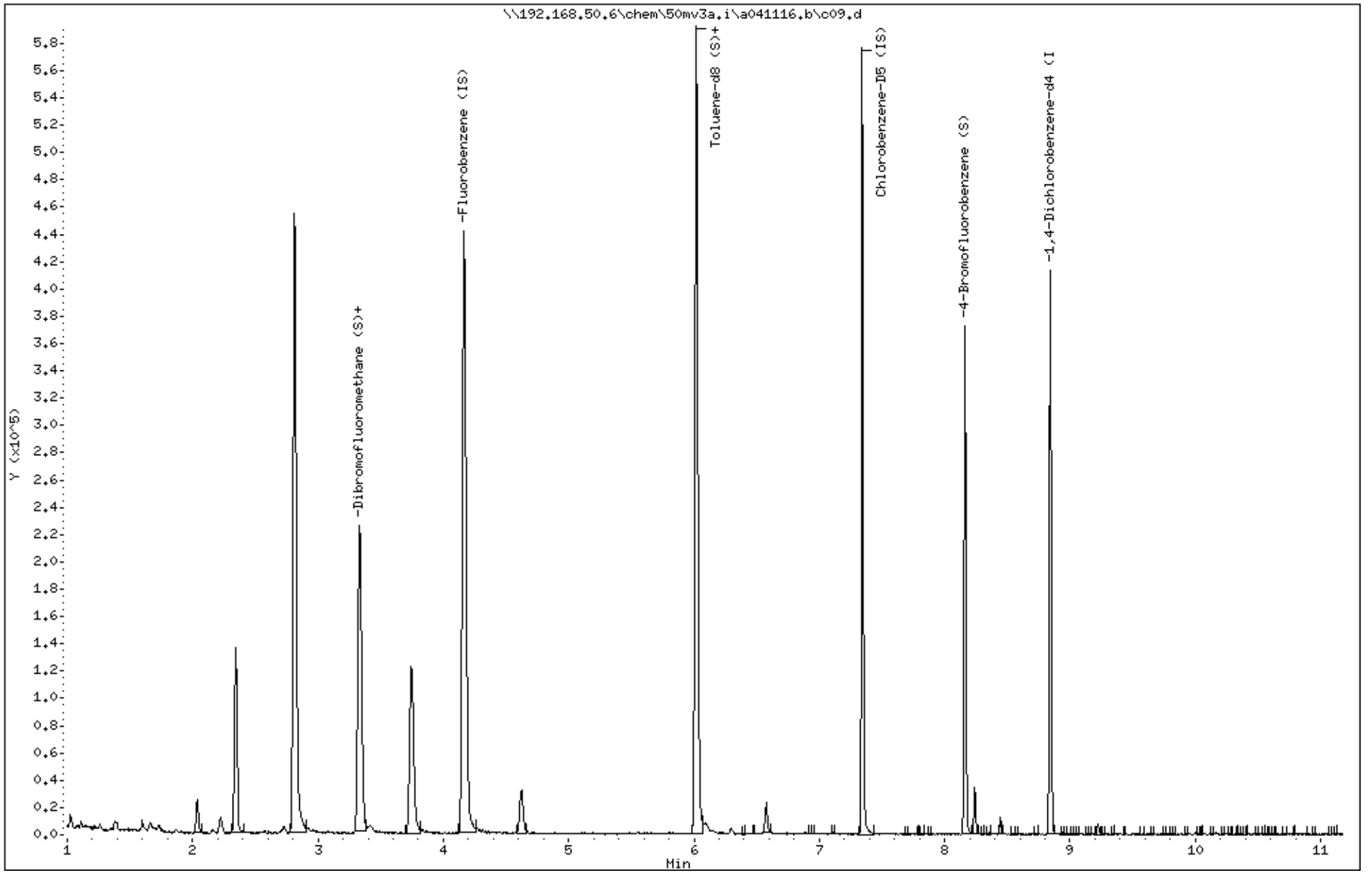
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	22 1,2-Dichloroethene (trans)	96	2.044	2.038	(0.491)	4781	2.04121	2.04	
	25 1,1-Dichloroethane	63	2.343	2.342	(0.563)	102376	24.4172	24.4	
	28 1,2-Dichloroethene (cis)	96	2.813	2.812	(0.676)	176311	75.7915	75.8	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	99581	52.0543	52.0	
	36 1,1,1-Trichloroethane	97	3.331	3.330	(0.800)	47111	14.7378	14.7	
	37 Cyclohexane	56	3.417	3.421	(0.820)	1675	0.38226	0.382	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	424576	50.0000		
	46 Trichloroethene	95	4.613	4.612	(1.108)	10887	5.05904	5.06	
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	340149	50.6778	50.7	
	57 Toluene	91	6.098	6.091	(0.831)	2969	0.34505	0.345	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	195373	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	69425	43.0070	43.0	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	63678	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d
Date : 12-APR-2016 03:14
Client ID: MW-0507-S1(033016)P
Sample Info: 50141666009
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

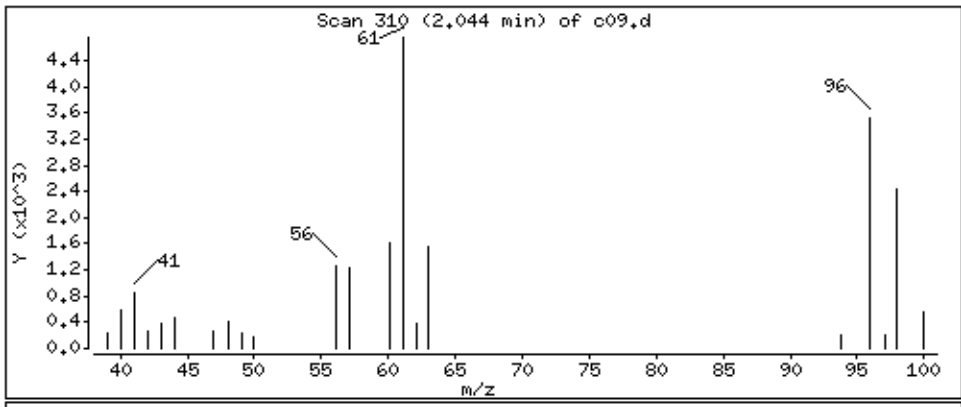
Column phase: DB-624

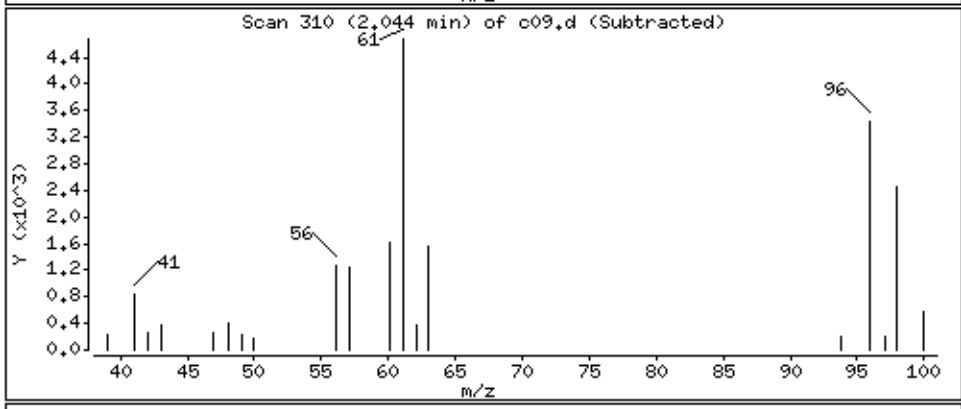
Column diameter: 0.18

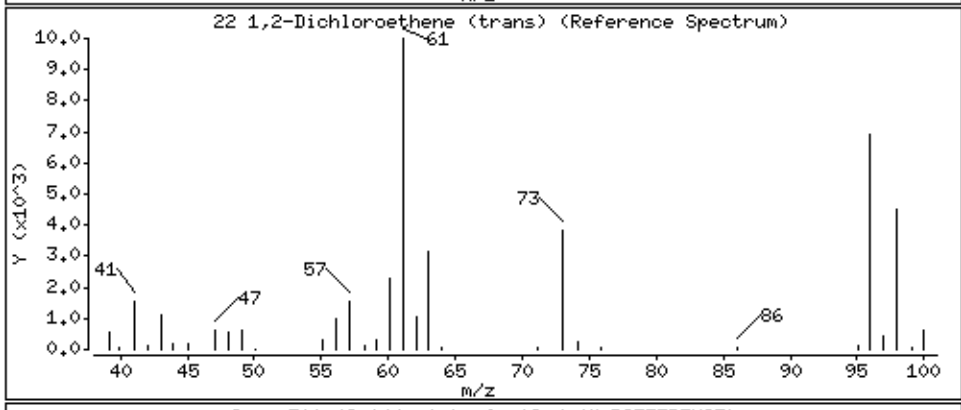
22 1,2-Dichloroethene (trans)

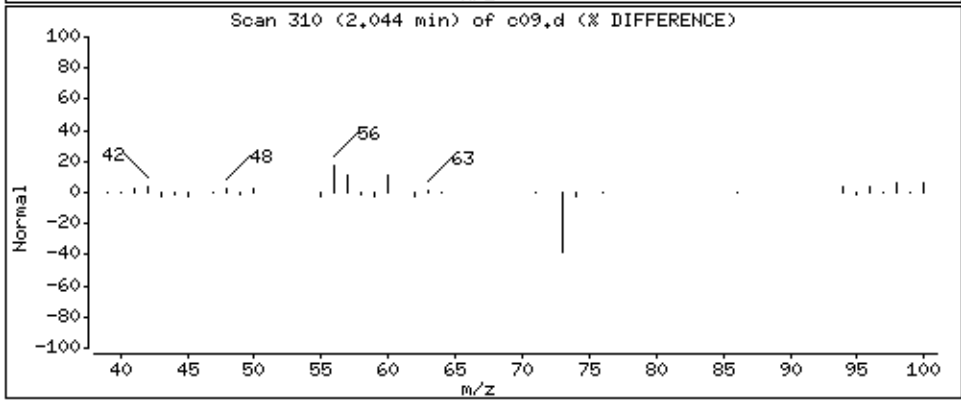
Concentration: 2.04 ppb

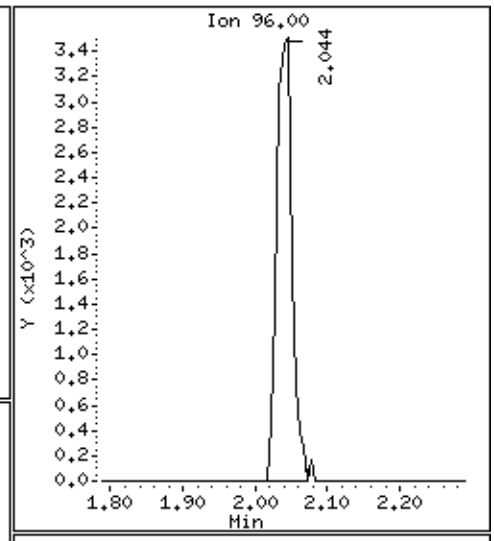
Review Code:

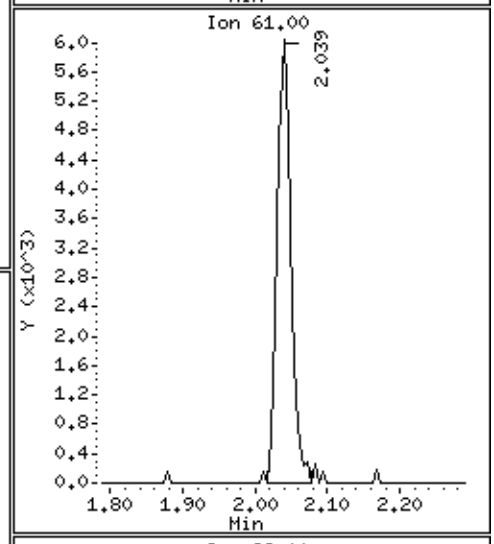


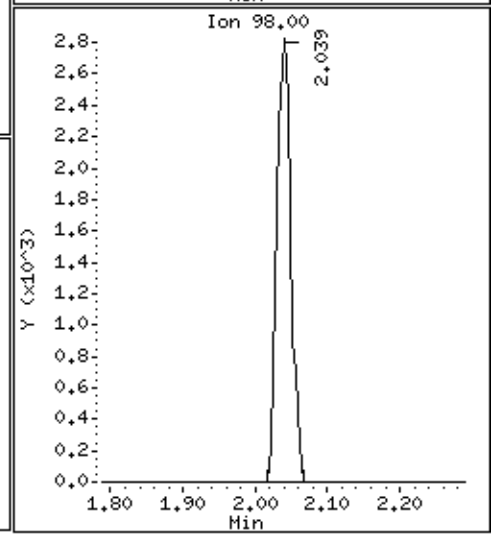












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

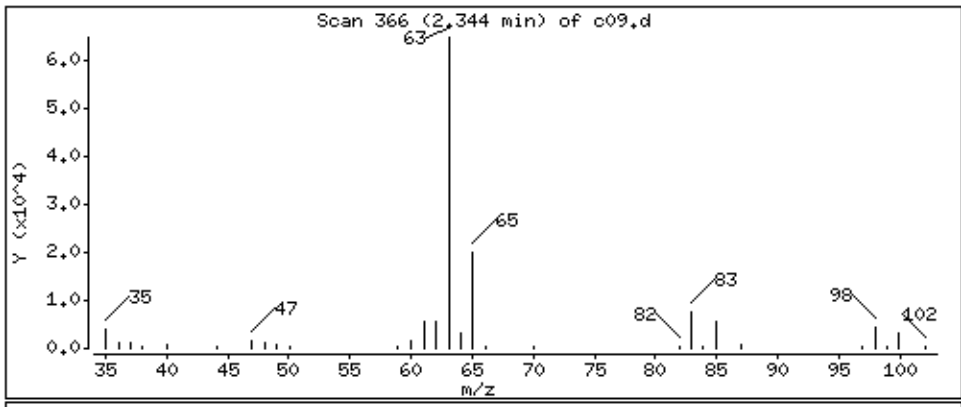
Column phase: DB-624

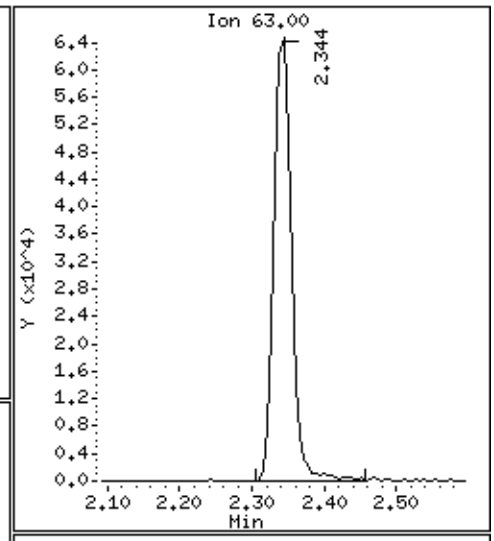
Column diameter: 0.18

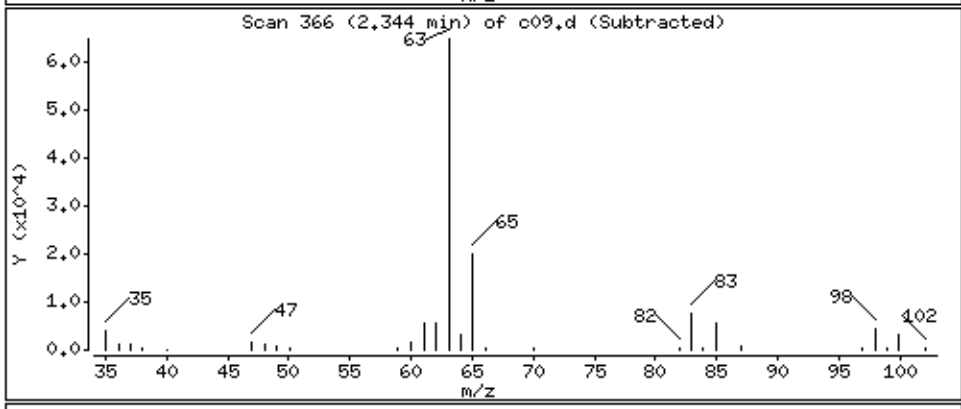
25 1,1-Dichloroethane

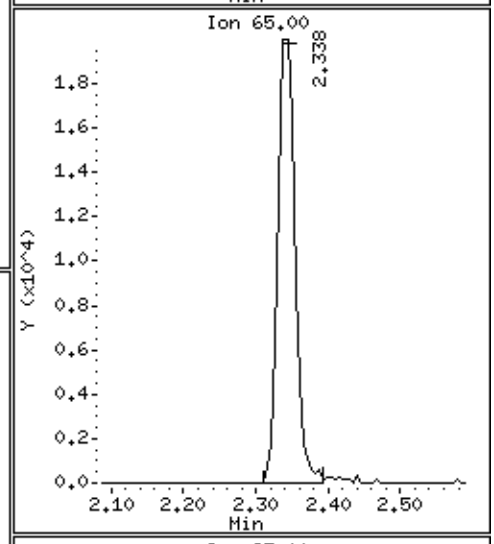
Concentration: 24.4 ppb

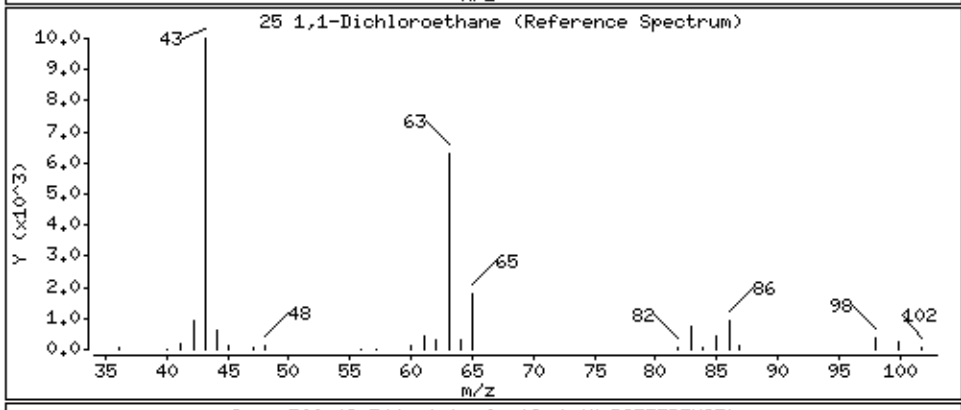
Review Code:

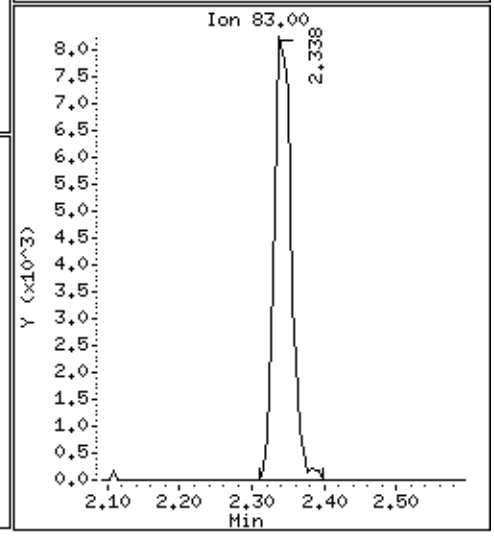


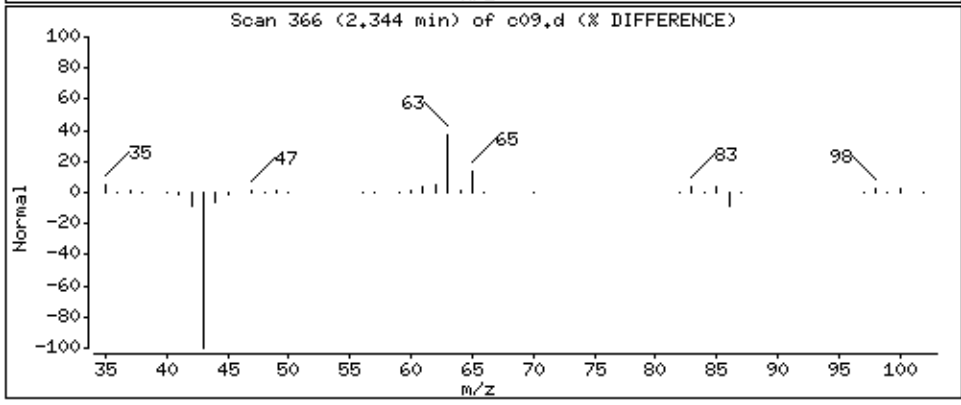












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

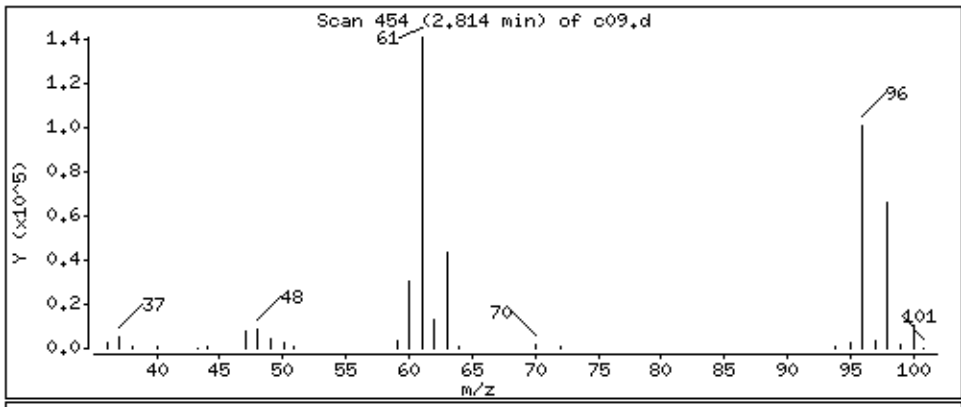
Column phase: DB-624

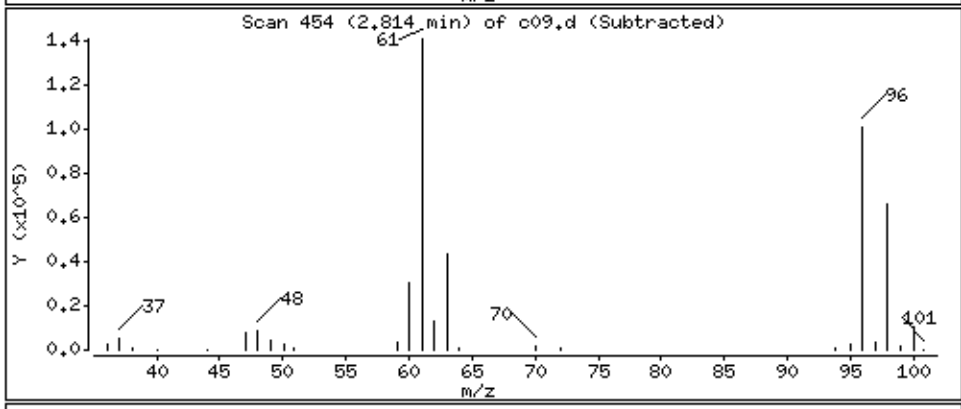
Column diameter: 0.18

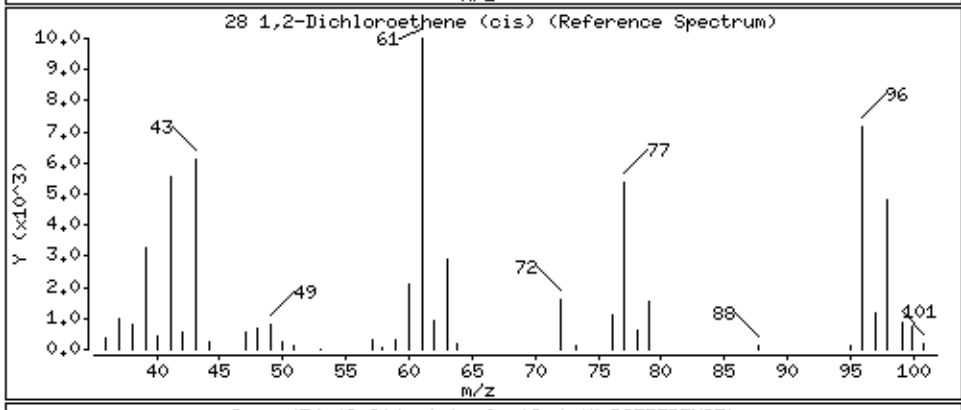
28 1,2-Dichloroethene (cis)

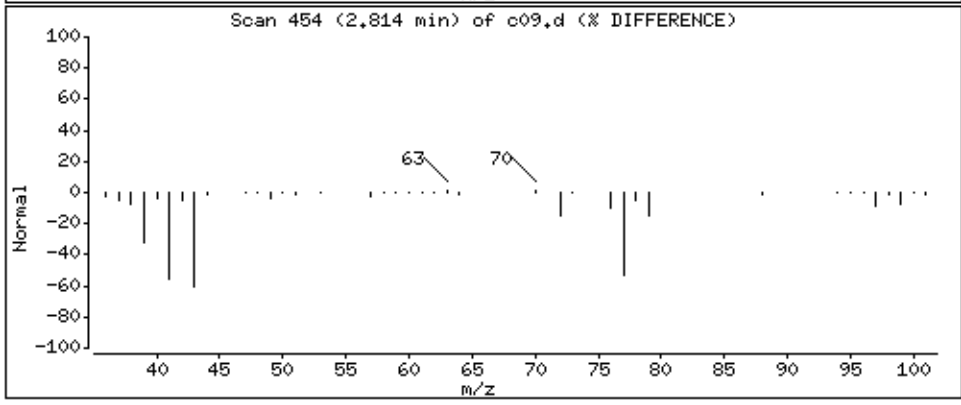
Concentration: 75.8 ppb

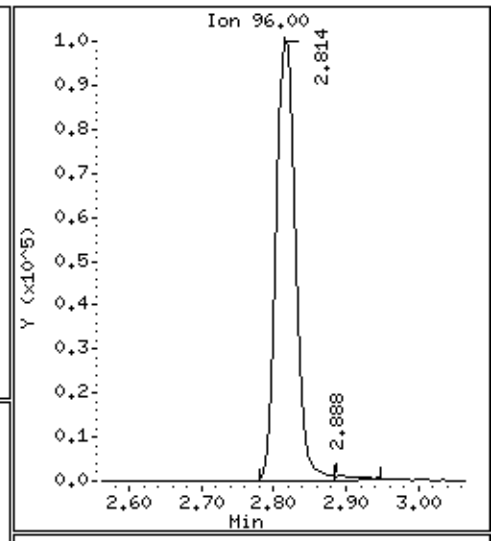
Review Code:

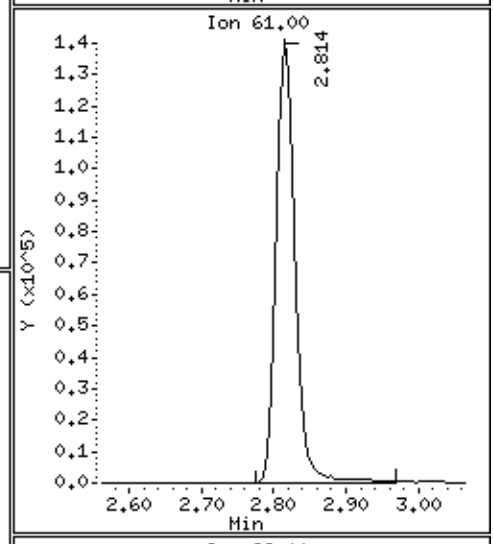


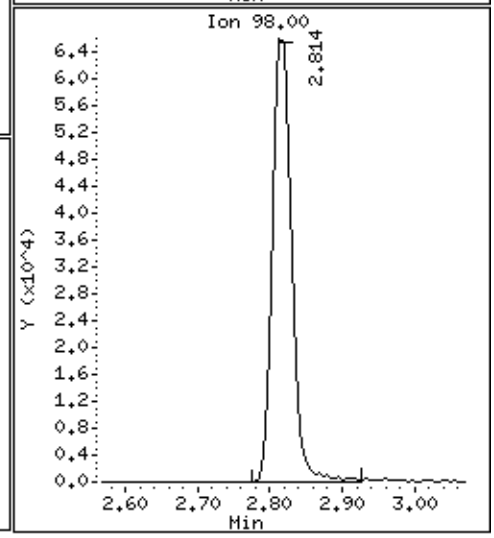












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

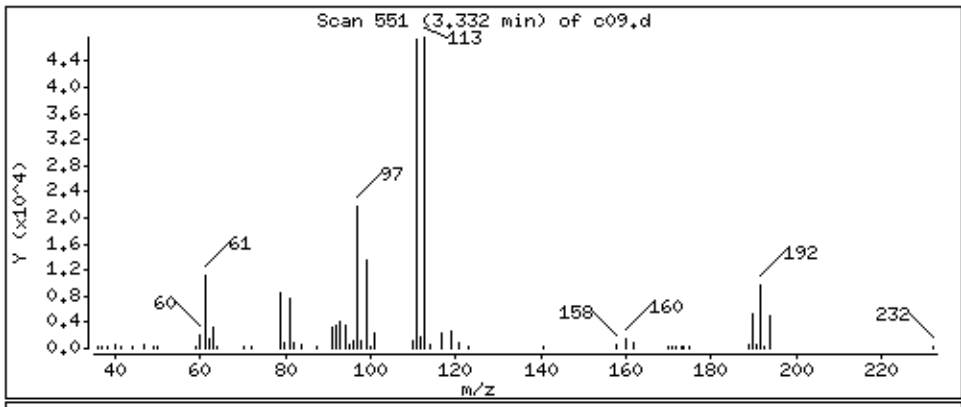
Column phase: DB-624

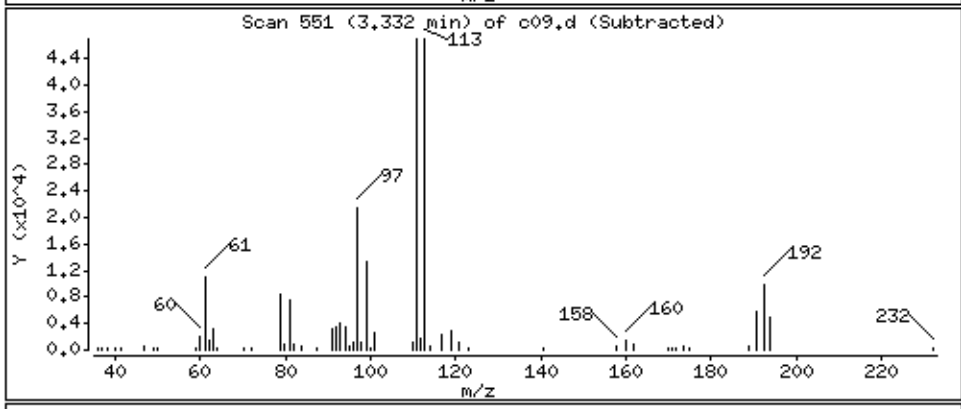
Column diameter: 0.18

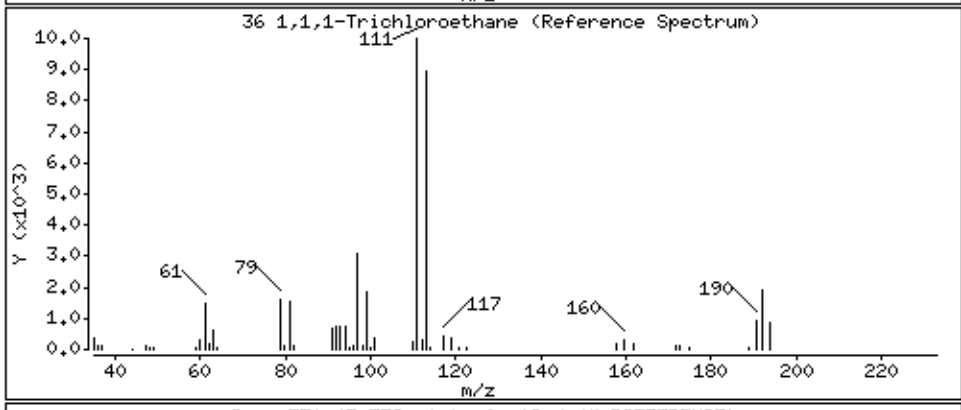
36 1,1,1-Trichloroethane

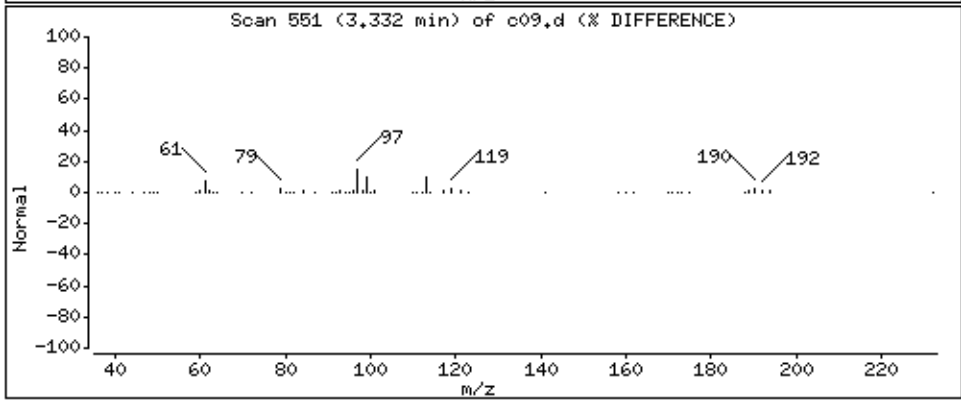
Concentration: 14.7 ppb

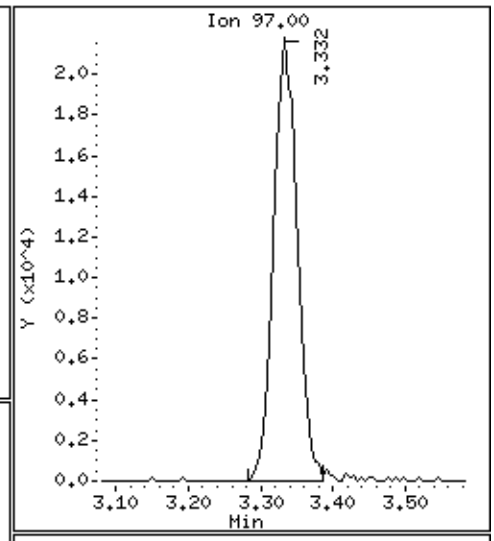
Review Code:

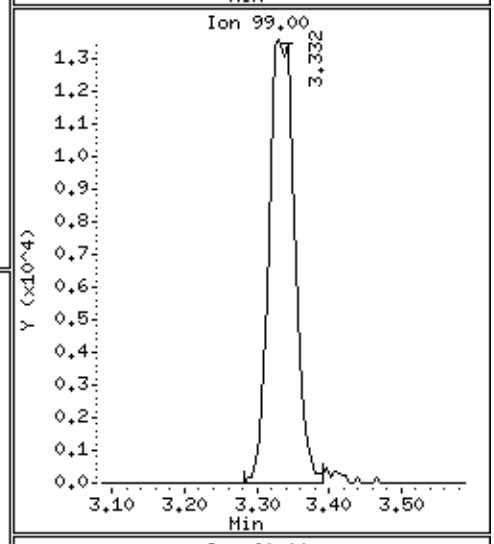


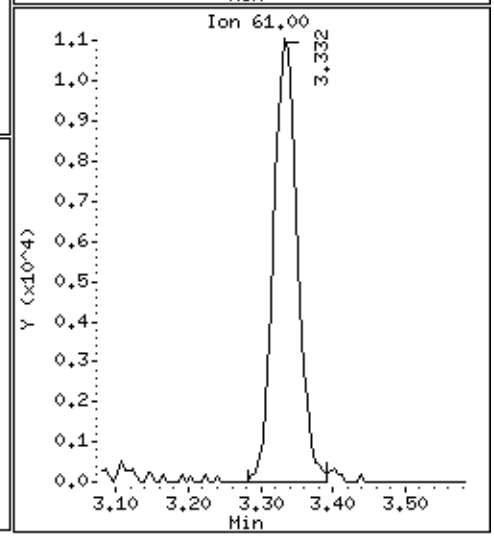












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

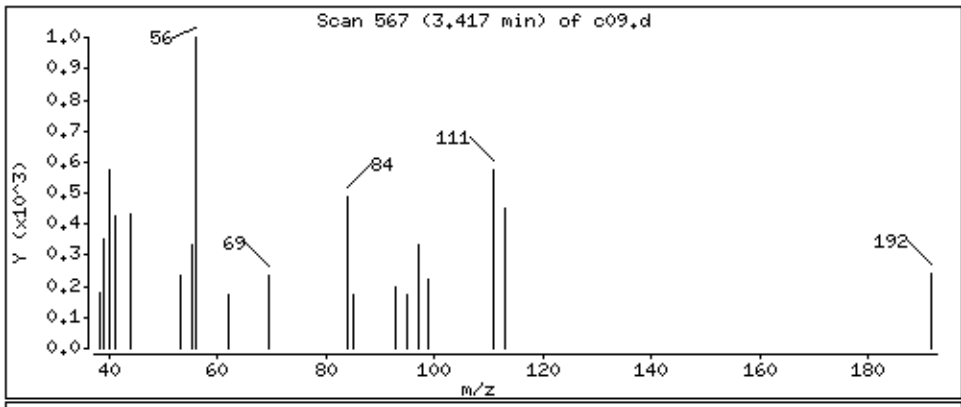
Column phase: DB-624

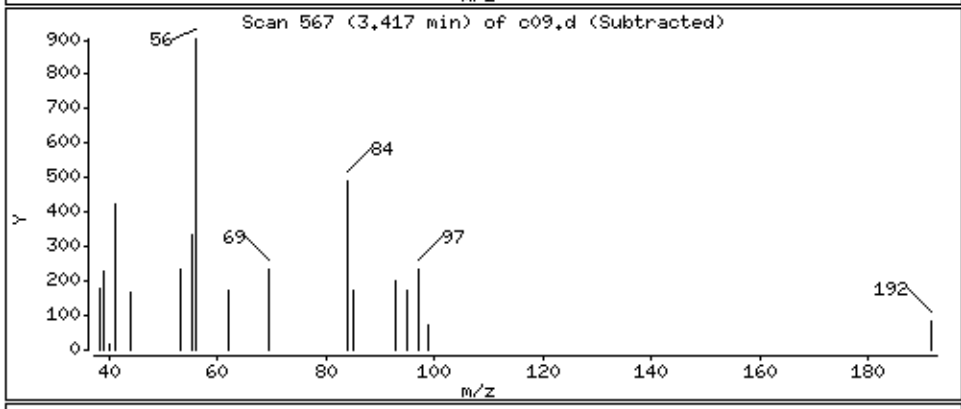
Column diameter: 0.18

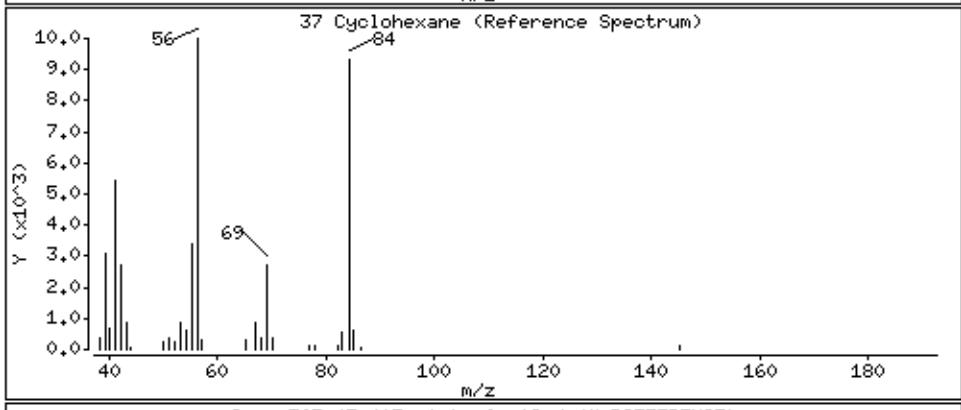
37 Cyclohexane

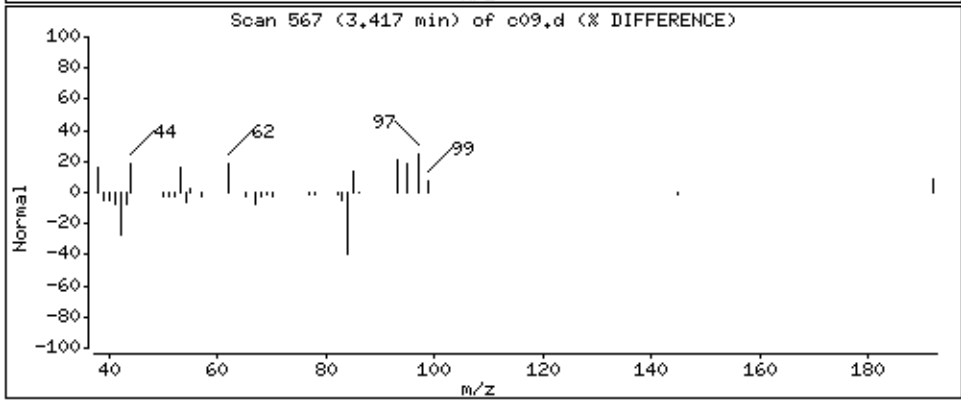
Concentration: 0.382 ppb

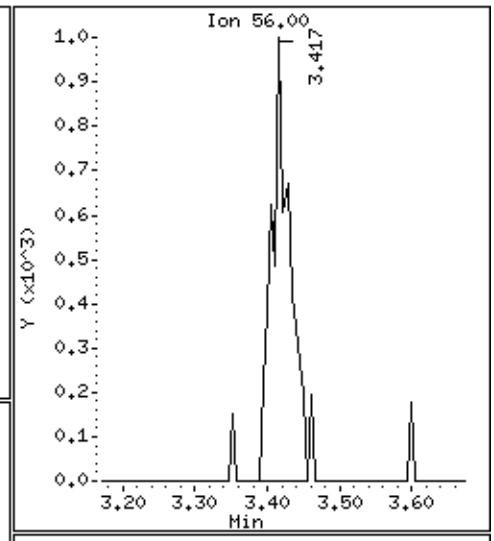
Review Code:

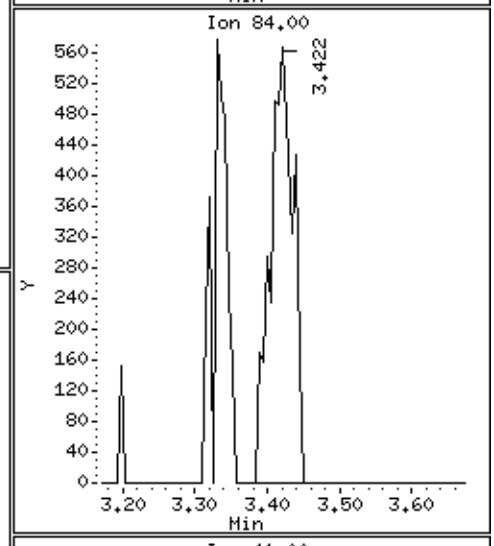


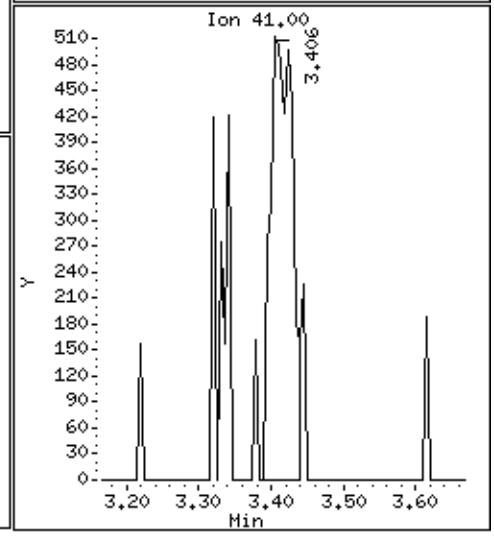












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

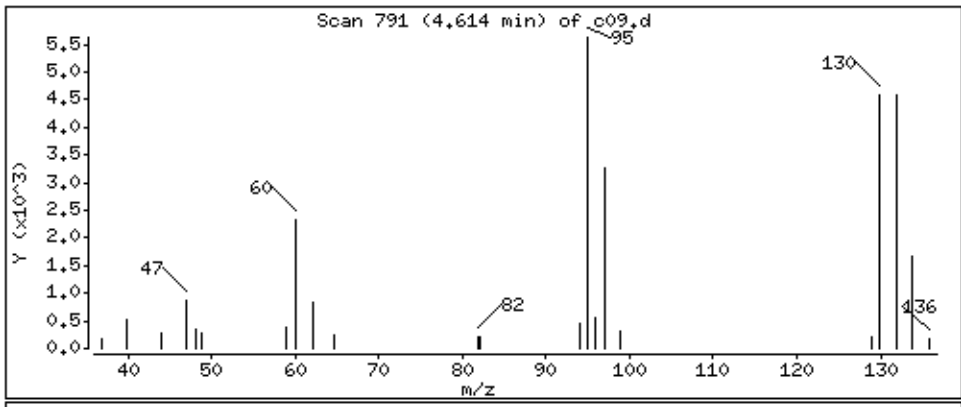
Column phase: DB-624

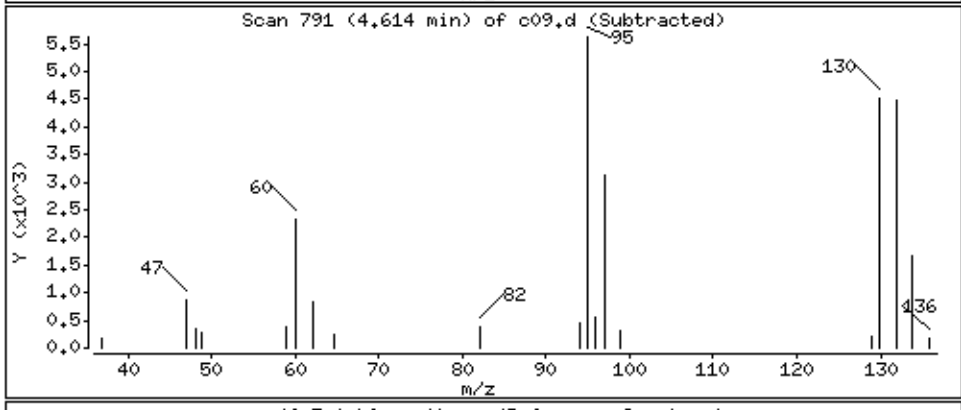
Column diameter: 0.18

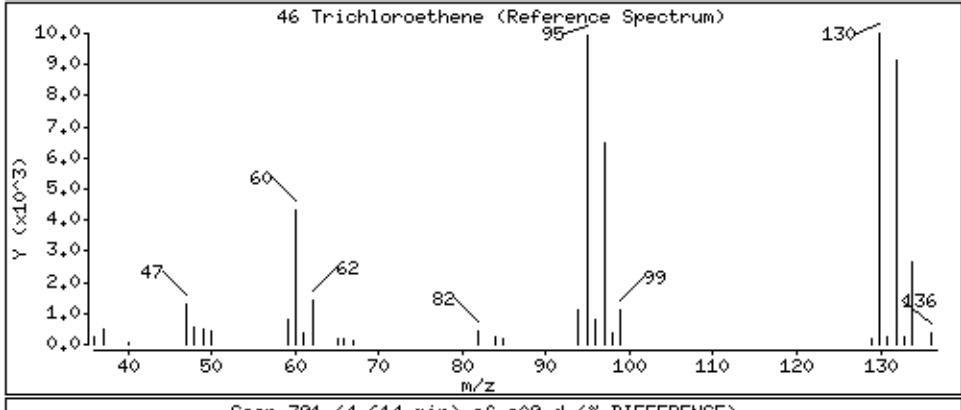
46 Trichloroethene

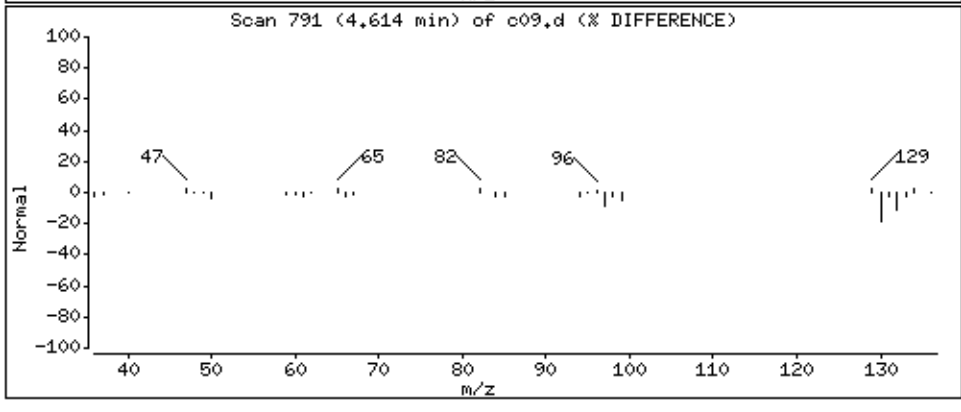
Concentration: 5.06 ppb

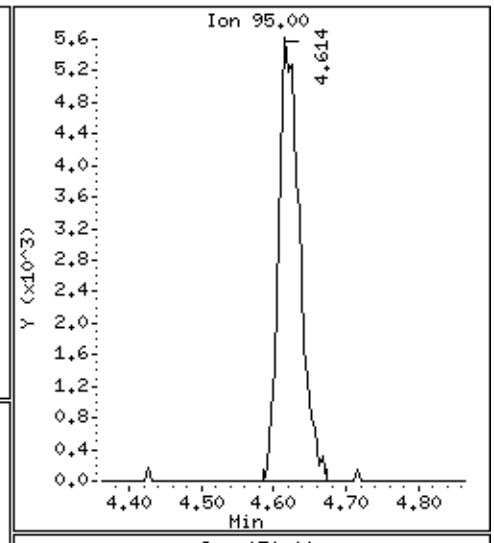
Review Code:

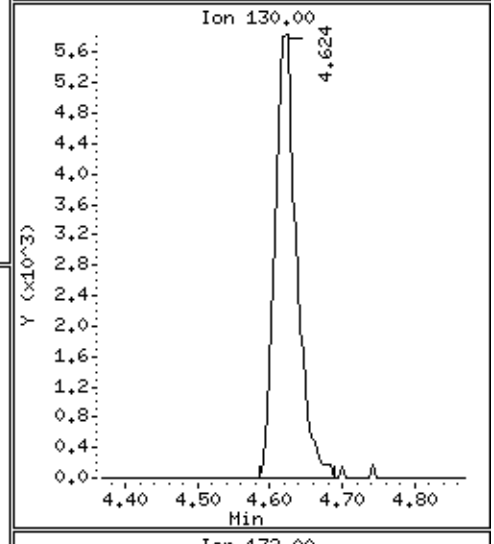


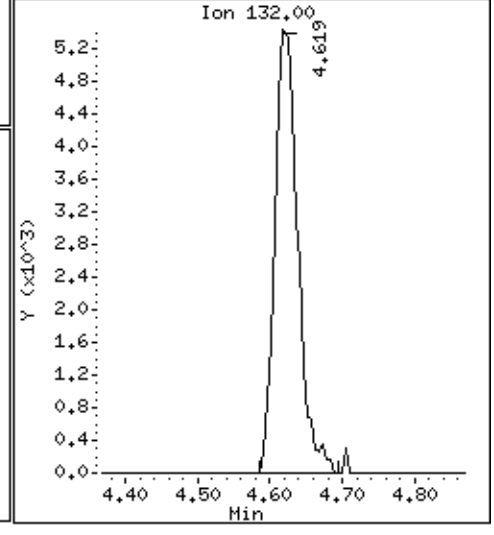












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c09.d

Date : 12-APR-2016 03:14

Client ID: MW-0507-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666009

Purge Volume: 5.0

Operator: jlz

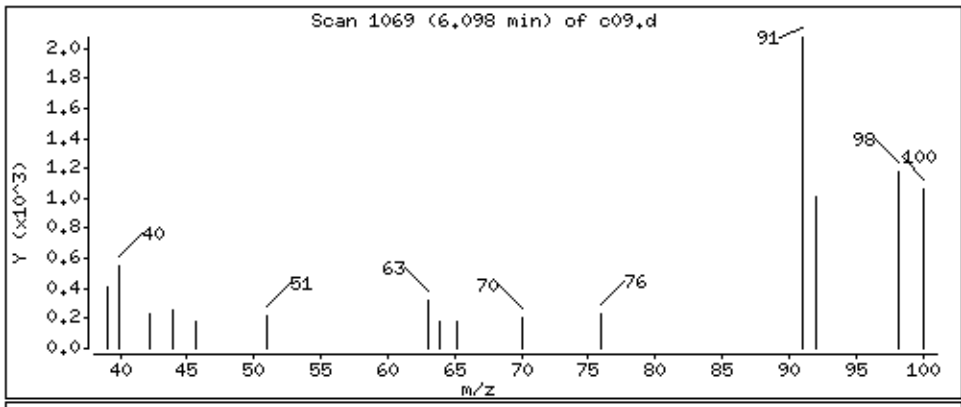
Column phase: DB-624

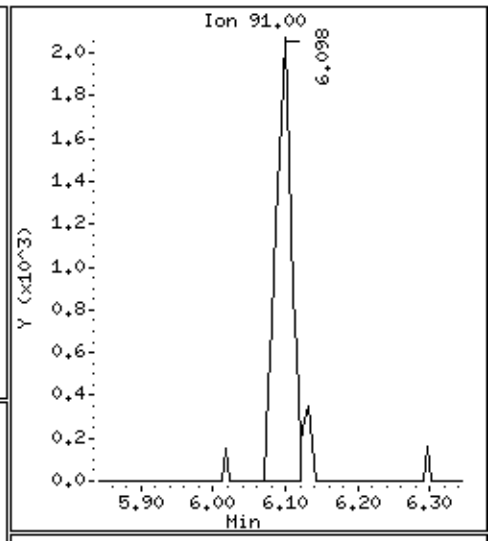
Column diameter: 0.18

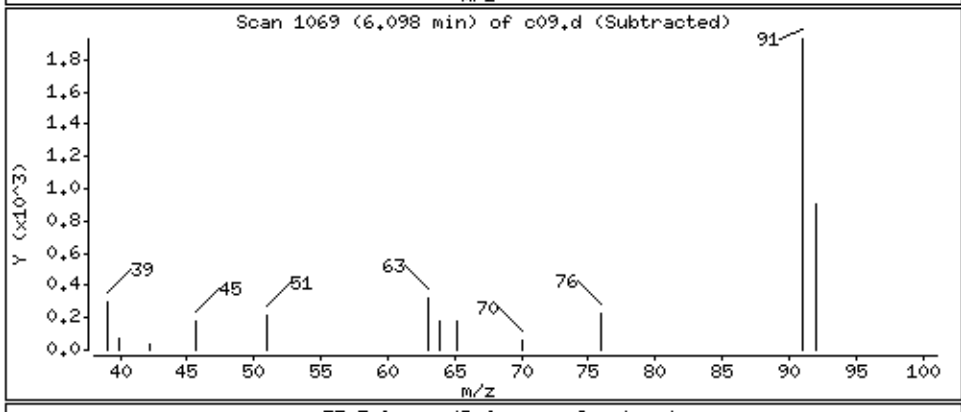
57 Toluene

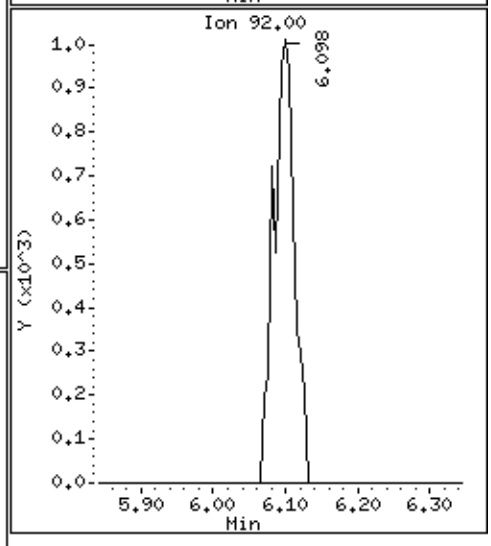
Concentration: 0.345 ppb

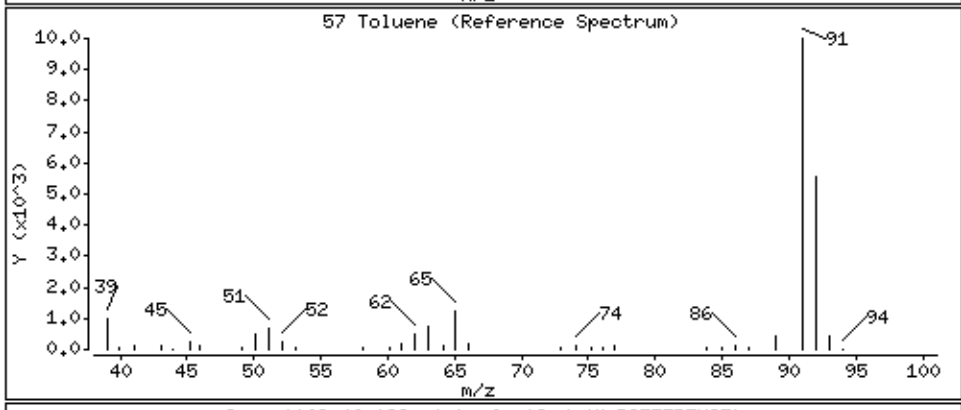
Review Code:

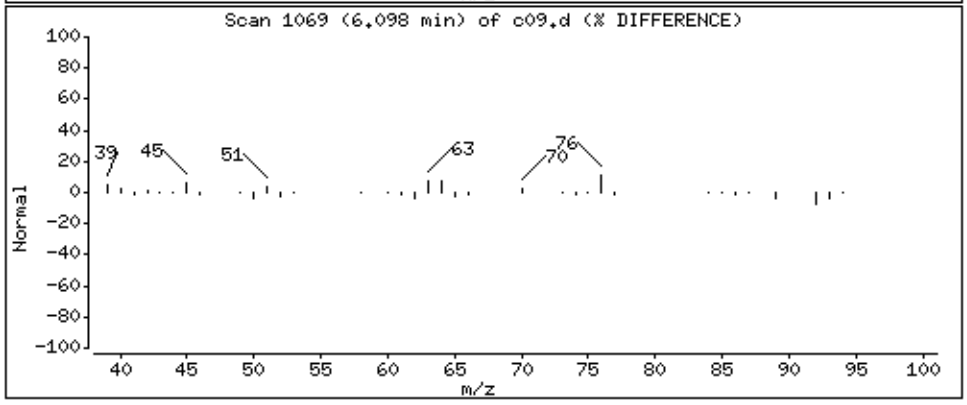












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c09.d
Injection Date: 12-APR-2016 03:14
Instrument: 50mv3a.i
Lab Sample ID: 50141666009
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0509-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:46 Lab Sample ID: 50141666010

Date Analyzed: 04/12/2016 03:46 Lab File ID: A041116.B\C10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0509-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:46 Lab Sample ID: 50141666010

Date Analyzed: 04/12/2016 03:46 Lab File ID: A041116.B\C10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c10.d
Lab Smp Id: 50141666010 Client Smp ID: MW-0509-S1(033016)P
Inj Date : 12-APR-2016 03:46
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666010
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

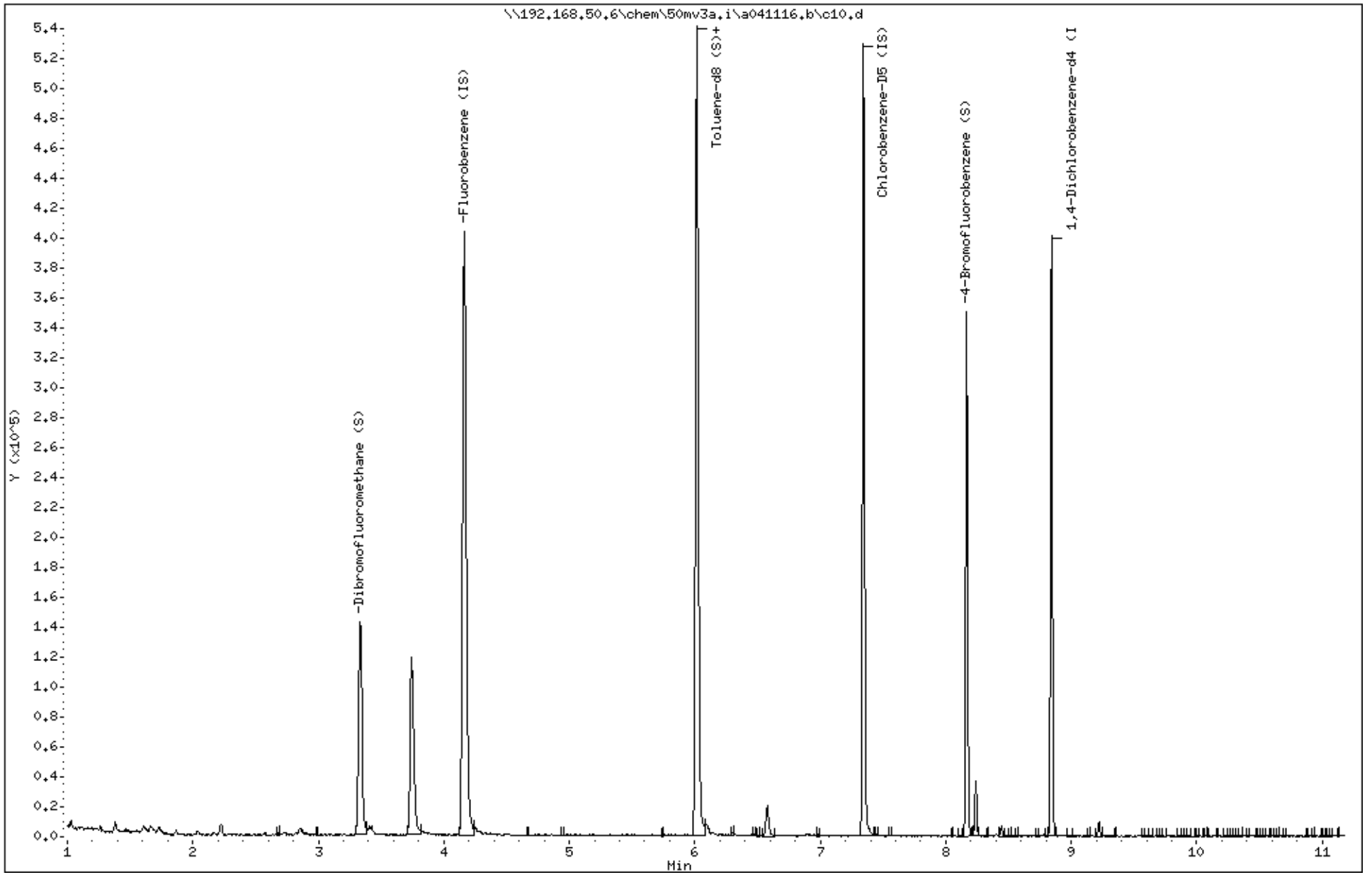
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.610	1.605	(0.387)	6834	13.8045	13.8	
$ 35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	92692	52.5471	52.5	
* 45 Fluorobenzene (IS)	96	4.163	4.163	(1.000)	391497	50.0000		
$ 56 Toluene-d8 (S)	98	6.016	6.017	(0.820)	308200	48.3920	48.4	
57 Toluene	91	6.102	6.091	(0.831)	2644	0.32383	0.324	
* 66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	185384	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	64749	42.2716	42.3	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	61734	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c10.d
Date : 12-APR-2016 03:46
Client ID: MW-0509-S1(033016)P
Sample Info: 50141666010
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c10.d

Date : 12-APR-2016 03:46

Client ID: MW-0509-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666010

Purge Volume: 5.0

Operator: jlz

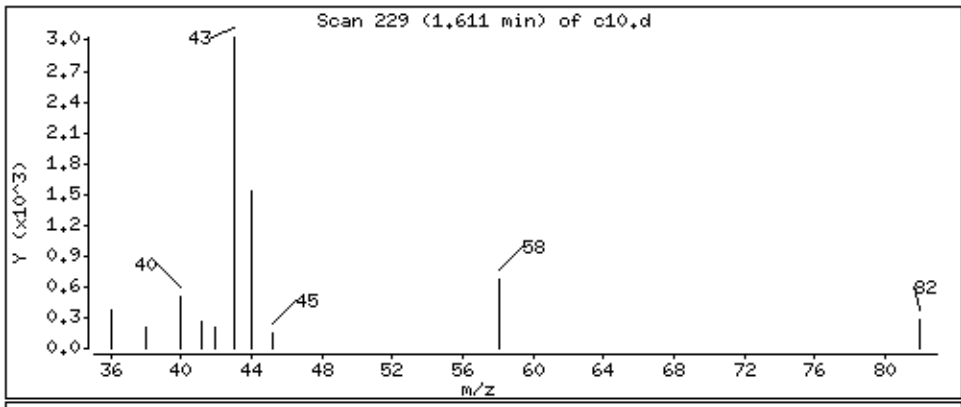
Column phase: DB-624

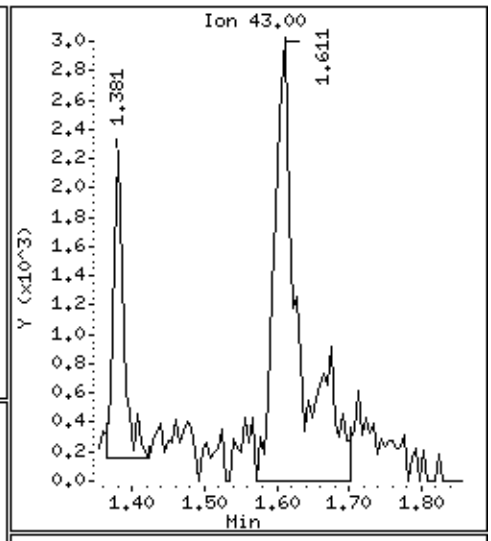
Column diameter: 0.18

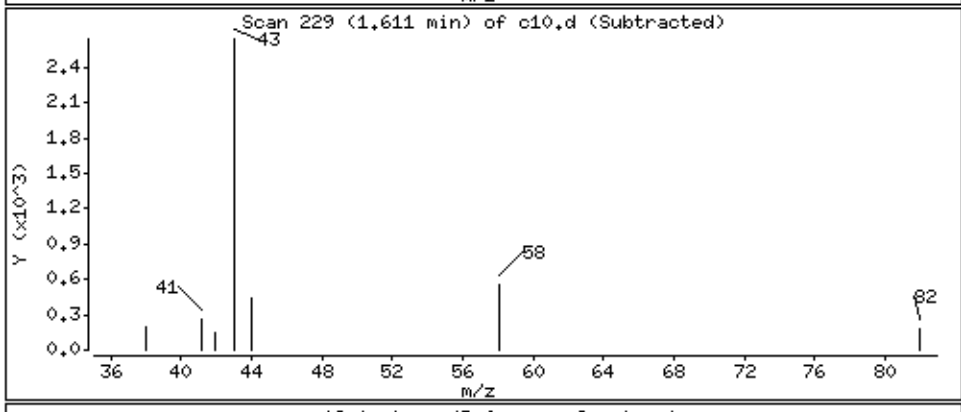
12 Acetone

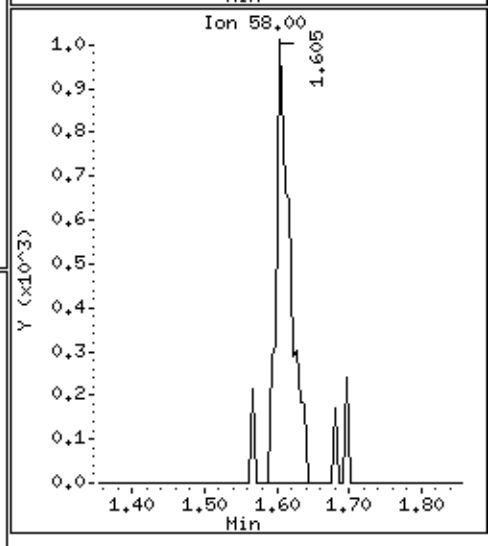
Concentration: 13.8 ppb

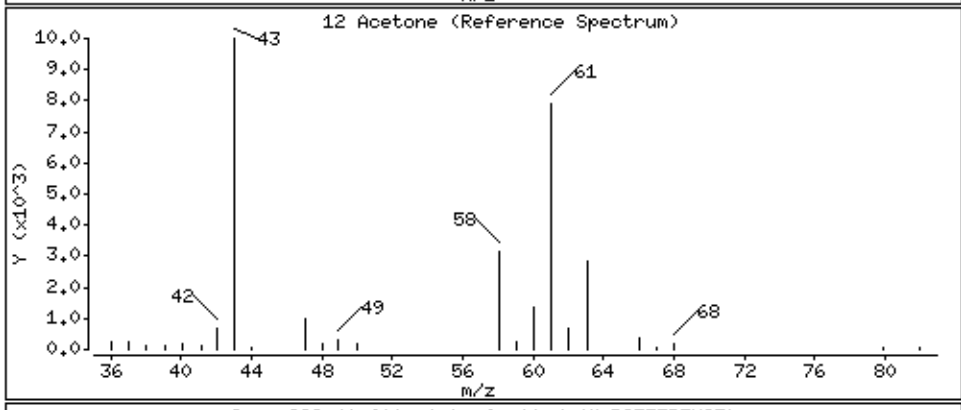
Review Code:

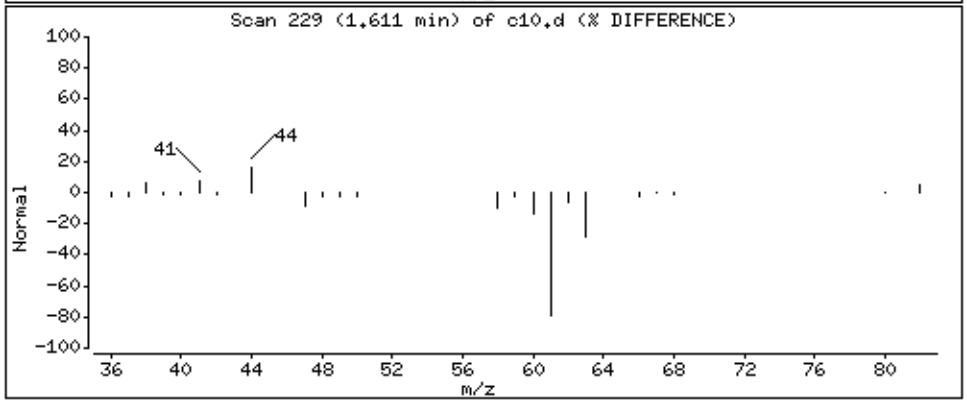












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c10.d

Date : 12-APR-2016 03:46

Client ID: MW-0509-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666010

Purge Volume: 5.0

Operator: jlz

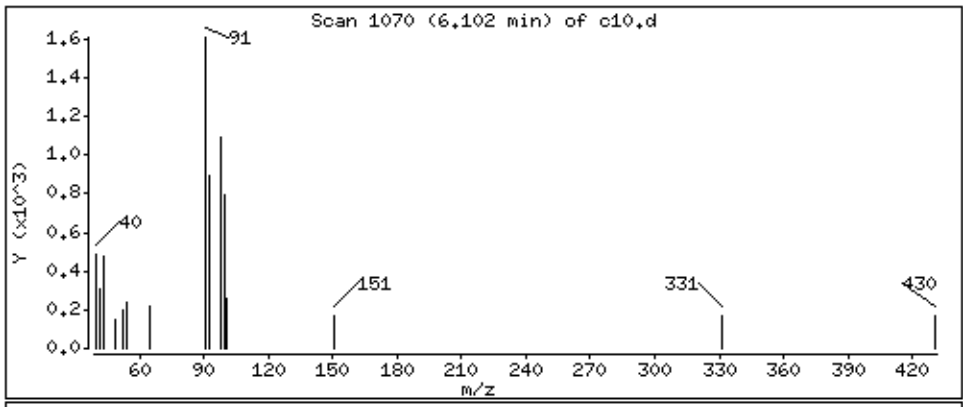
Column phase: DB-624

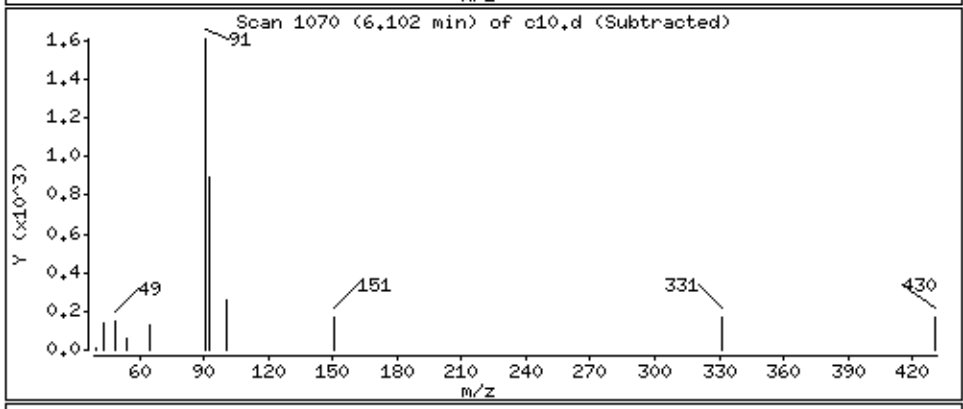
Column diameter: 0.18

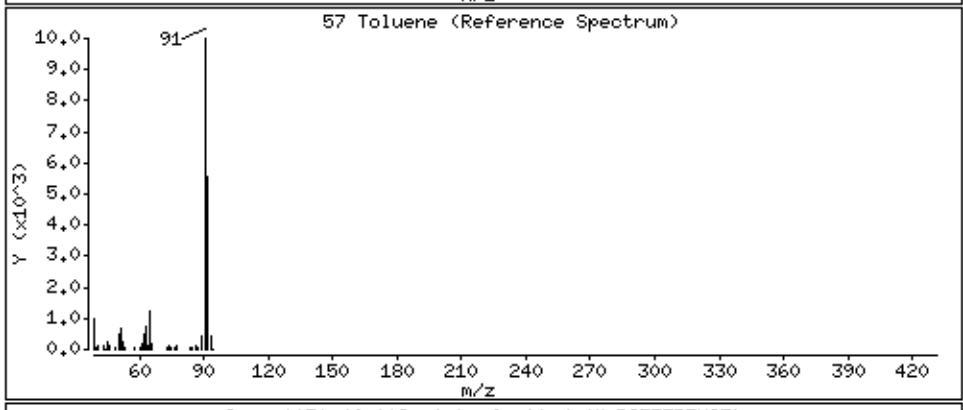
57 Toluene

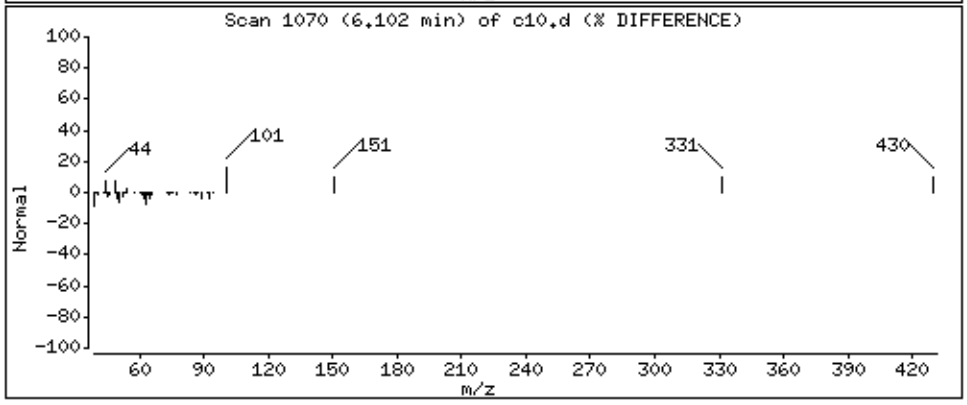
Concentration: 0.324 ppb

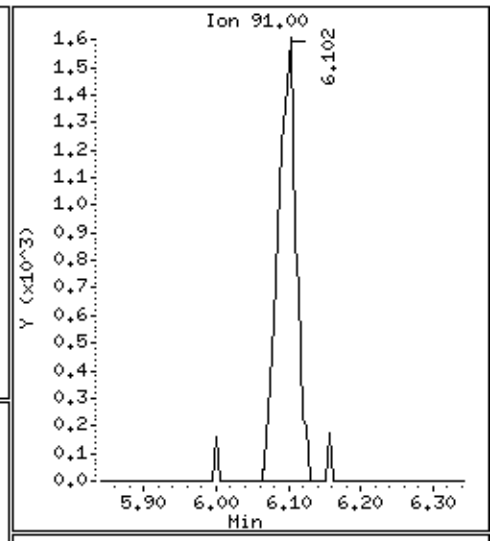
Review Code:

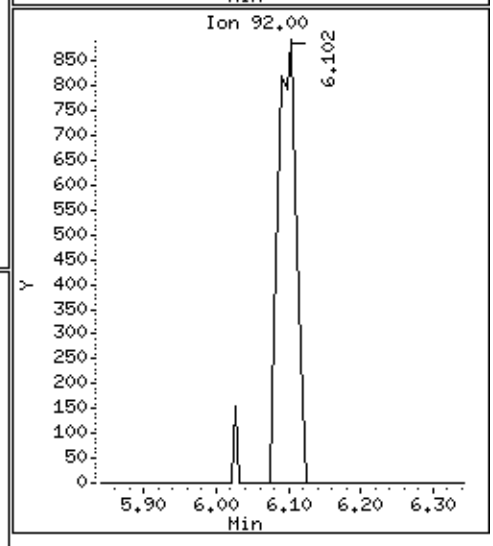












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c10.d
Injection Date: 12-APR-2016 03:46
Instrument: 50mv3a.i
Lab Sample ID: 50141666010
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0516-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:18 Lab Sample ID: 50141666011

Date Analyzed: 04/12/2016 04:18 Lab File ID: A041116.B\C11.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0516-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:18 Lab Sample ID: 50141666011

Date Analyzed: 04/12/2016 04:18 Lab File ID: A041116.B\C11.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c11.d
Lab Smp Id: 50141666011 Client Smp ID: MW-0516-S1(033016)P
Inj Date : 12-APR-2016 04:18
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666011
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

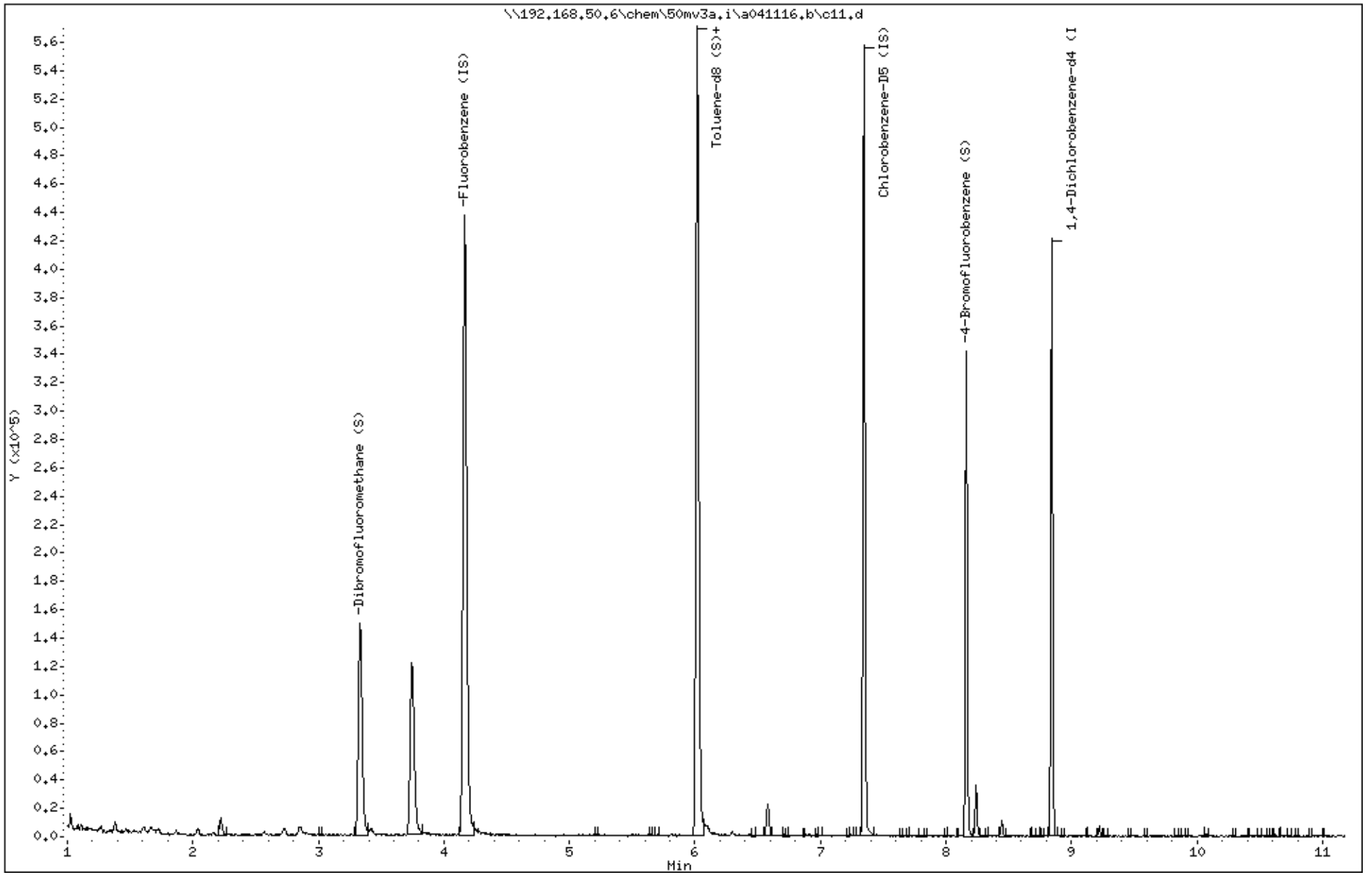
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.602	1.605	(0.385)	3480	6.47033	6.47	
$ 35 Dibromofluoromethane (S)	113	3.332	3.330	(0.800)	99654	51.9999	52.0	
* 45 Fluorobenzene (IS)	96	4.166	4.163	(1.000)	425331	50.0000		
$ 56 Toluene-d8 (S)	98	6.019	6.017	(0.820)	327592	49.4099	49.4	
57 Toluene	91	6.094	6.091	(0.830)	3119	0.36696	0.367	
* 66 Chlorobenzene-D5 (IS)	117	7.344	7.341	(1.000)	192989	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.111)	67678	42.4427	42.4	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	63131	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c11.d
Date : 12-APR-2016 04:18
Client ID: MW-0516-S1(033016)P
Sample Info: 50141666011
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c11.d

Date : 12-APR-2016 04:18

Client ID: MW-0516-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666011

Purge Volume: 5.0

Operator: jlz

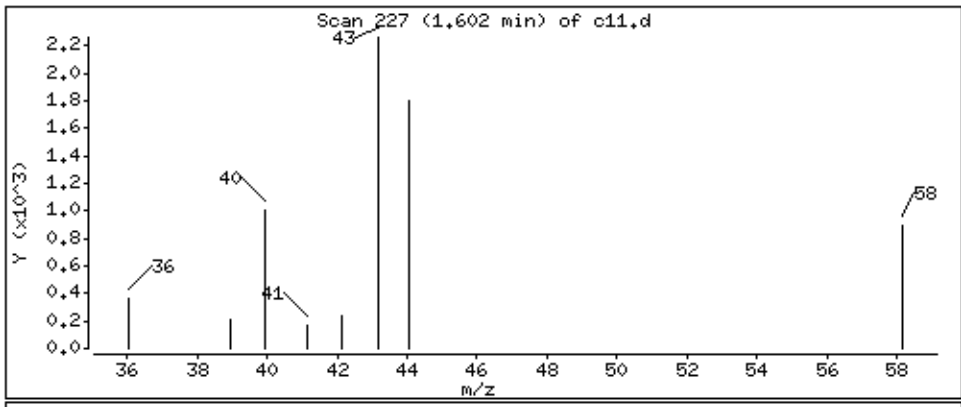
Column phase: DB-624

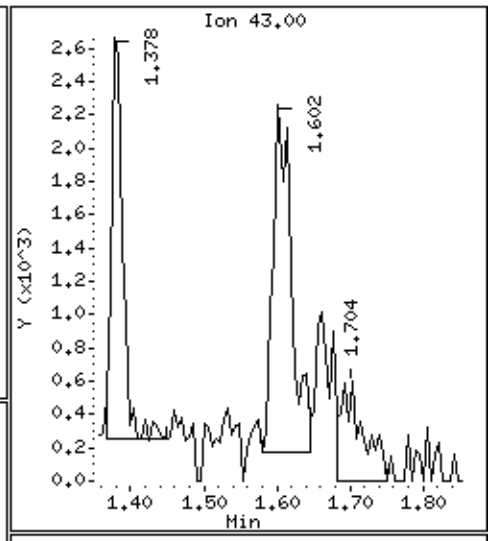
Column diameter: 0.18

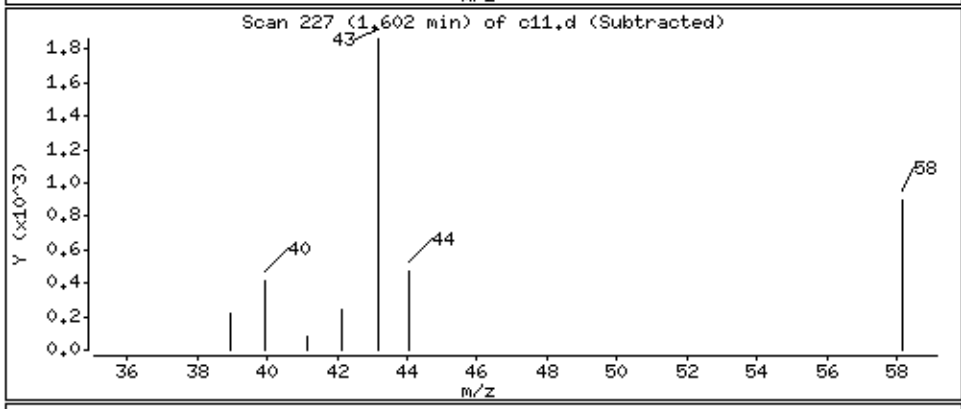
12 Acetone

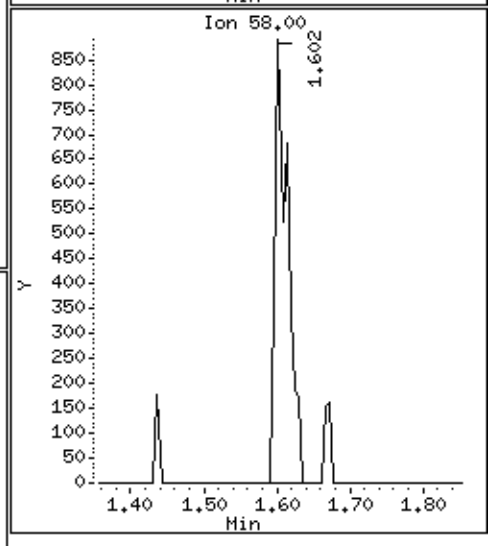
Concentration: 6.47 ppb

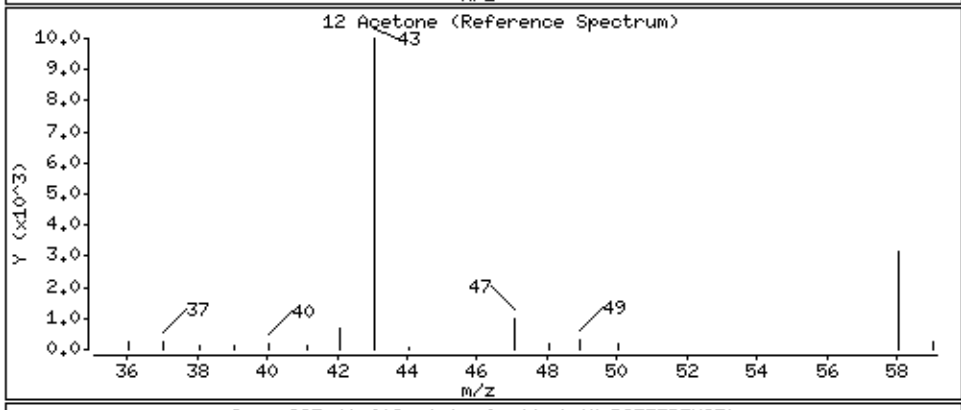
Review Code:

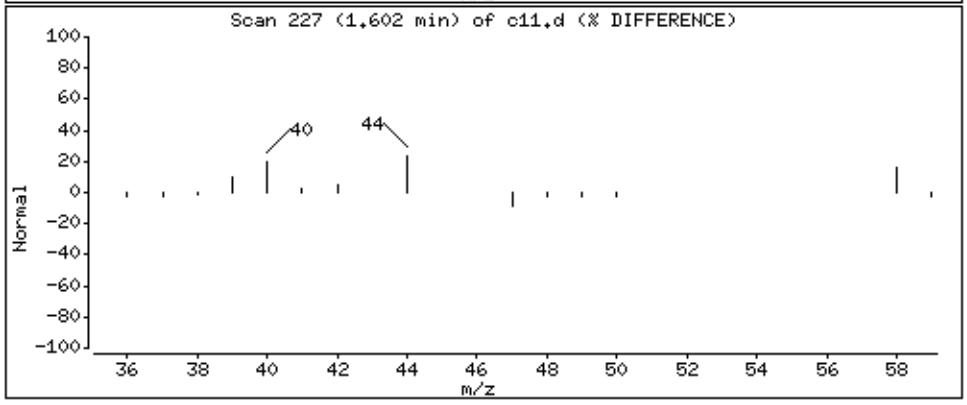












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c11.d

Date : 12-APR-2016 04:18

Client ID: MW-0516-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666011

Purge Volume: 5.0

Operator: jlz

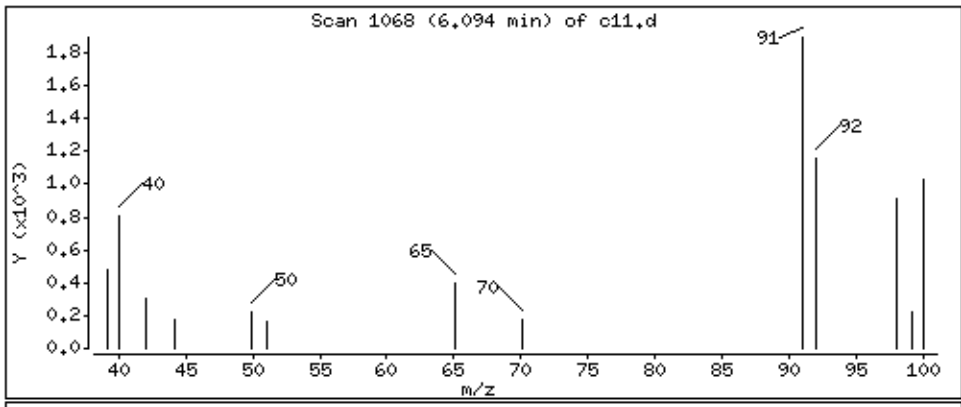
Column phase: DB-624

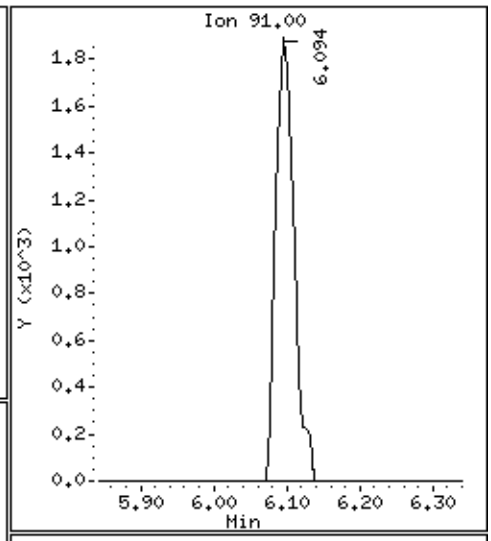
Column diameter: 0.18

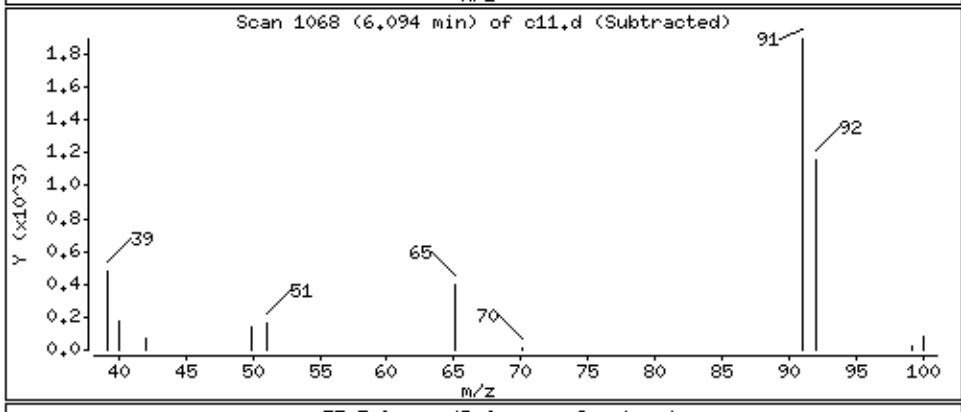
57 Toluene

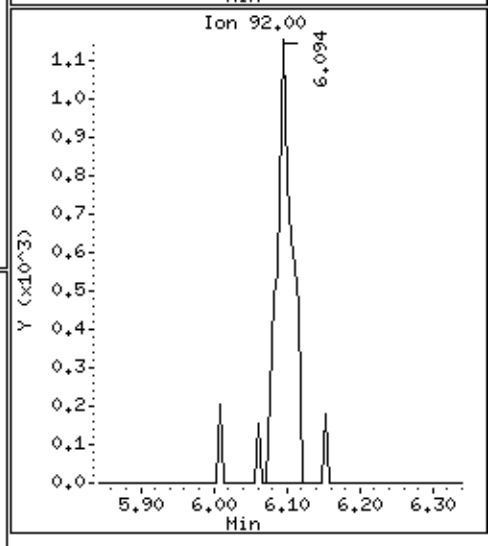
Concentration: 0.367 ppb

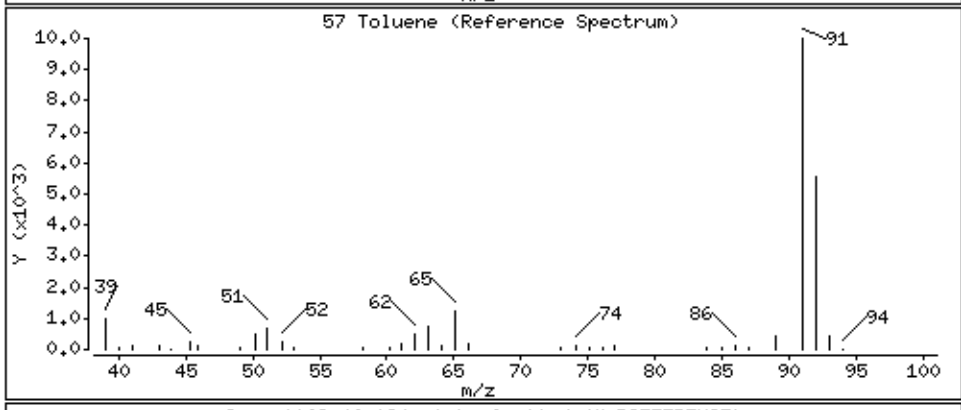
Review Code:

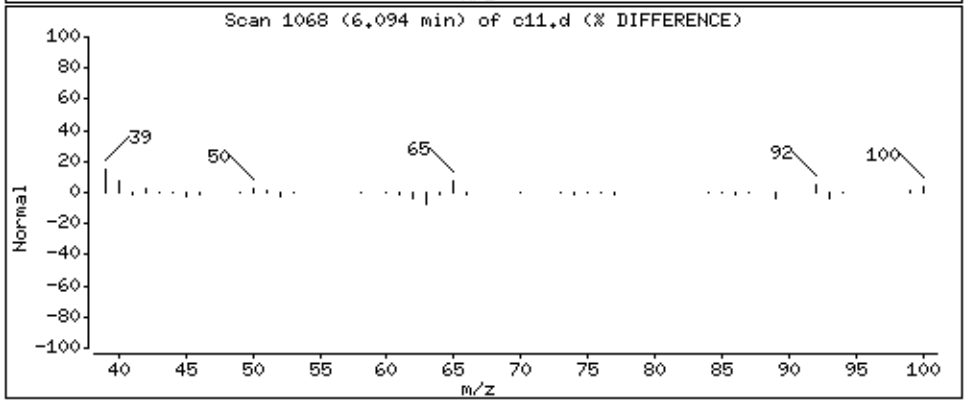












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c11.d
Injection Date: 12-APR-2016 04:18
Instrument: 50mv3a.i
Lab Sample ID: 50141666011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-1(033016)-LM

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:50 Lab Sample ID: 50141666012

Date Analyzed: 04/12/2016 04:50 Lab File ID: A041116.B\C12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

FD-1(033016)-LM

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:50 Lab Sample ID: 50141666012

Date Analyzed: 04/12/2016 04:50 Lab File ID: A041116.B\C12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c12.d
Lab Smp Id: 50141666012 Client Smp ID: FD-1(033016)-LM
Inj Date : 12-APR-2016 04:50
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666012
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 71
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

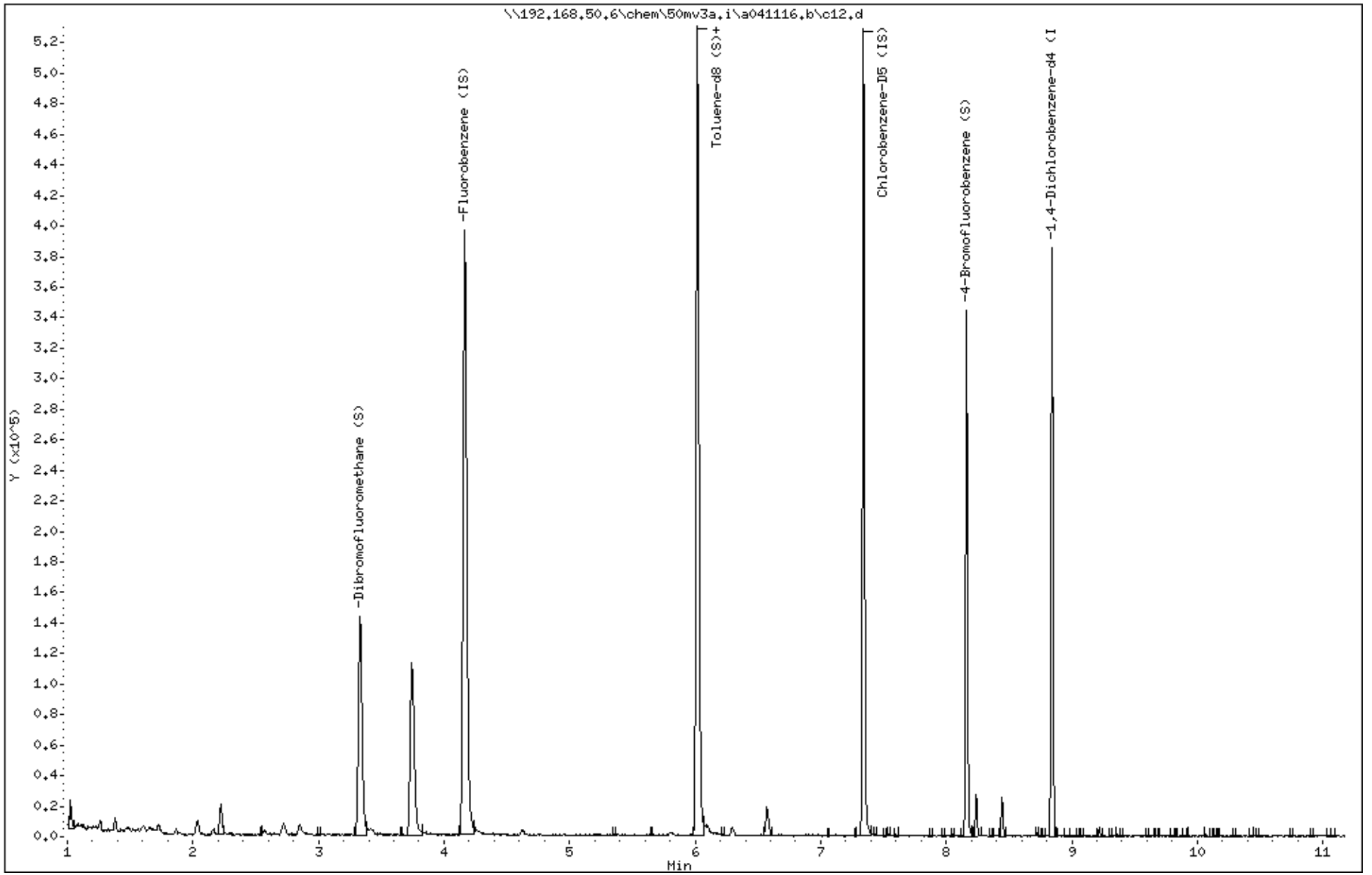
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
$ 35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	91217	53.0238	53.0	
* 45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	381804	50.0000		
$ 56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	304806	48.1895	48.2	
57 Toluene	91	6.092	6.091	(0.830)	2654	0.32730	0.327	
* 66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	184113	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	63334	41.6332	41.6	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	60900	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c12.d
Date : 12-APR-2016 04:50
Client ID: FD-1(033016)-LM
Sample Info: 50141666012
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c12.d

Date : 12-APR-2016 04:50

Client ID: FD-1(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666012

Purge Volume: 5.0

Operator: jlz

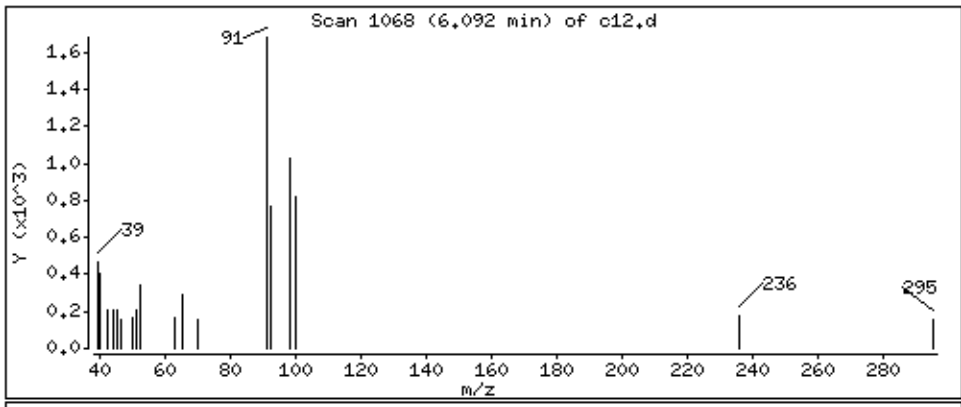
Column phase: DB-624

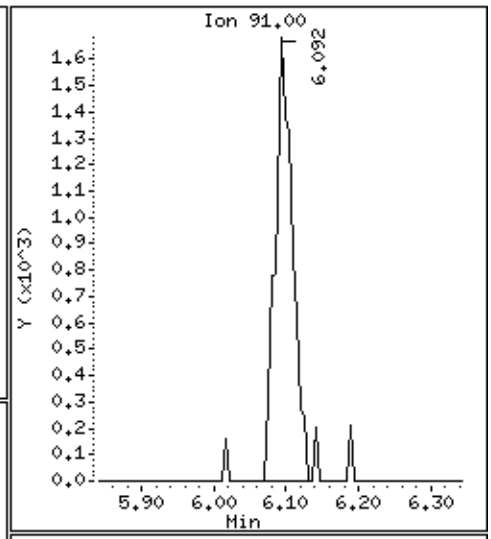
Column diameter: 0.18

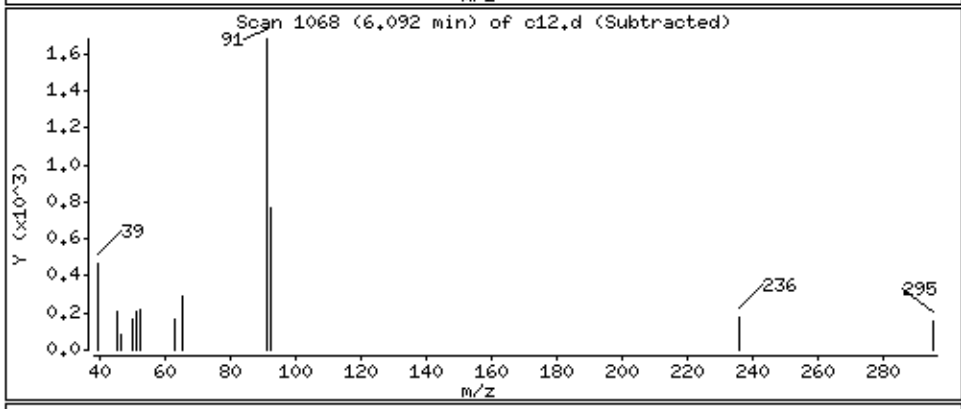
57 Toluene

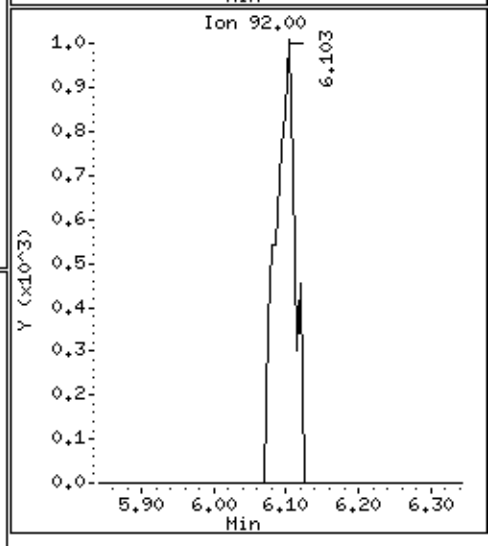
Concentration: 0.327 ppb

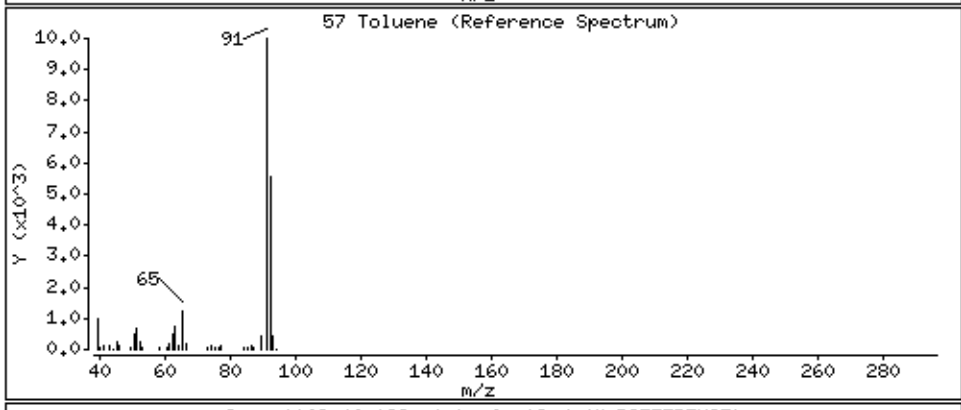
Review Code:

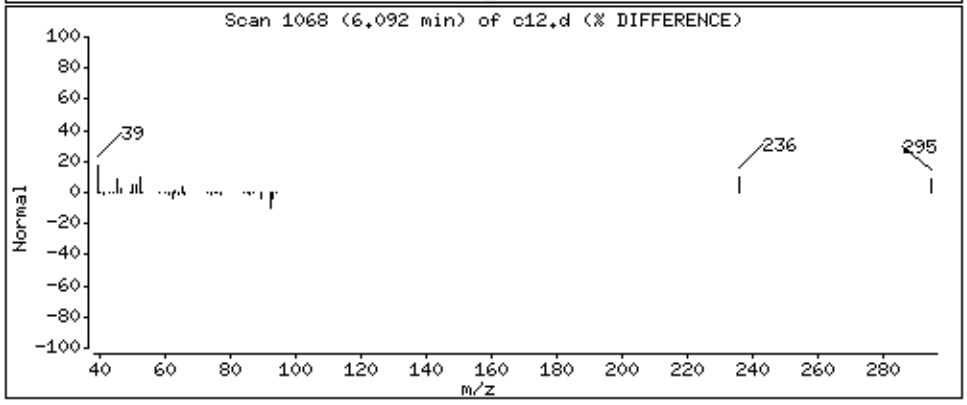












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c12.d
Injection Date: 12-APR-2016 04:50
Instrument: 50mv3a.i
Lab Sample ID: 50141666012
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0602-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:22 Lab Sample ID: 50141666013

Date Analyzed: 04/12/2016 05:22 Lab File ID: A041116.B\C13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0602-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:22 Lab Sample ID: 50141666013

Date Analyzed: 04/12/2016 05:22 Lab File ID: A041116.B\C13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c13.d
Lab Smp Id: 50141666013 Client Smp ID: MW-0602-S1(033016)P
Inj Date : 12-APR-2016 05:22
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666013
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 73
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

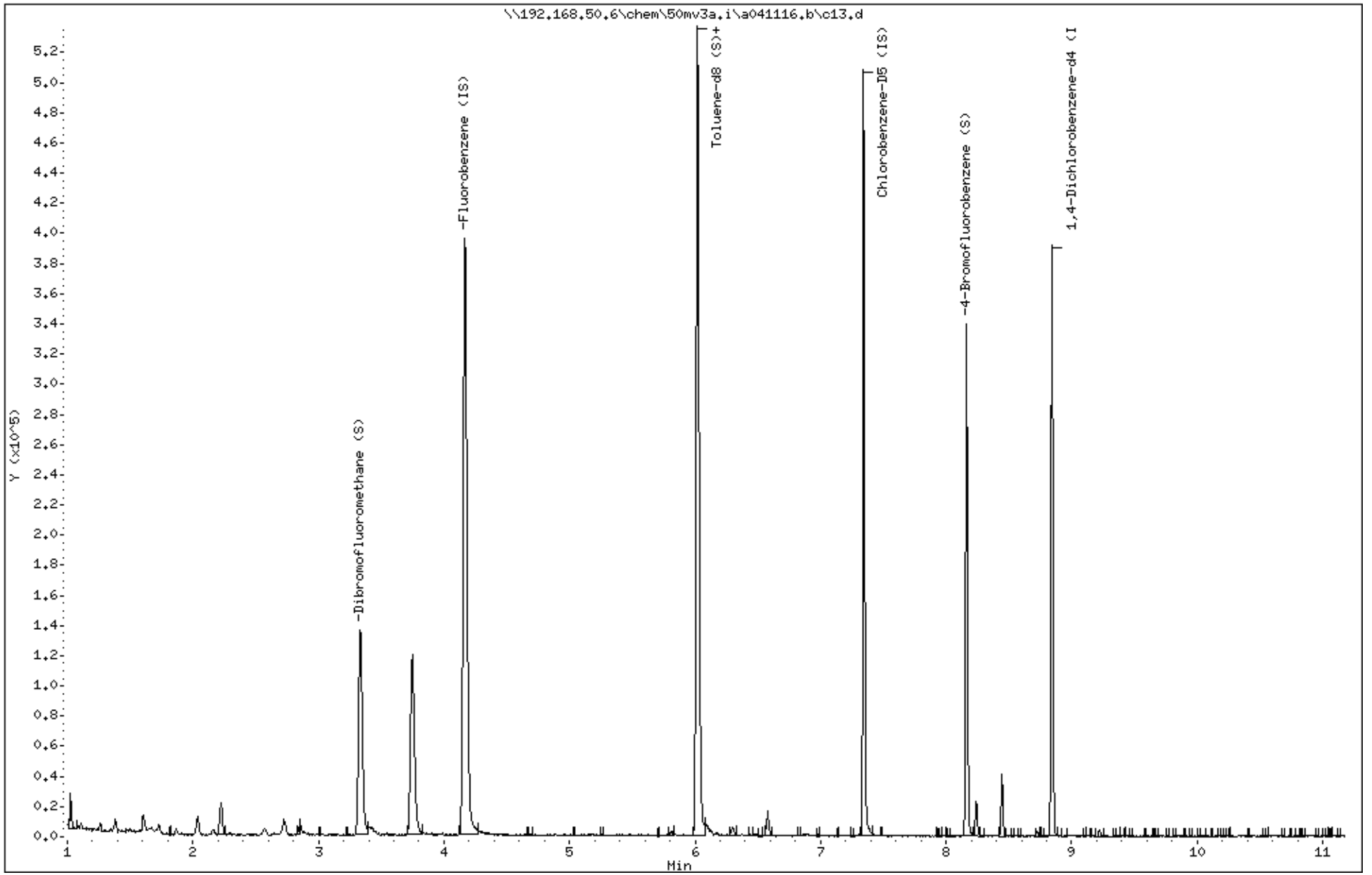
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.606	1.605	(0.385)	11131	22.5797	22.6	
$ 35 Dibromofluoromethane (S)	113	3.331	3.330	(0.799)	91457	52.0670	52.1	
* 45 Fluorobenzene (IS)	96	4.170	4.163	(1.000)	389843	50.0000		
$ 56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	311349	49.7831	49.8	
57 Toluene	91	6.092	6.091	(0.830)	2340	0.29186	0.292	
* 66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	182045	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	61943	41.1814	41.2	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	60230	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c13.d
Date : 12-APR-2016 05:22
Client ID: MW-0602-S1(033016)P
Sample Info: 50141666013
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c13.d

Date : 12-APR-2016 05:22

Client ID: MW-0602-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666013

Purge Volume: 5.0

Operator: jlz

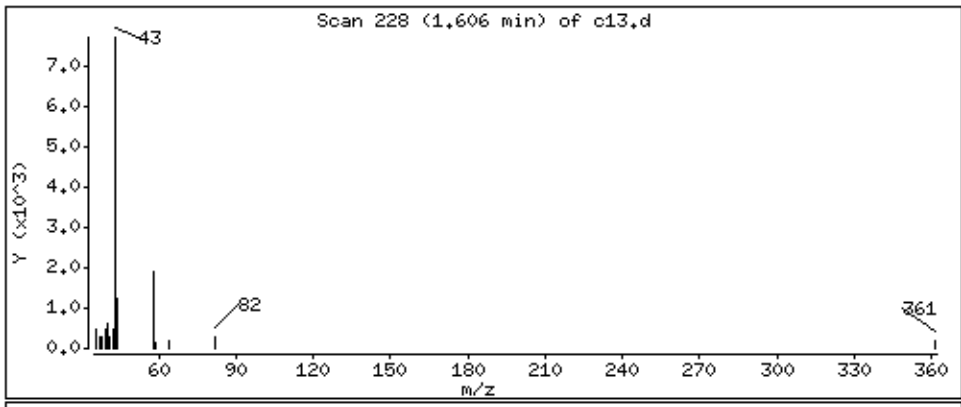
Column phase: DB-624

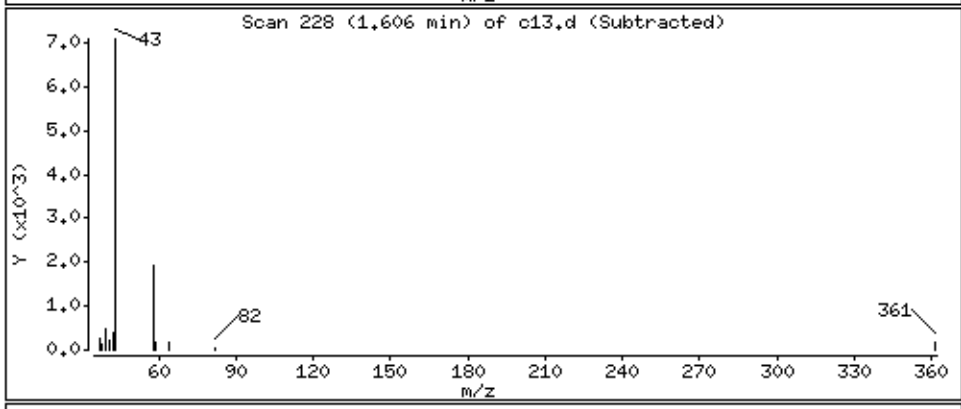
Column diameter: 0.18

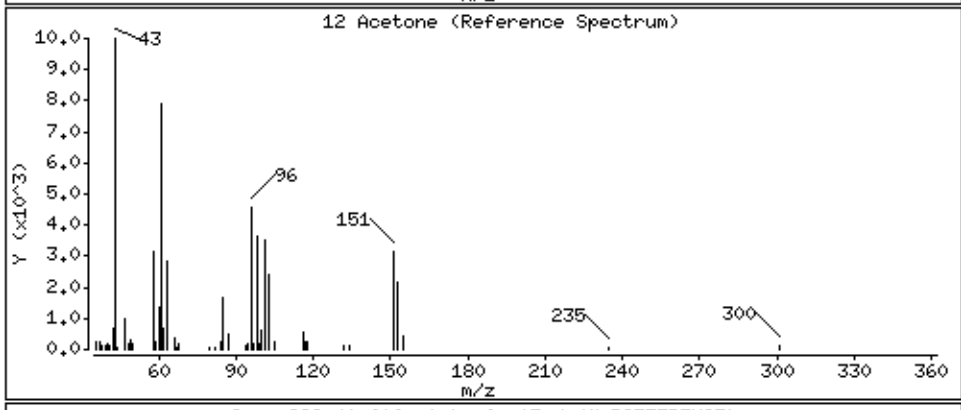
12 Acetone

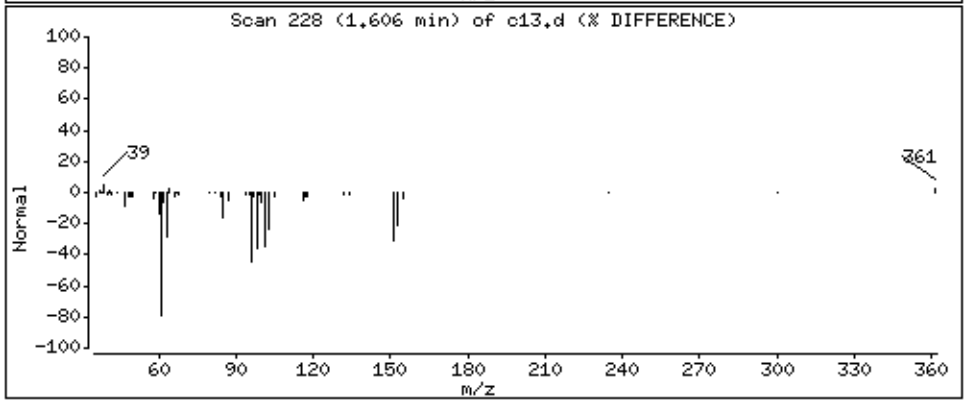
Concentration: 22.6 ppb

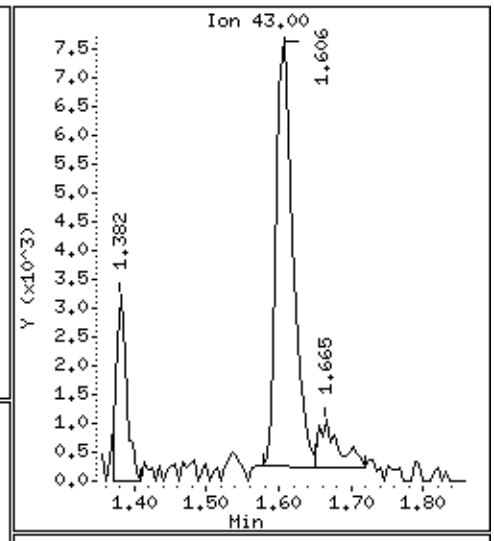
Review Code:

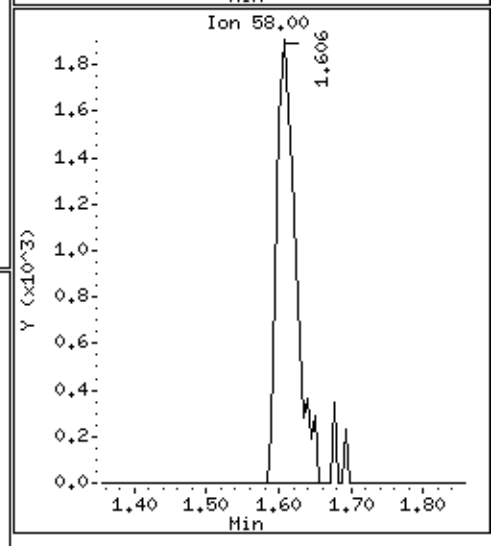












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c13.d

Date : 12-APR-2016 05:22

Client ID: MW-0602-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666013

Purge Volume: 5.0

Operator: jlz

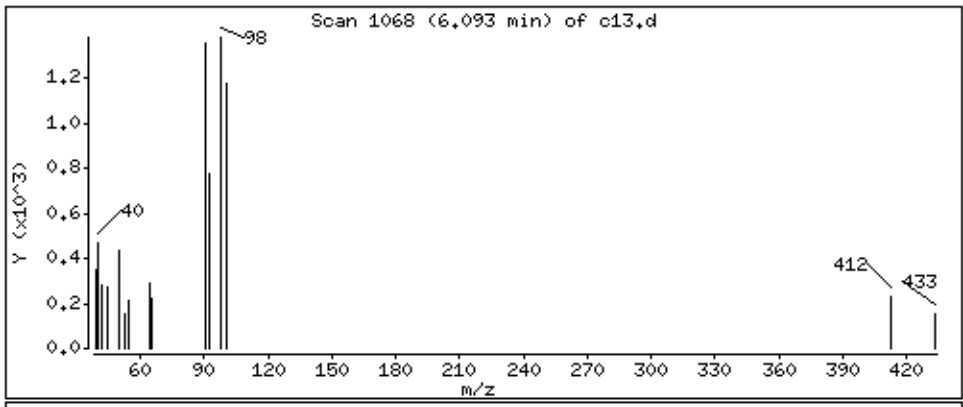
Column phase: DB-624

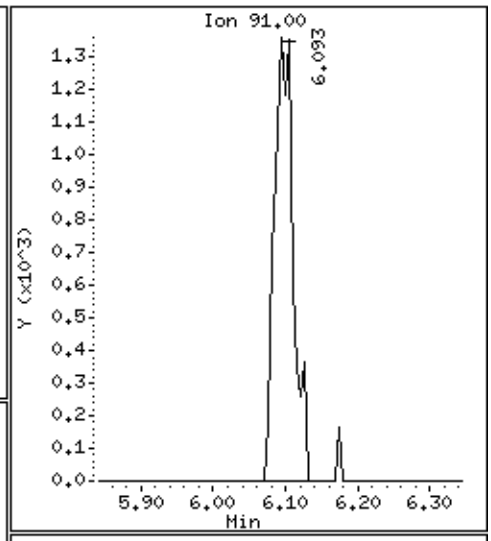
Column diameter: 0.18

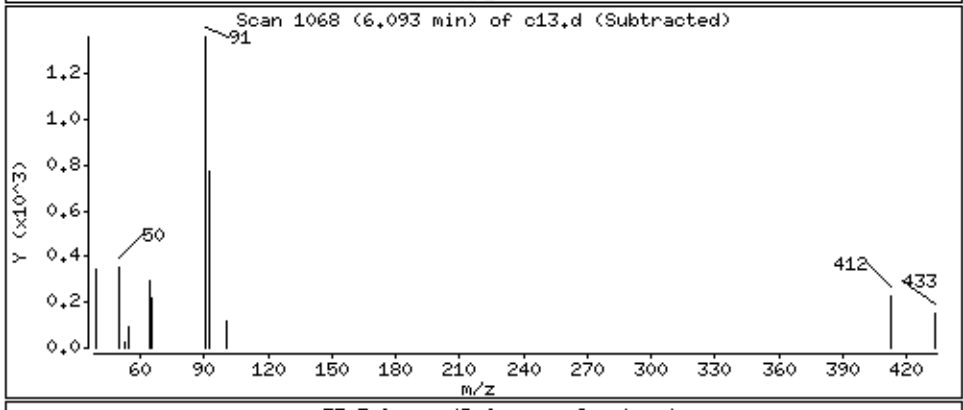
57 Toluene

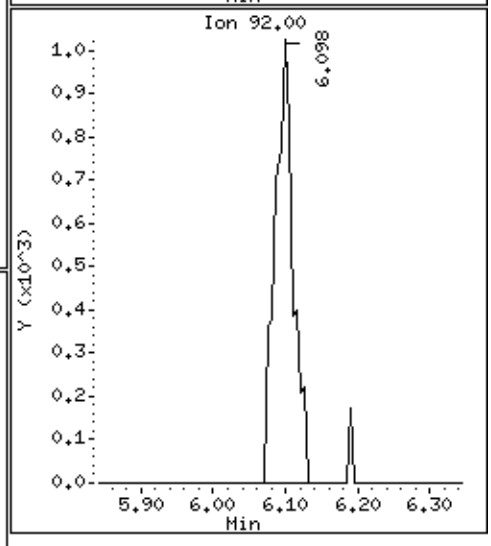
Concentration: 0.292 ppb

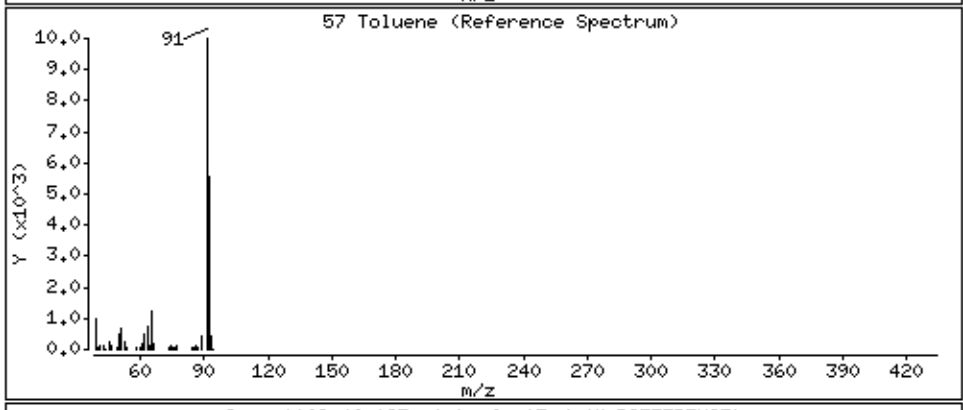
Review Code:

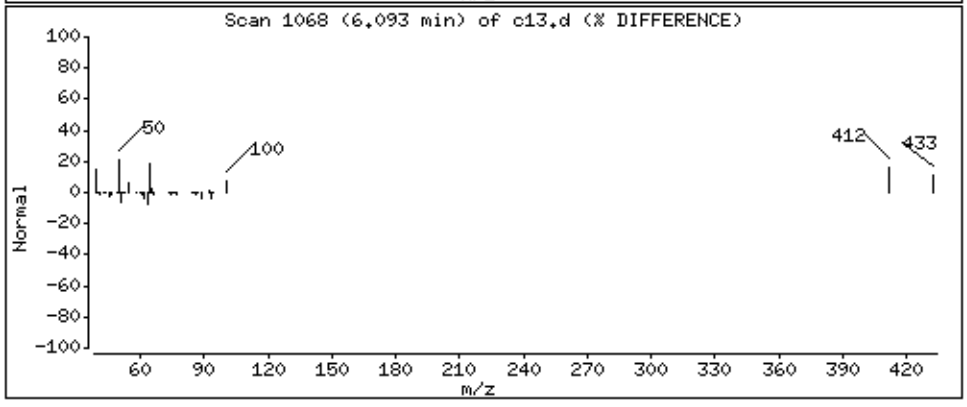












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c13.d
Injection Date: 12-APR-2016 05:22
Instrument: 50mv3a.i
Lab Sample ID: 50141666013
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0603-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:50 Lab Sample ID: 50141666014

Date Analyzed: 04/12/2016 00:50 Lab File ID: B041116.B\D04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0603-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:50 Lab Sample ID: 50141666014

Date Analyzed: 04/12/2016 00:50 Lab File ID: B041116.B\D04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d04.d
Lab Smp Id: 50141666014 Client Smp ID: MW-0603-S1(033016)P
Inj Date : 12-APR-2016 00:50
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666014
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

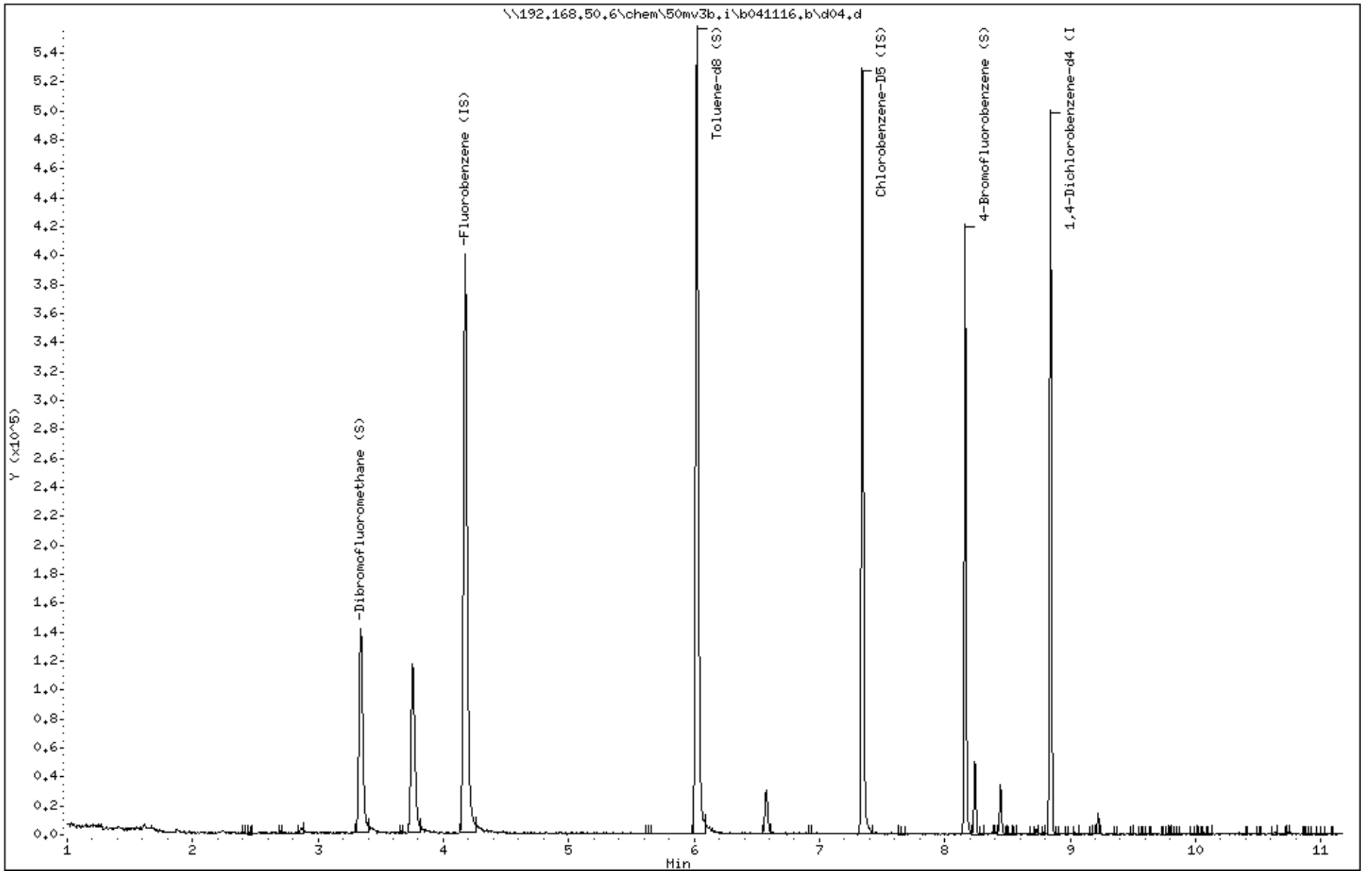
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
$ 35 Dibromofluoromethane (S)	113	3.336	3.342	(0.799)	93539	51.9760	52.0	
* 44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	393038	50.0000		
$ 55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	331011	49.5679	49.6	
* 65 Chlorobenzene-D5 (IS)	117	7.341	7.348	(1.000)	206659	50.0000		
$ 74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.112)	76929	42.3727	42.4	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	77961	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d04.d
Date : 12-APR-2016 00:50
Client ID: MW-0603-S1(033016)P
Instrument: 50mv3b.i
Sample Info: 50141666014
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d04.d
Injection Date: 12-APR-2016 00:50
Instrument: 50mv3b.i
Lab Sample ID: 50141666014
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0604-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:54 Lab Sample ID: 50141666015

Date Analyzed: 04/12/2016 05:54 Lab File ID: A041116.B\C14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	97.2	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	U

SAMPLE NO.

MW-0604-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:54 Lab Sample ID: 50141666015

Date Analyzed: 04/12/2016 05:54 Lab File ID: A041116.B\C14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	37.7	
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d
Lab Smp Id: 50141666015 Client Smp ID: MW-0604-S1(033016)P
Inj Date : 12-APR-2016 05:54
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666015
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 75
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

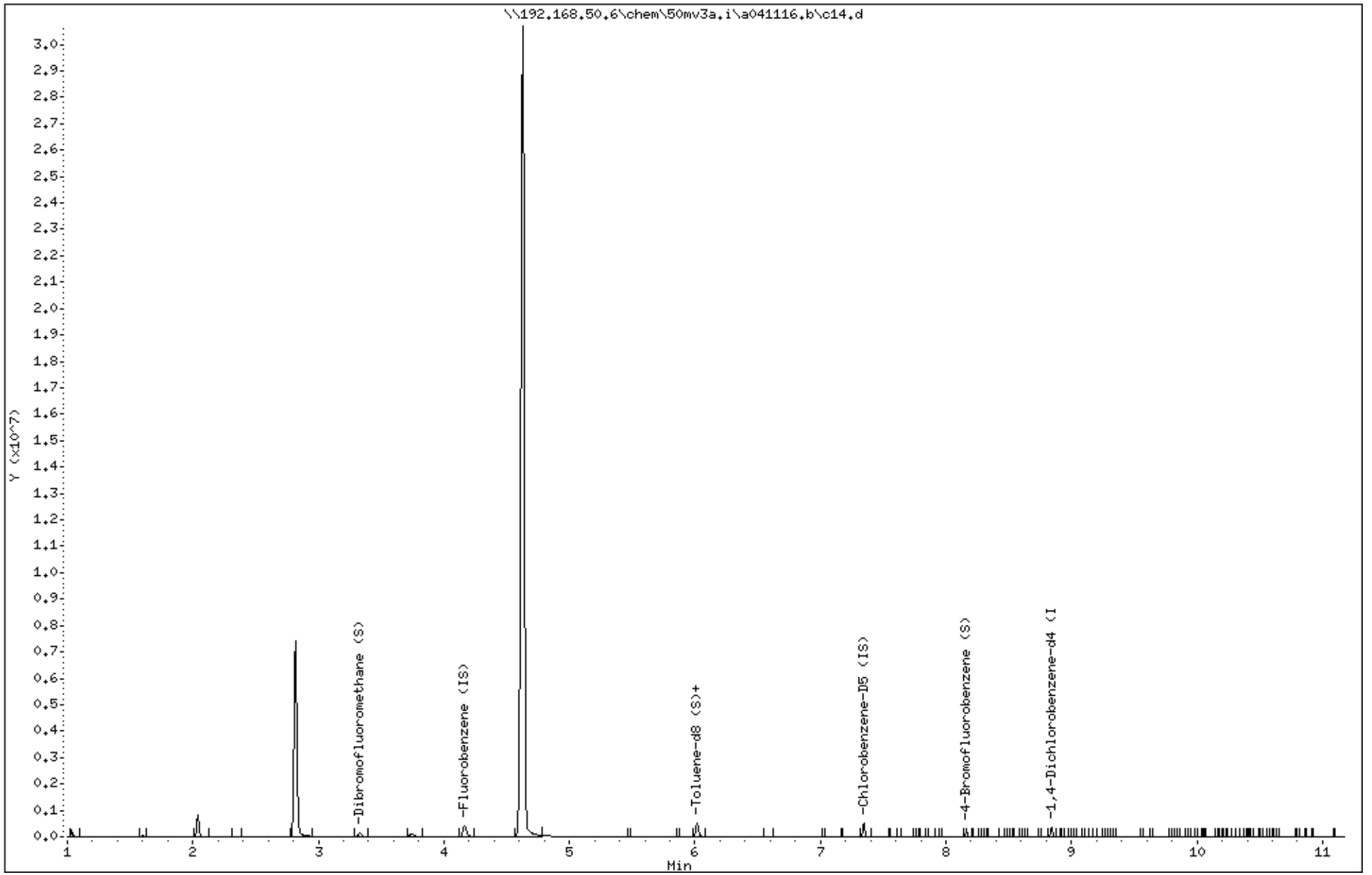
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.037	1.033	(0.249)	129122	37.7465	37.7	
	11 1,1-Dichloroethene	96	1.598	1.594	(0.384)	10223	4.23182	4.23	
	12 Acetone	43	1.603	1.605	(0.385)	5834	11.4616	11.5	
	22 1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	215824	97.1920	97.2	
	25 1,1-Dichloroethane	63	2.340	2.342	(0.562)	13825	3.47796	3.48	
	28 1,2-Dichloroethene (cis)	96	2.815	2.812	(0.676)	2757703	1250.40	1250	
$	35 Dibromofluoromethane (S)	113	3.334	3.330	(0.800)	90103	49.6799	49.7	
*	45 Fluorobenzene (IS)	96	4.167	4.163	(1.000)	402526	50.0000		
	46 Trichloroethene	95	4.626	4.612	(1.110)	9535083	4673.54	4670	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	305767	50.2835	50.3	
	57 Toluene	91	6.100	6.091	(0.831)	3384	0.43410	0.434	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	177002	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	59903	40.9598	41.0	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	56508	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d
Date : 12-APR-2016 05:54
Client ID: MW-0604-S1(033016)P
Sample Info: 50141666015
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

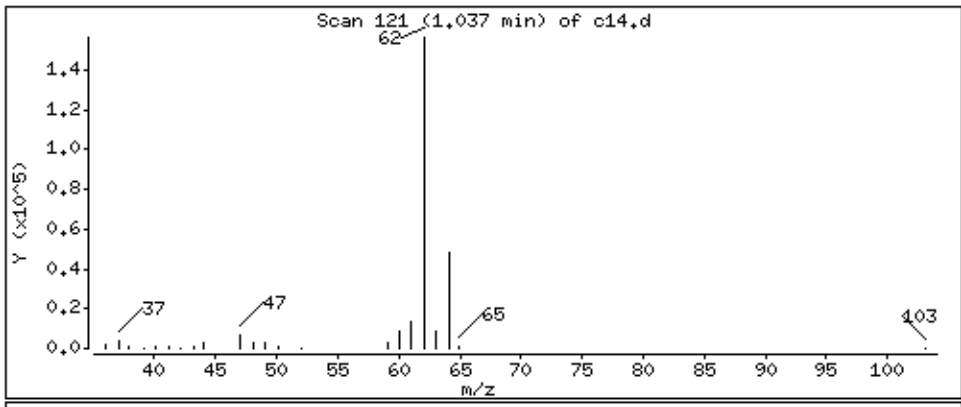
Column phase: DB-624

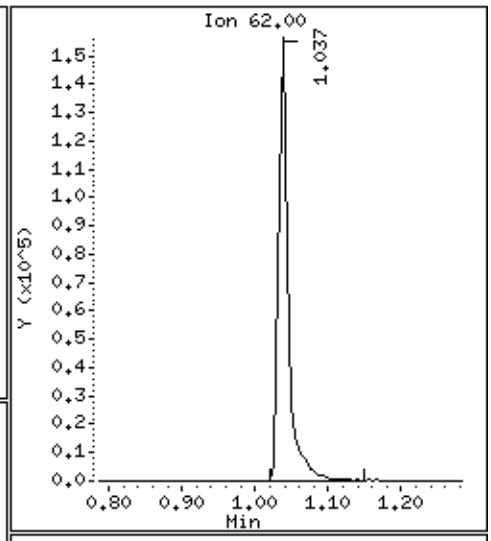
Column diameter: 0.18

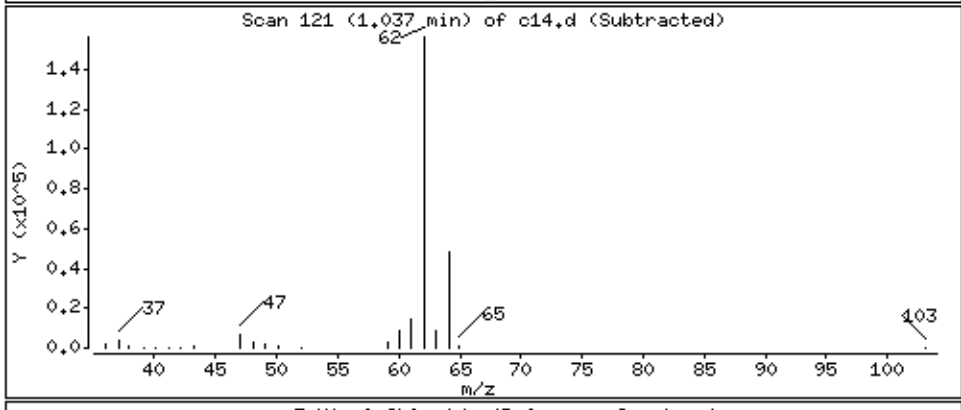
3 Vinyl Chloride

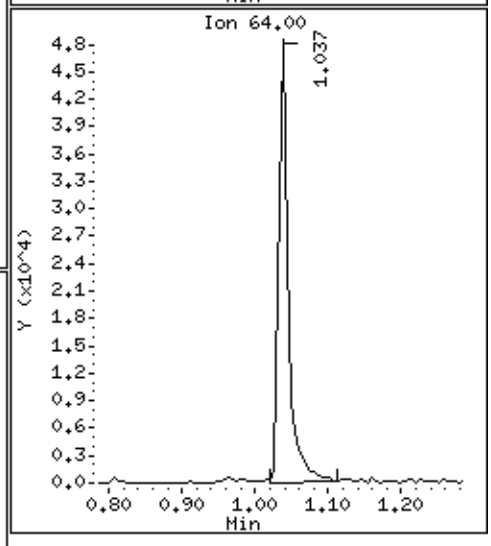
Concentration: 37.7 ppb

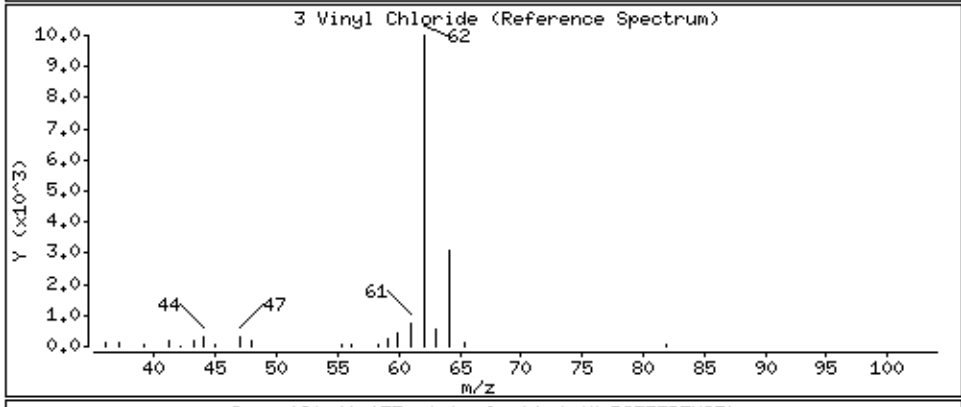
Review Code:

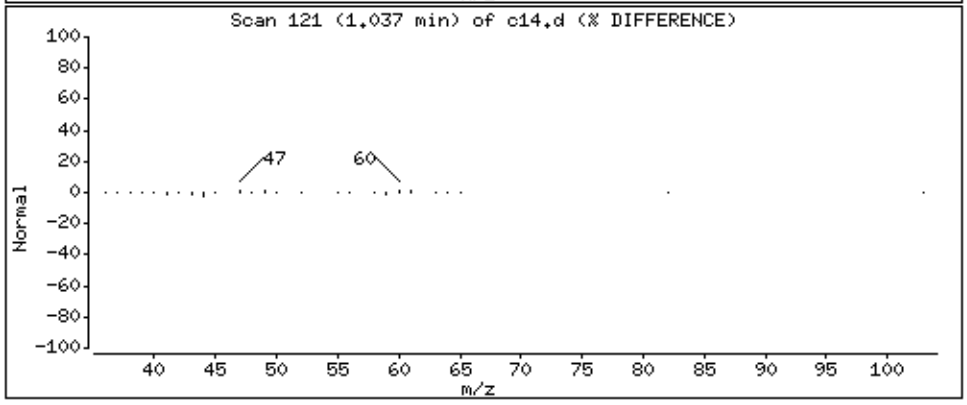












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

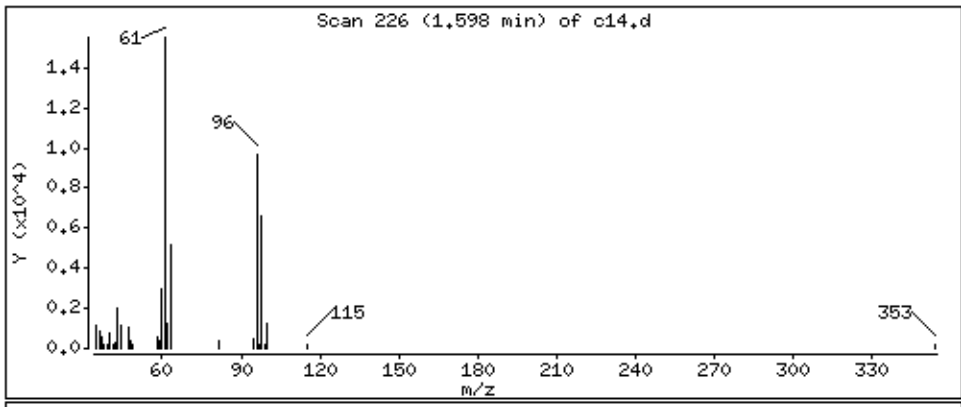
Column phase: DB-624

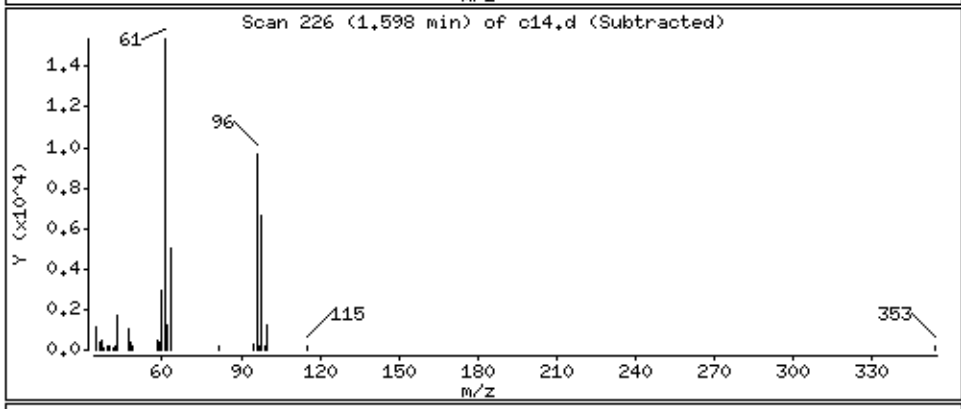
Column diameter: 0.18

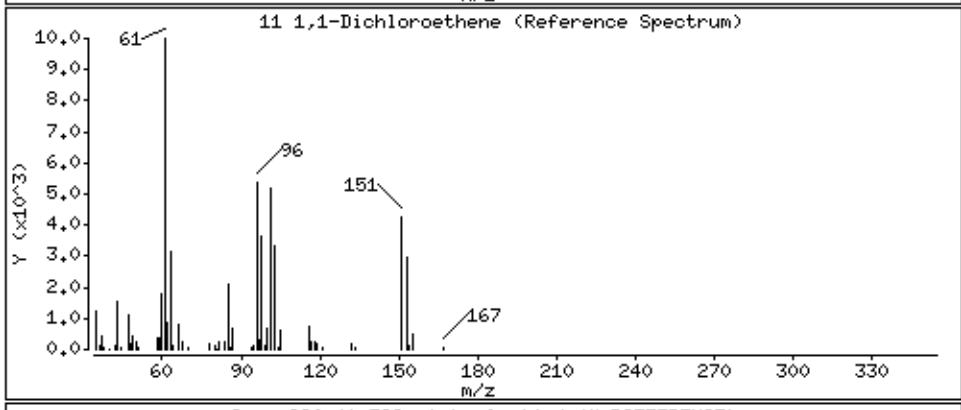
11 1,1-Dichloroethene

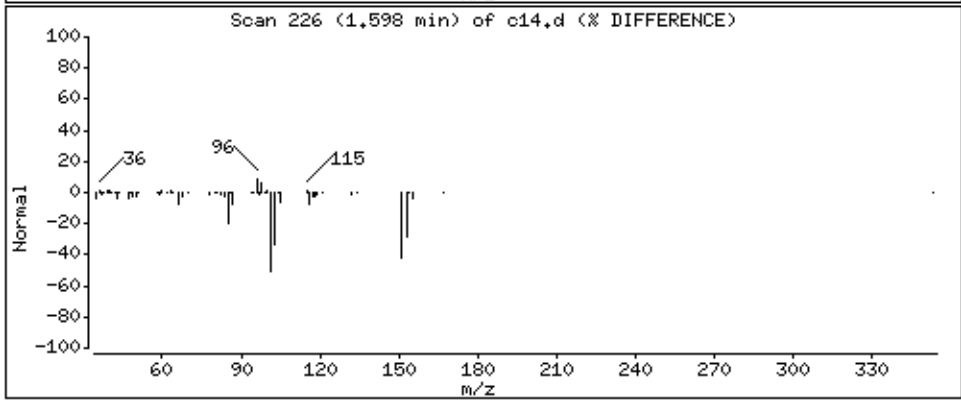
Concentration: 4.23 ppb

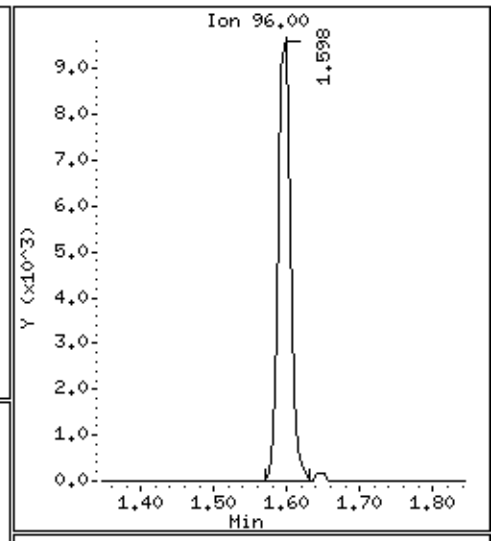
Review Code:

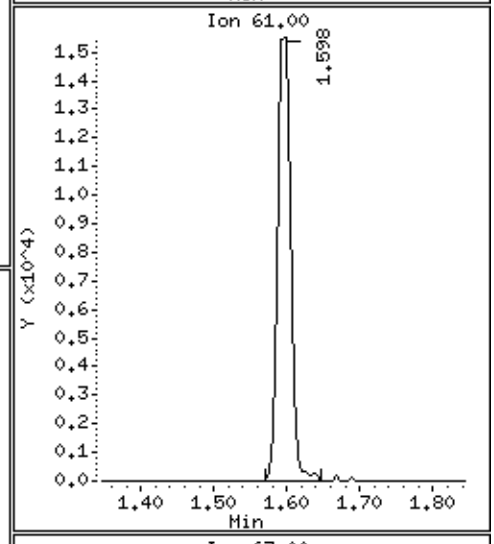


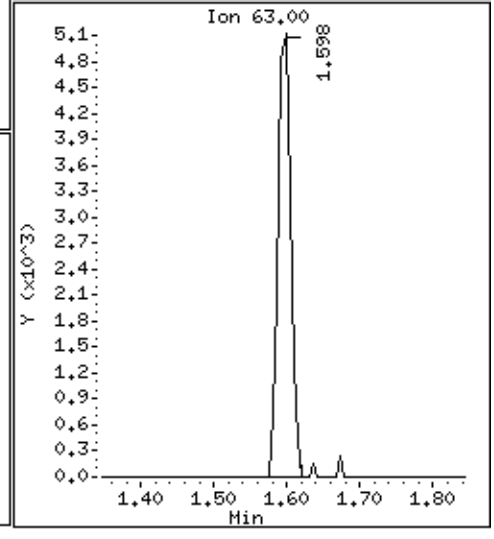












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

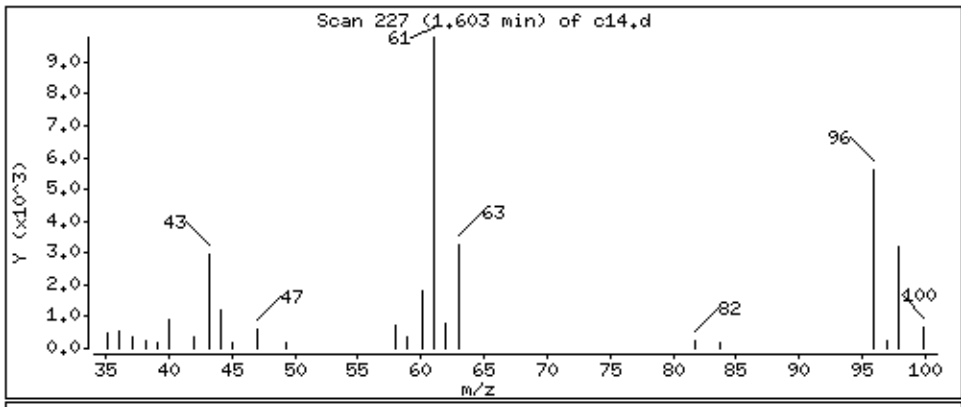
Column phase: DB-624

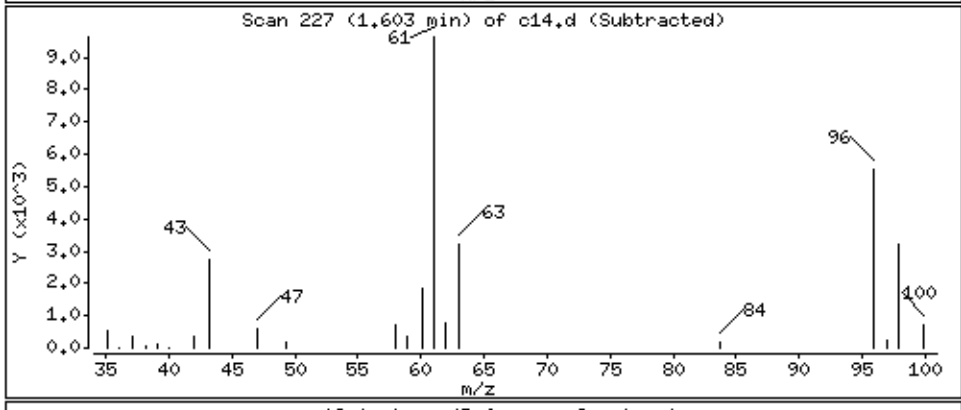
Column diameter: 0.18

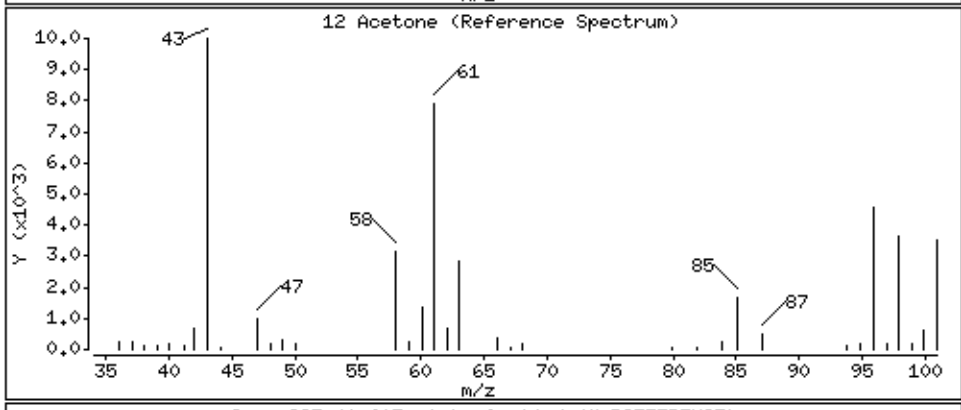
12 Acetone

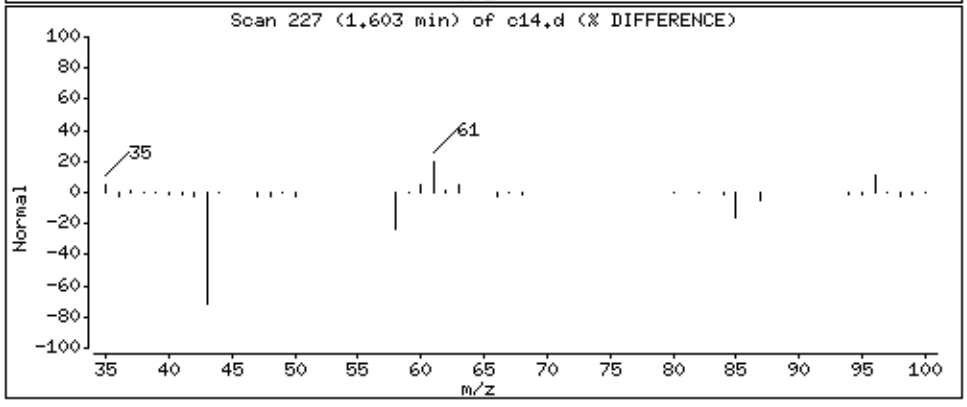
Concentration: 11.5 ppb

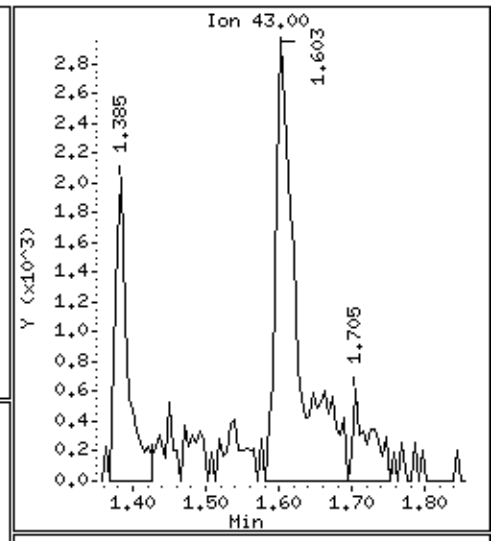
Review Code:

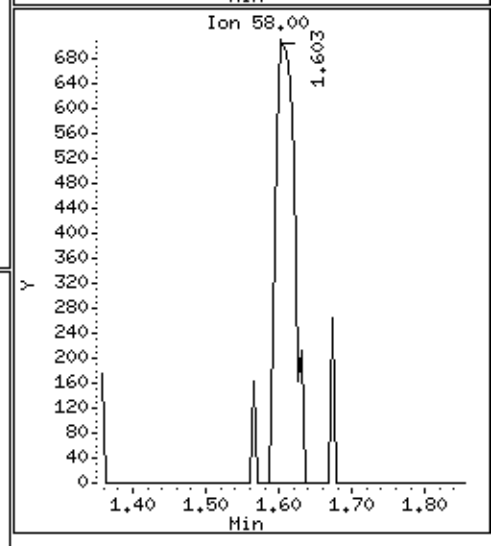












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

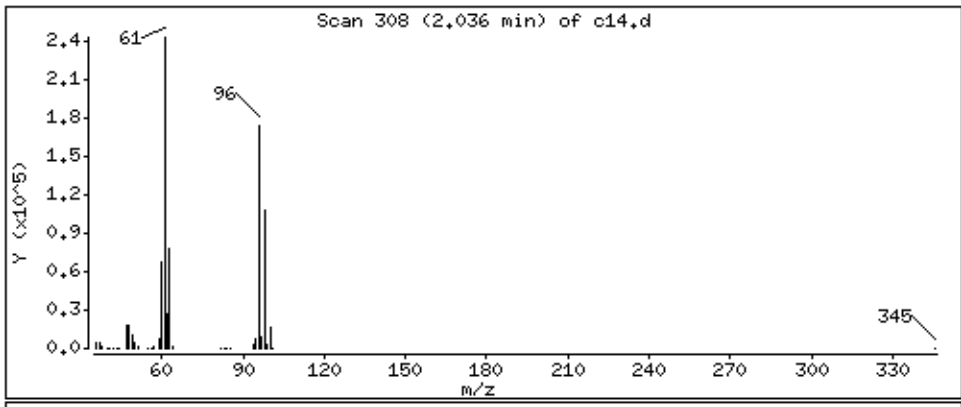
Column phase: DB-624

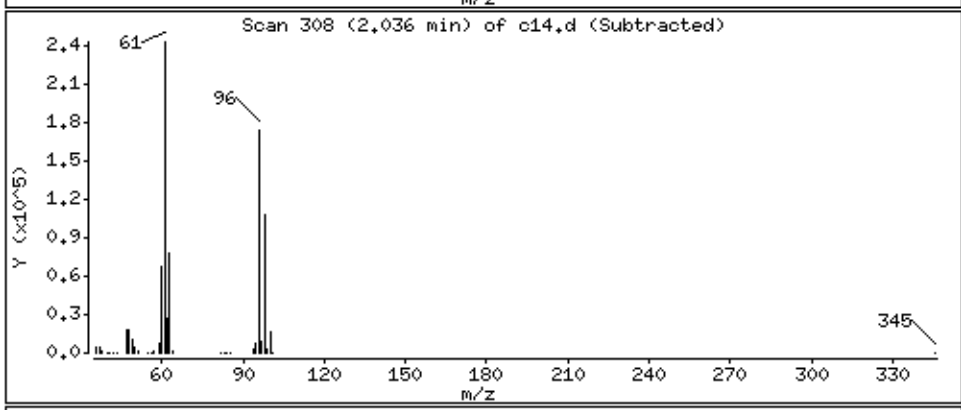
Column diameter: 0.18

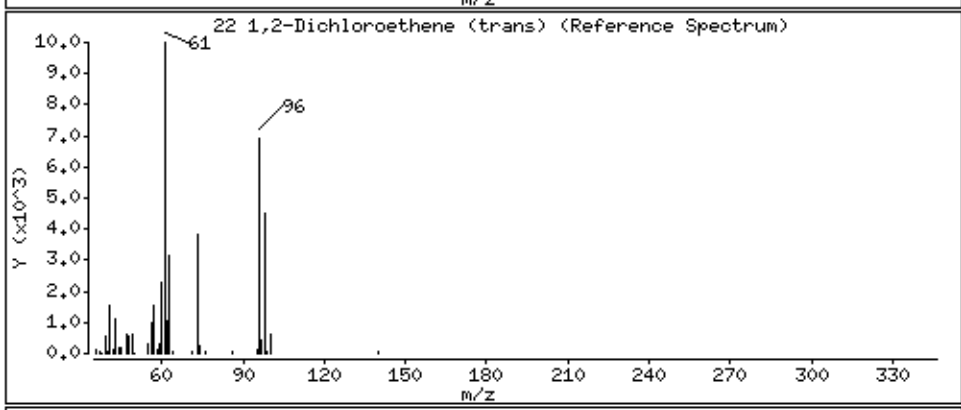
22 1,2-Dichloroethene (trans)

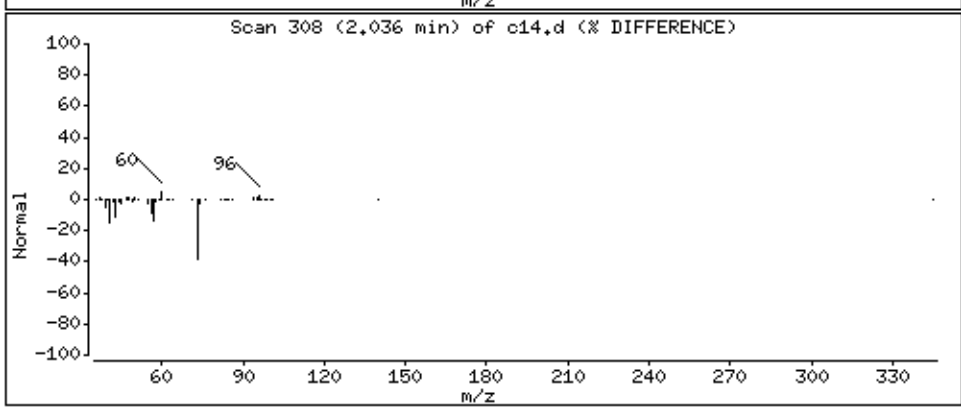
Concentration: 97.2 ppb

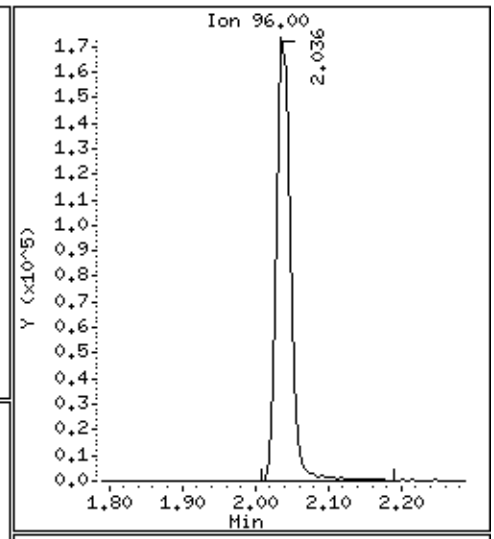
Review Code:

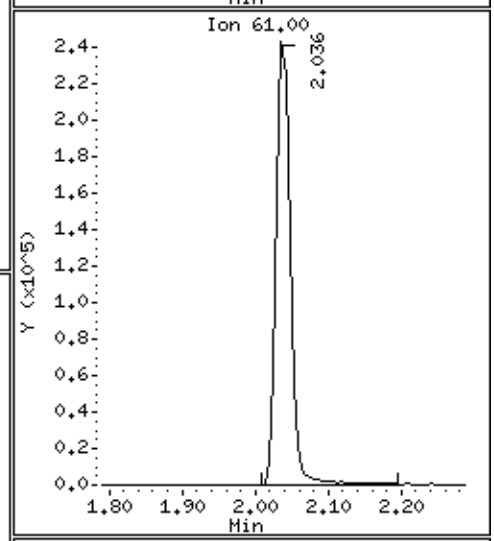


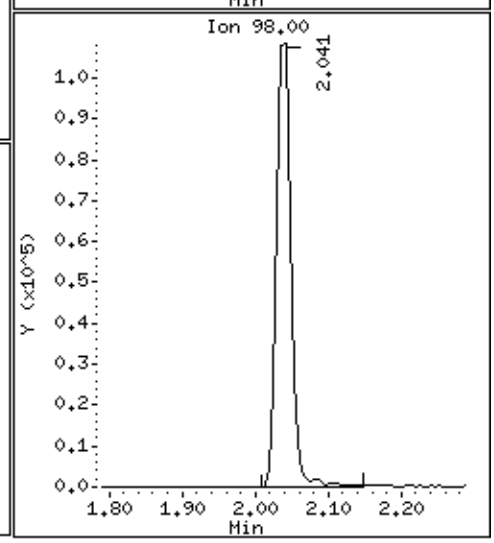












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

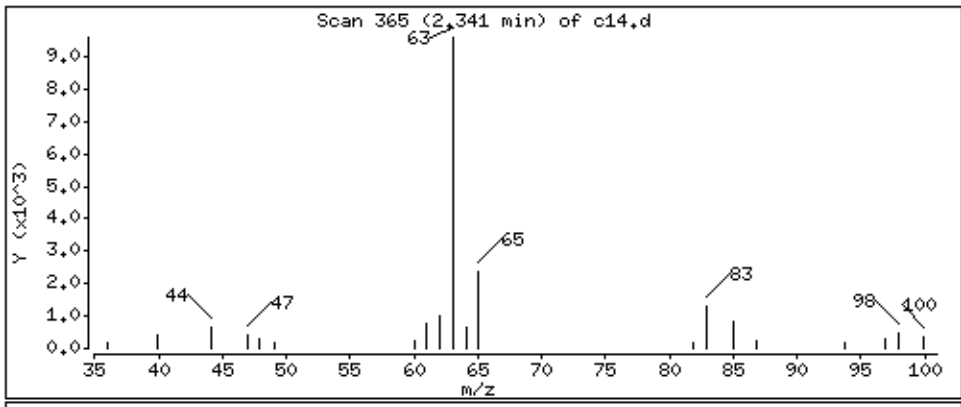
Column phase: DB-624

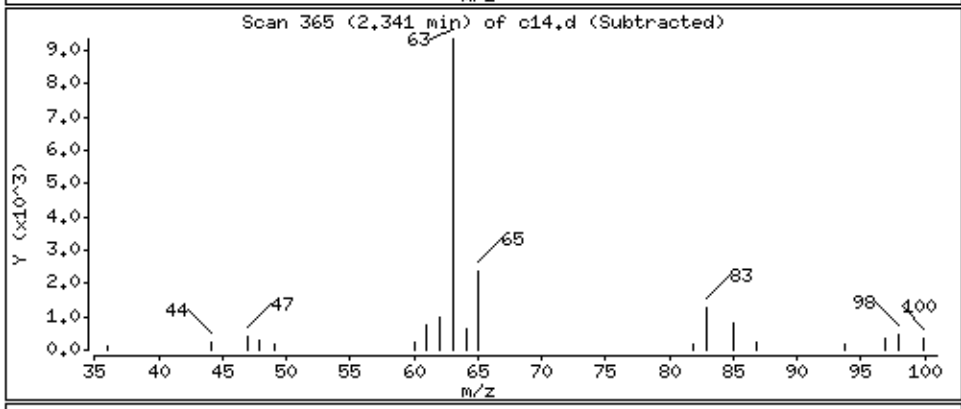
Column diameter: 0.18

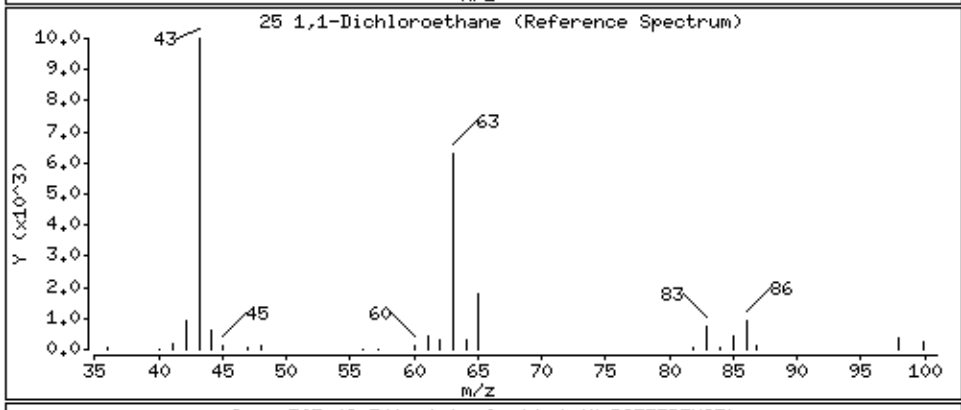
25 1,1-Dichloroethane

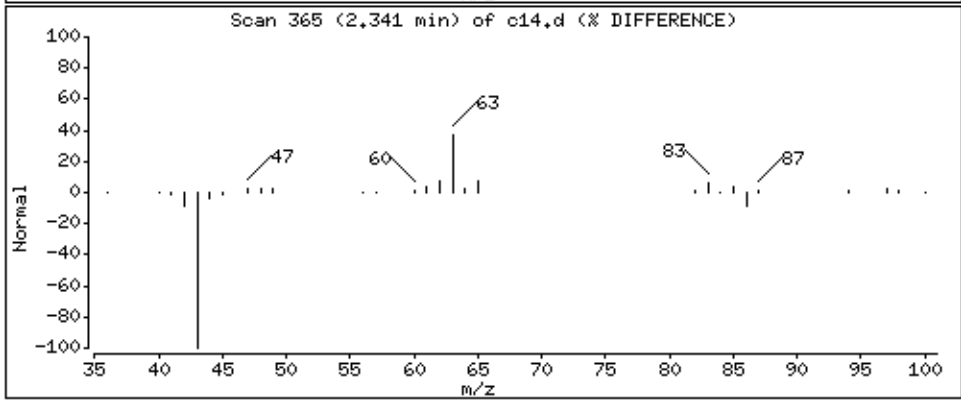
Concentration: 3.48 ppb

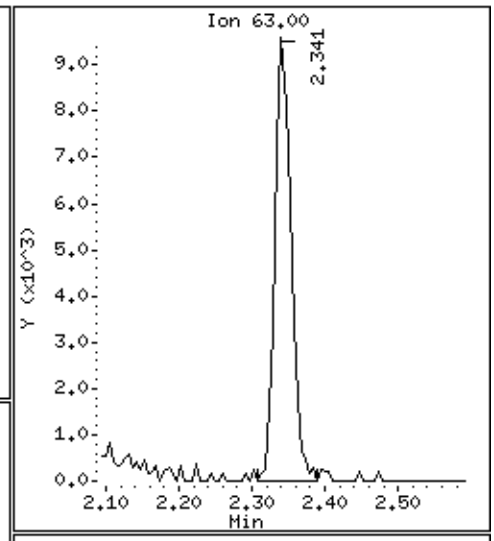
Review Code:

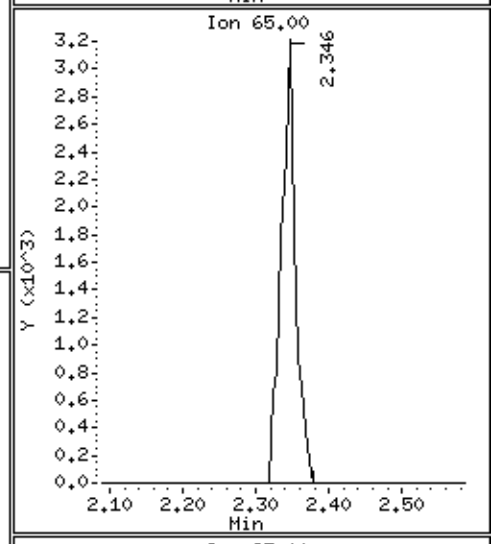


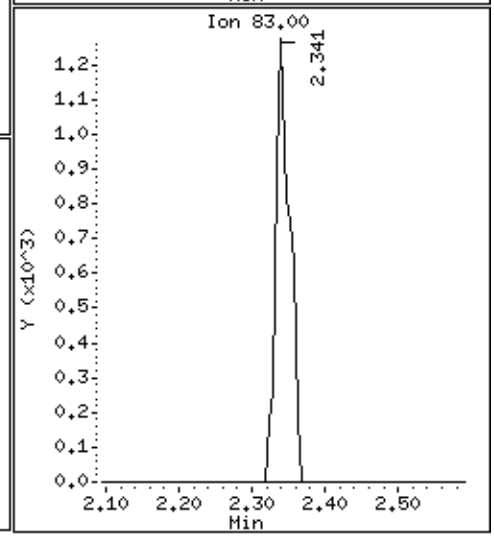












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

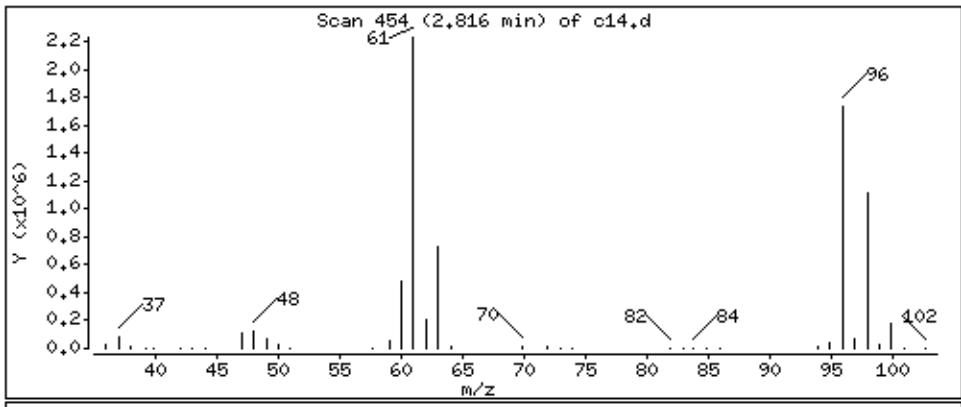
Column phase: DB-624

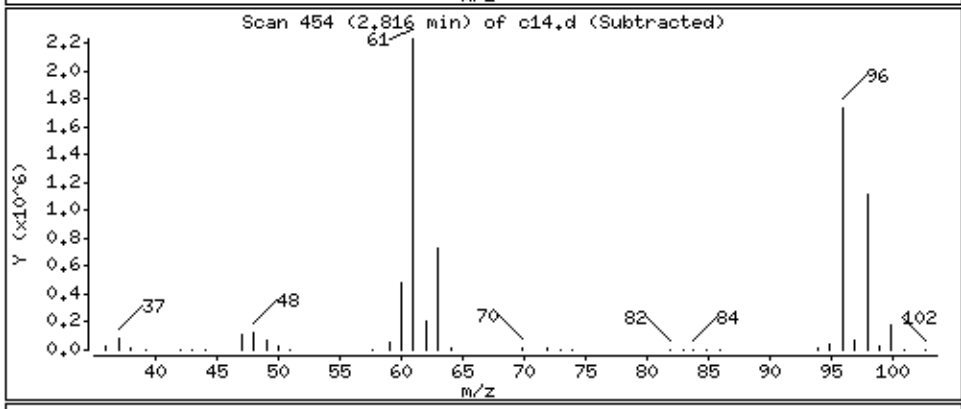
Column diameter: 0.18

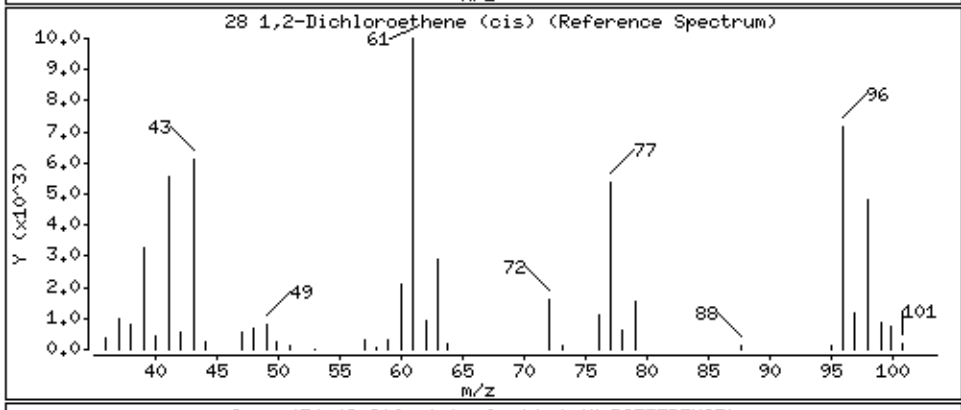
28 1,2-Dichloroethene (cis)

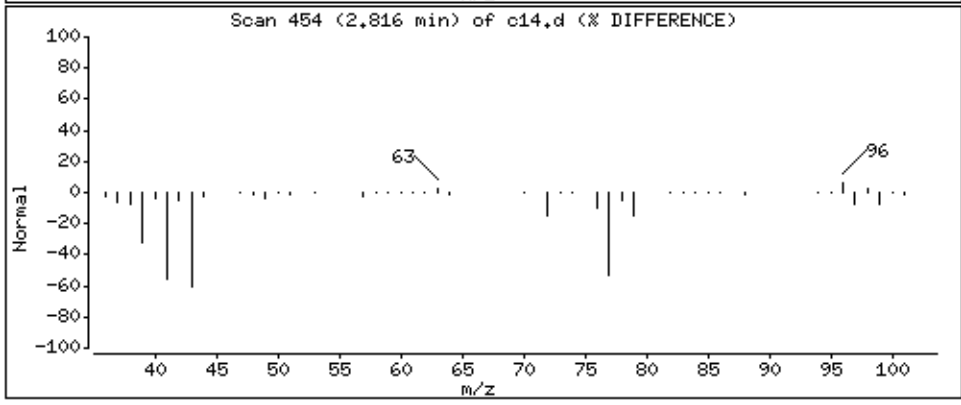
Concentration: 1250 ppb

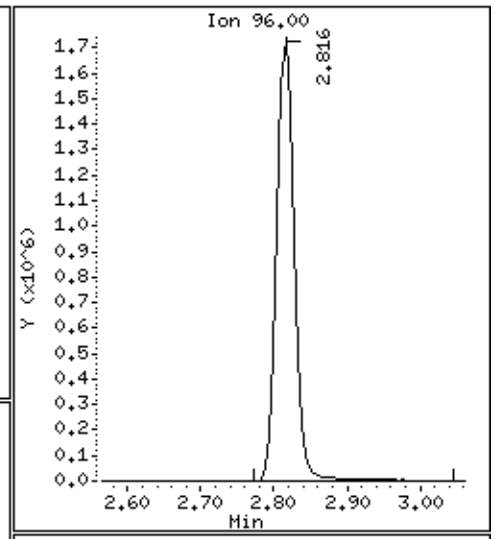
Review Code:

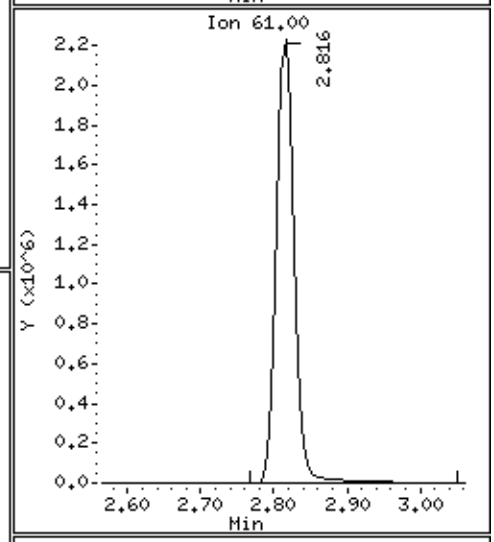


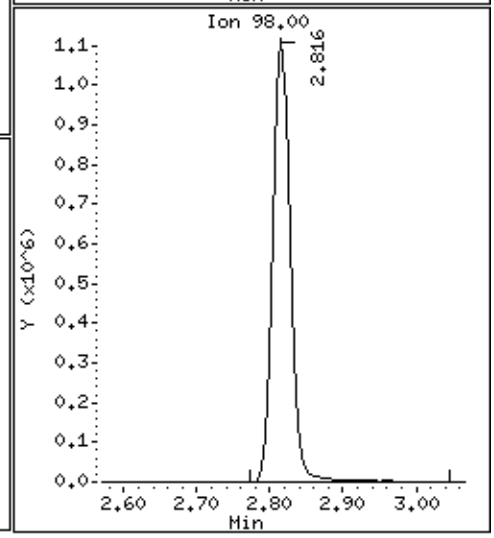












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

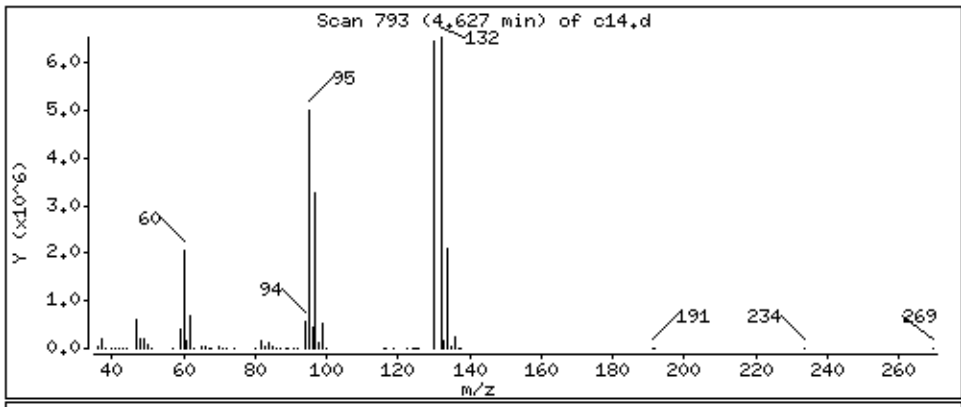
Column phase: DB-624

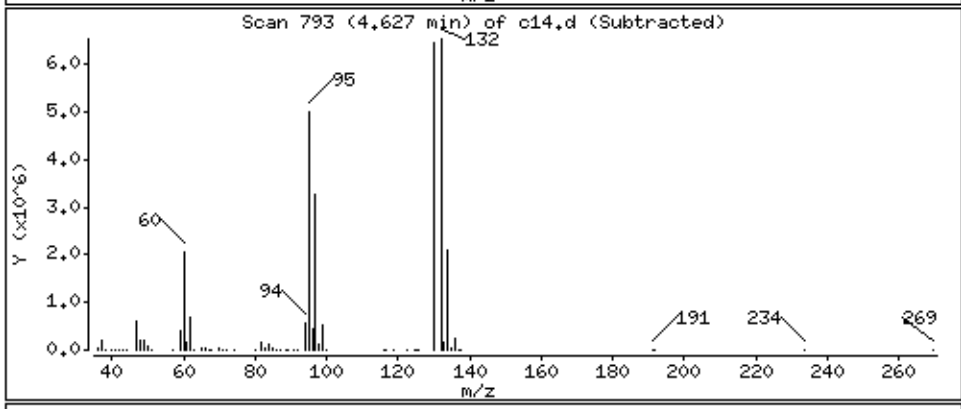
Column diameter: 0.18

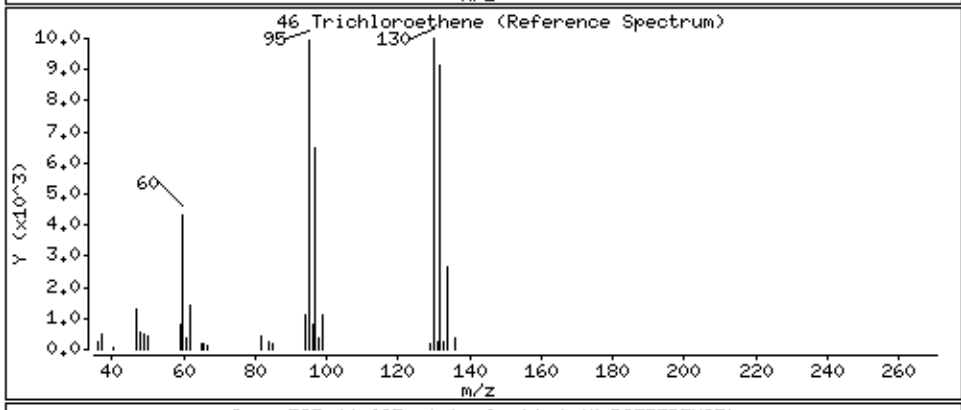
46 Trichloroethene

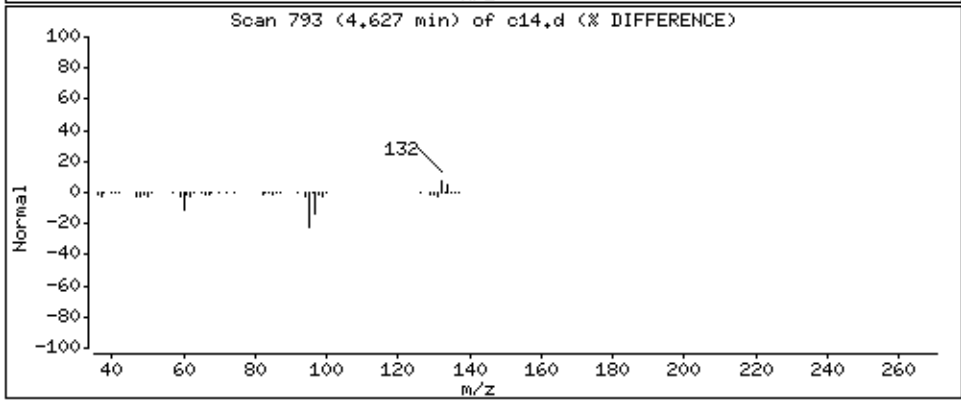
Concentration: 4670 ppb

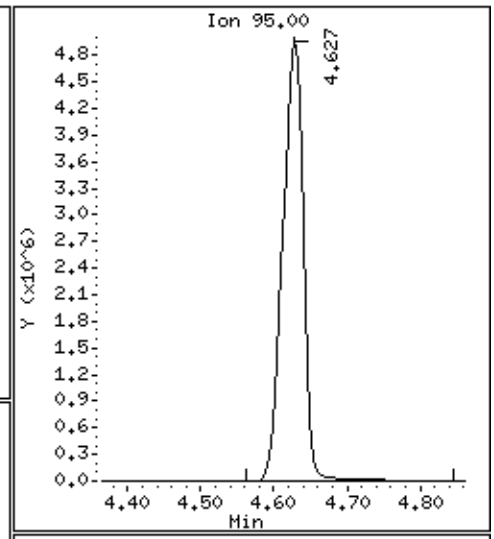
Review Code:

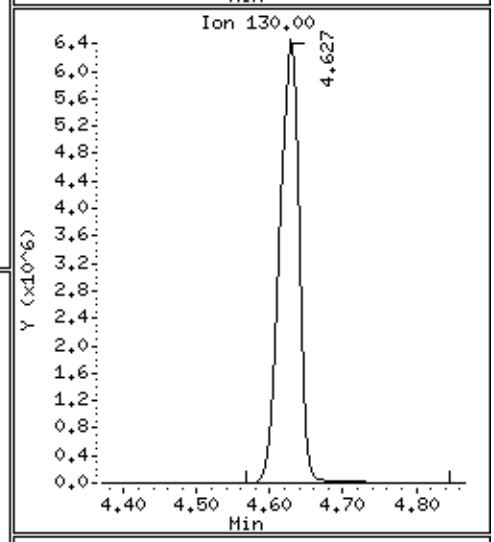


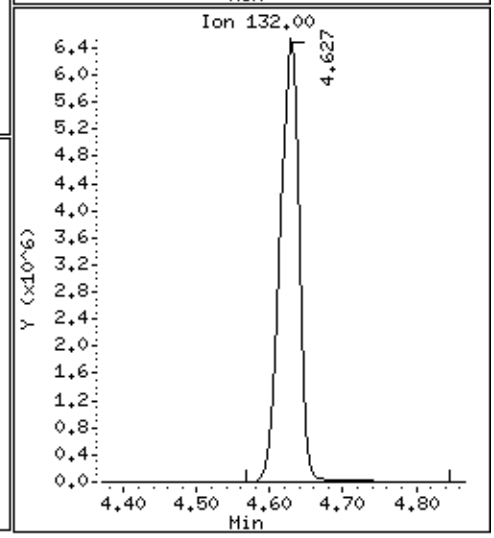












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c14.d

Date : 12-APR-2016 05:54

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015

Purge Volume: 5.0

Operator: jlz

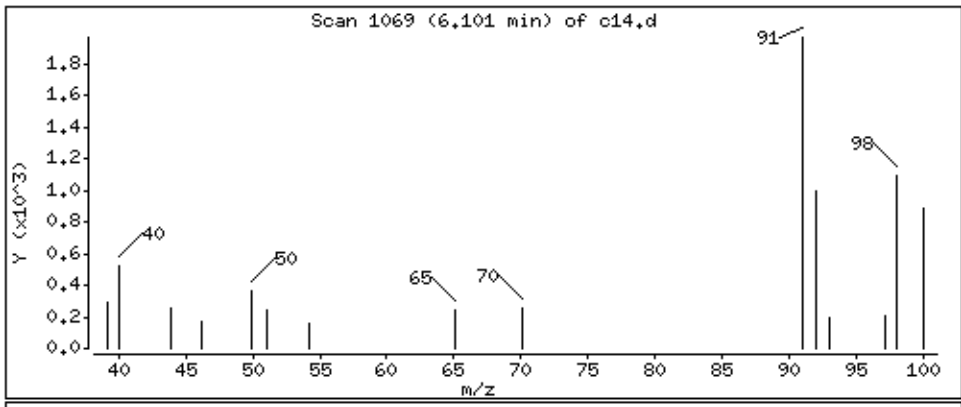
Column phase: DB-624

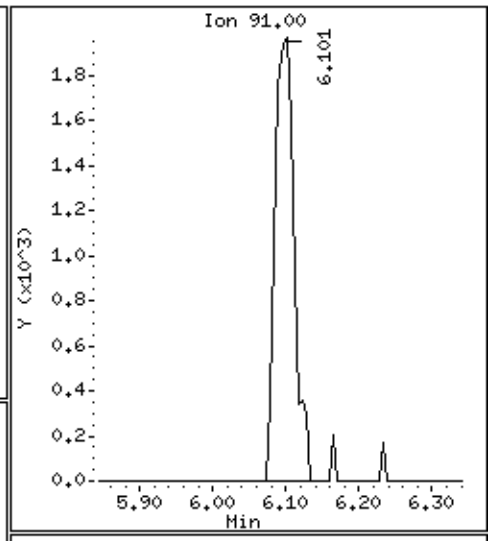
Column diameter: 0.18

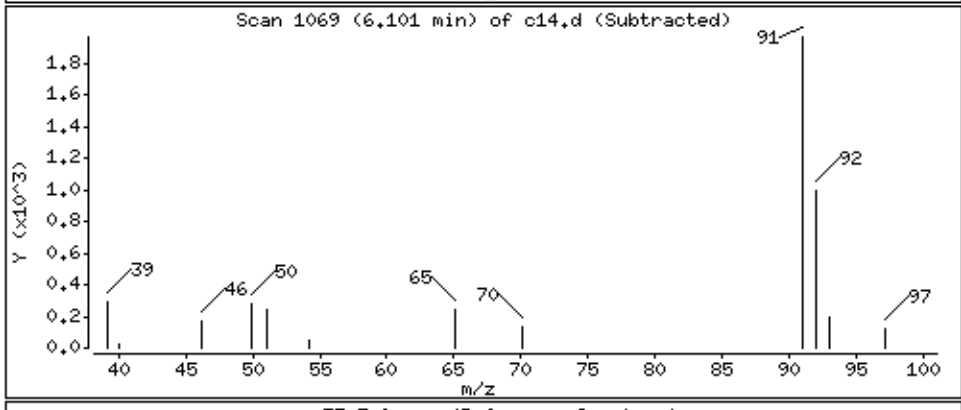
57 Toluene

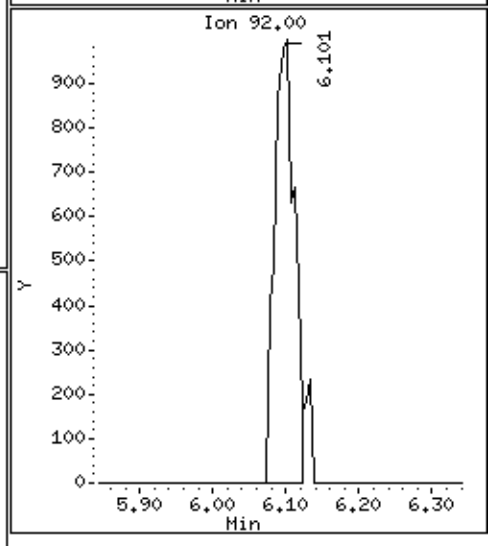
Concentration: 0.434 ppb

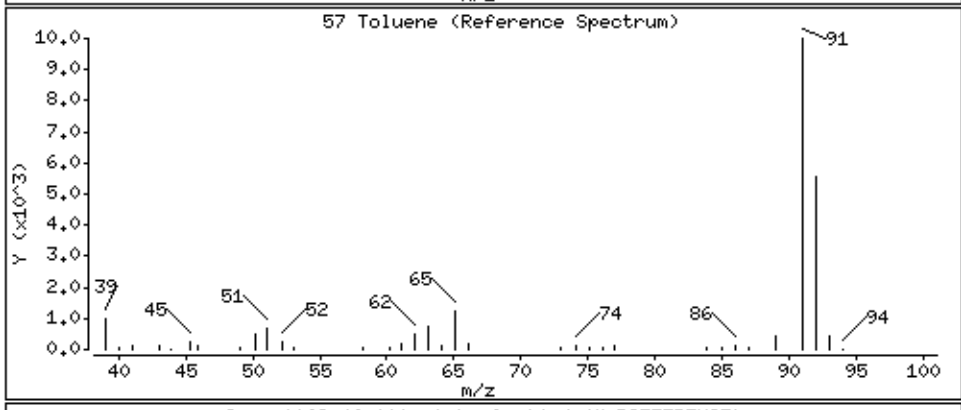
Review Code:

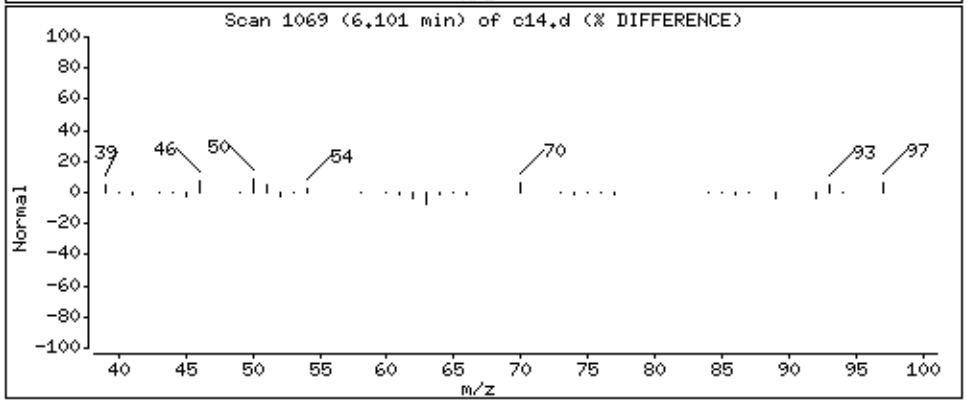












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c14.d
Injection Date: 12-APR-2016 05:54
Instrument: 50mv3a.i
Lab Sample ID: 50141666015
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0604-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 06:26 Lab Sample ID: 50141666015

Date Analyzed: 04/12/2016 06:26 Lab File ID: A041116.B\C15.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
156-59-2	cis-1,2-Dichloroethene	1030	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d
Lab Smp Id: 50141666015 Client Smp ID: MW-0604-S1(033016)P
Inj Date : 12-APR-2016 06:26
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666015x10
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 77
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

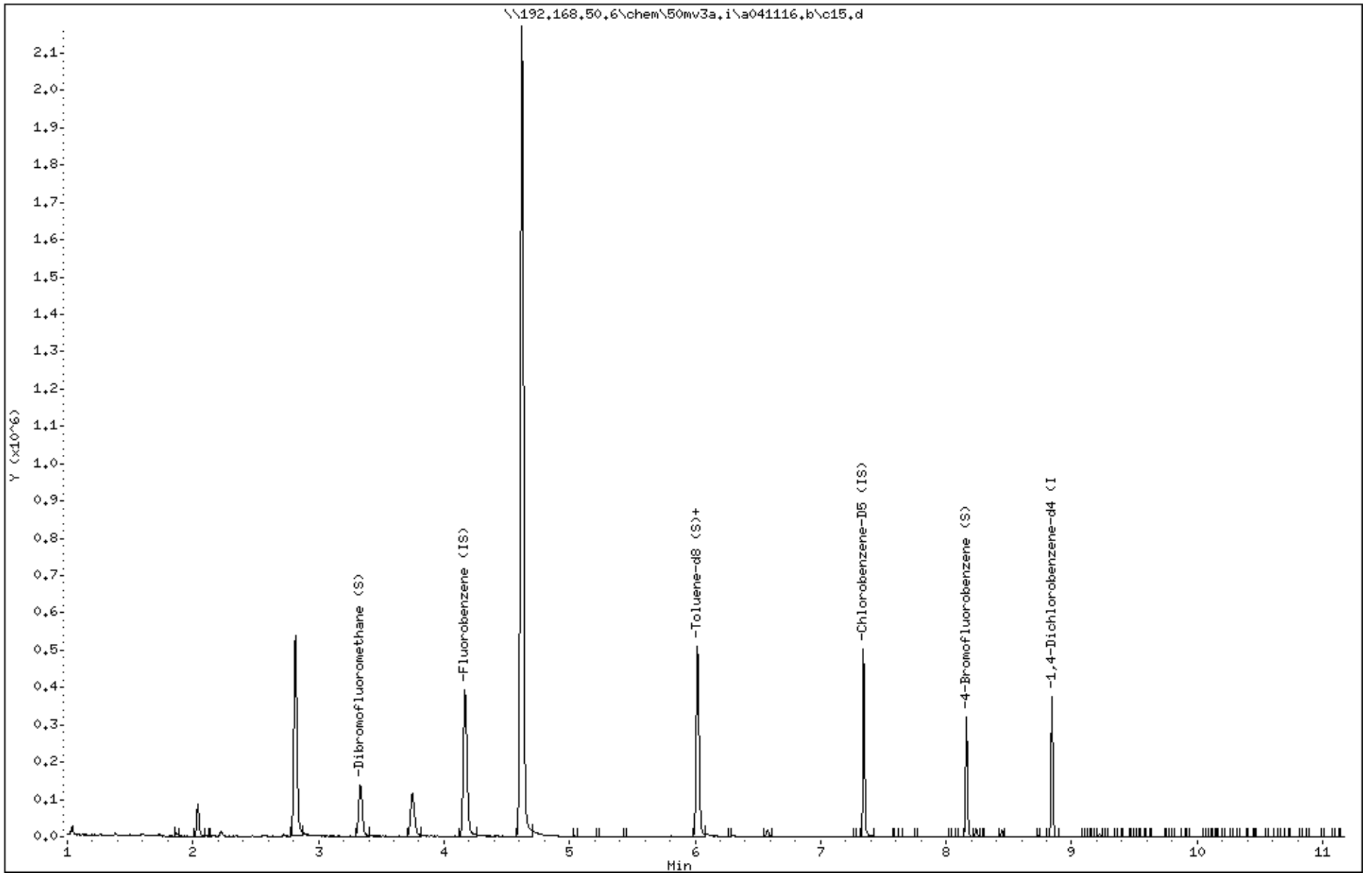
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.039	1.033	(0.250)	12540	3.85762	38.6	
	18 Methylene Chloride	84	1.867	1.861	(0.449)	1797	0.91843	9.18	
	22 1,2-Dichloroethene (trans)	96	2.038	2.038	(0.490)	20600	9.76210	97.6	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	216289	103.201	1030	
$	35 Dibromofluoromethane (S)	113	3.336	3.330	(0.801)	88246	51.2014	51.2	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	382515	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.109)	688476	355.104	3550	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	297011	49.5266	49.5	
	57 Toluene	91	6.092	6.091	(0.830)	3081	0.40075	4.01	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	174561	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	61803	42.8499	42.8	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.837	8.842	(1.000)	57721	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d
Date : 12-APR-2016 06:26
Client ID: MW-0604-S1(033016)P
Sample Info: 50141666015x10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

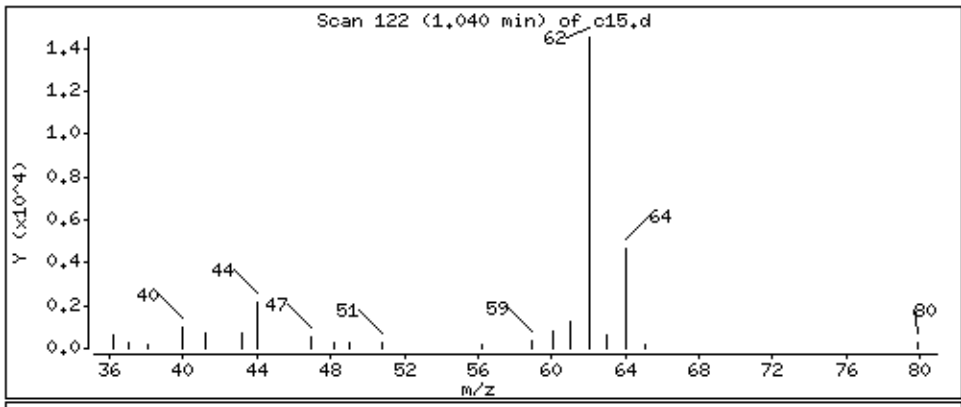
Column phase: DB-624

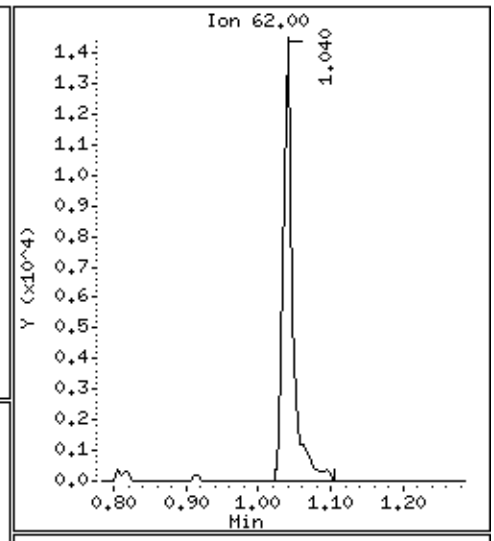
Column diameter: 0.18

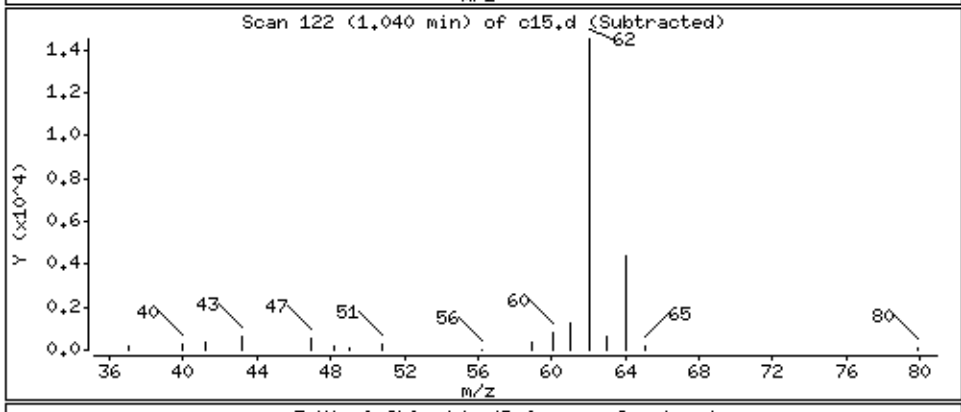
3 Vinyl Chloride

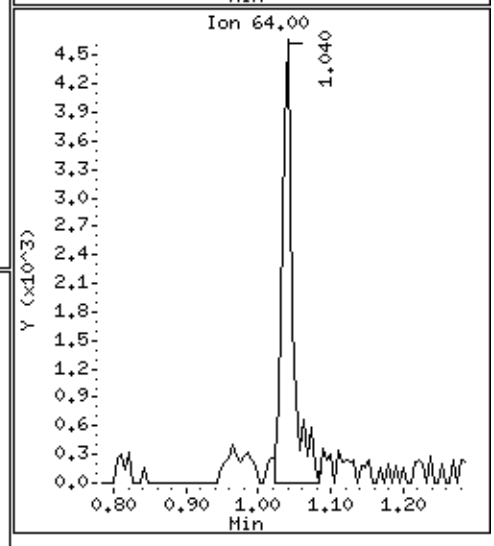
Concentration: 38.6 ppb

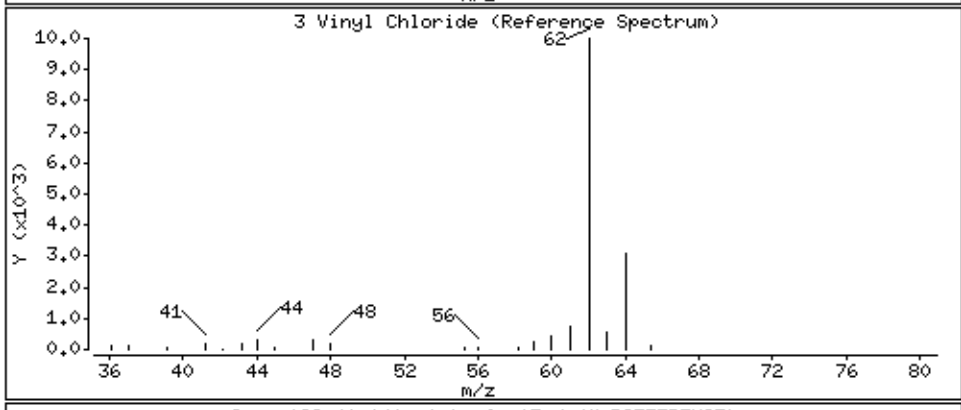
Review Code:

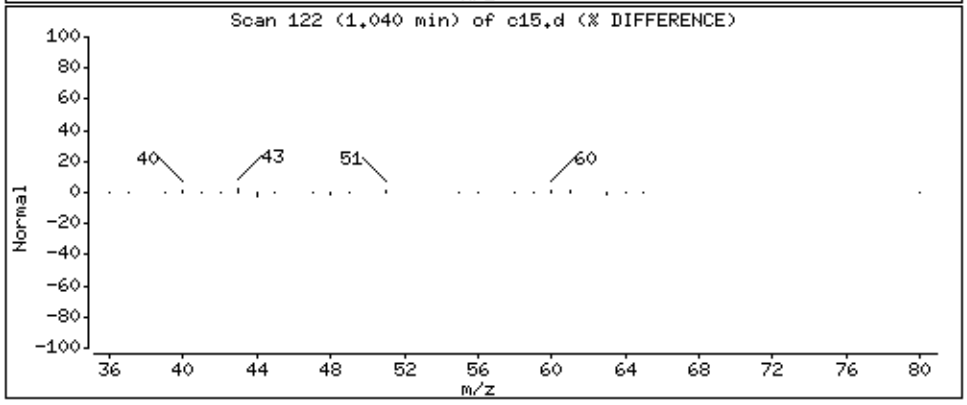












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

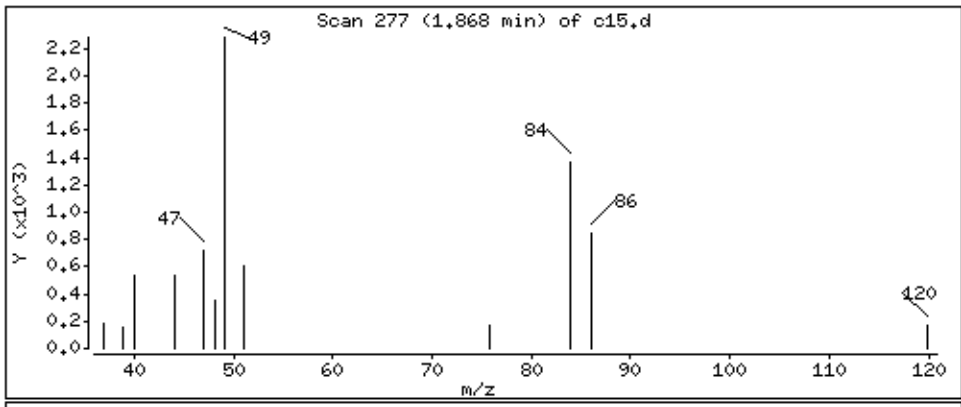
Column phase: DB-624

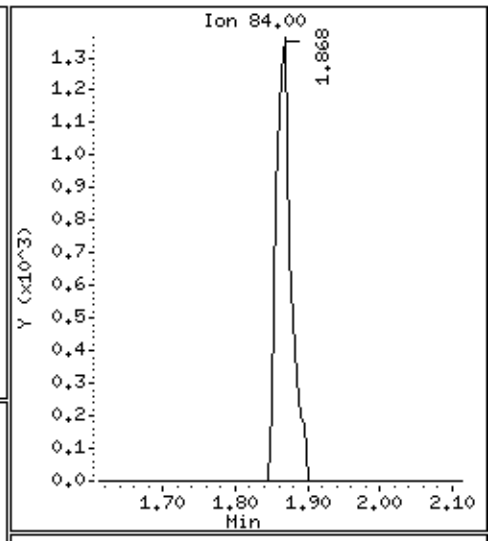
Column diameter: 0.18

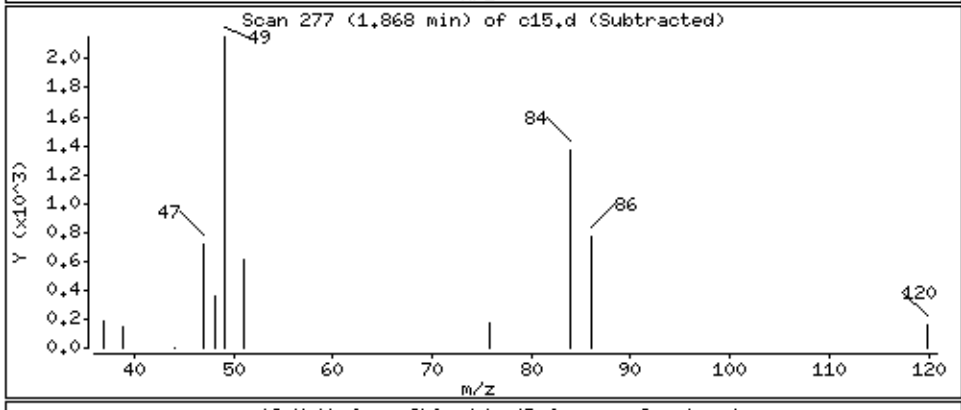
18 Methylene Chloride

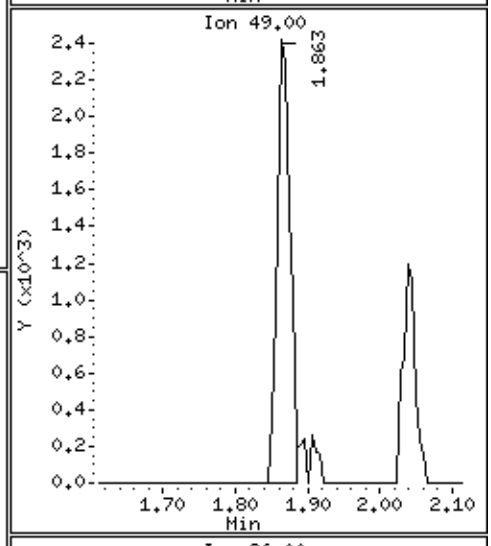
Concentration: 9.18 ppb

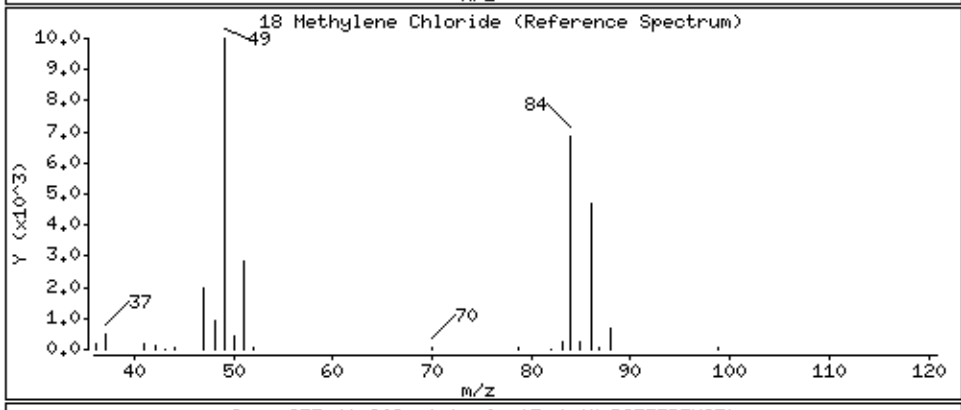
Review Code:

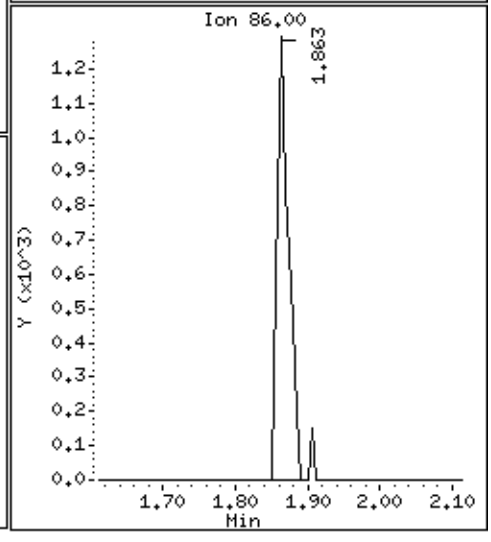


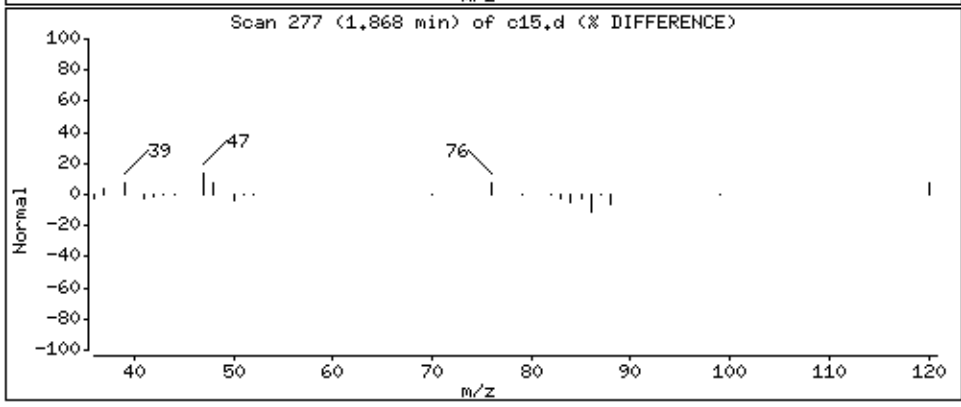












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

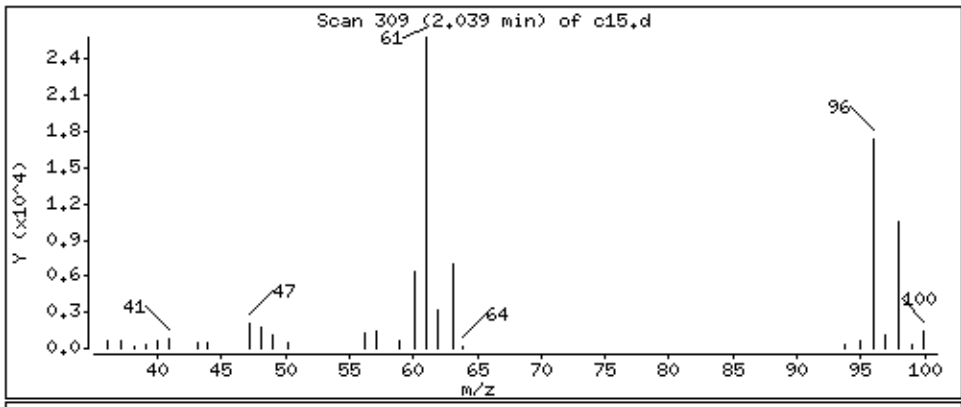
Column phase: DB-624

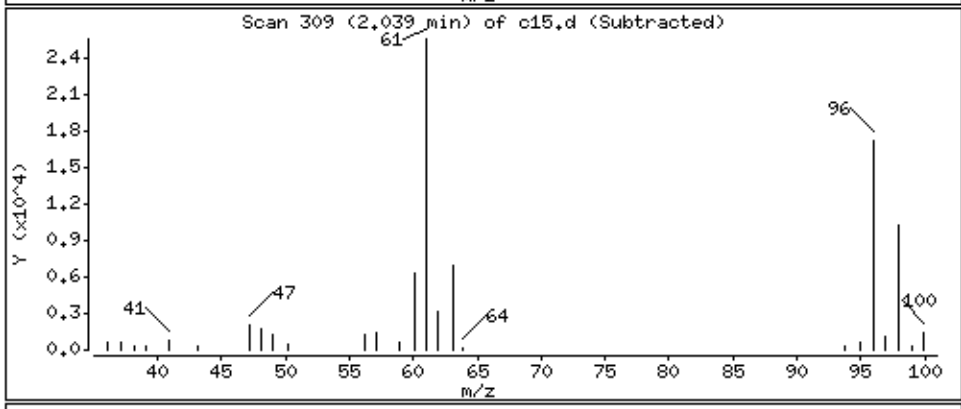
Column diameter: 0.18

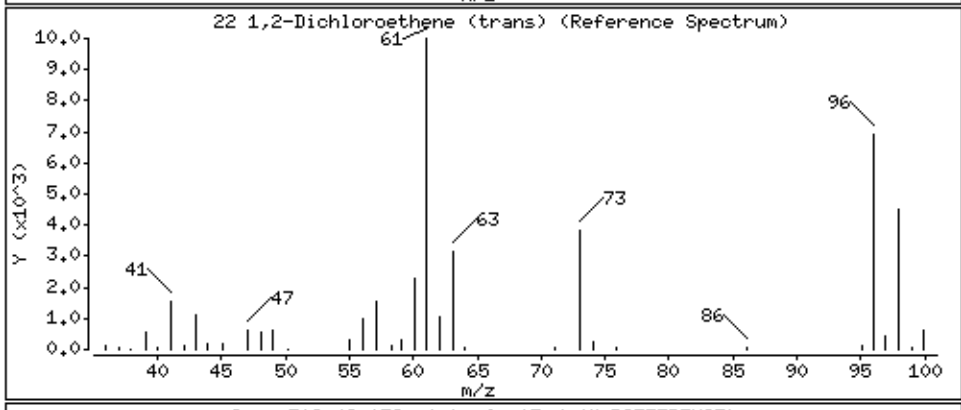
22 1,2-Dichloroethene (trans)

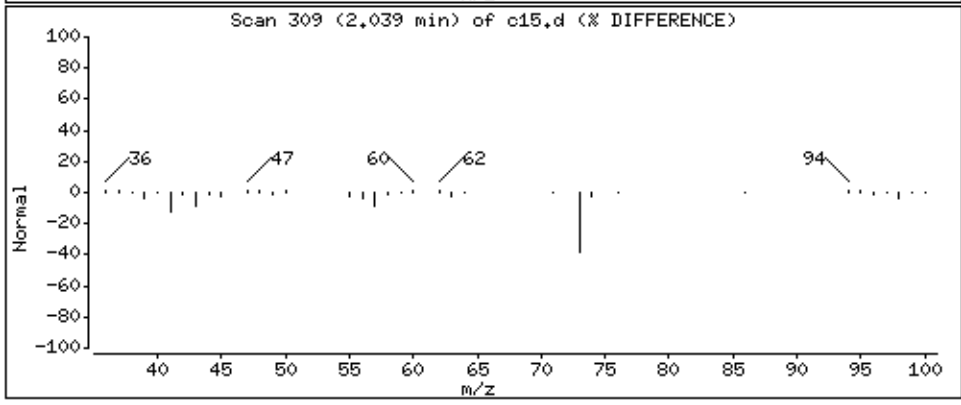
Concentration: 97.6 ppb

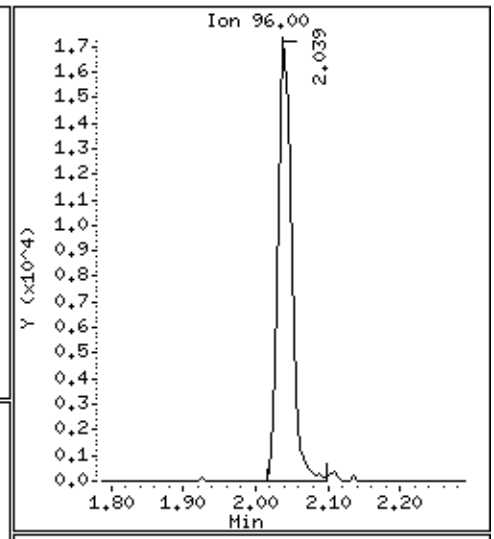
Review Code:

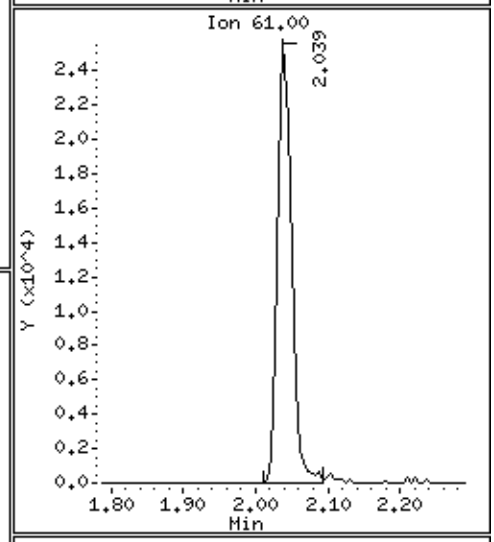


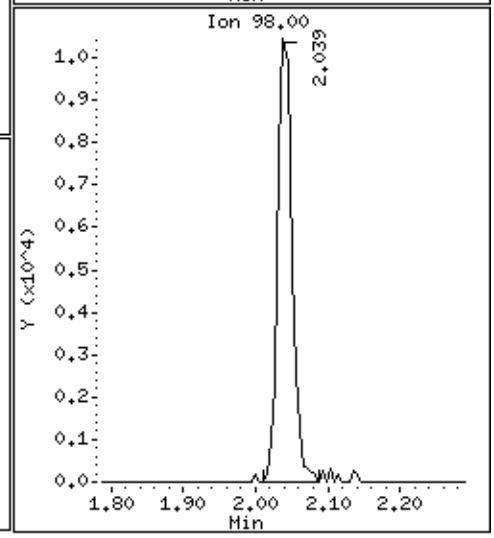












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

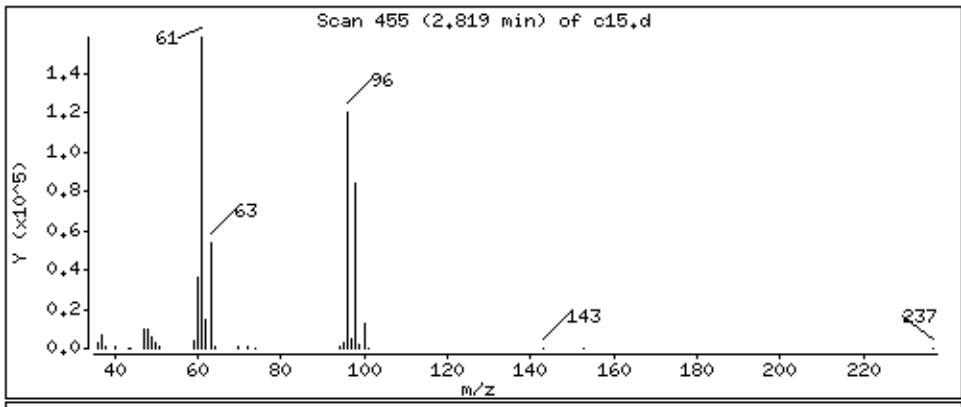
Column phase: DB-624

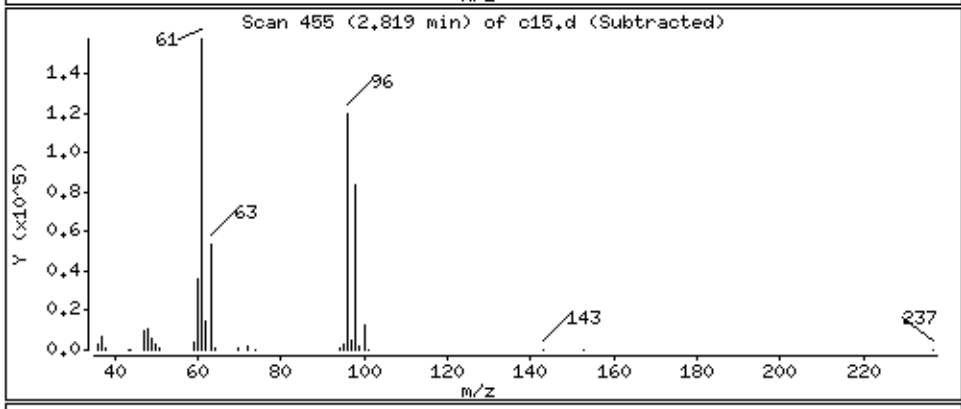
Column diameter: 0.18

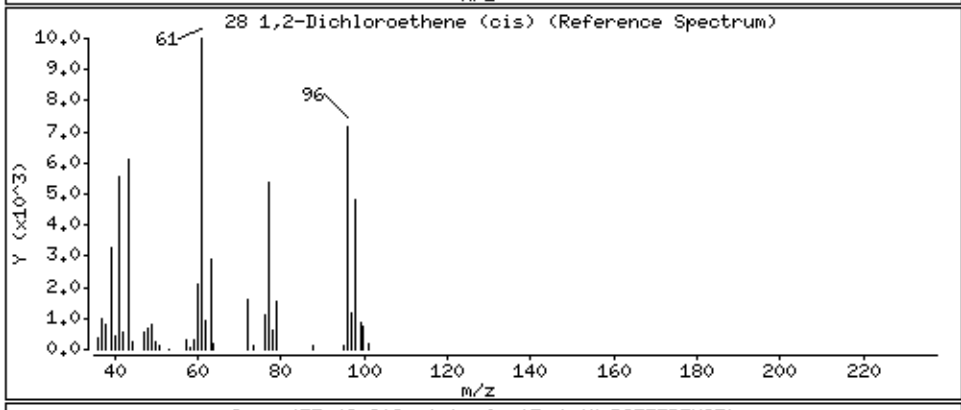
28 1,2-Dichloroethene (cis)

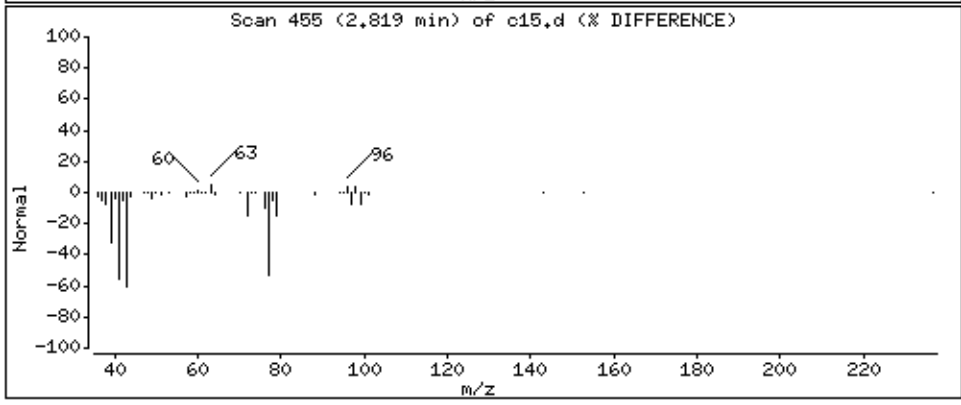
Concentration: 1030 ppb

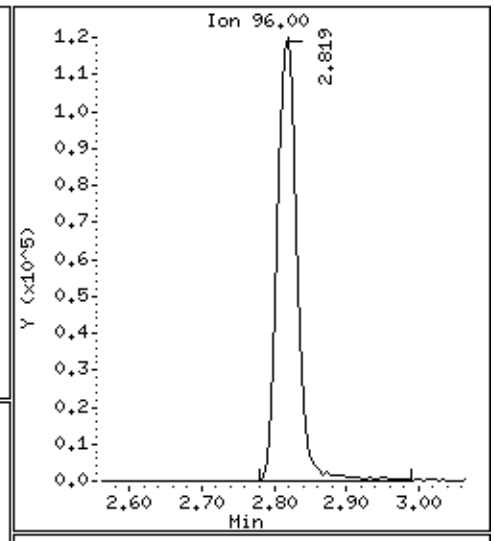
Review Code:

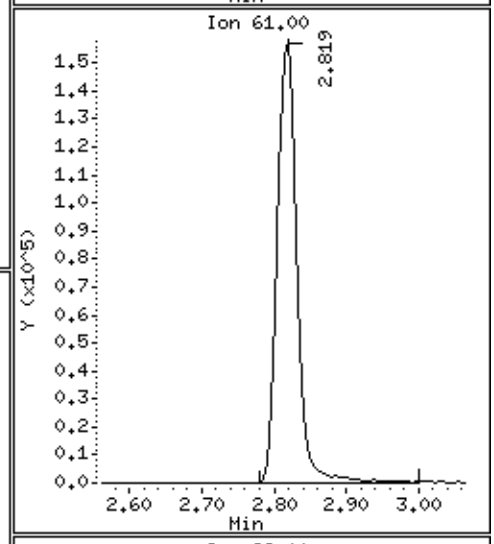


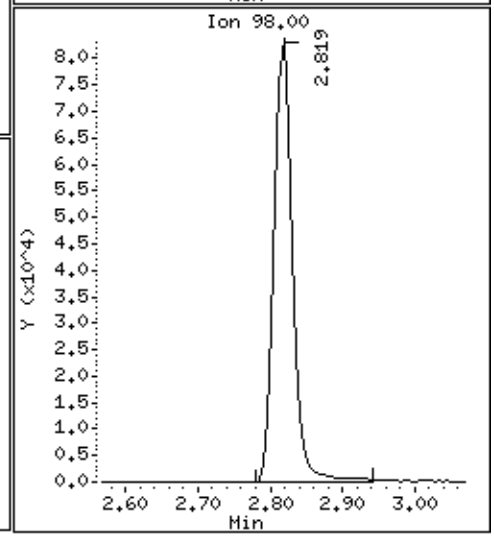












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

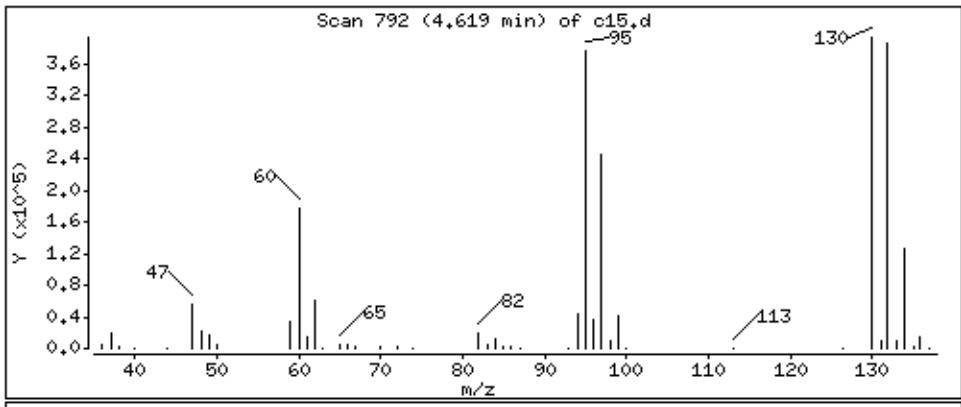
Column phase: DB-624

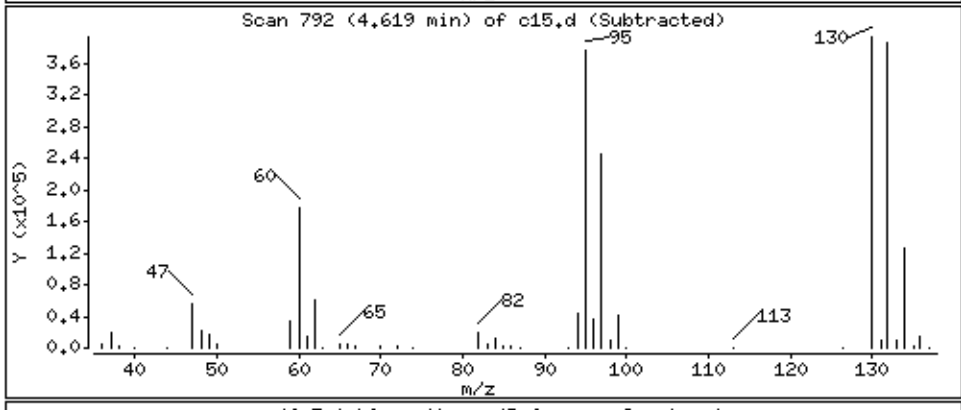
Column diameter: 0.18

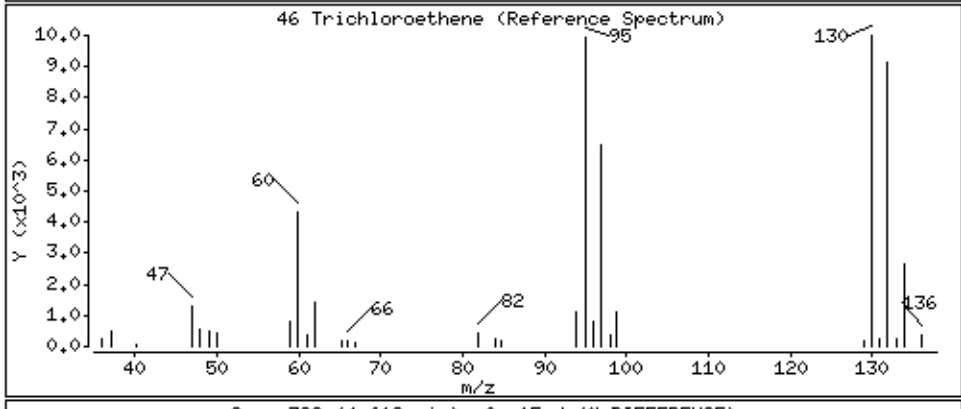
46 Trichloroethene

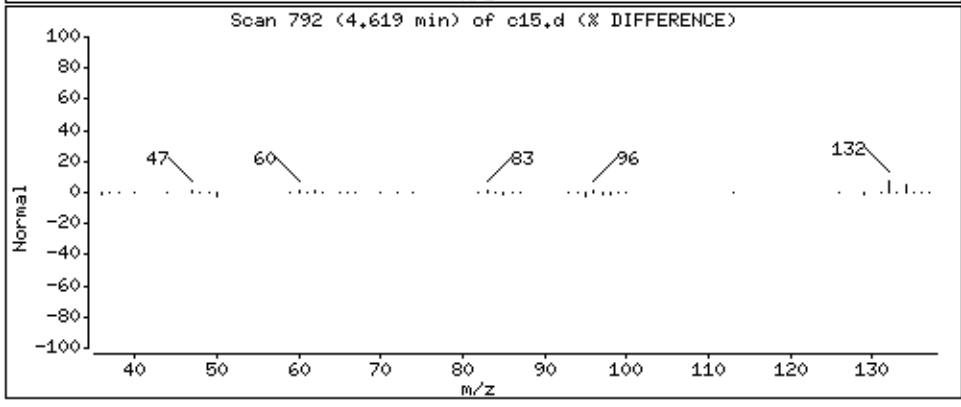
Concentration: 3550 ppb

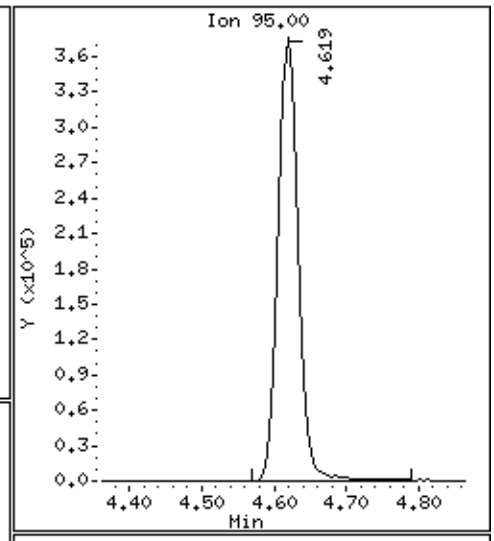
Review Code:

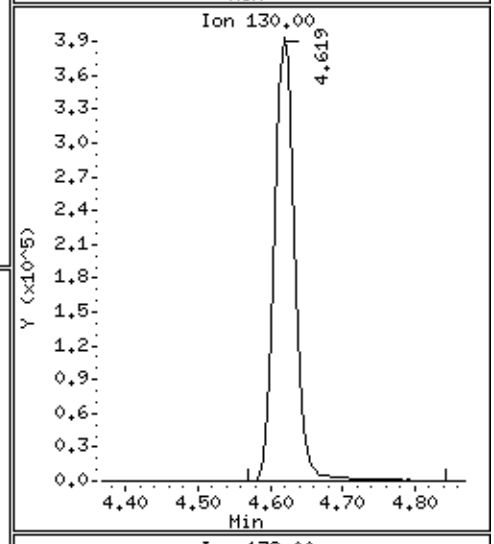


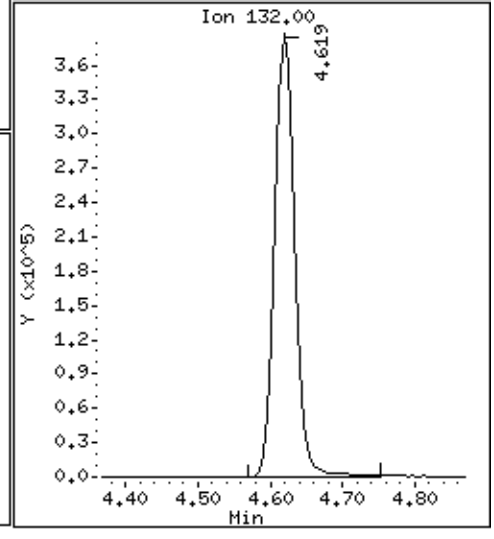












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c15.d

Date : 12-APR-2016 06:26

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x10

Purge Volume: 5.0

Operator: jlz

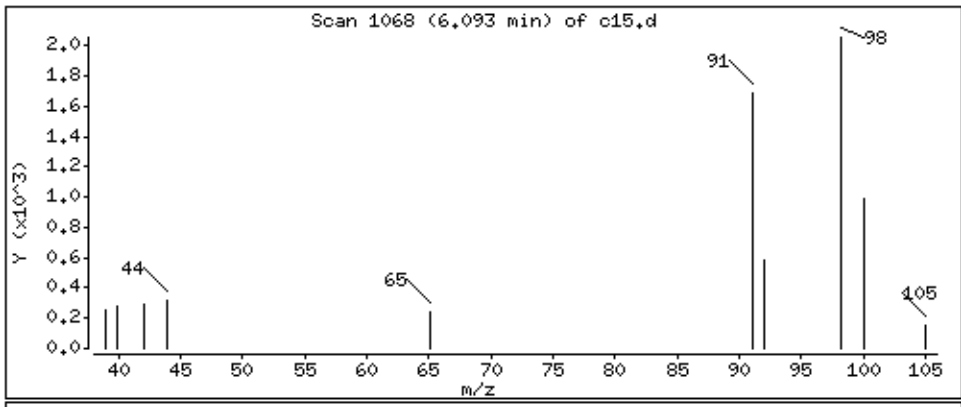
Column phase: DB-624

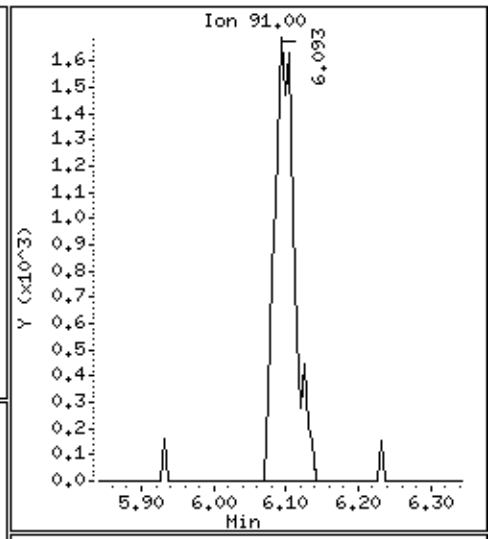
Column diameter: 0.18

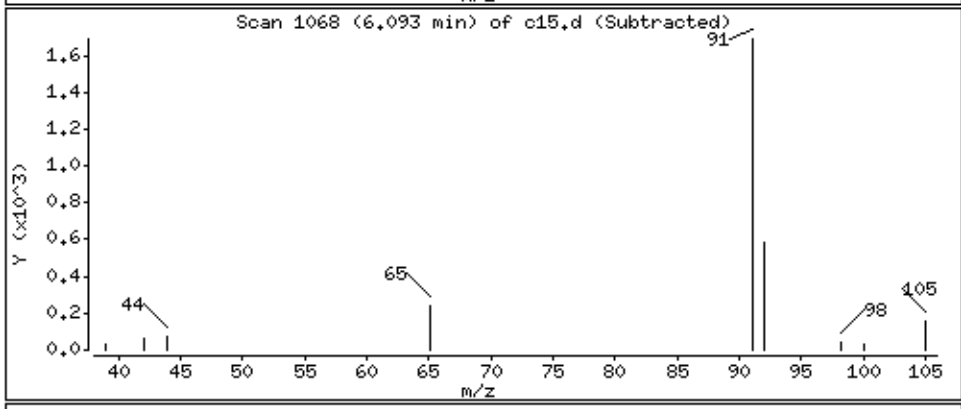
57 Toluene

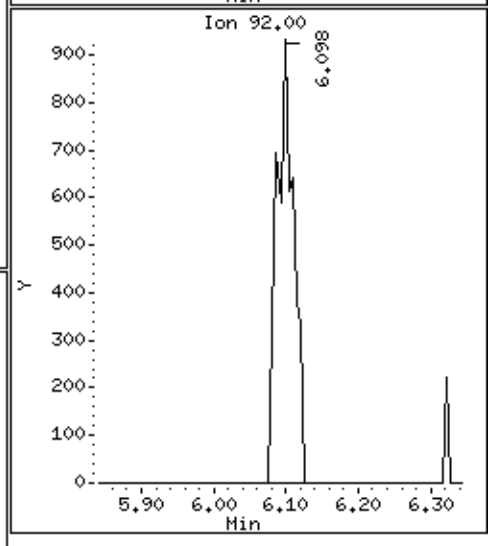
Concentration: 4.01 ppb

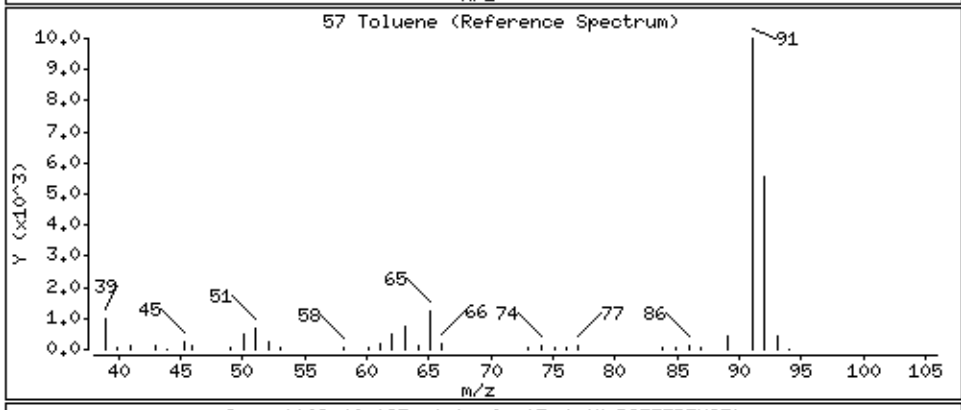
Review Code:

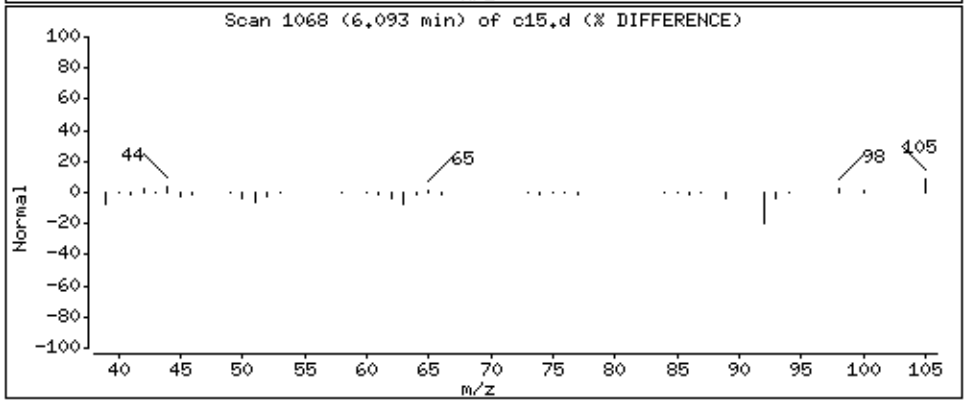












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c15.d
Injection Date: 12-APR-2016 06:26
Instrument: 50mv3a.i
Lab Sample ID: 50141666015
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0604-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/13/2016 01:48 Lab Sample ID: 50141666015

Date Analyzed: 04/13/2016 01:48 Lab File ID: A041216.B\G04.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 25 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	3340	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d
Lab Smp Id: 50141666015 Client Smp ID: MW-0604-S1(033016)P
Inj Date : 13-APR-2016 01:48
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666015x25
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041216.b\-a8260_a_c.m
Meth Date : 13-Apr-2016 10:48 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 51
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

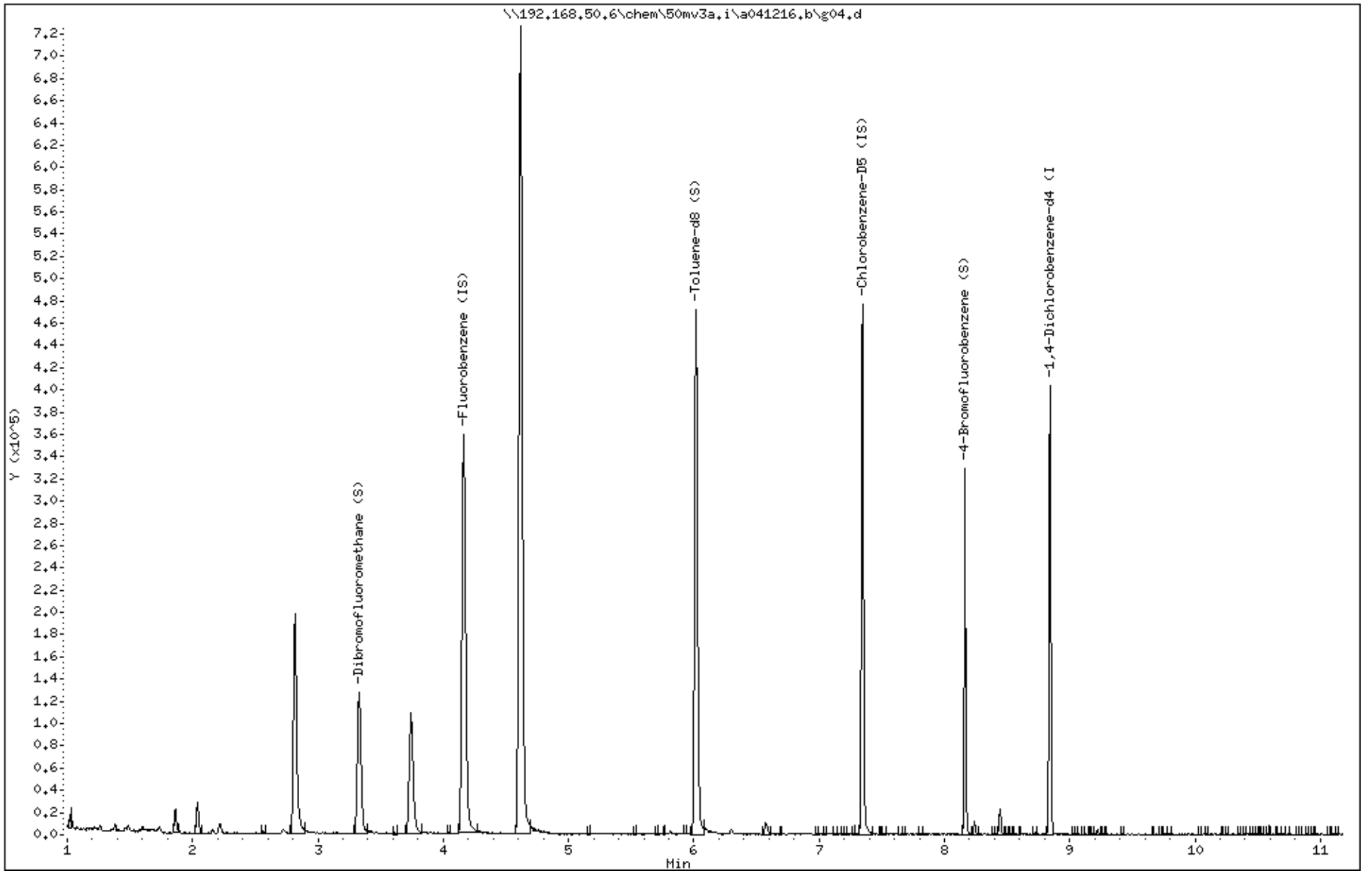
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
3 Vinyl Chloride	62	1.037	1.034	(0.249)	4580	1.52676	38.2	
18 Methylene Chloride	84	1.865	1.862	(0.448)	5907	3.27152	81.8	
22 1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	6891	3.53869	88.5	
28 1,2-Dichloroethene (cis)	96	2.816	2.813	(0.677)	79035	40.8649	1020	
$ 35 Dibromofluoromethane (S)	113	3.334	3.331	(0.801)	83866	52.7298	52.7	
* 45 Fluorobenzene (IS)	96	4.162	4.164	(1.000)	352992	50.0000		
46 Trichloroethene	95	4.616	4.618	(1.109)	239209	133.699	3340	
$ 56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	288331	48.2892	48.3	
* 66 Chlorobenzene-D5 (IS)	117	7.345	7.342	(1.000)	173802	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	61119	42.5607	42.6	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	57713	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d
Date : 13-APR-2016 01:48
Client ID: MW-0604-S1(033016)P
Sample Info: 50141666015x25
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d

Date : 13-APR-2016 01:48

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x25

Purge Volume: 5.0

Operator: jlz

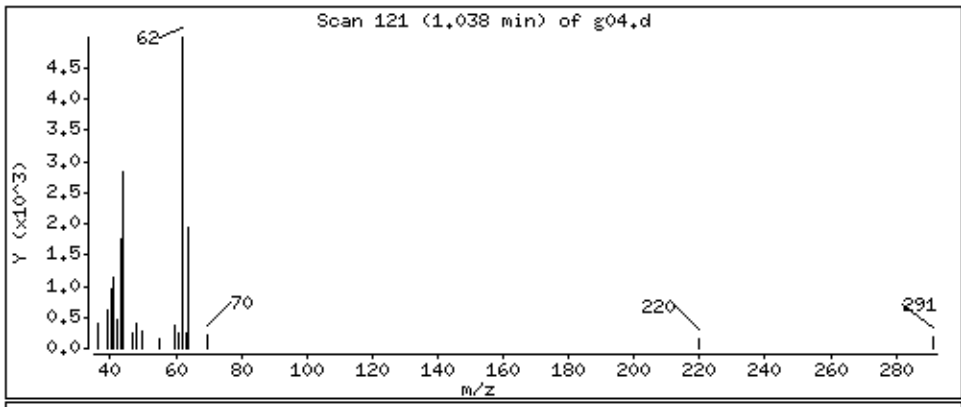
Column phase: DB-624

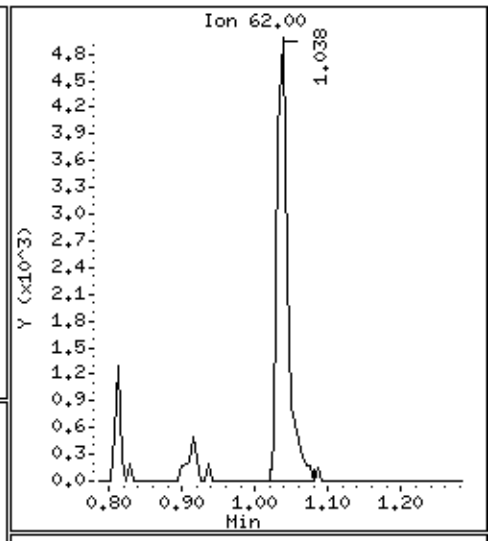
Column diameter: 0.18

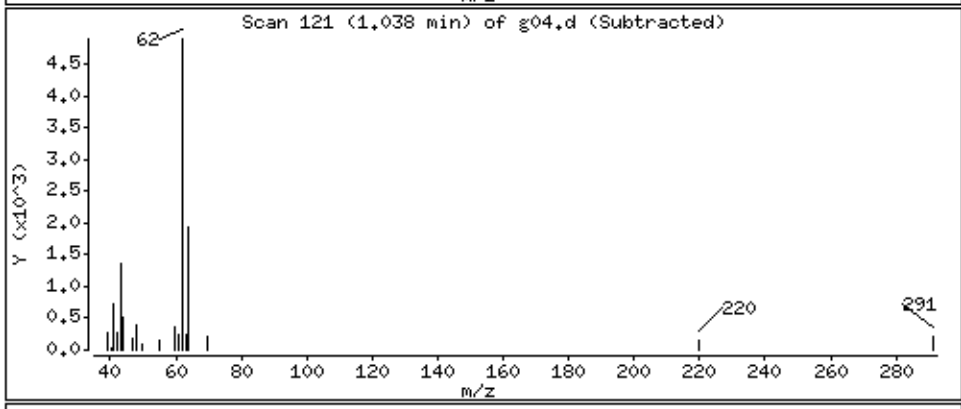
3 Vinyl Chloride

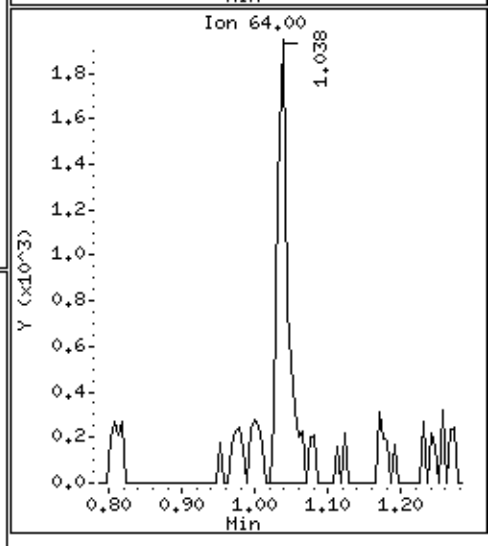
Concentration: 38.2 ppb

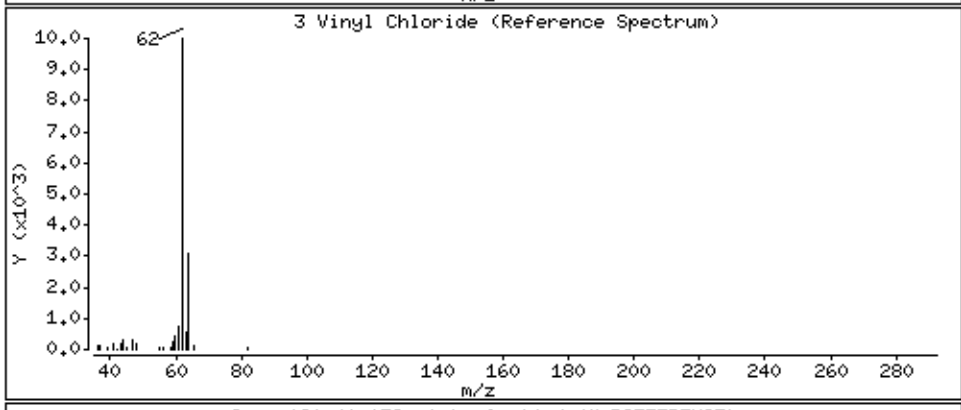
Review Code:

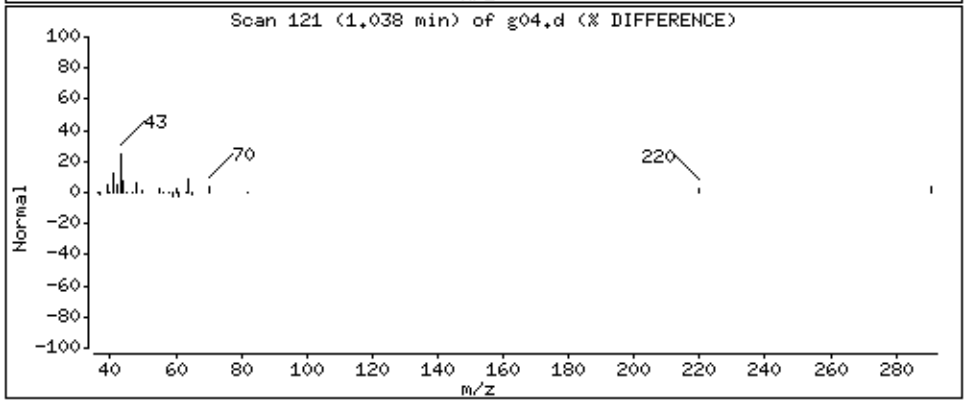












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d

Date : 13-APR-2016 01:48

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x25

Purge Volume: 5.0

Operator: jlz

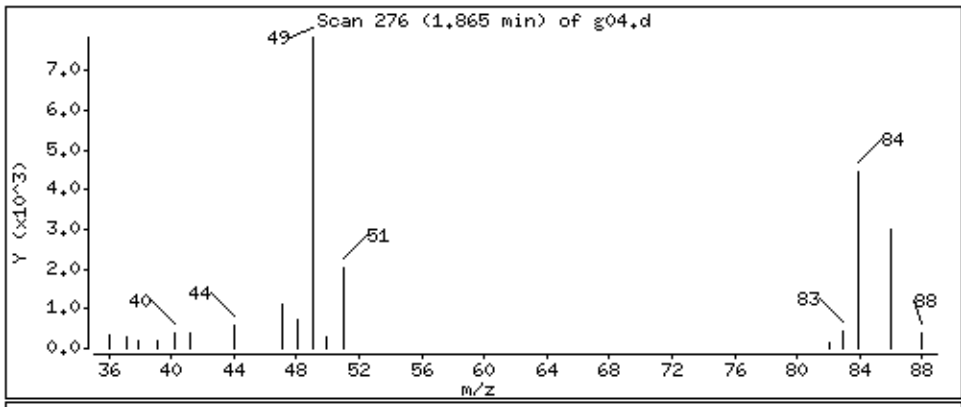
Column phase: DB-624

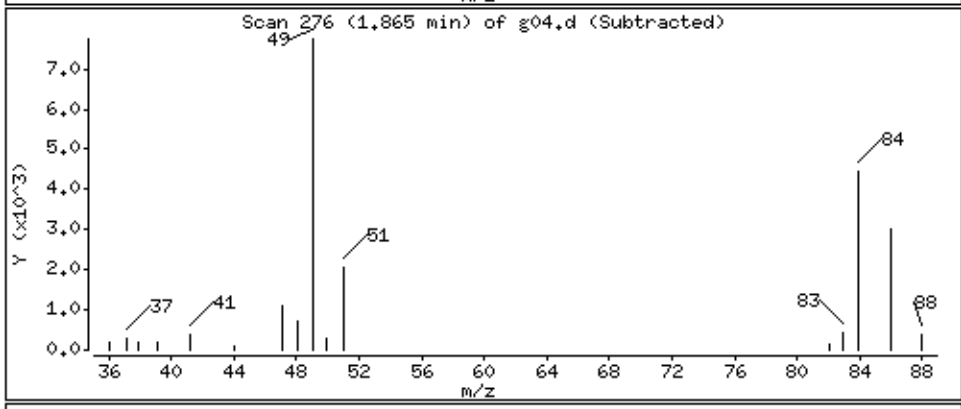
Column diameter: 0.18

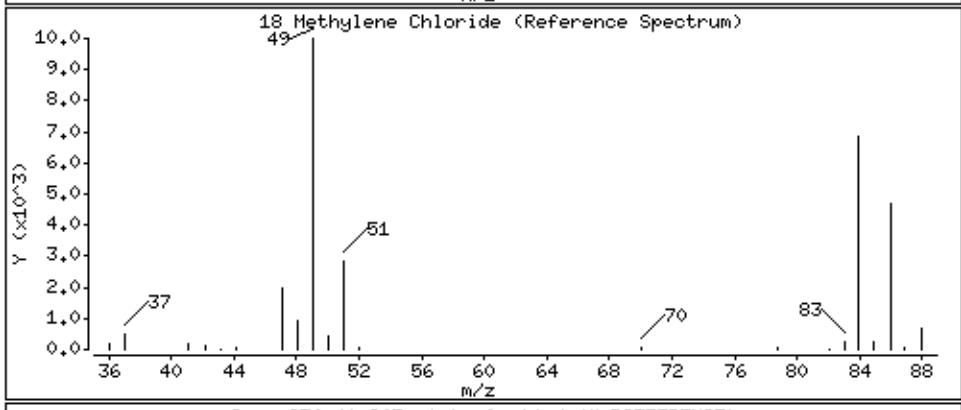
18 Methylene Chloride

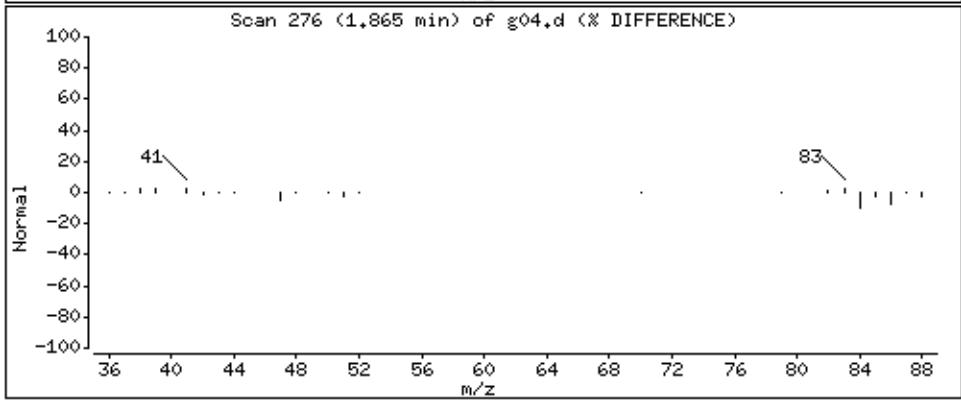
Concentration: 81.8 ppb

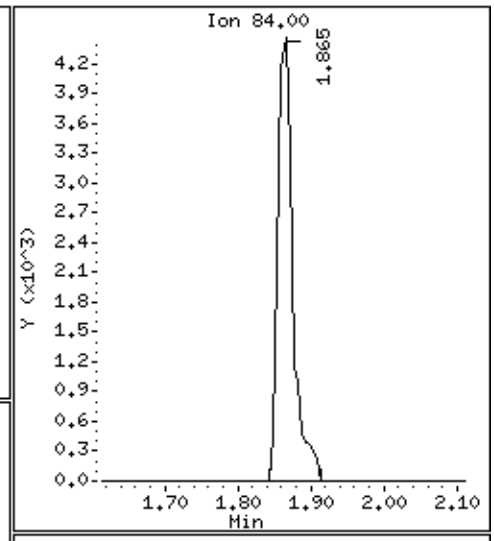
Review Code:

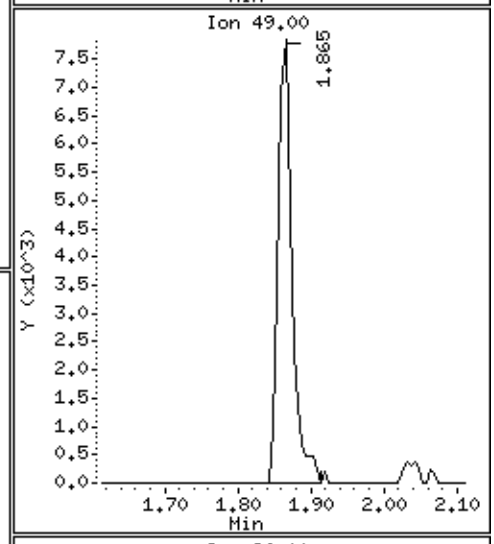


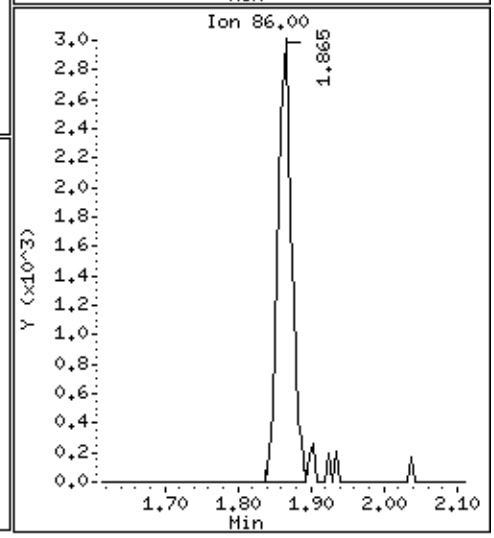












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d

Date : 13-APR-2016 01:48

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x25

Purge Volume: 5.0

Operator: jlz

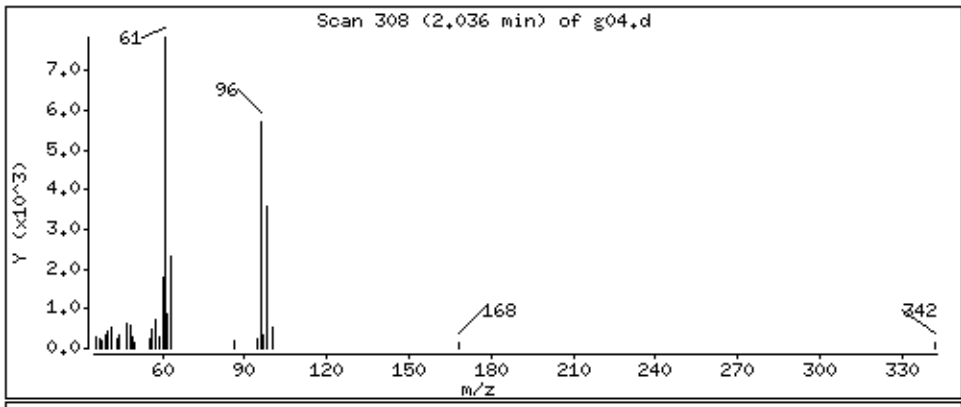
Column phase: DB-624

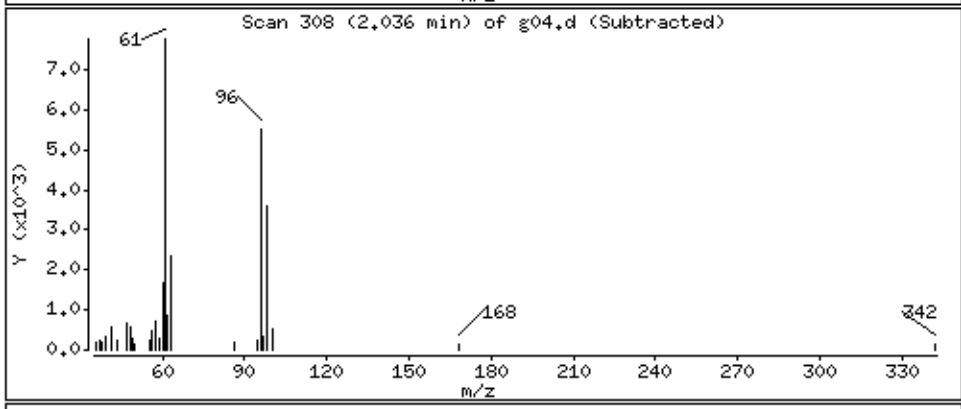
Column diameter: 0.18

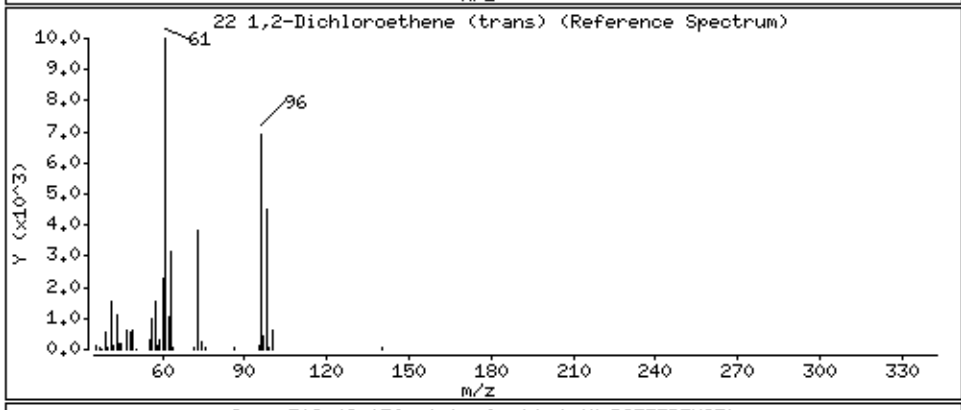
22 1,2-Dichloroethene (trans)

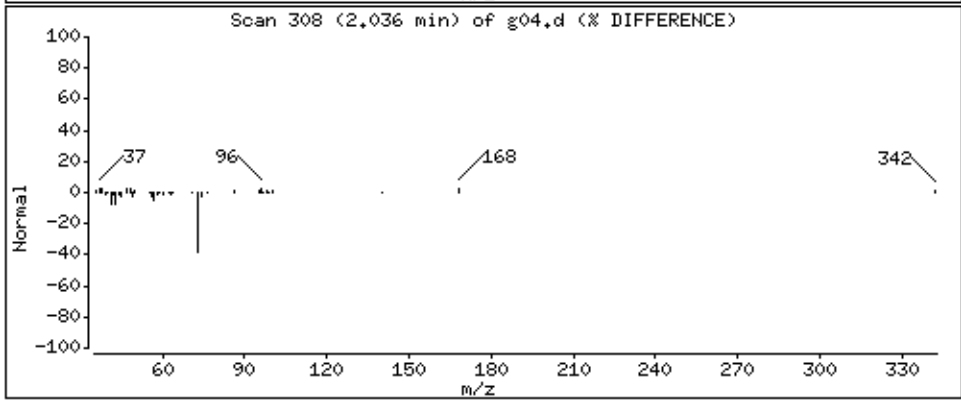
Concentration: 88.5 ppb

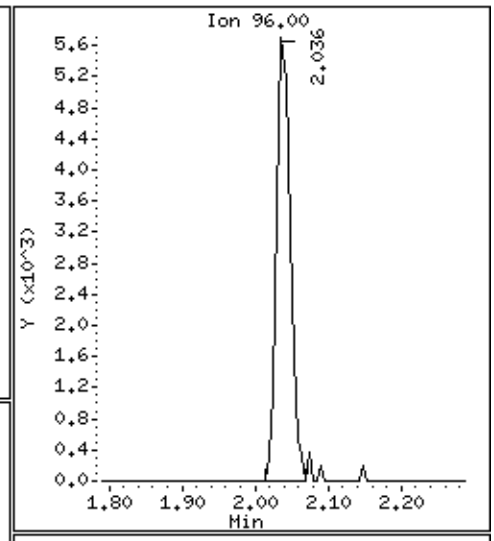
Review Code:

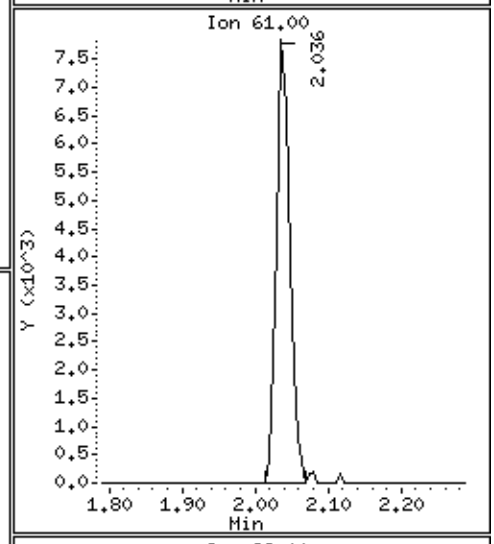


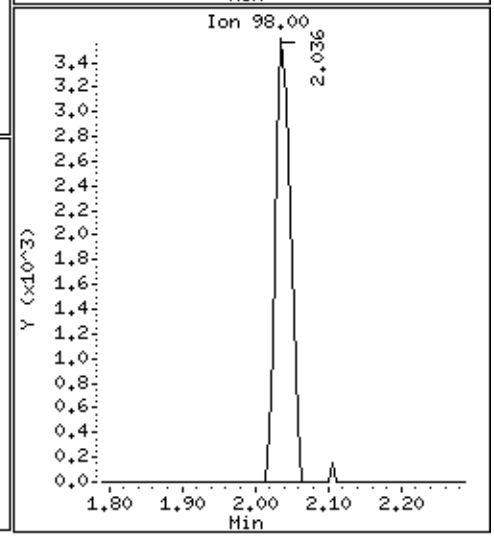












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d

Date : 13-APR-2016 01:48

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x25

Purge Volume: 5.0

Operator: jlz

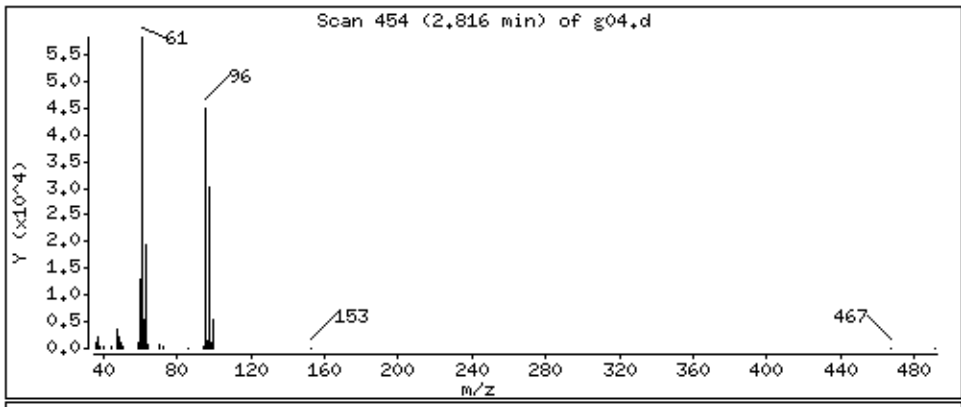
Column phase: DB-624

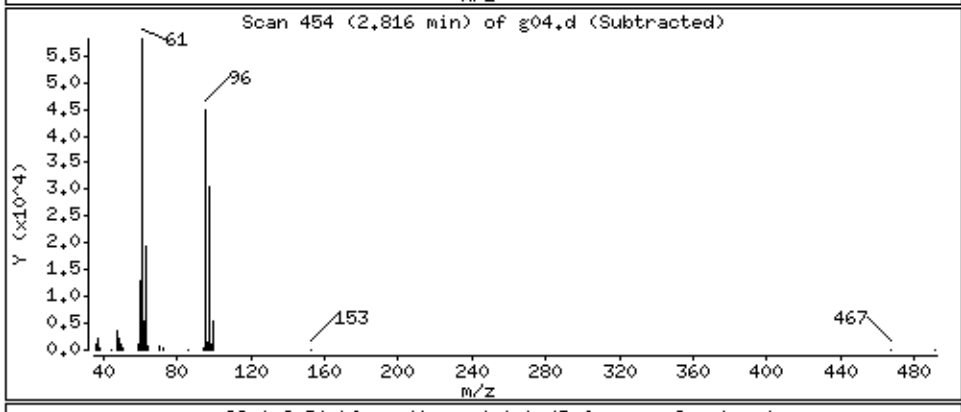
Column diameter: 0.18

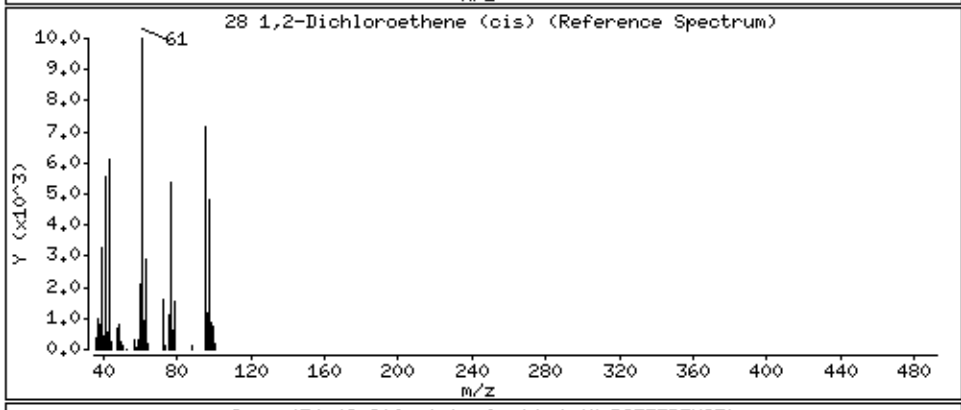
28 1,2-Dichloroethene (cis)

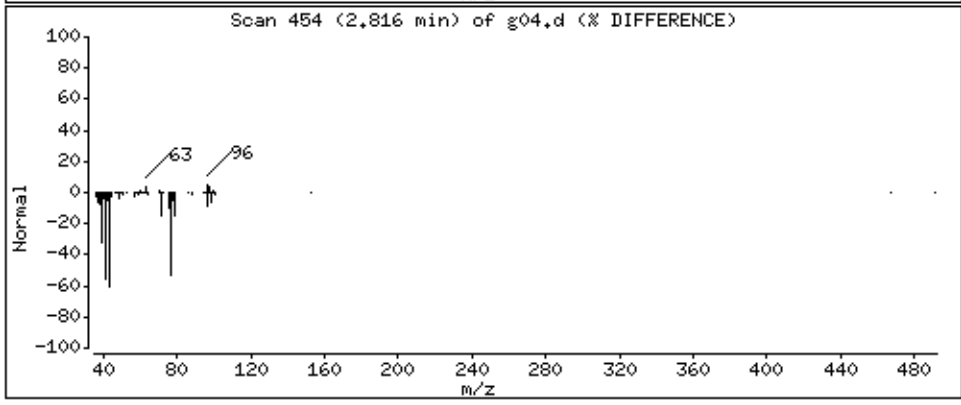
Concentration: 1020 ppb

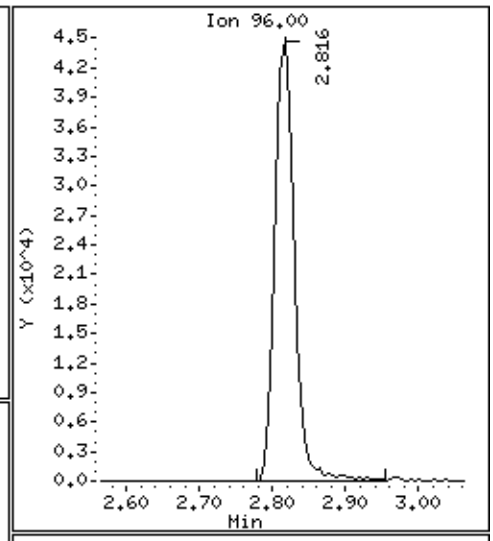
Review Code:

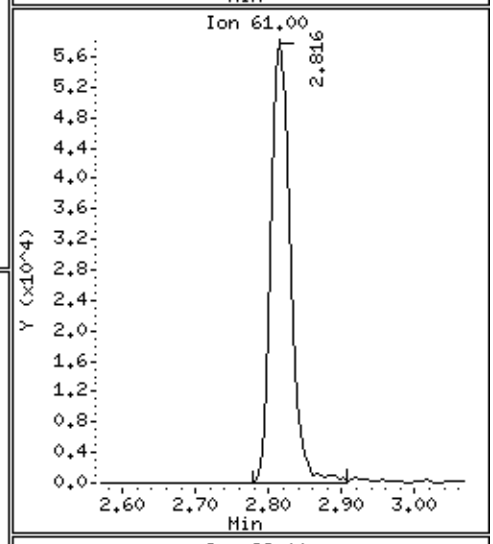


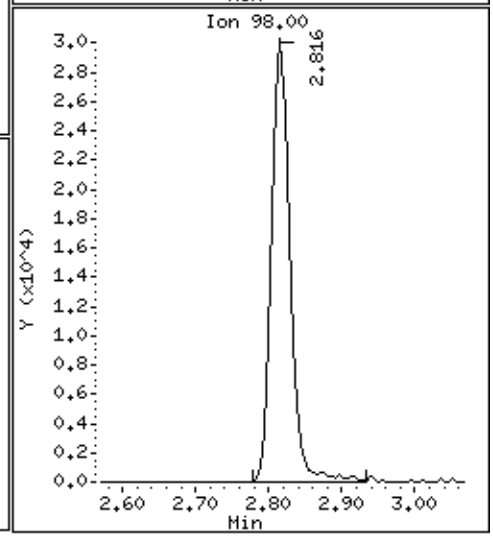












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g04.d

Date : 13-APR-2016 01:48

Client ID: MW-0604-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666015x25

Purge Volume: 5.0

Operator: jlz

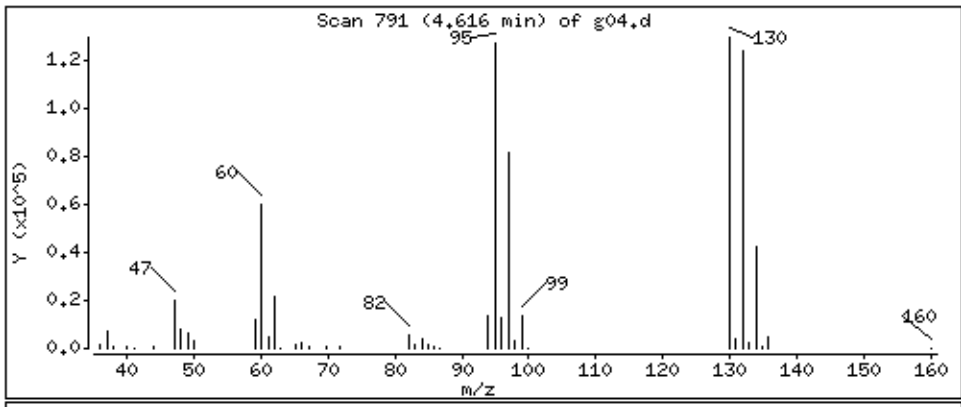
Column phase: DB-624

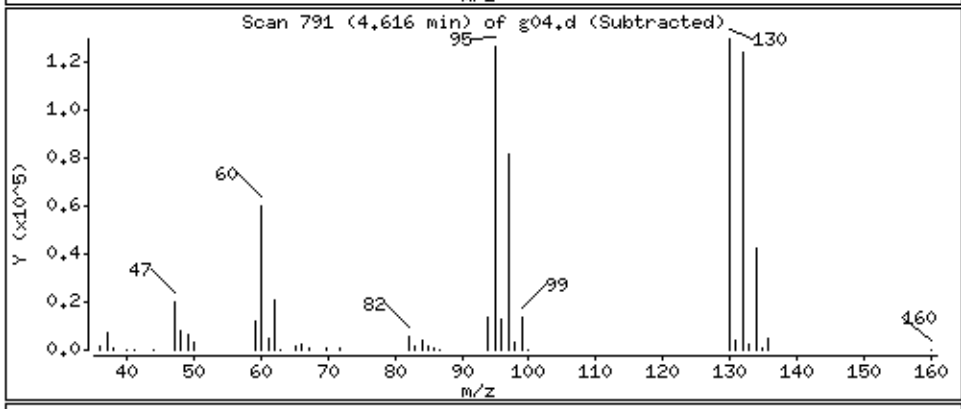
Column diameter: 0.18

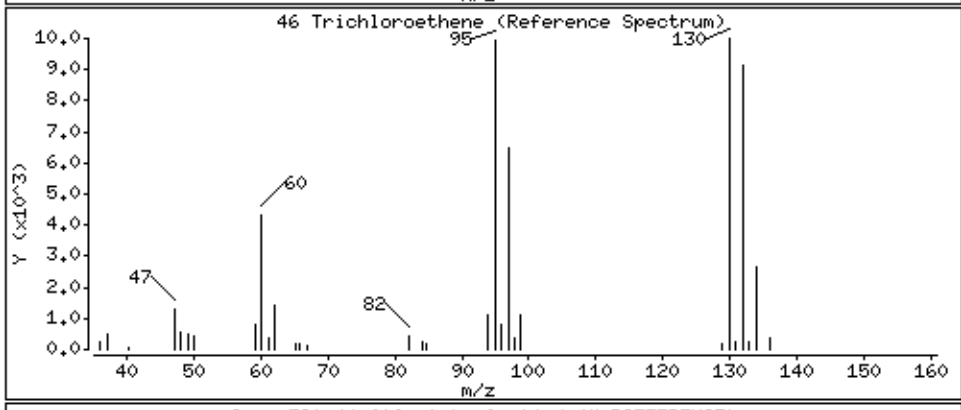
46 Trichloroethene

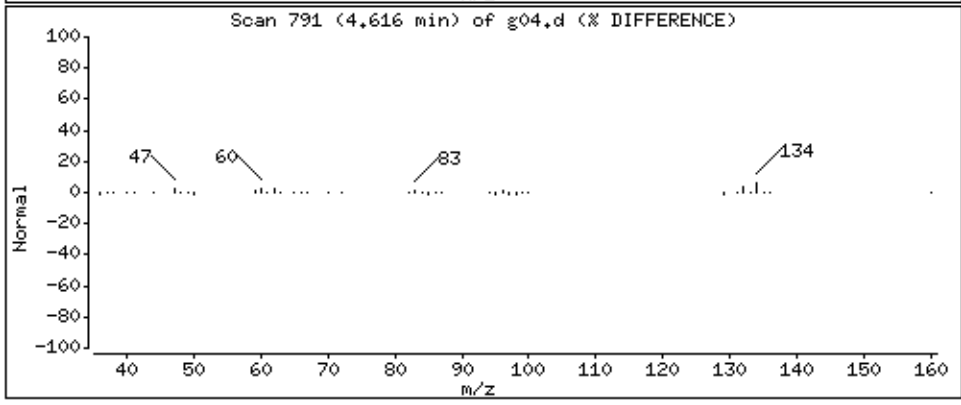
Concentration: 3340 ppb

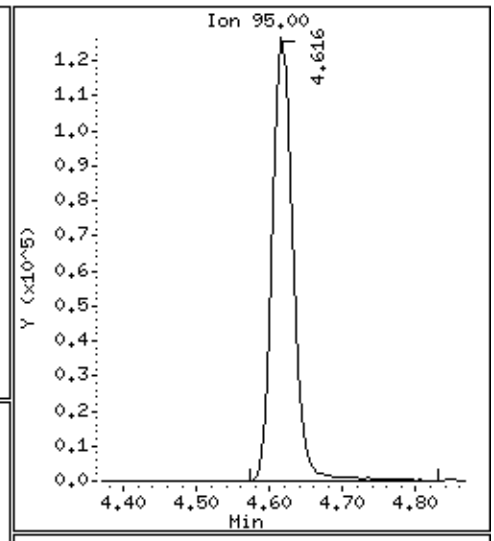
Review Code:

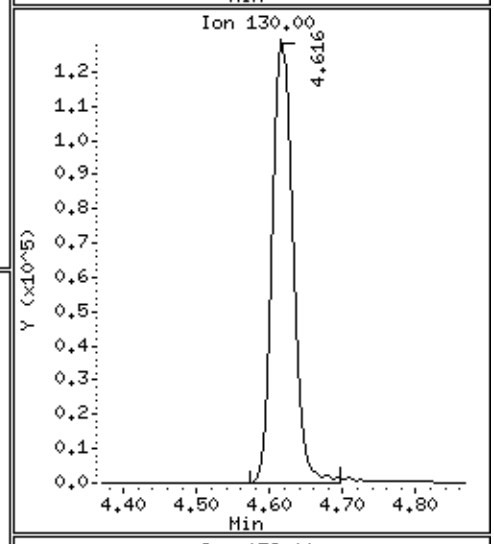


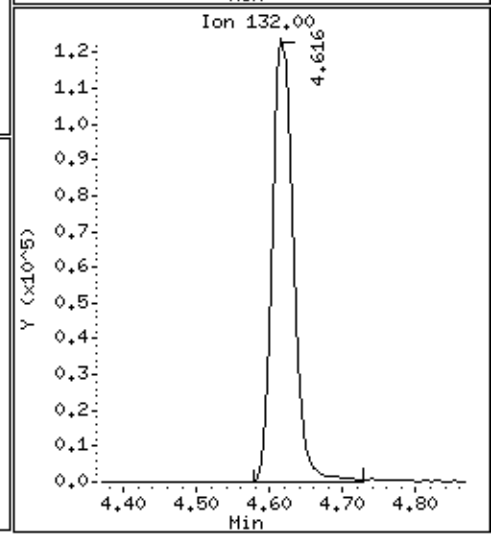












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b/g04.d
Injection Date: 13-APR-2016 01:48
Instrument: 50mv3a.i
Lab Sample ID: 50141666015
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0605-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 06:58 Lab Sample ID: 50141666016

Date Analyzed: 04/12/2016 06:58 Lab File ID: A041116.B\C16.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	14.7	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0605-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 06:58 Lab Sample ID: 50141666016

Date Analyzed: 04/12/2016 06:58 Lab File ID: A041116.B\C16.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d
Lab Smp Id: 50141666016 Client Smp ID: MW-0605-S1(033016)P
Inj Date : 12-APR-2016 06:58
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666016
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 79
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

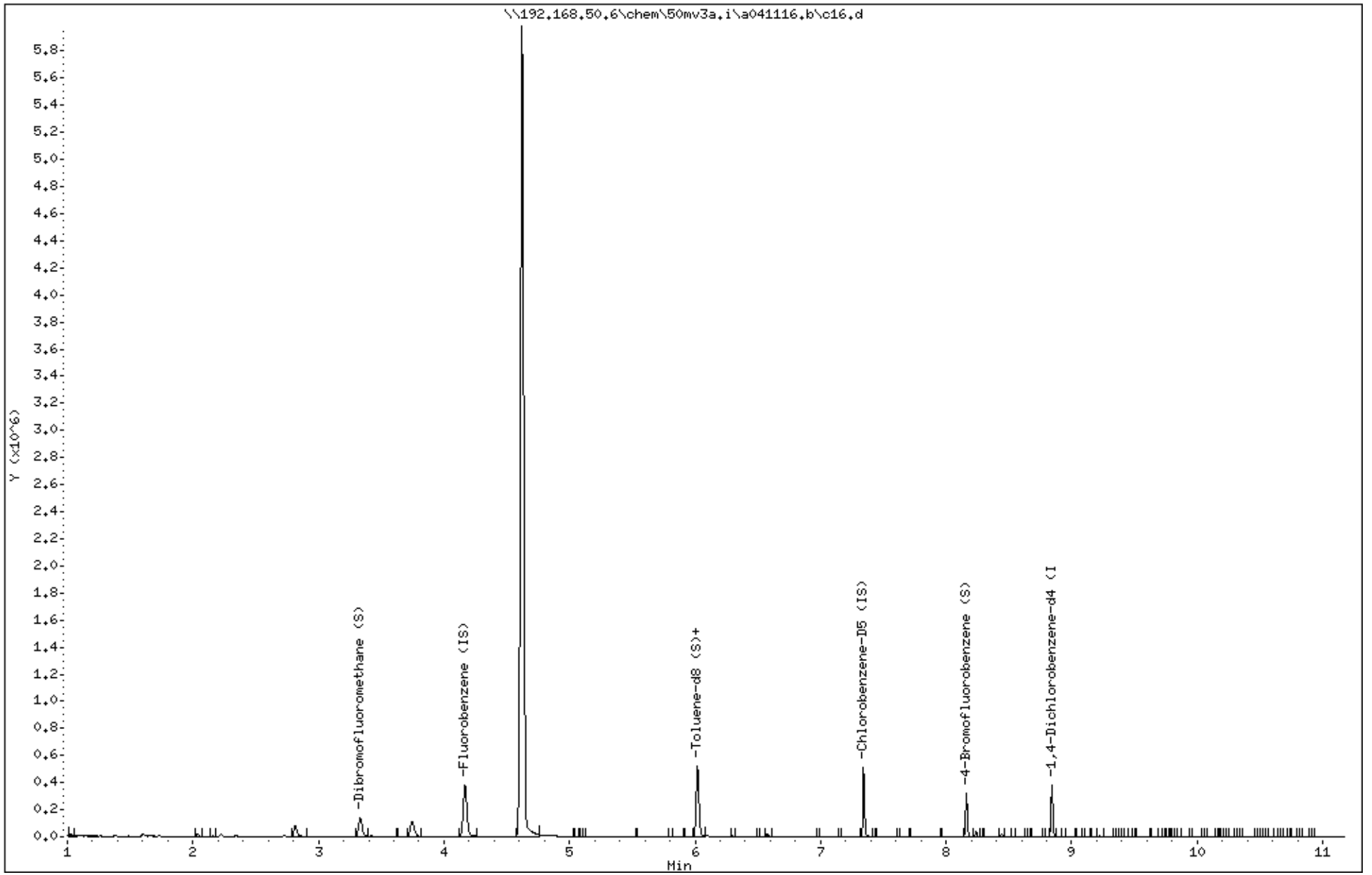
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.611	1.605	(0.387)	22835	48.4915	48.5	
	22 1,2-Dichloroethene (trans)	96	2.039	2.038	(0.490)	2389	1.16287	1.16	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	30093	14.7486	14.7	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	89717	53.4688	53.5	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	372400	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.109)	1840228	974.938	975	
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	298207	49.8285	49.8	
	57 Toluene	91	6.098	6.091	(0.831)	2495	0.32520	0.325	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	174202	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	60964	42.3553	42.4	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	58604	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d
Date : 12-APR-2016 06:58
Client ID: MW-0605-S1(033016)P
Sample Info: 50141666016
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d

Date : 12-APR-2016 06:58

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016

Purge Volume: 5.0

Operator: jlz

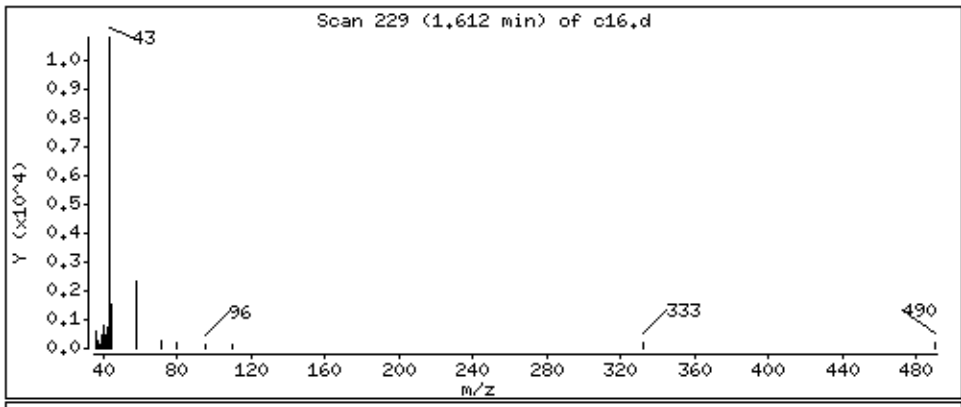
Column phase: DB-624

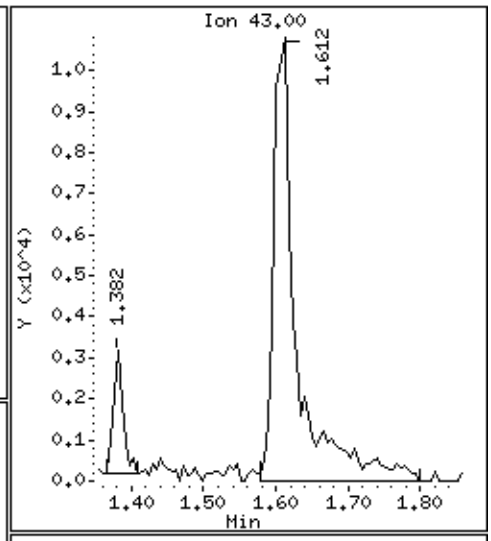
Column diameter: 0.18

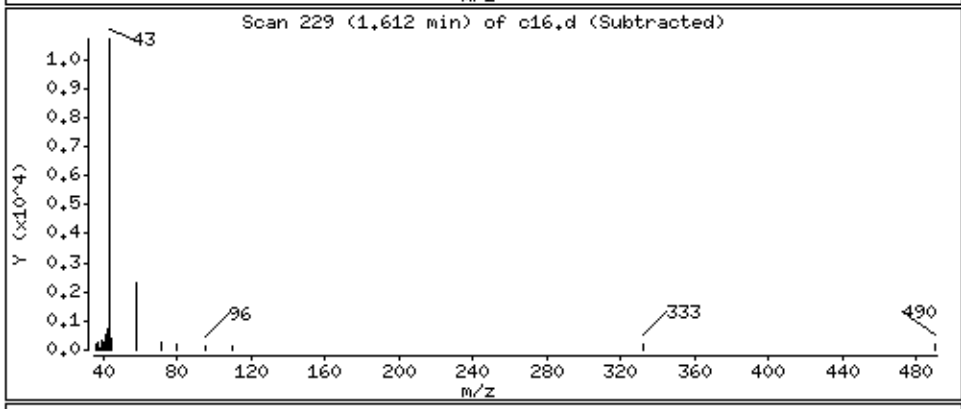
12 Acetone

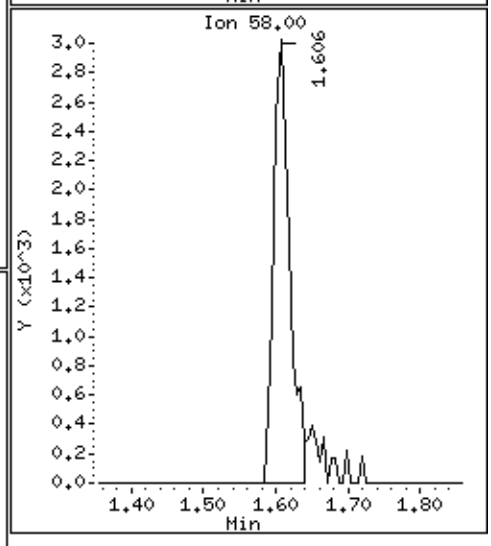
Concentration: 48.5 ppb

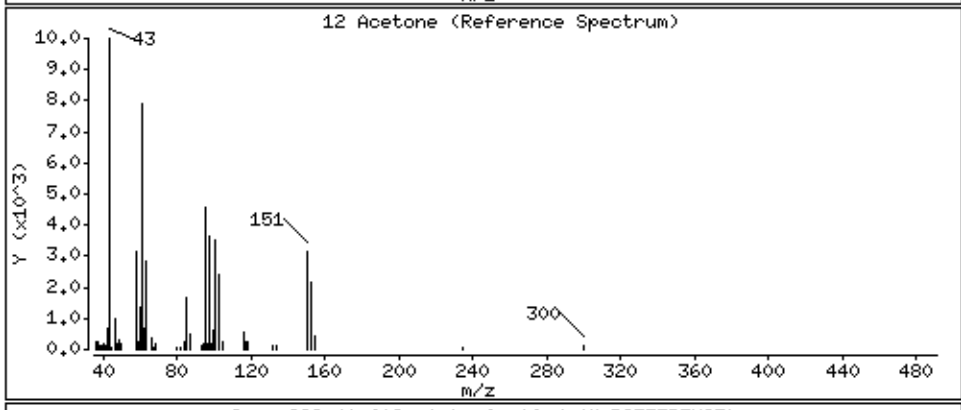
Review Code:

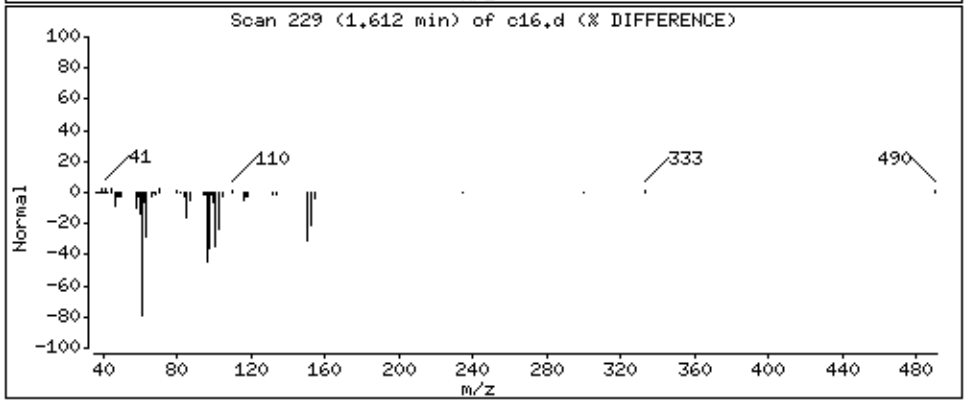












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d

Date : 12-APR-2016 06:58

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016

Purge Volume: 5.0

Operator: jlz

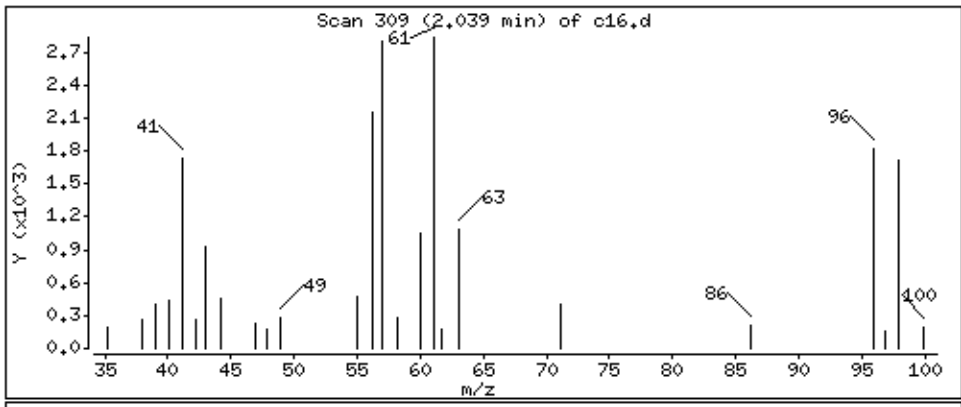
Column phase: DB-624

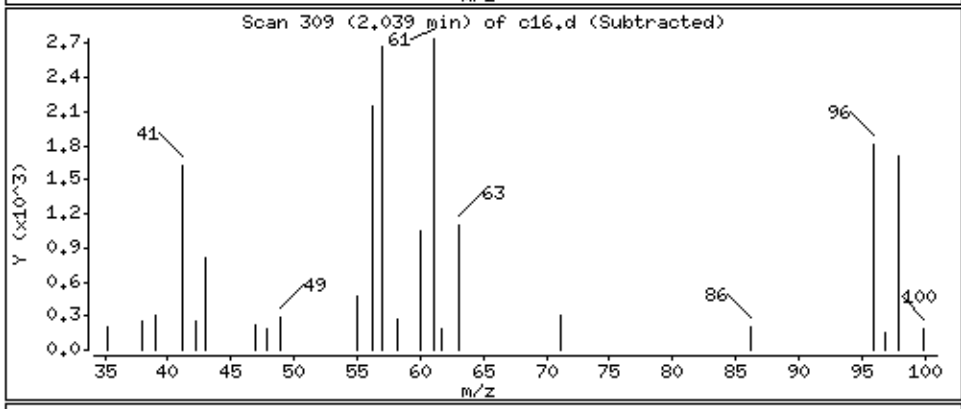
Column diameter: 0.18

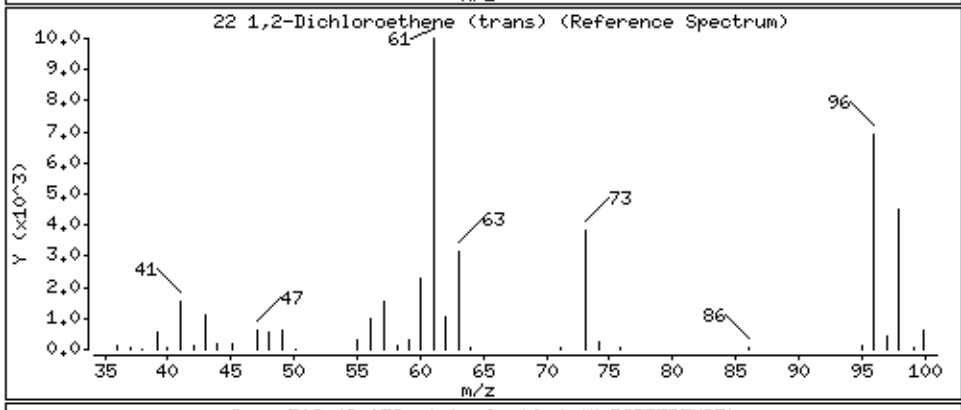
22 1,2-Dichloroethene (trans)

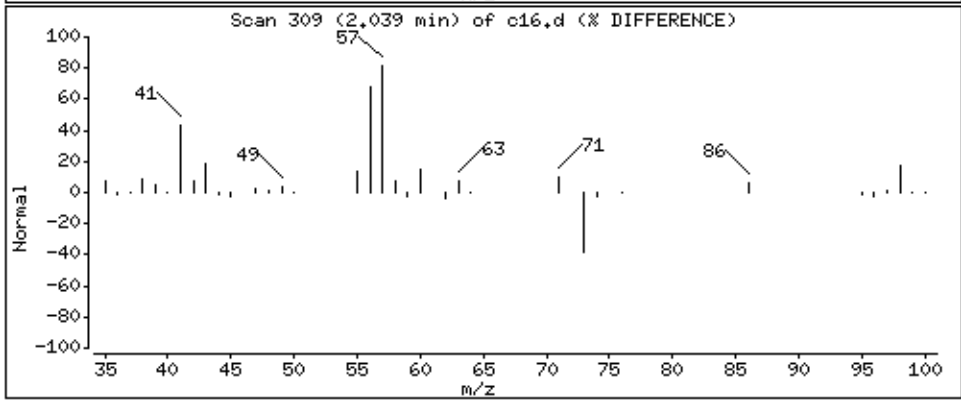
Concentration: 1.16 ppb

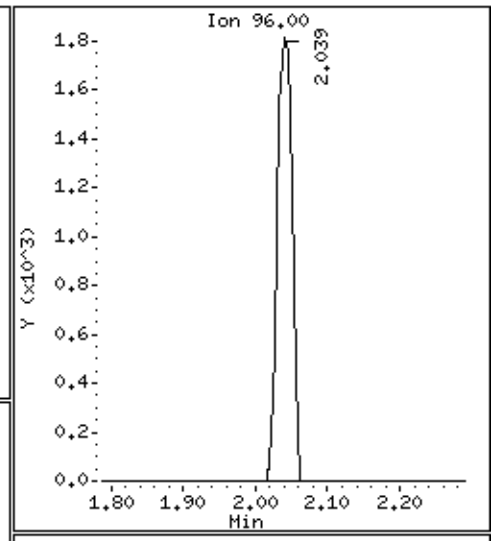
Review Code:

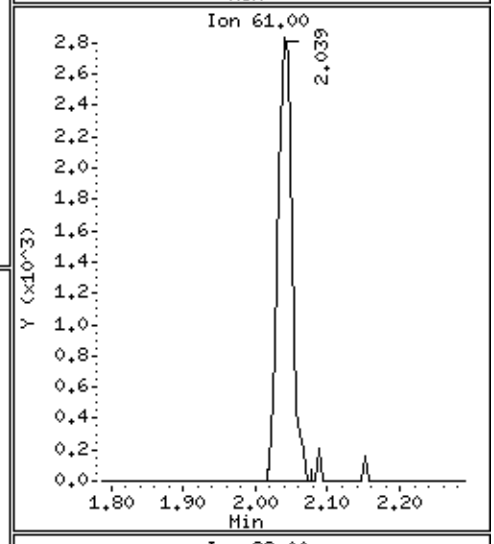


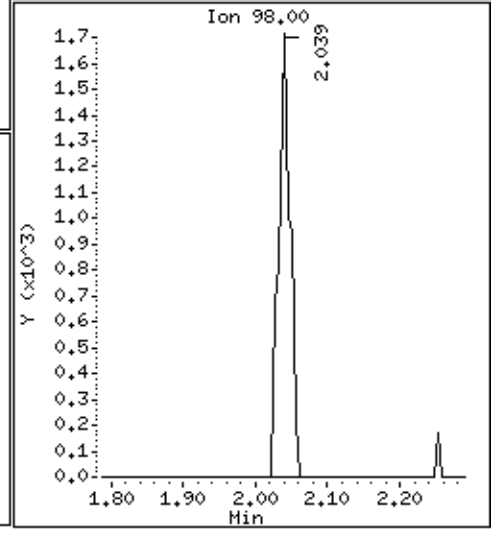












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d

Date : 12-APR-2016 06:58

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016

Purge Volume: 5.0

Operator: jlz

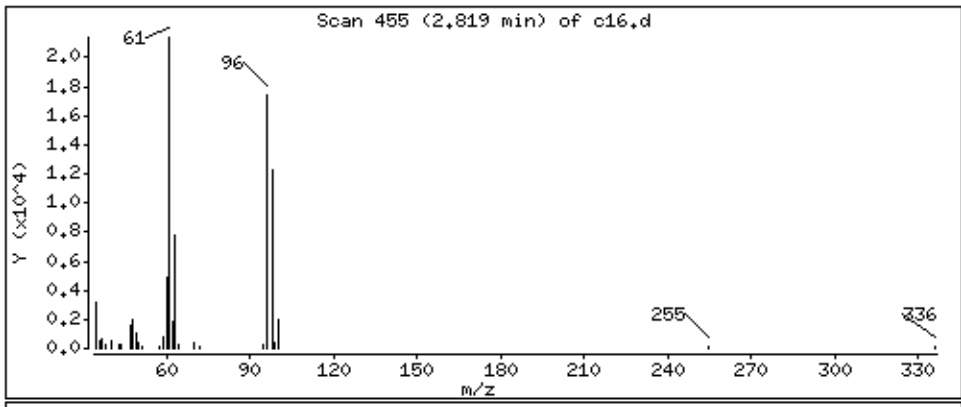
Column phase: DB-624

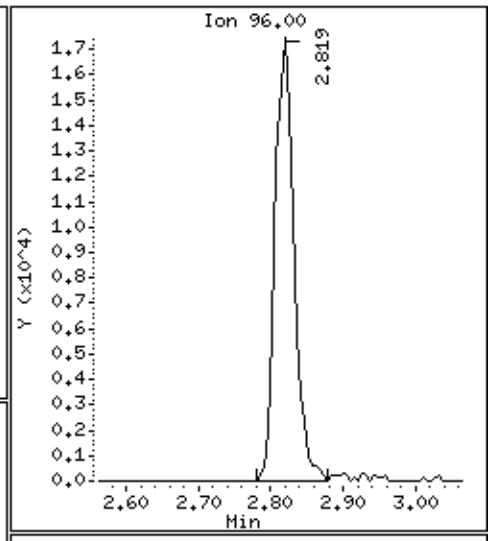
Column diameter: 0.18

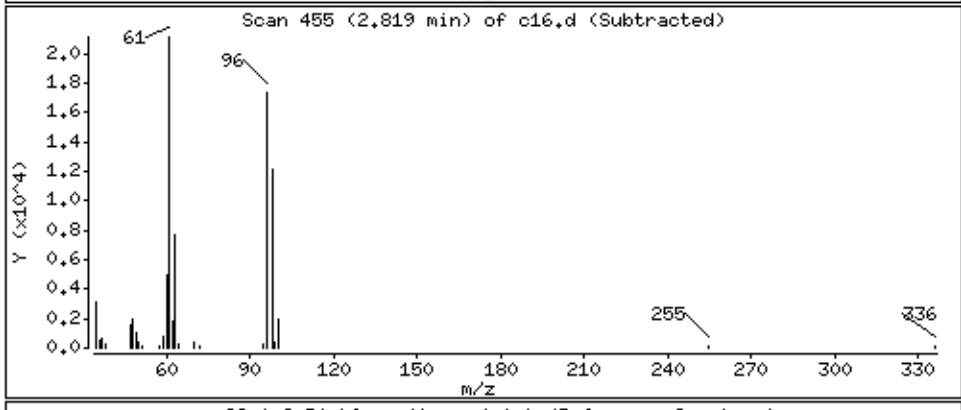
28 1,2-Dichloroethene (cis)

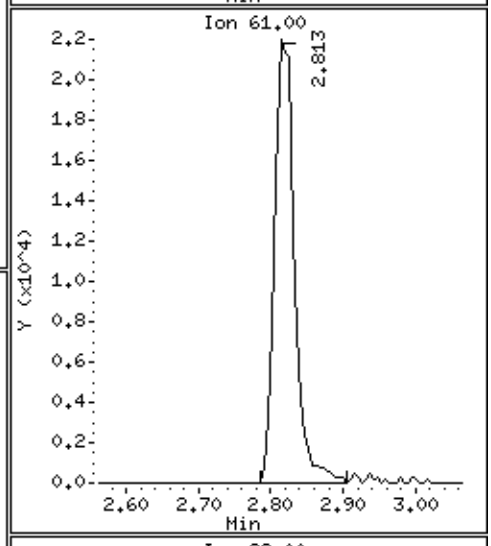
Concentration: 14.7 ppb

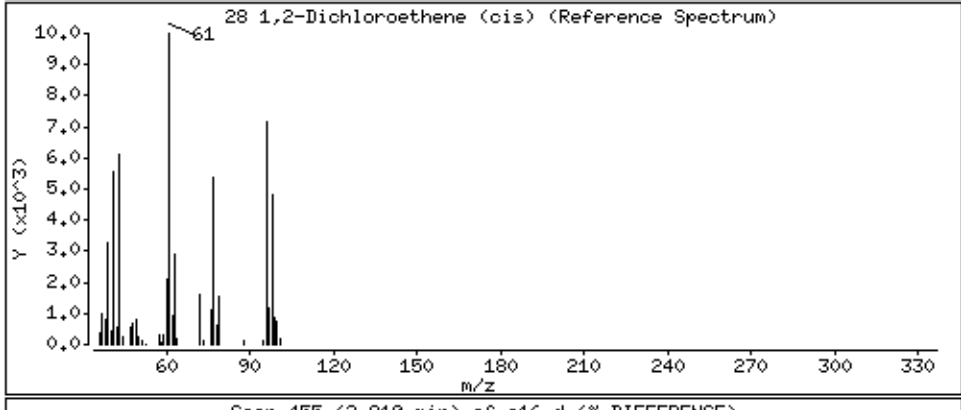
Review Code:

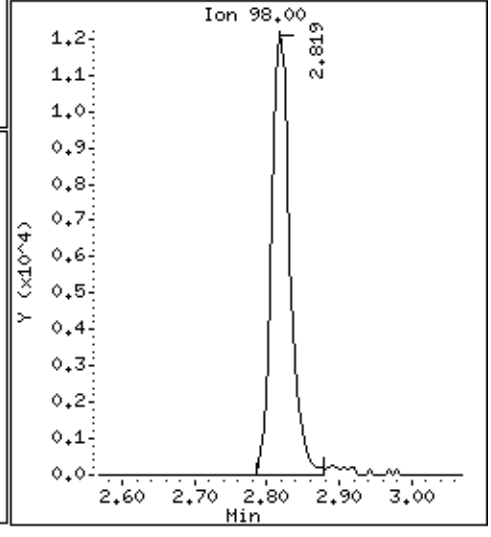


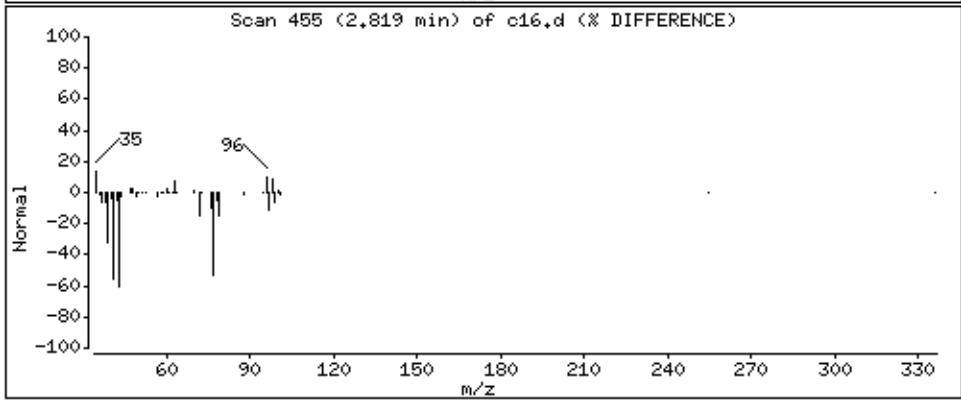












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d

Date : 12-APR-2016 06:58

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016

Purge Volume: 5.0

Operator: jlz

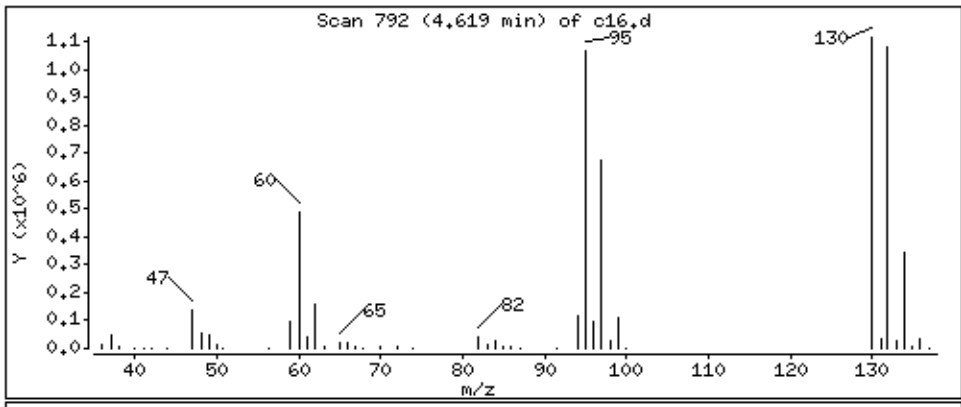
Column phase: DB-624

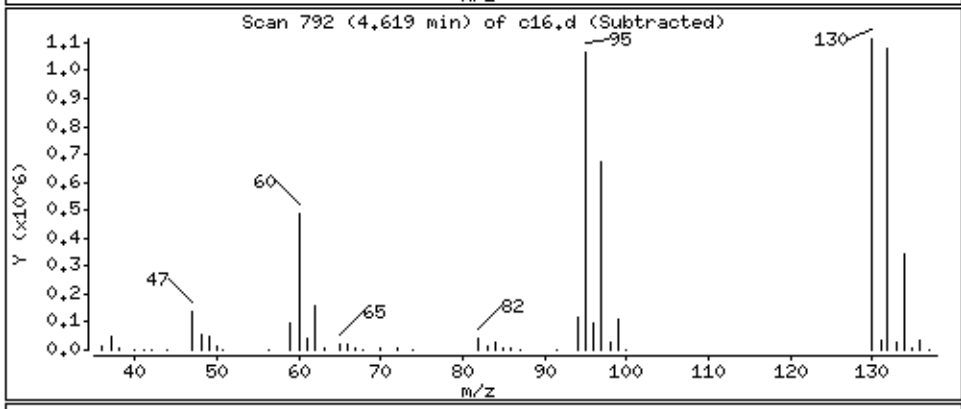
Column diameter: 0.18

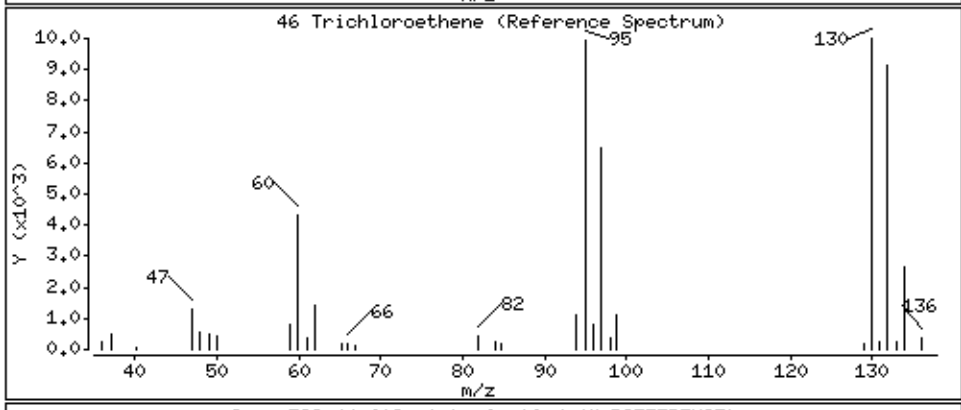
46 Trichloroethene

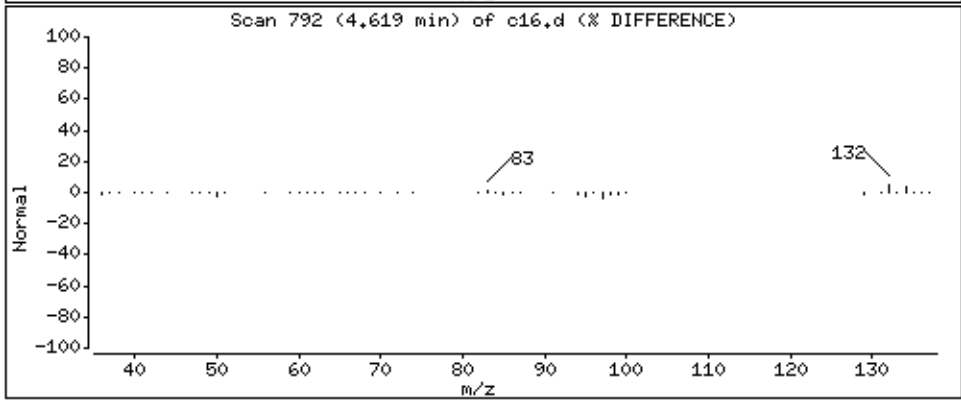
Concentration: 975 ppb

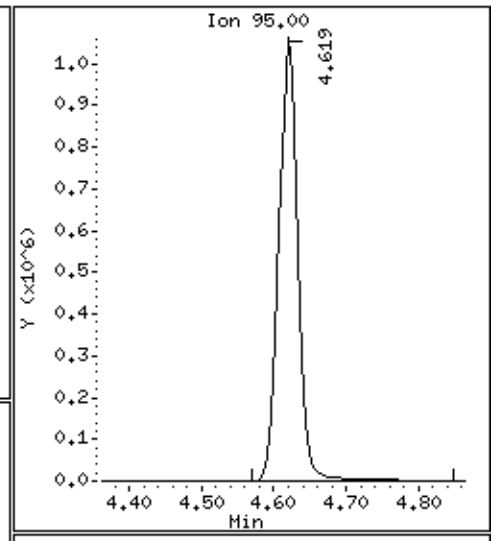
Review Code:

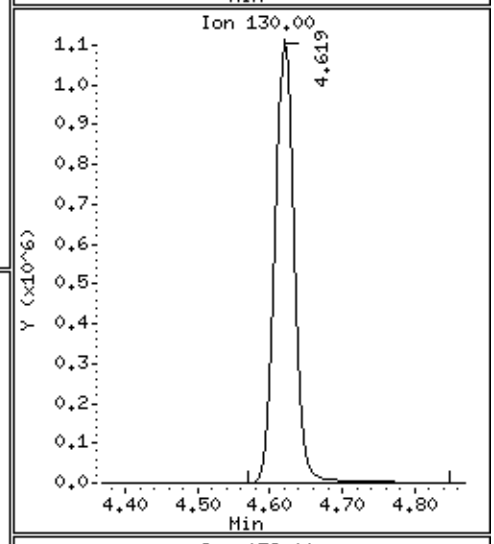


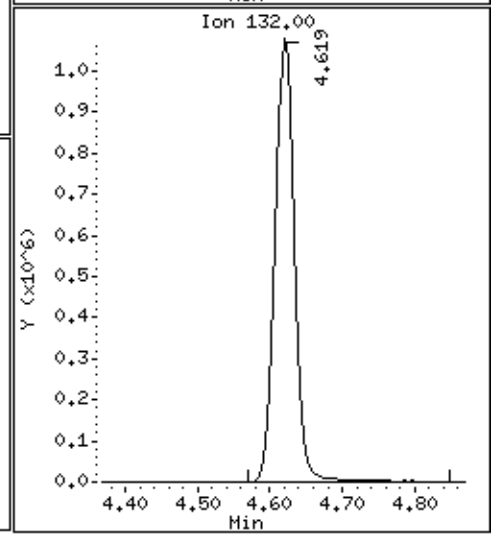












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c16.d

Date : 12-APR-2016 06:58

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016

Purge Volume: 5.0

Operator: jlz

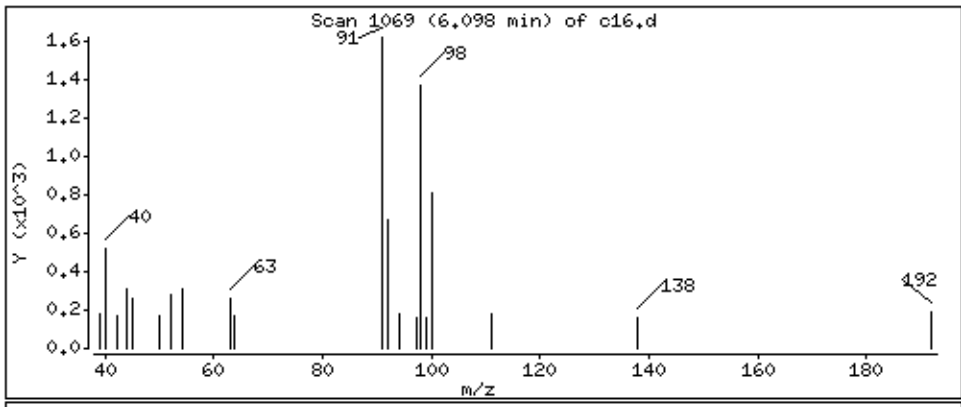
Column phase: DB-624

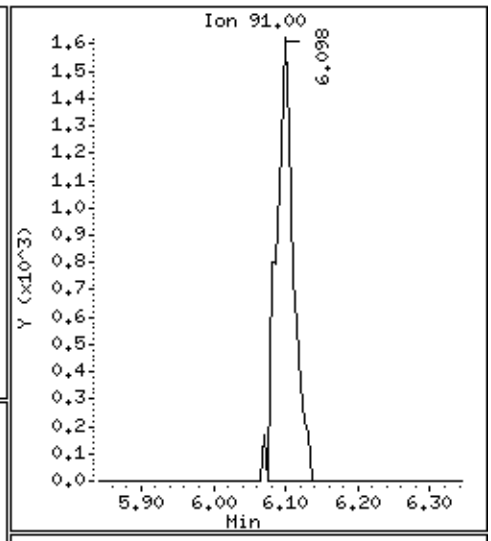
Column diameter: 0.18

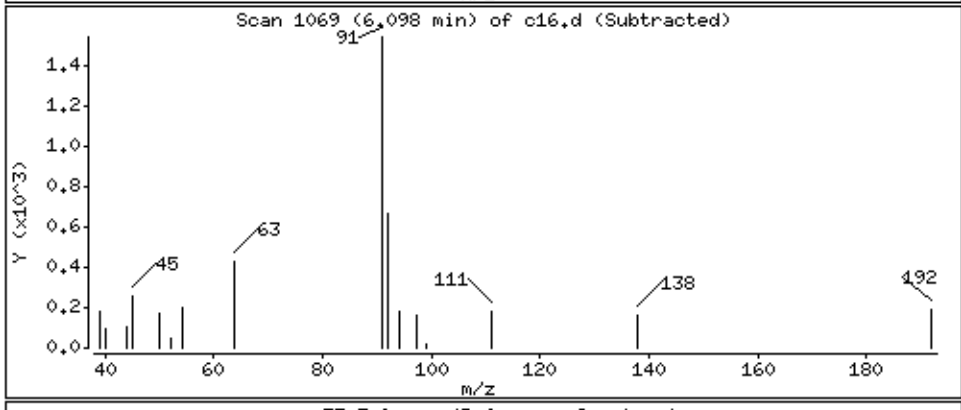
57 Toluene

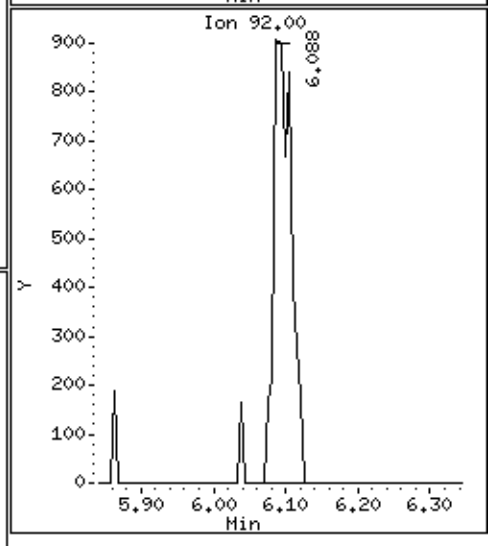
Concentration: 0.325 ppb

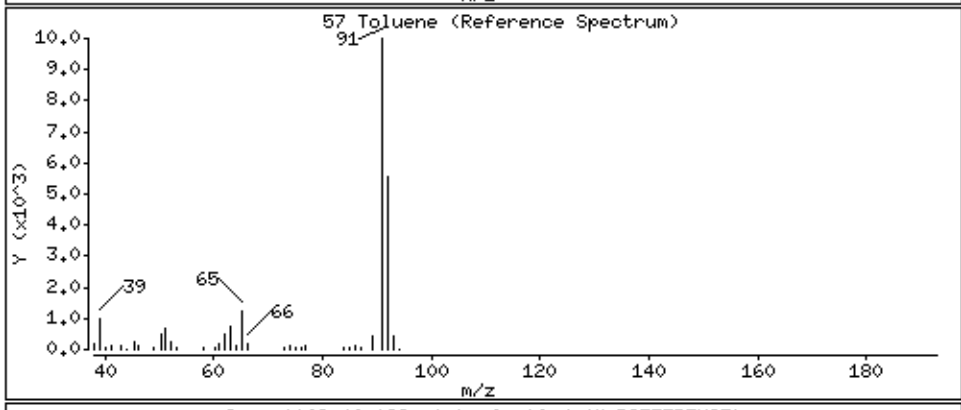
Review Code:

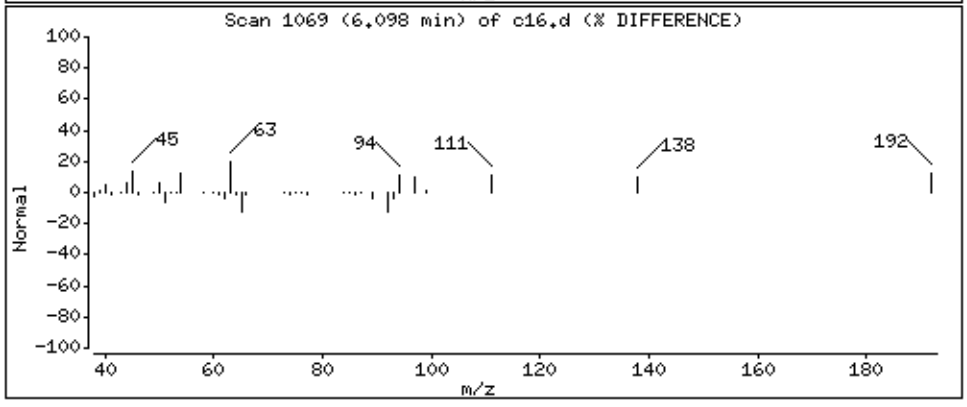












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c16.d
Injection Date: 12-APR-2016 06:58
Instrument: 50mv3a.i
Lab Sample ID: 50141666016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0605-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 07:30 Lab Sample ID: 50141666016

Date Analyzed: 04/12/2016 07:30 Lab File ID: A041116.B\C17.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 10 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	742	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d
Lab Smp Id: 50141666016 Client Smp ID: MW-0605-S1(033016)P
Inj Date : 12-APR-2016 07:30
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666016x10
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 81
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

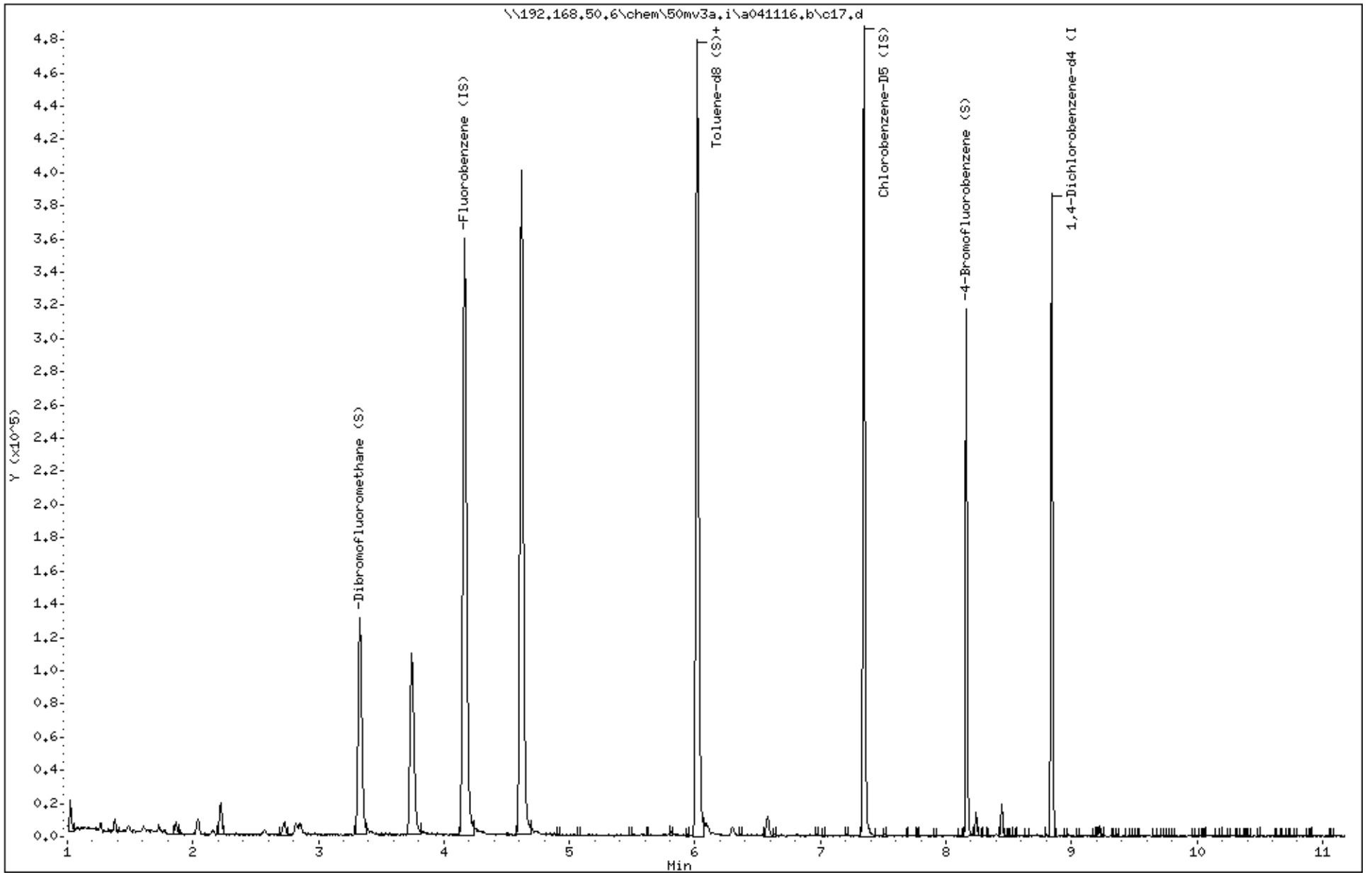
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	18 Methylene Chloride	84	1.864	1.861	(0.448)	1795	0.98921	9.89	
	23 n-Hexane	57	2.217	2.219	(0.532)	6345	1.51783	15.2	
	28 1,2-Dichloroethene (cis)	96	2.815	2.812	(0.676)	2725	1.40197	14.0	
$	35 Dibromofluoromethane (S)	113	3.333	3.330	(0.800)	81234	50.8217	50.8	
*	45 Fluorobenzene (IS)	96	4.166	4.163	(1.000)	354751	50.0000		
	46 Trichloroethene	95	4.620	4.612	(1.109)	133407	74.1942	742	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	286068	49.3360	49.3	
	57 Toluene	91	6.095	6.091	(0.830)	2548	0.34278	3.43	
*	66 Chlorobenzene-D5 (IS)	117	7.344	7.341	(1.000)	168779	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.111)	58886	42.2261	42.2	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	55639	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d
Date : 12-APR-2016 07:30
Client ID: MW-0605-S1(033016)P
Sample Info: 50141666016x10
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d

Date : 12-APR-2016 07:30

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016x10

Purge Volume: 5.0

Operator: jlz

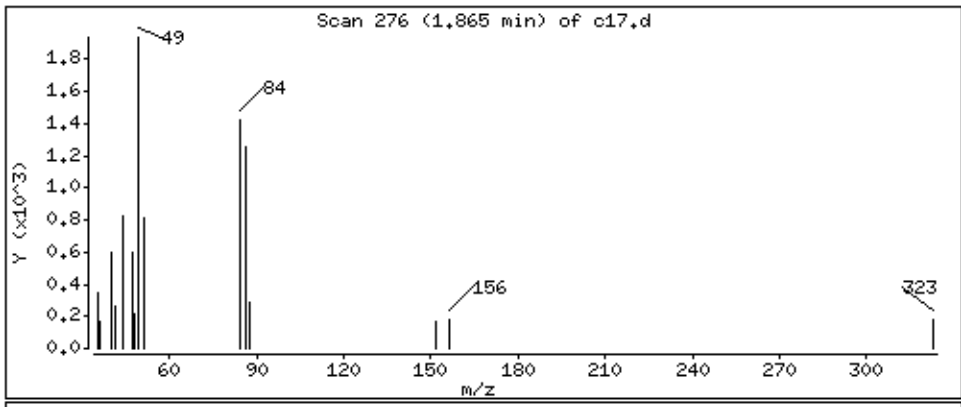
Column phase: DB-624

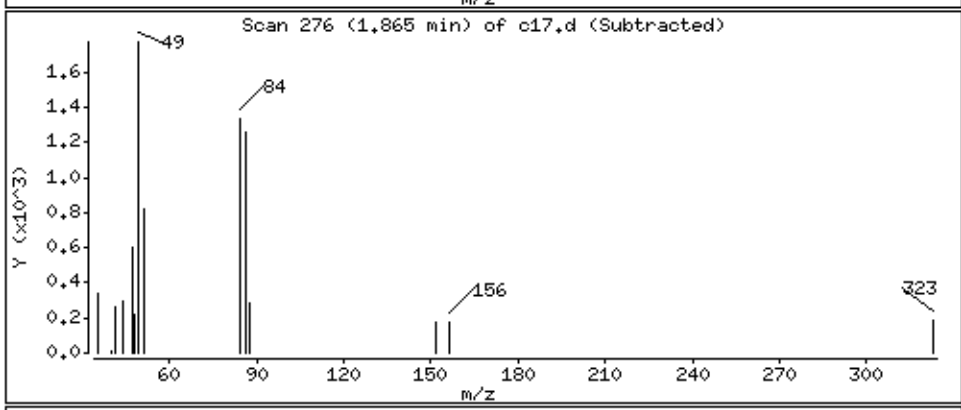
Column diameter: 0.18

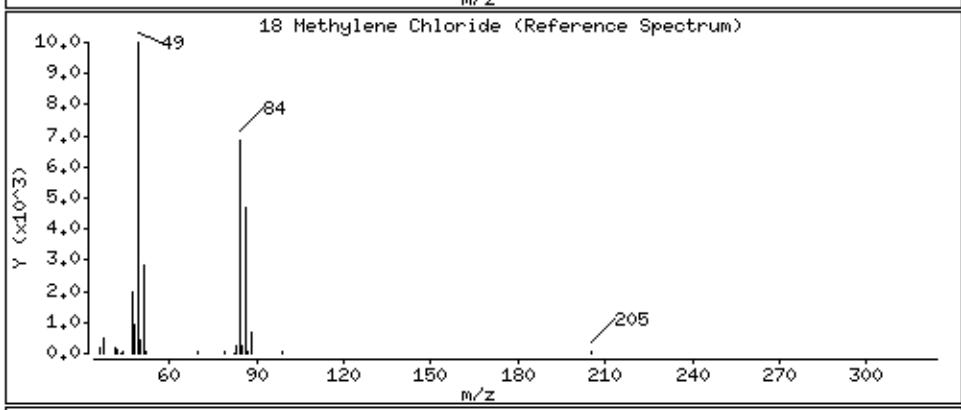
18 Methylene Chloride

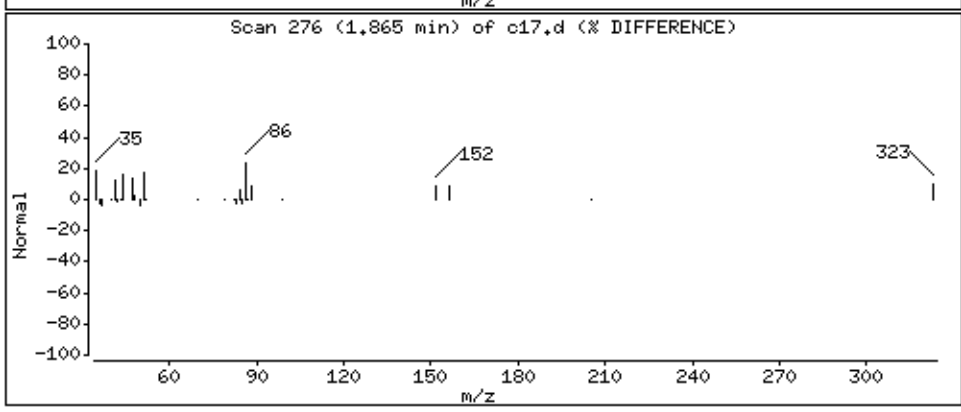
Concentration: 9.89 ppb

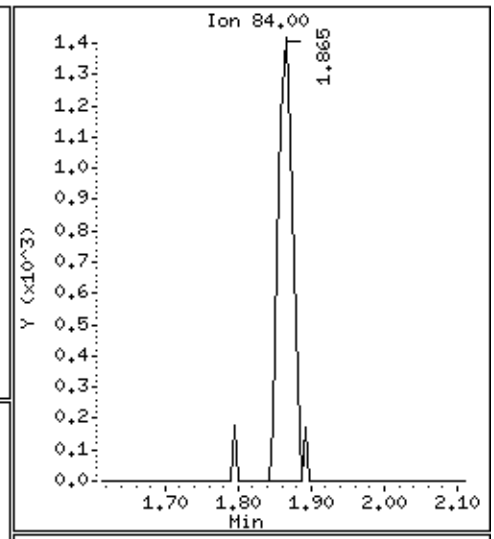
Review Code:

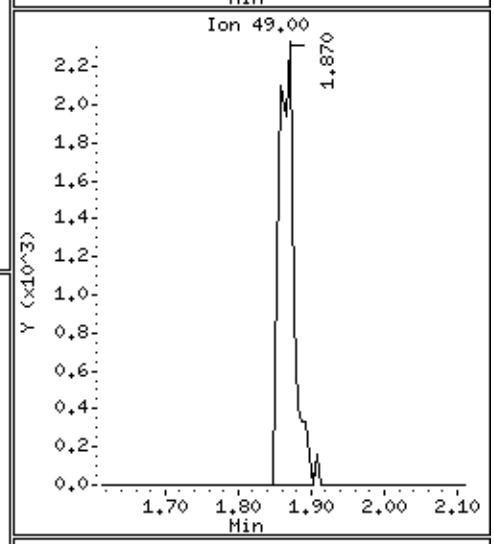


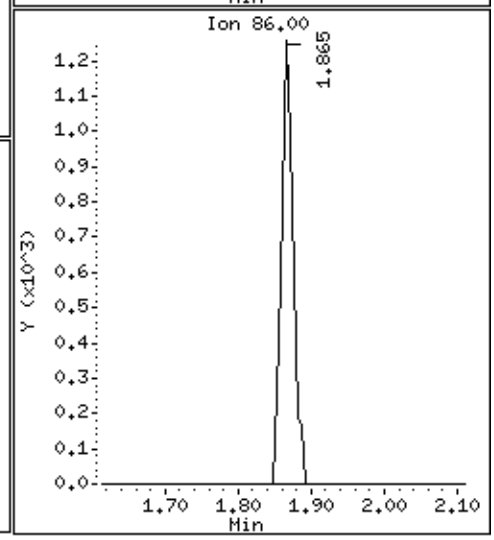












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d

Date : 12-APR-2016 07:30

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016x10

Purge Volume: 5.0

Operator: jlz

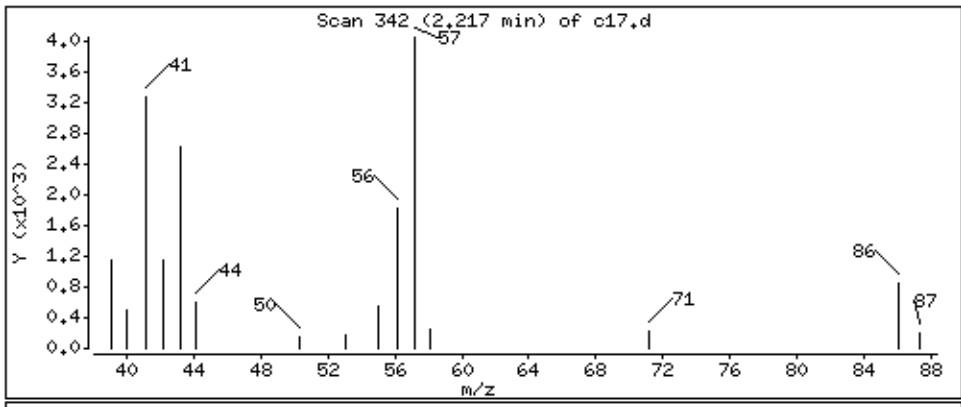
Column phase: DB-624

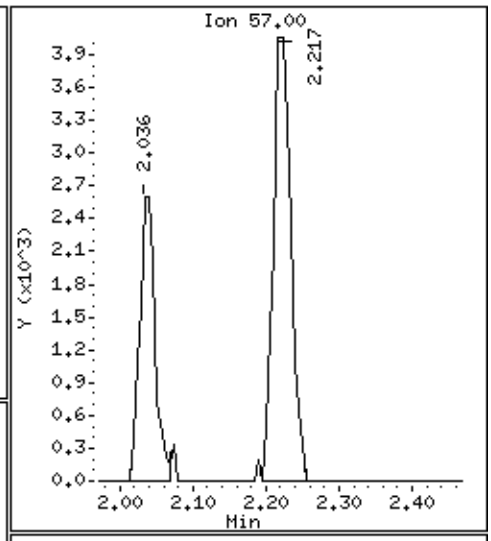
Column diameter: 0.18

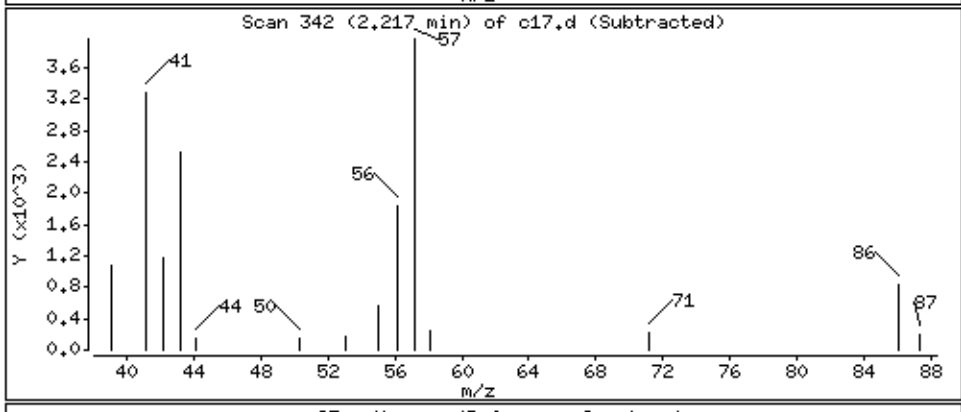
23 n-Hexane

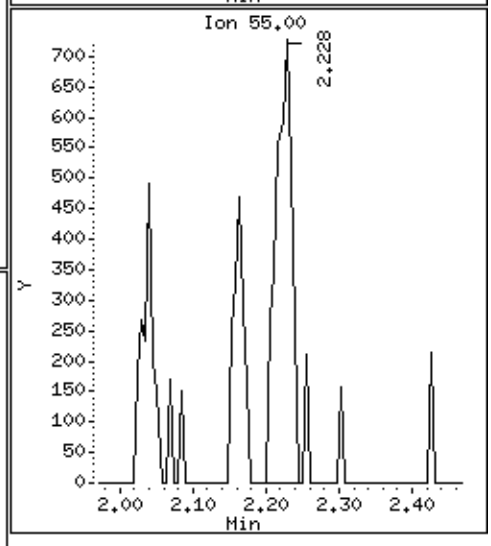
Concentration: 15.2 ppb

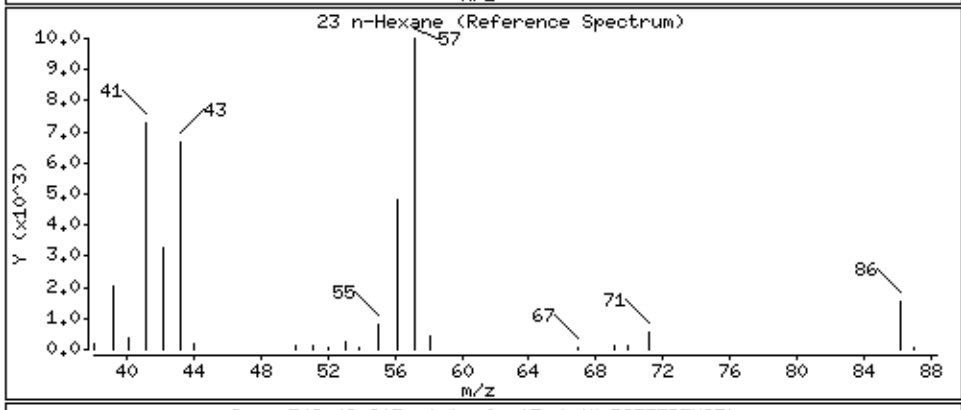
Review Code:

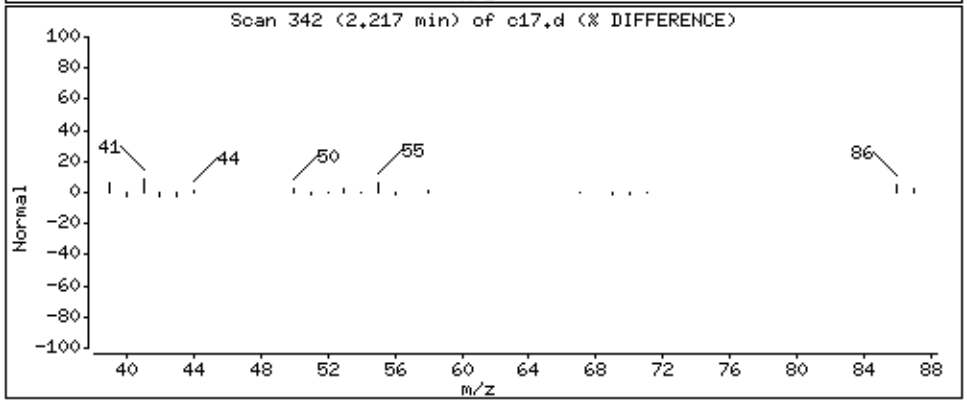












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d

Date : 12-APR-2016 07:30

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016x10

Purge Volume: 5.0

Operator: jlz

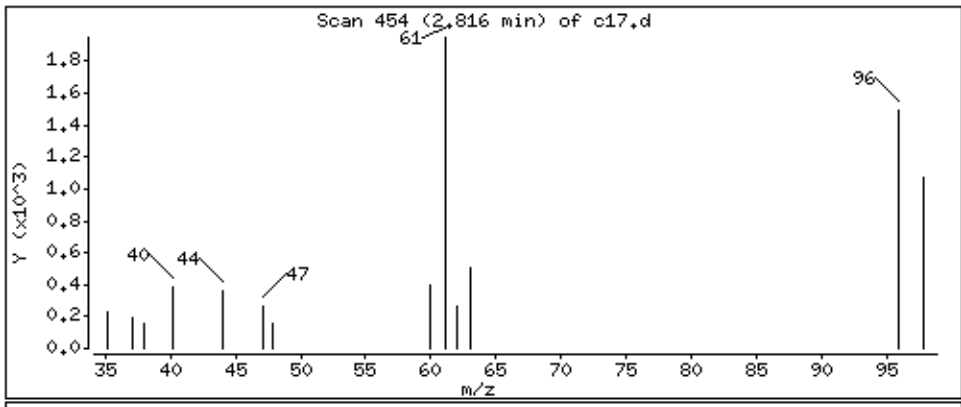
Column phase: DB-624

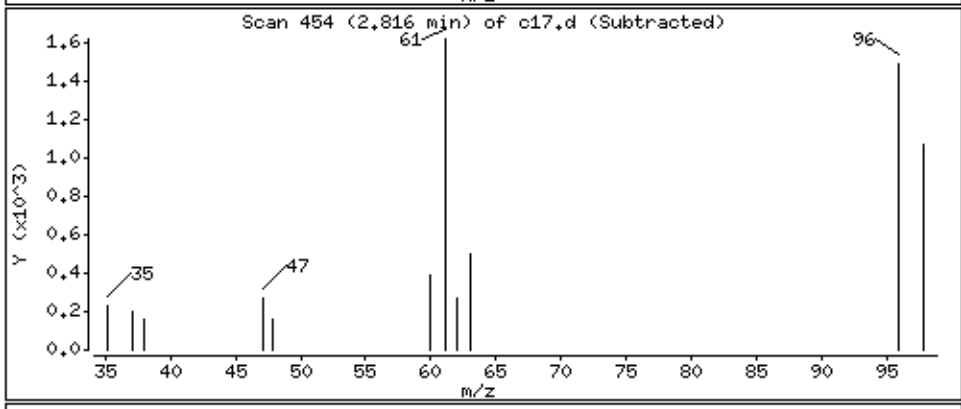
Column diameter: 0.18

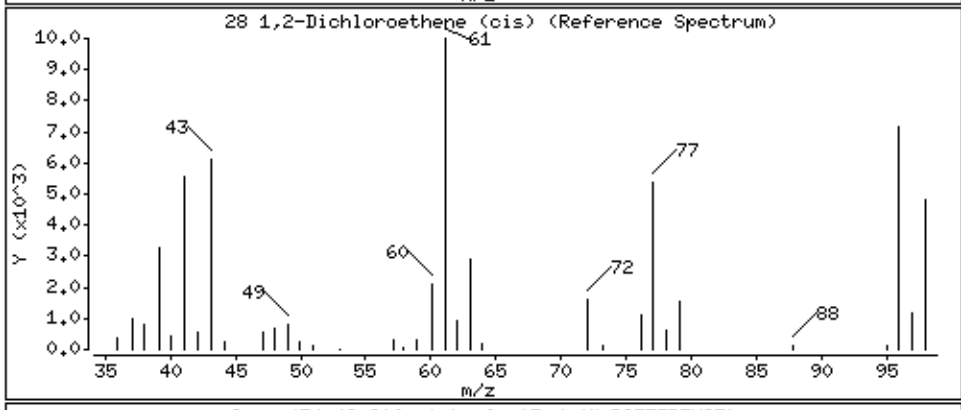
28 1,2-Dichloroethene (cis)

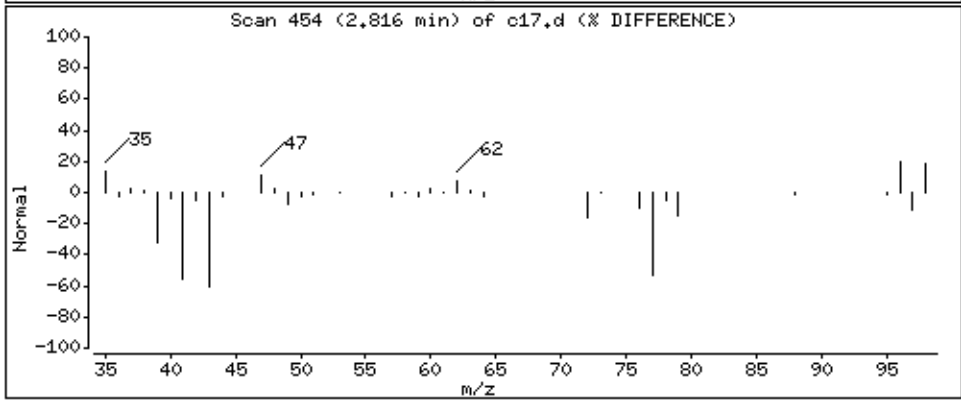
Concentration: 14.0 ppb

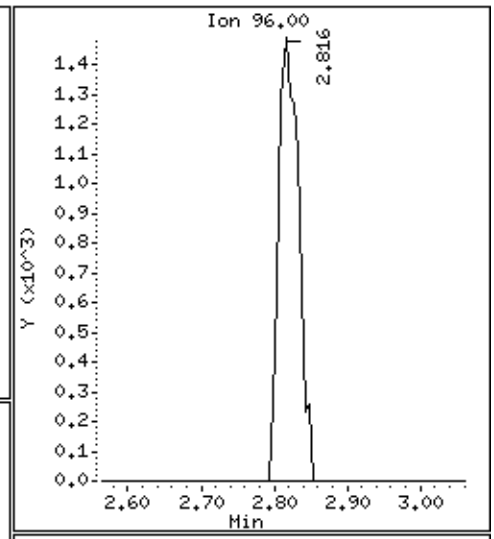
Review Code:

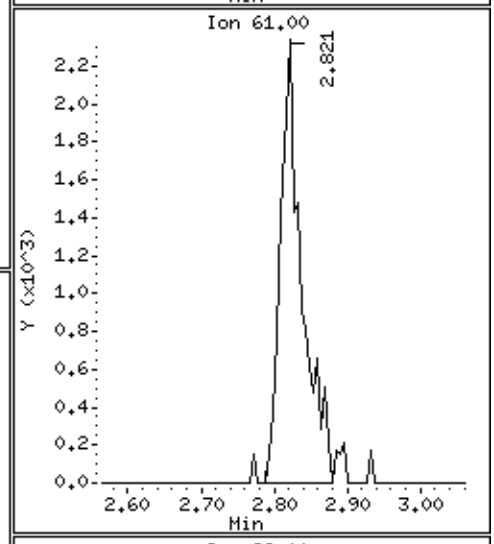


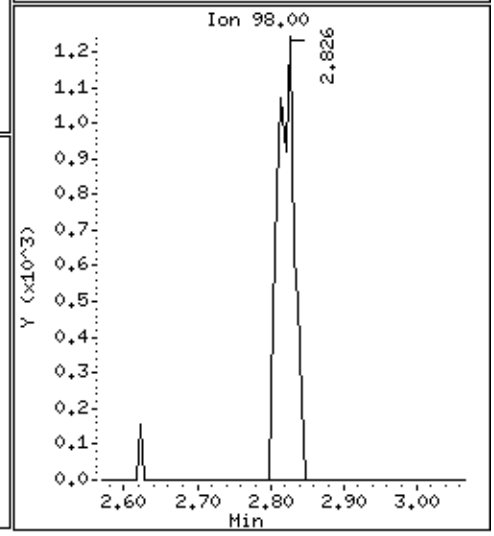












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d

Date : 12-APR-2016 07:30

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016x10

Purge Volume: 5.0

Operator: jlz

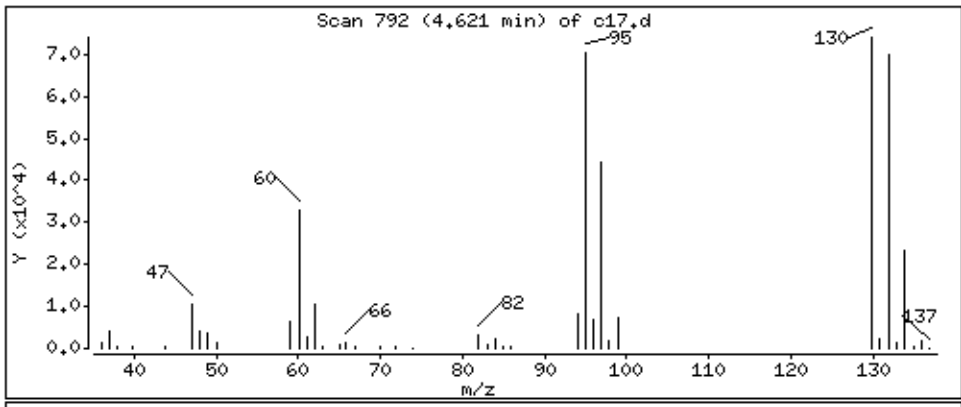
Column phase: DB-624

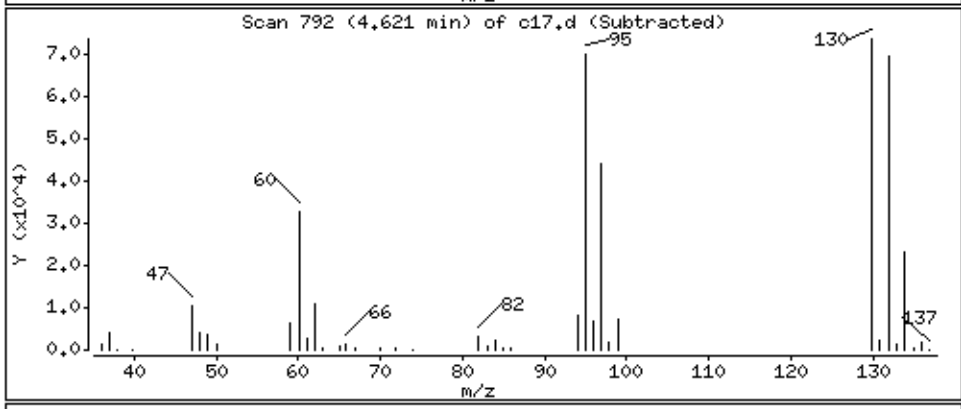
Column diameter: 0.18

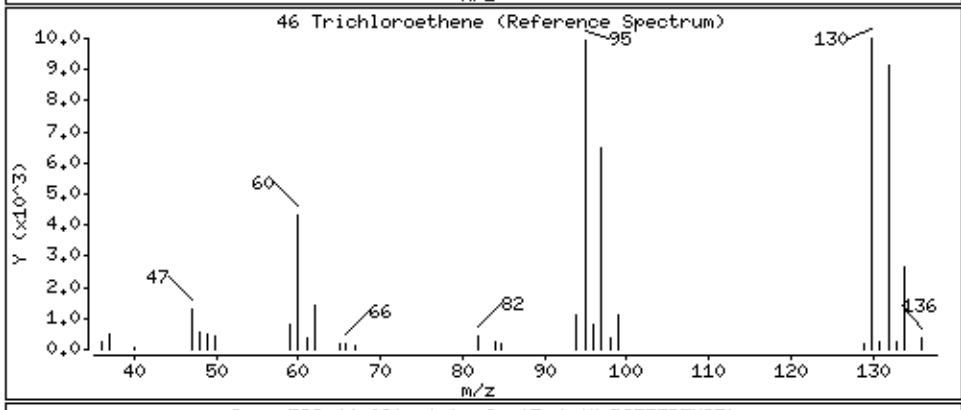
46 Trichloroethene

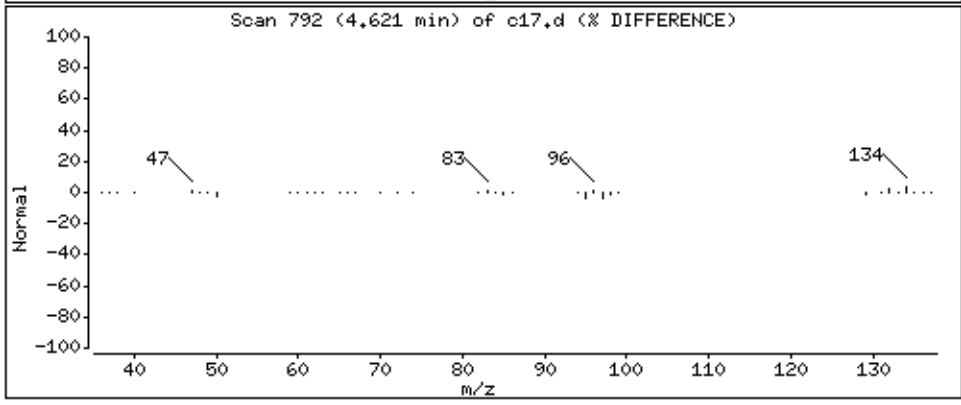
Concentration: 742 ppb

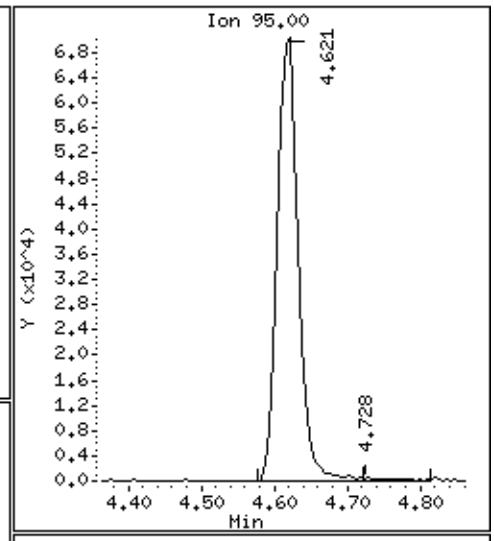
Review Code:

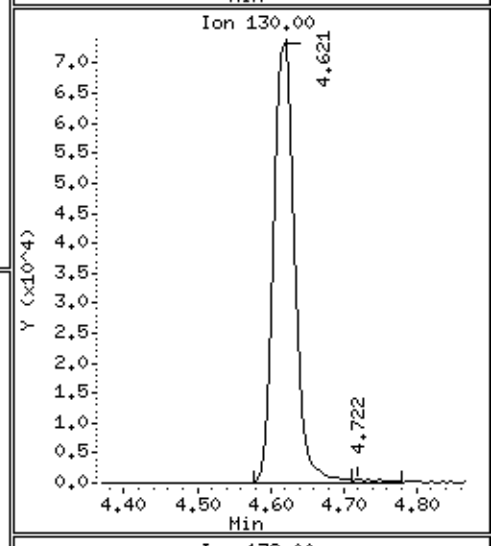


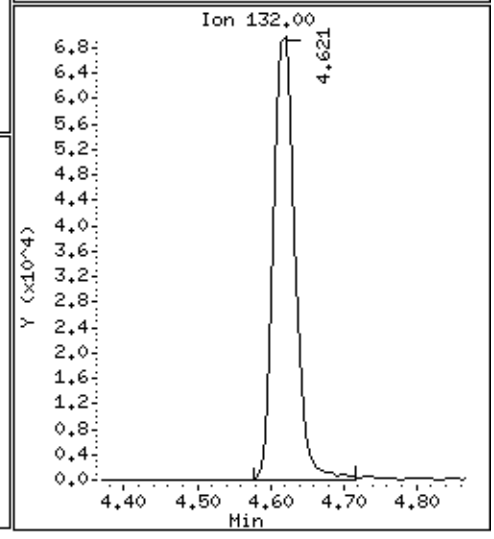












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c17.d

Date : 12-APR-2016 07:30

Client ID: MW-0605-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666016x10

Purge Volume: 5.0

Operator: jlz

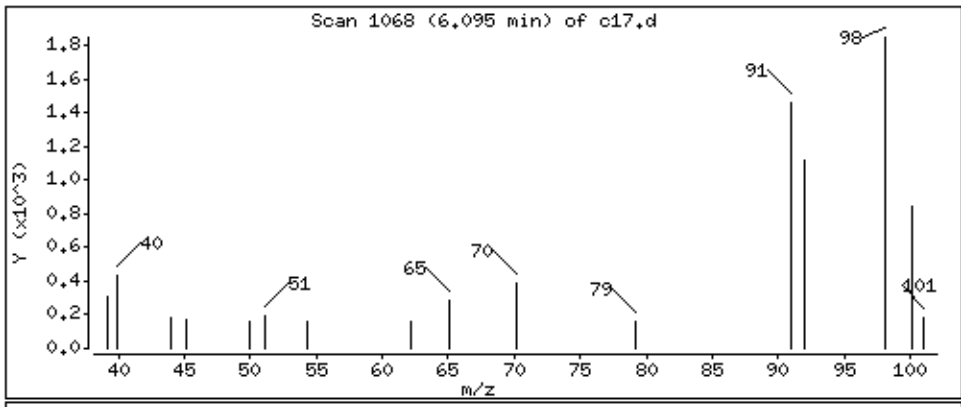
Column phase: DB-624

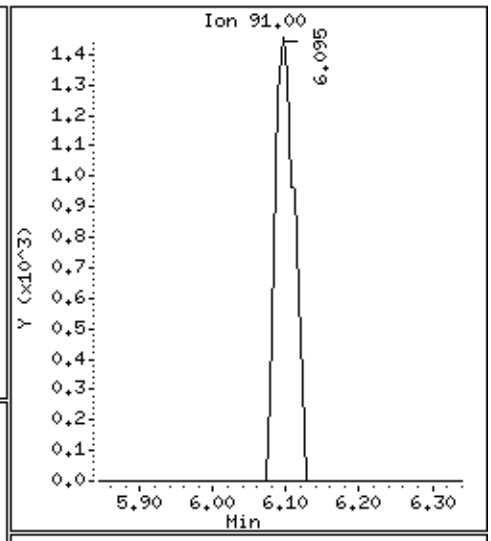
Column diameter: 0.18

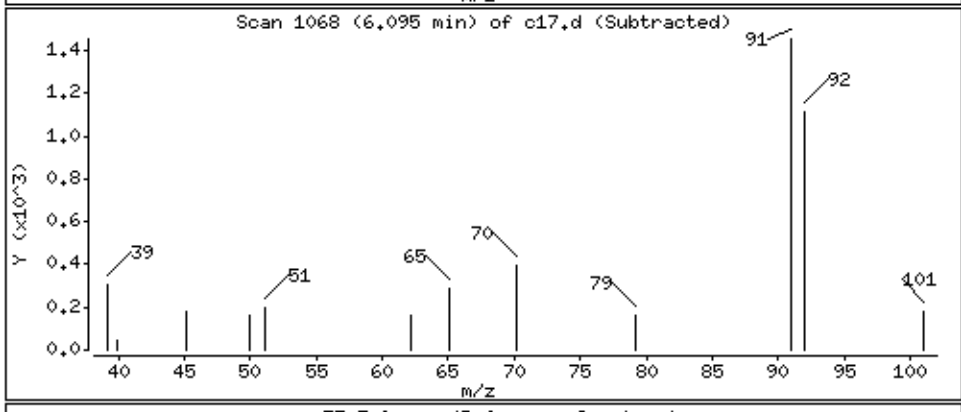
57 Toluene

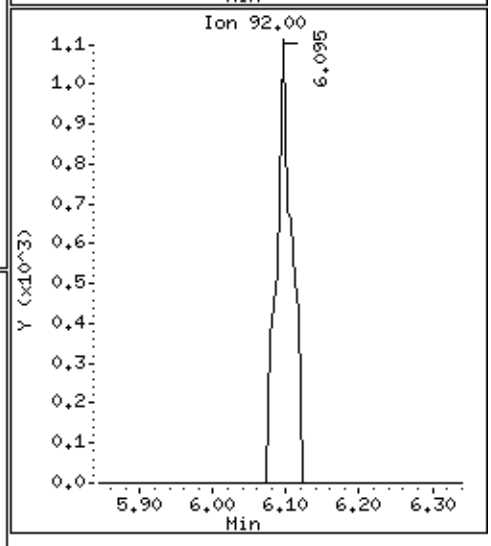
Concentration: 3.43 ppb

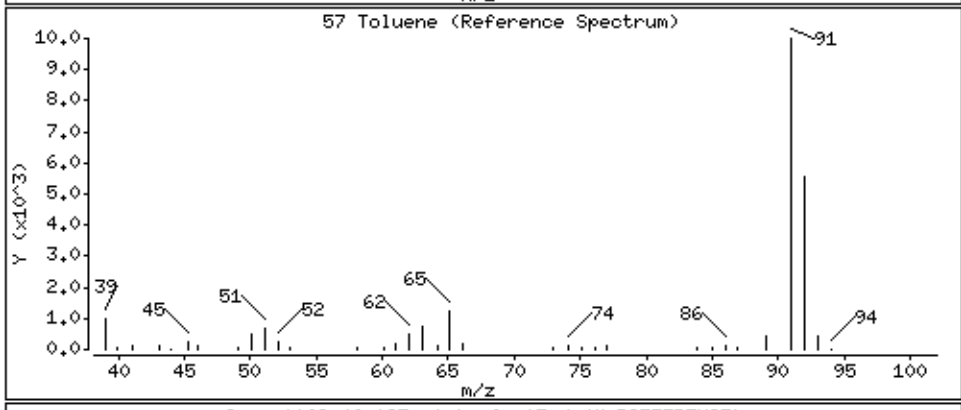
Review Code:

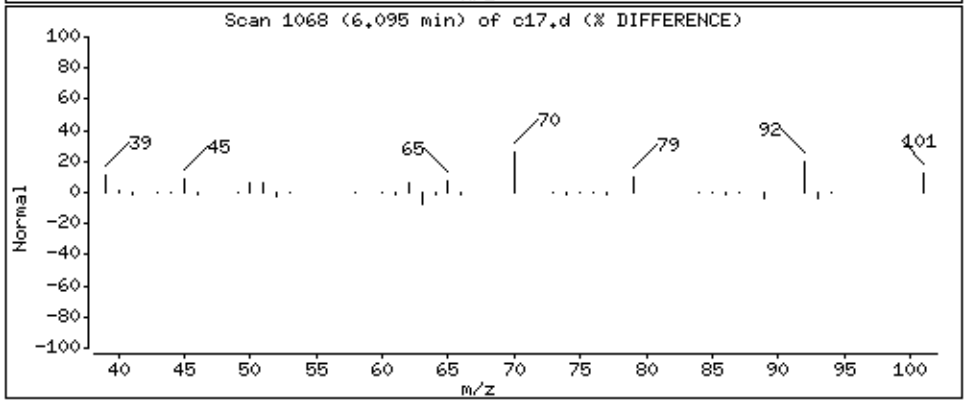












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c17.d
Injection Date: 12-APR-2016 07:30
Instrument: 50mv3a.i
Lab Sample ID: 50141666016
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0607-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:22 Lab Sample ID: 50141666017

Date Analyzed: 04/12/2016 01:22 Lab File ID: B041116.B\D05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0607-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:22 Lab Sample ID: 50141666017

Date Analyzed: 04/12/2016 01:22 Lab File ID: B041116.B\D05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d05.d
Lab Smp Id: 50141666017 Client Smp ID: MW-0607-S1(033016)P
Inj Date : 12-APR-2016 01:22
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666017
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

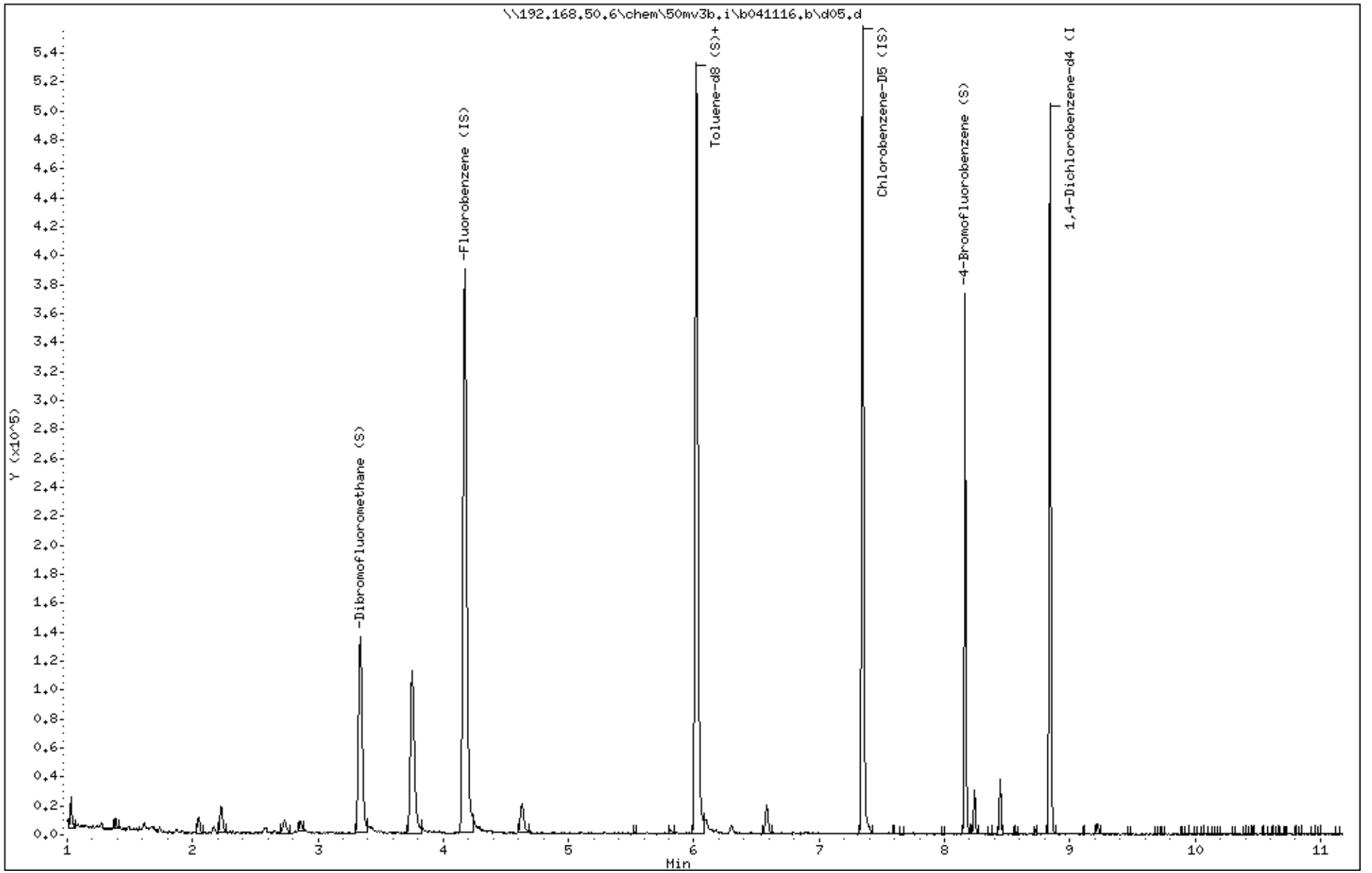
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.614	1.611	(0.387)	6076	11.5592	11.6	
$	35 Dibromofluoromethane (S)	113	3.339	3.342	(0.800)	91339	51.9133	51.9	
*	44 Fluorobenzene (IS)	96	4.172	4.175	(1.000)	384258	50.0000		
	45 Trichloroethene	95	4.621	4.624	(1.108)	7140	3.71897	3.72	
$	55 Toluene-d8 (S)	98	6.020	6.023	(0.820)	319608	49.7063	49.7	
	56 Toluene	91	6.100	6.092	(0.831)	2839	0.33900	0.339	
*	65 Chlorobenzene-D5 (IS)	117	7.345	7.348	(1.000)	198984	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.162	8.165	(1.111)	72914	41.7102	41.7	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	72498	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d05.d
Date : 12-APR-2016 01:22
Client ID: MW-0607-S1(033016)P
Sample Info: 50141666017
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d05.d

Date : 12-APR-2016 01:22

Client ID: MW-0607-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666017

Purge Volume: 5.0

Operator: jlz

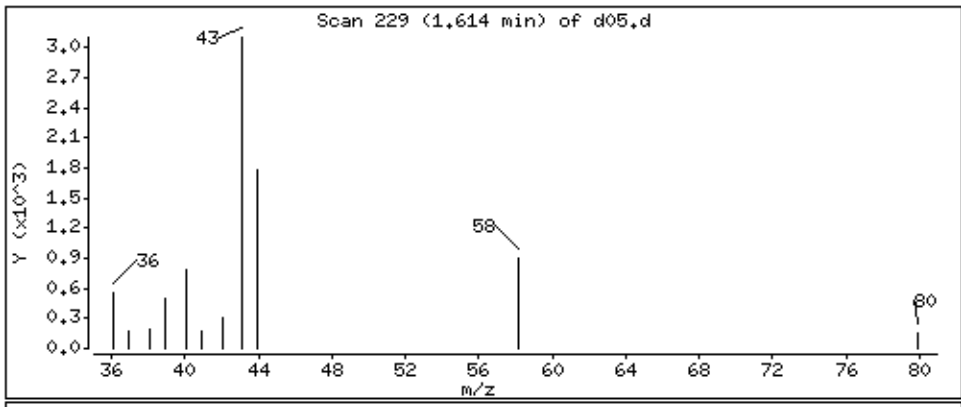
Column phase: DB-624

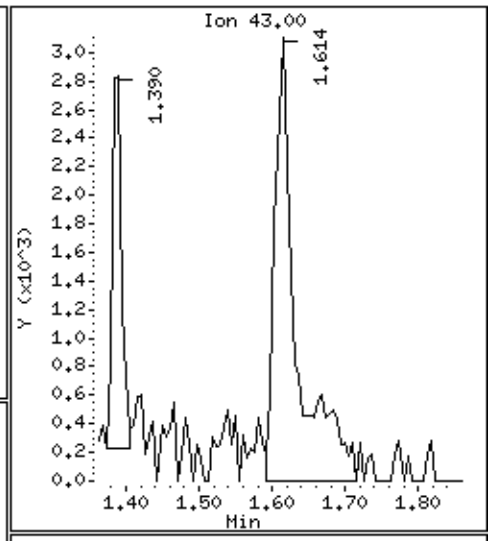
Column diameter: 0.18

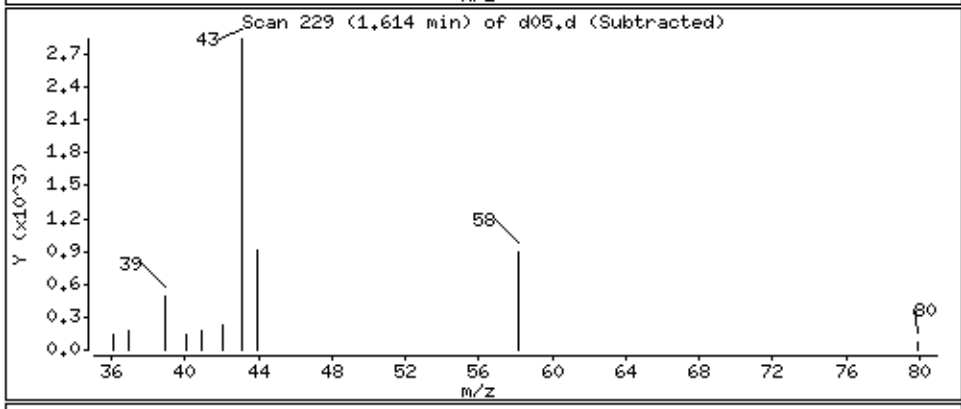
12 Acetone

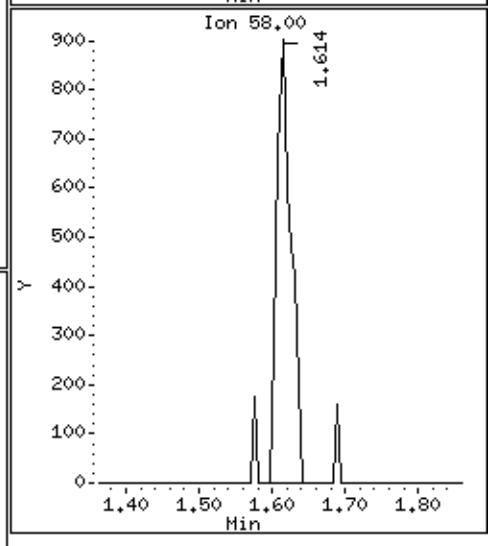
Concentration: 11.6 ppb

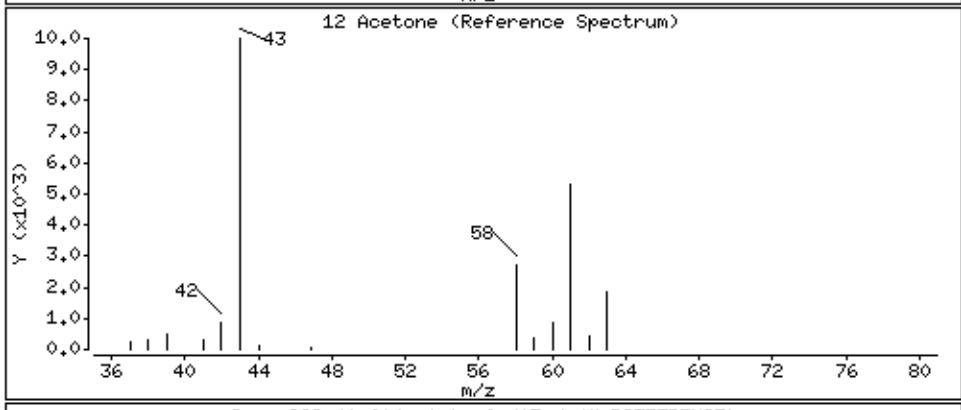
Review Code:

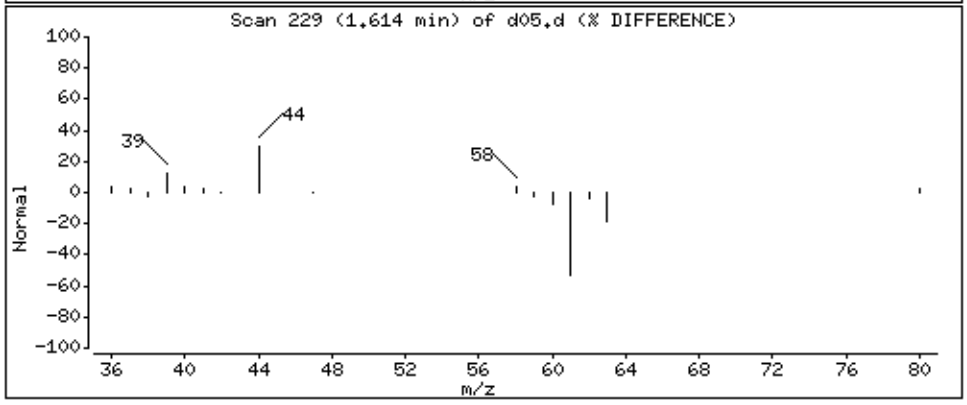












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d05.d

Date : 12-APR-2016 01:22

Client ID: MW-0607-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666017

Purge Volume: 5.0

Operator: jlz

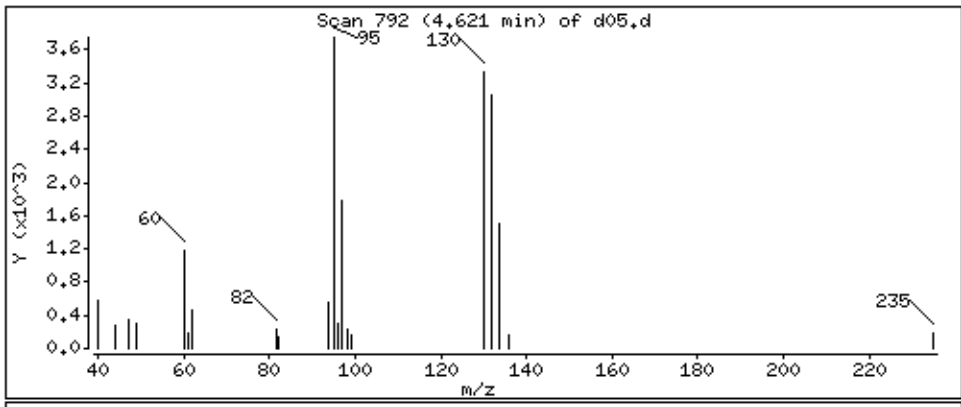
Column phase: DB-624

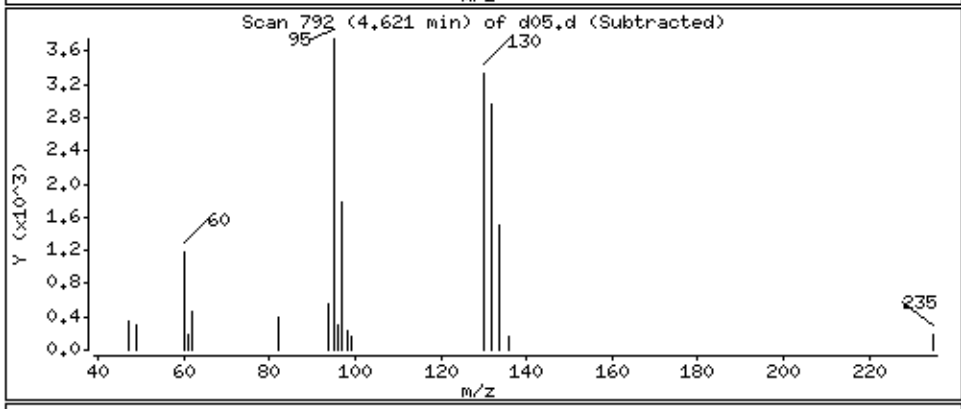
Column diameter: 0.18

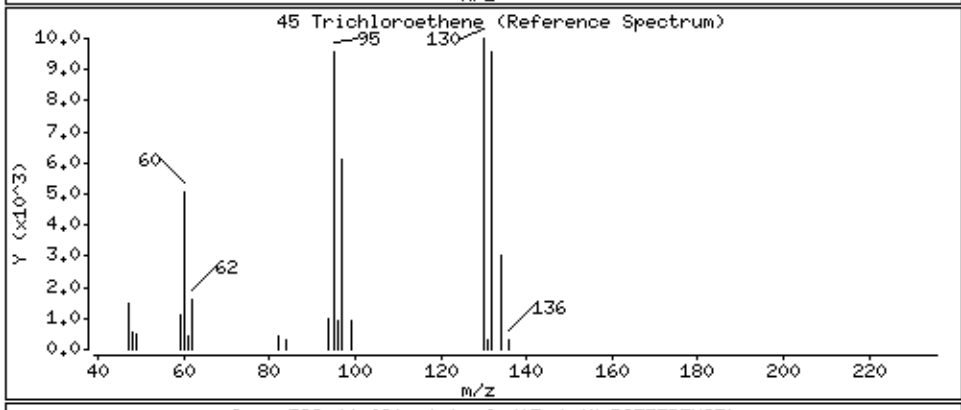
45 Trichloroethene

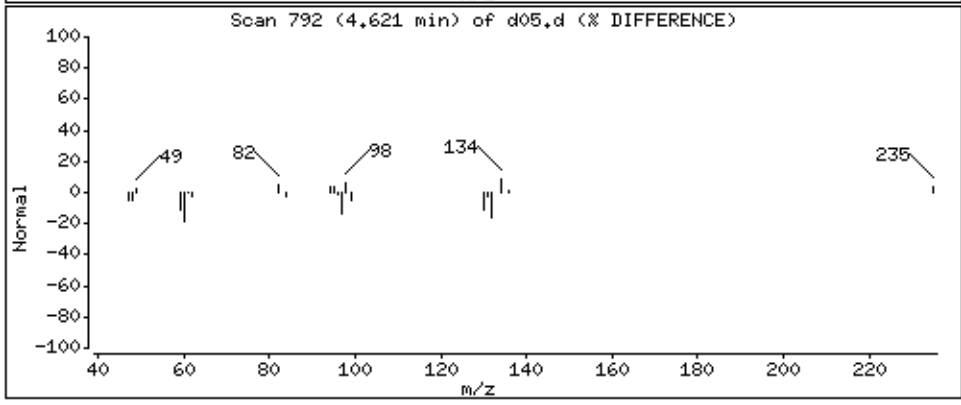
Concentration: 3.72 ppb

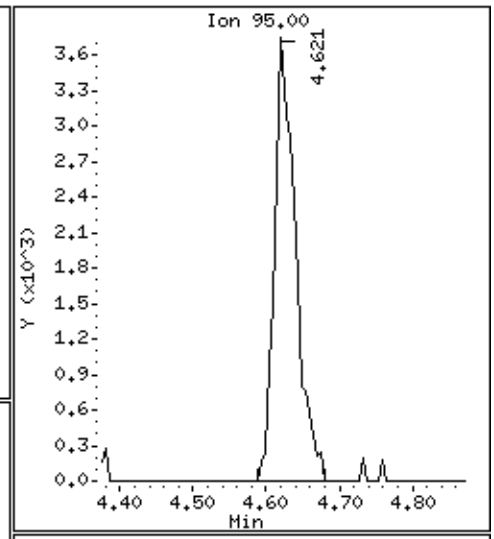
Review Code:

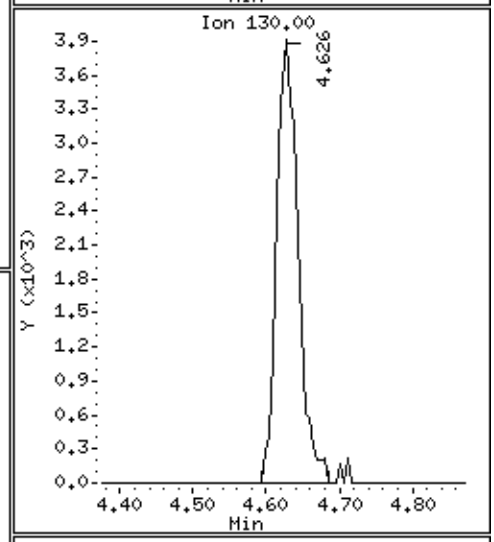


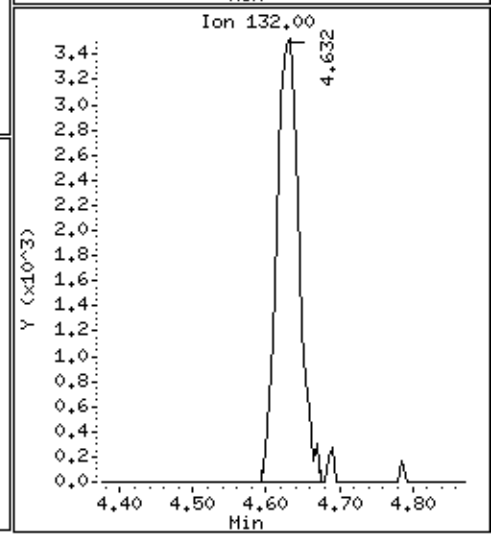












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d05.d

Date : 12-APR-2016 01:22

Client ID: MW-0607-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666017

Purge Volume: 5.0

Operator: jlz

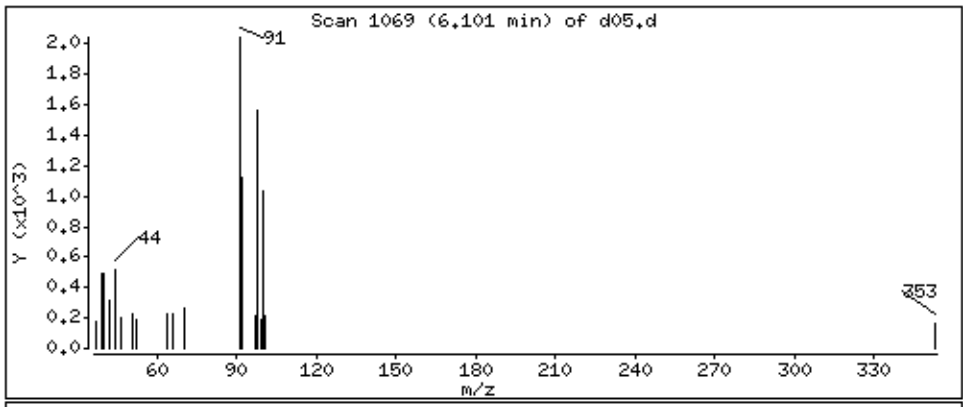
Column phase: DB-624

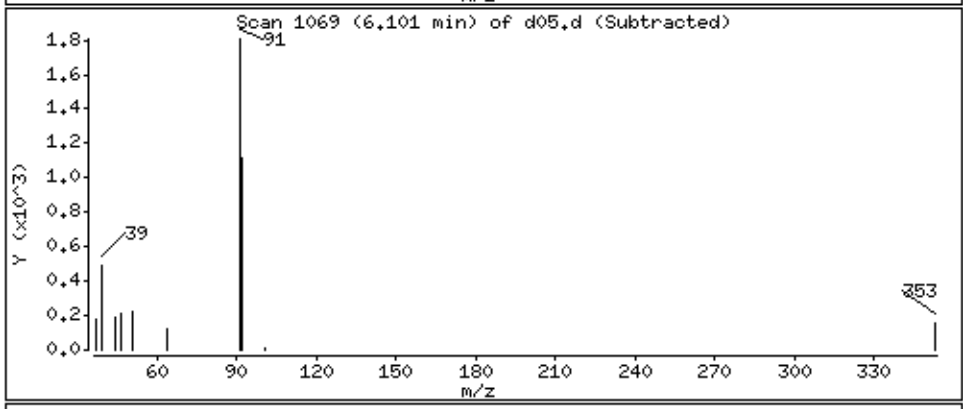
Column diameter: 0.18

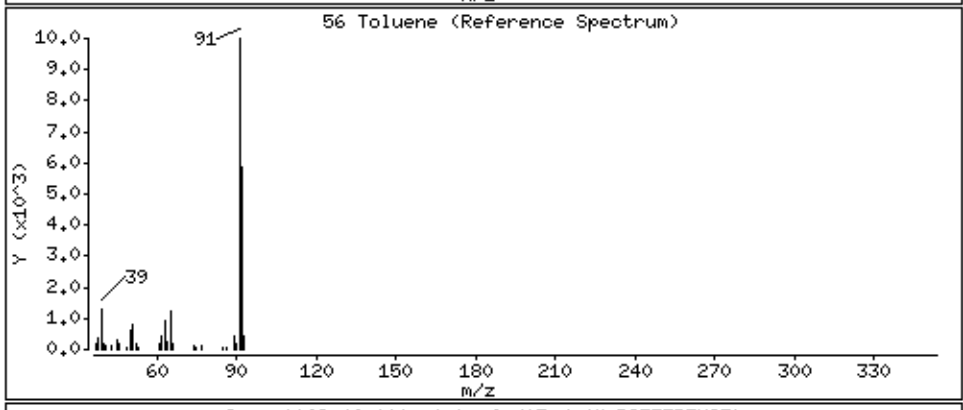
56 Toluene

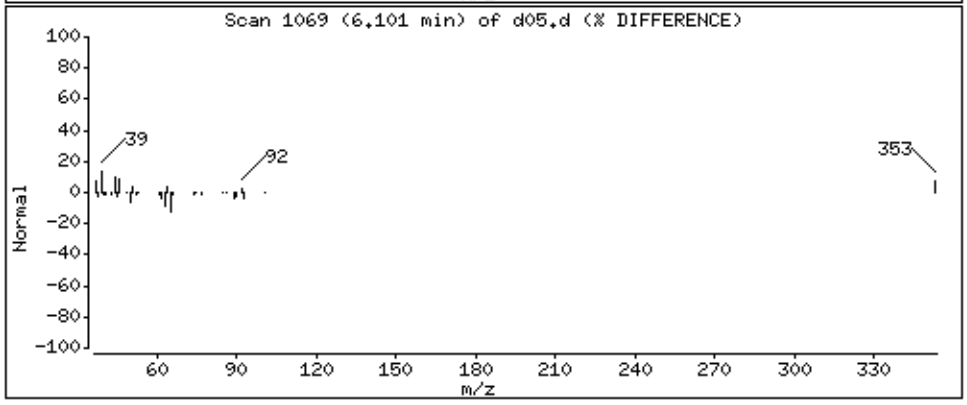
Concentration: 0.339 ppb

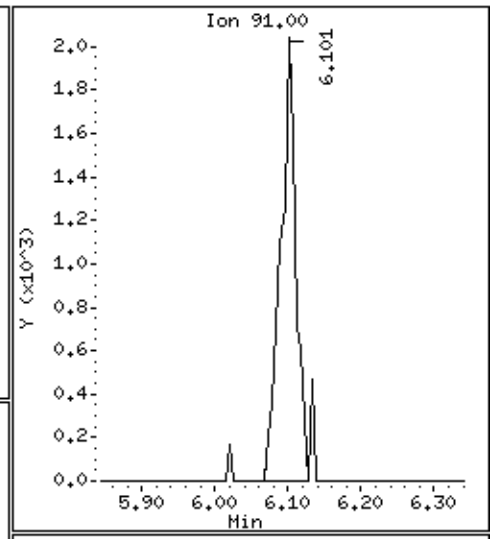
Review Code:

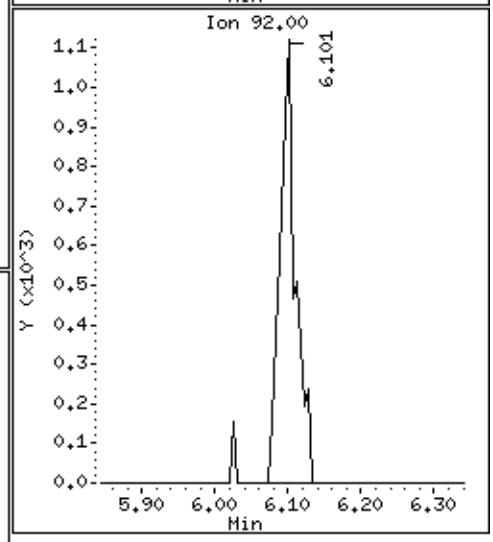












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d05.d
Injection Date: 12-APR-2016 01:22
Instrument: 50mv3b.i
Lab Sample ID: 50141666017
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0608-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 08:02 Lab Sample ID: 50141666018

Date Analyzed: 04/12/2016 08:02 Lab File ID: A041116.B\C18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	97.8	
156-60-5	trans-1,2-Dichloroethene	9.3	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0608-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 08:02 Lab Sample ID: 50141666018

Date Analyzed: 04/12/2016 08:02 Lab File ID: A041116.B\C18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	2.6	
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d
Lab Smp Id: 50141666018 Client Smp ID: MW-0608-S1(033016)P
Inj Date : 12-APR-2016 08:02
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666018
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

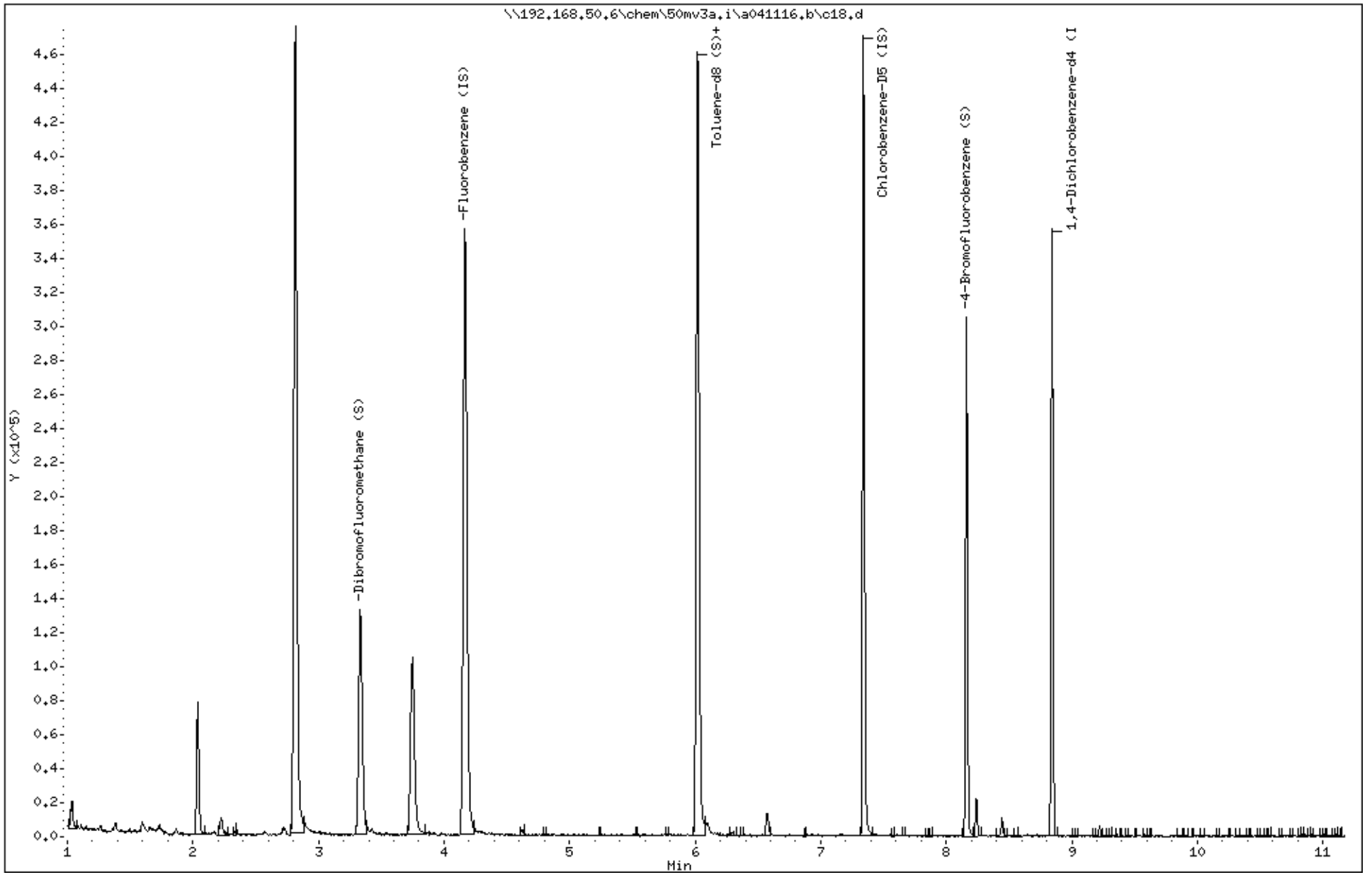
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.039	1.033	(0.250)	7699	2.56671	2.57	
	22 1,2-Dichloroethene (trans)	96	2.038	2.038	(0.490)	18053	9.27142	9.27	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	189130	97.7977	97.8	
$	35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	83371	52.4230	52.4	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	352962	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.109)	1139	0.63666	0.637	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	276002	48.9981	49.0	
	57 Toluene	91	6.092	6.091	(0.830)	2348	0.32515	0.325	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	163963	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	57882	42.7253	42.7	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	54727	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d
Date : 12-APR-2016 08:02
Client ID: MW-0608-S1(033016)P
Sample Info: 50141666018
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d

Date : 12-APR-2016 08:02

Client ID: MW-0608-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666018

Purge Volume: 5.0

Operator: jlz

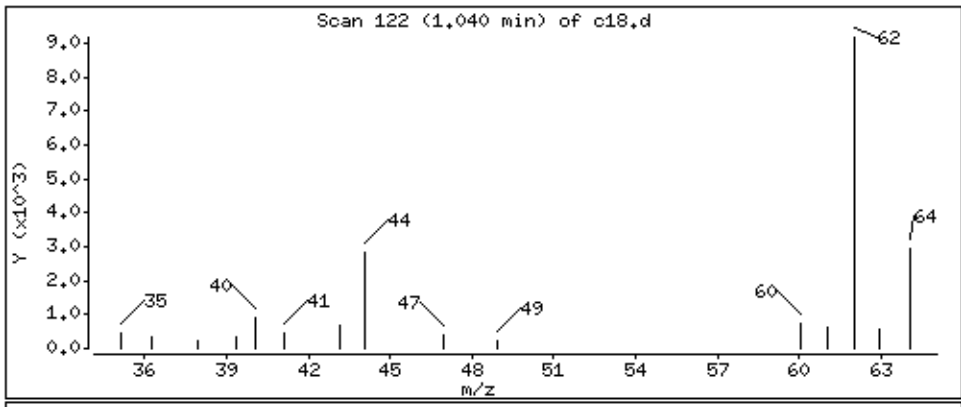
Column phase: DB-624

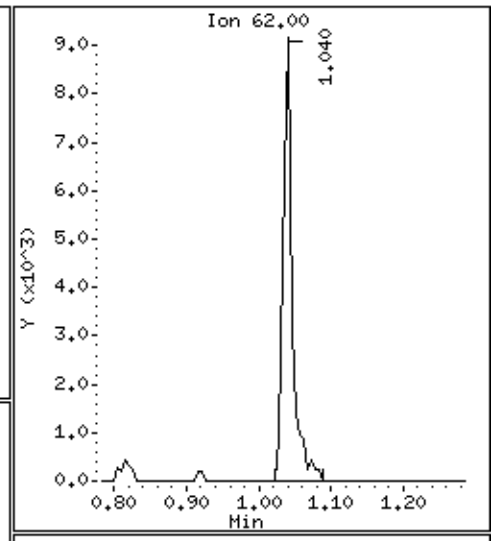
Column diameter: 0.18

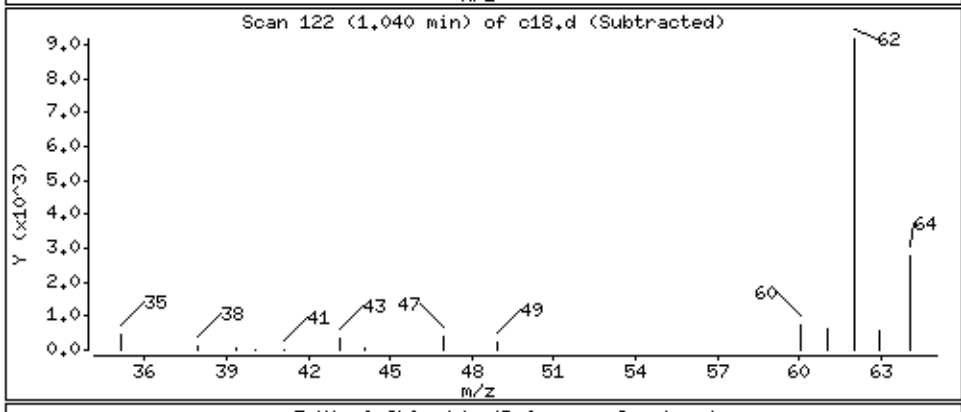
3 Vinyl Chloride

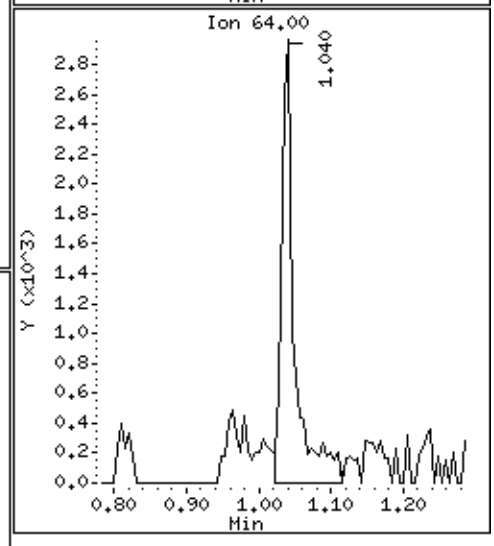
Concentration: 2.57 ppb

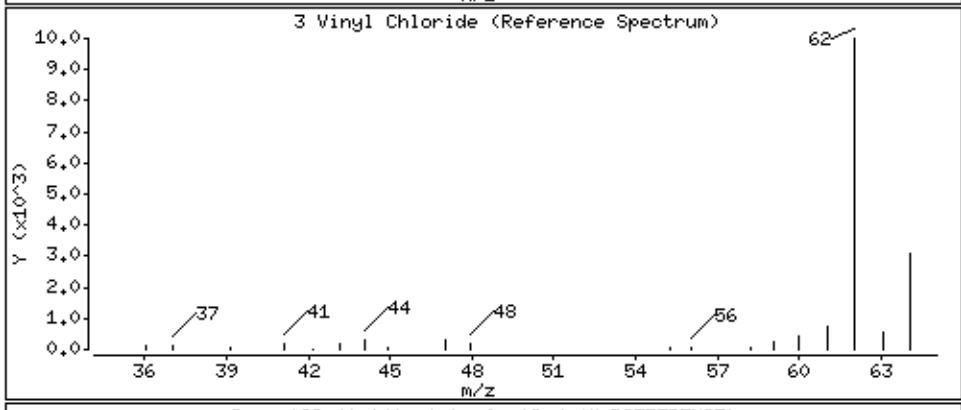
Review Code:

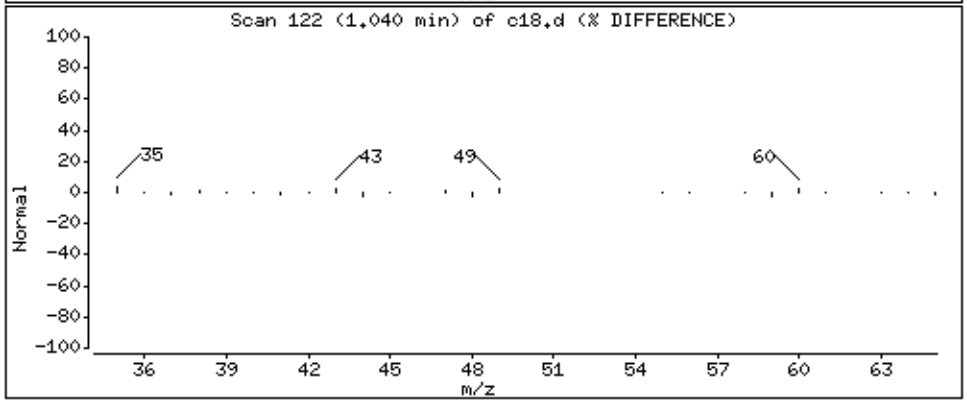












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d

Date : 12-APR-2016 08:02

Client ID: MW-0608-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666018

Purge Volume: 5.0

Operator: jlz

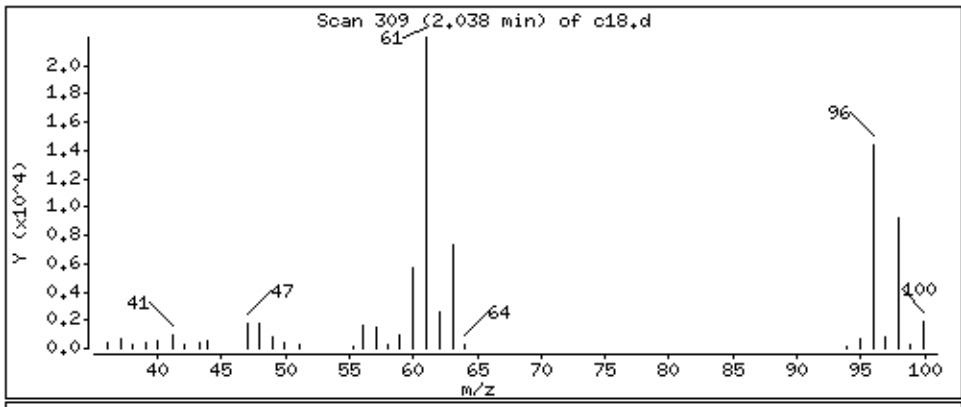
Column phase: DB-624

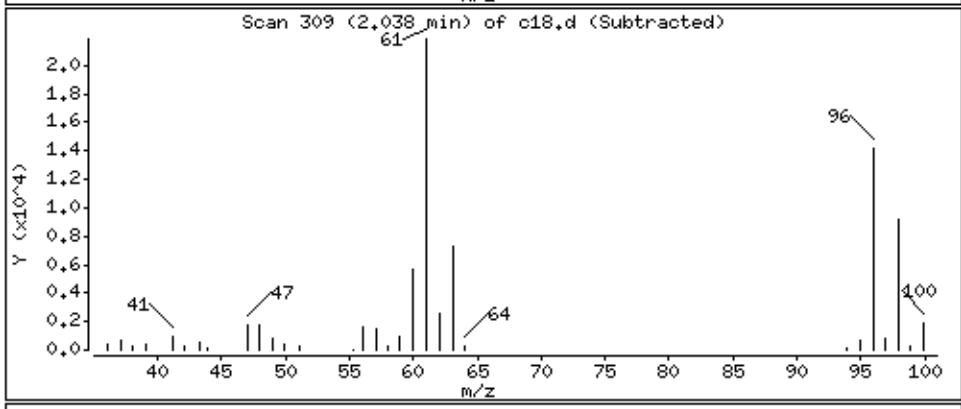
Column diameter: 0.18

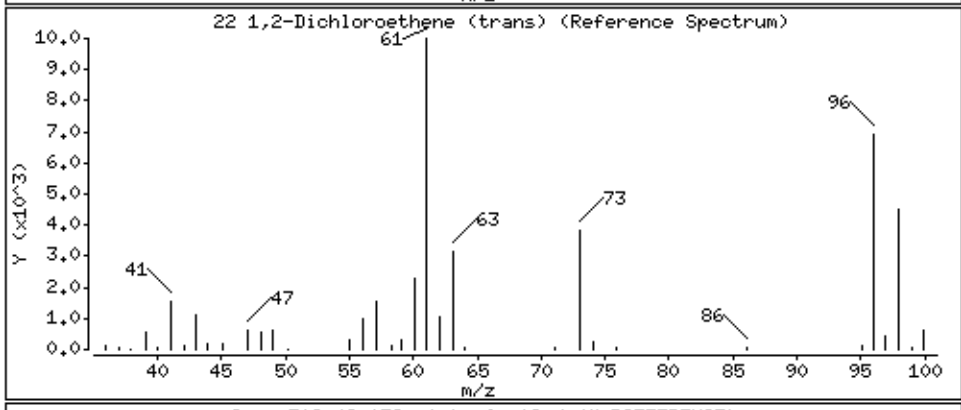
22 1,2-Dichloroethene (trans)

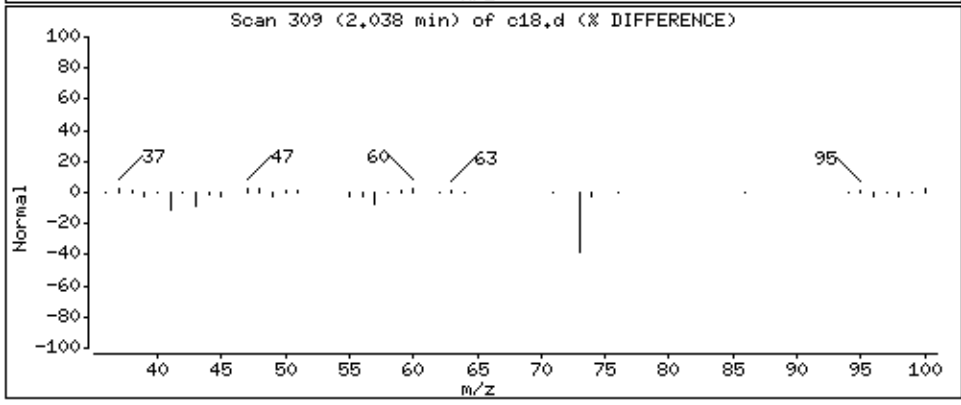
Concentration: 9.27 ppb

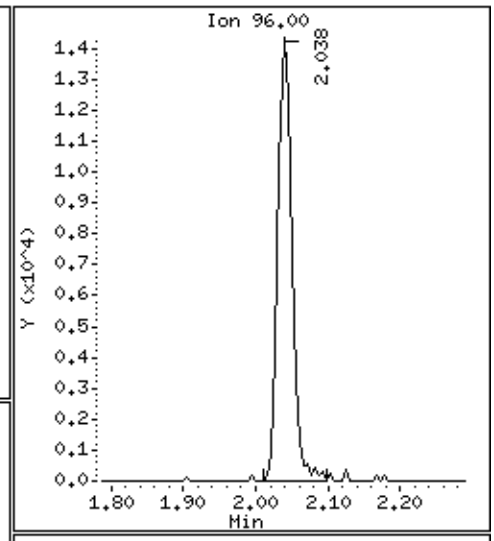
Review Code:

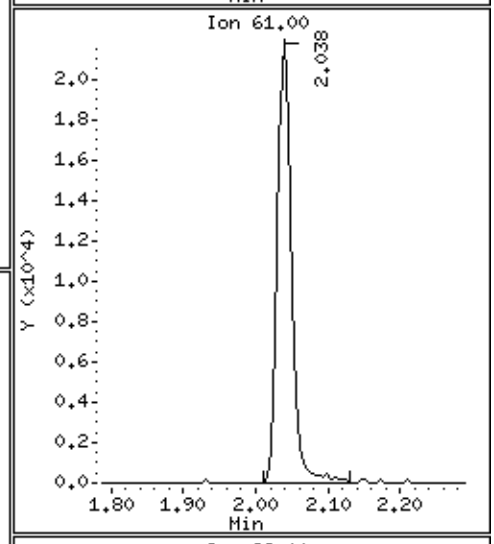


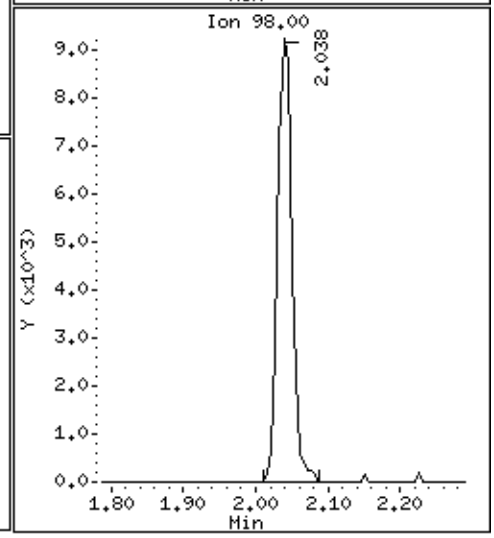












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d

Date : 12-APR-2016 08:02

Client ID: MW-0608-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666018

Purge Volume: 5.0

Operator: jlz

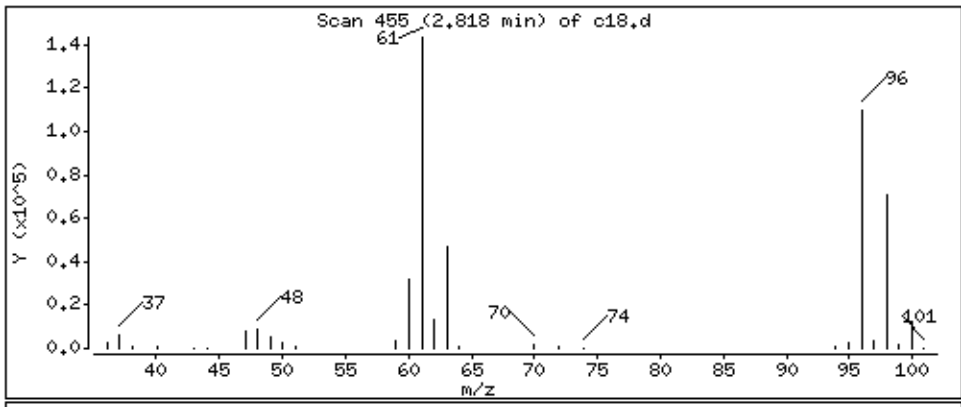
Column phase: DB-624

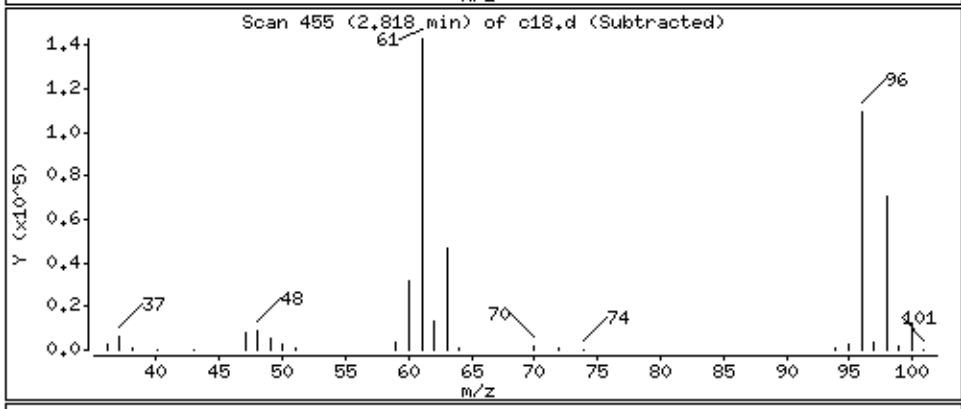
Column diameter: 0.18

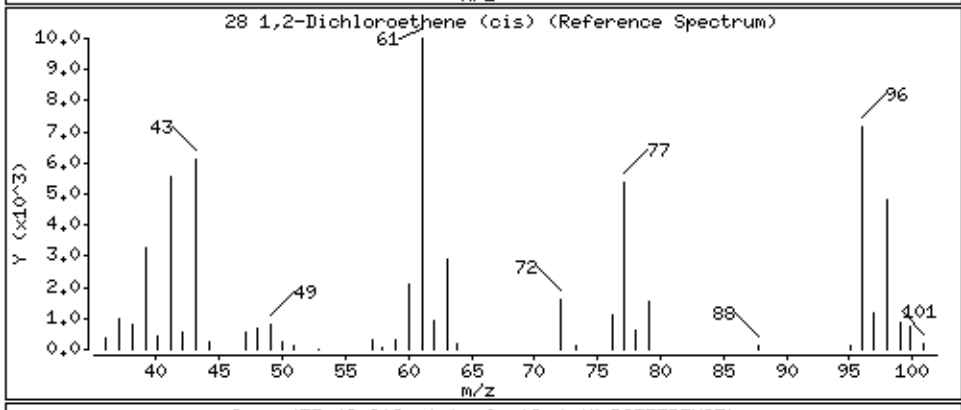
28 1,2-Dichloroethene (cis)

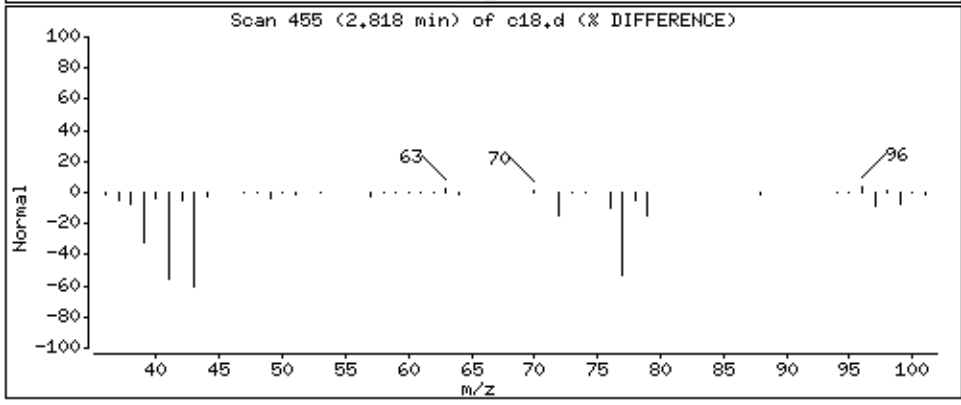
Concentration: 97.8 ppb

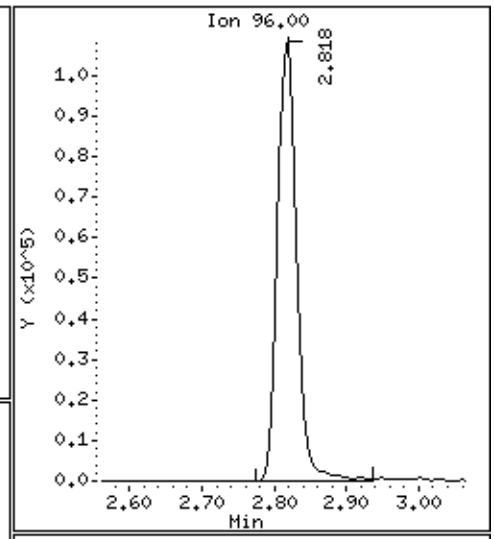
Review Code:

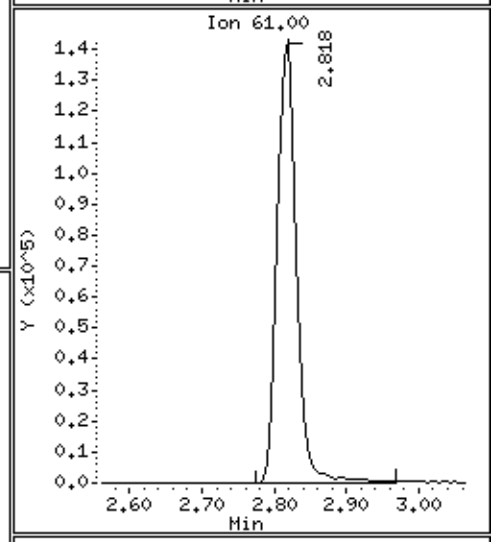


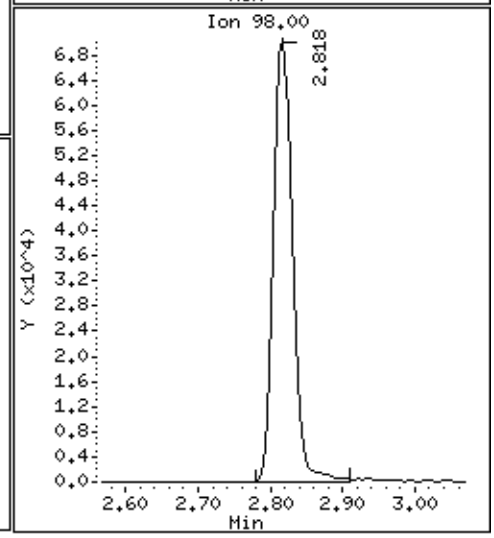












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d

Date : 12-APR-2016 08:02

Client ID: MW-0608-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666018

Purge Volume: 5.0

Operator: jlz

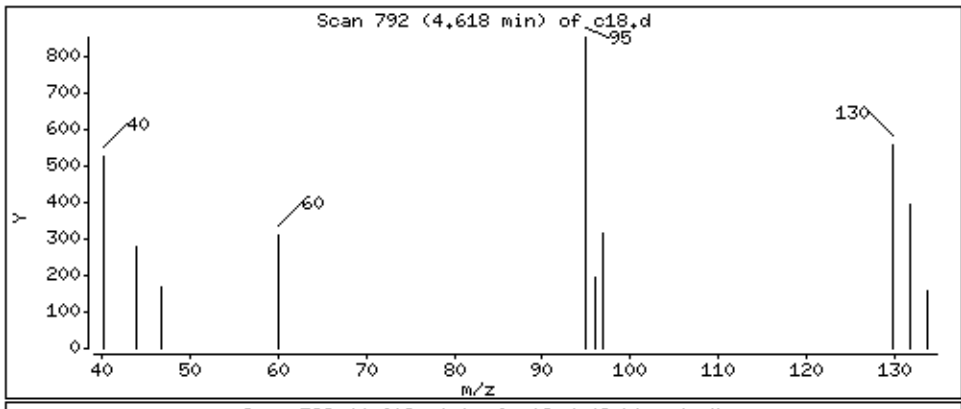
Column phase: DB-624

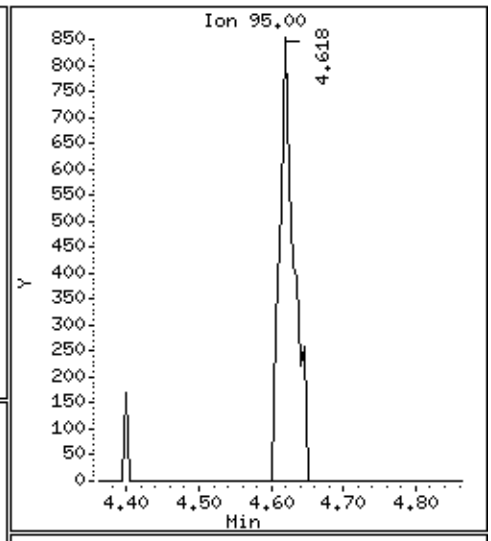
Column diameter: 0.18

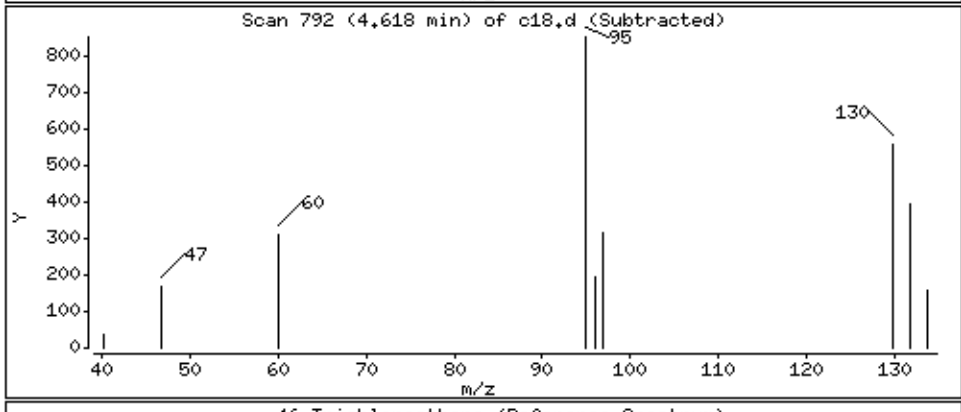
46 Trichloroethene

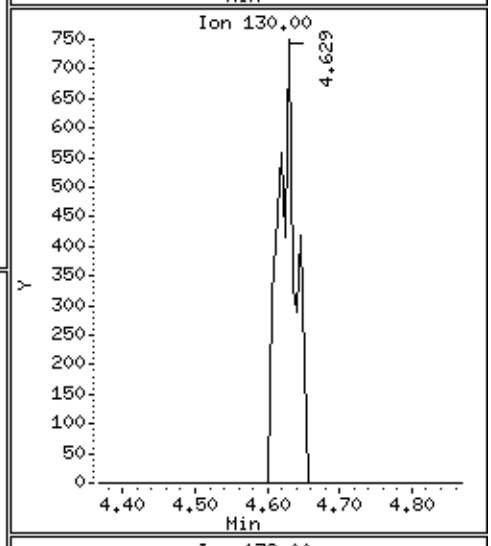
Concentration: 0.637 ppb

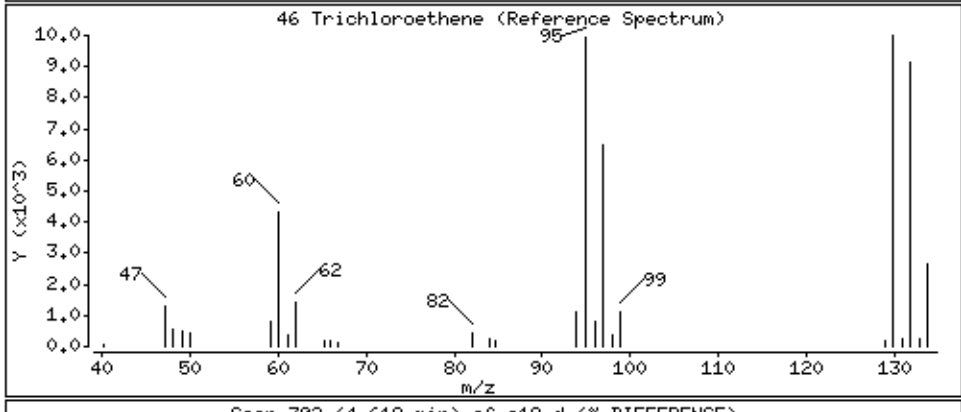
Review Code:

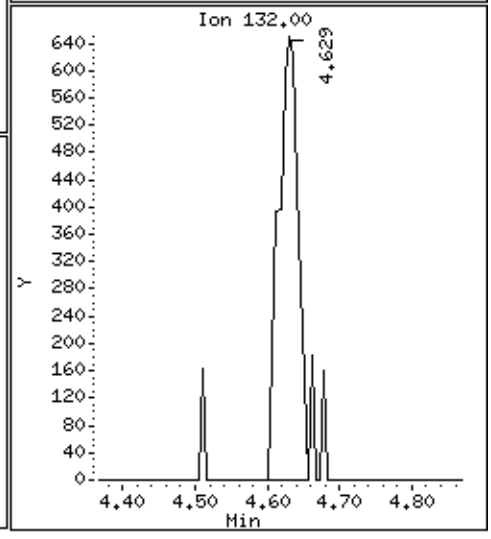


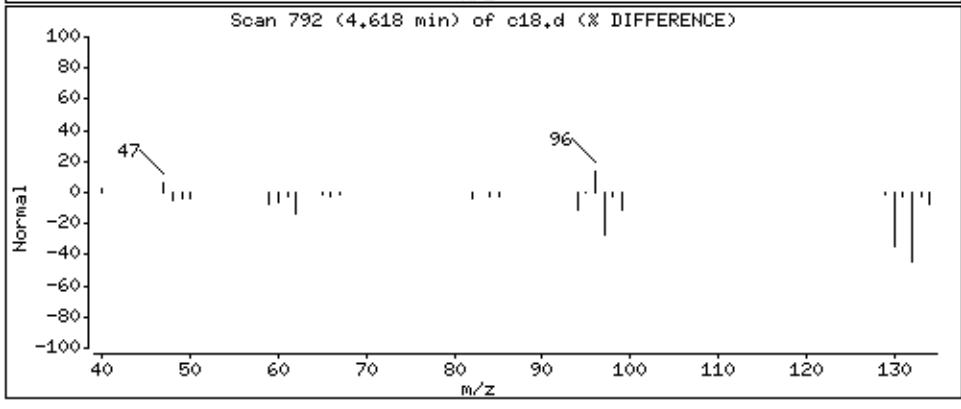












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c18.d

Date : 12-APR-2016 08:02

Client ID: MW-0608-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666018

Purge Volume: 5.0

Operator: jlz

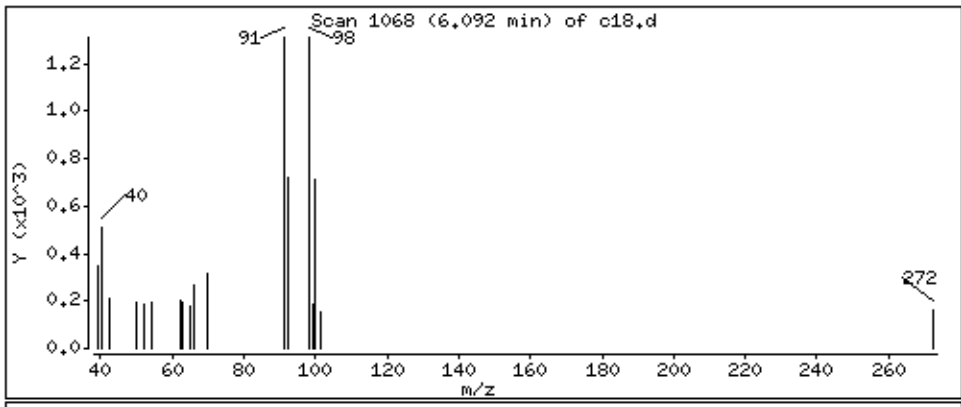
Column phase: DB-624

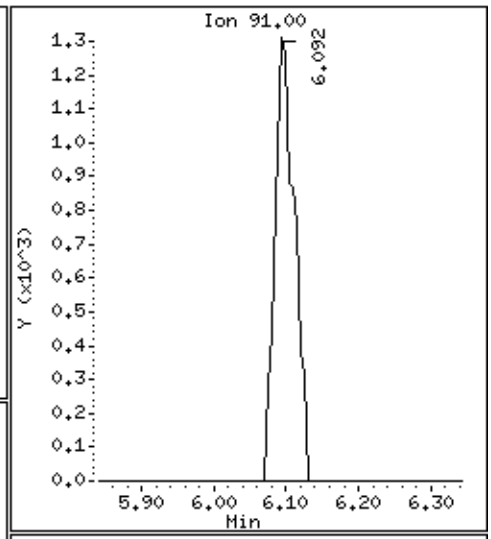
Column diameter: 0.18

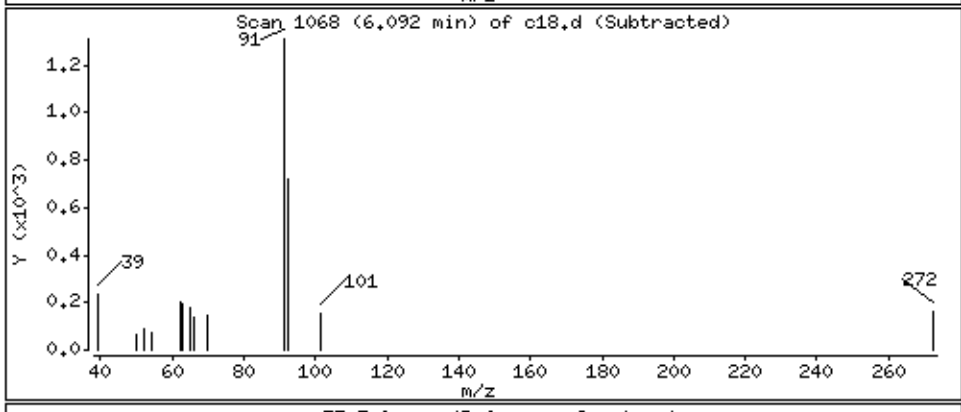
57 Toluene

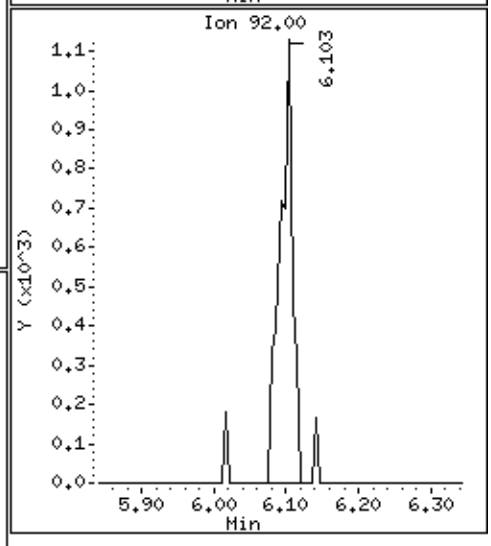
Concentration: 0.325 ppb

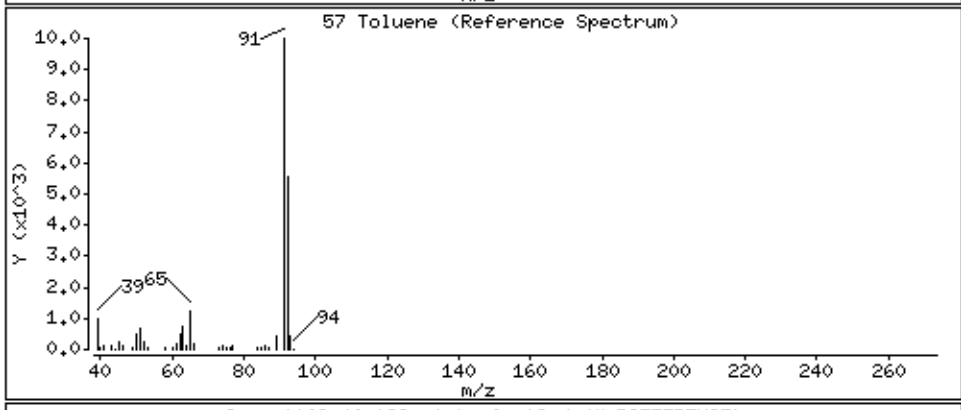
Review Code:

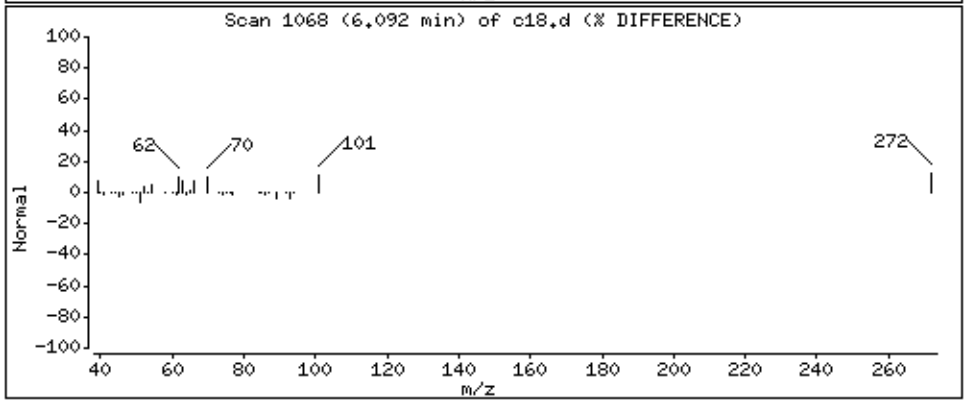












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c18.d
Injection Date: 12-APR-2016 08:02
Instrument: 50mv3a.i
Lab Sample ID: 50141666018
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0609-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 06:10 Lab Sample ID: 50141666019

Date Analyzed: 04/12/2016 06:10 Lab File ID: B041116.B\D14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	18.6	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0609-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 06:10 Lab Sample ID: 50141666019

Date Analyzed: 04/12/2016 06:10 Lab File ID: B041116.B\D14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	7.9	
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

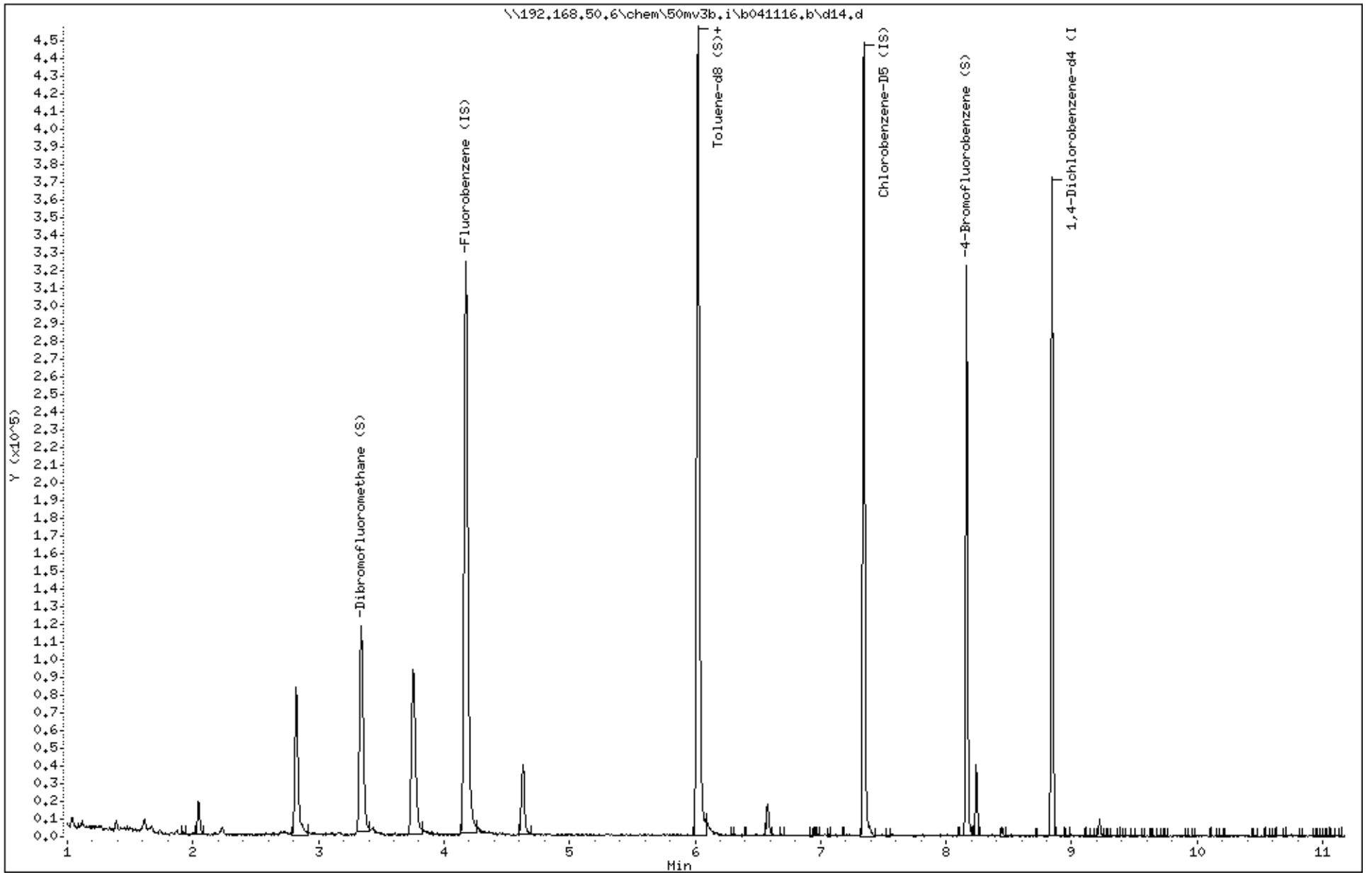
Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d
Lab Smp Id: 50141666019 Client Smp ID: MW-0609-S1(033016)P
Inj Date : 12-APR-2016 06:10
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666019
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 76
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.616	1.611	(0.388)	5675	12.5899	12.6	
	22 1,2-Dichloroethene (trans)	96	2.049	2.044	(0.491)	4359	2.43060	2.43	
	28 1,2-Dichloroethene (cis)	96	2.823	2.824	(0.677)	33120	18.6275	18.6	
$	35 Dibromofluoromethane (S)	113	3.342	3.342	(0.801)	79706	52.8273	52.8	
*	44 Fluorobenzene (IS)	96	4.169	4.175	(1.000)	329517	50.0000		
	45 Trichloroethene	95	4.623	4.624	(1.109)	13088	7.94956	7.95	
$	55 Toluene-d8 (S)	98	6.023	6.023	(0.820)	273020	50.3956	50.4	
	56 Toluene	91	6.097	6.092	(0.830)	2192	0.31066	0.311	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	167654	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	61203	41.5536	41.6	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.843	(1.000)	60944	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d
Date : 12-APR-2016 06:10
Client ID: MW-0609-S1(033016)P
Instrument: 50mv3b.i
Sample Info: 50141666019
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d

Date : 12-APR-2016 06:10

Client ID: MW-0609-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666019

Purge Volume: 5.0

Operator: jlz

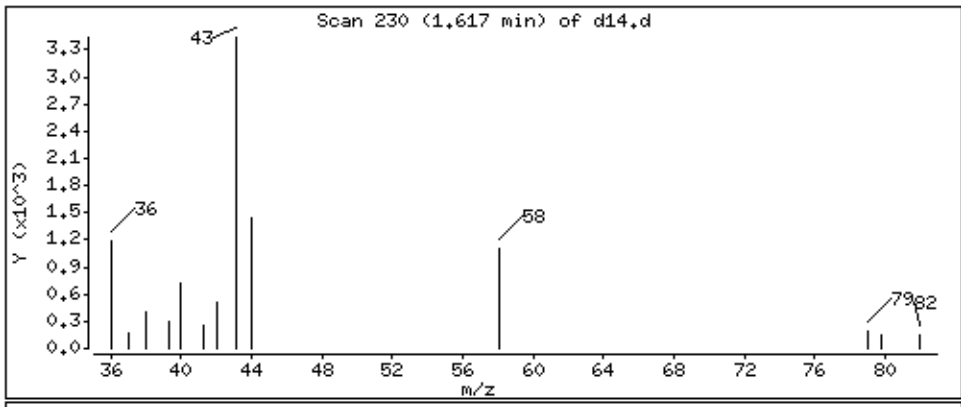
Column phase: DB-624

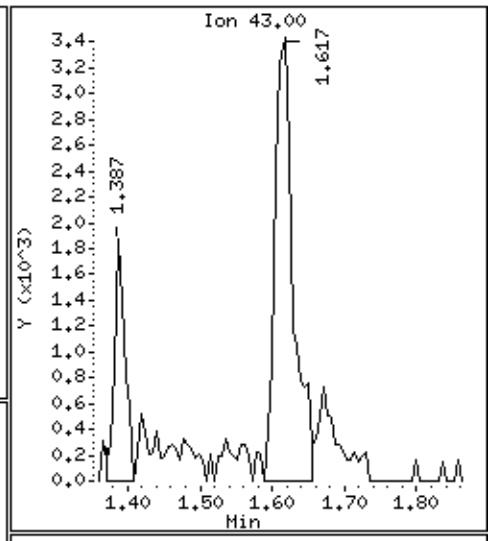
Column diameter: 0.18

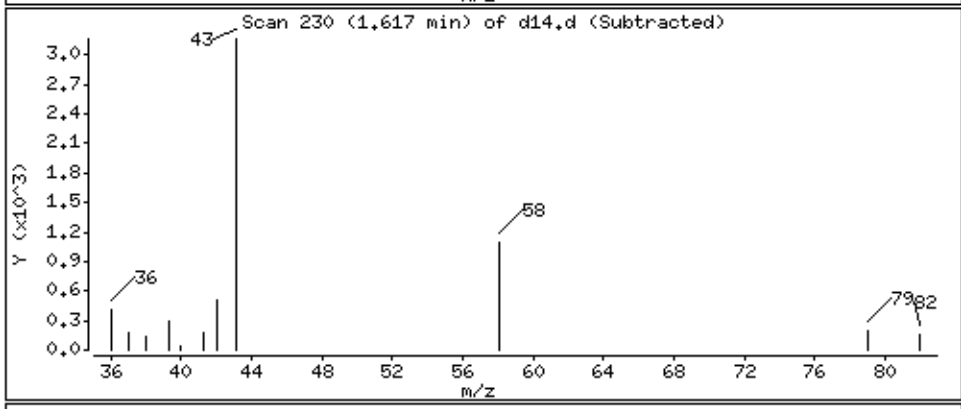
12 Acetone

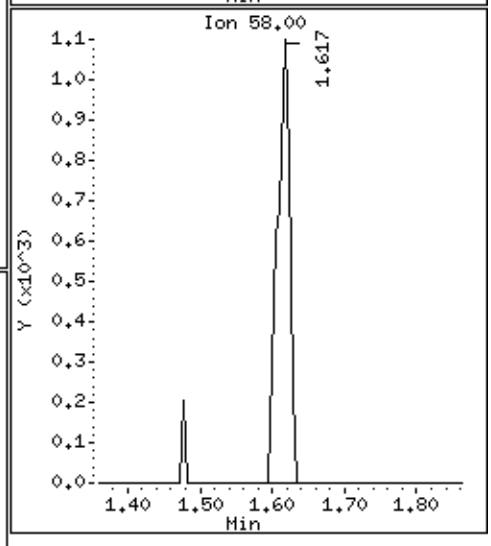
Concentration: 12.6 ppb

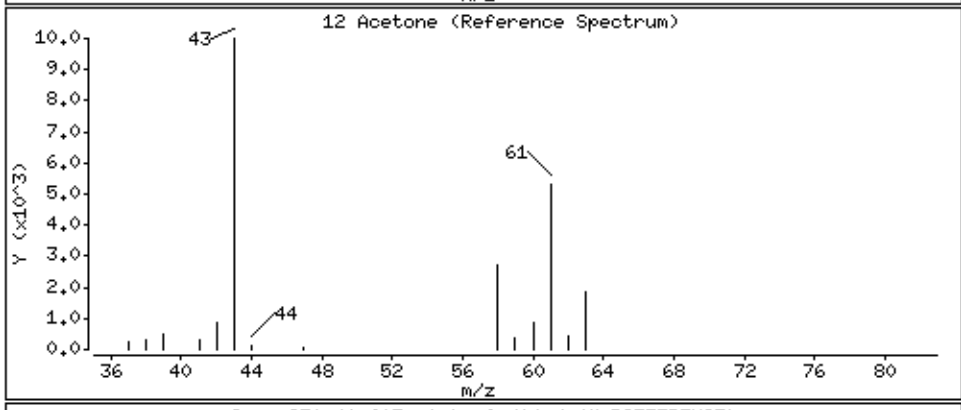
Review Code:

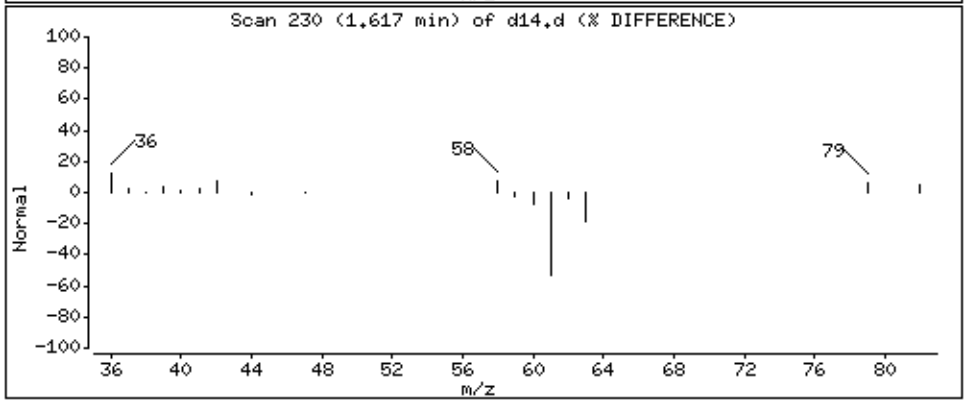












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d

Date : 12-APR-2016 06:10

Client ID: MW-0609-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666019

Purge Volume: 5.0

Operator: jlz

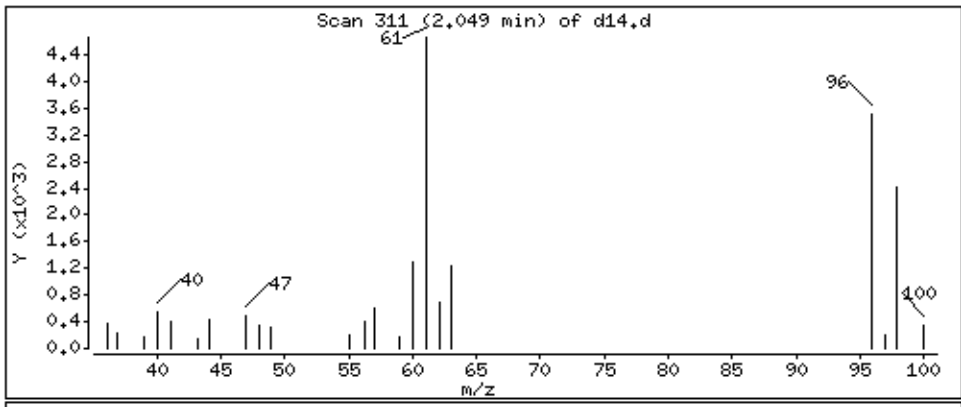
Column phase: DB-624

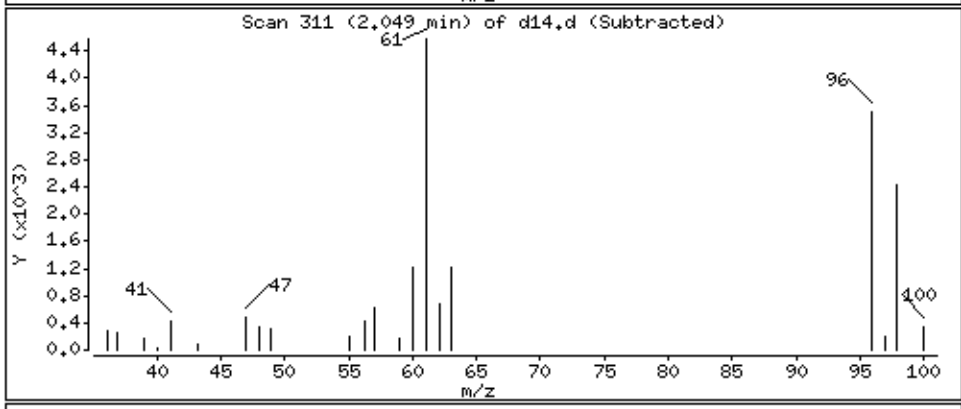
Column diameter: 0.18

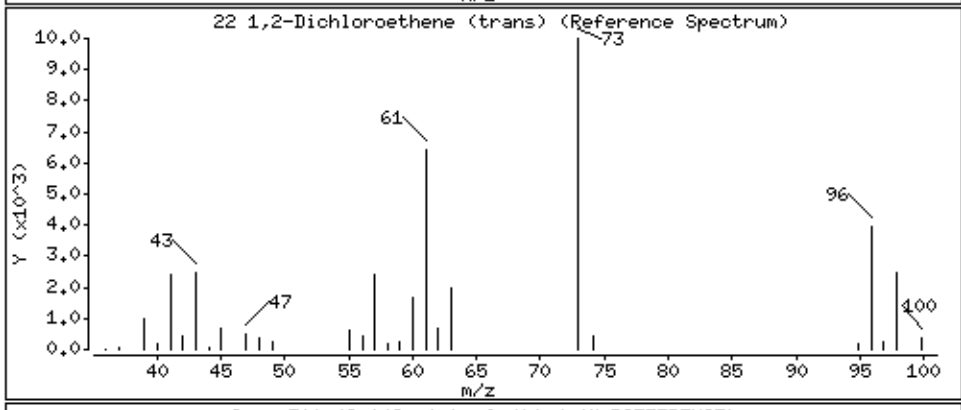
22 1,2-Dichloroethene (trans)

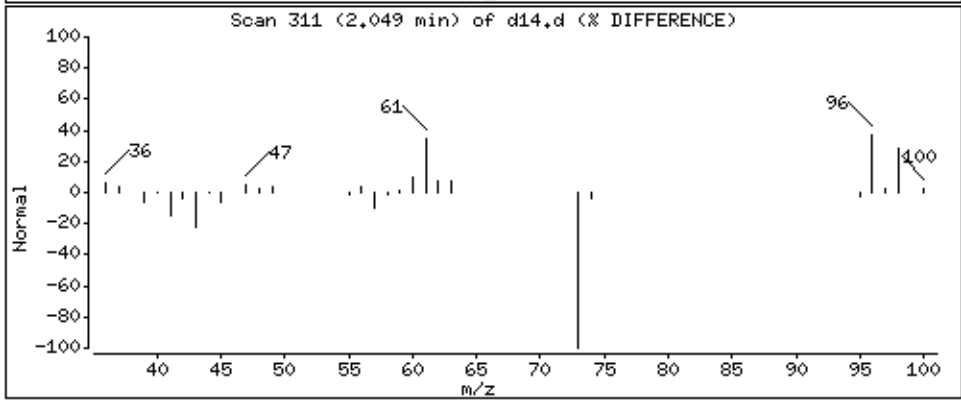
Concentration: 2.43 ppb

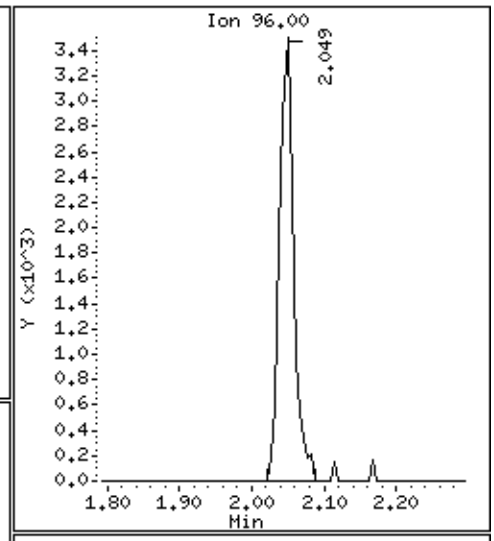
Review Code:

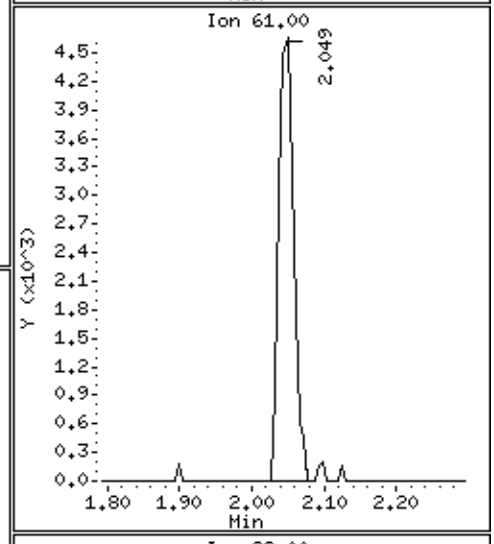


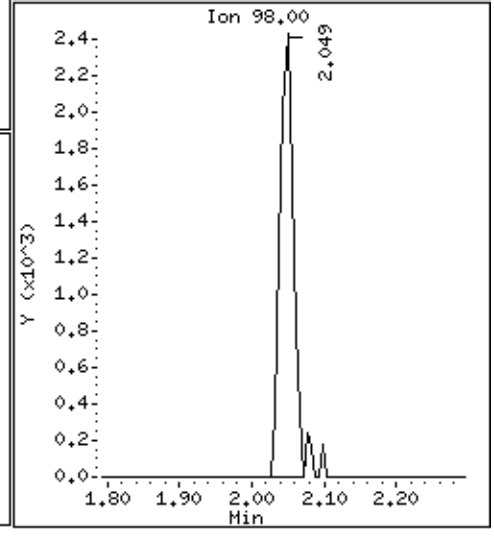












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d

Date : 12-APR-2016 06:10

Client ID: MW-0609-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666019

Purge Volume: 5.0

Operator: jlz

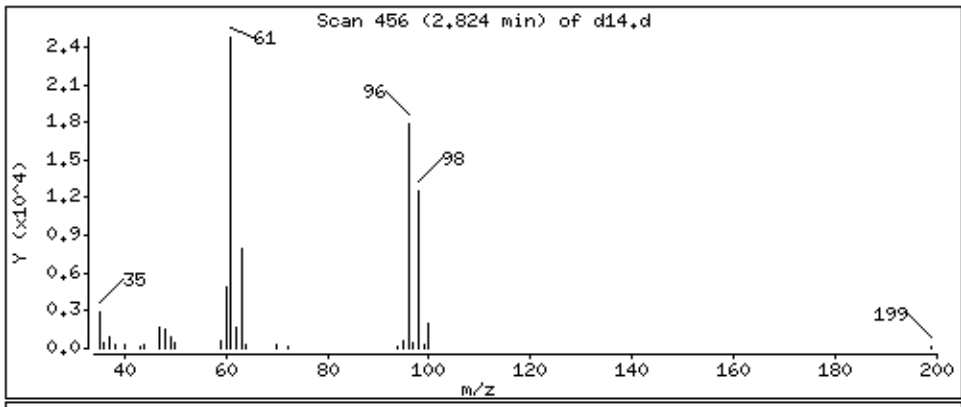
Column phase: DB-624

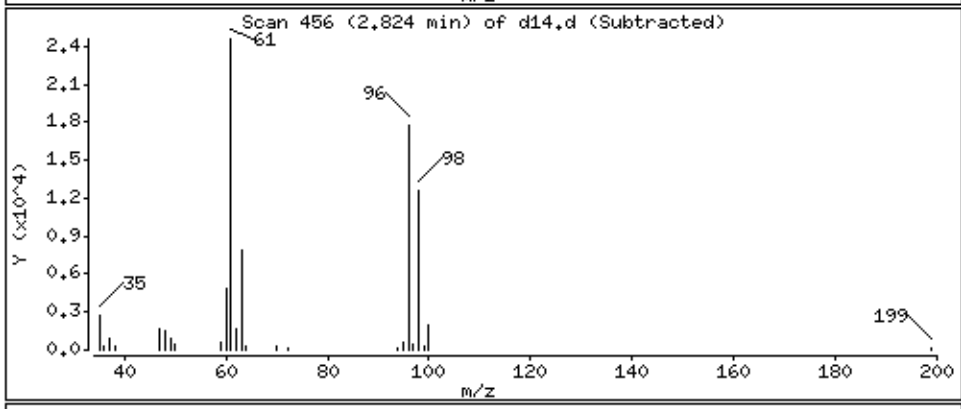
Column diameter: 0.18

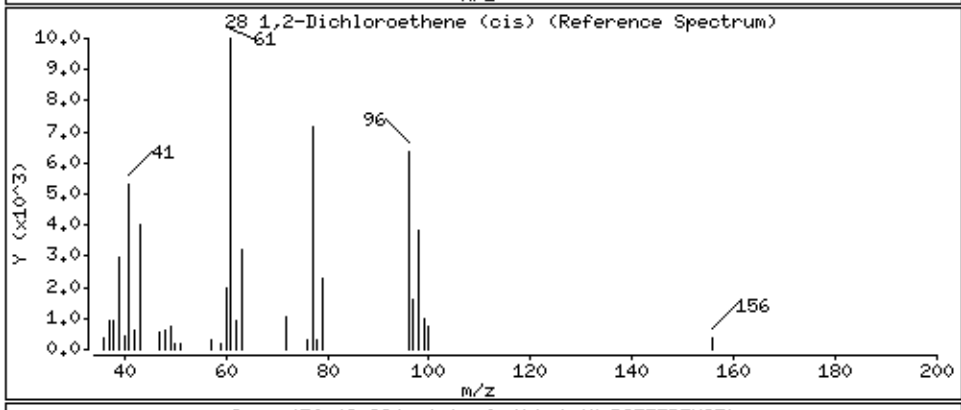
28 1,2-Dichloroethene (cis)

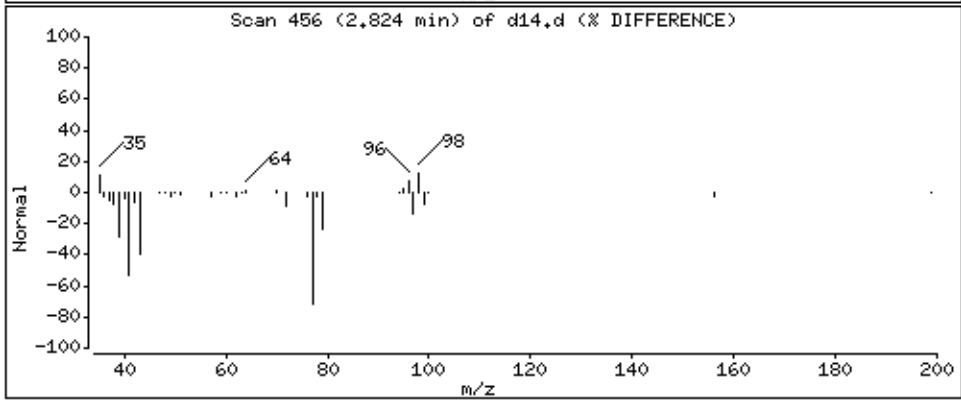
Concentration: 18.6 ppb

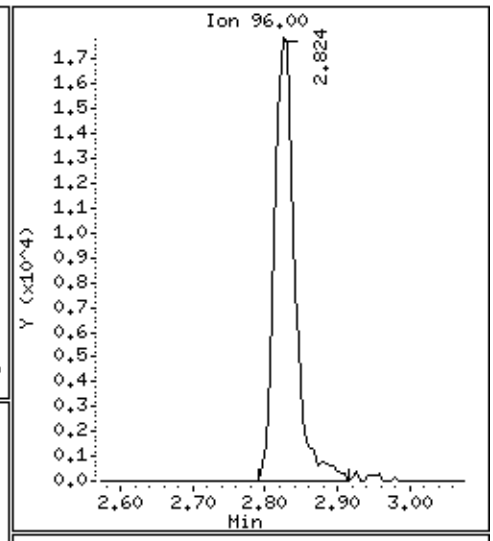
Review Code:

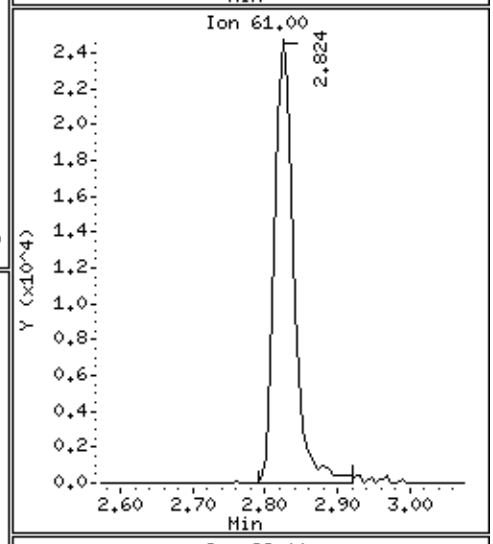


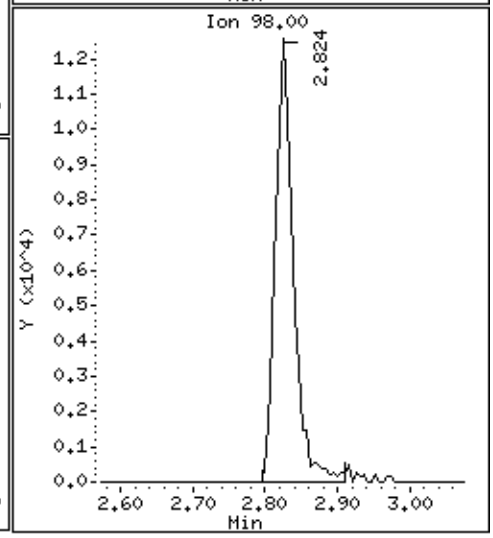












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d

Date : 12-APR-2016 06:10

Client ID: MW-0609-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666019

Purge Volume: 5.0

Operator: jlz

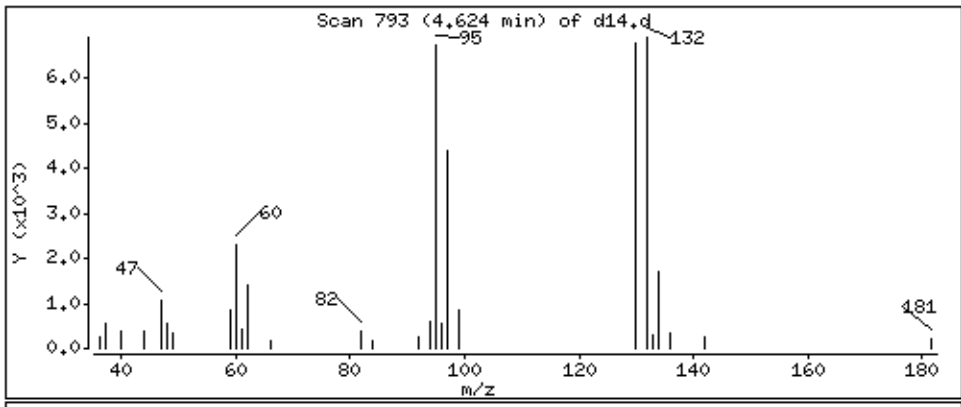
Column phase: DB-624

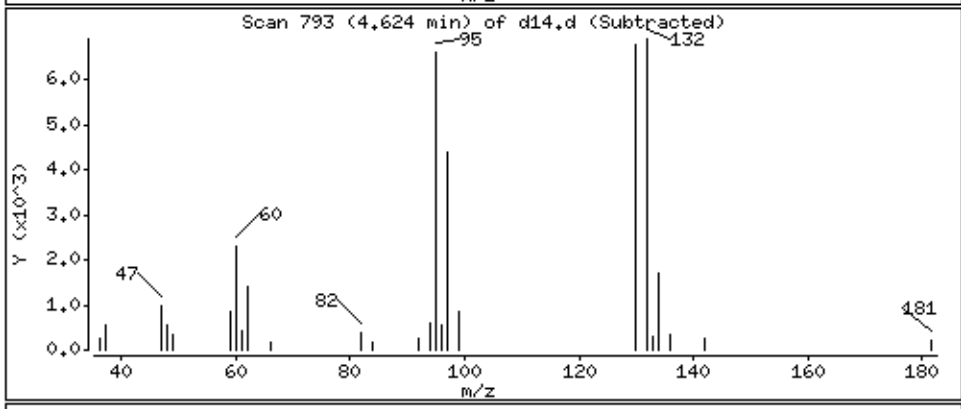
Column diameter: 0.18

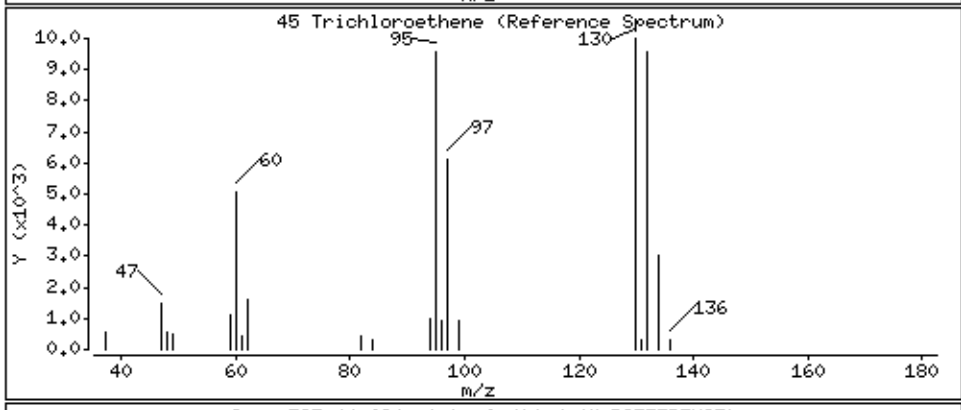
45 Trichloroethene

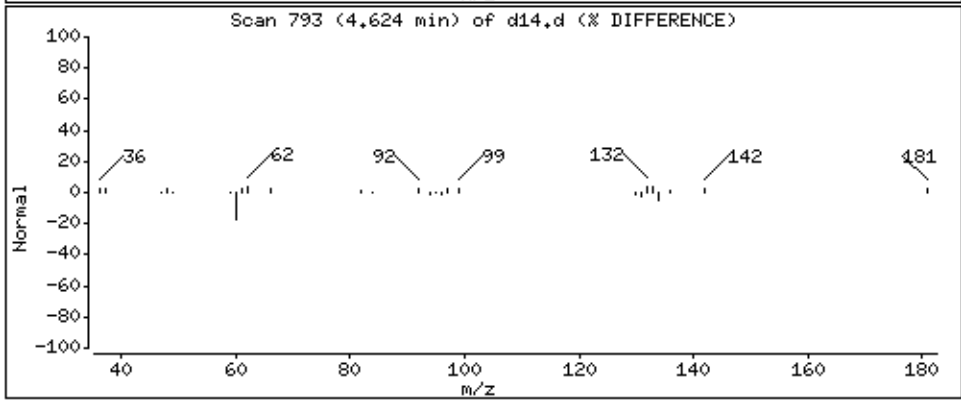
Concentration: 7.95 ppb

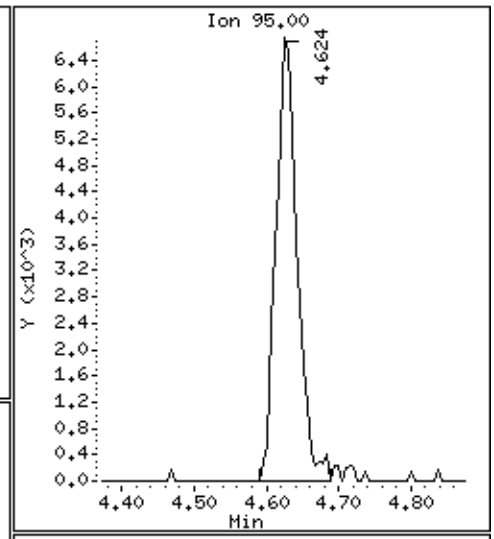
Review Code:

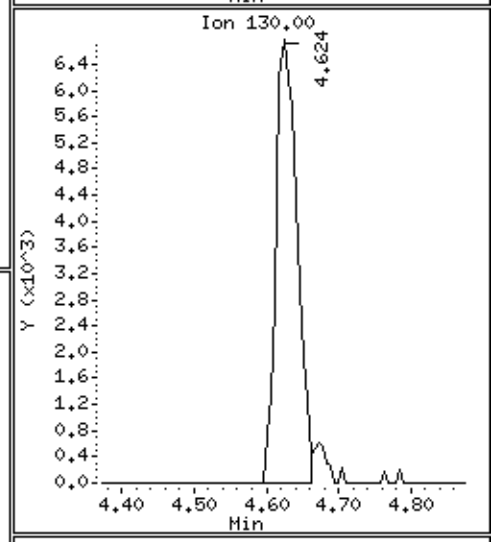


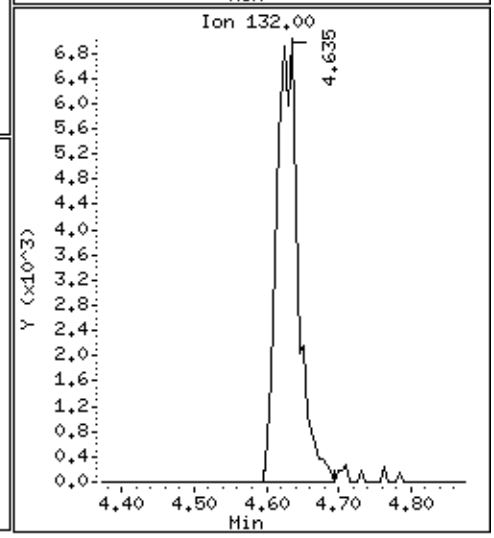












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d14.d

Date : 12-APR-2016 06:10

Client ID: MW-0609-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666019

Purge Volume: 5.0

Operator: jlz

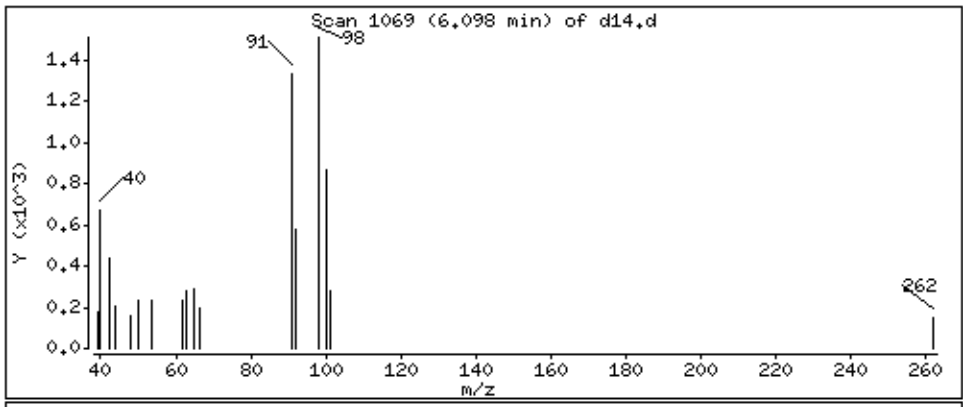
Column phase: DB-624

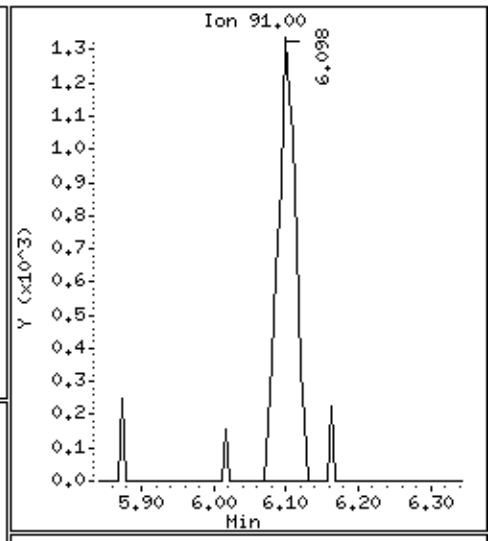
Column diameter: 0.18

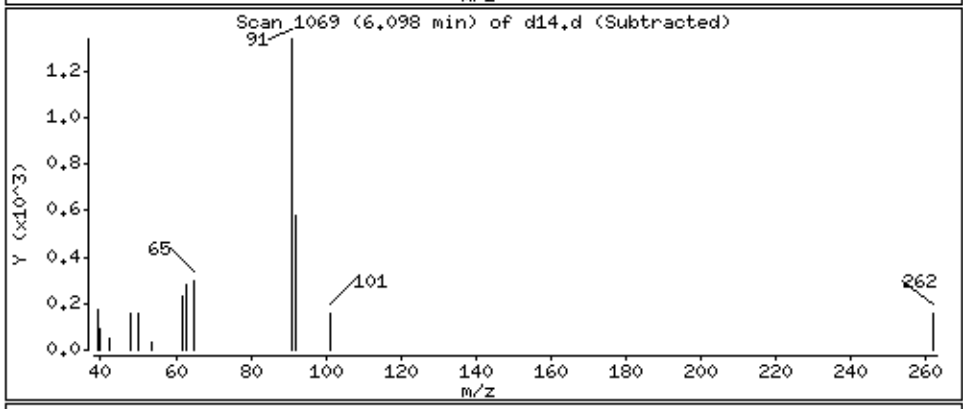
56 Toluene

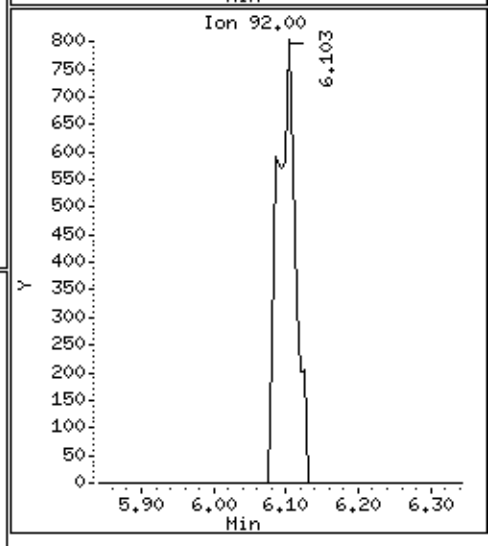
Concentration: 0.311 ppb

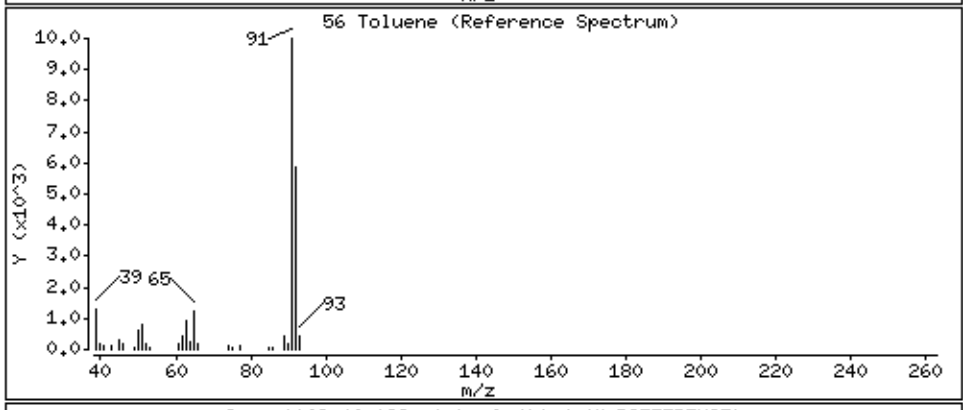
Review Code:

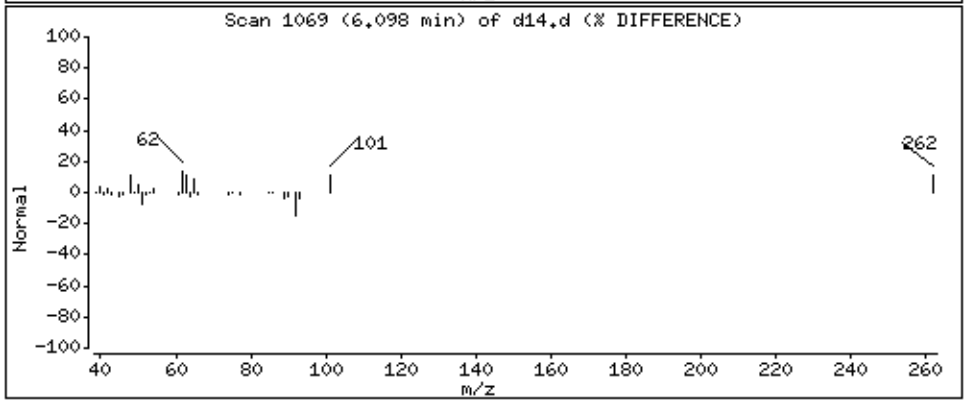












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d14.d
Injection Date: 12-APR-2016 06:10
Instrument: 50mv3b.i
Lab Sample ID: 50141666019
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0610-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:54 Lab Sample ID: 50141666020

Date Analyzed: 04/12/2016 01:54 Lab File ID: B041116.B\D06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0610-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 01:54 Lab Sample ID: 50141666020

Date Analyzed: 04/12/2016 01:54 Lab File ID: B041116.B\D06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d06.d
Lab Smp Id: 50141666020 Client Smp ID: MW-0610-S1(033016)P
Inj Date : 12-APR-2016 01:54
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666020
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

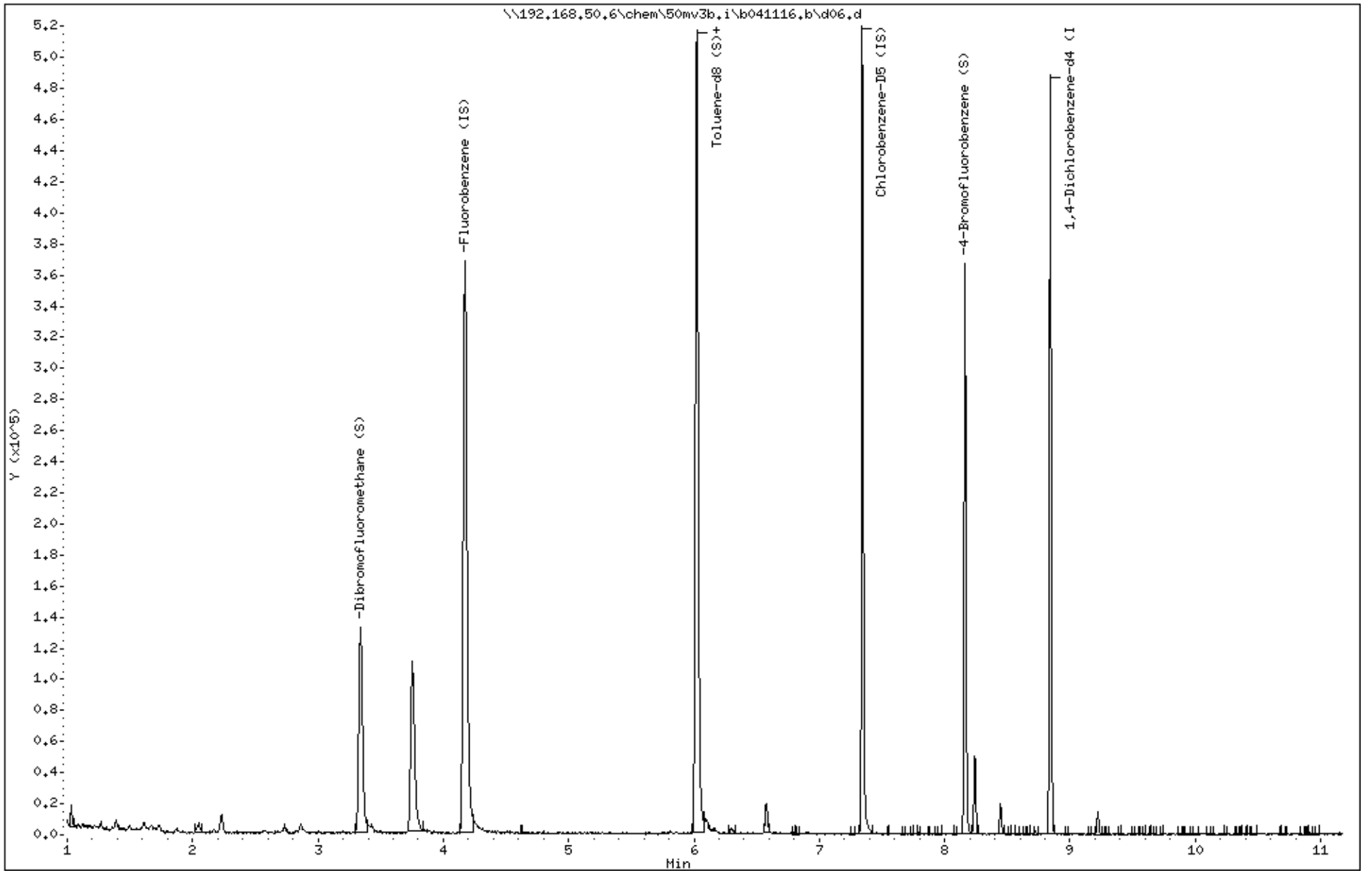
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
$	35 Dibromofluoromethane (S)	113	3.336	3.342	(0.799)	91292	52.0757	52.1	
*	44 Fluorobenzene (IS)	96	4.175	4.175	(1.000)	382862	50.0000		
$	55 Toluene-d8 (S)	98	6.023	6.023	(0.820)	315892	51.2827	51.3	
	56 Toluene	91	6.103	6.092	(0.831)	2802	0.34926	0.349	
*	65 Chlorobenzene-D5 (IS)	117	7.342	7.348	(1.000)	190625	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.165	8.165	(1.112)	69726	41.6356	41.6	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.843	(1.000)	69298	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d06.d
Date : 12-APR-2016 01:54
Client ID: MW-0610-S1(033016)P
Sample Info: 50141666020
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d06.d

Date : 12-APR-2016 01:54

Client ID: MW-0610-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666020

Purge Volume: 5.0

Operator: jlz

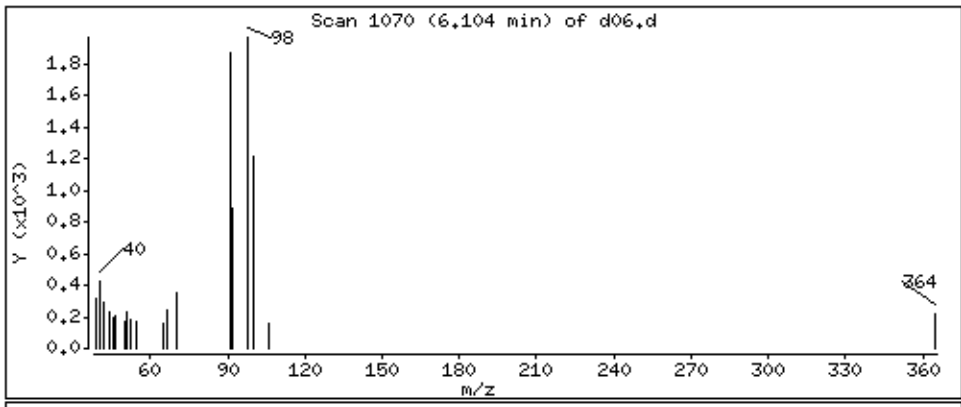
Column phase: DB-624

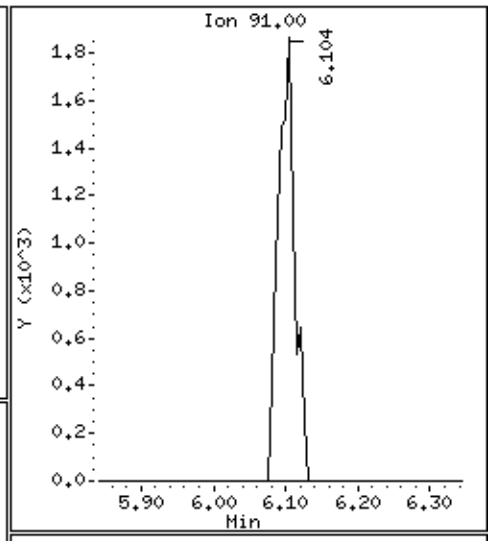
Column diameter: 0.18

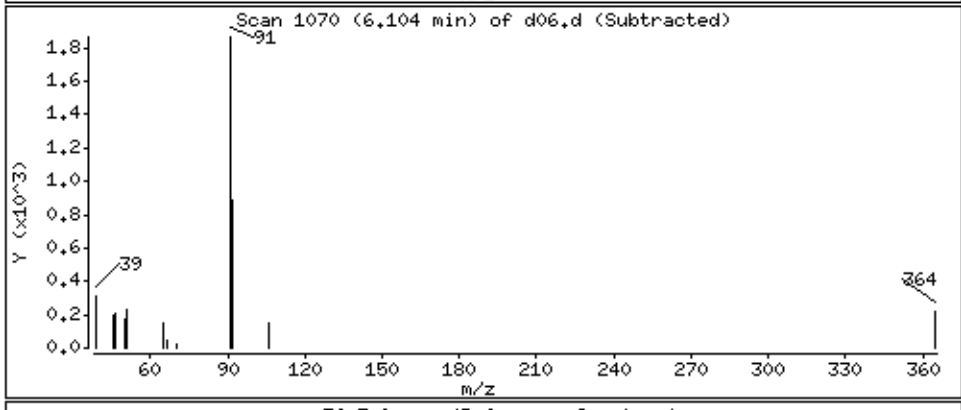
56 Toluene

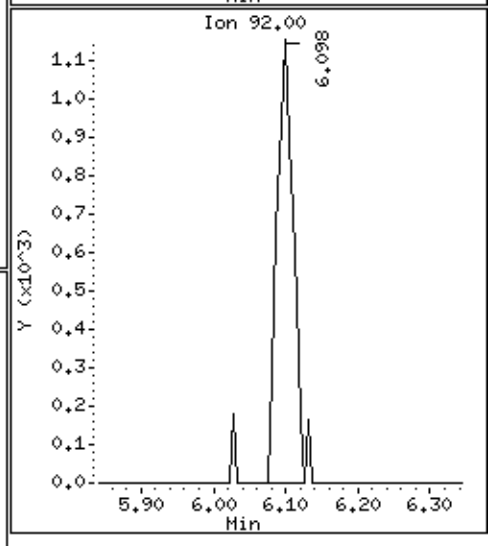
Concentration: 0.349 ppb

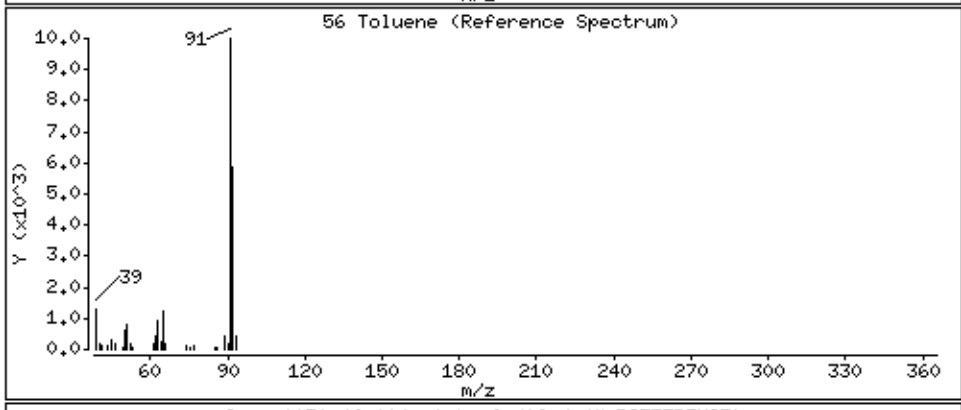
Review Code:

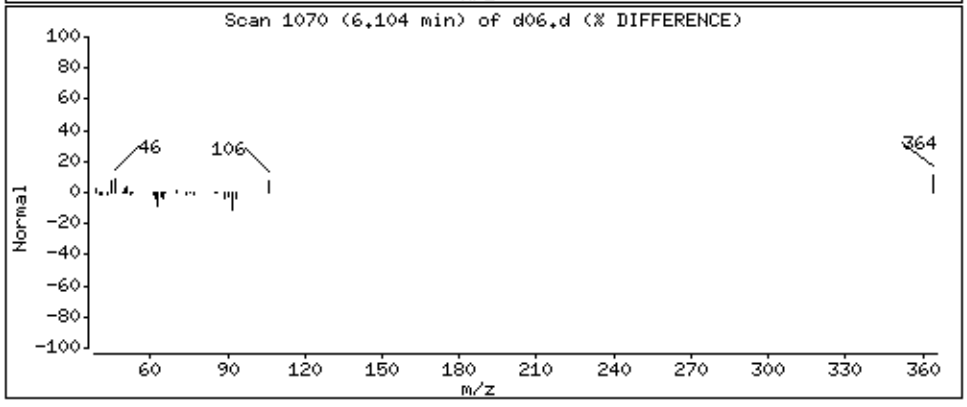












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d06.d
Injection Date: 12-APR-2016 01:54
Instrument: 50mv3b.i
Lab Sample ID: 50141666020
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0613-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:26 Lab Sample ID: 50141666021

Date Analyzed: 04/12/2016 02:26 Lab File ID: B041116.B\D07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0613-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:26 Lab Sample ID: 50141666021

Date Analyzed: 04/12/2016 02:26 Lab File ID: B041116.B\D07.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d07.d
Lab Smp Id: 50141666021 Client Smp ID: MW-0613-S1(033016)P
Inj Date : 12-APR-2016 02:26
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666021
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

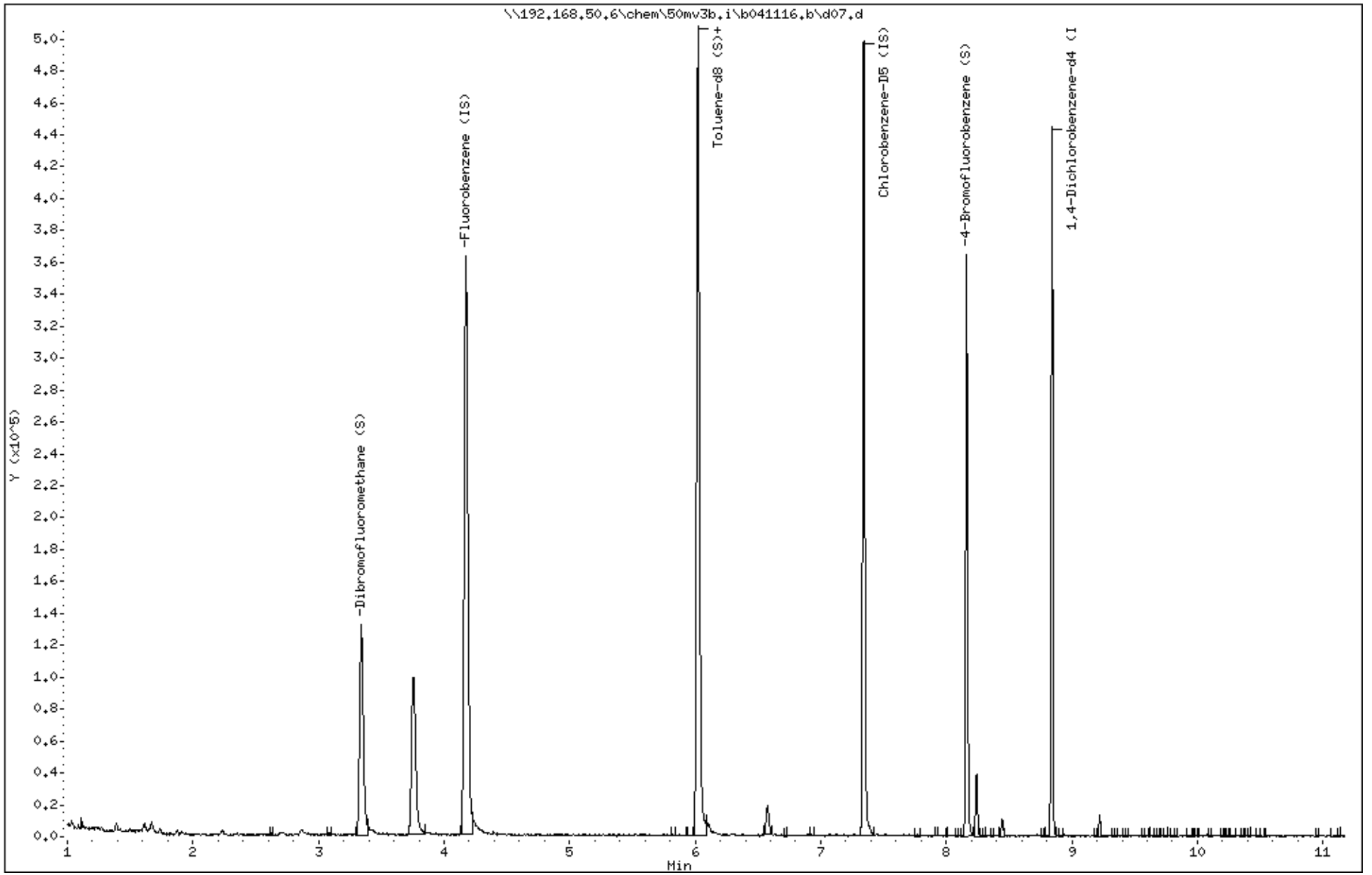
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
$ 35 Dibromofluoromethane (S)	113	3.340	3.342	(0.800)	85962	51.2796	51.3	
* 44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	366106	50.0000		
$ 55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	298205	49.7830	49.8	
56 Toluene	91	6.096	6.092	(0.830)	2274	0.29147	0.291	
* 65 Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	185373	50.0000		
$ 74 4-Bromofluorobenzene (S)	95	8.163	8.165	(1.111)	67680	41.5589	41.6	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	67554	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d07.d
Date : 12-APR-2016 02:26
Client ID: MW-0613-S1(033016)P
Sample Info: 50141666021
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d07.d

Date : 12-APR-2016 02:26

Client ID: MW-0613-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666021

Purge Volume: 5.0

Operator: jlz

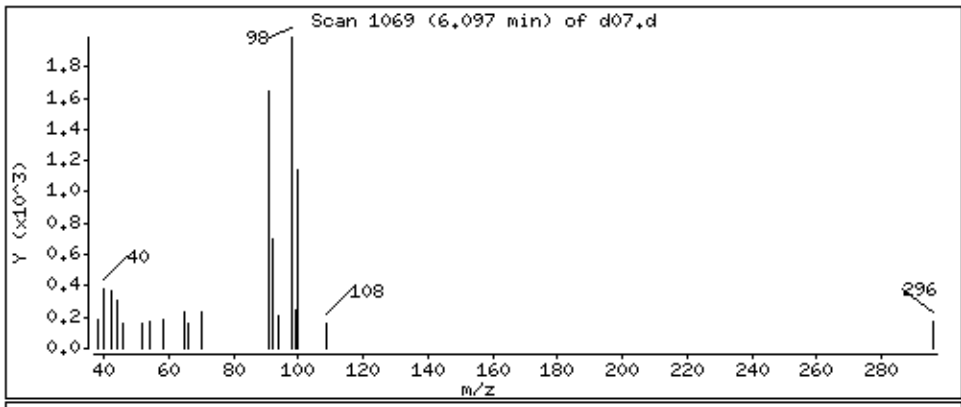
Column phase: DB-624

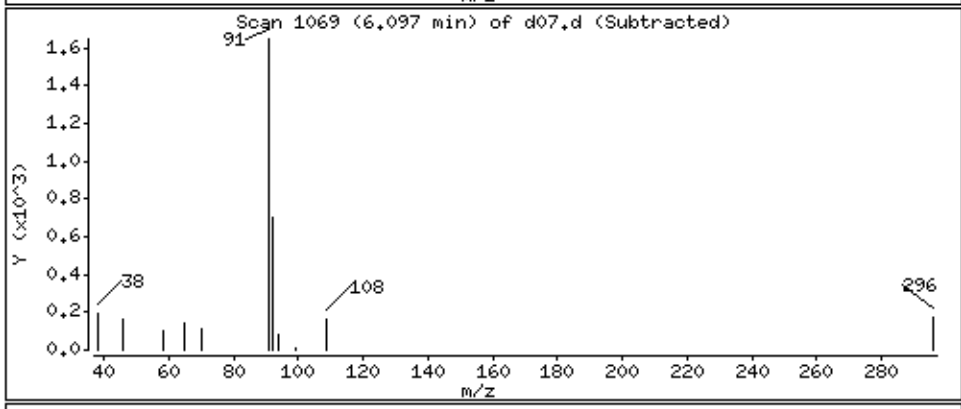
Column diameter: 0.18

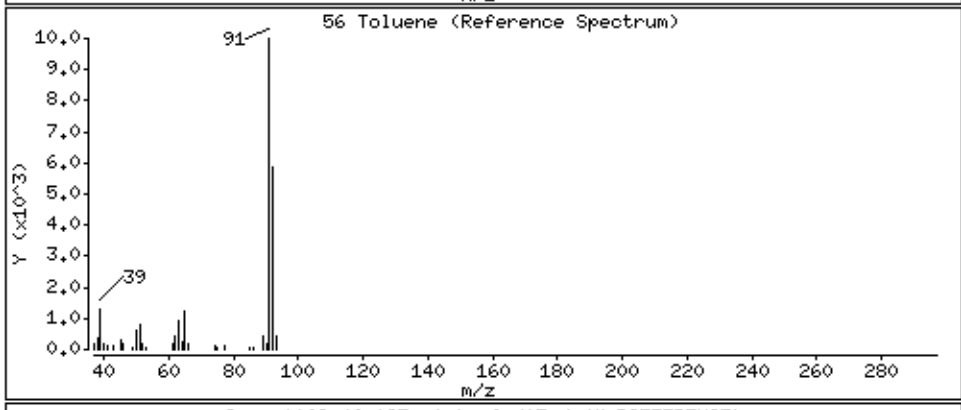
56 Toluene

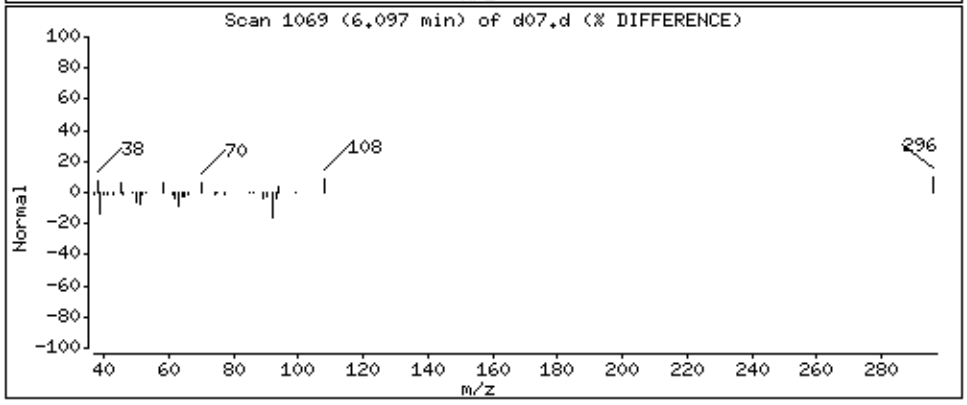
Concentration: 0.291 ppb

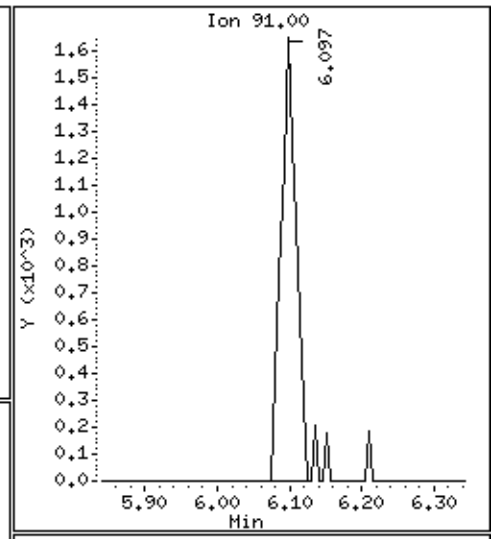
Review Code:

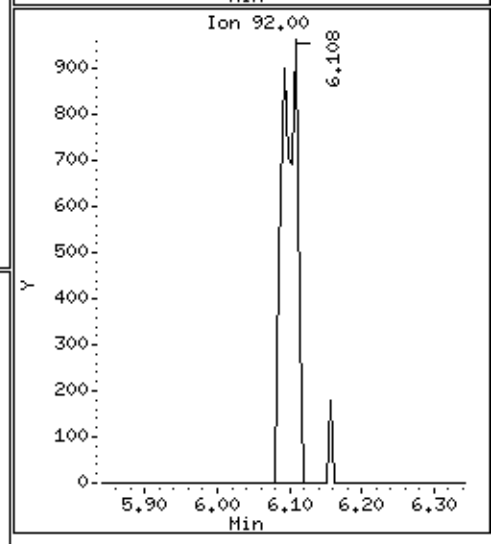












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d07.d
Injection Date: 12-APR-2016 02:26
Instrument: 50mv3b.i
Lab Sample ID: 50141666021
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

EB-2(033016)-LM

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:58 Lab Sample ID: 50141666022

Date Analyzed: 04/12/2016 02:58 Lab File ID: B041116.B\D08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

EB-2(033016)-LM

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 02:58 Lab Sample ID: 50141666022

Date Analyzed: 04/12/2016 02:58 Lab File ID: B041116.B\D08.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d08.d
Lab Smp Id: 50141666022 Client Smp ID: EB-2(033016)-LM
Inj Date : 12-APR-2016 02:58
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666022
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

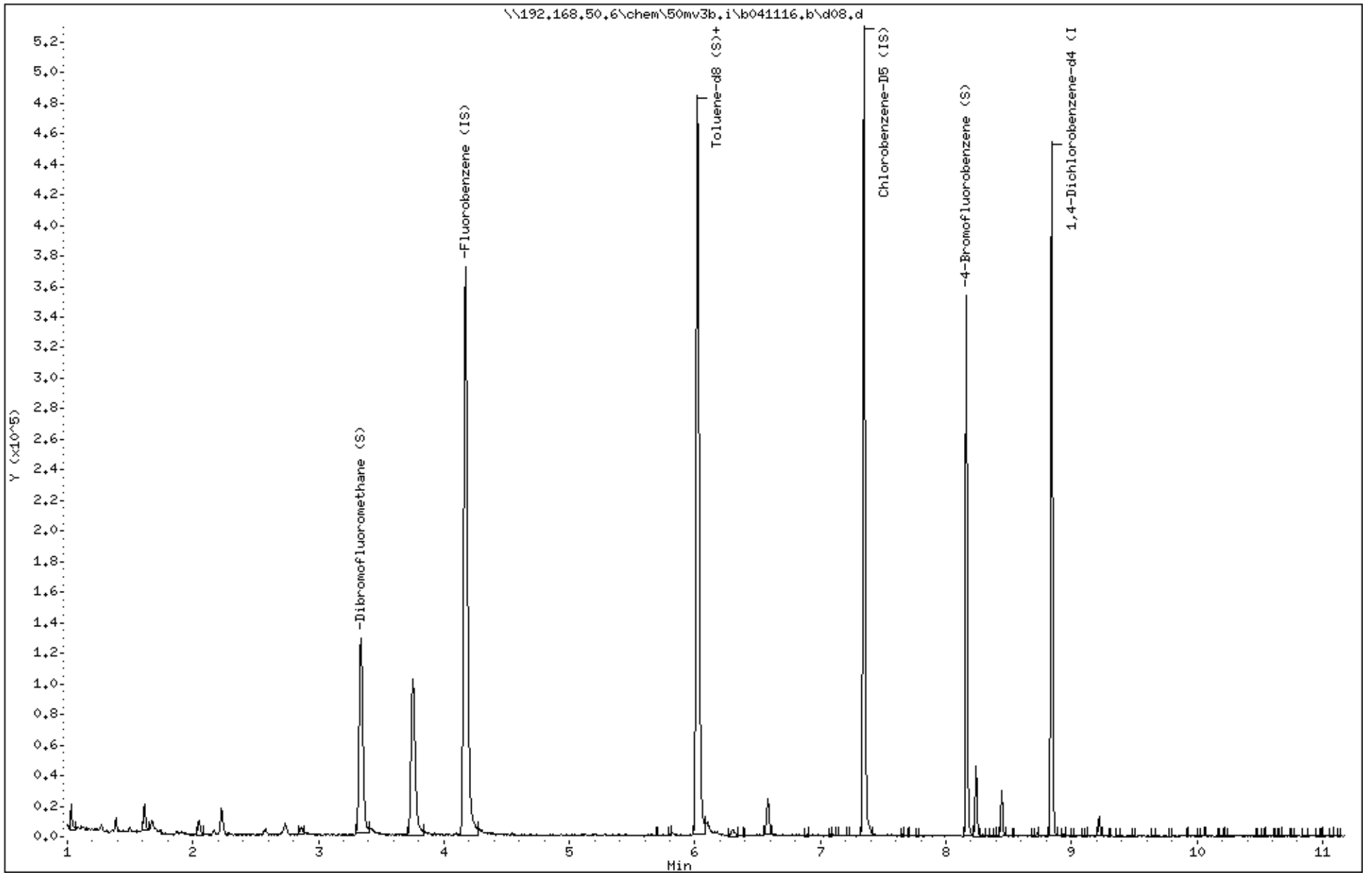
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
12 Acetone	43	1.613	1.611	(0.387)	16362	32.9192	32.9	
$ 35 Dibromofluoromethane (S)	113	3.339	3.342	(0.800)	85537	51.4137	51.4	
* 44 Fluorobenzene (IS)	96	4.172	4.175	(1.000)	363346	50.0000		
$ 55 Toluene-d8 (S)	98	6.020	6.023	(0.820)	295370	49.1044	49.1	
56 Toluene	91	6.095	6.092	(0.830)	3157	0.40297	0.403	
* 65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	186148	50.0000		
$ 74 4-Bromofluorobenzene (S)	95	8.162	8.165	(1.111)	68446	41.8543	41.8	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	67823	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d08.d
Date : 12-APR-2016 02:58
Client ID: EB-2(033016)-LM
Instrument: 50mv3b.i
Sample Info: 50141666022
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d08.d

Date : 12-APR-2016 02:58

Client ID: EB-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666022

Purge Volume: 5.0

Operator: jlz

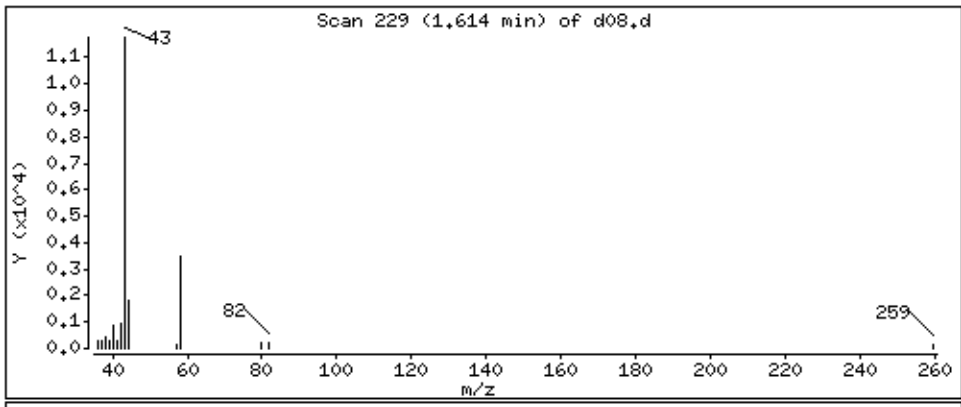
Column phase: DB-624

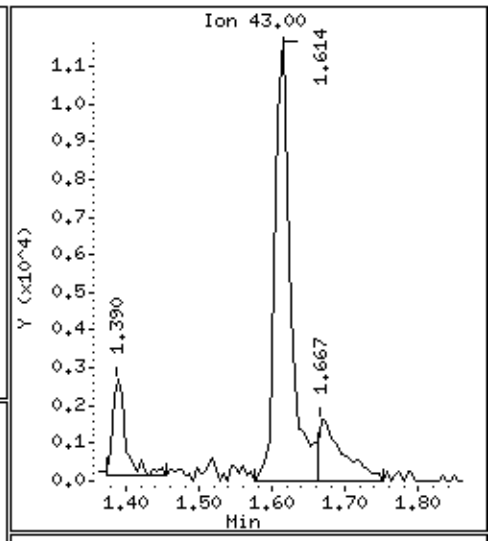
Column diameter: 0.18

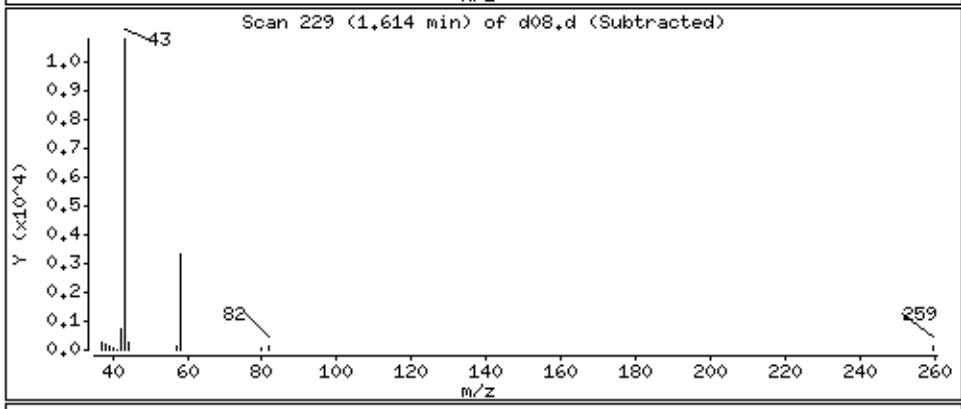
12 Acetone

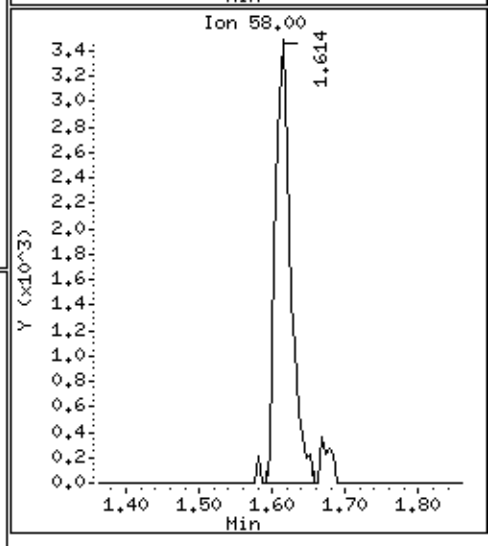
Concentration: 32.9 ppb

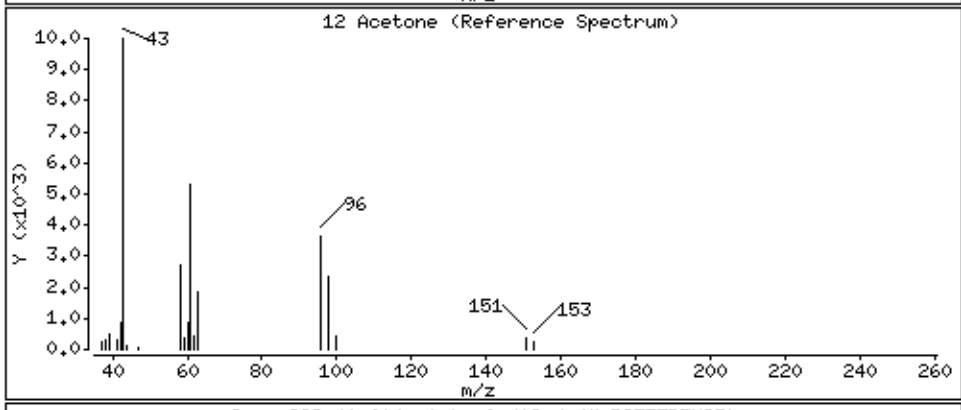
Review Code:

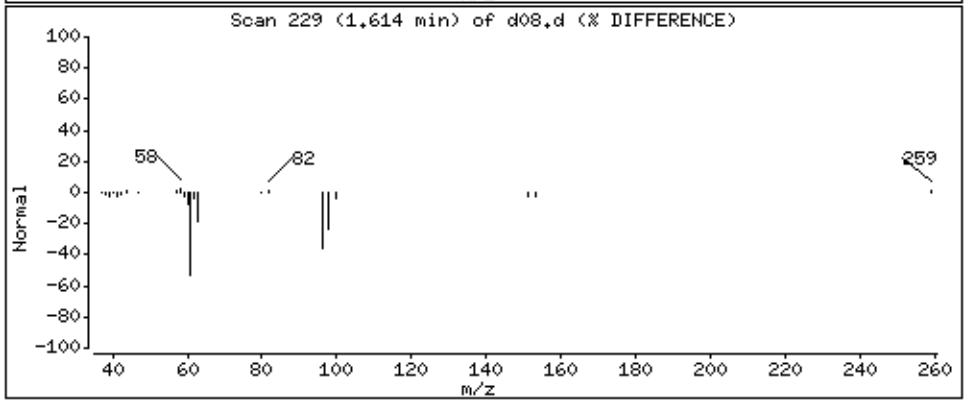












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d08.d

Date : 12-APR-2016 02:58

Client ID: EB-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666022

Purge Volume: 5.0

Operator: jlz

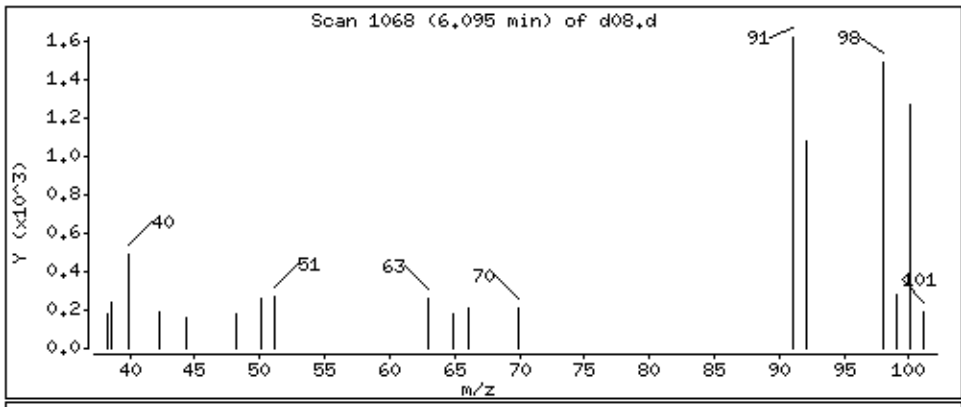
Column phase: DB-624

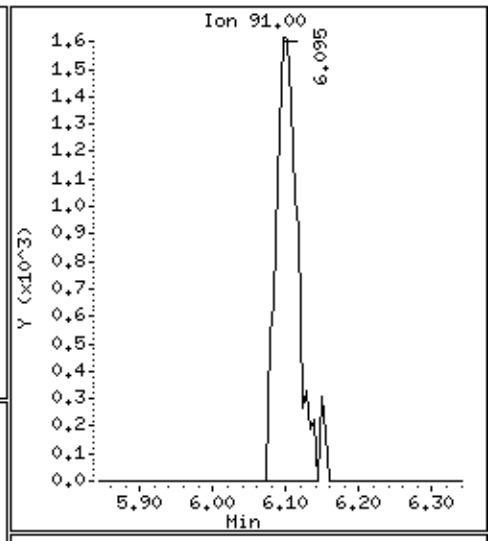
Column diameter: 0.18

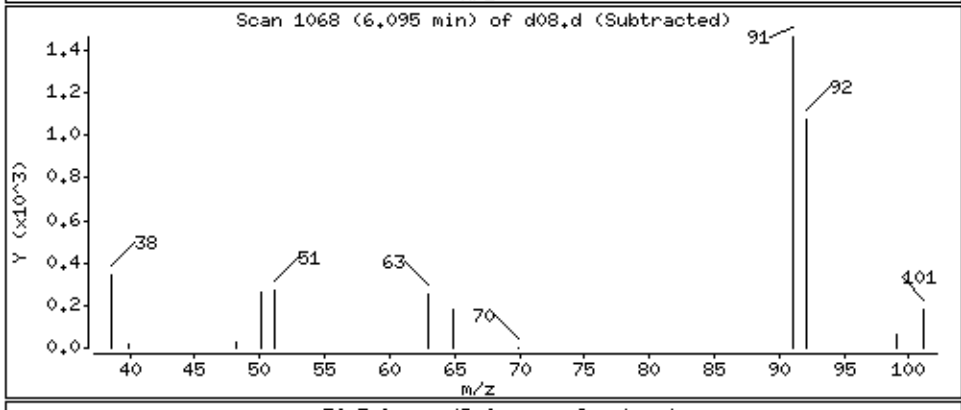
56 Toluene

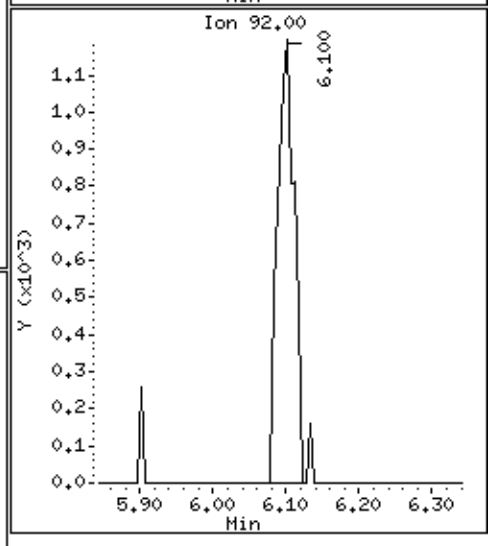
Concentration: 0.403 ppb

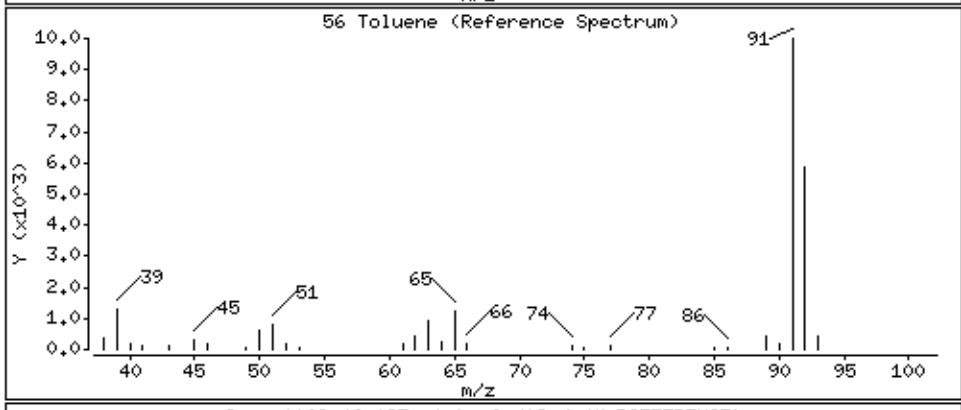
Review Code:

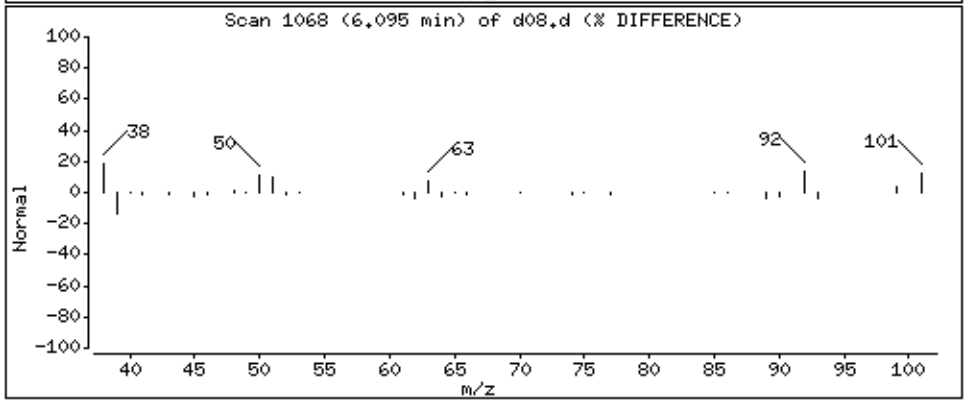












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d08.d
Injection Date: 12-APR-2016 02:58
Instrument: 50mv3b.i
Lab Sample ID: 50141666022
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0617-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 07:14 Lab Sample ID: 50141666023

Date Analyzed: 04/12/2016 07:14 Lab File ID: B041116.B\D16.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0617-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 07:14 Lab Sample ID: 50141666023

Date Analyzed: 04/12/2016 07:14 Lab File ID: B041116.B\D16.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

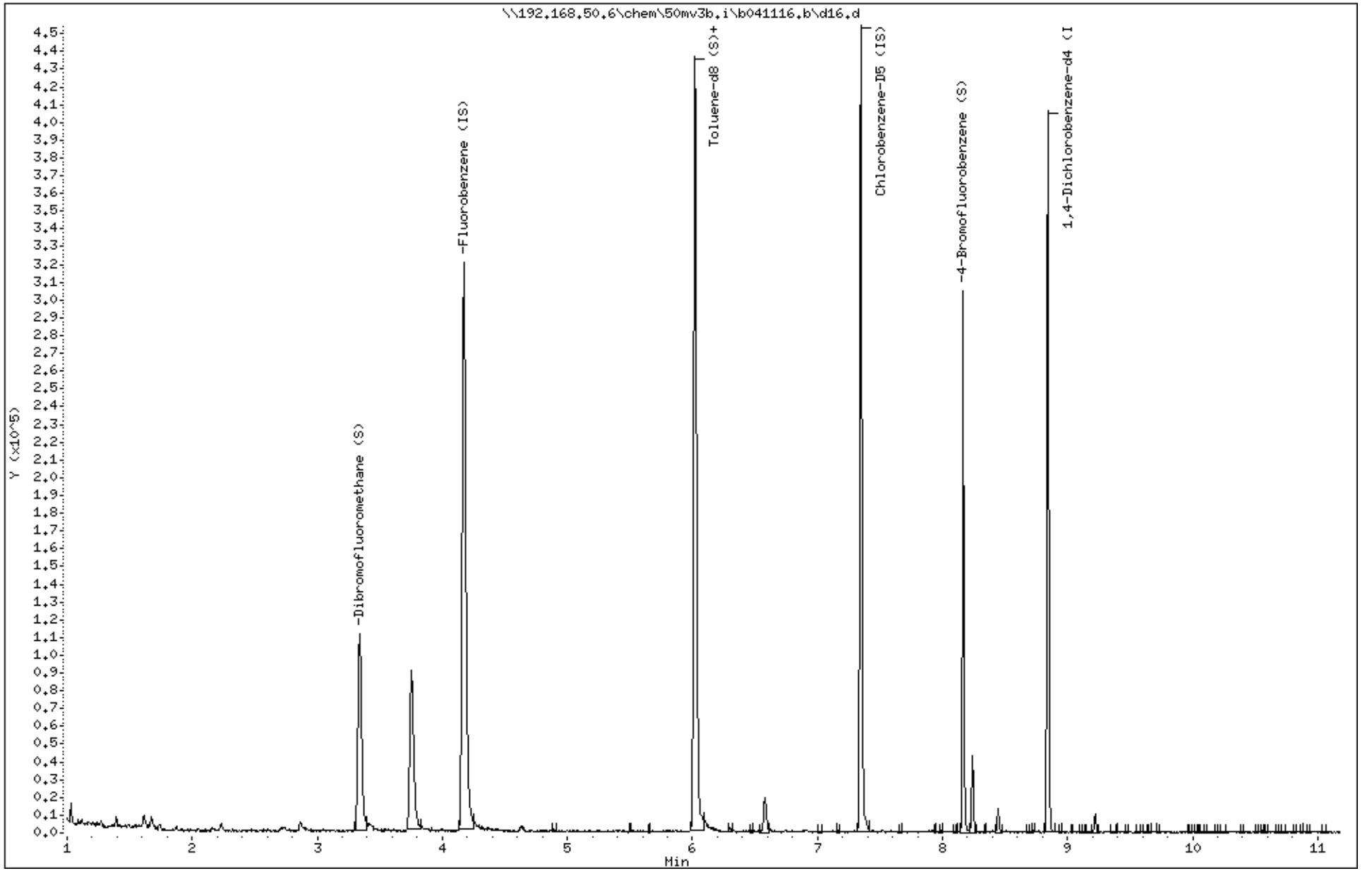
Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d16.d
Lab Smp Id: 50141666023 Client Smp ID: MW-0617-S1(033016)P
Inj Date : 12-APR-2016 07:14
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666023
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 80
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.614	1.611	(0.387)	6046	14.4325	14.4	
$	35 Dibromofluoromethane (S)	113	3.345	3.342	(0.802)	74229	52.9368	52.9	
*	44 Fluorobenzene (IS)	96	4.172	4.175	(1.000)	306239	50.0000		
$	55 Toluene-d8 (S)	98	6.020	6.023	(0.820)	258991	51.3021	51.3	
	56 Toluene	91	6.095	6.092	(0.830)	1907	0.29003	0.290	
*	65 Chlorobenzene-D5 (IS)	117	7.345	7.348	(1.000)	156229	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.162	8.165	(1.111)	57280	41.7341	41.7	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	57771	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d16.d
Date : 12-APR-2016 07:14
Client ID: MW-0617-S1(033016)P
Instrument: 50mv3b.i
Sample Info: 50141666023
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d16.d

Date : 12-APR-2016 07:14

Client ID: MW-0617-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666023

Purge Volume: 5.0

Operator: jlz

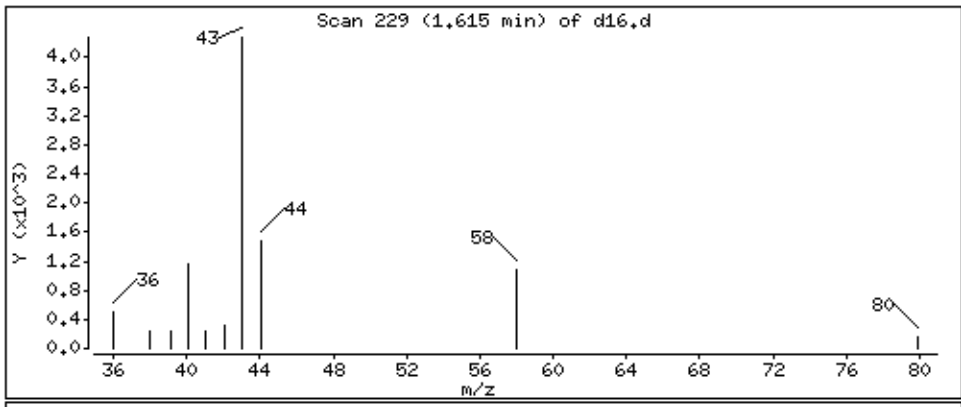
Column phase: DB-624

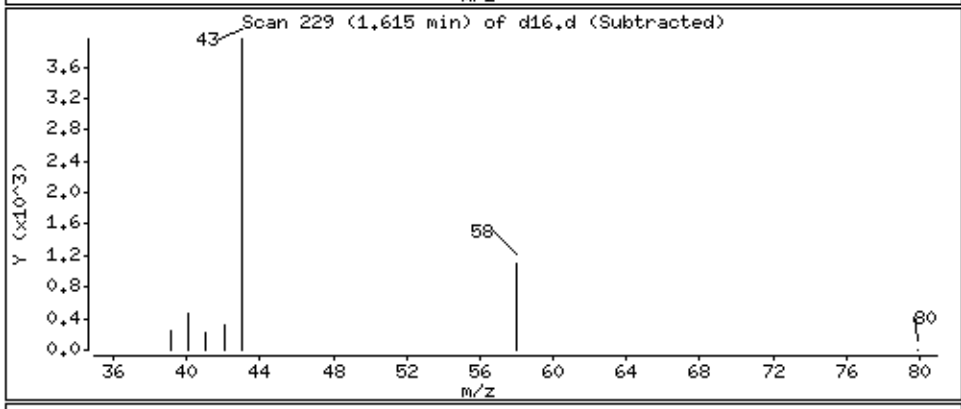
Column diameter: 0.18

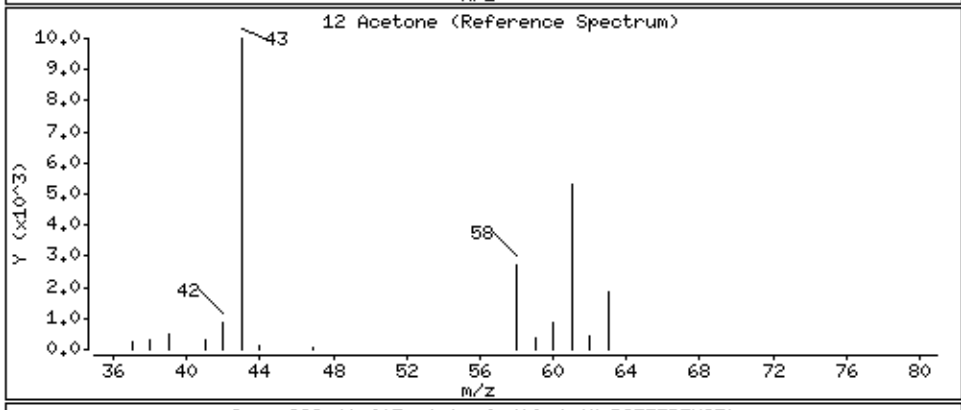
12 Acetone

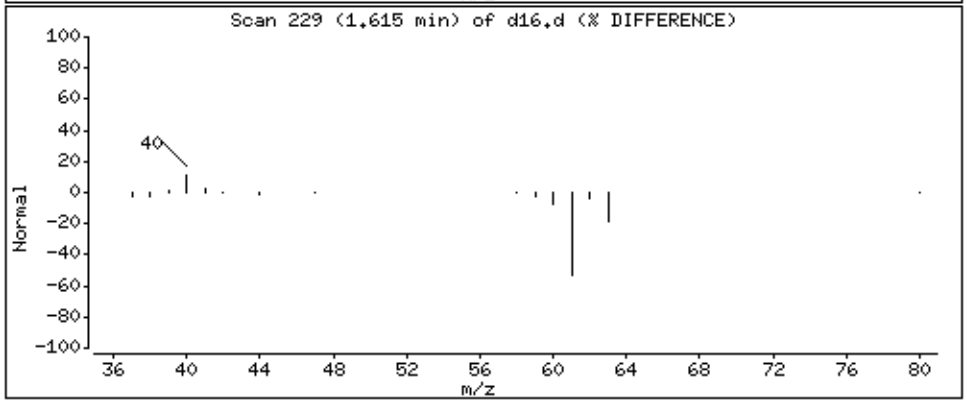
Concentration: 14.4 ppb

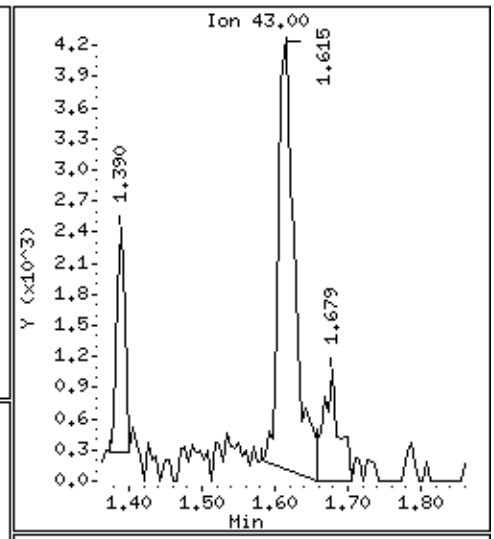
Review Code:

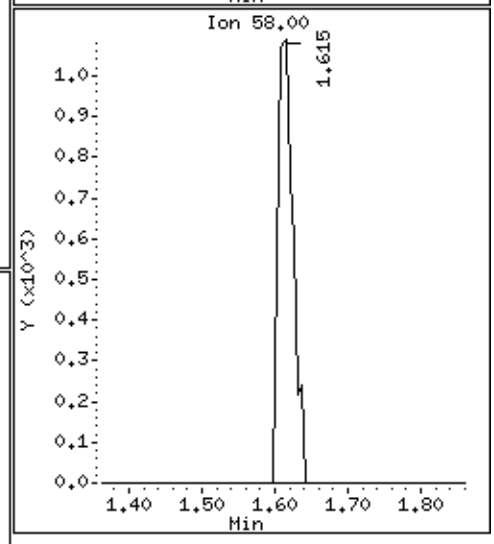












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d16.d

Date : 12-APR-2016 07:14

Client ID: MW-0617-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666023

Purge Volume: 5.0

Operator: jlz

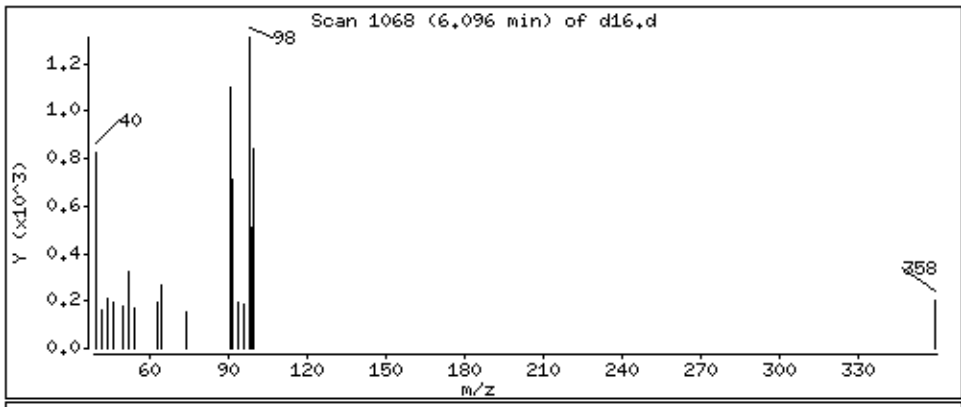
Column phase: DB-624

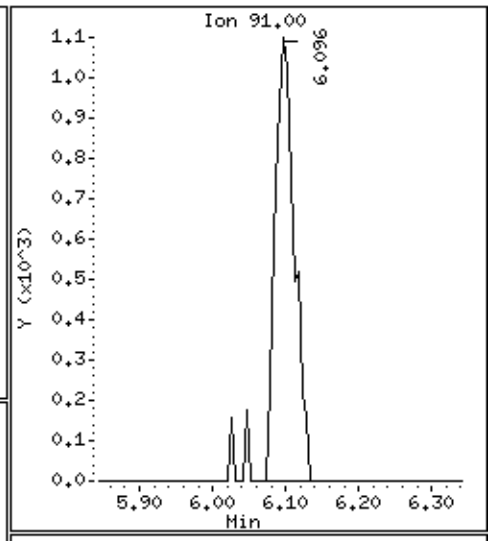
Column diameter: 0.18

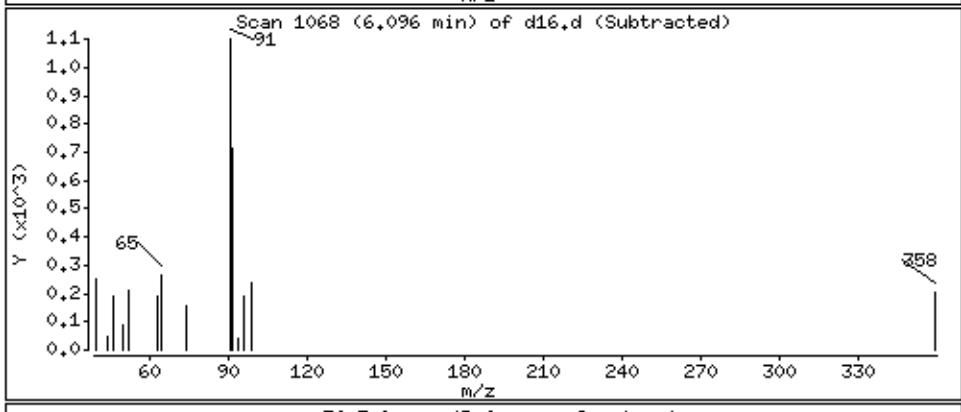
56 Toluene

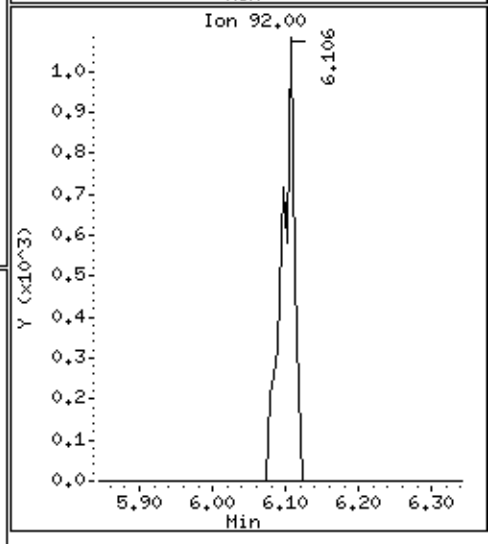
Concentration: 0.290 ppb

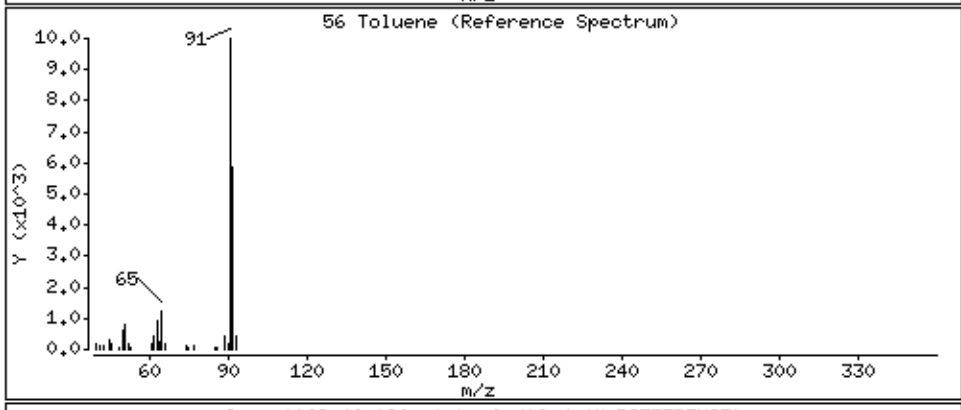
Review Code:

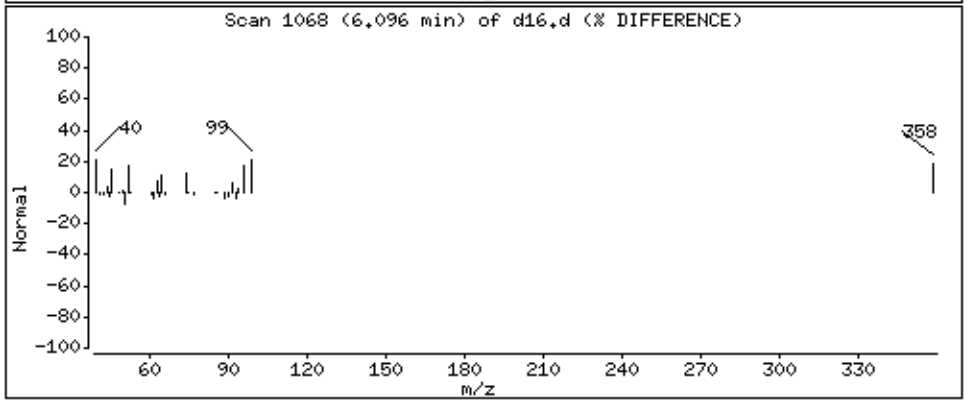












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d16.d
Injection Date: 12-APR-2016 07:14
Instrument: 50mv3b.i
Lab Sample ID: 50141666023
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0618-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:30 Lab Sample ID: 50141666024

Date Analyzed: 04/12/2016 03:30 Lab File ID: B041116.B\D09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0618-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 03:30 Lab Sample ID: 50141666024

Date Analyzed: 04/12/2016 03:30 Lab File ID: B041116.B\D09.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

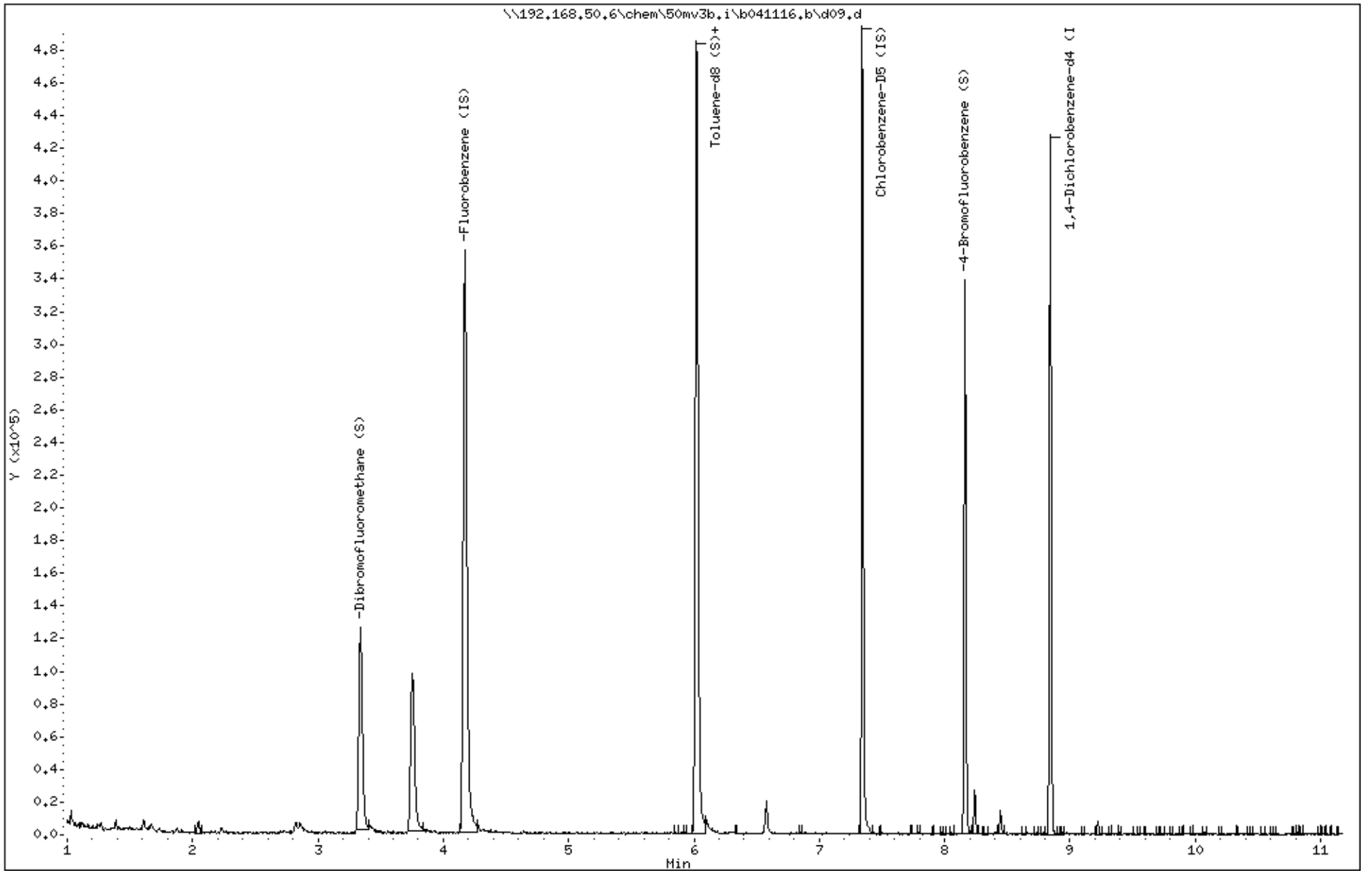
Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d09.d
Lab Smp Id: 50141666024 Client Smp ID: MW-0618-S1(033016)P
Inj Date : 12-APR-2016 03:30
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666024
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	22 1,2-Dichloroethene (trans)	96	2.044	2.044	(0.490)	1652	0.86143	0.861	
	28 1,2-Dichloroethene (cis)	96	2.818	2.824	(0.676)	2603	1.36906	1.37	
$	35 Dibromofluoromethane (S)	113	3.336	3.342	(0.800)	82813	51.3276	51.3	
*	44 Fluorobenzene (IS)	96	4.170	4.175	(1.000)	352365	50.0000		
$	55 Toluene-d8 (S)	98	6.018	6.023	(0.820)	290661	50.5545	50.6	
	56 Toluene	91	6.098	6.092	(0.831)	2449	0.32704	0.327	
*	65 Chlorobenzene-D5 (IS)	117	7.342	7.348	(1.000)	177926	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.165	8.165	(1.112)	65805	42.0988	42.1	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.843	(1.000)	66133	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d09.d
Date : 12-APR-2016 03:30
Client ID: MW-0618-S1(033016)P
Instrument: 50mv3b.i
Sample Info: 50141666024
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d09.d

Date : 12-APR-2016 03:30

Client ID: MW-0618-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666024

Purge Volume: 5.0

Operator: jlz

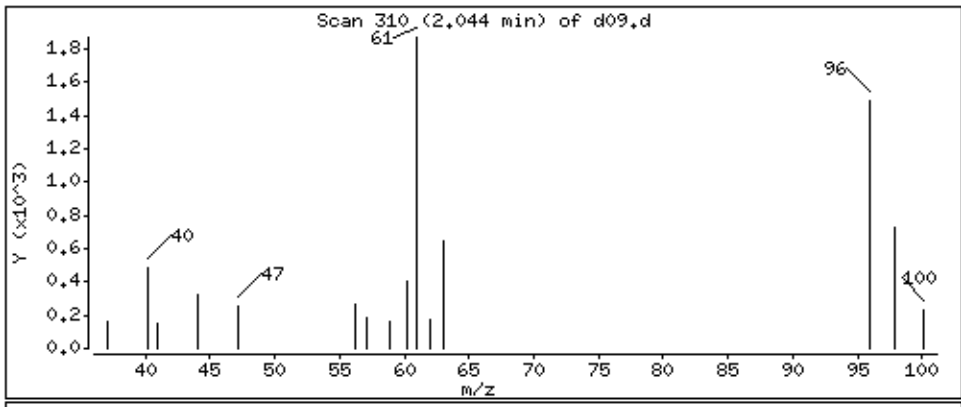
Column phase: DB-624

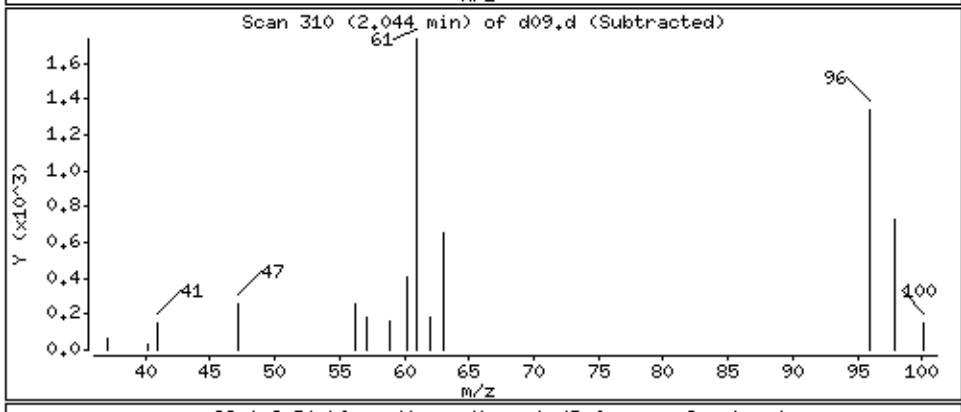
Column diameter: 0.18

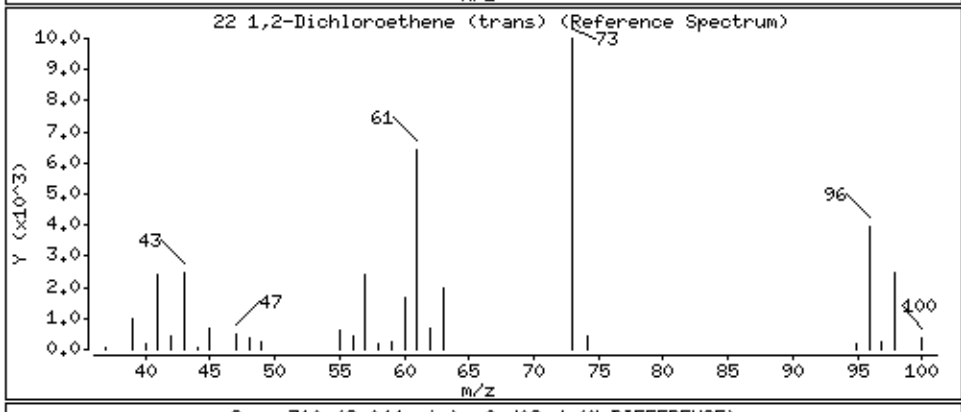
22 1,2-Dichloroethene (trans)

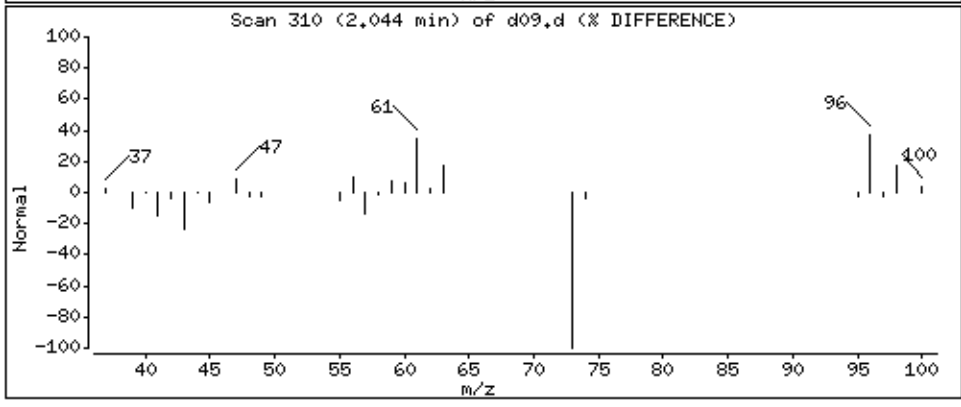
Concentration: 0.861 ppb

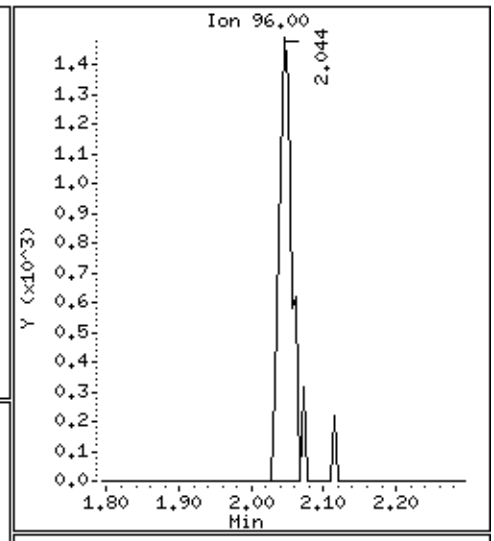
Review Code:

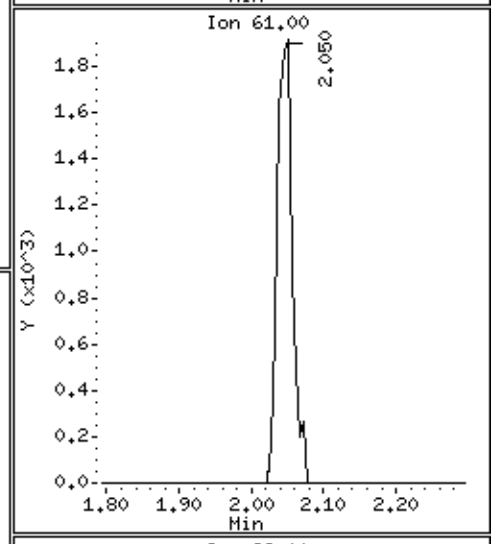


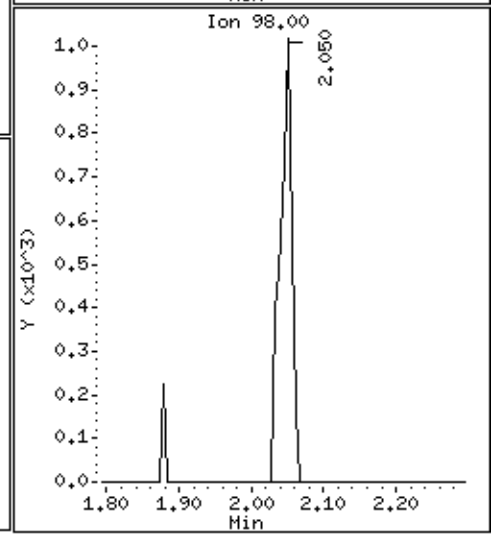












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d09.d

Date : 12-APR-2016 03:30

Client ID: MW-0618-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666024

Purge Volume: 5.0

Operator: jlz

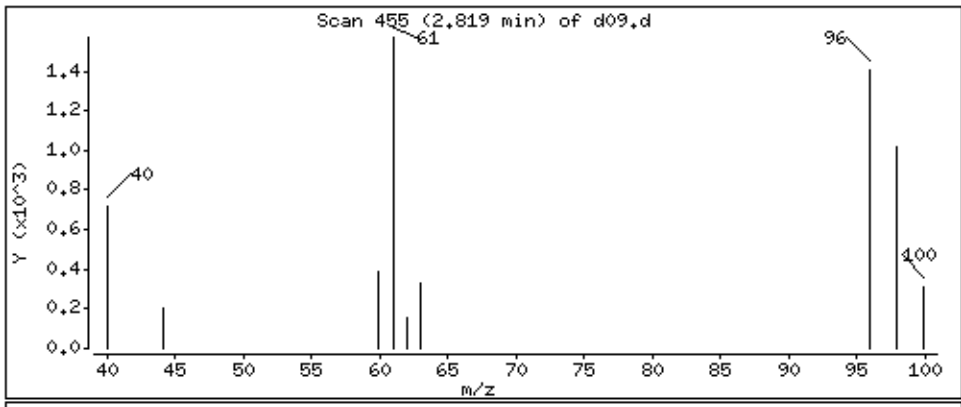
Column phase: DB-624

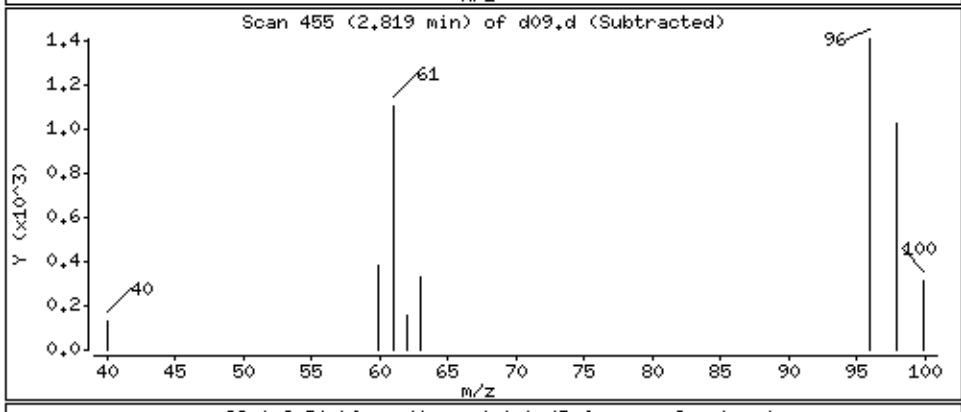
Column diameter: 0.18

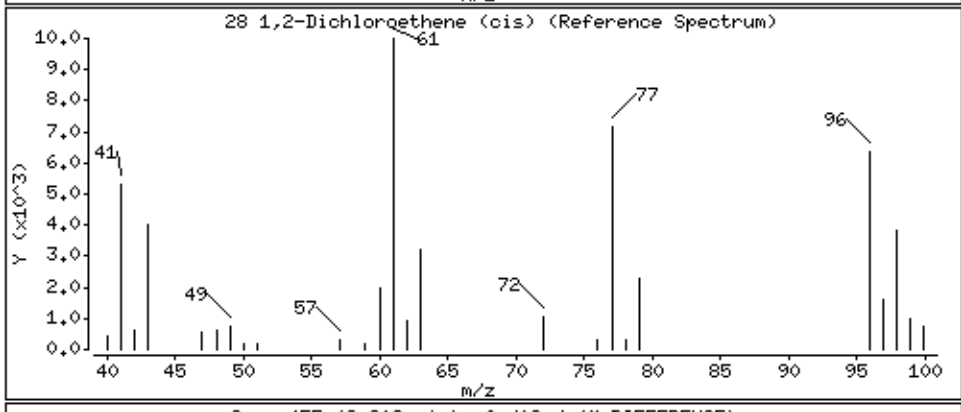
28 1,2-Dichloroethene (cis)

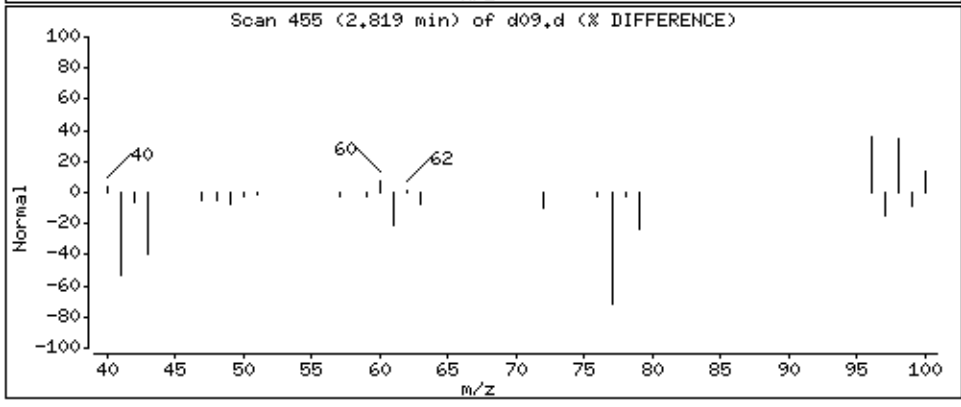
Concentration: 1.37 ppb

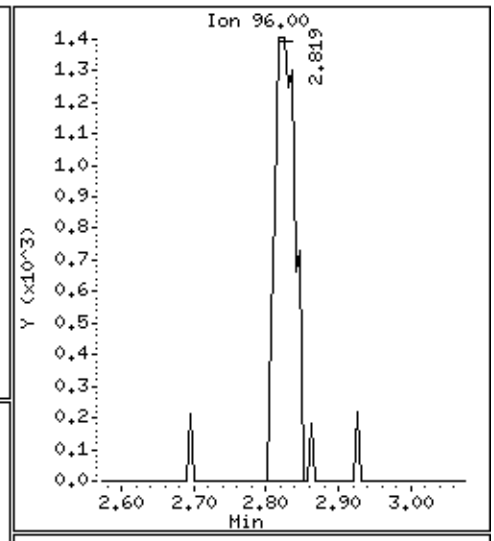
Review Code:

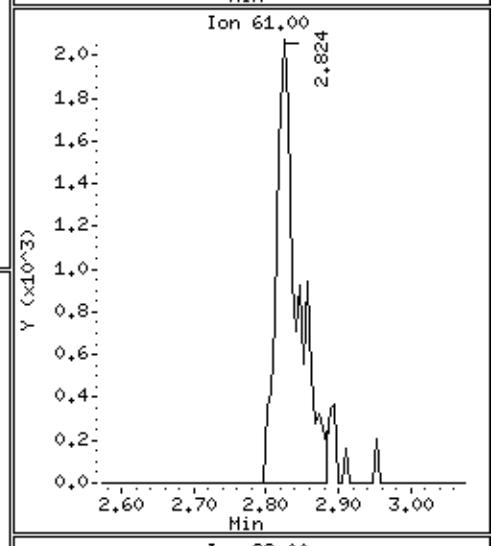


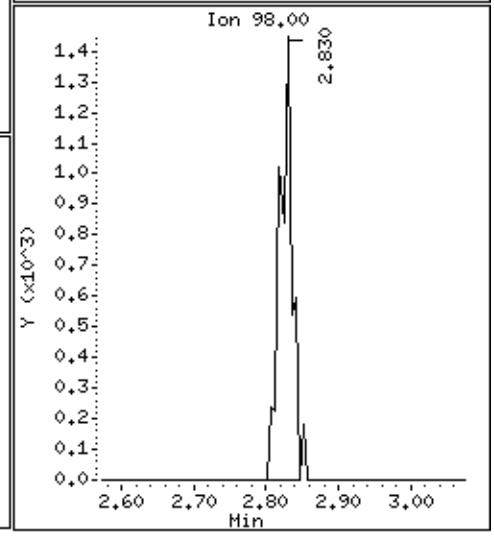












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d09.d

Date : 12-APR-2016 03:30

Client ID: MW-0618-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666024

Purge Volume: 5.0

Operator: jlz

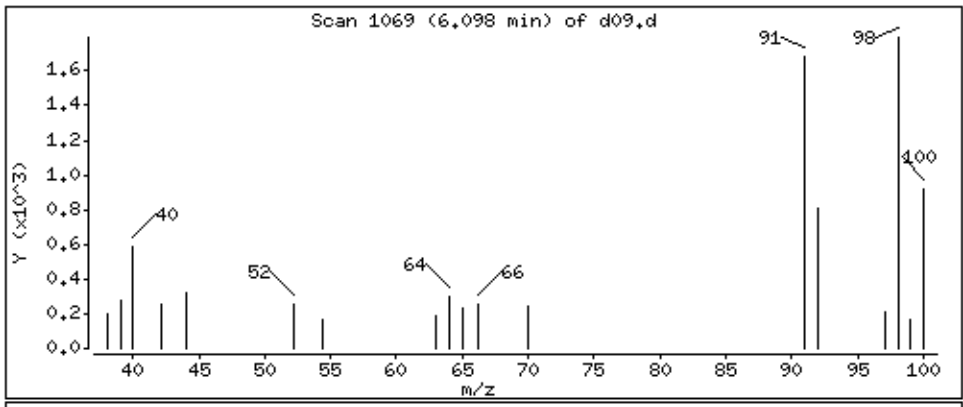
Column phase: DB-624

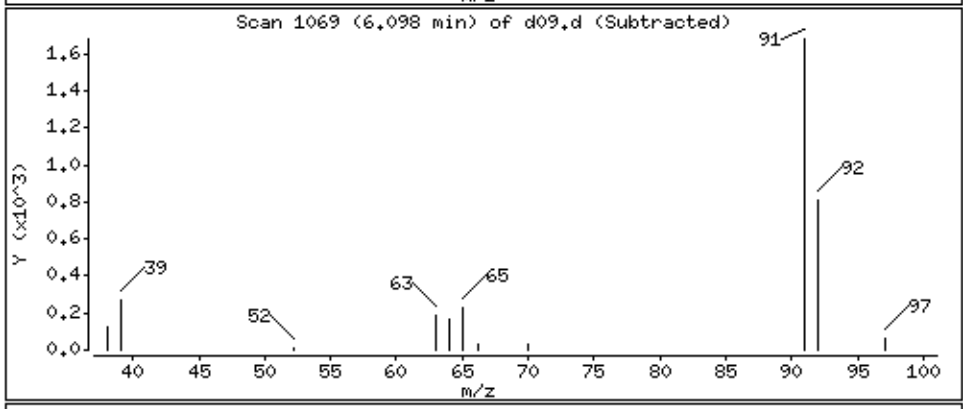
Column diameter: 0.18

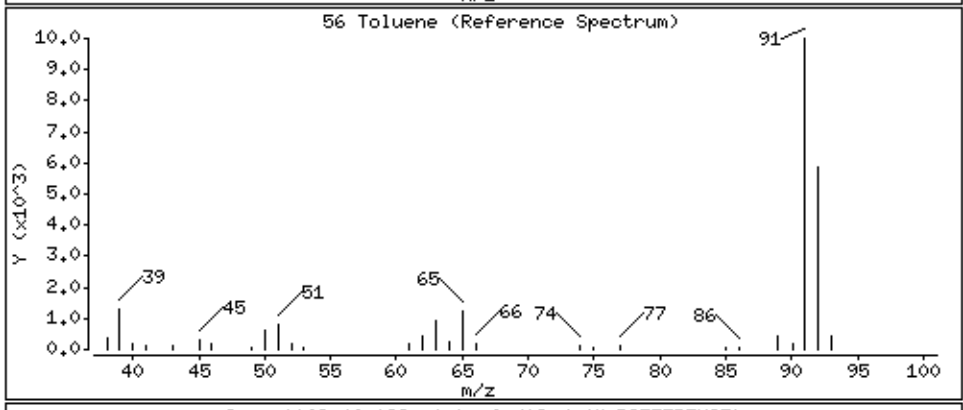
56 Toluene

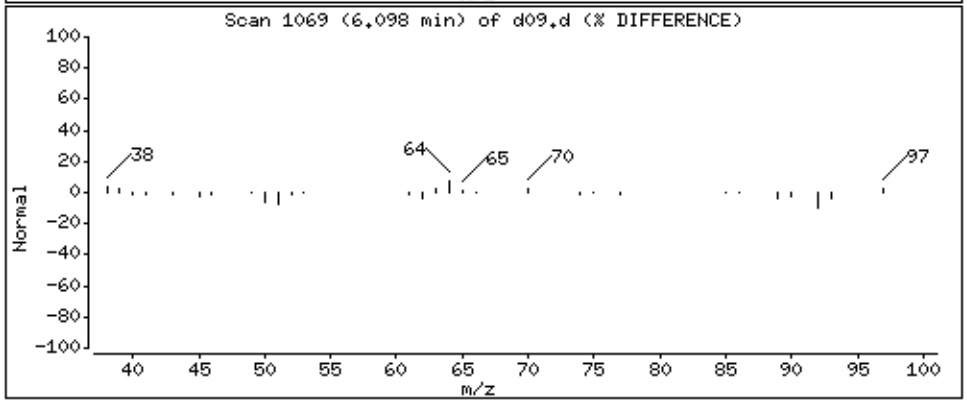
Concentration: 0.327 ppb

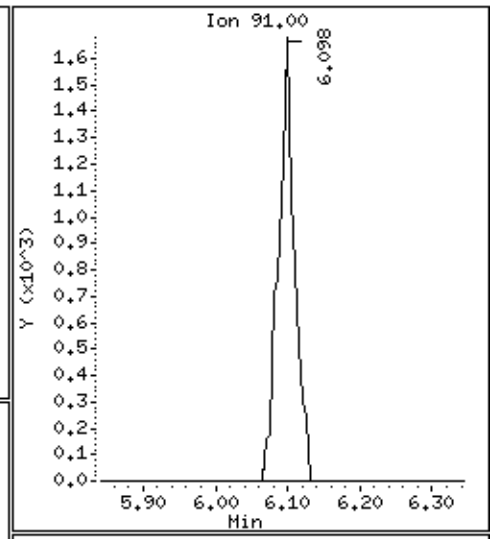
Review Code:

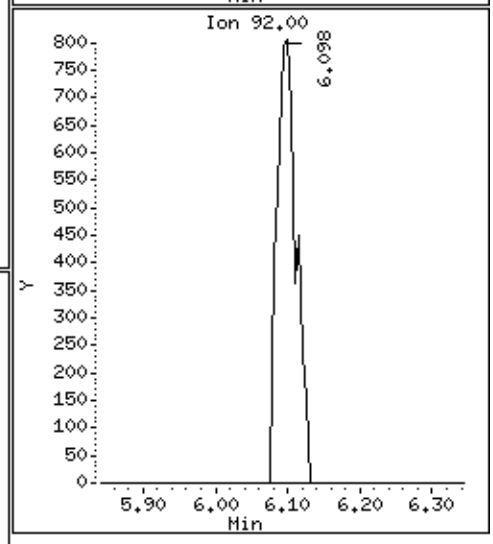












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d09.d
Injection Date: 12-APR-2016 03:30
Instrument: 50mv3b.i
Lab Sample ID: 50141666024
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0619-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:02 Lab Sample ID: 50141666025

Date Analyzed: 04/12/2016 04:02 Lab File ID: B041116.B\D10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	23.7	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0619-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:02 Lab Sample ID: 50141666025

Date Analyzed: 04/12/2016 04:02 Lab File ID: B041116.B\D10.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d
Lab Smp Id: 50141666025 Client Smp ID: MW-0619-S1(033016)P
Inj Date : 12-APR-2016 04:02
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666025
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

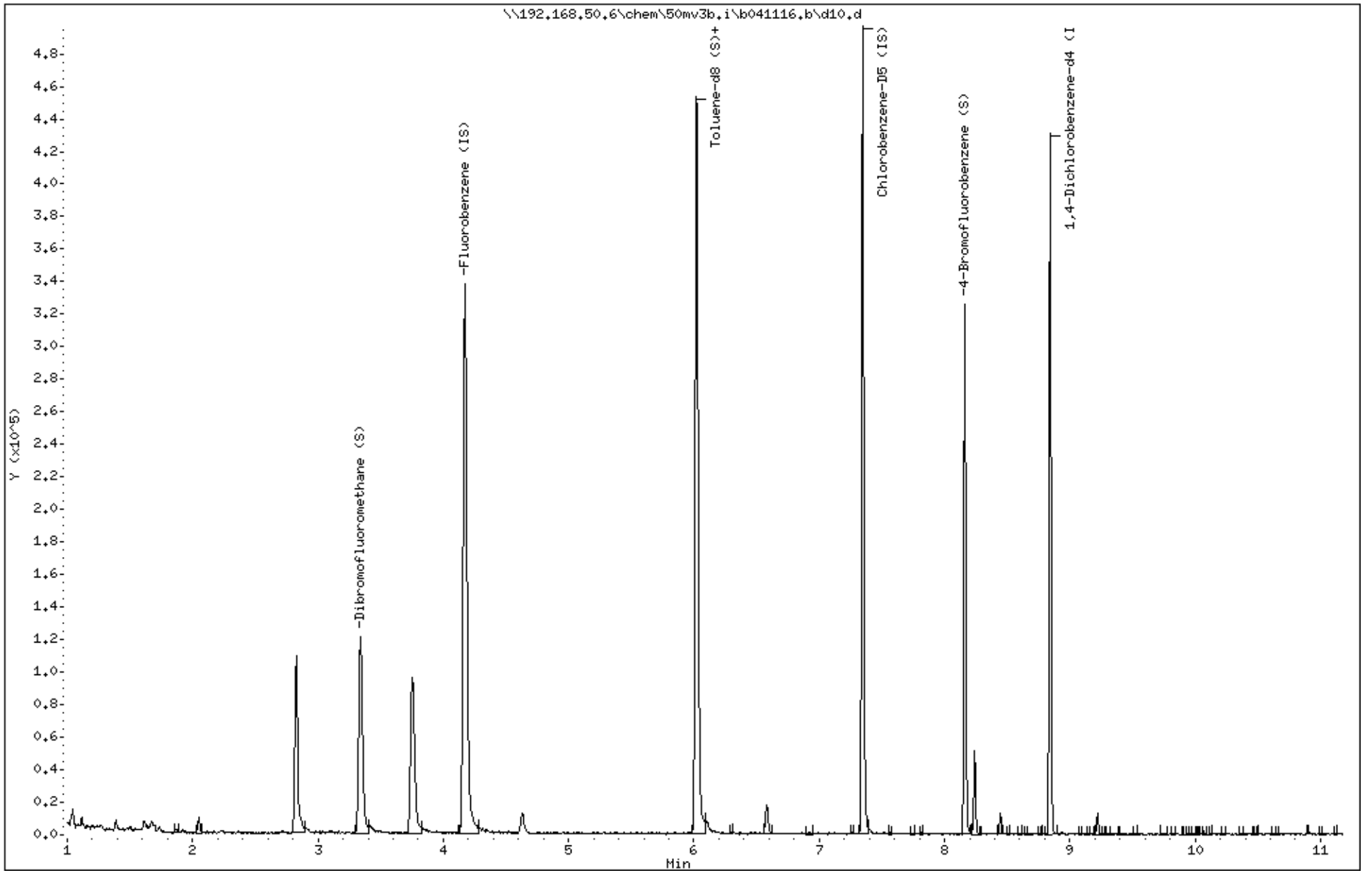
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.041	1.045	(0.250)	4649	1.44863	1.45	
	12 Acetone	43	1.613	1.611	(0.387)	5591	12.4240	12.4	
	22 1,2-Dichloroethene (trans)	96	2.051	2.044	(0.492)	1991	1.11202	1.11	
	28 1,2-Dichloroethene (cis)	96	2.825	2.824	(0.677)	42069	23.6997	23.7	
$	35 Dibromofluoromethane (S)	113	3.338	3.342	(0.800)	80949	53.7396	53.7	
*	44 Fluorobenzene (IS)	96	4.171	4.175	(1.000)	328974	50.0000		
	45 Trichloroethene	95	4.631	4.624	(1.110)	4468	2.71831	2.72	
$	55 Toluene-d8 (S)	98	6.019	6.023	(0.820)	279521	49.1889	49.2	
	56 Toluene	91	6.099	6.092	(0.831)	2448	0.33076	0.331	
*	65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	175857	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.161	8.165	(1.111)	63552	41.1358	41.1	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.843	(1.000)	63157	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d
Date : 12-APR-2016 04:02
Client ID: MW-0619-S1(033016)P
Sample Info: 50141666025
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

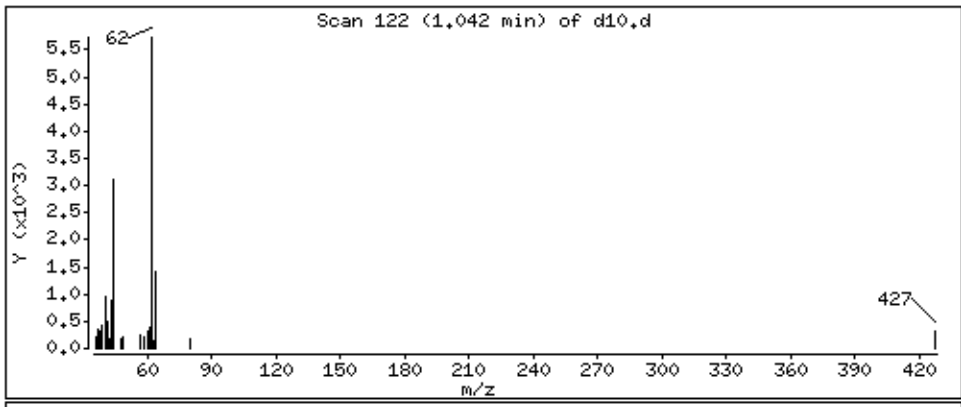
Column phase: DB-624

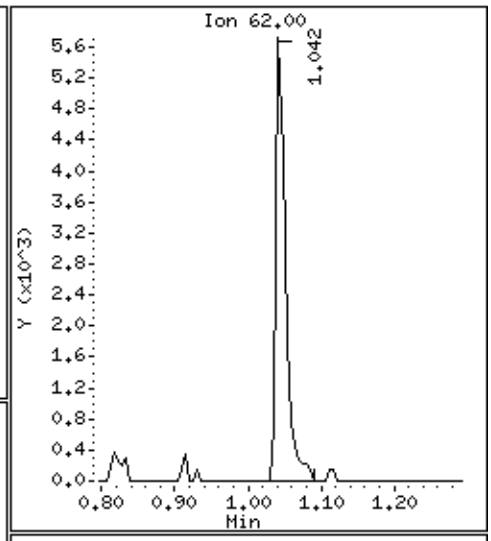
Column diameter: 0.18

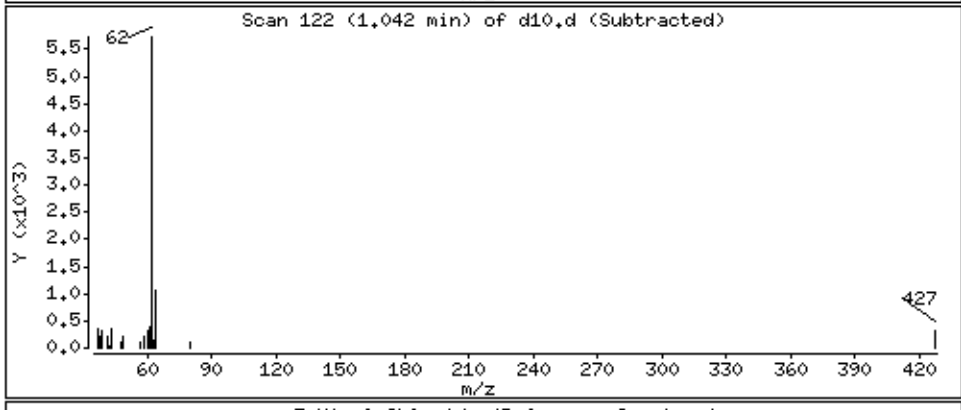
3 Vinyl Chloride

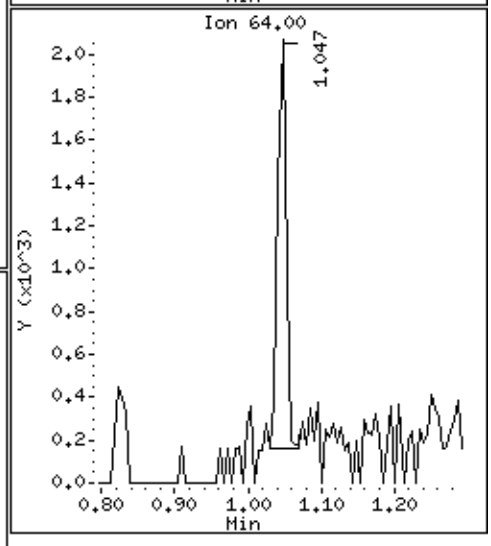
Concentration: 1.45 ppb

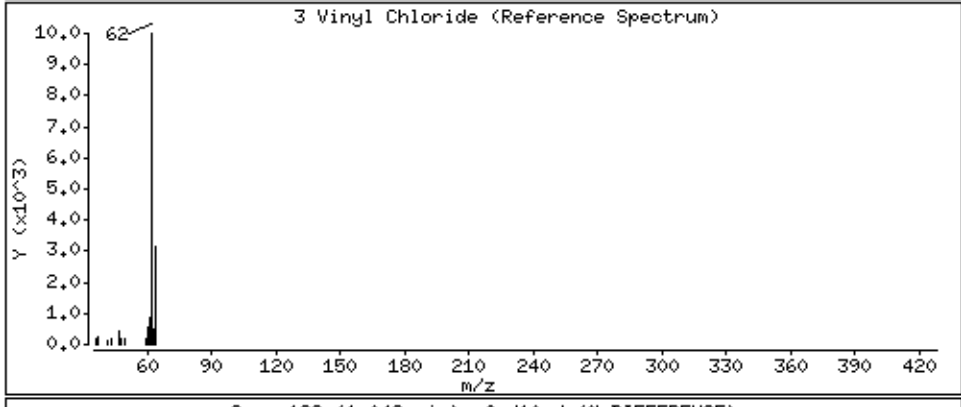
Review Code:

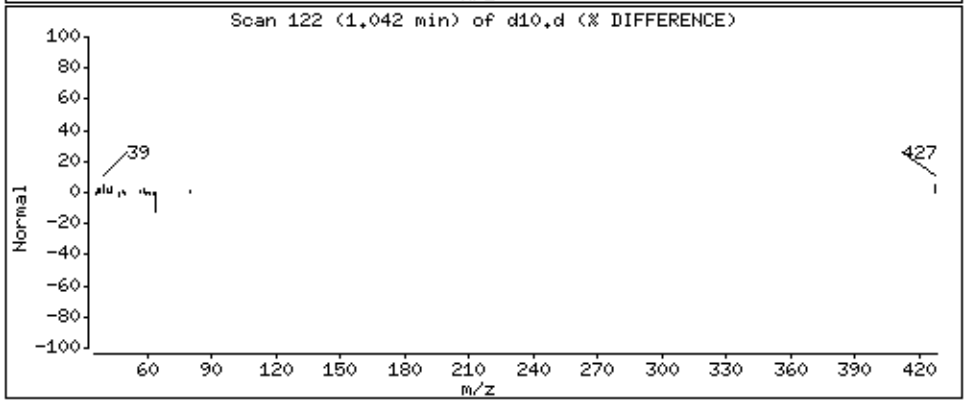












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

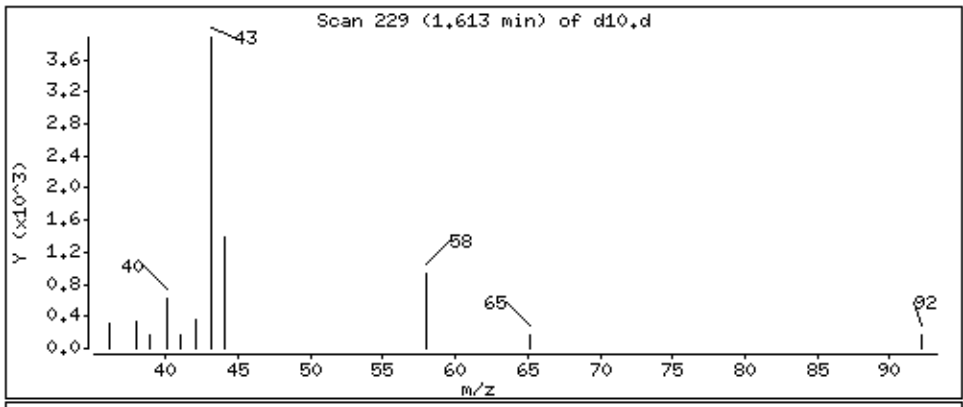
Column phase: DB-624

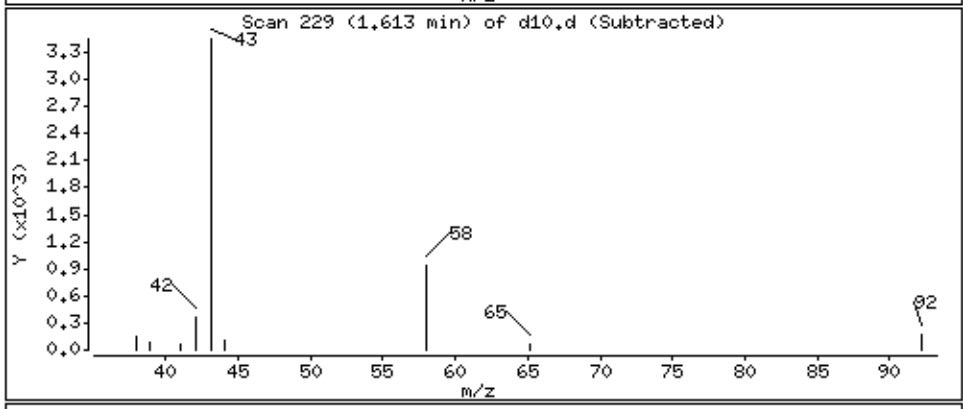
Column diameter: 0.18

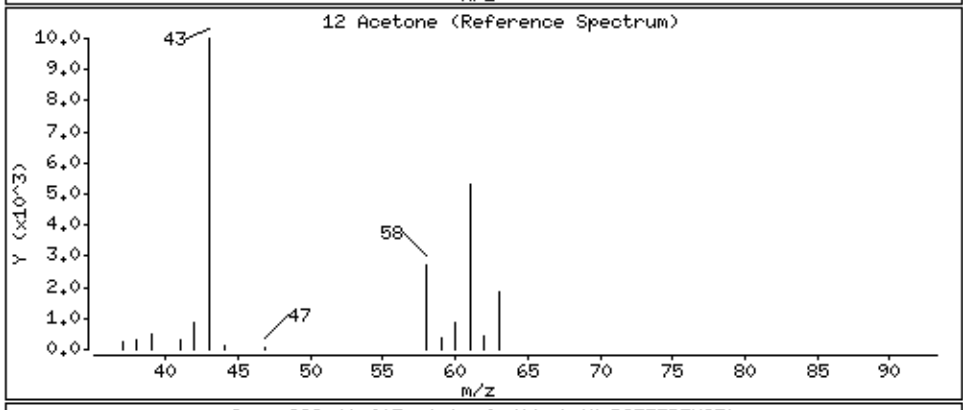
12 Acetone

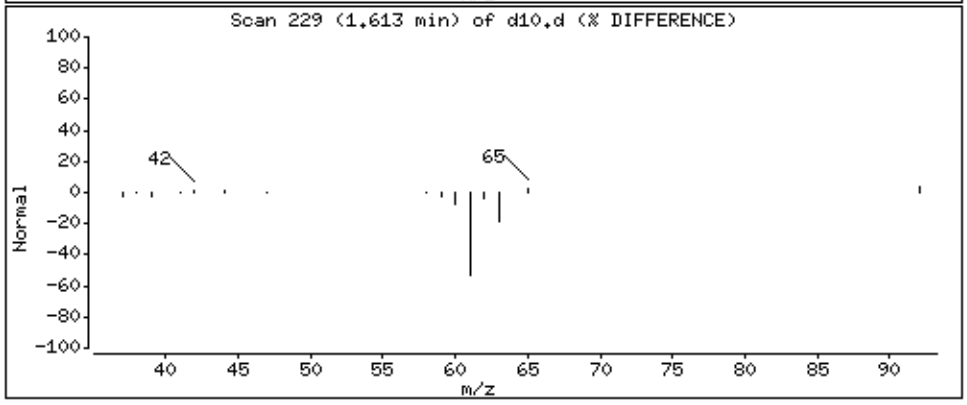
Concentration: 12.4 ppb

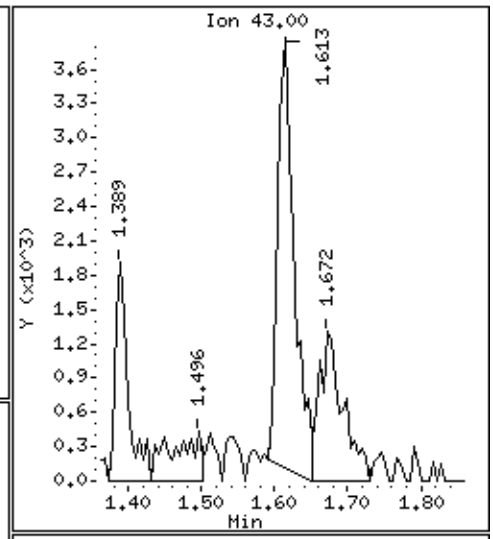
Review Code:

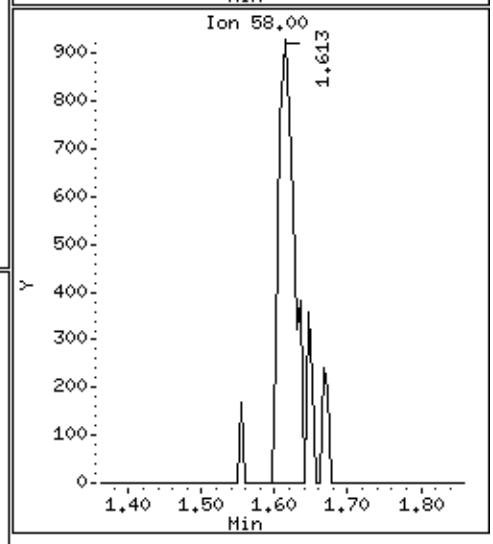












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

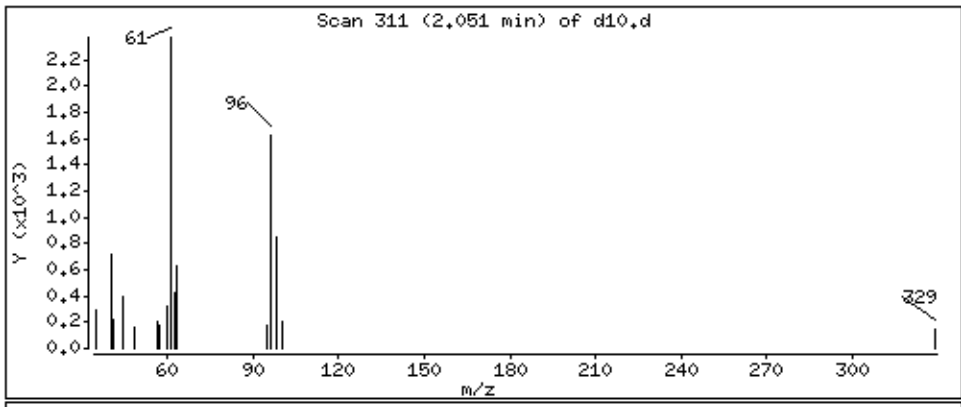
Column phase: DB-624

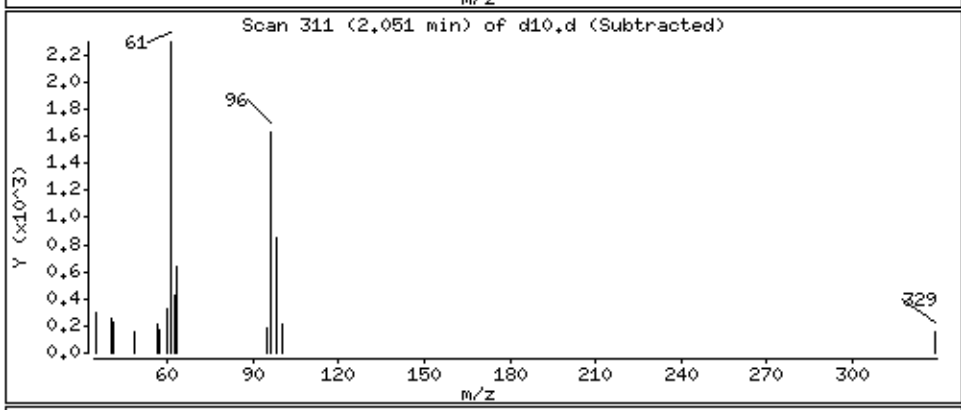
Column diameter: 0.18

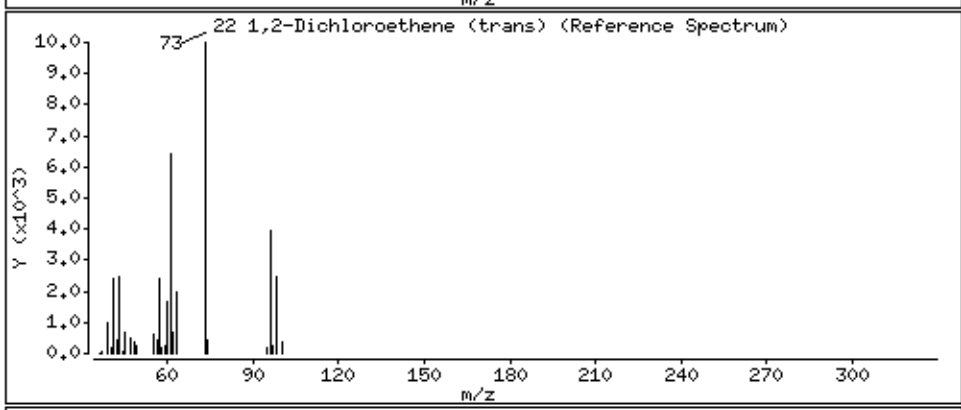
22 1,2-Dichloroethene (trans)

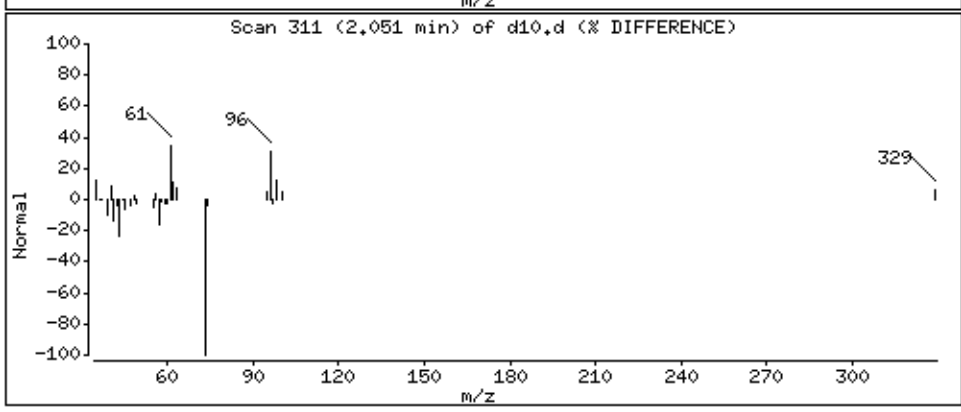
Concentration: 1.11 ppb

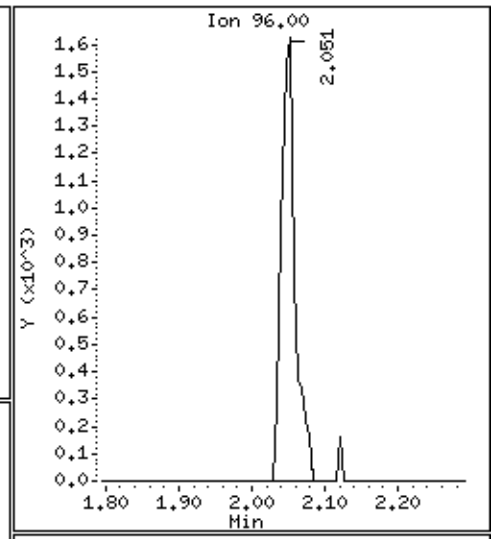
Review Code:

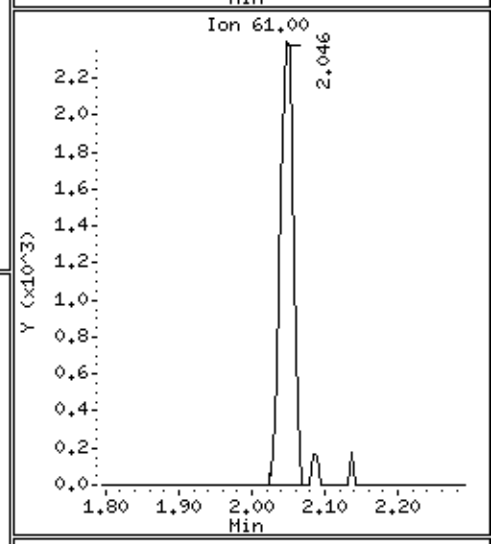


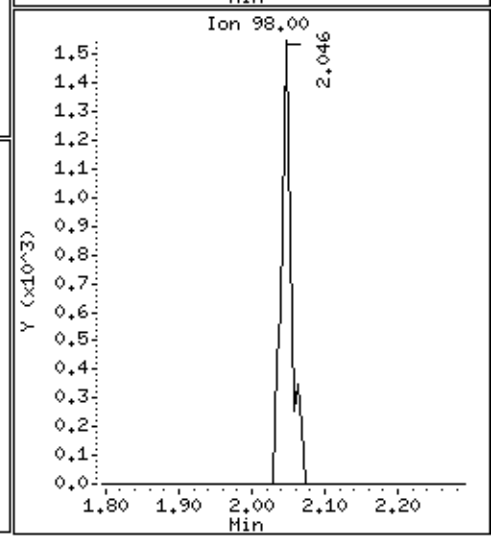












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

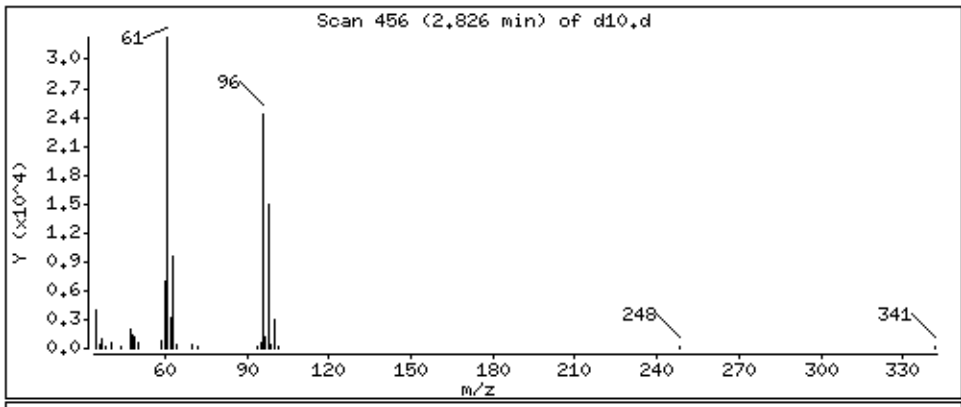
Column phase: DB-624

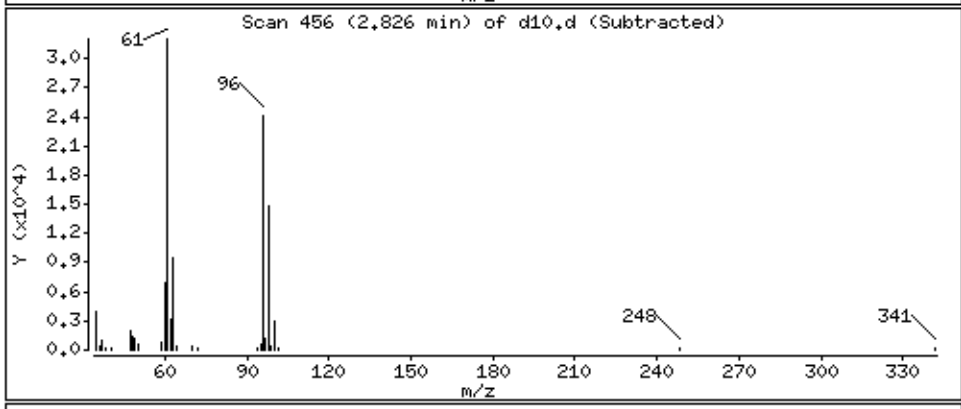
Column diameter: 0.18

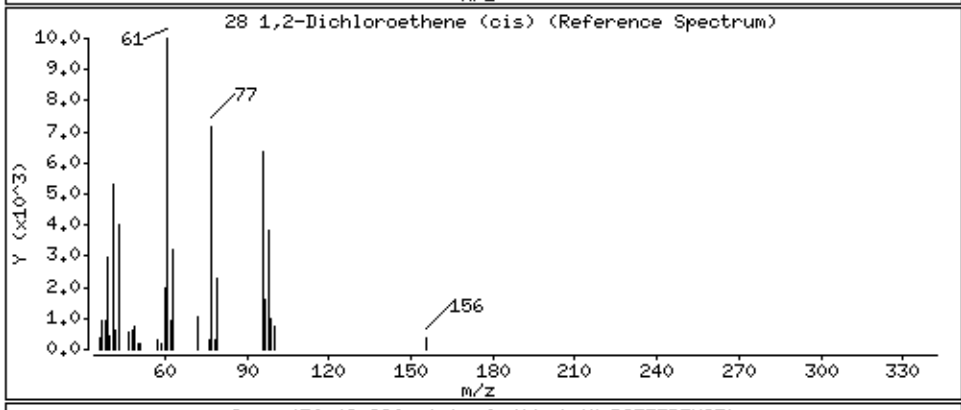
28 1,2-Dichloroethene (cis)

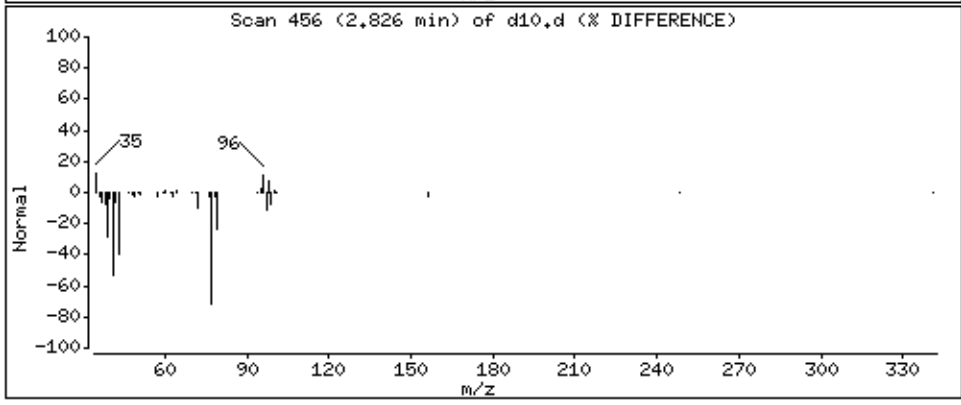
Concentration: 23.7 ppb

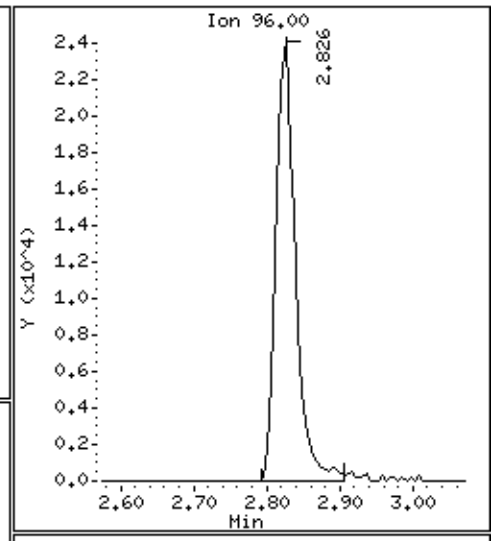
Review Code:

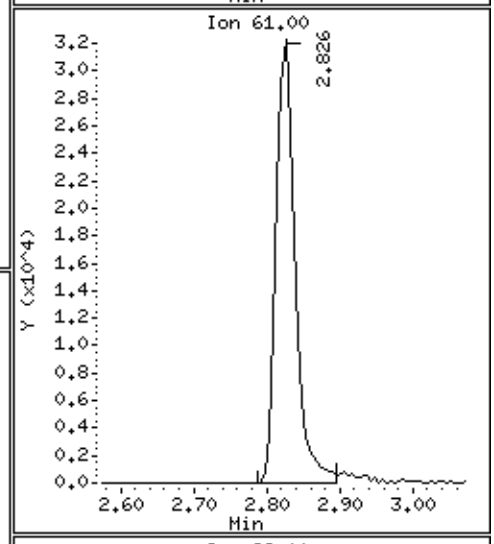


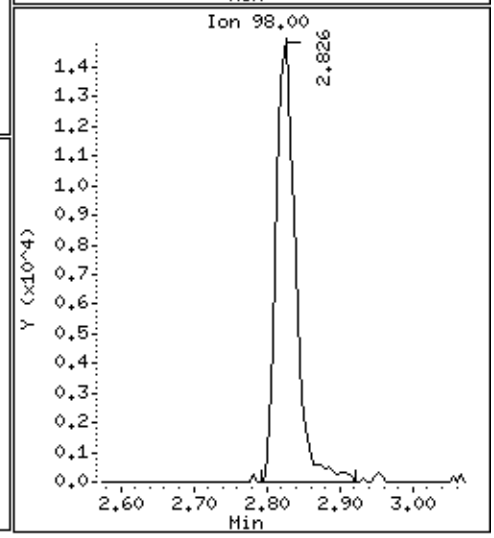












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

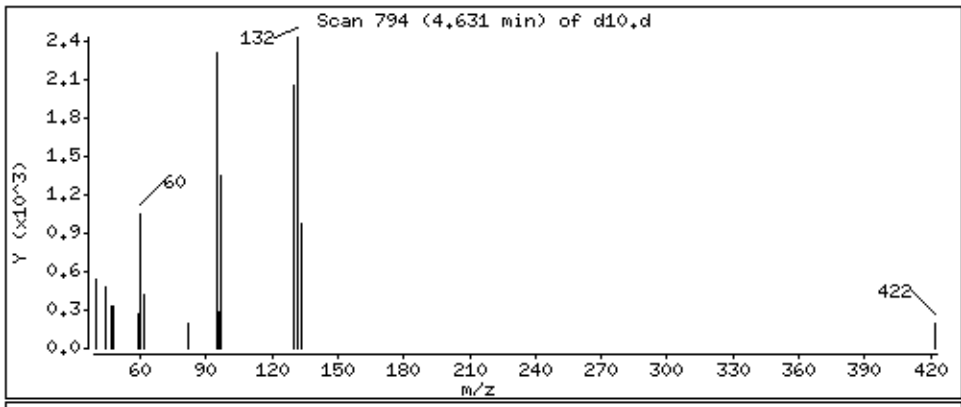
Column phase: DB-624

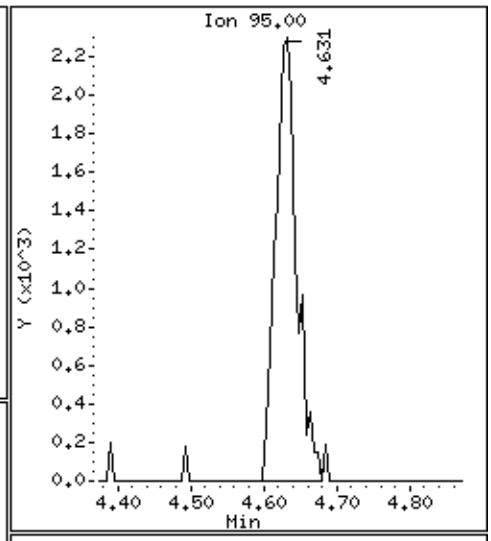
Column diameter: 0.18

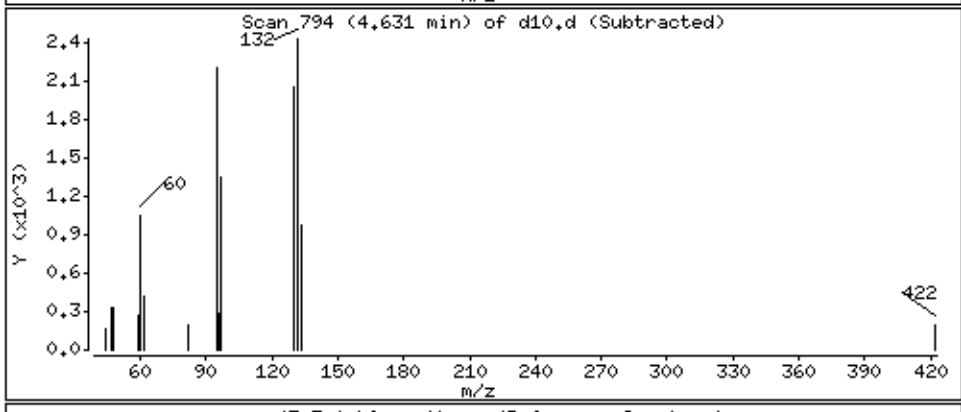
45 Trichloroethene

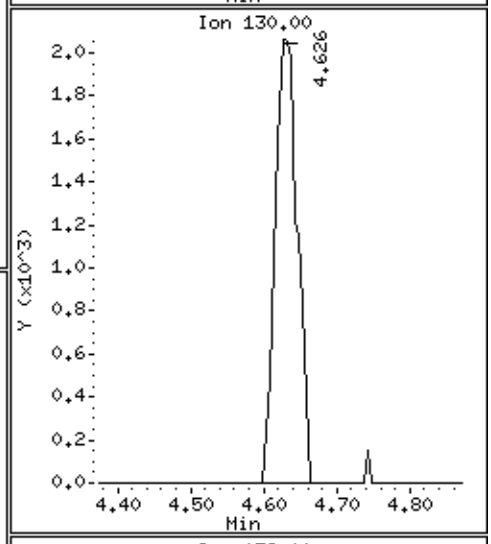
Concentration: 2.72 ppb

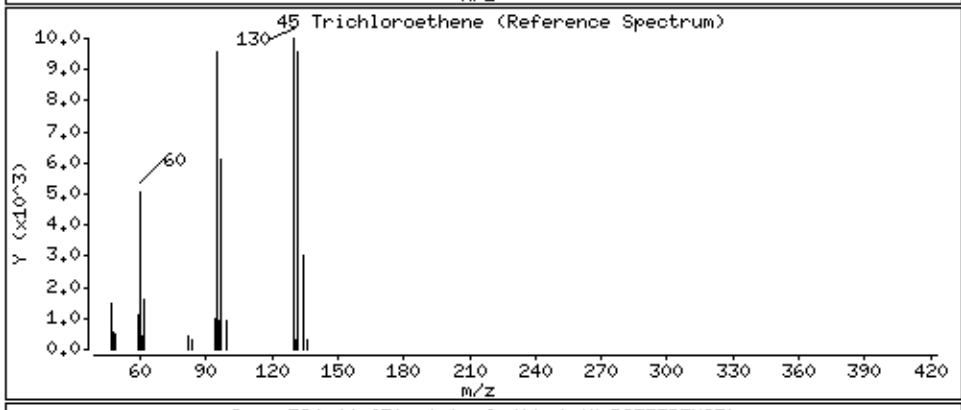
Review Code:

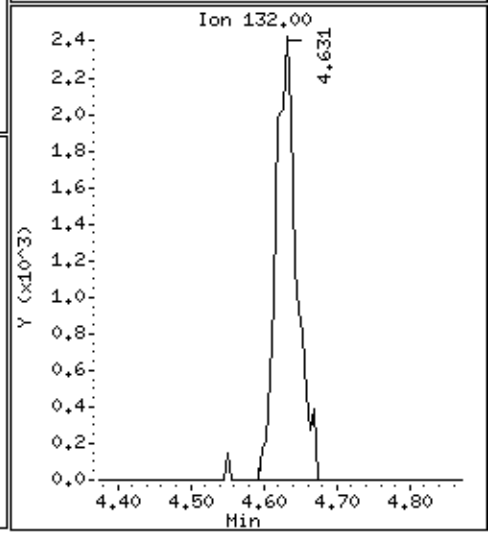


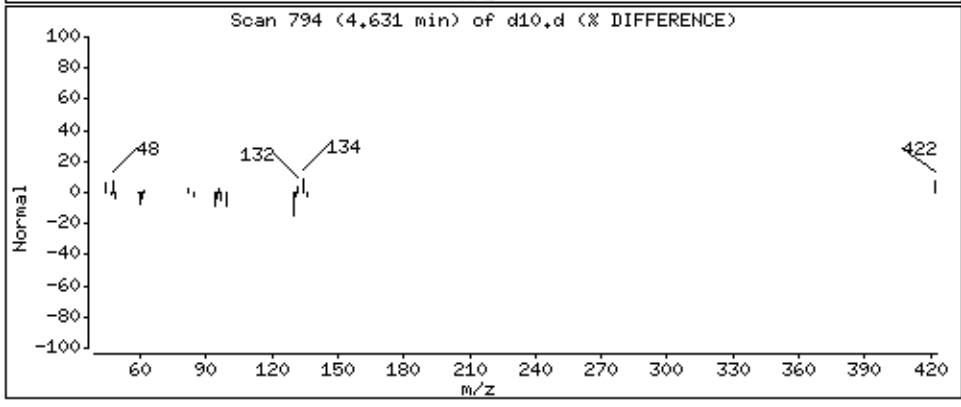












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d10.d

Date : 12-APR-2016 04:02

Client ID: MW-0619-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666025

Purge Volume: 5.0

Operator: jlz

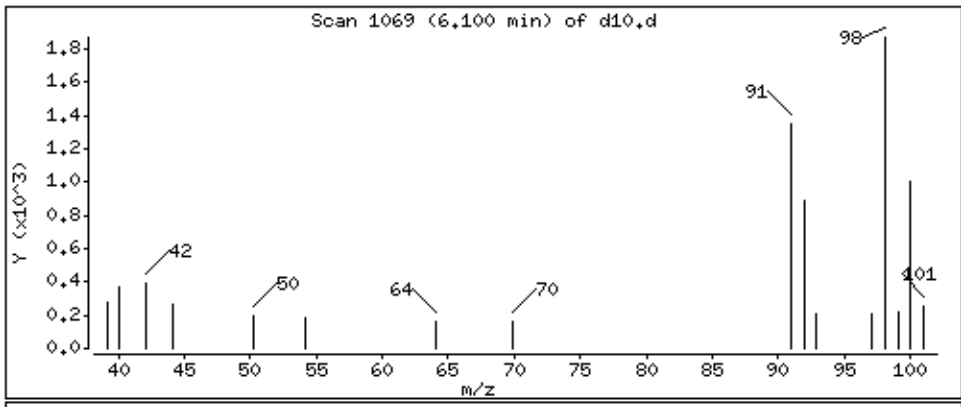
Column phase: DB-624

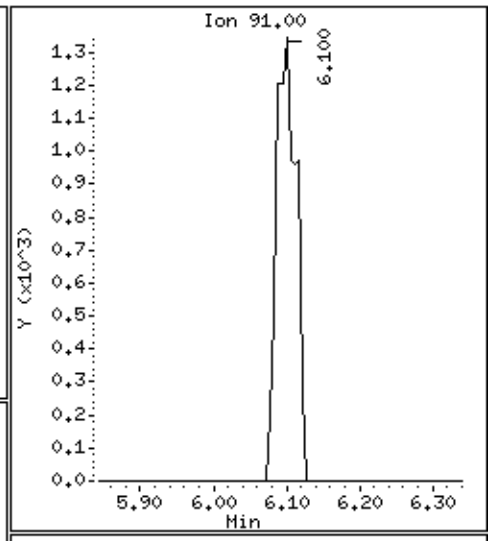
Column diameter: 0.18

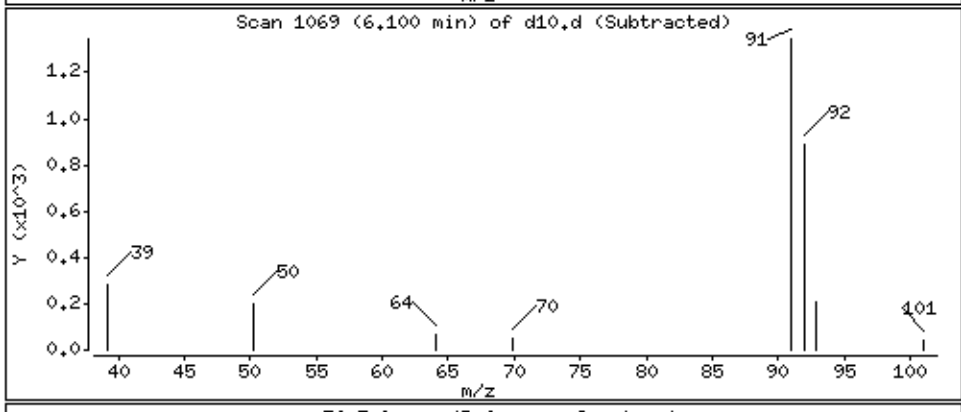
56 Toluene

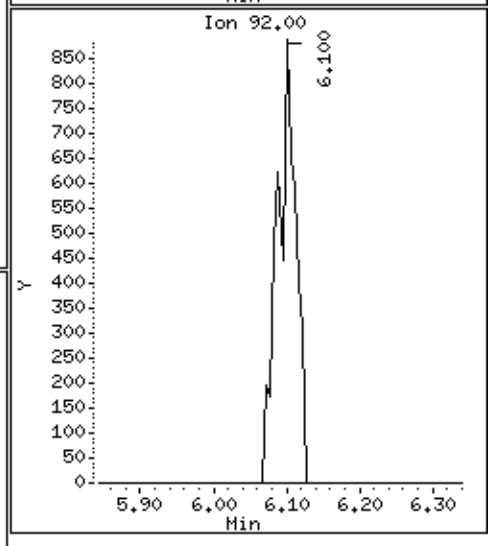
Concentration: 0.331 ppb

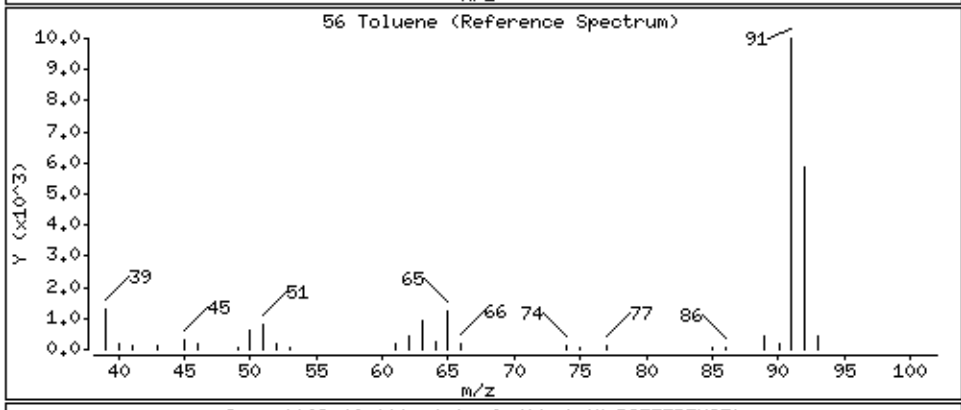
Review Code:

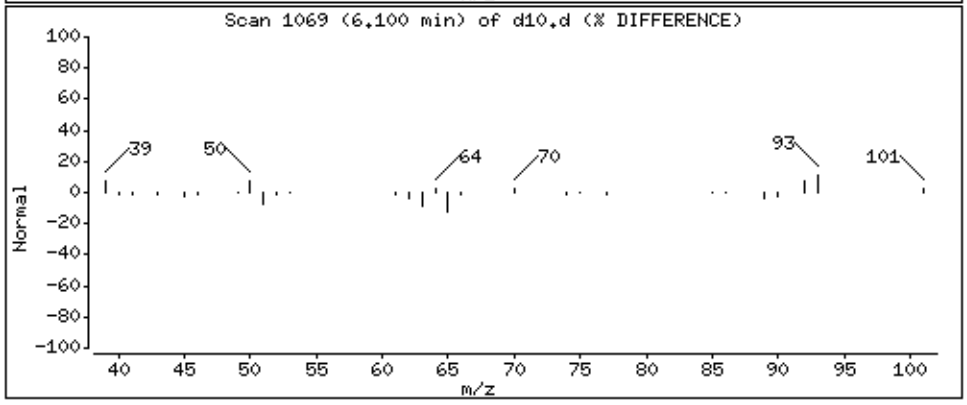












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d10.d
Injection Date: 12-APR-2016 04:02
Instrument: 50mv3b.i
Lab Sample ID: 50141666025
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0620-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/13/2016 02:20 Lab Sample ID: 50141666026

Date Analyzed: 04/13/2016 02:20 Lab File ID: A041216.B\G05.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	4690	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041216.b\g05.d
Lab Smp Id: 50141666026 Client Smp ID: MW-0620-S1(033016)P
Inj Date : 13-APR-2016 02:20
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666026x50
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041216.b\-a8260_a_c.m
Meth Date : 13-Apr-2016 10:48 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 53
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

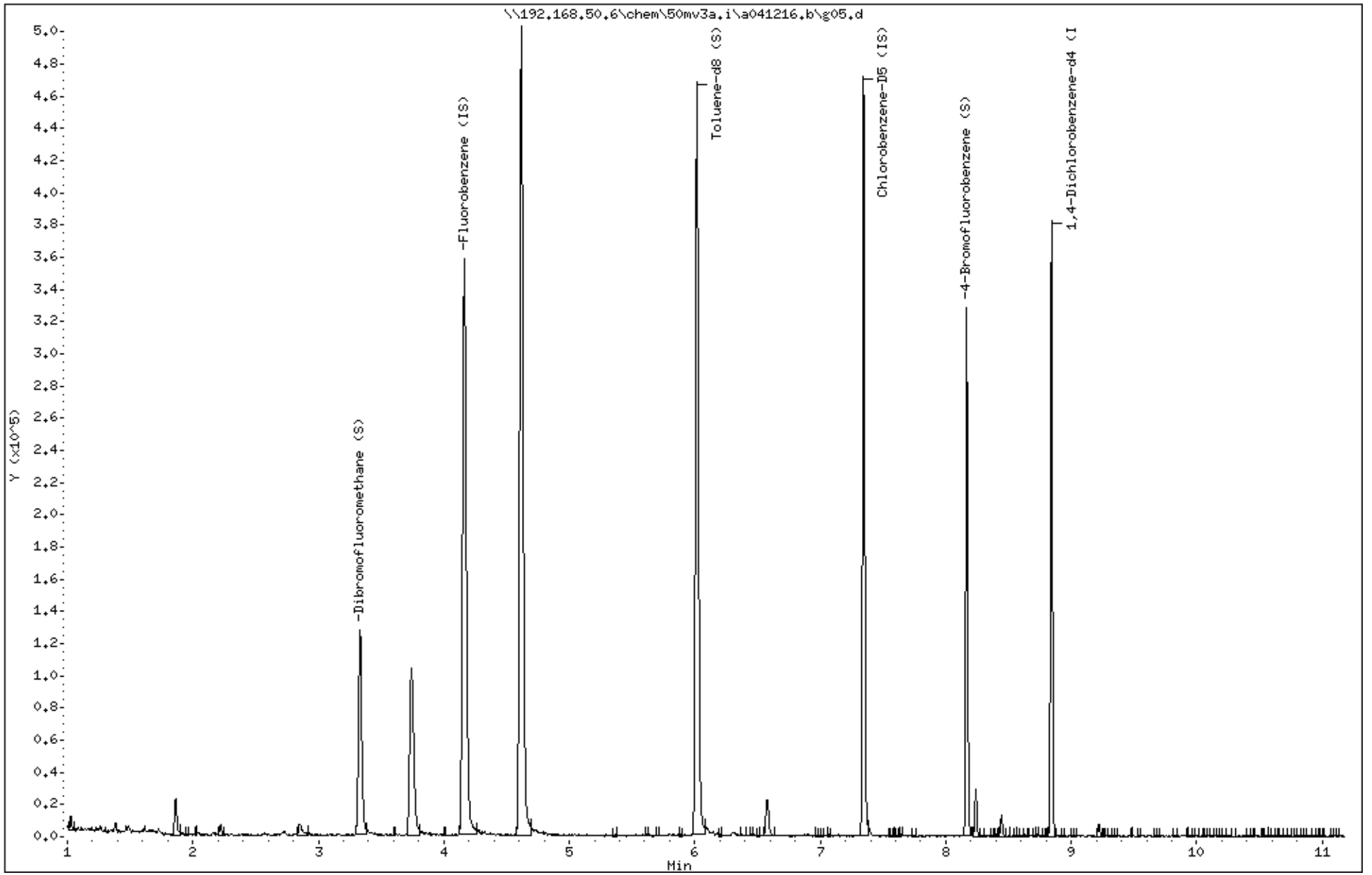
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
18 Methylene Chloride	84	1.866	1.862	(0.448)	6843	3.84511	192	
$ 35 Dibromofluoromethane (S)	113	3.330	3.331	(0.800)	82180	52.4224	52.4	
* 45 Fluorobenzene (IS)	96	4.163	4.164	(1.000)	347924	50.0000		
46 Trichloroethene	95	4.617	4.618	(1.109)	165584	93.8964	4690	
$ 56 Toluene-d8 (S)	98	6.016	6.017	(0.820)	284320	48.9913	49.0	
* 66 Chlorobenzene-D5 (IS)	117	7.341	7.342	(1.000)	168928	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.163	8.164	(1.112)	62408	44.7122	44.7	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	57698	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g05.d
Date : 13-APR-2016 02:20
Client ID: MW-0620-S1(033016)P
Sample Info: 50141666026x50
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g05.d

Date : 13-APR-2016 02:20

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666026x50

Purge Volume: 5.0

Operator: jlz

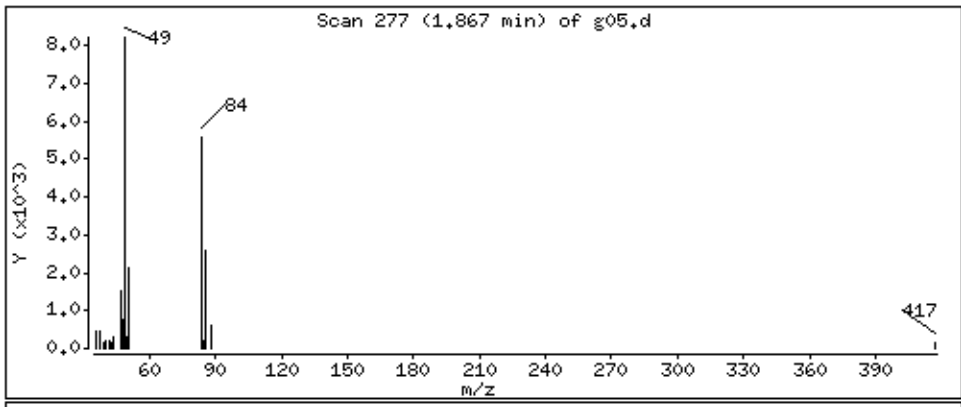
Column phase: DB-624

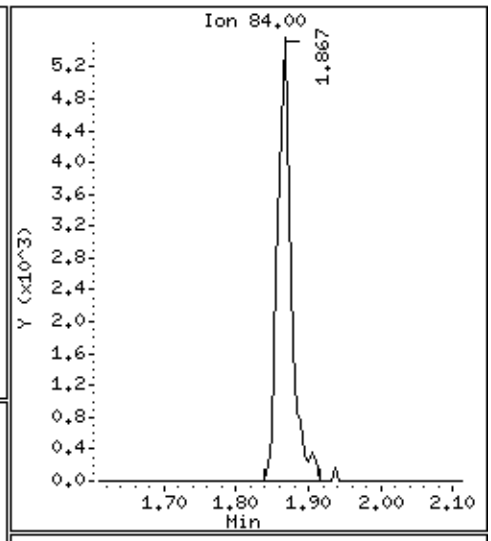
Column diameter: 0.18

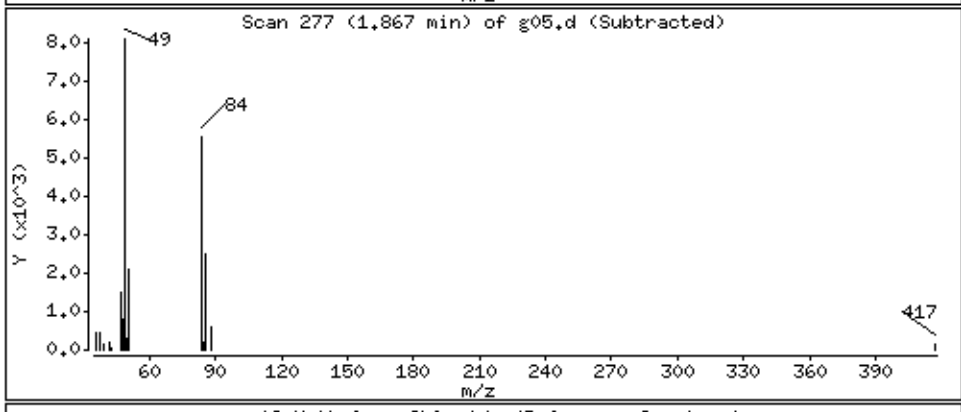
18 Methylene Chloride

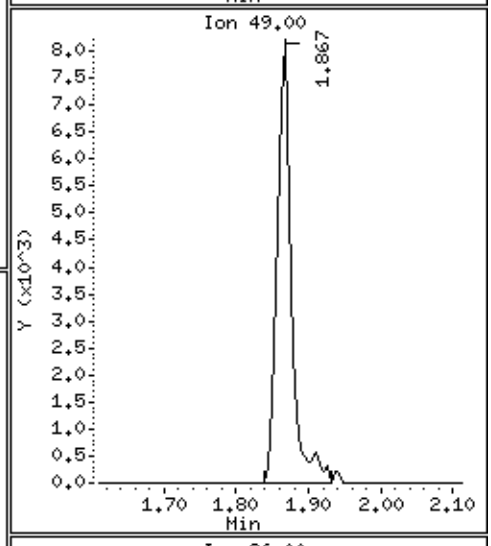
Concentration: 192 ppb

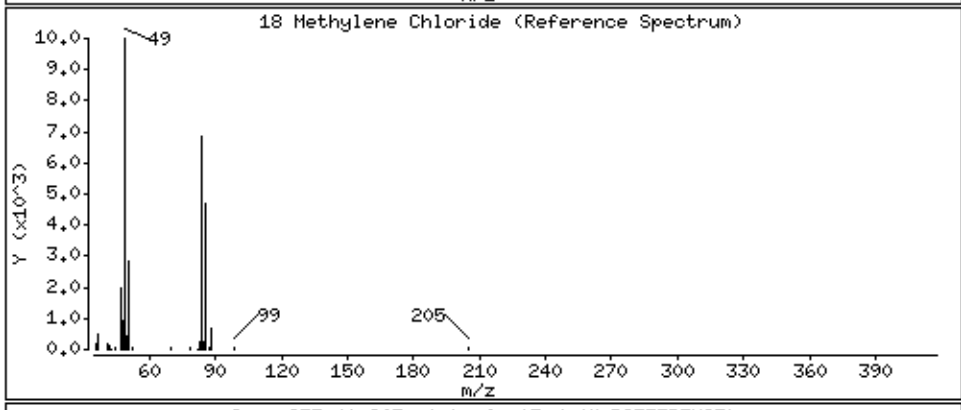
Review Code:

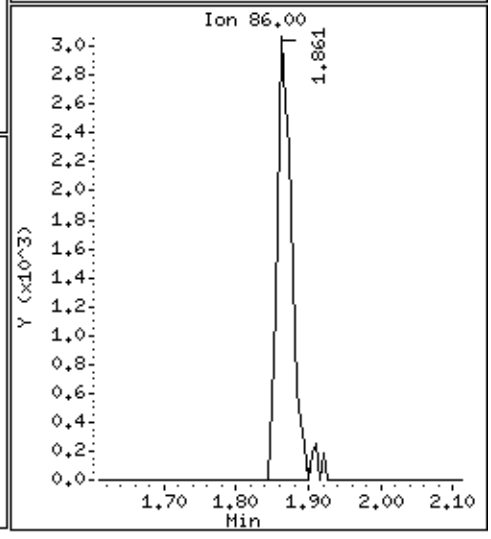


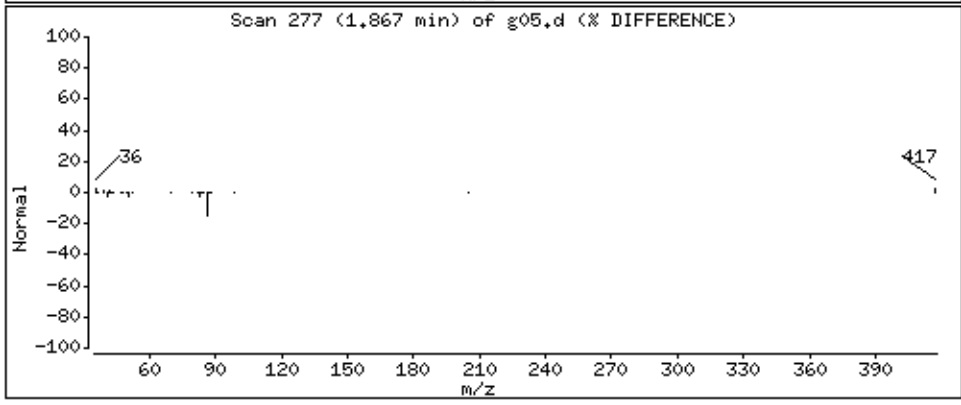












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g05.d

Date : 13-APR-2016 02:20

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 50141666026x50

Purge Volume: 5.0

Operator: jlz

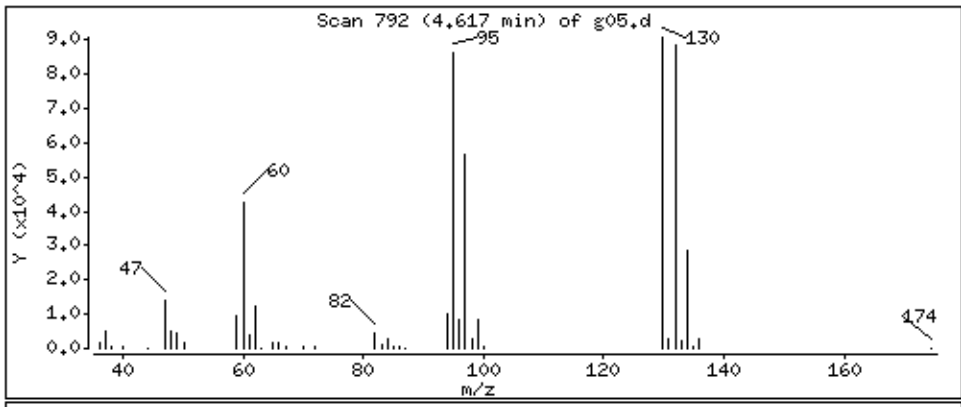
Column phase: DB-624

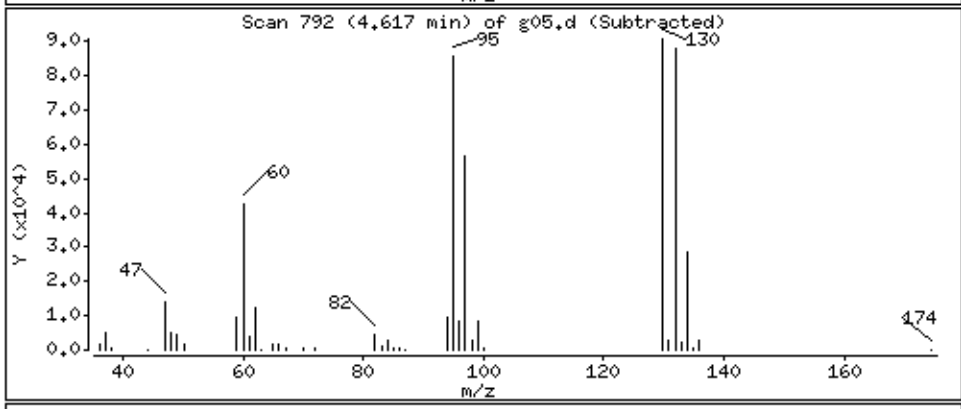
Column diameter: 0.18

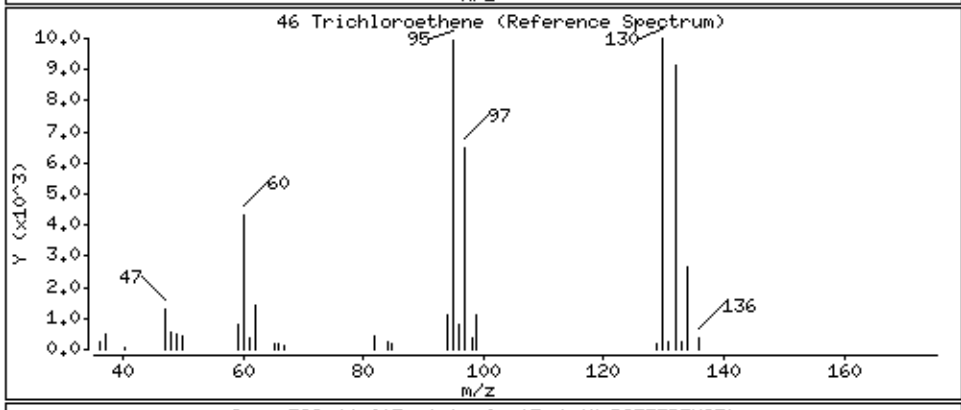
46 Trichloroethene

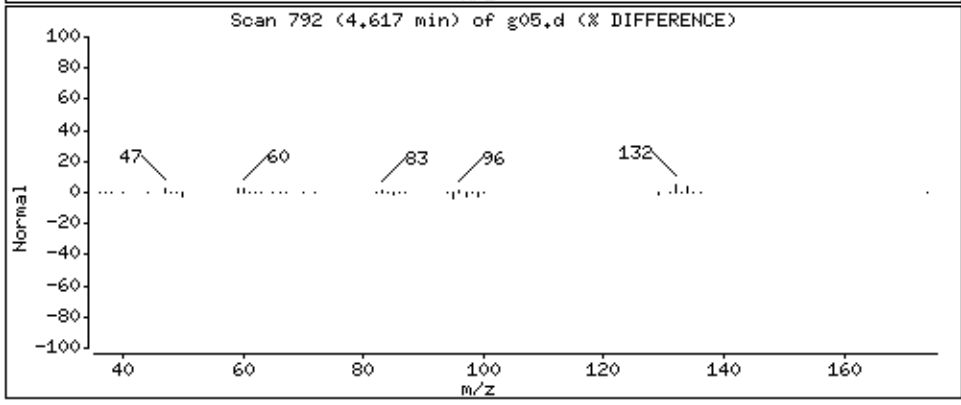
Concentration: 4690 ppb

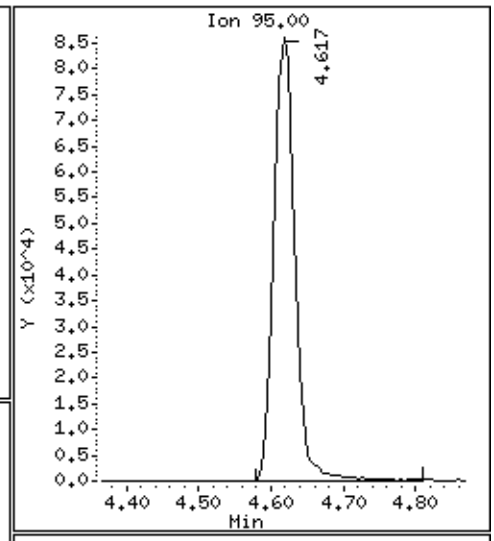
Review Code:

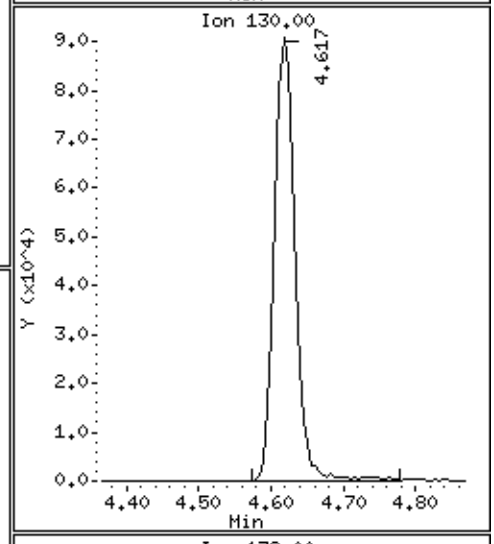


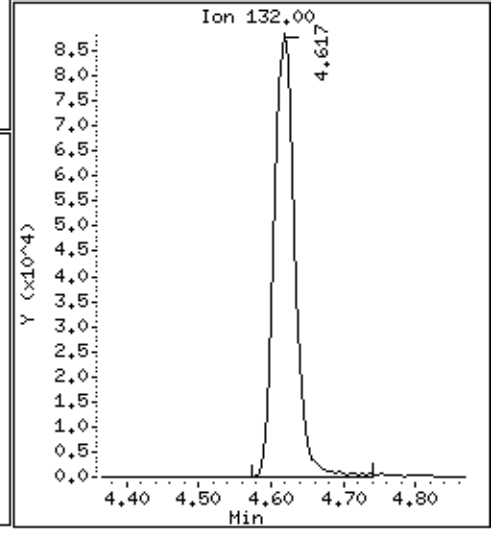












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b/g05.d
Injection Date: 13-APR-2016 02:20
Instrument: 50mv3a.i
Lab Sample ID: 50141666026
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0620-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 08:18 Lab Sample ID: 50141666026

Date Analyzed: 04/12/2016 08:18 Lab File ID: B041116.B\D18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	6.0	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0620-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 08:18 Lab Sample ID: 50141666026

Date Analyzed: 04/12/2016 08:18 Lab File ID: B041116.B\D18.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d
Lab Smp Id: 50141666026 Client Smp ID: MW-0620-S1(033016)P
Inj Date : 12-APR-2016 08:18
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666026
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

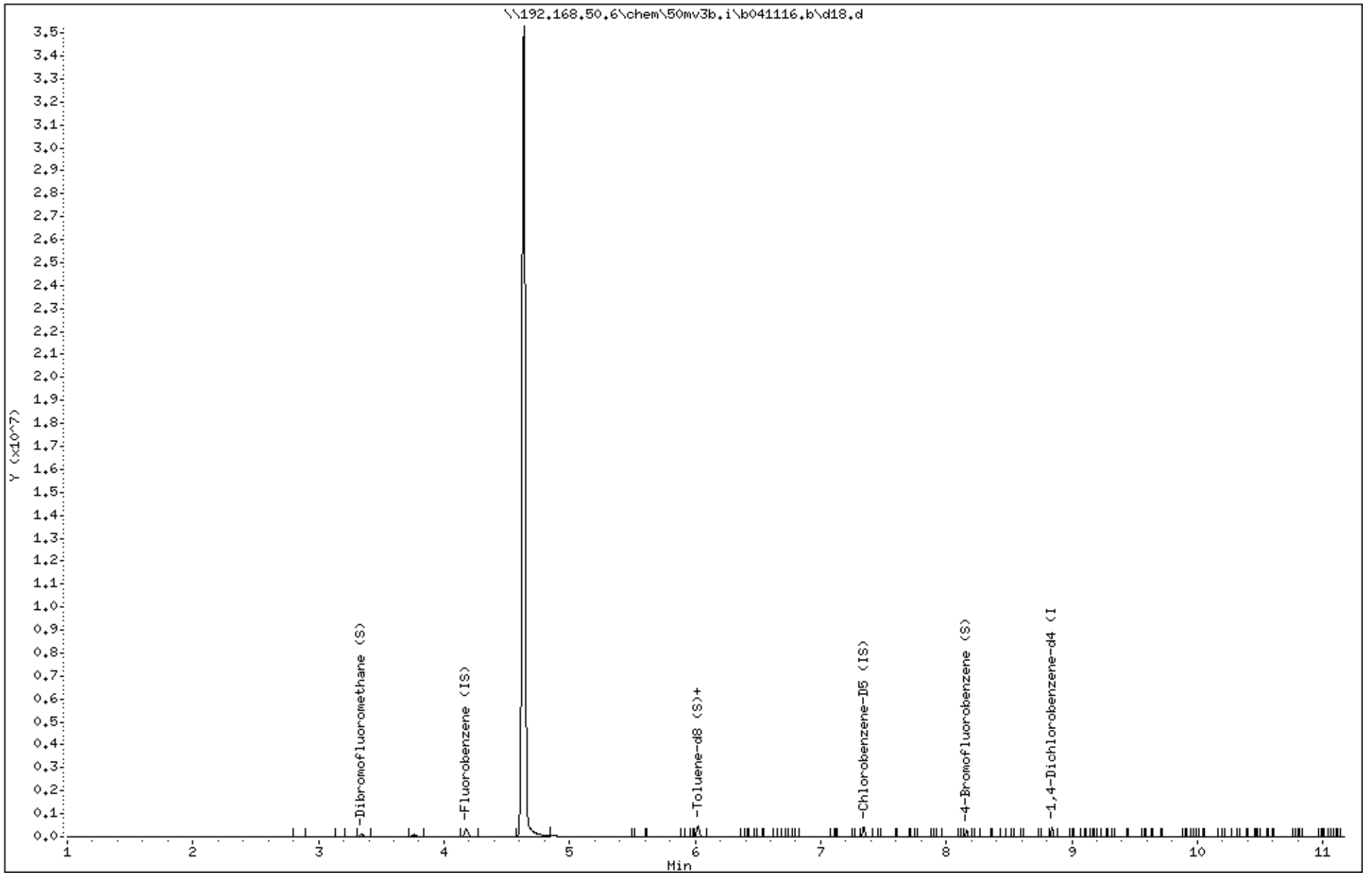
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.611	1.611	(0.386)	11144	25.5497	25.5	
	28 1,2-Dichloroethene (cis)	96	2.828	2.824	(0.678)	10264	5.96581	5.96	
	34 Chloroform	83	3.170	3.165	(0.759)	12421	4.43714	4.44	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	73640	50.4394	50.4	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	318852	50.0000		
	45 Trichloroethene	95	4.639	4.624	(1.111)	11272514	7075.86	7080	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	256968	50.5012	50.5	
	56 Toluene	91	6.097	6.092	(0.830)	1918	0.28941	0.289	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	157467	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	56990	41.1964	41.2	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	57115	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d
Date : 12-APR-2016 08:18
Client ID: MW-0620-S1(033016)P
Sample Info: 50141666026
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d

Date : 12-APR-2016 08:18

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666026

Purge Volume: 5.0

Operator: jlz

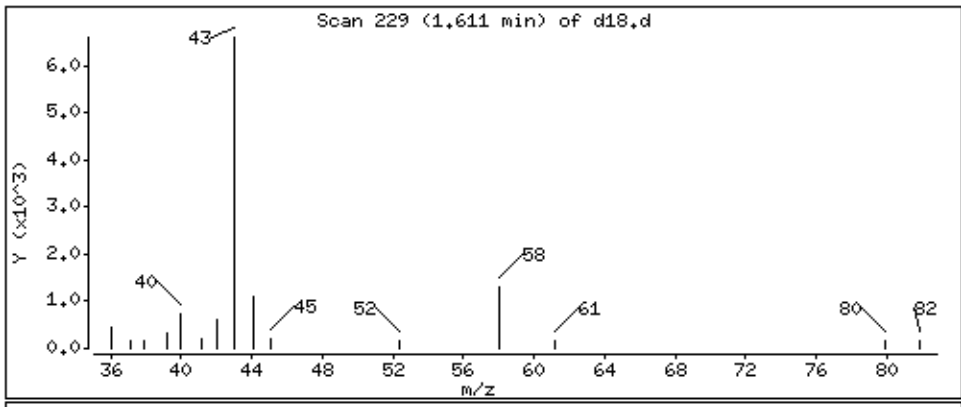
Column phase: DB-624

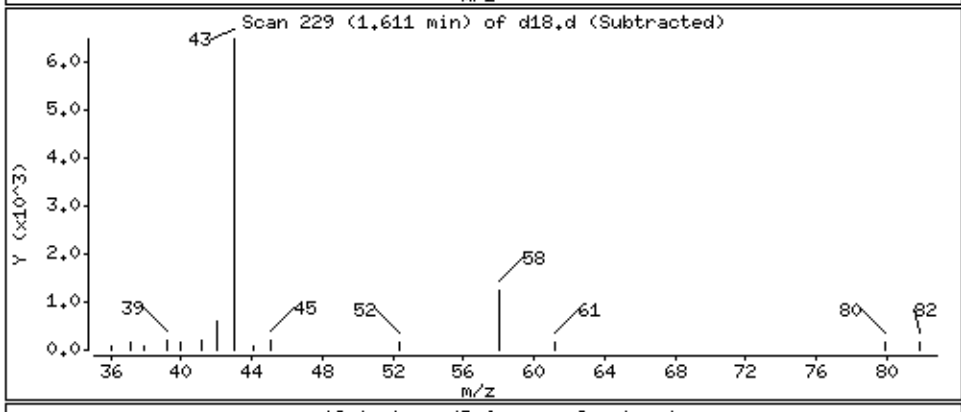
Column diameter: 0.18

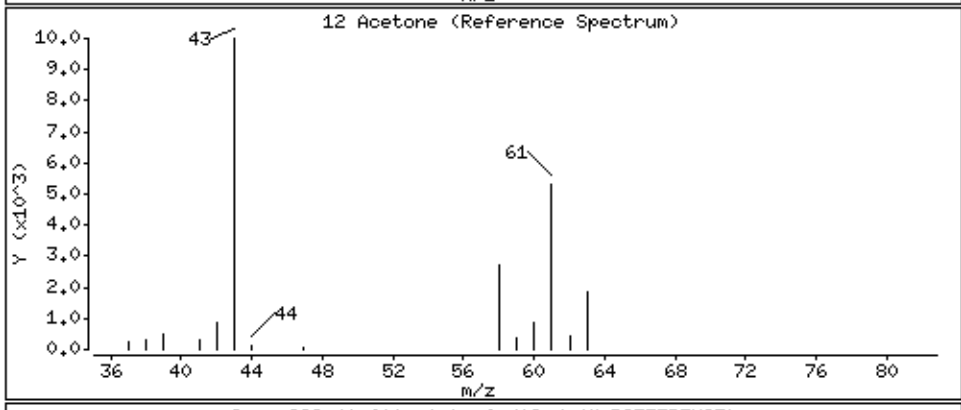
12 Acetone

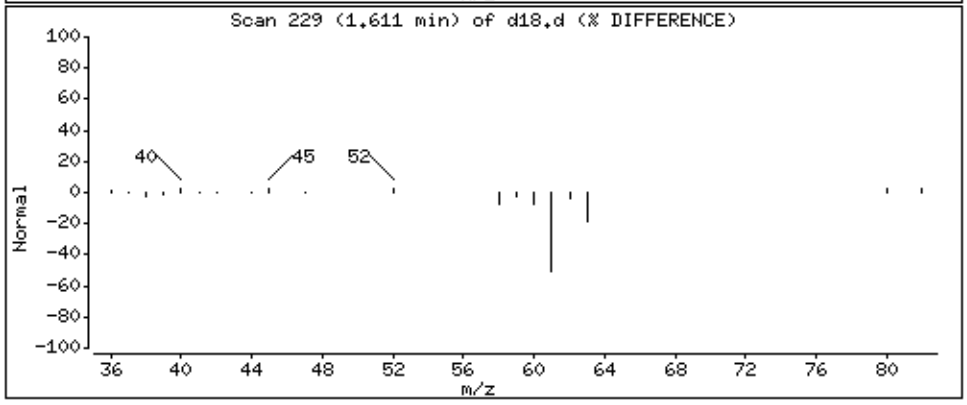
Concentration: 25.5 ppb

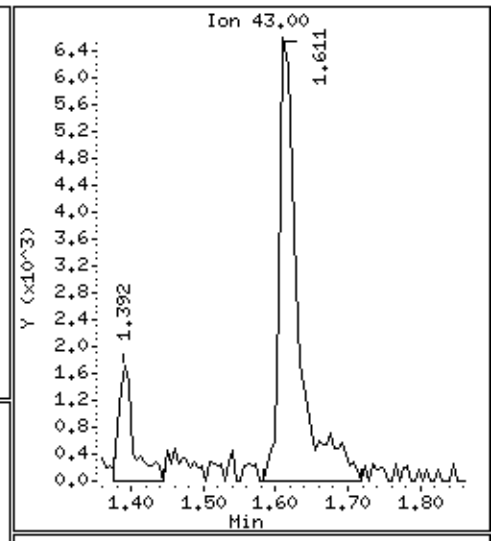
Review Code:

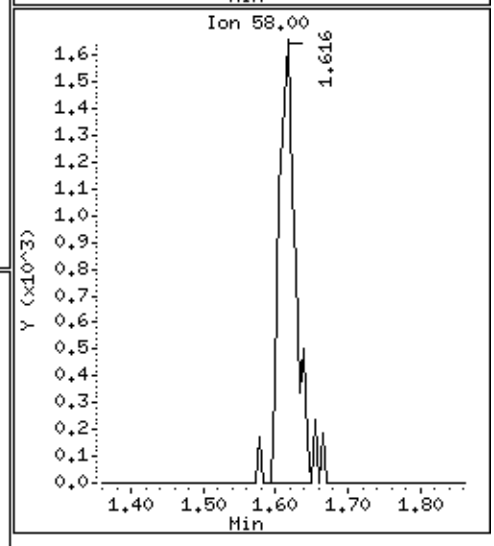












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d

Date : 12-APR-2016 08:18

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666026

Purge Volume: 5.0

Operator: jlz

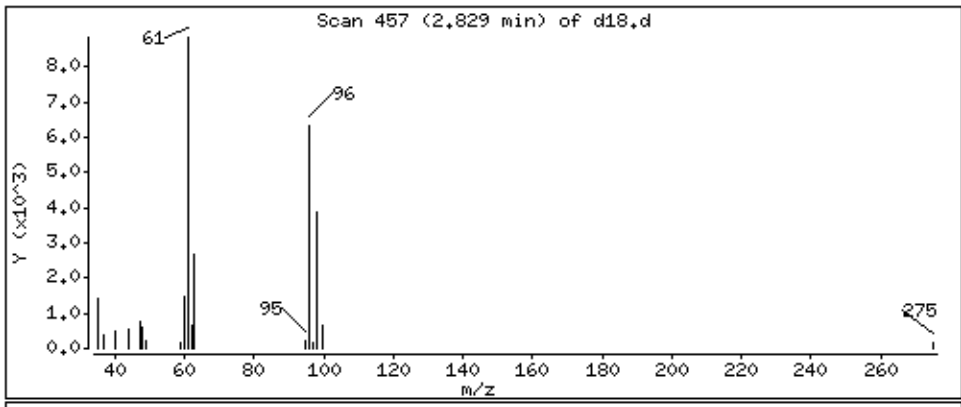
Column phase: DB-624

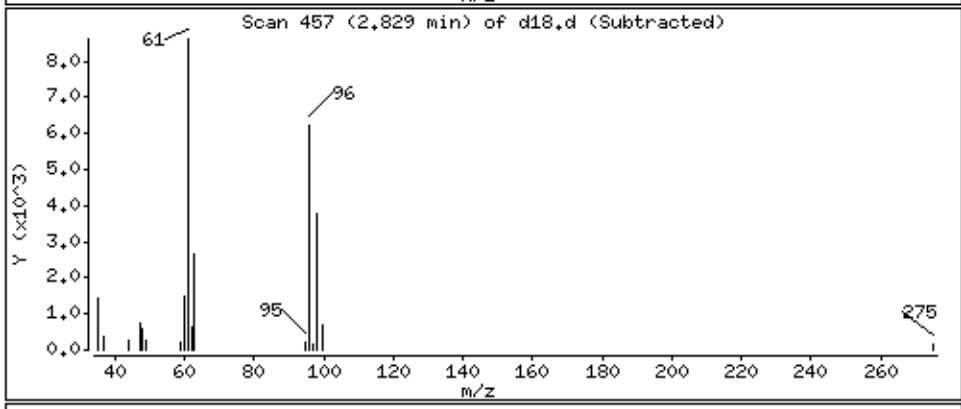
Column diameter: 0.18

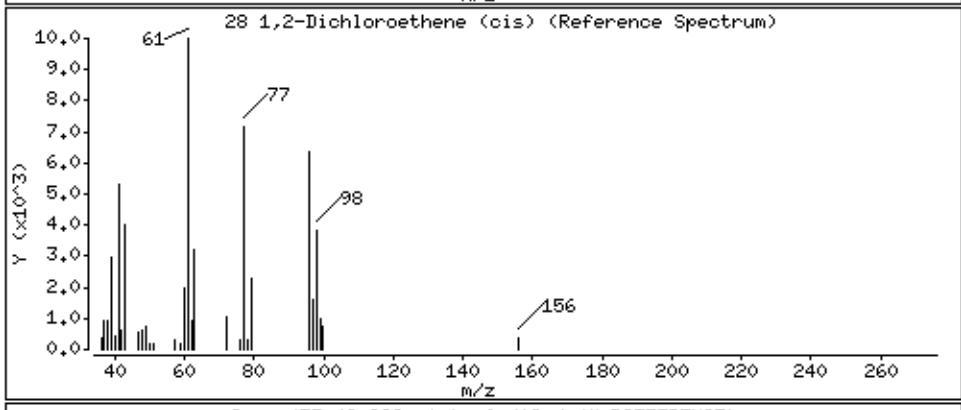
28 1,2-Dichloroethene (cis)

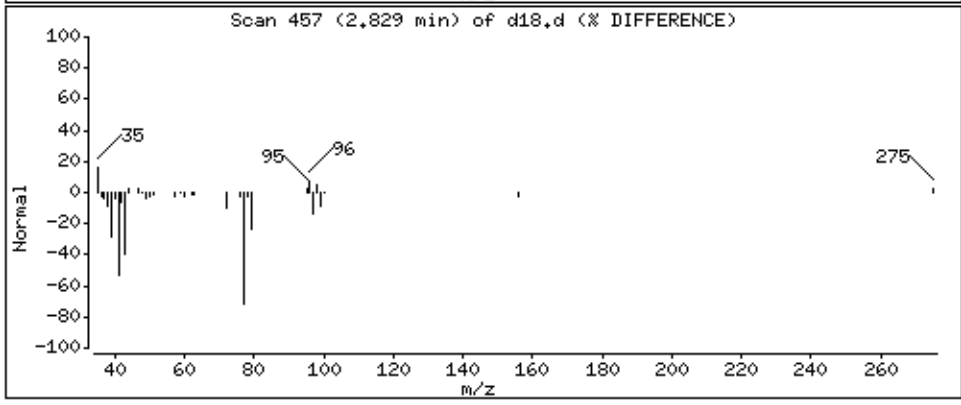
Concentration: 5.96 ppb

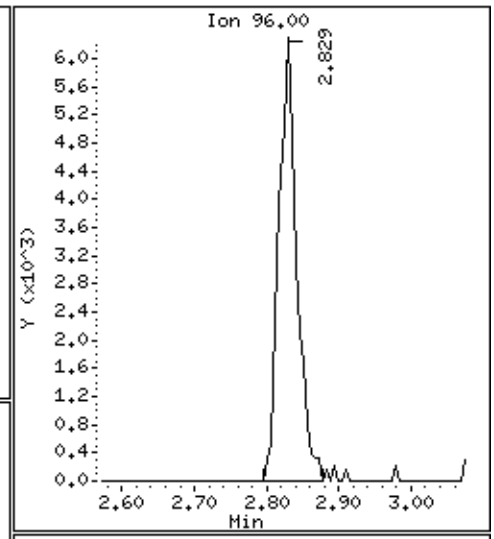
Review Code:

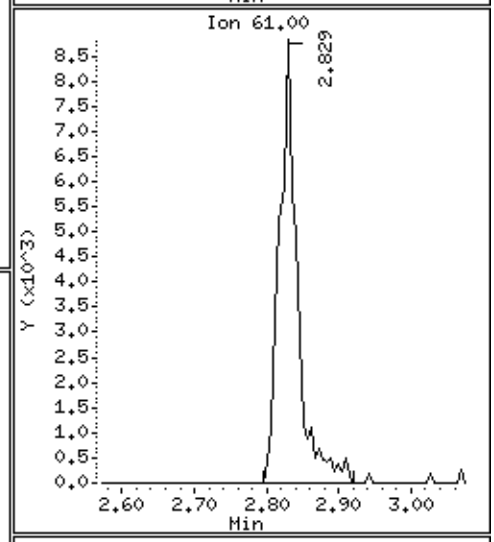


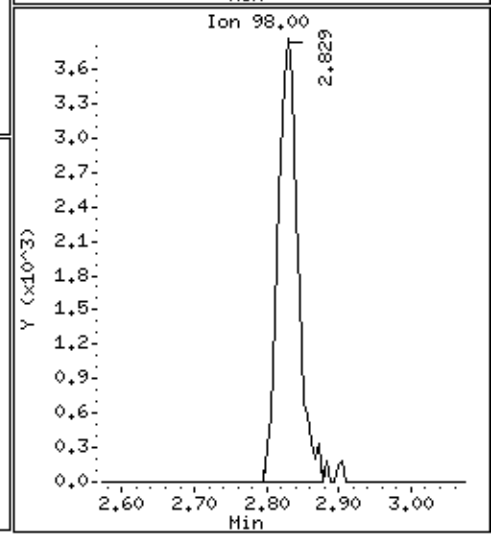












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d

Date : 12-APR-2016 08:18

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666026

Purge Volume: 5.0

Operator: jlz

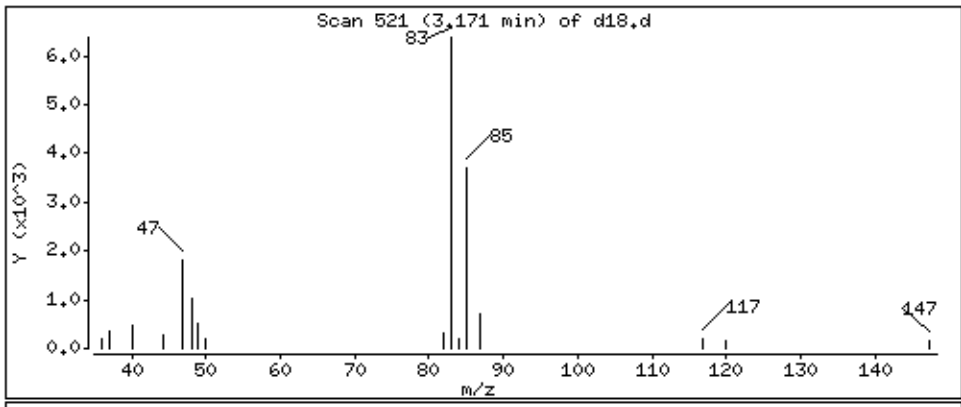
Column phase: DB-624

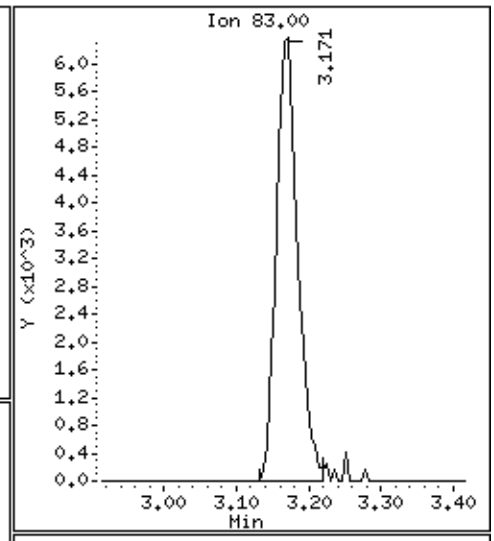
Column diameter: 0.18

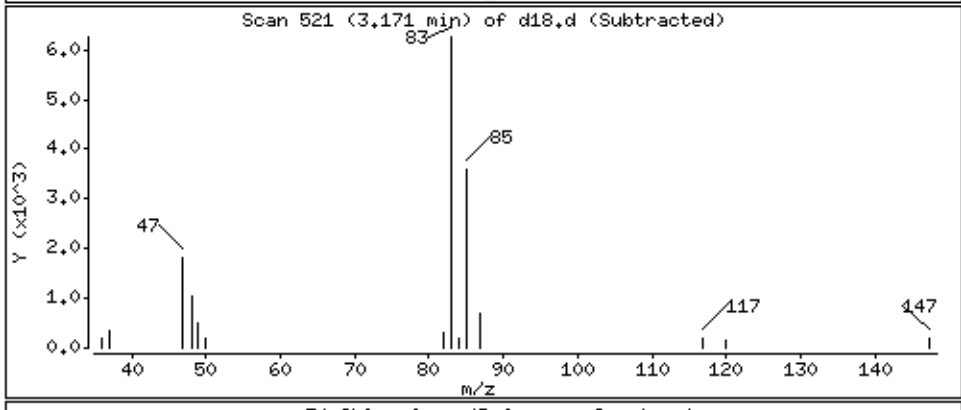
34 Chloroform

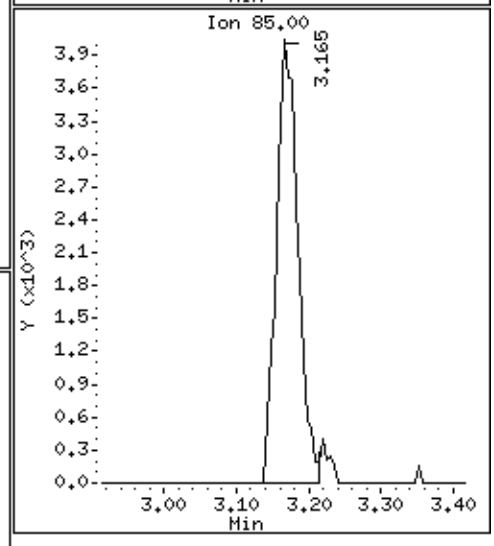
Concentration: 4.44 ppb

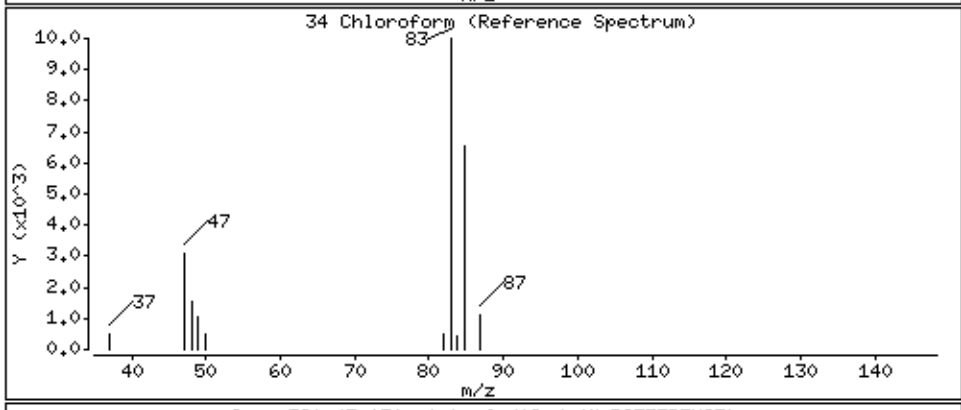
Review Code:

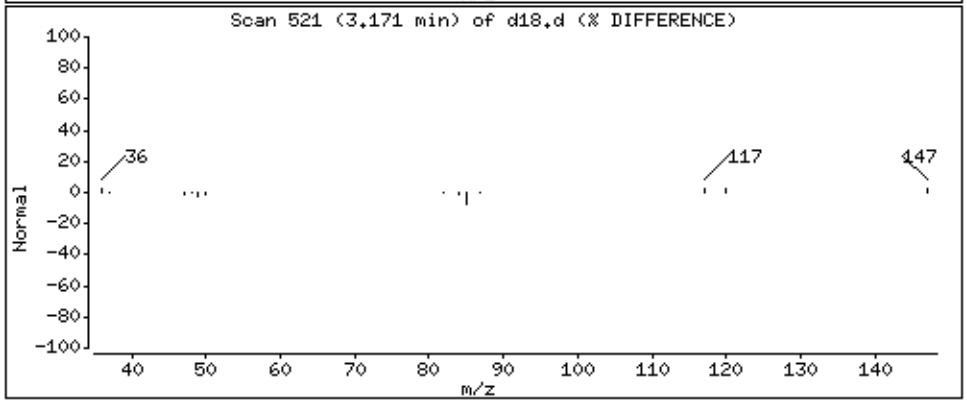












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d

Date : 12-APR-2016 08:18

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666026

Purge Volume: 5.0

Operator: jlz

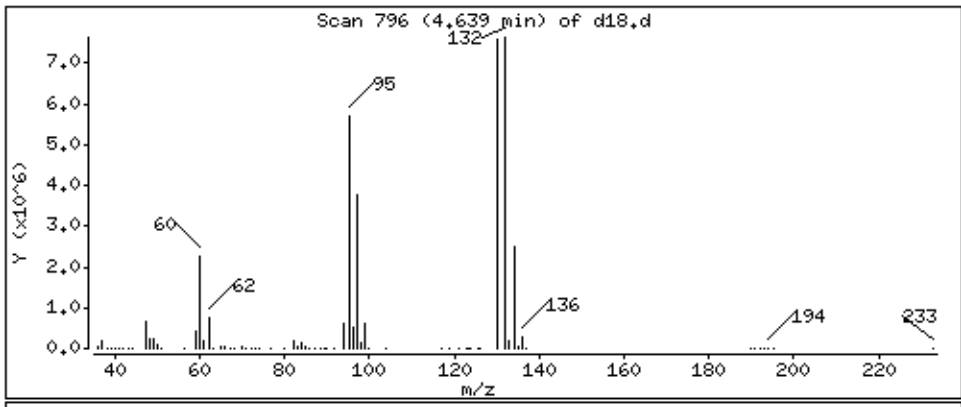
Column phase: DB-624

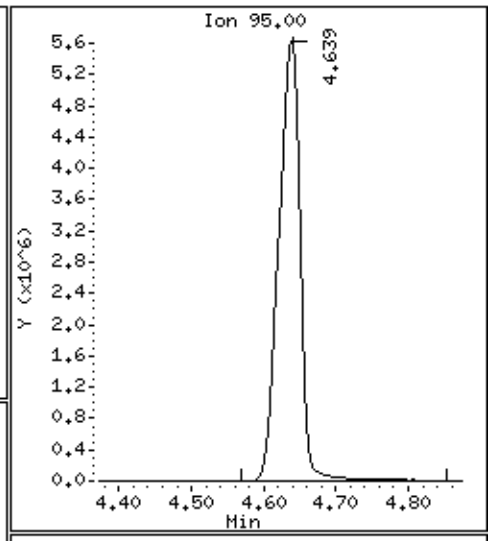
Column diameter: 0.18

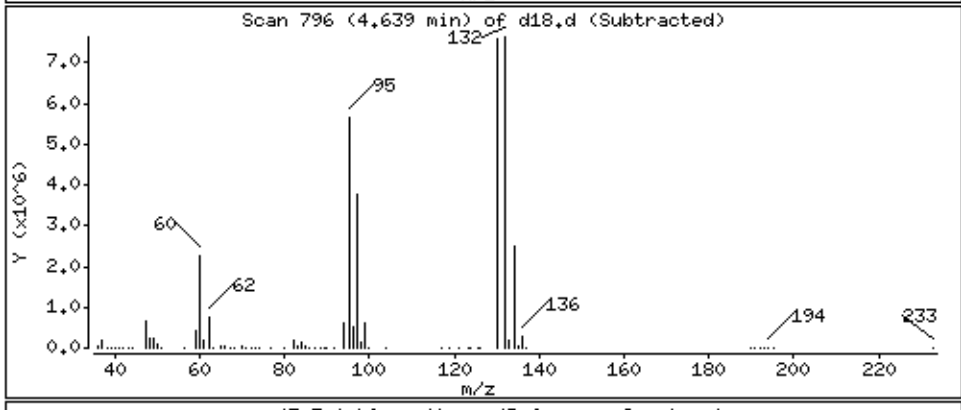
45 Trichloroethene

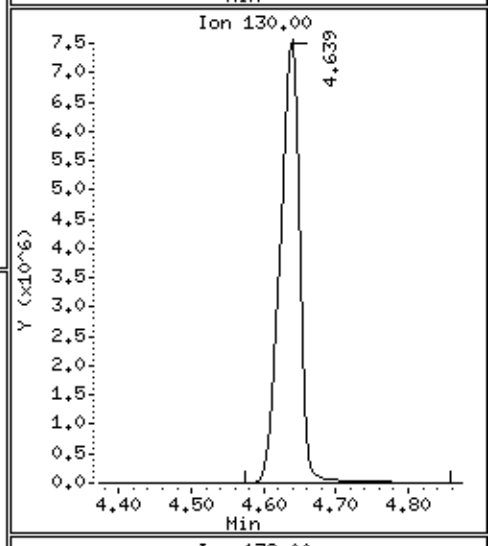
Concentration: 7080 ppb

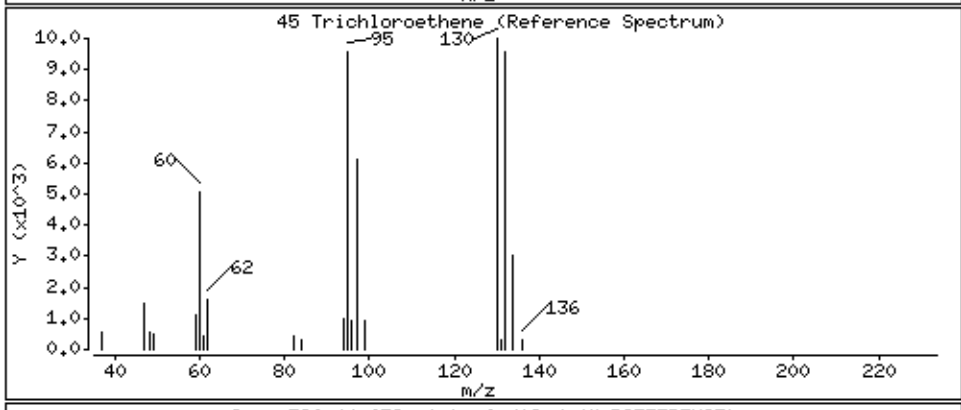
Review Code:

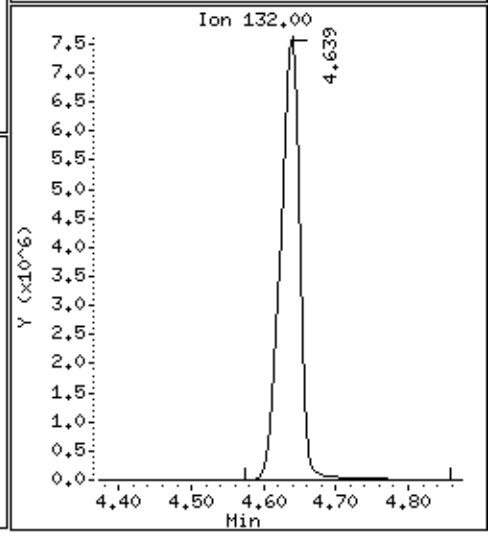


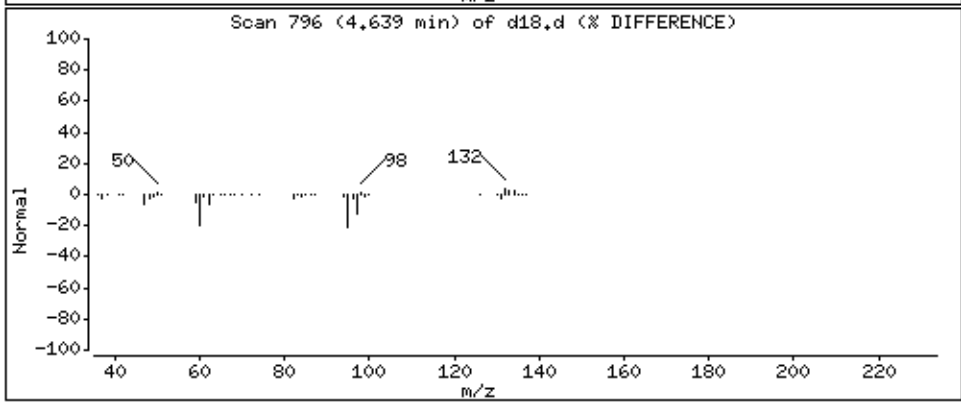












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d18.d

Date : 12-APR-2016 08:18

Client ID: MW-0620-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666026

Purge Volume: 5.0

Operator: jlz

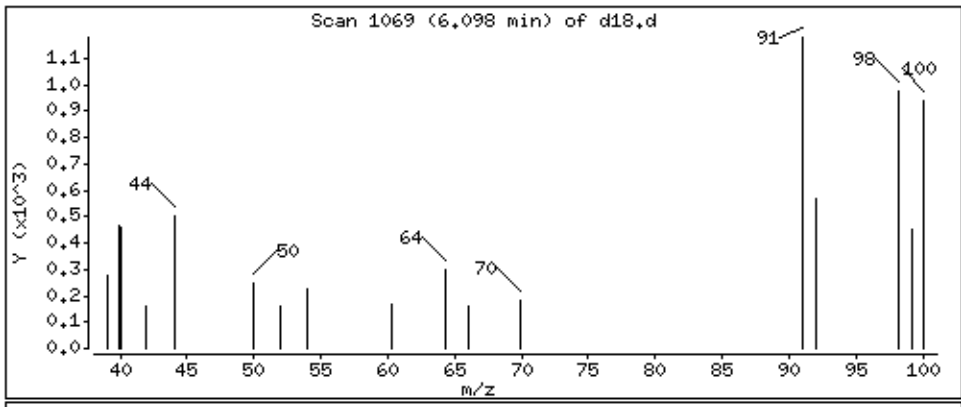
Column phase: DB-624

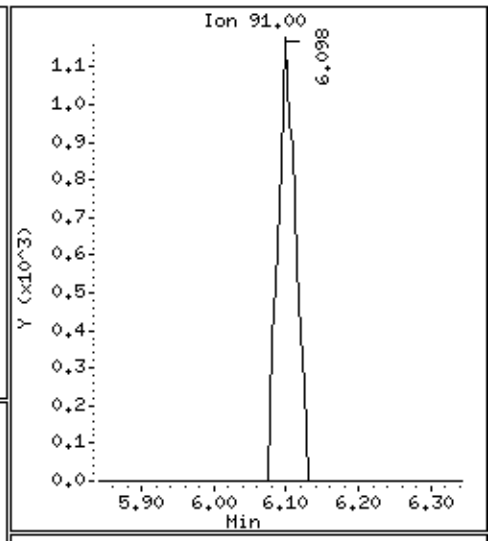
Column diameter: 0.18

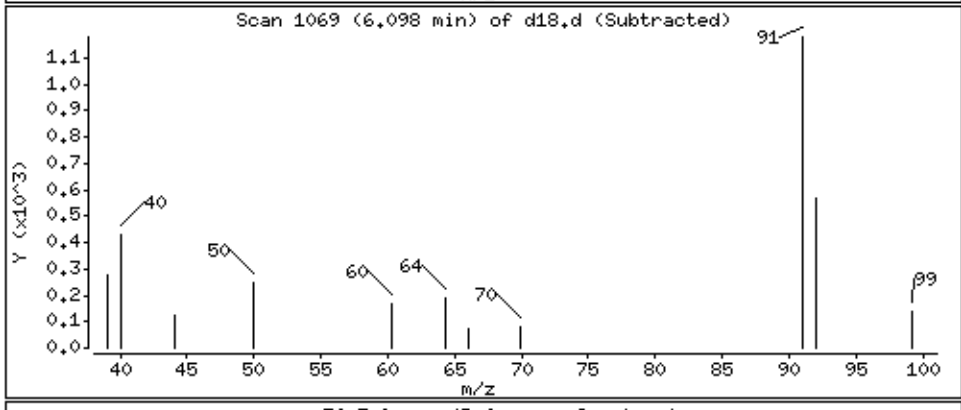
56 Toluene

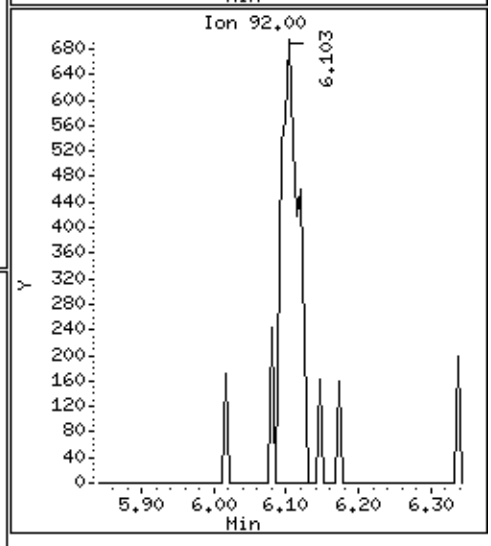
Concentration: 0.289 ppb

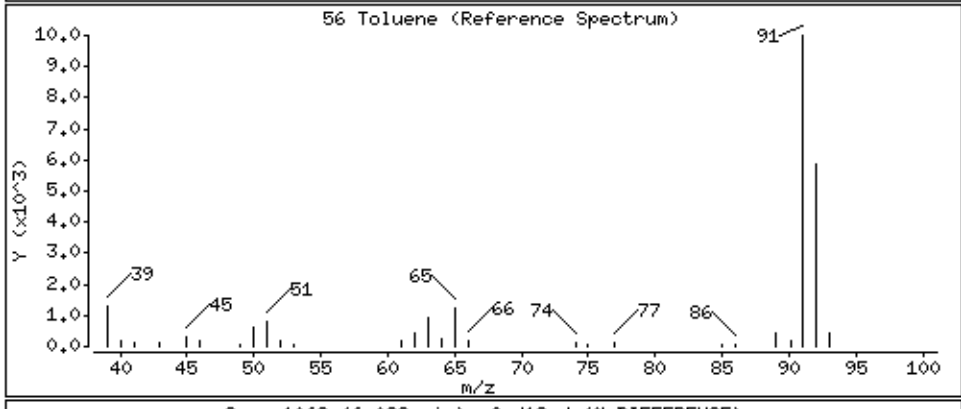
Review Code:

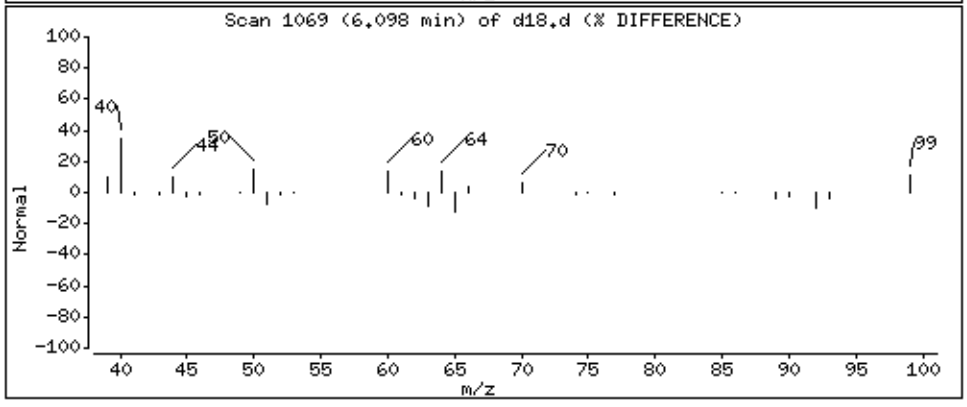












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d18.d
Injection Date: 12-APR-2016 08:18
Instrument: 50mv3b.i
Lab Sample ID: 50141666026
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-2(033016)-LM

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/13/2016 02:52 Lab Sample ID: 50141666027

Date Analyzed: 04/13/2016 02:52 Lab File ID: A041216.B\G06.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 50 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-01-6	Trichloroethene	4410	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041216.b\g06.d
Lab Smp Id: 50141666027 Client Smp ID: FD-2(033016)-LM
Inj Date : 13-APR-2016 02:52
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 50141666027x50
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041216.b\-a8260_a_c.m
Meth Date : 13-Apr-2016 10:48 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 55
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

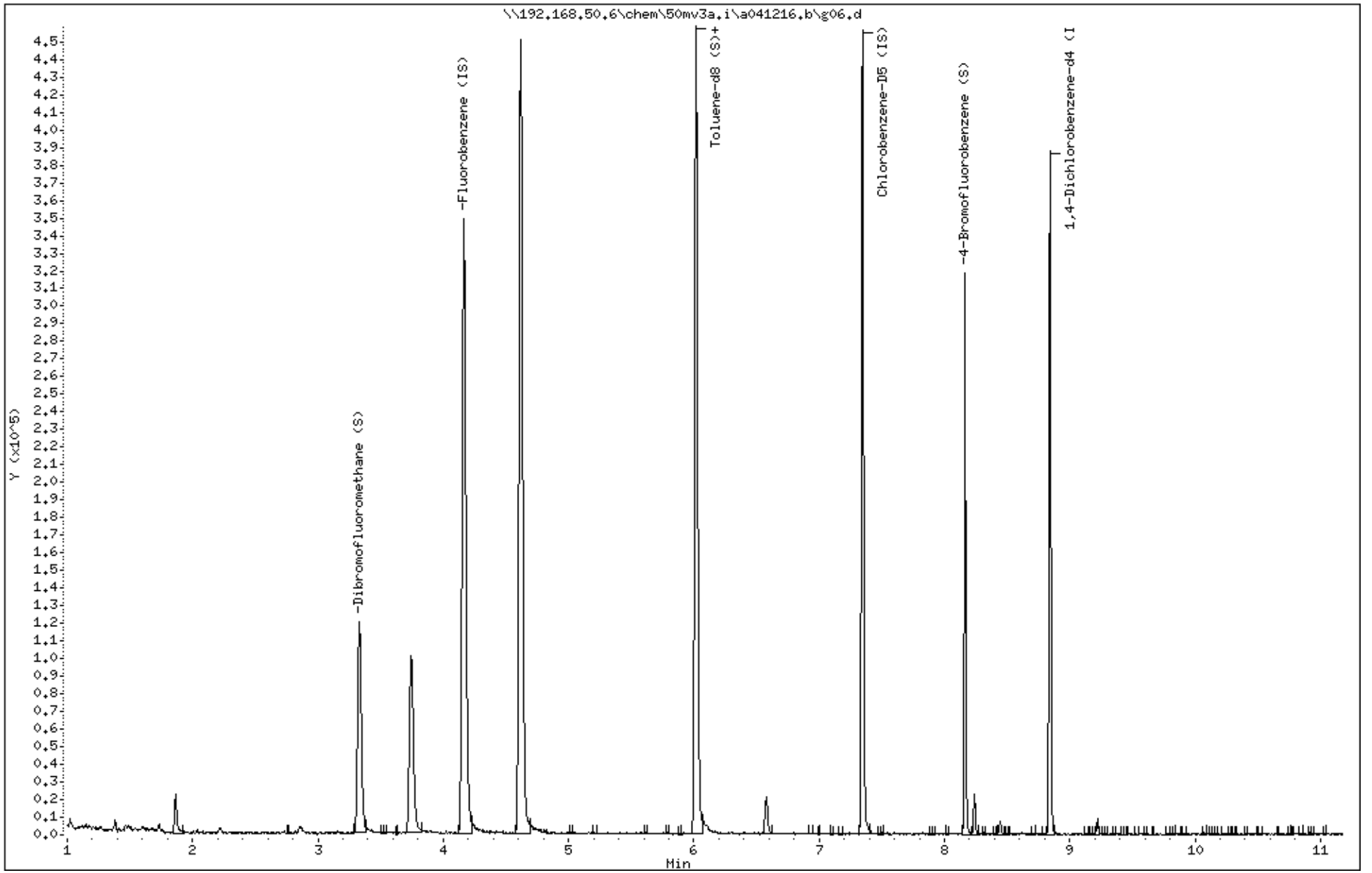
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	18 Methylene Chloride	84	1.865	1.862	(0.448)	5734	3.31837	166	
$	35 Dibromofluoromethane (S)	113	3.328	3.331	(0.799)	79460	52.2040	52.2	
*	45 Fluorobenzene (IS)	96	4.167	4.164	(1.000)	337816	50.0000		
	46 Trichloroethene	95	4.616	4.618	(1.108)	151175	88.2907	4410	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	273240	48.4440	48.4	
	57 Toluene	91	6.100	6.092	(0.831)	2073	0.28669	14.3	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.342	(1.000)	164179	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	59266	43.6894	43.7	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	55294	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g06.d
Date : 13-APR-2016 02:52
Client ID: FD-2(033016)-LM
Sample Info: 50141666027x50
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g06.d

Date : 13-APR-2016 02:52

Client ID: FD-2(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666027x50

Purge Volume: 5.0

Operator: jlz

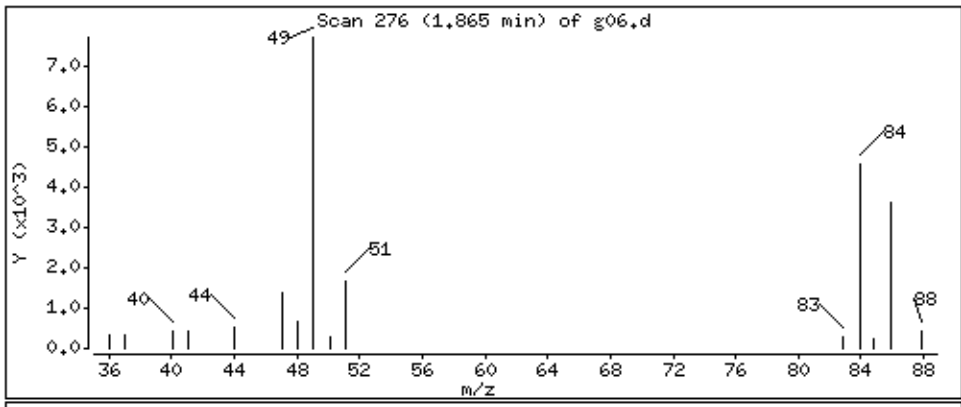
Column phase: DB-624

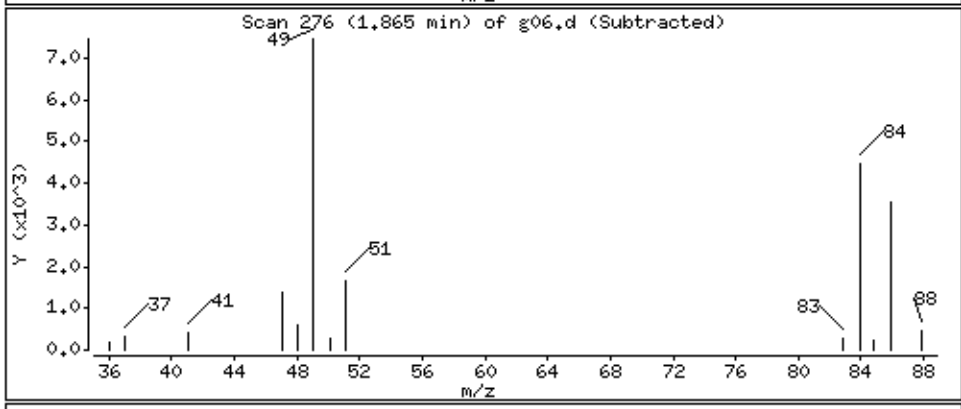
Column diameter: 0.18

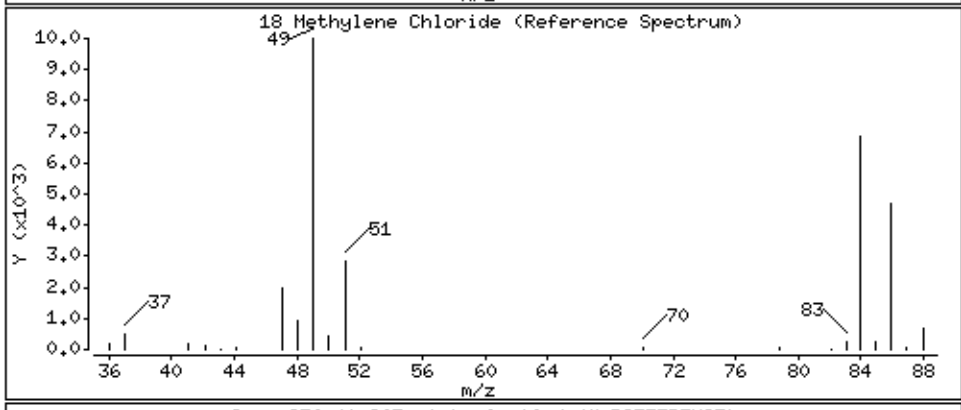
18 Methylene Chloride

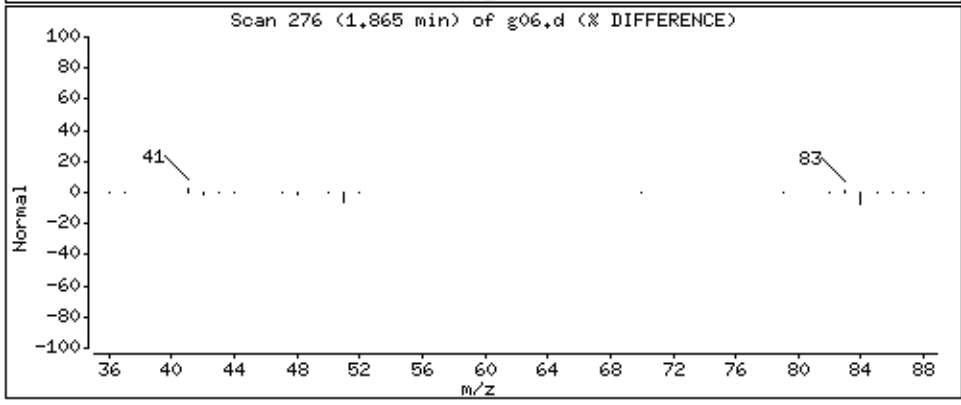
Concentration: 166 ppb

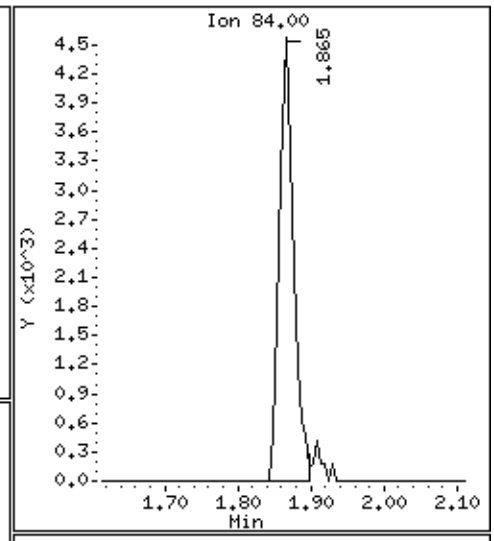
Review Code:

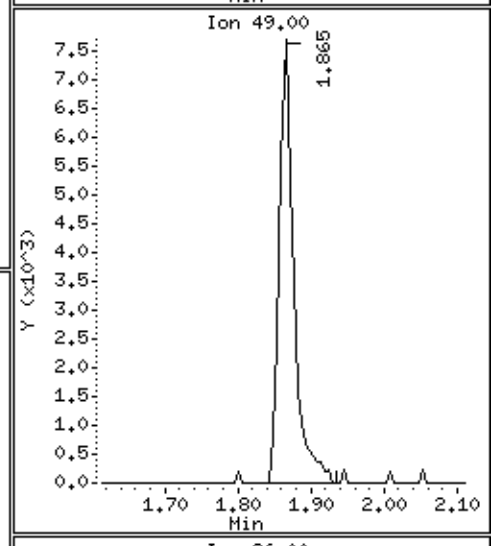


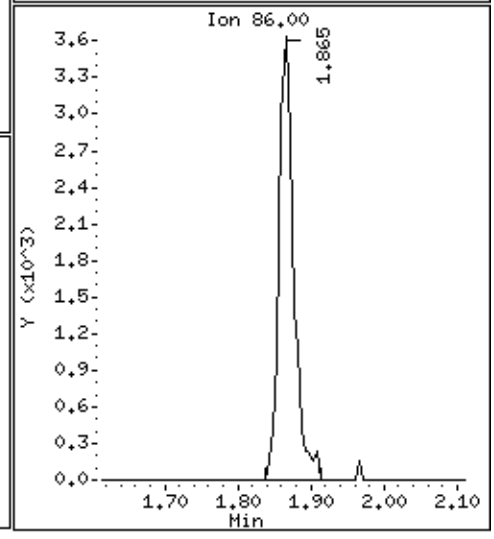












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g06.d

Date : 13-APR-2016 02:52

Client ID: FD-2(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666027x50

Purge Volume: 5.0

Operator: jlz

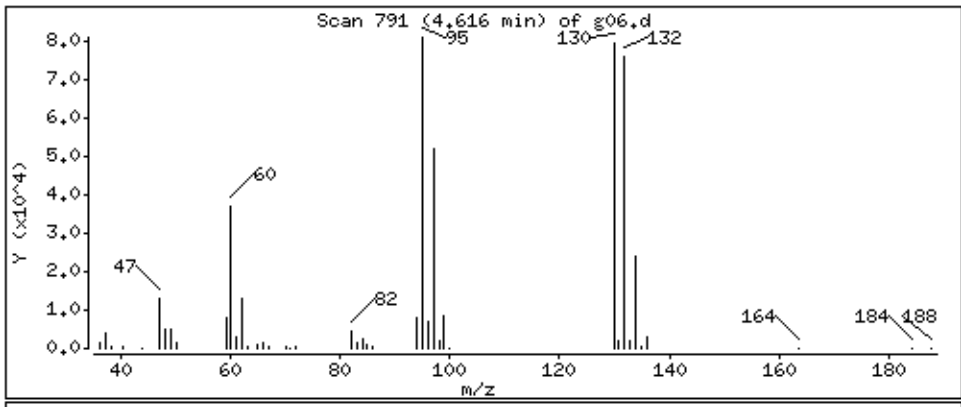
Column phase: DB-624

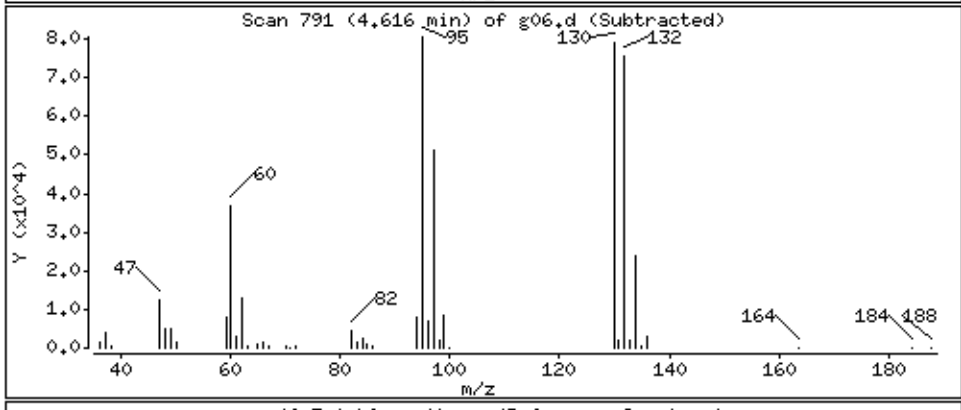
Column diameter: 0.18

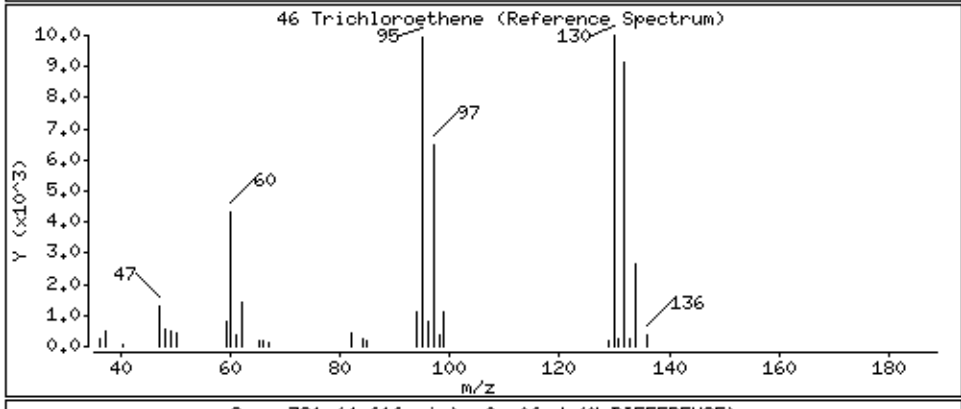
46 Trichloroethene

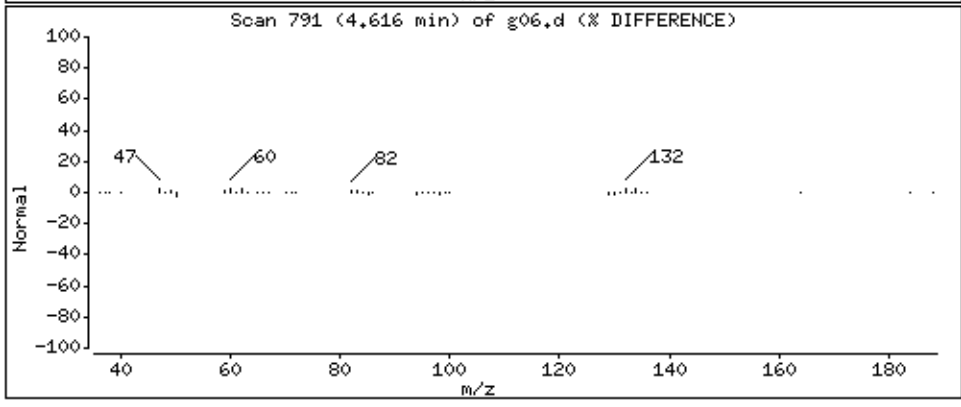
Concentration: 4410 ppb

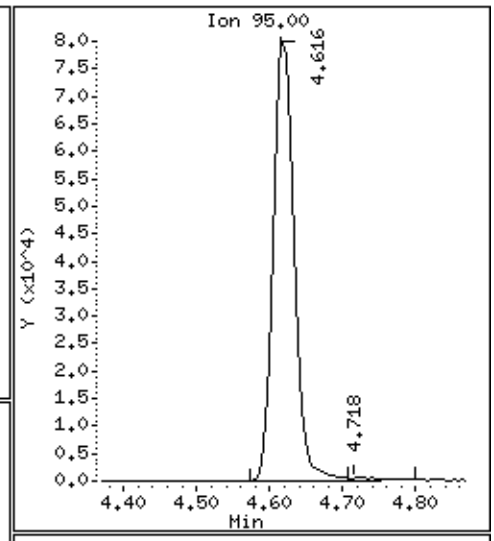
Review Code:

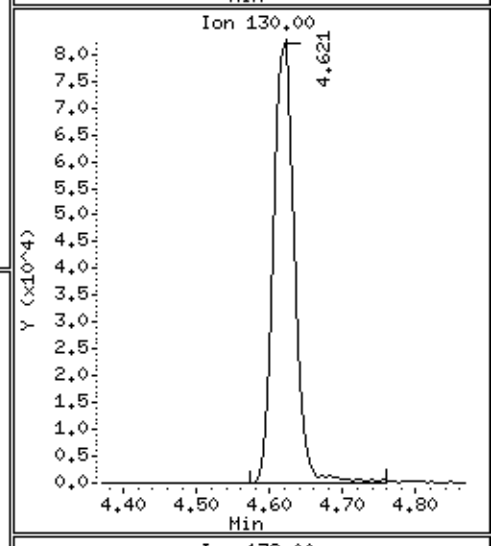


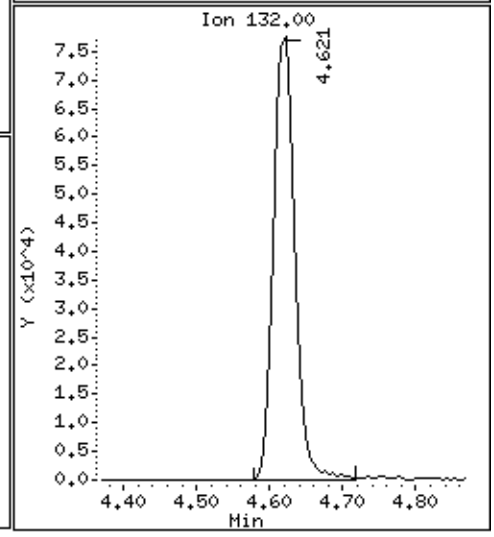












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g06.d

Date : 13-APR-2016 02:52

Client ID: FD-2(033016)-LM

Instrument: 50mv3a.i

Sample Info: 50141666027x50

Purge Volume: 5.0

Operator: jlz

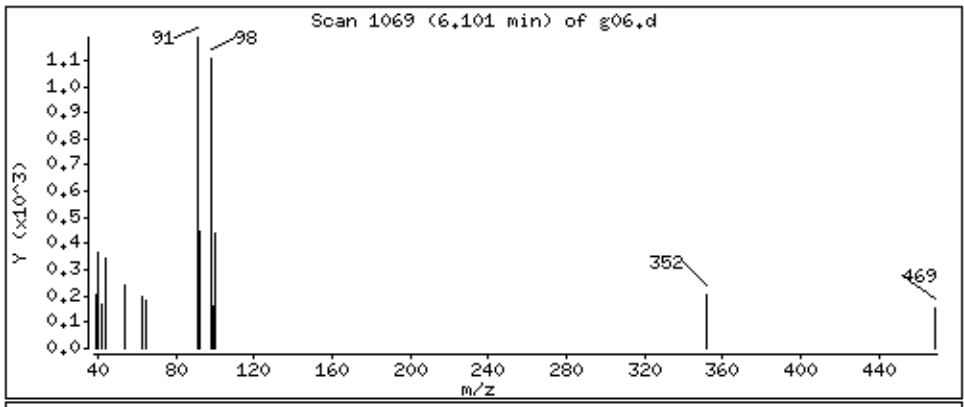
Column phase: DB-624

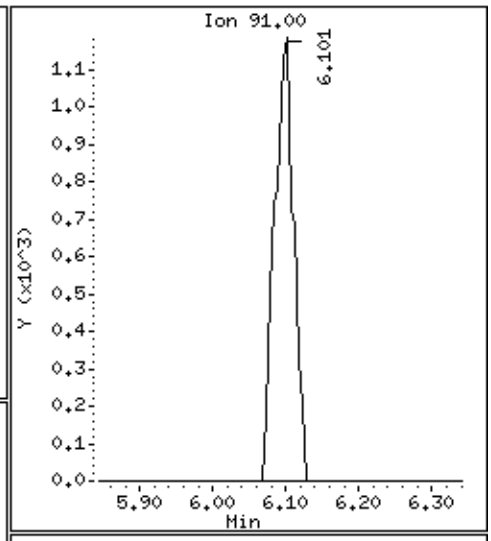
Column diameter: 0.18

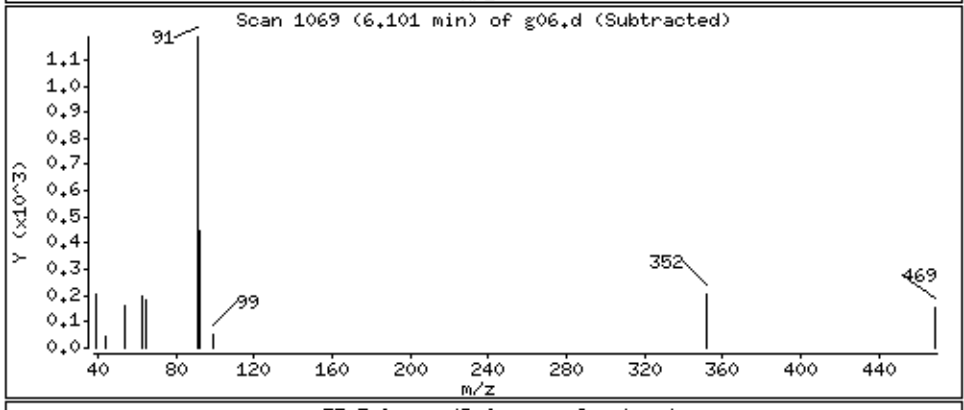
57 Toluene

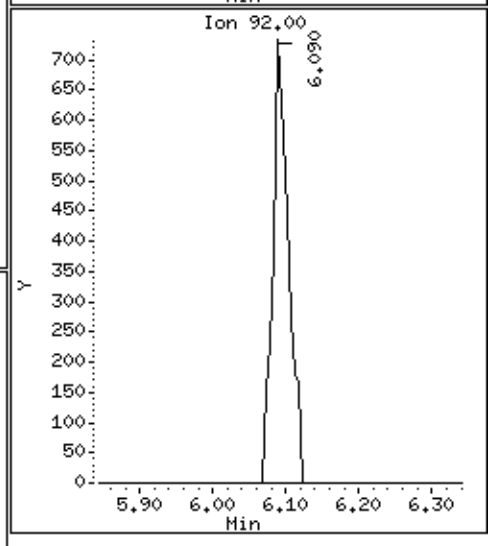
Concentration: 14.3 ppb

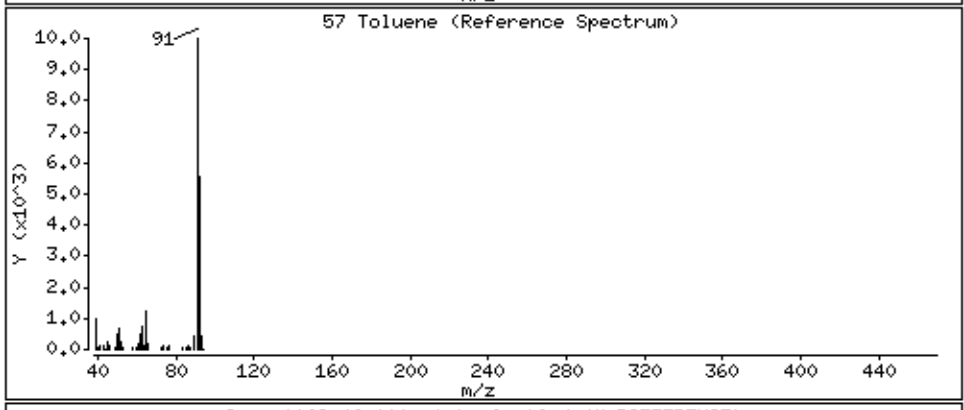
Review Code:

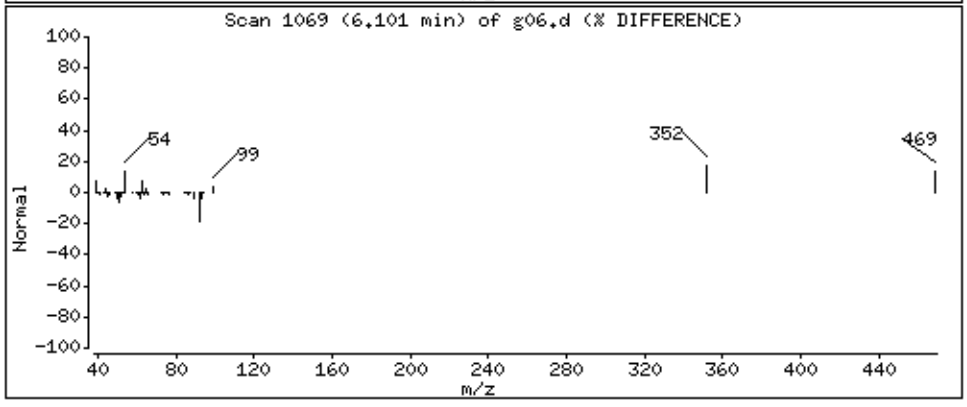












Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b/g06.d
Injection Date: 13-APR-2016 02:52
Instrument: 50mv3a.i
Lab Sample ID: 50141666027
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

FD-2(033016)-LM

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:34 Lab Sample ID: 50141666027

Date Analyzed: 04/12/2016 04:34 Lab File ID: B041116.B\D11.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	5.9	
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

FD-2(033016)-LM

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 04:34 Lab Sample ID: 50141666027

Date Analyzed: 04/12/2016 04:34 Lab File ID: B041116.B\D11.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

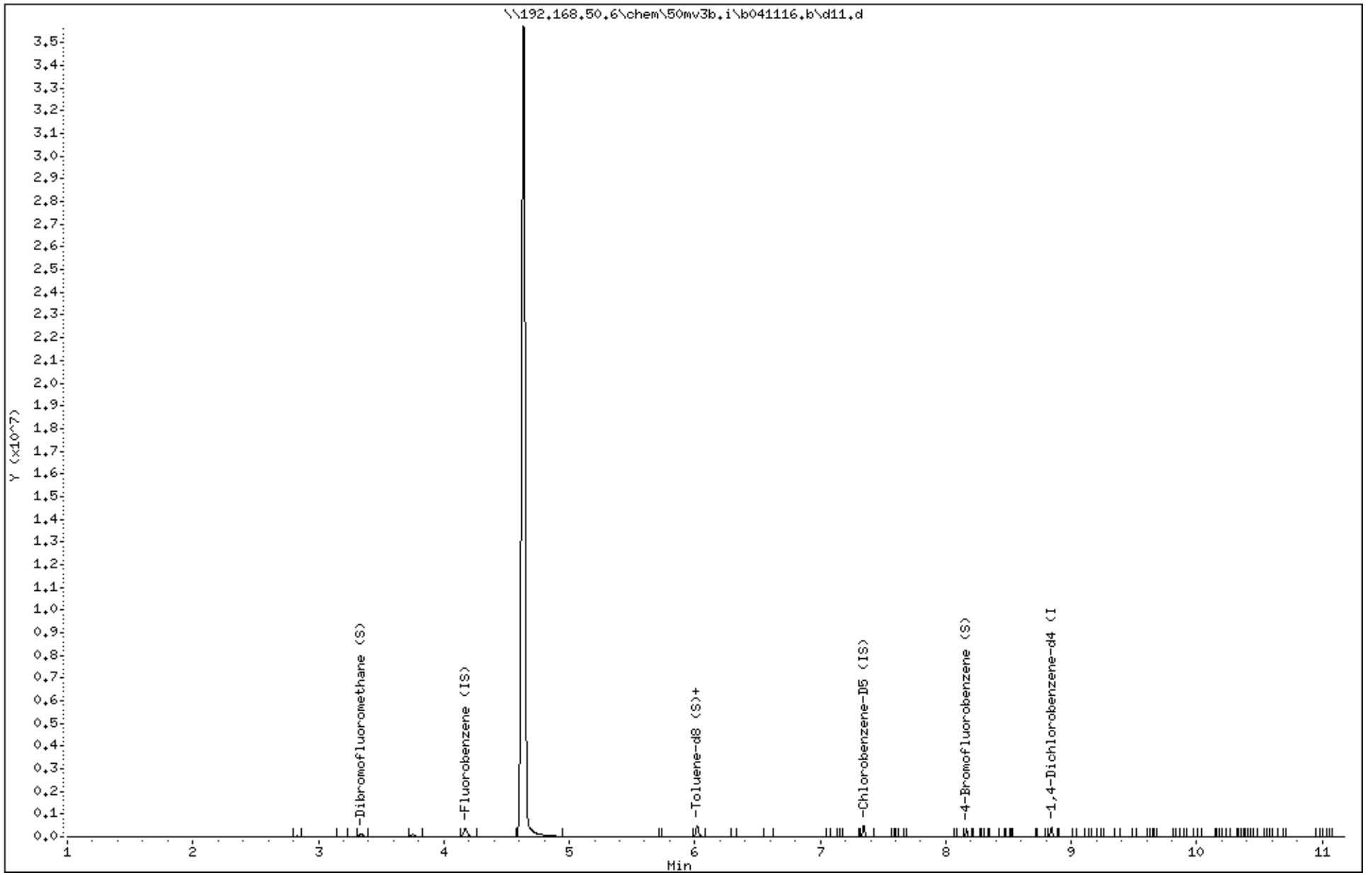
Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d
Lab Smp Id: 50141666027 Client Smp ID: FD-2(033016)-LM
Inj Date : 12-APR-2016 04:34
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666027
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.615	1.611	(0.387)	12308	25.4236	25.4	
	28 1,2-Dichloroethene (cis)	96	2.828	2.824	(0.678)	11229	5.88029	5.88	
	34 Chloroform	83	3.170	3.165	(0.759)	13924	4.48142	4.48	
$	35 Dibromofluoromethane (S)	113	3.340	3.342	(0.800)	82954	51.1915	51.2	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	353903	50.0000		
	45 Trichloroethene	95	4.633	4.624	(1.110)	11740482	6639.71	6640	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	288934	50.6446	50.6	
	56 Toluene	91	6.102	6.092	(0.831)	2437	0.32797	0.328	
*	65 Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	176554	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.163	8.165	(1.111)	65744	42.3866	42.4	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	63504	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d
Date : 12-APR-2016 04:34
Client ID: FD-2(033016)-LM
Instrument: 50mv3b.i
Sample Info: 50141666027
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d

Date : 12-APR-2016 04:34

Client ID: FD-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666027

Purge Volume: 5.0

Operator: jlz

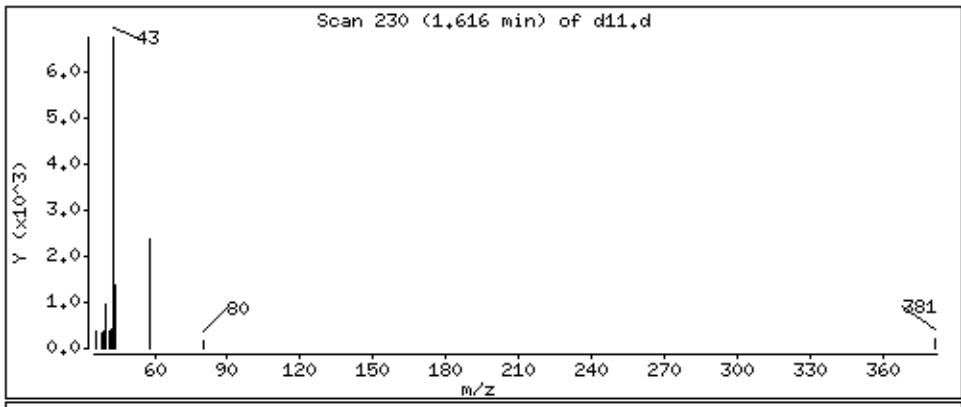
Column phase: DB-624

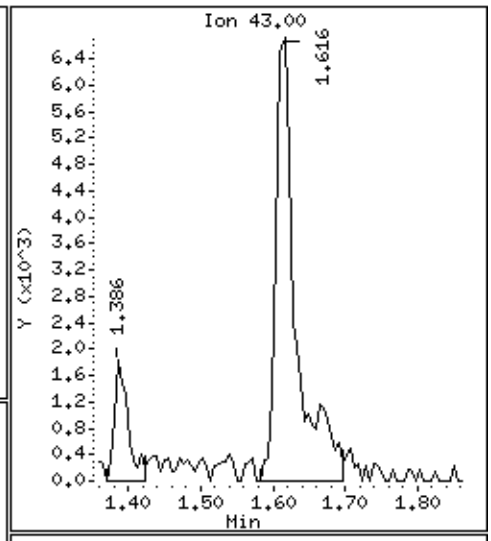
Column diameter: 0.18

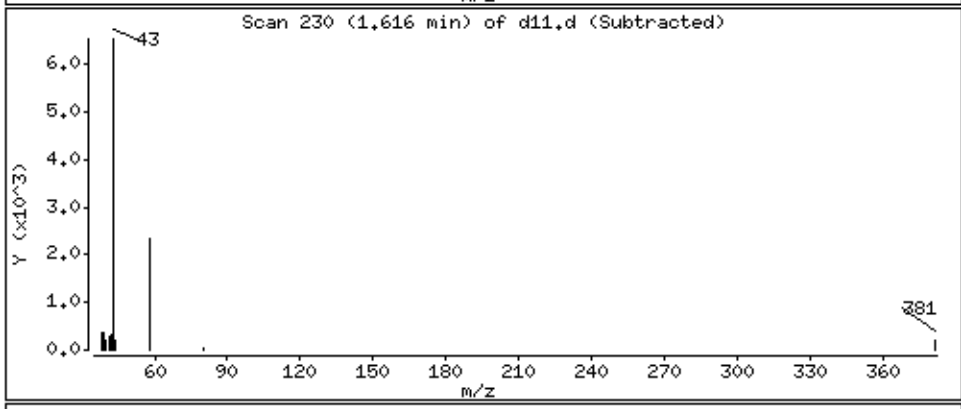
12 Acetone

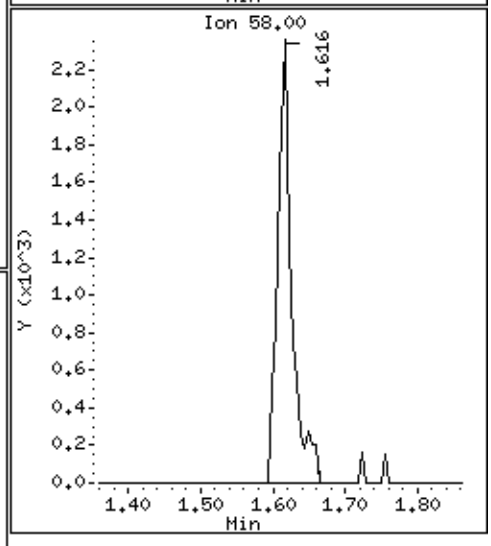
Concentration: 25.4 ppb

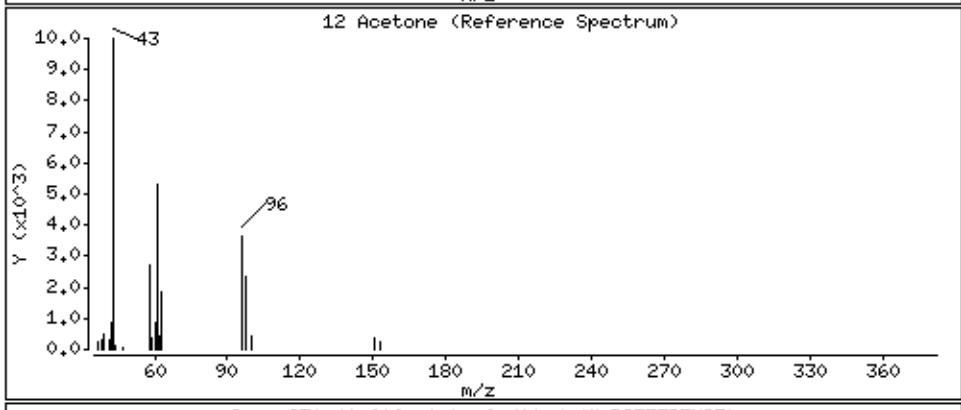
Review Code:

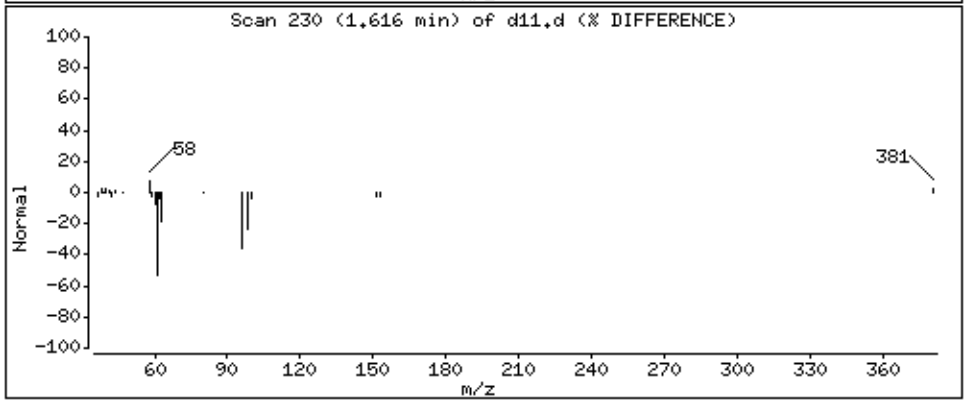












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d

Date : 12-APR-2016 04:34

Client ID: FD-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666027

Purge Volume: 5.0

Operator: jlz

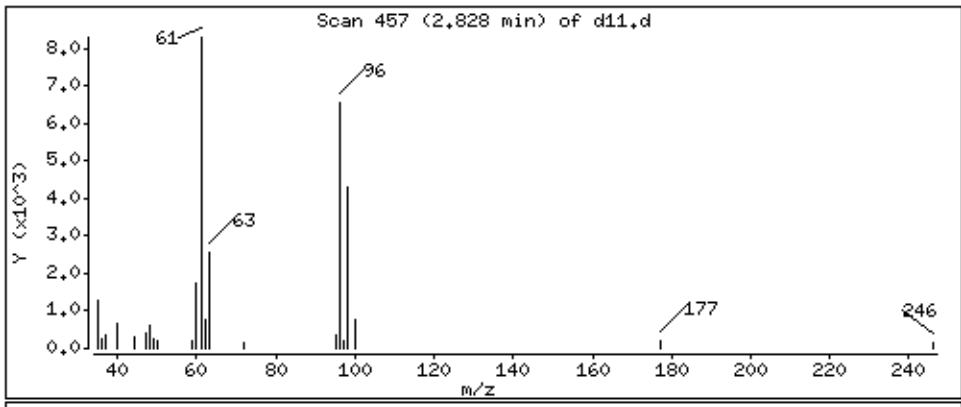
Column phase: DB-624

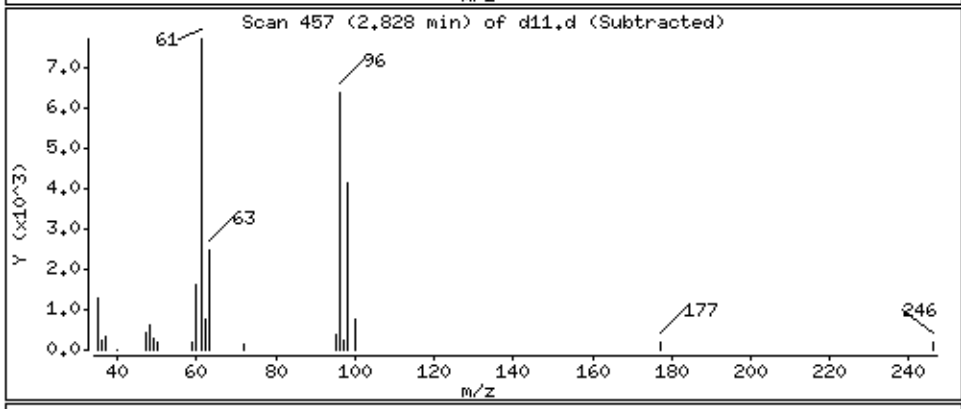
Column diameter: 0.18

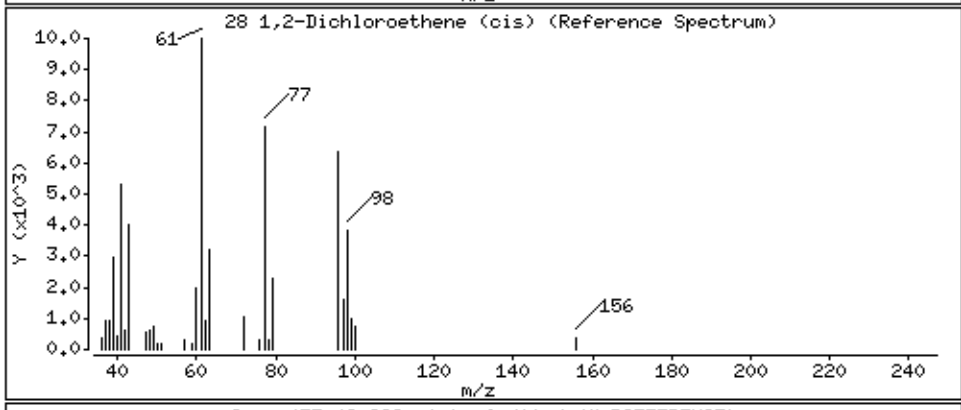
28 1,2-Dichloroethene (cis)

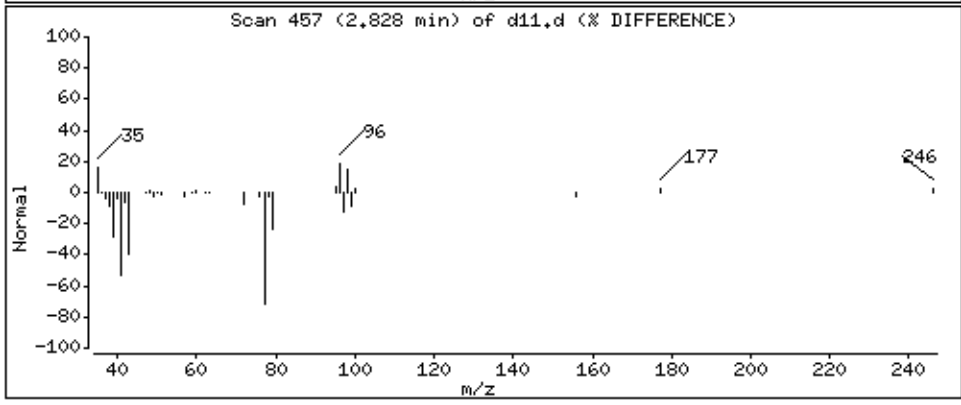
Concentration: 5.88 ppb

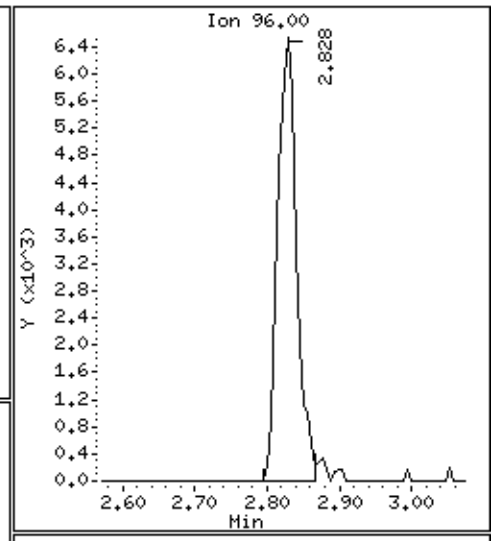
Review Code:

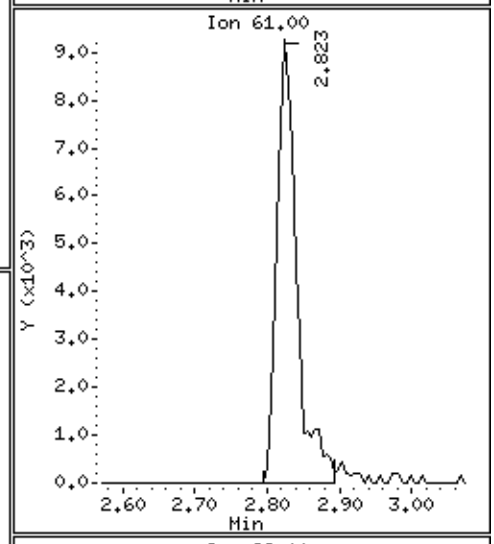


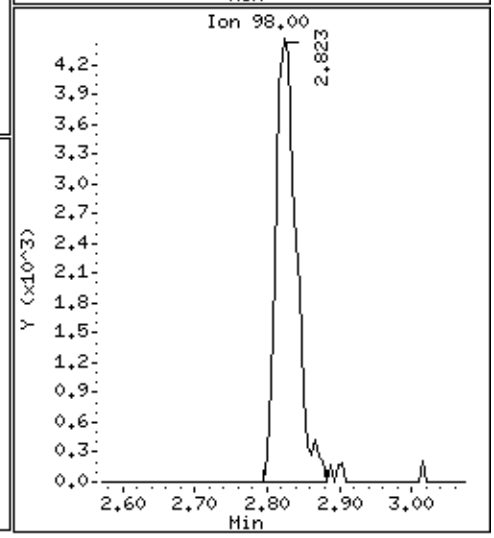












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d

Date : 12-APR-2016 04:34

Client ID: FD-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666027

Purge Volume: 5.0

Operator: jlz

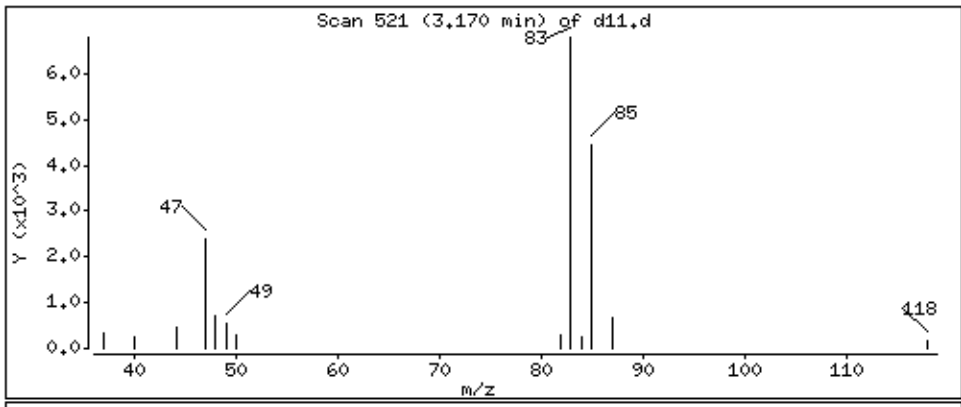
Column phase: DB-624

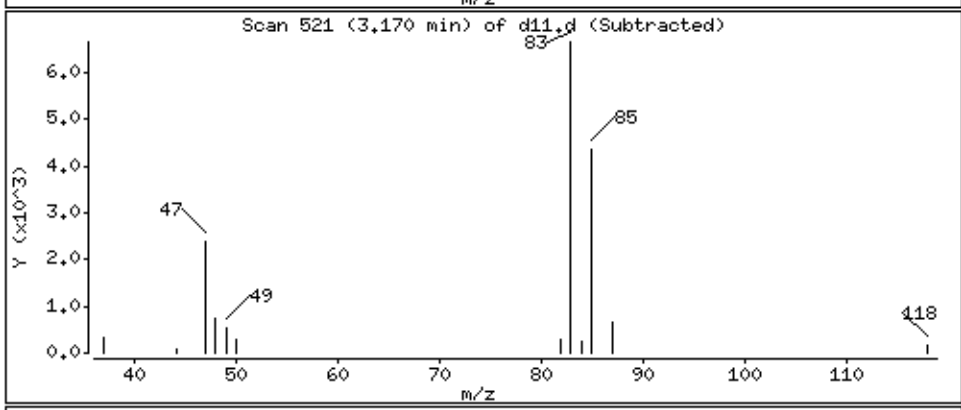
Column diameter: 0.18

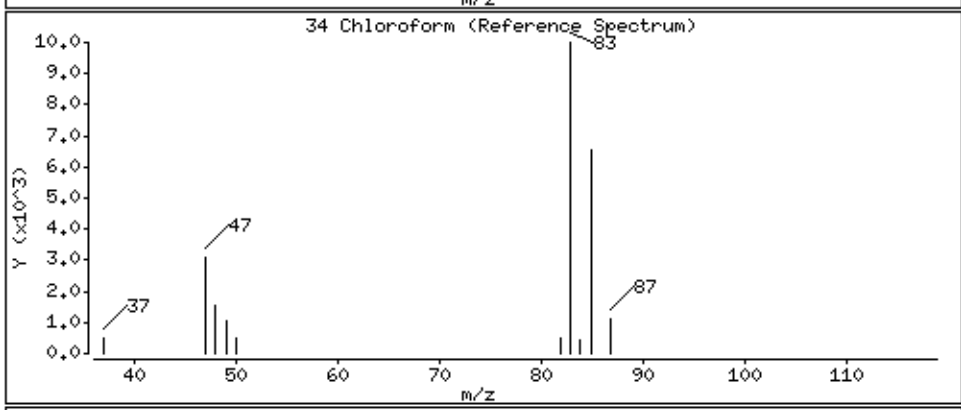
34 Chloroform

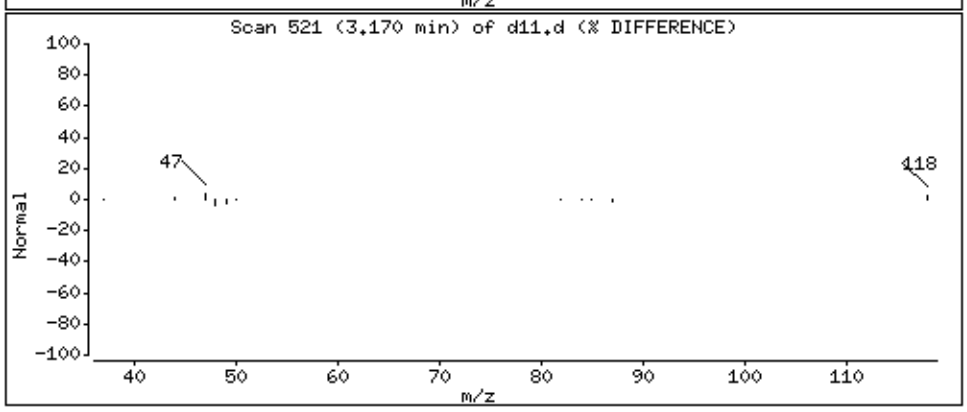
Concentration: 4.48 ppb

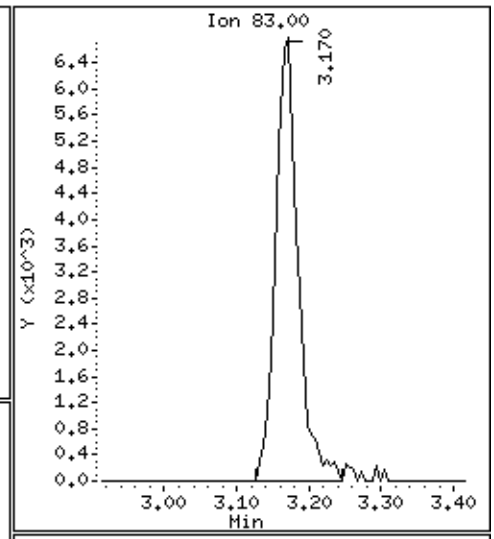
Review Code:

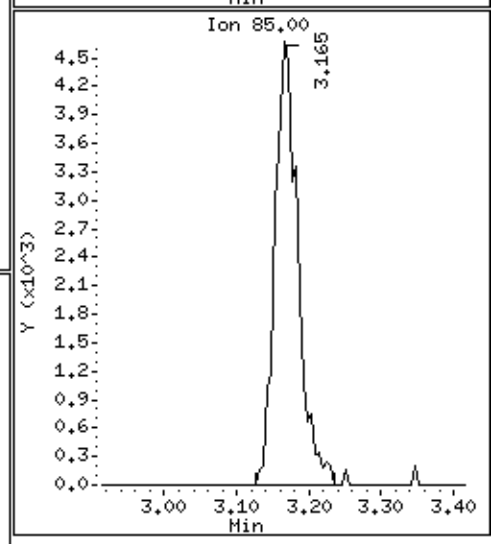












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d

Date : 12-APR-2016 04:34

Client ID: FD-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666027

Purge Volume: 5.0

Operator: jlz

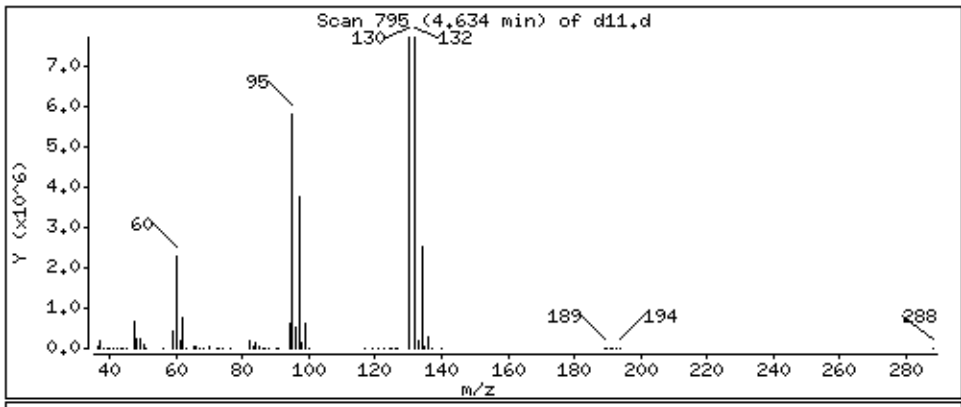
Column phase: DB-624

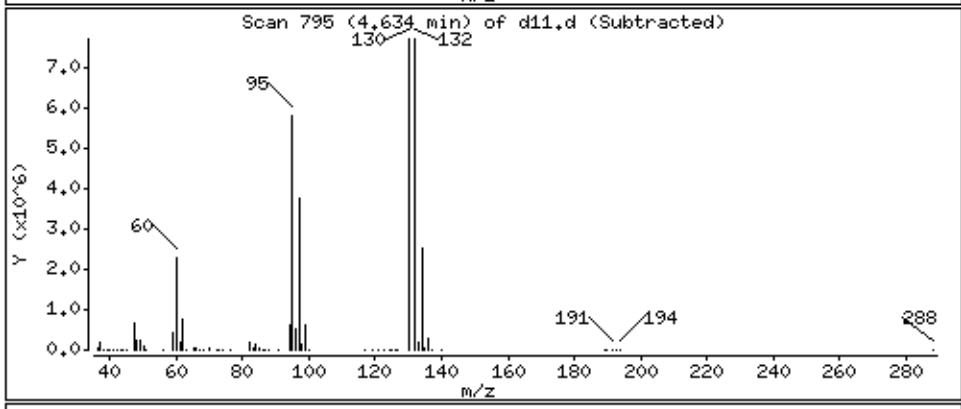
Column diameter: 0.18

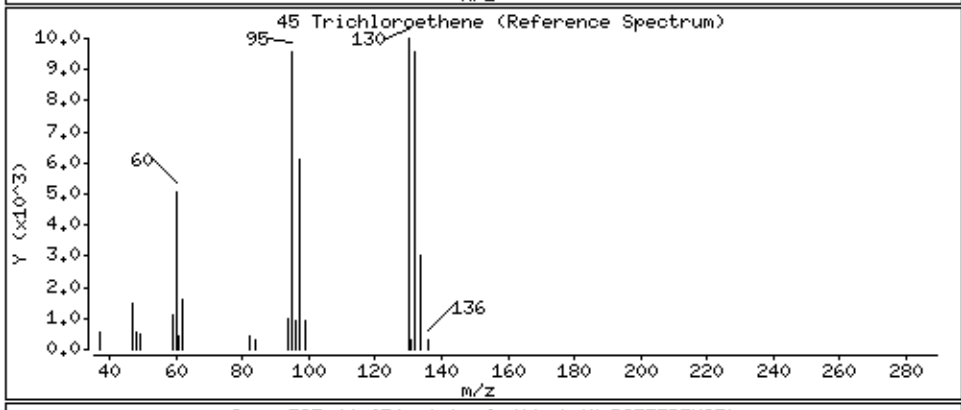
45 Trichloroethene

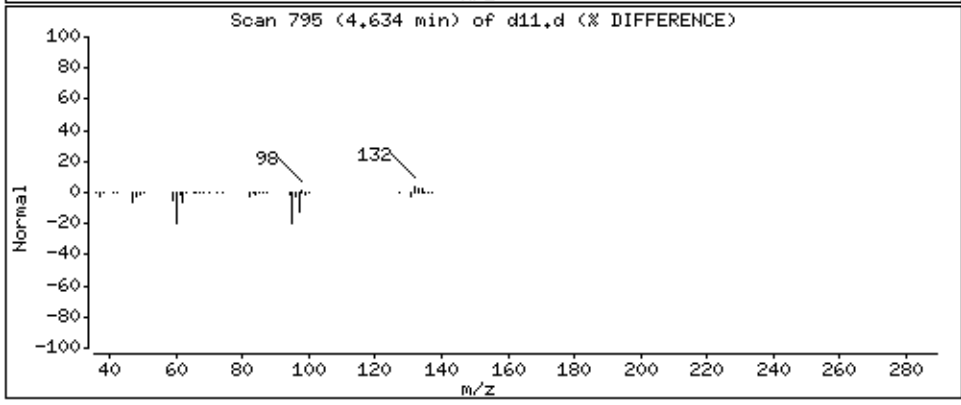
Concentration: 6640 ppb

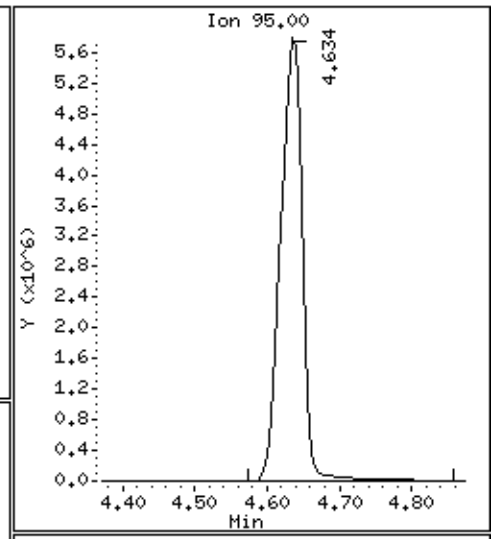
Review Code:

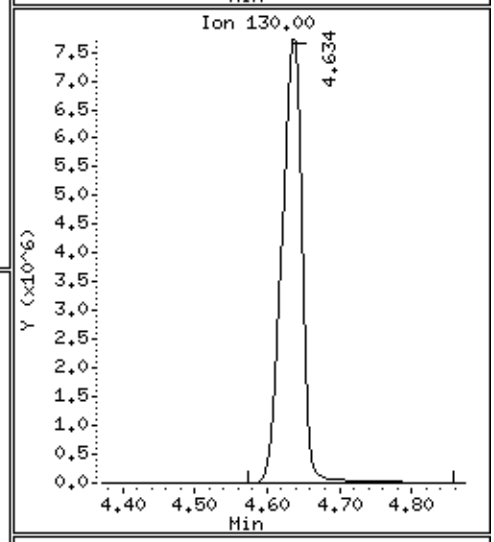


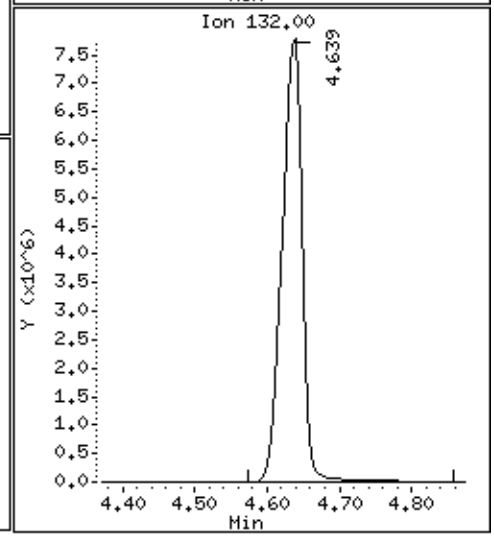












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d11.d

Date : 12-APR-2016 04:34

Client ID: FD-2(033016)-LM

Instrument: 50mv3b.i

Sample Info: 50141666027

Purge Volume: 5.0

Operator: jlz

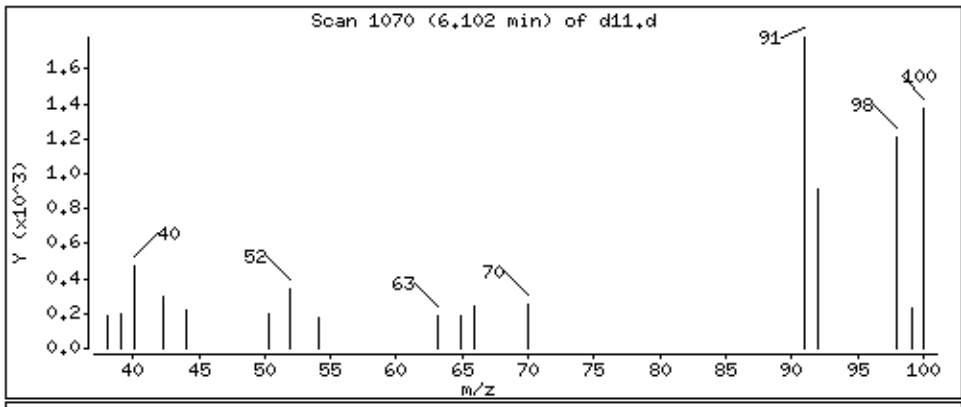
Column phase: DB-624

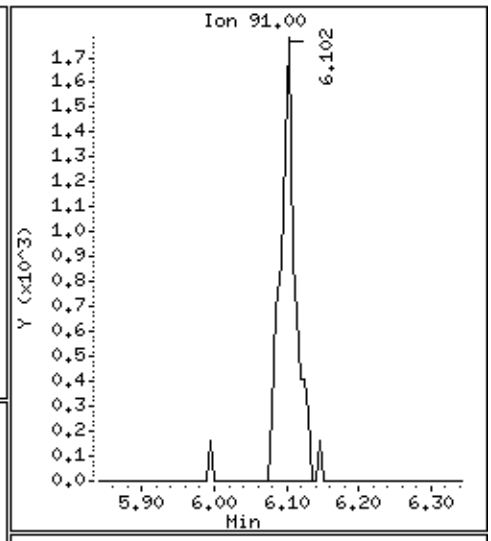
Column diameter: 0.18

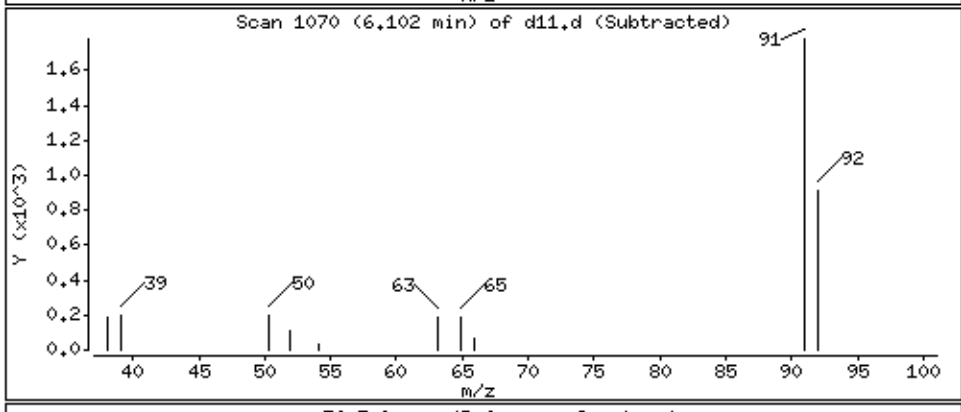
56 Toluene

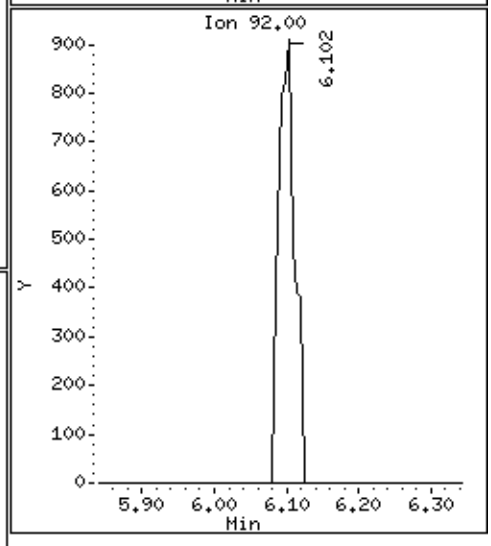
Concentration: 0.328 ppb

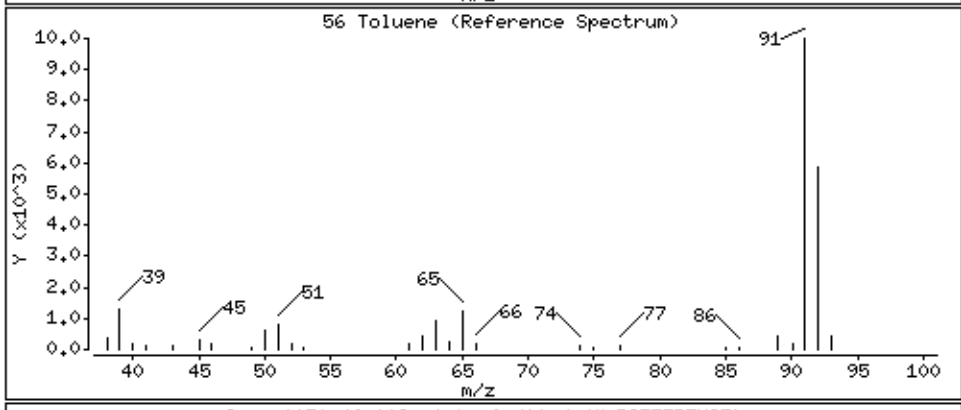
Review Code:

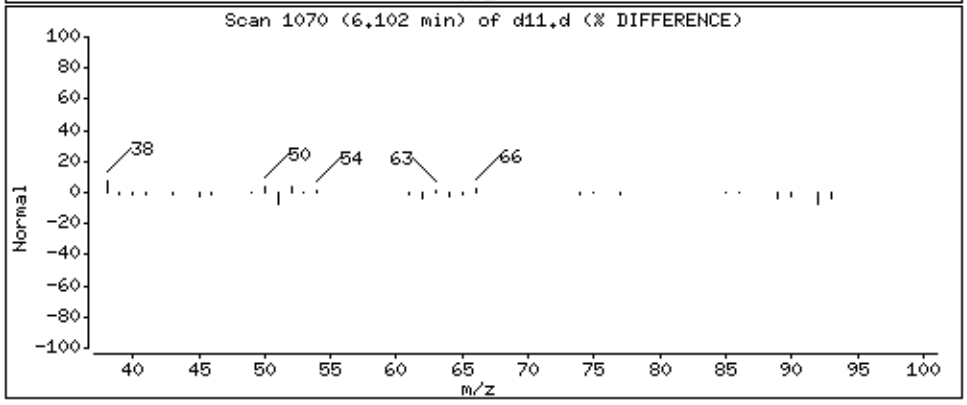












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d11.d
Injection Date: 12-APR-2016 04:34
Instrument: 50mv3b.i
Lab Sample ID: 50141666027
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0623-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:06 Lab Sample ID: 50141666028

Date Analyzed: 04/12/2016 05:06 Lab File ID: B041116.B\D12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0623-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:06 Lab Sample ID: 50141666028

Date Analyzed: 04/12/2016 05:06 Lab File ID: B041116.B\D12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d12.d
Lab Smp Id: 50141666028 Client Smp ID: MW-0623-S1(033016)P
Inj Date : 12-APR-2016 05:06
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666028
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 72
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

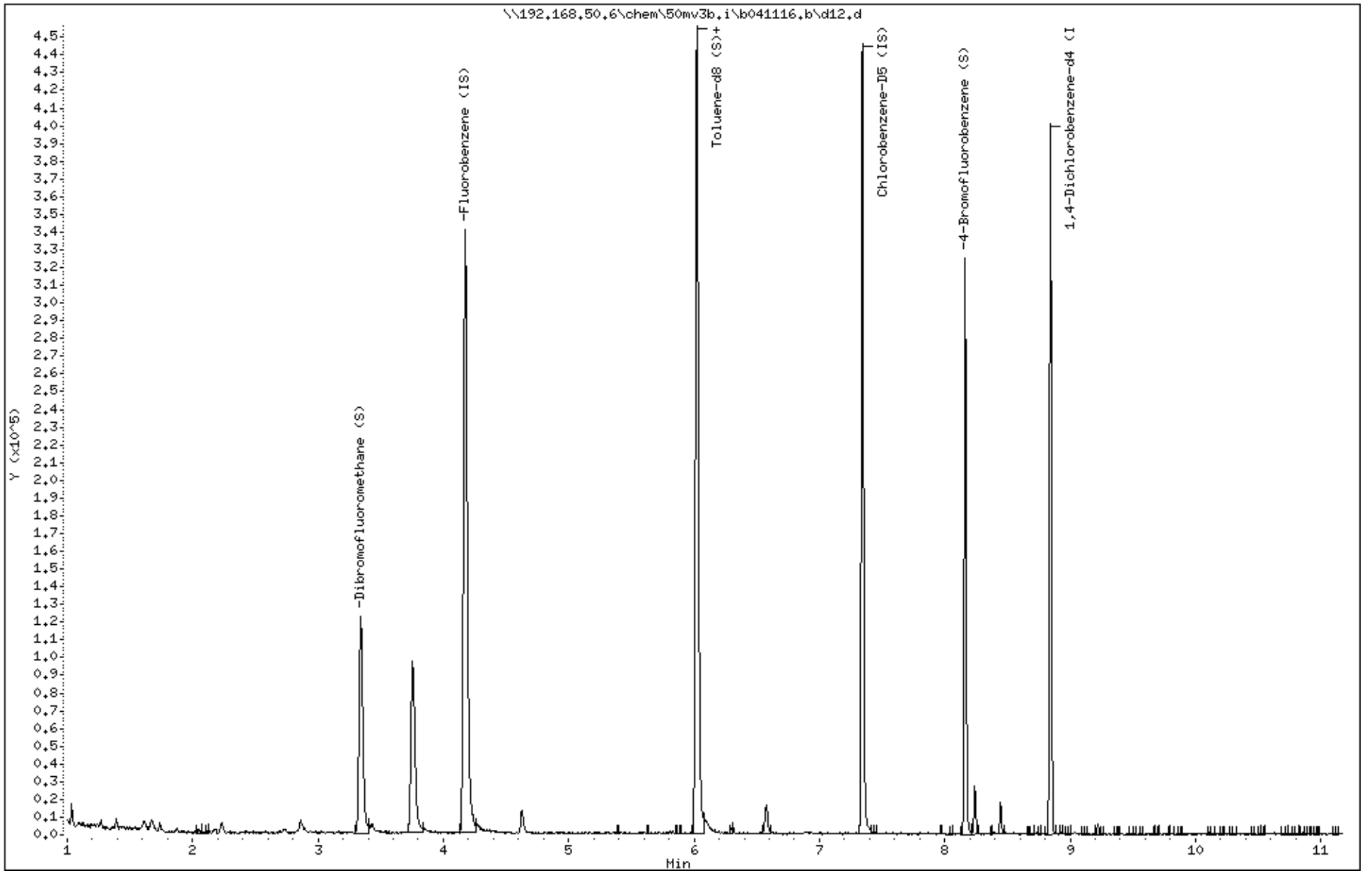
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	12 Acetone	43	1.610	1.611	(0.386)	4578	9.91510	9.92	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	81158	52.5126	52.5	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	337530	50.0000		
	45 Trichloroethene	95	4.628	4.624	(1.109)	3576	2.12047	2.12	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	273466	51.1776	51.2	
	56 Toluene	91	6.102	6.092	(0.831)	1785	0.25648	0.256	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	165362	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	63097	43.4333	43.4	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	62779	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d12.d
Date : 12-APR-2016 05:06
Client ID: MW-0623-S1(033016)P
Sample Info: 50141666028
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d12.d

Date : 12-APR-2016 05:06

Client ID: MW-0623-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666028

Purge Volume: 5.0

Operator: jlz

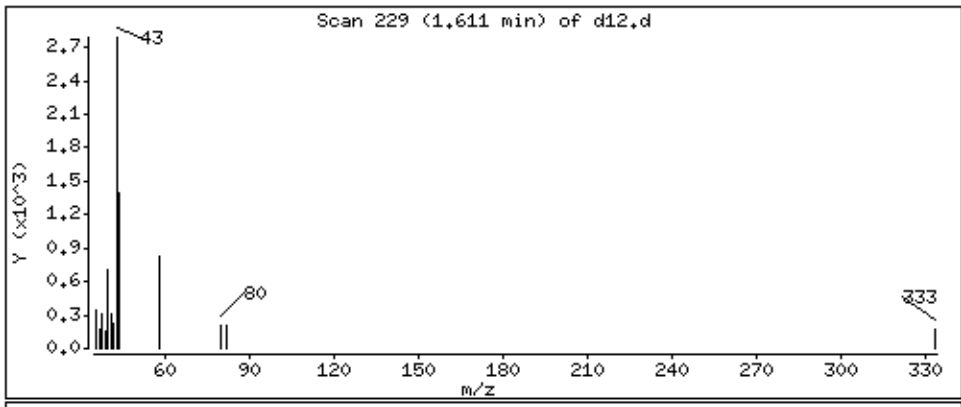
Column phase: DB-624

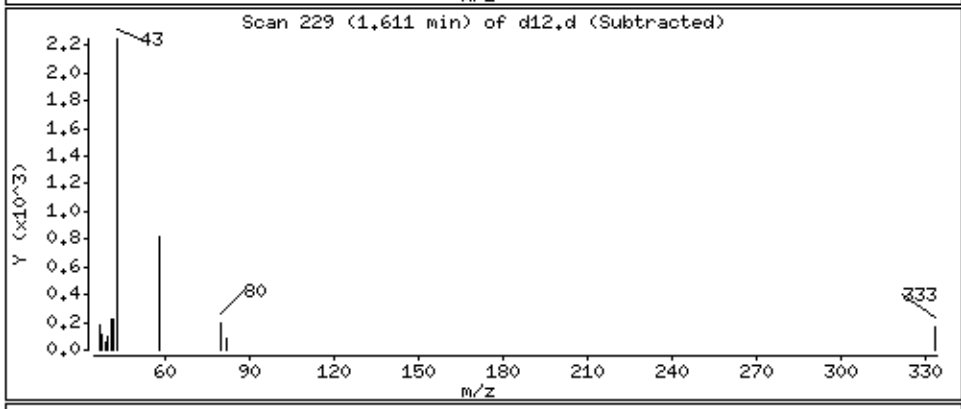
Column diameter: 0.18

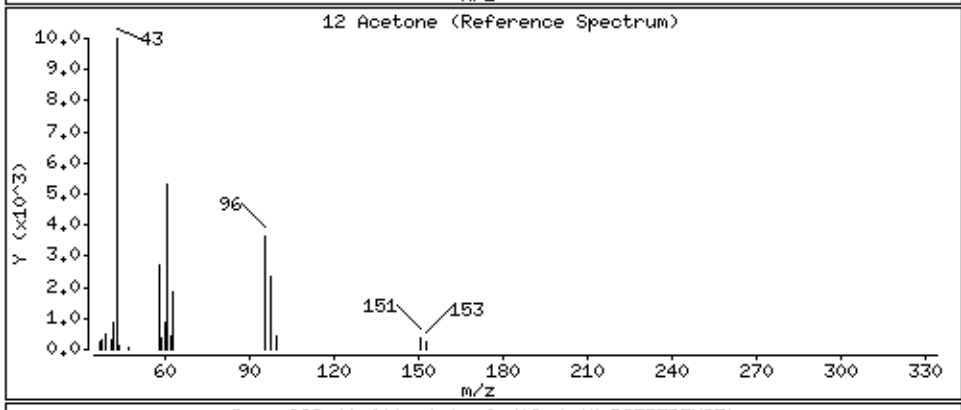
12 Acetone

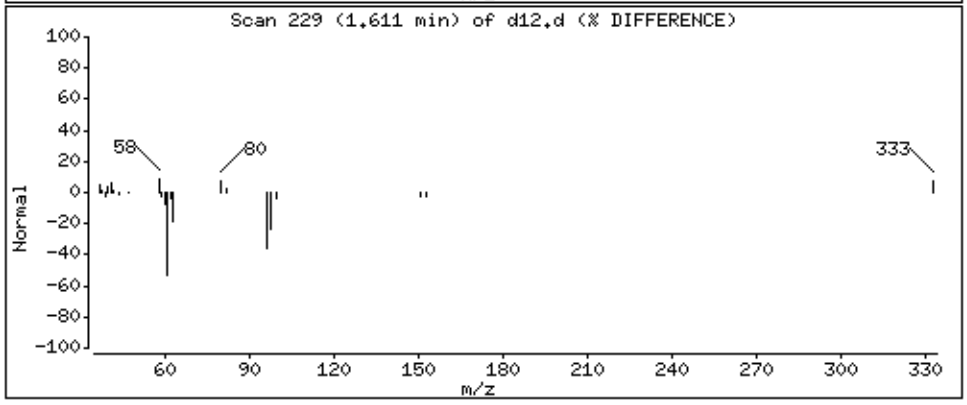
Concentration: 9.92 ppb

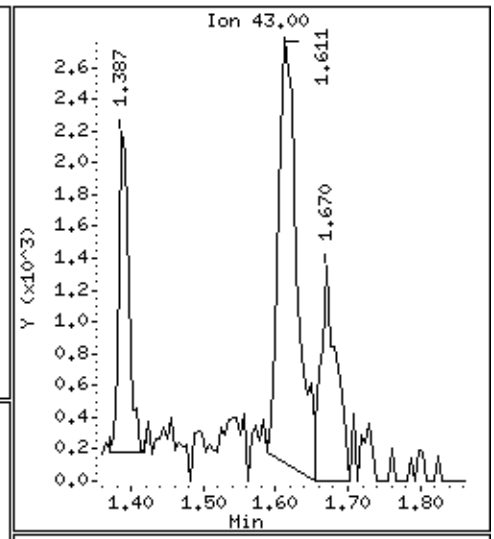
Review Code:

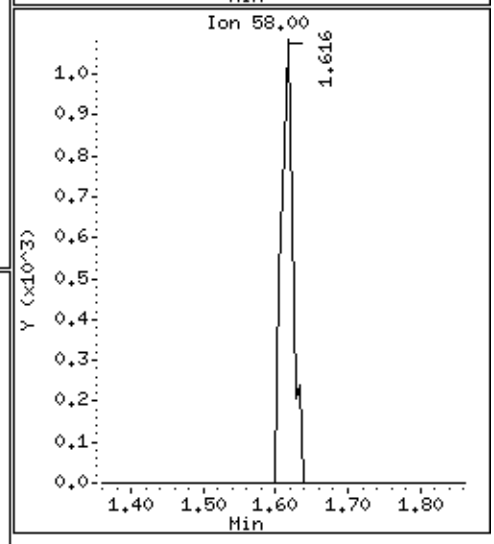












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d12.d

Date : 12-APR-2016 05:06

Client ID: MW-0623-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666028

Purge Volume: 5.0

Operator: jlz

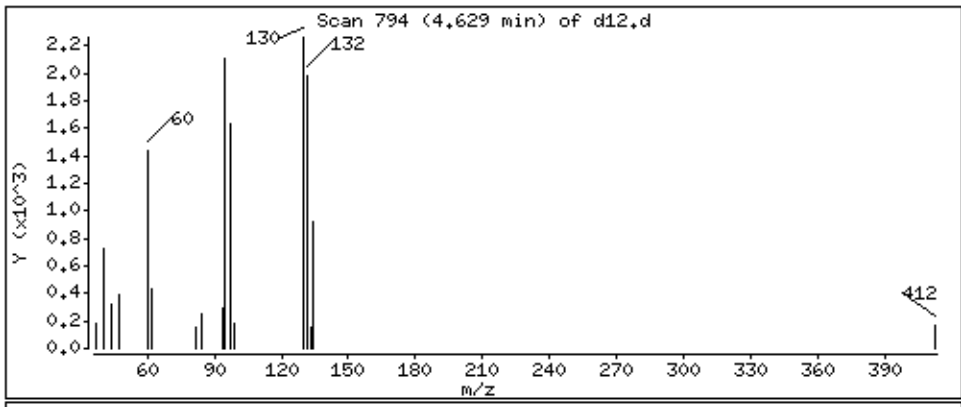
Column phase: DB-624

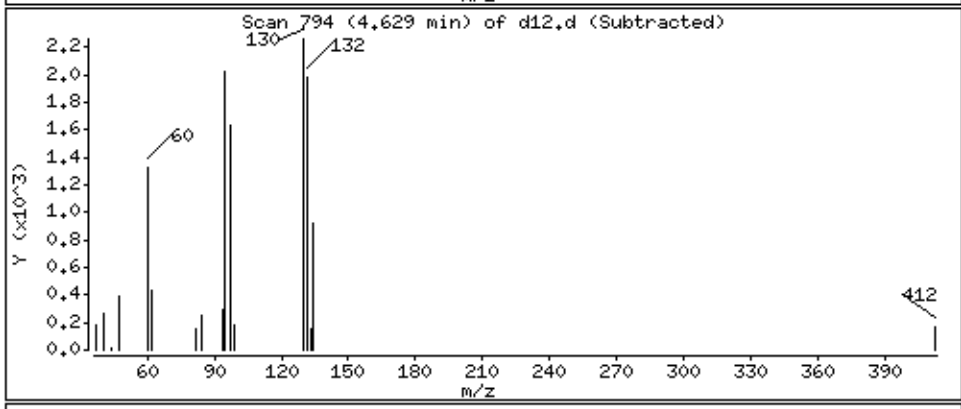
Column diameter: 0.18

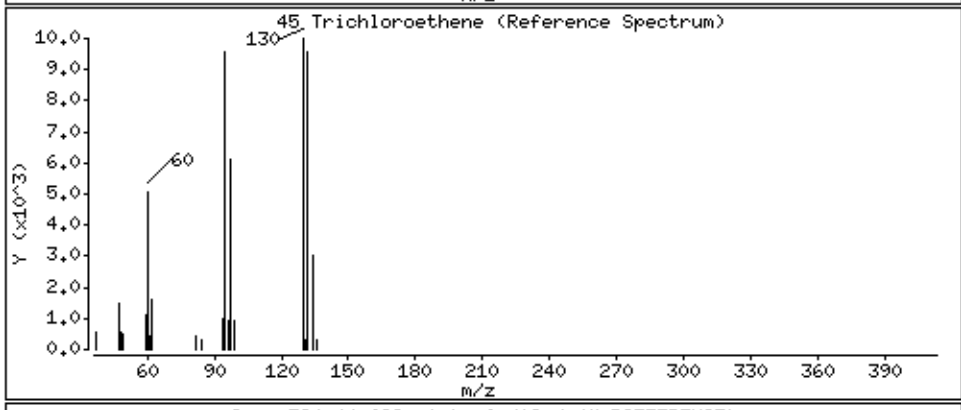
45 Trichloroethene

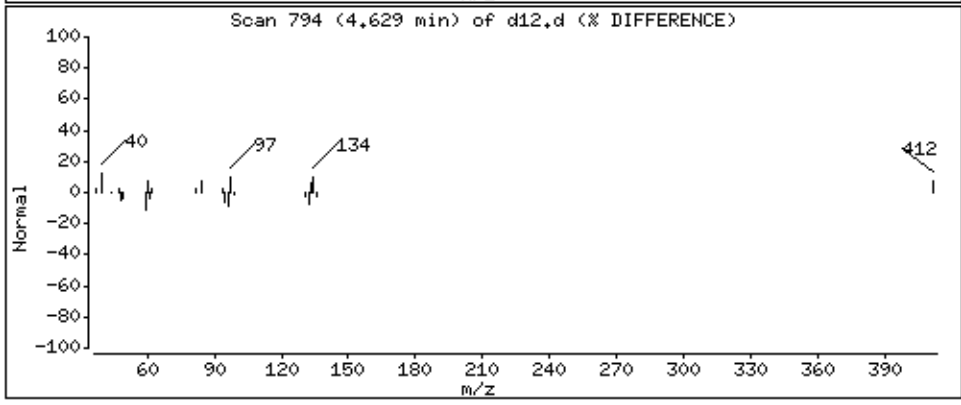
Concentration: 2.12 ppb

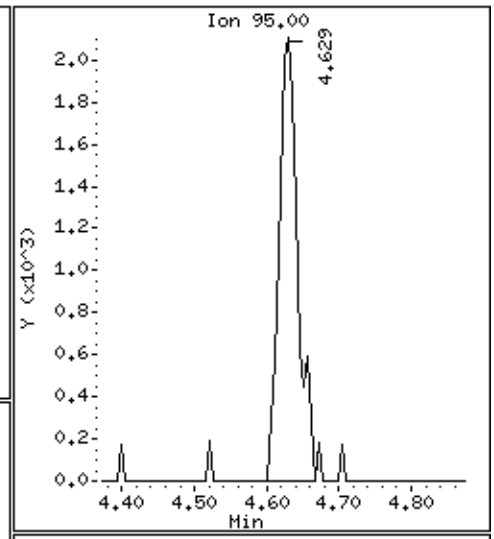
Review Code:

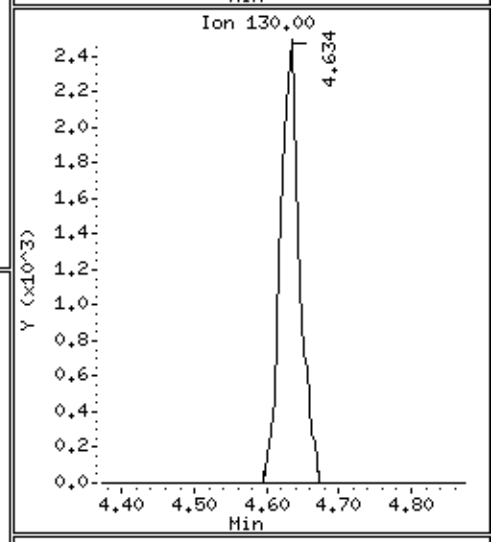


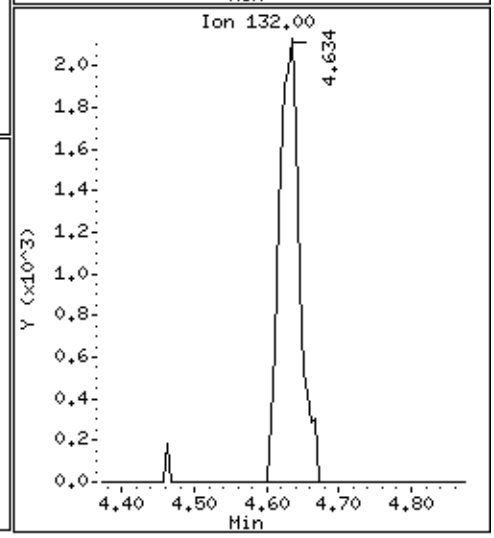












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d12.d

Date : 12-APR-2016 05:06

Client ID: MW-0623-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666028

Purge Volume: 5.0

Operator: jlz

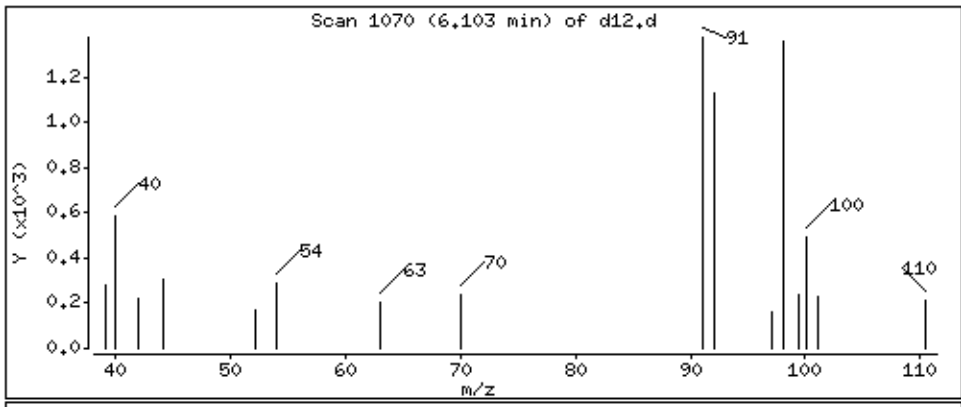
Column phase: DB-624

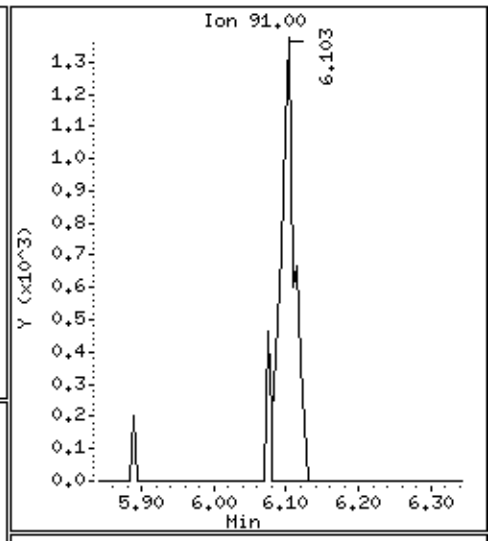
Column diameter: 0.18

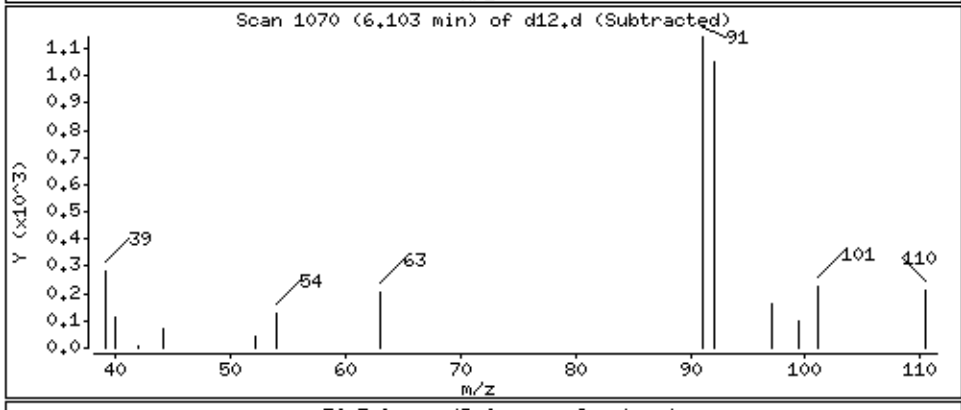
56 Toluene

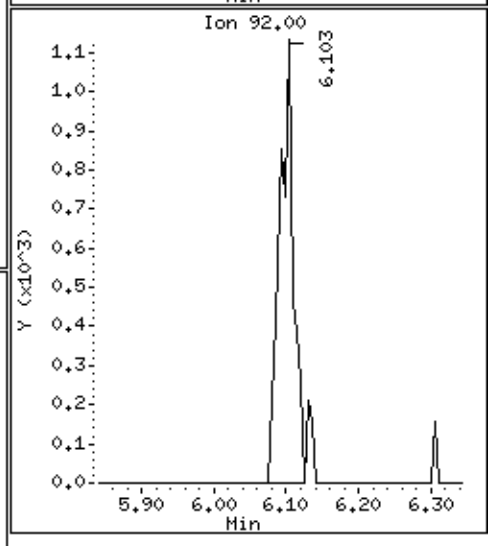
Concentration: 0.256 ppb

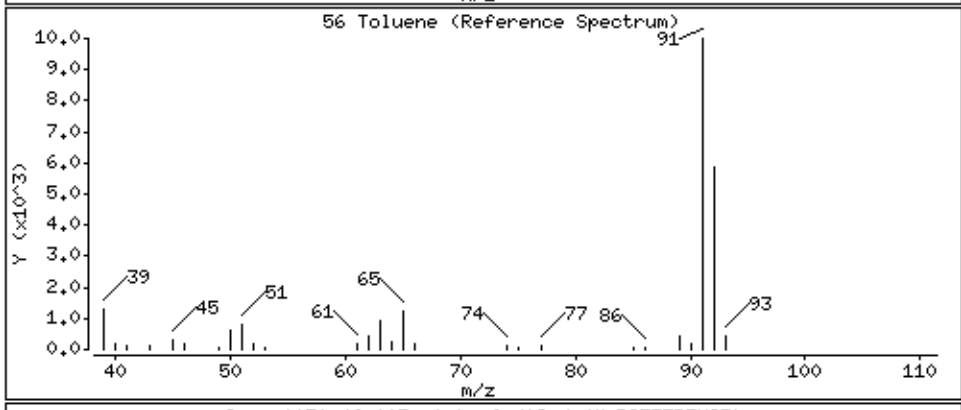
Review Code:

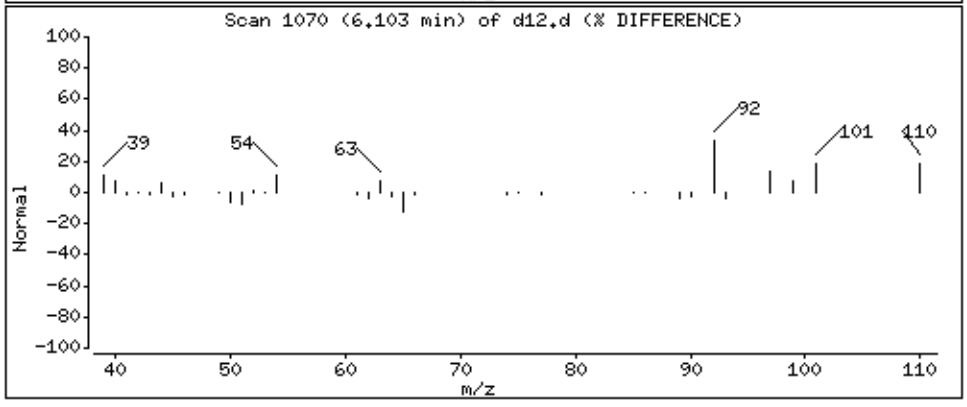












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d12.d
Injection Date: 12-APR-2016 05:06
Instrument: 50mv3b.i
Lab Sample ID: 50141666028
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MW-0705-S1(033016)PDB

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:38 Lab Sample ID: 50141666029

Date Analyzed: 04/12/2016 05:38 Lab File ID: B041116.B\D13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	46.5	
156-60-5	trans-1,2-Dichloroethene	11.6	
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0705-S1(033016)PDB

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 05:38 Lab Sample ID: 50141666029

Date Analyzed: 04/12/2016 05:38 Lab File ID: B041116.B\D13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	135	
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	3.4	
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

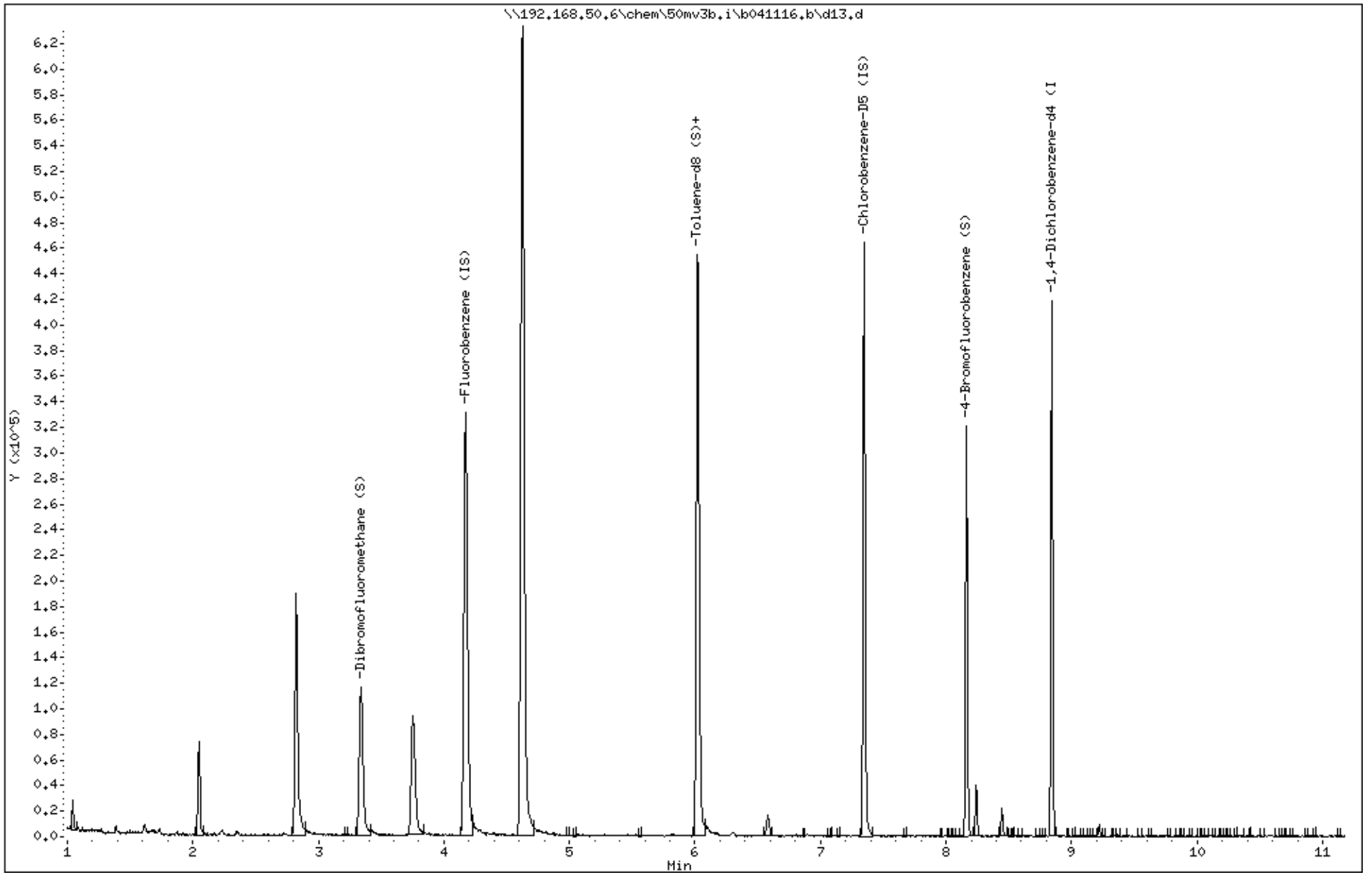
Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d
Lab Smp Id: 50141666029 Client Smp ID: MW-0705-S1(033016)P
Inj Date : 12-APR-2016 05:38
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 50141666029
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 74
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.041	1.045	(0.250)	10642	3.39326	3.39	
	12 Acetone	43	1.613	1.611	(0.387)	5202	11.8287	11.8	
	22 1,2-Dichloroethene (trans)	96	2.045	2.044	(0.490)	20277	11.5889	11.6	
	28 1,2-Dichloroethene (cis)	96	2.825	2.824	(0.677)	80723	46.5343	46.5	
$	35 Dibromofluoromethane (S)	113	3.338	3.342	(0.800)	78978	53.6519	53.6	
*	44 Fluorobenzene (IS)	96	4.171	4.175	(1.000)	321489	50.0000		
	45 Trichloroethene	95	4.625	4.624	(1.109)	217435	135.366	135	
$	55 Toluene-d8 (S)	98	6.019	6.023	(0.820)	271401	50.4331	50.4	
	56 Toluene	91	6.104	6.092	(0.831)	1892	0.26994	0.270	
*	65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	166536	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.166	8.165	(1.112)	62182	42.5017	42.5	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.843	(1.000)	60414	50.0000		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d
Date : 12-APR-2016 05:38
Client ID: MW-0705-S1(033016)P
Instrument: 50mv3b.i
Sample Info: 50141666029
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

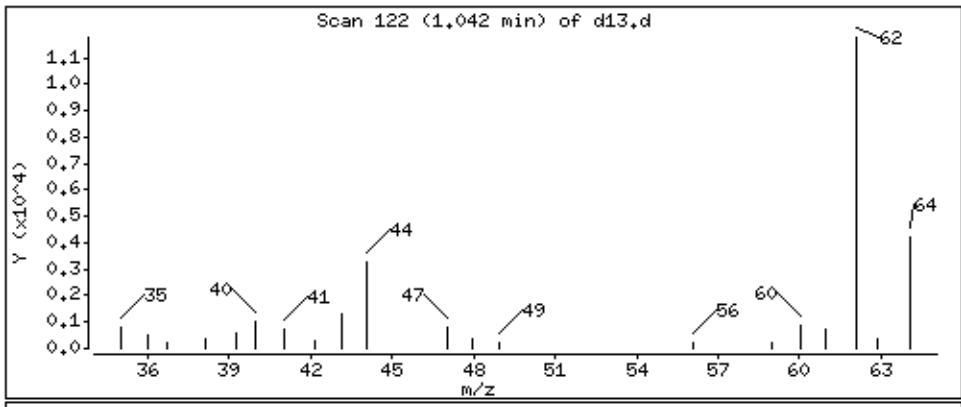
Column phase: DB-624

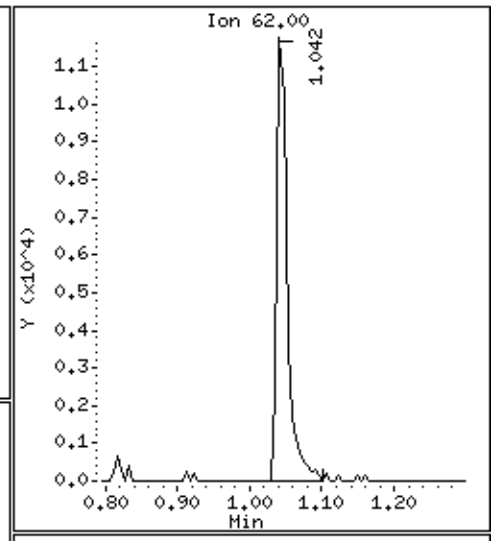
Column diameter: 0.18

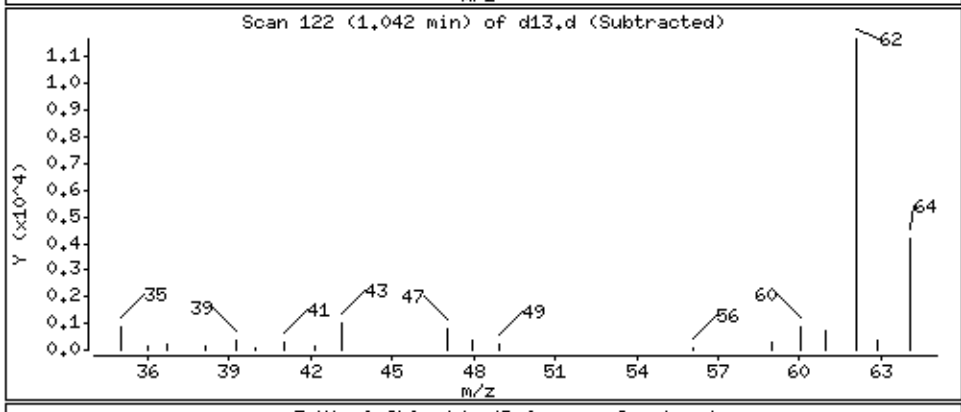
3 Vinyl Chloride

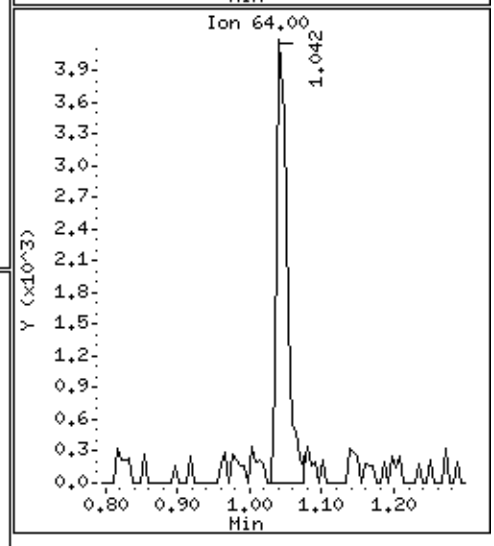
Concentration: 3.39 ppb

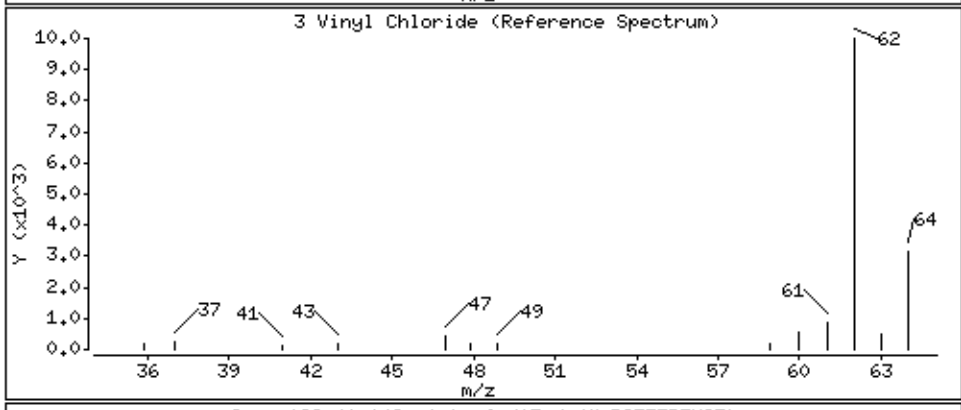
Review Code:

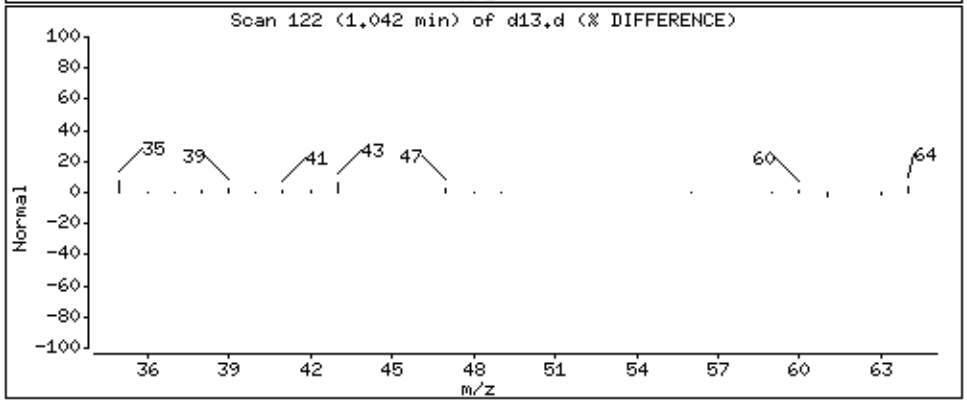












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

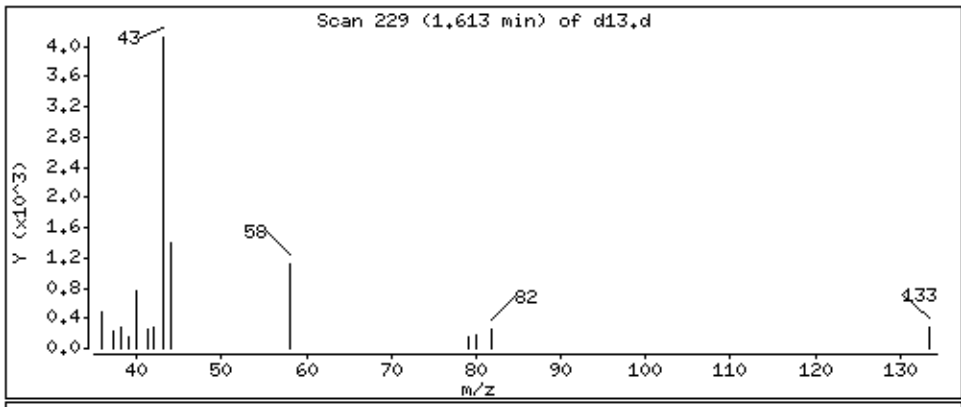
Column phase: DB-624

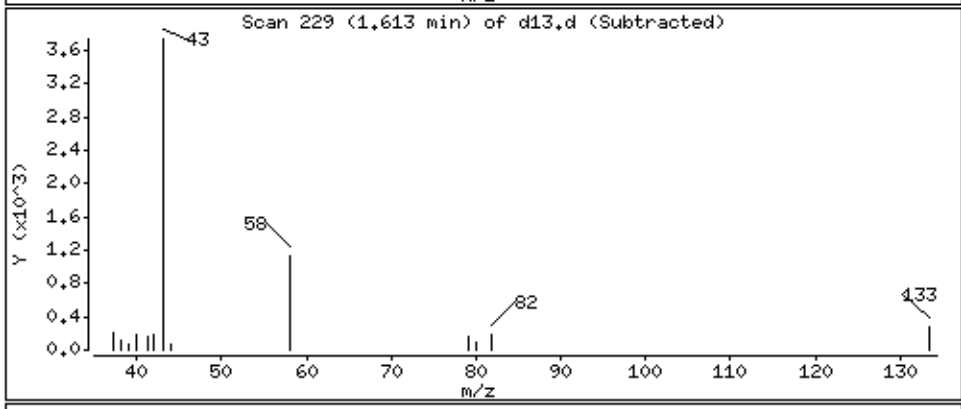
Column diameter: 0.18

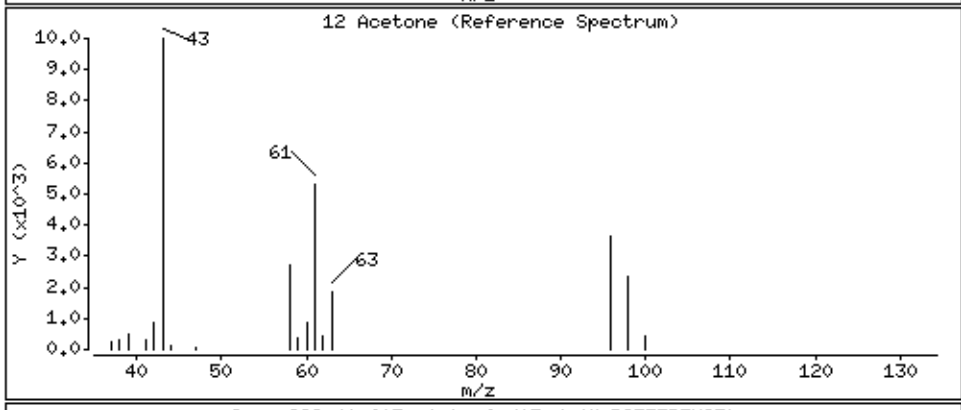
12 Acetone

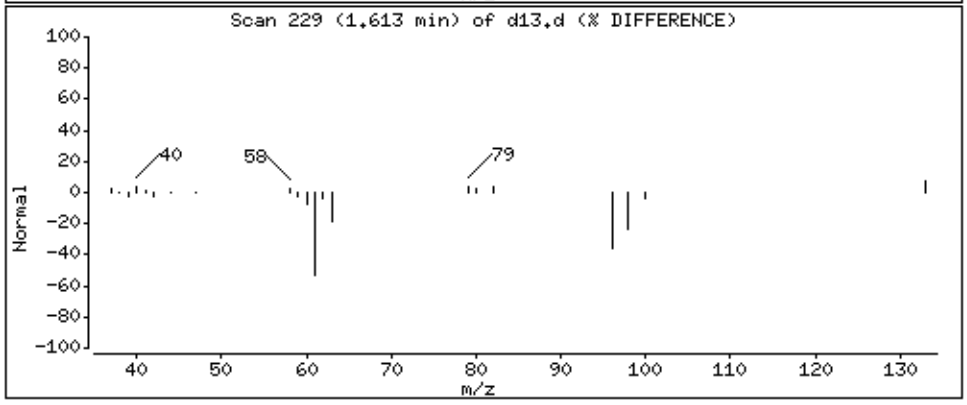
Concentration: 11.8 ppb

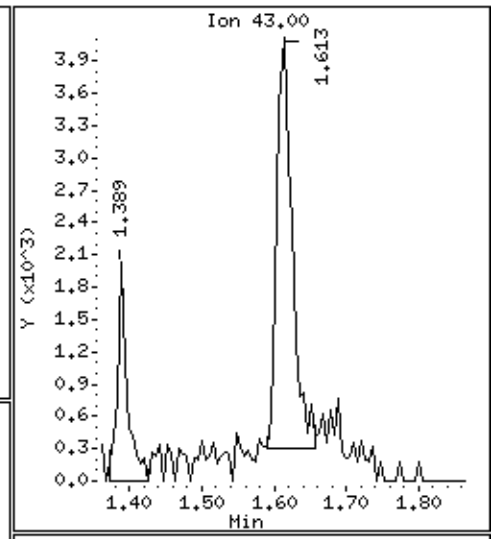
Review Code:

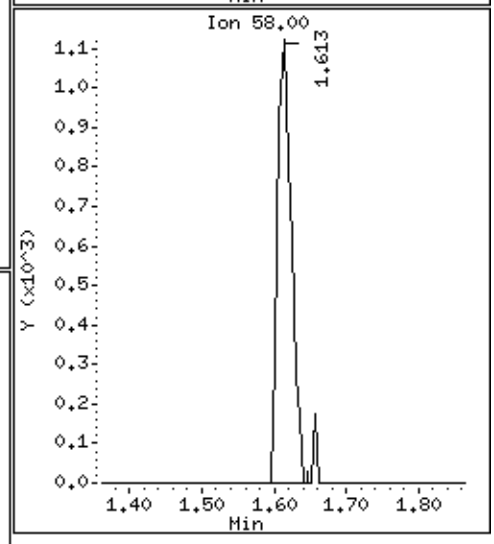












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

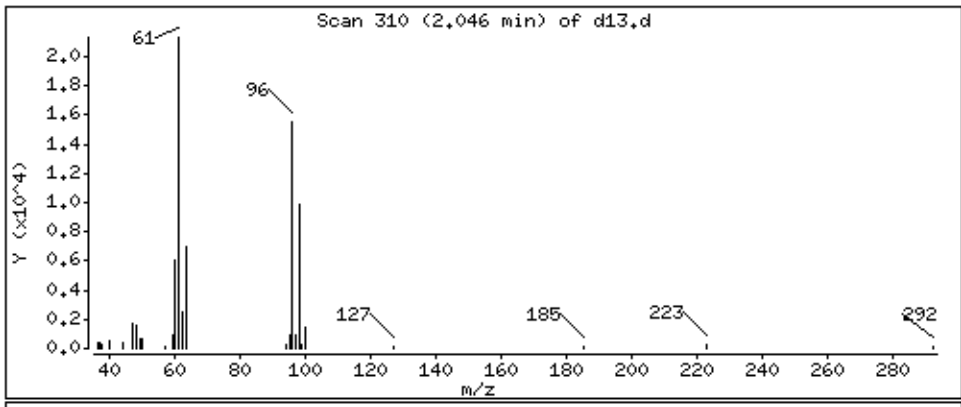
Column phase: DB-624

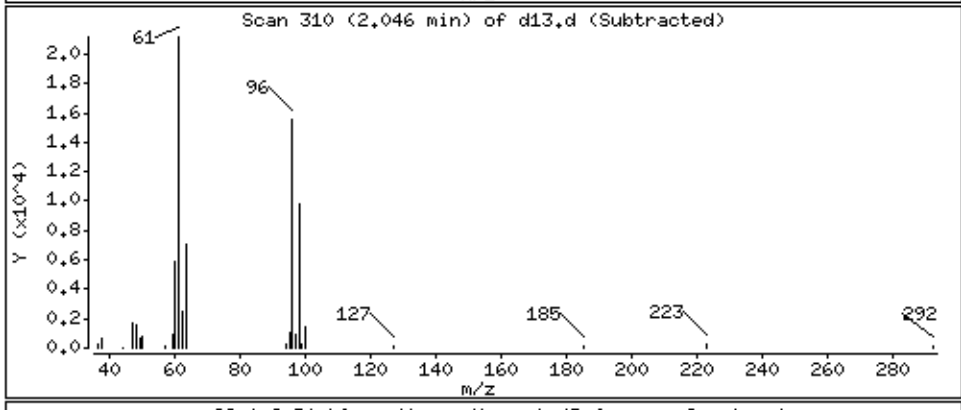
Column diameter: 0.18

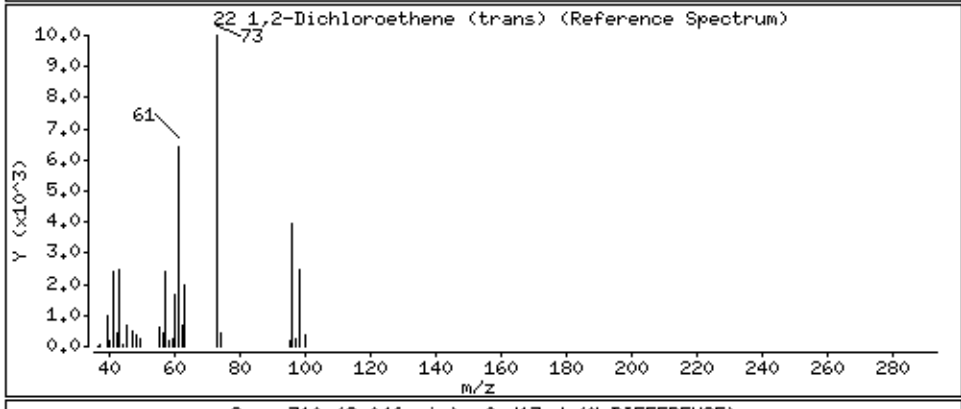
22 1,2-Dichloroethene (trans)

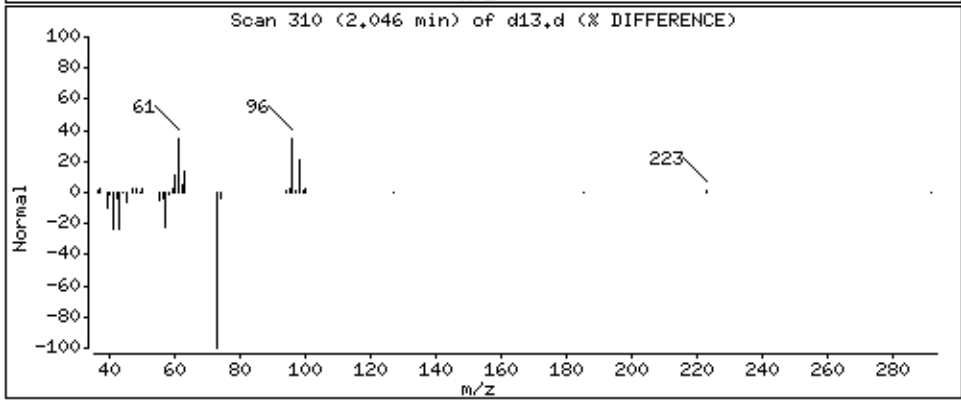
Concentration: 11.6 ppb

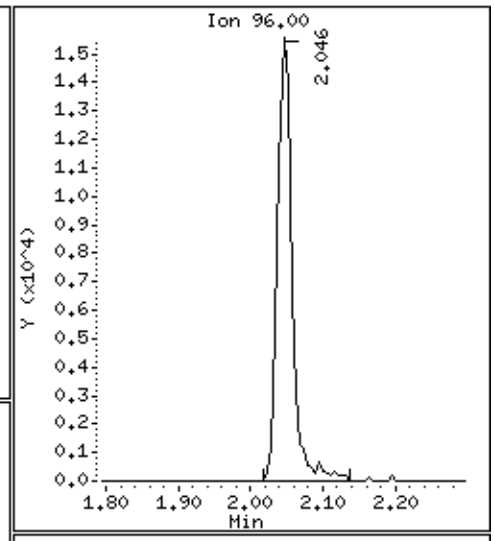
Review Code:

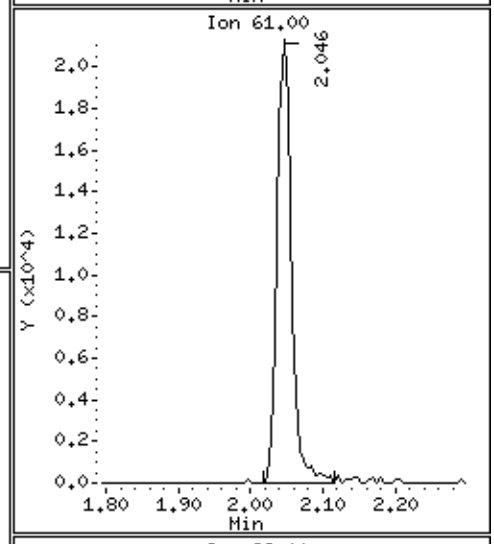


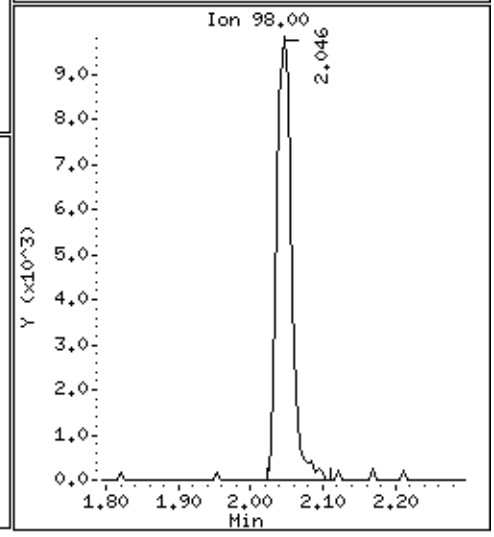












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

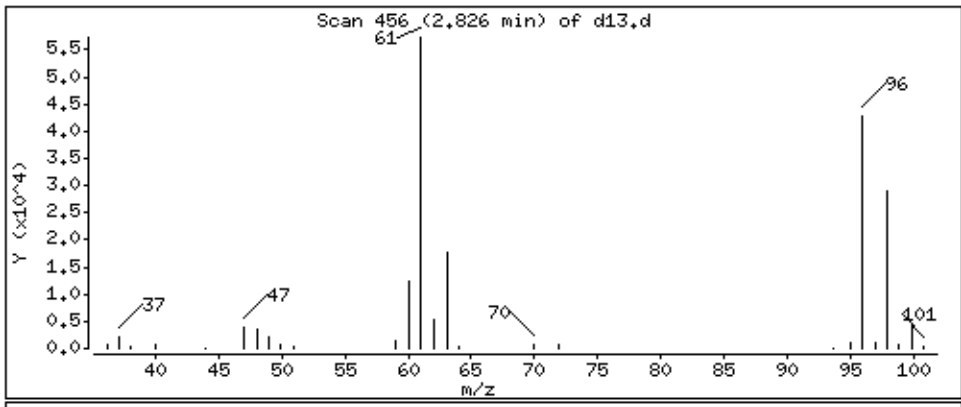
Column phase: DB-624

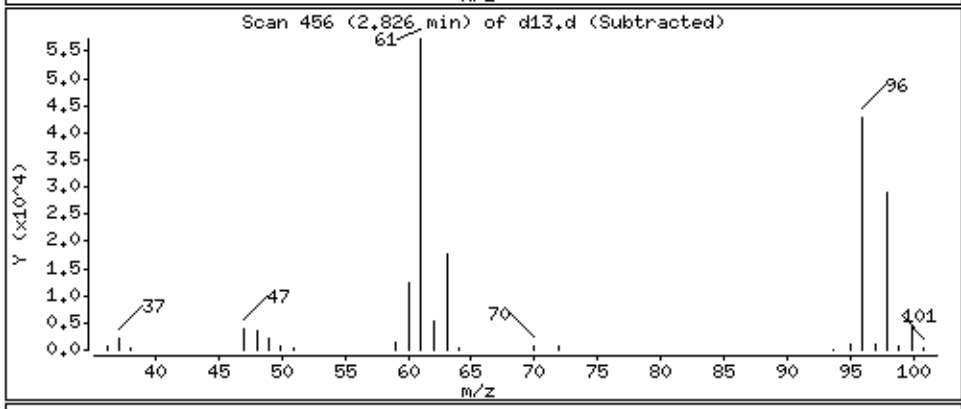
Column diameter: 0.18

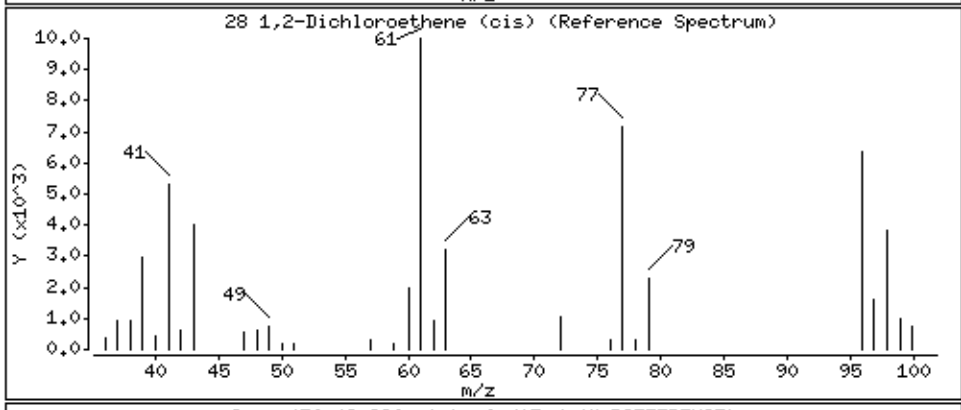
28 1,2-Dichloroethene (cis)

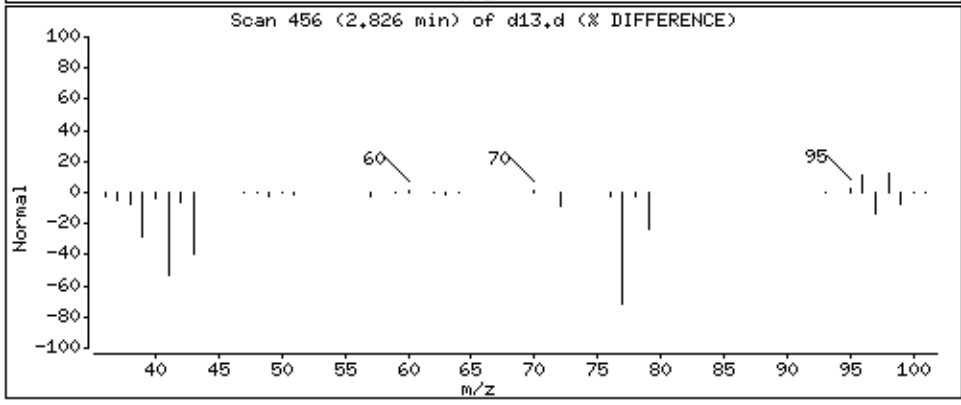
Concentration: 46.5 ppb

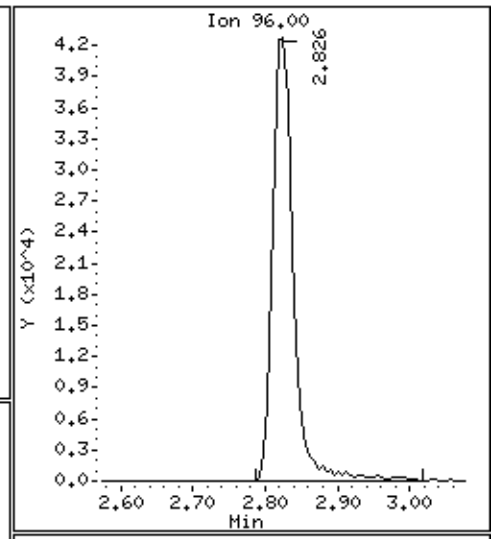
Review Code:

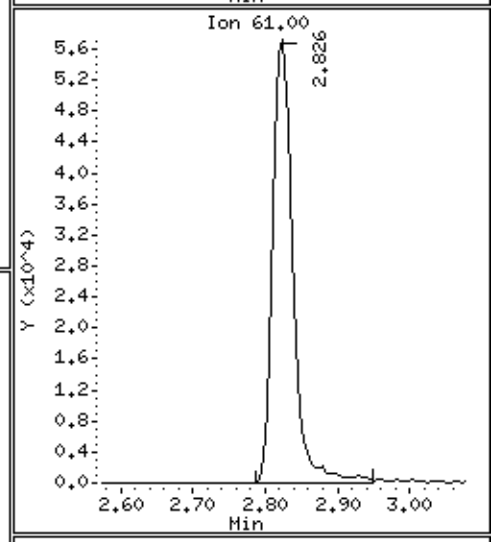


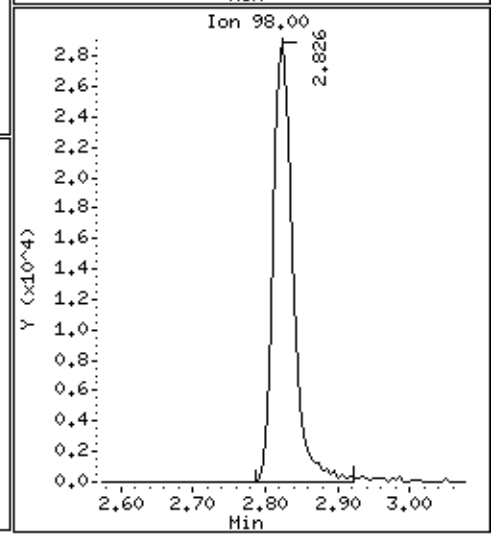












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

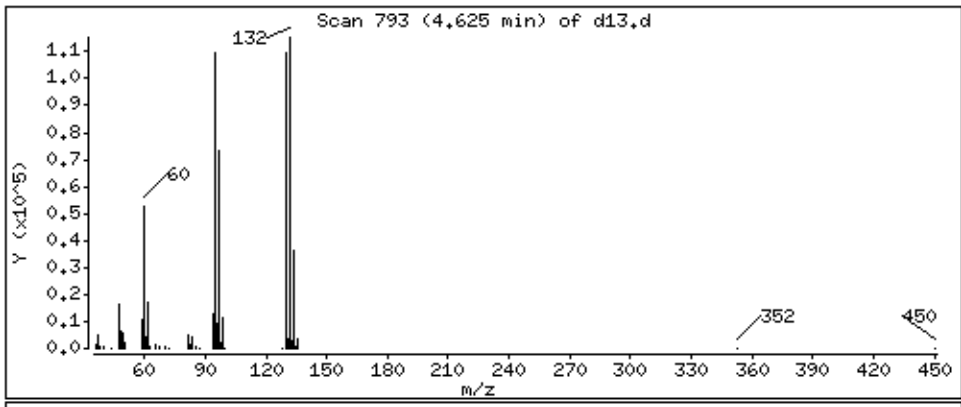
Column phase: DB-624

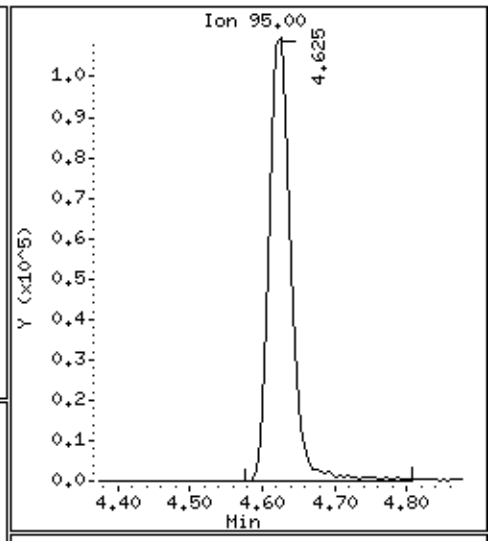
Column diameter: 0.18

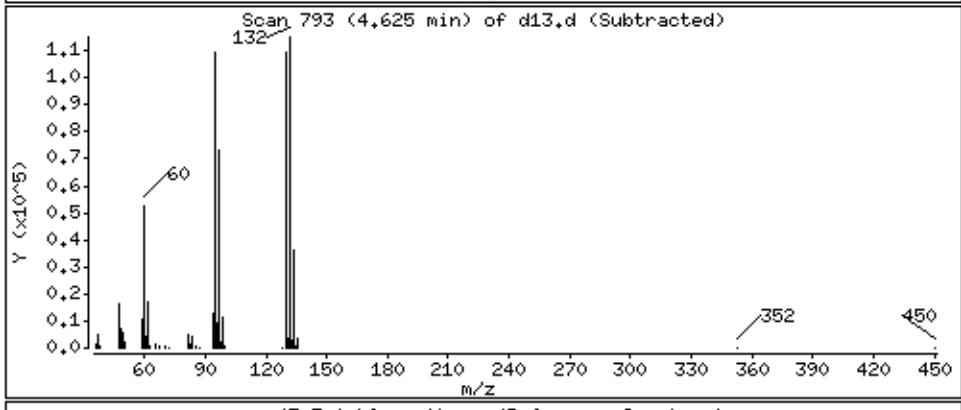
45 Trichloroethene

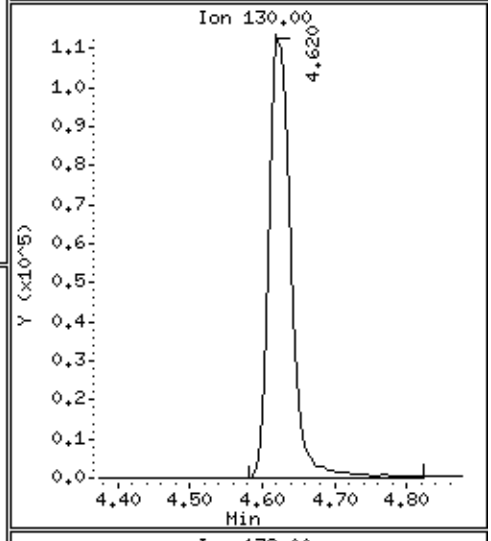
Concentration: 135 ppb

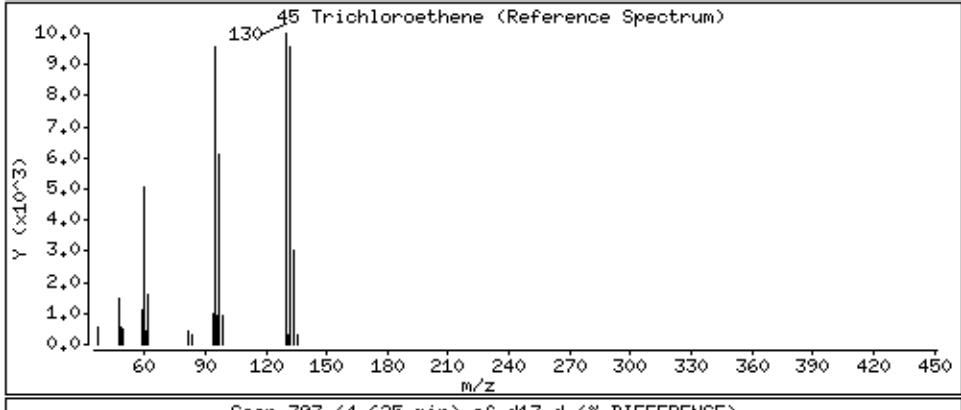
Review Code:

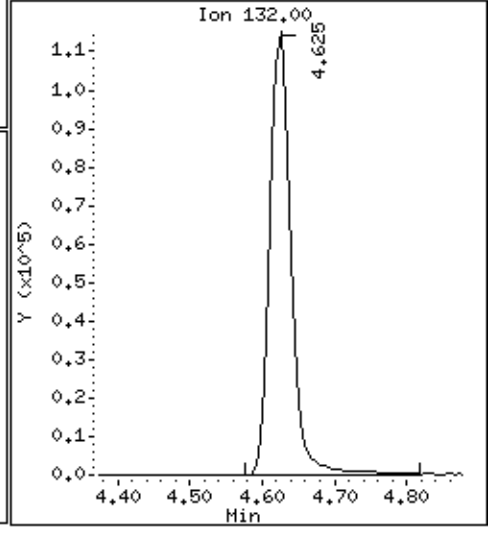


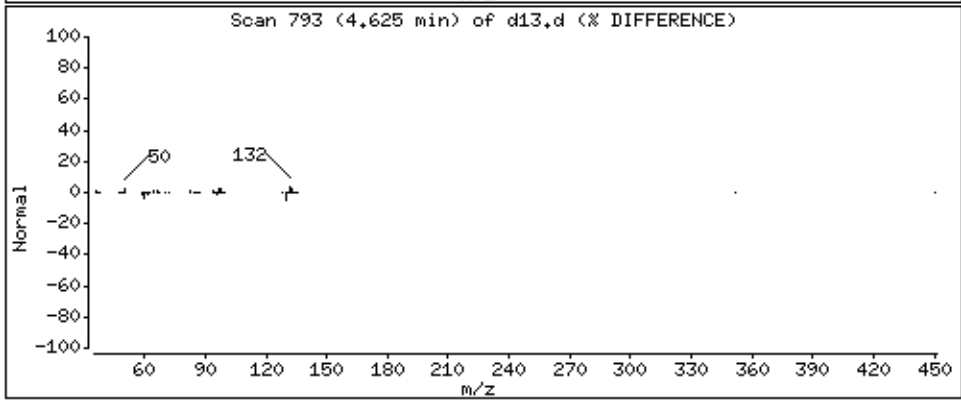












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d13.d

Date : 12-APR-2016 05:38

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 50141666029

Purge Volume: 5.0

Operator: jlz

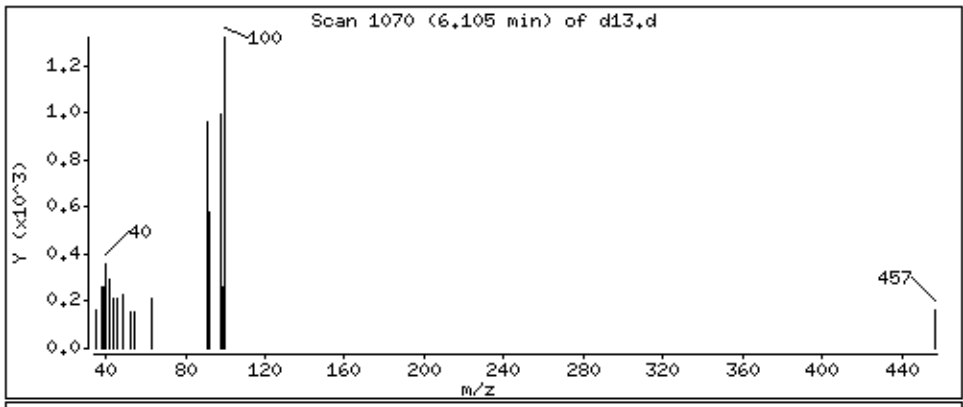
Column phase: DB-624

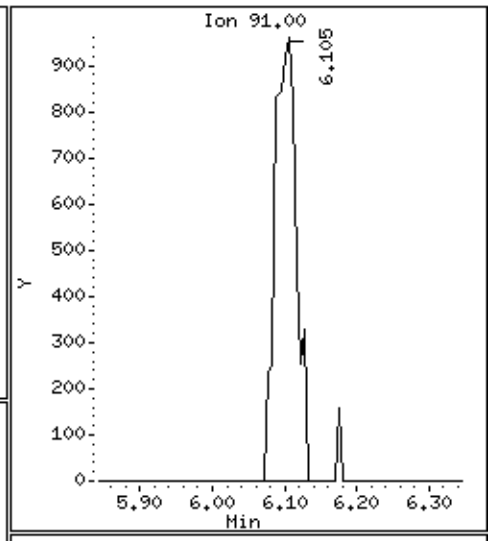
Column diameter: 0.18

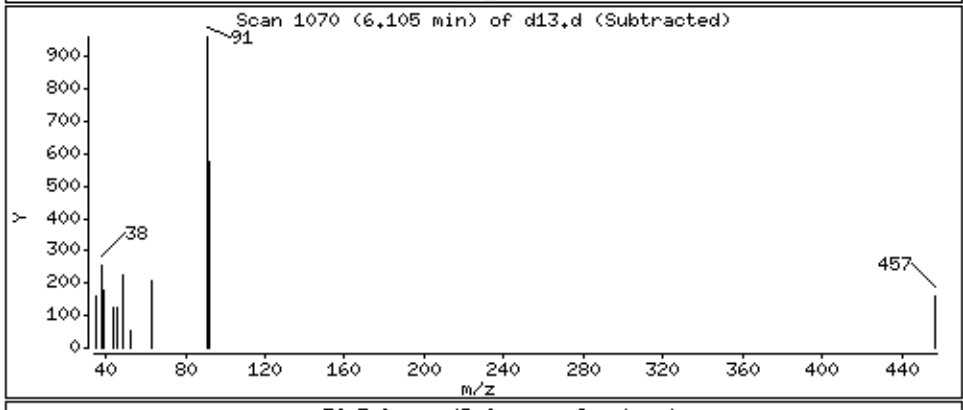
56 Toluene

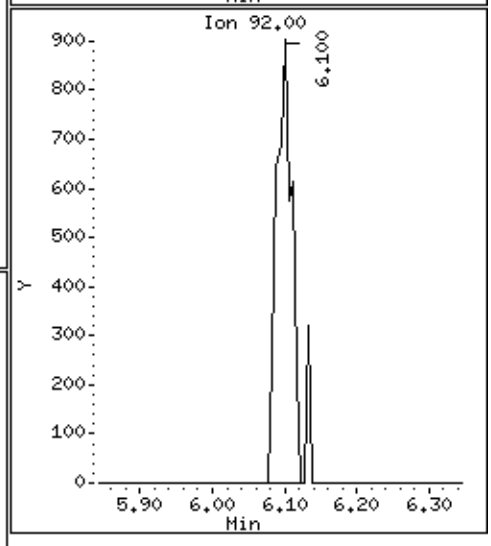
Concentration: 0.270 ppb

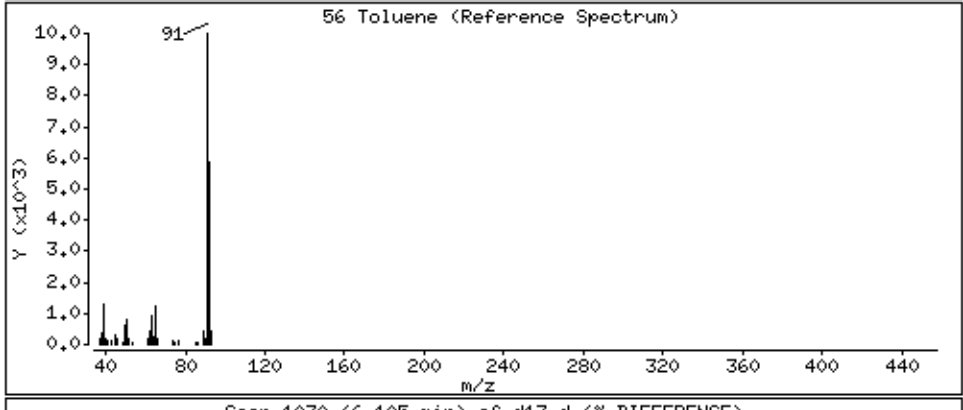
Review Code:

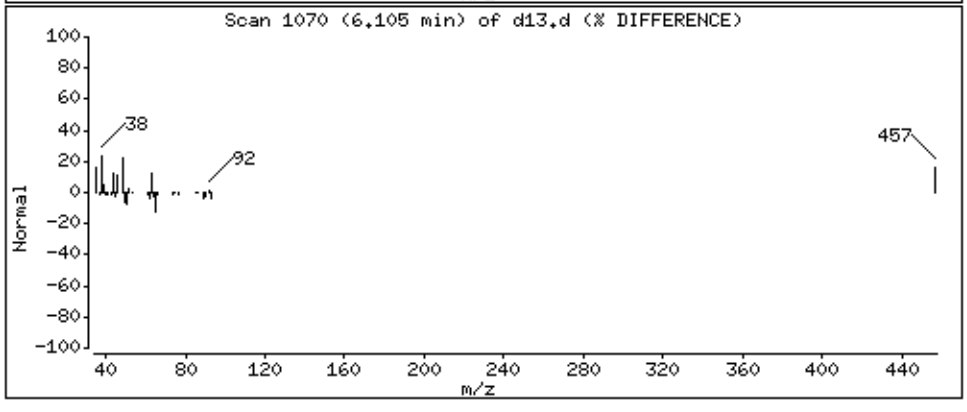












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d13.d
Injection Date: 12-APR-2016 05:38
Instrument: 50mv3b.i
Lab Sample ID: 50141666029
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D
CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D
CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.08063	0.06286	0.06870	0.06079	0.05756
Benzene	Averaged	1.03438	0.96783	0.97551	1.08794	1.02560	1.10245
Bromodichloromethane	Averaged	0.00000	0.27693	0.26871	0.28132	0.26090	0.28322
Bromoform	Averaged	0.00000	0.33804	0.30636	0.30620	0.33895	0.38241
Bromomethane	Averaged		0.27676	0.22547	0.23657	0.21660	0.19778
2-Butanone (MEK)	Averaged			0.07729	0.11471	0.09698	0.09380
Carbon disulfide	Averaged	1.21161	1.07919	0.97496	1.01591	0.93762	0.96630
Carbon tetrachloride	Averaged	0.00000	0.27127	0.28955	0.30798	0.30221	0.33012
Chlorobenzene	Averaged	1.03543	1.03780	0.95703	1.05014	0.97905	1.03713
Chloroethane	Averaged		0.29192	0.26656	0.27035	0.26339	0.24036
Chloroform	Averaged	0.40835	0.43685	0.42800	0.46029	0.41506	0.45070
Chloromethane	Averaged		0.56605	0.46082	0.47216	0.41592	0.35929
Cyclohexane	Averaged	0.55291	0.48901	0.49227	0.53570	0.50060	0.53675
1,2-Dibromo-3-chloropropane	Averaged	0.00000	0.06501	0.05010	0.05189	0.06819	0.06811
Dibromochloromethane	Averaged	0.28151	0.28525	0.28430	0.27220	0.28693	0.31983
1,2-Dibromoethane (EDB)	Averaged	0.23148	0.27012	0.22308	0.25917	0.25350	0.28195
1,2-Dichlorobenzene	Averaged	1.37605	1.56259	1.41090	1.46163	1.36150	1.45200
1,3-Dichlorobenzene	Averaged	1.79711	1.60193	1.64872	1.53225	1.53772	1.63709
1,4-Dichlorobenzene	Averaged	1.96945	1.71005	1.67330	1.61447	1.56645	1.66219
Dichlorodifluoromethane	Averaged	0.00000	0.31743	0.29653	0.35996	0.32862	0.29974
1,1-Dichloroethane	Averaged	0.00000	0.44834	0.46436	0.48322	0.46700	0.50156
1,2-Dichloroethane	Averaged	0.00000	0.31056	0.27228	0.28287	0.27760	0.28082
1,1-Dichloroethene	Averaged	0.33597	0.28054	0.29182	0.30232	0.30653	0.31827
cis-1,2-Dichloroethene	Averaged	0.26296	0.26509	0.25274	0.27381	0.26410	0.28471
trans-1,2-Dichloroethene	Averaged	0.28460	0.26778	0.25628	0.27462	0.26679	0.27730
1,2-Dichloropropane	Averaged	0.00000	0.22180	0.22312	0.24192	0.23614	0.25203
cis-1,3-Dichloropropene	Averaged	0.00000	0.55561	0.51372	0.56772	0.60877	0.69666
trans-1,3-Dichloropropene	Averaged	0.00000	0.32161	0.33737	0.40801	0.44590	0.50787
Ethylbenzene	Averaged	0.52567	0.53825	0.53054	0.55734	0.56719	0.61846
2-Hexanone	Averaged	0.00000	0.19614	0.16880	0.18379	0.19407	0.21654
Isopropylbenzene (Cumene)	Averaged	1.40316	1.39882	1.46070	1.66458	1.65545	1.78756
Methyl acetate	Averaged			0.19460	0.18483	0.16984	0.14161
Methylcyclohexane	Averaged	0.00000	0.32600	0.33170	0.38928	0.37149	0.40369
Methylene Chloride	Averaged		0.33756	0.26049	0.25391	0.22958	0.23592
4-Methyl-2-pentanone (MIBK)	Averaged	0.00000	0.31999	0.29571	0.30161	0.31526	0.34264

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D

CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D

CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Methyl-tert-butyl ether	Averaged	0.54367	0.53602	0.55719	0.56173	0.56654	0.61392
Styrene	Averaged	0.85882	0.89963	0.89110	1.04136	1.03592	1.10738
1,1,2,2-Tetrachloroethane	Averaged	0.00000	0.91182	0.82035	0.79972	0.77382	0.82475
Tetrachloroethene	Averaged	0.00000	0.41052	0.40758	0.41120	0.42192	0.47017
Toluene	Averaged	2.91999	2.31334	2.13996	2.05700	1.97508	2.11445
1,2,4-Trichlorobenzene	Averaged	0.00000	0.82355	0.87580	0.89855	0.83238	0.89050
1,1,1-Trichloroethane	Averaged	0.35730	0.33064	0.35613	0.38933	0.35881	0.40445
1,1,2-Trichloroethane	Averaged	0.00000	0.28080	0.26510	0.24492	0.25503	0.28814
Trichloroethene	Averaged	0.25875	0.25508	0.25422	0.25416	0.24573	0.26095
Trichlorofluoromethane	Averaged	0.58716	0.52578	0.53585	0.58607	0.54314	0.51313
1,1,2-Trichlorotrifluoroethane	Averaged	0.32746	0.33218	0.31661	0.38500	0.34726	0.38784
Vinyl chloride	Averaged	0.41424	0.42375	0.40529	0.48168	0.45727	0.41056
m&p-Xylene	Averaged	0.66377	0.63566	0.63834	0.69980	0.68898	0.75048
o-Xylene	Averaged	0.54434	0.59901	0.55912	0.63337	0.62791	0.65132
4-Bromofluorobenzene (S)	Averaged	0.40387	0.39802	0.40734	0.42394	0.43659	0.40768
Dibromofluoromethane (S)	Averaged	0.21804	0.22955	0.22268	0.21984	0.22496	0.22291
Toluene-d8 (S)	Averaged	1.76728	1.72362	1.74070	1.70772	1.71330	1.72722

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D
CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D
CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.05986	0.05218
Benzene	Averaged	1.04008	1.05909
Bromodichloromethane	Averaged	0.28463	0.28133
Bromoform	Averaged	0.36662	0.36587
Bromomethane	Averaged	0.18750	0.14228
2-Butanone (MEK)	Averaged	0.09275	0.08964
Carbon disulfide	Averaged	0.89861	0.86650
Carbon tetrachloride	Averaged	0.34120	0.37367
Chlorobenzene	Averaged	0.99346	1.04754
Chloroethane	Averaged	0.20669	0.15743
Chloroform	Averaged	0.43218	0.45352
Chloromethane	Averaged	0.37755	0.36102
Cyclohexane	Averaged	0.49761	0.52333
1,2-Dibromo-3-chloropropane	Averaged	0.07692	0.07883
Dibromochloromethane	Averaged	0.31413	0.32613
1,2-Dibromoethane (EDB)	Averaged	0.26284	0.26167
1,2-Dichlorobenzene	Averaged	1.44653	1.63327
1,3-Dichlorobenzene	Averaged	1.56694	1.74094
1,4-Dichlorobenzene	Averaged	1.56811	1.71068
Dichlorodifluoromethane	Averaged	0.30419	0.30402
1,1-Dichloroethane	Averaged	0.52369	0.56814
1,2-Dichloroethane	Averaged	0.28270	0.28046
1,1-Dichloroethene	Averaged	0.29091	0.27423
cis-1,2-Dichloroethene	Averaged	0.28334	0.30486
trans-1,2-Dichloroethene	Averaged	0.27527	0.30401
1,2-Dichloropropane	Averaged	0.24346	0.23917
cis-1,3-Dichloropropene	Averaged	0.66129	0.69505
trans-1,3-Dichloropropene	Averaged	0.50090	0.52551
Ethylbenzene	Averaged	0.60631	0.66699
2-Hexanone	Averaged	0.20845	0.20635
Isopropylbenzene (Cumene)	Averaged	1.72566	1.81715
Methyl acetate	Averaged	0.17168	0.15330
Methylcyclohexane	Averaged	0.38179	0.39815
Methylene Chloride	Averaged	0.23626	0.23657
4-Methyl-2-pentanone (MIBK)	Averaged	0.34053	0.34697

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D

CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D

CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Methyl-tert-butyl ether	Averaged	0.63338	0.69378
Styrene	Averaged	1.11688	1.17777
1,1,2,2-Tetrachloroethane	Averaged	0.74674	0.70524
Tetrachloroethene	Averaged	0.44418	0.49673
Toluene	Averaged	1.98531	2.11165
1,2,4-Trichlorobenzene	Averaged	0.93320	1.02551
1,1,1-Trichloroethane	Averaged	0.39634	0.41858
1,1,2-Trichloroethane	Averaged	0.24527	0.24300
Trichloroethene	Averaged	0.24711	0.25141
Trichlorofluoromethane	Averaged	0.50066	0.45946
1,1,2-Trichlorotrifluoroethane	Averaged	0.35093	0.35818
Vinyl chloride	Averaged	0.41482	0.39171
m&p-Xylene	Averaged	0.73219	0.81215
o-Xylene	Averaged	0.65779	0.70729
4-Bromofluorobenzene (S)	Averaged	0.42055	0.40701
Dibromofluoromethane (S)	Averaged	0.22719	0.23712
Toluene-d8 (S)	Averaged	1.64913	1.71294

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D
CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D
CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	14.50360			0.06323	
Benzene	Averaged	4.62312			1.03661	
Bromodichloromethane	Averaged	3.16990			0.27672	
Bromoform	Averaged	8.70918			0.34349	
Bromomethane	Averaged	19.89989			0.21185	
2-Butanone (MEK)	Averaged	12.89320			0.09419	
Carbon disulfide	Averaged	11.07176			0.99384	
Carbon tetrachloride	Averaged	10.87562			0.31657	
Chlorobenzene	Averaged	3.48546			1.01720	
Chloroethane	Averaged	19.02344			0.24239	
Chloroform	Averaged	4.24550			0.43562	
Chloromethane	Averaged	17.47507			0.43040	
Cyclohexane	Averaged	4.69116			0.51602	
1,2-Dibromo-3-chloropropane	Averaged	16.98757			0.06558	
Dibromochloromethane	Averaged	6.88712			0.29628	
1,2-Dibromoethane (EDB)	Averaged	7.61717			0.25548	
1,2-Dichlorobenzene	Averaged	6.32182			1.46306	
1,3-Dichlorobenzene	Averaged	5.82862			1.63284	
1,4-Dichlorobenzene	Averaged	7.62773			1.68434	
Dichlorodifluoromethane	Averaged	7.10463			0.31578	
1,1-Dichloroethane	Averaged	8.36807			0.49376	
1,2-Dichloroethane	Averaged	4.33671			0.28390	
1,1-Dichloroethene	Averaged	6.74544			0.30007	
cis-1,2-Dichloroethene	Averaged	6.02285			0.27395	
trans-1,2-Dichloroethene	Averaged	5.13406			0.27583	
1,2-Dichloropropane	Averaged	4.62801			0.23680	
cis-1,3-Dichloropropene	Averaged	11.75612			0.61412	
trans-1,3-Dichloropropene	Averaged	19.00842			0.43531	
Ethylbenzene	Averaged	8.66320			0.57634	
2-Hexanone	Averaged	8.25700			0.19630	
Isopropylbenzene (Cumene)	Averaged	10.53432			1.61414	
Methyl acetate	Averaged	11.54377			0.16931	
Methylcyclohexane	Averaged	8.37992			0.37173	
Methylene Chloride	Averaged	14.75503			0.25575	
4-Methyl-2-pentanone (MIBK)	Averaged	6.36262			0.32325	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3A GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:37 19:21

LAB FILE ID

CAL1 = A032516CAL.B\A04CAL1.D CAL2 = A032516CAL.B\A05CAL2.D CAL3 = A032516CAL.B\A06CAL3.D

CAL4 = A032516CAL.B\A07CAL4.D CAL5 = A032516CAL.B\A08CAL5.D CAL6 = A032516CAL.B\A09CAL6.D

CAL7 = A032516CAL.B\A10CAL7.D CAL8 = A032516CAL.B\A11CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Methyl-tert-butyl ether	Averaged	9.24104			0.58828	
Styrene	Averaged	11.73835			1.01611	
1,1,2,2-Tetrachloroethane	Averaged	8.25258			0.79749	
Tetrachloroethene	Averaged	7.90577			0.43747	
Toluene	Averaged	14.01828			2.20210	
1,2,4-Trichlorobenzene	Averaged	7.60017			0.89707	
1,1,1-Trichloroethane	Averaged	7.97588			0.37645	
1,1,2-Trichloroethane	Averaged	7.02686			0.26032	
Trichloroethene	Averaged	2.06745			0.25343	
Trichlorofluoromethane	Averaged	8.02856			0.53141	
1,1,2-Trichlorotrifluoroethane	Averaged	7.36426			0.35068	
Vinyl chloride	Averaged	6.99239			0.42491	
m&p-Xylene	Averaged	8.58633			0.70267	
o-Xylene	Averaged	8.60572			0.62252	
4-Bromofluorobenzene (S)	Averaged	3.08495			0.41313	
Dibromofluoromethane (S)	Averaged	2.68674			0.22529	
Toluene-d8 (S)	Averaged	1.96262			1.71774	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D
CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D
CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.09361	0.06774	0.07201	0.06348	0.06308
Benzene	Averaged	0.95491	0.96131	0.94347	1.09034	1.12574	1.07290
Bromodichloromethane	Averaged	0.00000	0.26935	0.24083	0.25553	0.27038	0.28473
Bromoform	Averaged	0.00000	0.27664	0.31148	0.24262	0.28854	0.32659
Bromomethane	Averaged	0.28383	0.25844	0.25839	0.25836	0.24267	0.22648
2-Butanone (MEK)	Averaged	0.00000	0.00000	0.06879	0.09662	0.09616	0.09016
Carbon disulfide	Averaged	0.00000	0.31187	0.34177	0.36723	0.38787	0.39192
Carbon tetrachloride	Averaged	0.00000	0.25328	0.27158	0.31845	0.33356	0.33140
Chlorobenzene	Averaged	0.99149	1.07041	0.97309	1.02257	1.05730	1.01559
Chloroethane	Averaged	0.00000	0.33764	0.27808	0.33590	0.31182	0.26625
Chloroform	Averaged	0.44563	0.43118	0.40753	0.44106	0.44368	0.43777
Chloromethane	Averaged		0.76493	0.55960	0.59701	0.55867	0.49040
Cyclohexane	Averaged	0.51580	0.50395	0.46034	0.51440	0.51083	0.50655
1,2-Dibromo-3-chloropropane	Averaged	0.00000	0.04482	0.05976	0.06480	0.06134	0.07244
Dibromochloromethane	Averaged	0.20208	0.25695	0.24981	0.25885	0.26622	0.29394
1,2-Dibromoethane (EDB)	Averaged	0.00000	0.25757	0.23696	0.24850	0.25922	0.25209
1,2-Dichlorobenzene	Averaged	1.61451	1.67003	1.45129	1.45016	1.41975	1.42244
1,3-Dichlorobenzene	Averaged	1.89987	1.59863	1.59656	1.62557	1.62103	1.63294
1,4-Dichlorobenzene	Averaged	1.65986	1.78408	1.58929	1.62269	1.63299	1.61215
Dichlorodifluoromethane	Averaged	0.41346	0.34507	0.34888	0.40189	0.38658	0.35461
1,1-Dichloroethane	Averaged	0.00000	0.44678	0.44049	0.49098	0.51640	0.50515
1,2-Dichloroethane	Averaged	0.00000	0.29894	0.29055	0.29171	0.29037	0.27340
1,1-Dichloroethene	Averaged	0.31545	0.28227	0.28312	0.32378	0.32682	0.31458
cis-1,2-Dichloroethene	Averaged	0.23320	0.21840	0.25410	0.28354	0.28285	0.28944
trans-1,2-Dichloroethene	Averaged	0.25709	0.26299	0.24885	0.27726	0.28135	0.27643
1,2-Dichloropropane	Averaged	0.00000	0.21806	0.22655	0.23334	0.25337	0.24710
cis-1,3-Dichloropropene	Averaged	0.00000	0.44573	0.46939	0.53798	0.58860	0.61710
trans-1,3-Dichloropropene	Averaged	0.00000	0.31003	0.32016	0.36882	0.39483	0.44933
Ethylbenzene	Averaged	0.51842	0.52947	0.54356	0.62562	0.61238	0.60685
2-Hexanone	Averaged	0.00000	0.18774	0.16692	0.17040	0.17192	0.19304
Isopropylbenzene (Cumene)	Averaged	1.43115	1.62829	1.53101	1.76967	1.88259	1.84750
Methyl acetate	Averaged	0.00000	0.00000	0.16289	0.15523	0.14710	0.14732
Methylcyclohexane	Averaged	0.00000	0.30852	0.32000	0.37709	0.40233	0.39671
Methylene Chloride	Averaged		0.32459	0.28544	0.26546	0.26978	0.24913
4-Methyl-2-pentanone (MIBK)	Averaged	0.00000	0.27487	0.24895	0.25921	0.28504	0.30066

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D

CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D

CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Methyl-tert-butyl ether	Averaged	0.46558	0.50469	0.52211	0.50495	0.55900	0.57000
Styrene	Averaged	0.97336	0.99290	0.97178	1.06380	1.16437	1.13948
1,1,2,2-Tetrachloroethane	Averaged	0.00000	0.88833	0.79939	0.67405	0.71881	0.72802
Tetrachloroethene	Averaged	0.00000	0.37433	0.37715	0.43354	0.44406	0.44972
Toluene	Averaged	2.75089	2.15739	1.98745	2.02897	2.04872	1.97267
1,2,4-Trichlorobenzene	Averaged	0.00000	0.96839	0.83537	0.82813	0.87494	0.85038
1,1,1-Trichloroethane	Averaged	0.36744	0.34072	0.32844	0.38402	0.40103	0.39222
1,1,2-Trichloroethane	Averaged	0.00000	0.23639	0.23696	0.23723	0.25488	0.24125
Trichloroethene	Averaged	0.00000	0.21786	0.23097	0.25576	0.26555	0.25346
Trichlorofluoromethane	Averaged	0.56317	0.55792	0.50293	0.62814	0.60695	0.55046
1,1,2-Trichlorotrifluoroethane	Averaged	0.31966	0.36422	0.33004	0.39513	0.39233	0.37290
Vinyl chloride	Averaged	0.50874	0.50851	0.46226	0.52543	0.52300	0.47408
m&p-Xylene	Averaged	0.58487	0.65371	0.64077	0.73108	0.76752	0.74856
o-Xylene	Averaged	0.61194	0.57720	0.56887	0.64078	0.68185	0.68081
4-Bromofluorobenzene (S)	Averaged	0.44086	0.43489	0.43100	0.44019	0.45557	0.43508
Dibromofluoromethane (S)	Averaged	0.22656	0.22900	0.23168	0.22997	0.23189	0.21822
Toluene-d8 (S)	Averaged	1.65118	1.62229	1.64192	1.61783	1.63902	1.60846

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D
CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D
CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.06293	0.05593
Benzene	Averaged	1.08843	1.06922
Bromodichloromethane	Averaged	0.29360	0.29092
Bromoform	Averaged	0.34944	0.35085
Bromomethane	Averaged	0.21024	0.14764
2-Butanone (MEK)	Averaged	0.09387	0.09202
Carbon disulfide	Averaged	0.38634	0.37959
Carbon tetrachloride	Averaged	0.35555	0.37246
Chlorobenzene	Averaged	1.03103	1.08117
Chloroethane	Averaged	0.23466	
Chloroform	Averaged	0.45449	0.45042
Chloromethane	Averaged	0.49824	0.50459
Cyclohexane	Averaged	0.51780	0.52908
1,2-Dibromo-3-chloropropane	Averaged	0.07581	0.07151
Dibromochloromethane	Averaged	0.30635	0.31500
1,2-Dibromoethane (EDB)	Averaged	0.25801	0.25719
1,2-Dichlorobenzene	Averaged	1.51681	1.60616
1,3-Dichlorobenzene	Averaged	1.69095	1.77080
1,4-Dichlorobenzene	Averaged	1.66597	1.72182
Dichlorodifluoromethane	Averaged	0.35707	0.33991
1,1-Dichloroethane	Averaged	0.53217	0.55684
1,2-Dichloroethane	Averaged	0.28509	0.28304
1,1-Dichloroethene	Averaged	0.30708	0.28788
cis-1,2-Dichloroethene	Averaged	0.29441	0.30240
trans-1,2-Dichloroethene	Averaged	0.28255	0.29048
1,2-Dichloropropane	Averaged	0.25386	0.24953
cis-1,3-Dichloropropene	Averaged	0.62805	0.62829
trans-1,3-Dichloropropene	Averaged	0.48147	0.48909
Ethylbenzene	Averaged	0.64430	0.72002
2-Hexanone	Averaged	0.19901	0.19037
Isopropylbenzene (Cumene)	Averaged	1.93687	2.04278
Methyl acetate	Averaged	0.15712	0.15460
Methylcyclohexane	Averaged	0.40984	0.41311
Methylene Chloride	Averaged	0.25518	0.24761
4-Methyl-2-pentanone (MIBK)	Averaged	0.31009	0.30451

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D

CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D

CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Methyl-tert-butyl ether	Averaged	0.61841	0.64869
Styrene	Averaged	1.21805	1.29377
1,1,2,2-Tetrachloroethane	Averaged	0.73038	0.66995
Tetrachloroethene	Averaged	0.45151	0.48347
Toluene	Averaged	1.91525	1.97334
1,2,4-Trichlorobenzene	Averaged	0.88594	0.88591
1,1,1-Trichloroethane	Averaged	0.42240	0.42817
1,1,2-Trichloroethane	Averaged	0.23456	0.22754
Trichloroethene	Averaged	0.26392	0.26120
Trichlorofluoromethane	Averaged	0.56598	0.50818
1,1,2-Trichlorotrifluoroethane	Averaged	0.36284	0.33949
Vinyl chloride	Averaged	0.46912	0.43096
m&p-Xylene	Averaged	0.79247	0.89337
o-Xylene	Averaged	0.73558	0.76843
4-Bromofluorobenzene (S)	Averaged	0.44145	0.43503
Dibromofluoromethane (S)	Averaged	0.23220	0.23200
Toluene-d8 (S)	Averaged	1.57308	1.57172

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D

CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D

CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	17.77963			0.06840	
Benzene	Averaged	6.99221			1.03829	
Bromodichloromethane	Averaged	7.09704			0.27219	
Bromoform	Averaged	13.00213			0.30659	
Bromomethane	Averaged	17.85130			0.23575	
2-Butanone (MEK)	Averaged	11.70528			0.08960	
Carbon disulfide	Averaged	8.07897			0.36666	
Carbon tetrachloride	Averaged	13.47914			0.31947	
Chlorobenzene	Averaged	3.66510			1.03033	
Chloroethane	Averaged	14.03953			0.29406	
Chloroform	Averaged	3.32734			0.43897	
Chloromethane	Averaged	16.81941			0.56764	
Cyclohexane	Averaged	4.03695			0.50735	
1,2-Dibromo-3-chloropropane	Averaged	16.29598			0.06435	
Dibromochloromethane	Averaged	13.51956			0.26865	
1,2-Dibromoethane (EDB)	Averaged	3.14976			0.25279	
1,2-Dichlorobenzene	Averaged	6.49042			1.51889	
1,3-Dichlorobenzene	Averaged	6.32288			1.67954	
1,4-Dichlorobenzene	Averaged	3.85167			1.66111	
Dichlorodifluoromethane	Averaged	7.63395			0.36843	
1,1-Dichloroethane	Averaged	8.59052			0.49840	
1,2-Dichloroethane	Averaged	2.80549			0.28759	
1,1-Dichloroethene	Averaged	5.96952			0.30512	
cis-1,2-Dichloroethene	Averaged	11.41695			0.26979	
trans-1,2-Dichloroethene	Averaged	5.24618			0.27212	
1,2-Dichloropropane	Averaged	5.93108			0.24026	
cis-1,3-Dichloropropene	Averaged	13.67892			0.55931	
trans-1,3-Dichloropropene	Averaged	18.29506			0.40196	
Ethylbenzene	Averaged	11.27407			0.60008	
2-Hexanone	Averaged	6.96934			0.18277	
Isopropylbenzene (Cumene)	Averaged	12.00293			1.75873	
Methyl acetate	Averaged	3.92540			0.15404	
Methylcyclohexane	Averaged	11.57838			0.37537	
Methylene Chloride	Averaged	9.97808			0.27103	
4-Methyl-2-pentanone (MIBK)	Averaged	8.28095			0.28333	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-6
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV3B GC Column: Col 1 SDG No.: 50141666

Calibration Date(s): 03/25/2016 03/25/2016 Calibration Time(s): 15:53 19:37

LAB FILE ID

CAL1 = B032516CAL.B\B04CAL1.D CAL2 = B032516CAL.B\B05CAL2.D CAL3 = B032516CAL.B\B06CAL3.D

CAL4 = B032516CAL.B\B07CAL4.D CAL5 = B032516CAL.B\B08CAL5.D CAL6 = B032516CAL.B\B09CAL6.D

CAL7 = B032516CAL.B\B10CAL7.D CAL8 = B032516CAL.B\B11CAL8.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Methyl-tert-butyl ether	Averaged	11.28420			0.54918	
Styrene	Averaged	10.97377			1.10219	
1,1,2,2-Tetrachloroethane	Averaged	10.31525			0.74413	
Tetrachloroethene	Averaged	9.39184			0.43054	
Toluene	Averaged	12.87124			2.10434	
1,2,4-Trichlorobenzene	Averaged	5.38345			0.87558	
1,1,1-Trichloroethane	Averaged	9.36580			0.38306	
1,1,2-Trichloroethane	Averaged	3.50894			0.23840	
Trichloroethene	Averaged	7.30932			0.24982	
Trichlorofluoromethane	Averaged	7.66809			0.56047	
1,1,2-Trichlorotrifluoroethane	Averaged	7.73561			0.35958	
Vinyl chloride	Averaged	6.90586			0.48776	
m&p-Xylene	Averaged	13.47528			0.72655	
o-Xylene	Averaged	10.92487			0.65818	
4-Bromofluorobenzene (S)	Averaged	1.71369			0.43926	
Dibromofluoromethane (S)	Averaged	2.07486			0.22894	
Toluene-d8 (S)	Averaged	1.86294			1.61569	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a04cal1.d
Lab Smp Id: 8260-CAL1,117886:0
Inj Date : 25-MAR-2016 15:37
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal1,117886:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 15:37   Cal File: a04cal1.d
Als bottle: 9   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
2 Chloromethane	50	0.993	0.996	(0.239)	6587	1.00000	1.61	
3 Vinyl Chloride	62	1.036	1.039	(0.249)	3943	1.00000	0.975	
4 Bromomethane	94	1.186	1.183	(0.285)	2765	1.00000	1.37	
5 Chloroethane	64	1.228	1.226	(0.296)	3223	1.00000	1.40	
6 Trichlorofluoromethane	101	1.341	1.343	(0.323)	5589	1.00000	1.10	
7 Diethyl ether	74	1.463	1.466	(0.352)	1681	1.00000	1.02(Q)	
8 1,2-dichlorotrifluoroethane	67	1.479	1.482	(0.356)	3767	1.00000	0.990	
9 Acrolein	56	1.533	1.536	(0.369)	7131	20.0000	20.0	
10 1,1,2trichlorotrifluoroethane	101	1.586	1.589	(0.382)	3117	1.00000	0.934	
11 1,1-Dichloroethene	96	1.597	1.594	(0.384)	3198	1.00000	1.12(Q)	
12 Acetone	43	1.602	1.605	(0.386)	5012	5.00000	8.33	
13 Iodomethane	142	1.682	1.680	(0.405)	4272	2.00000	1.41	
14 Carbon Disulfide	76	1.725	1.728	(0.415)	11533	1.00000	1.22	
16 allyl chloride	41	1.789	1.787	(0.431)	12296	2.00000	2.20	
17 Acetonitrile	39	1.784	1.787	(0.429)	8009	1.00000	1.04	
18 Methylene Chloride	84	1.859	1.867	(0.447)	3998	1.00000	1.64	
19 Acrylonitrile	53	1.998	2.000	(0.481)	2168	4.00000	3.78	
20 Methyl-tert-butyl ether	73	2.024	2.027	(0.487)	5175	1.00000	0.924(Q)	
22 1,2-Dichloroethene (trans)	96	2.035	2.038	(0.490)	2709	1.00000	1.03	
23 n-Hexane	57	2.217	2.219	(0.533)	10569	1.00000	1.88	
24 Vinyl Acetate	43	2.329	2.331	(0.560)	13781	4.00000	3.29	
28 1,2-Dichloroethene (cis)	96	2.809	2.818	(0.676)	2503	1.00000	0.960(Q)	
34 Chloroform	83	3.151	3.159	(0.758)	3887	1.00000	0.937	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
$	35 Dibromofluoromethane (S)	113	3.322	3.336	(0.799)	103773	50.0000	48.4	
	36 1,1,1-Trichloroethane	97	3.322	3.330	(0.799)	3401	1.00000	0.949	
	37 Cyclohexane	56	3.408	3.421	(0.820)	5263	1.00000	1.07	
	40 1,1-Dichloropropene	75	3.520	3.523	(0.847)	3120	1.00000	0.889	
	41 Benzene	78	3.755	3.768	(0.904)	9846	1.00000	0.998	
	43 2,2,4-Trimethylpentane	57	3.936	3.944	(0.947)	9606	1.00000	0.878	
*	45 Fluorobenzene (IS)	96	4.155	4.169	(1.000)	475936	50.0000		
	46 Trichloroethene	95	4.609	4.617	(1.109)	2463	1.00000	1.02	
$	56 Toluene-d8 (S)	98	6.014	6.017	(0.820)	383264	50.0000	51.4	
	57 Toluene	91	6.089	6.092	(0.830)	12665	1.00000	1.33	
	64 Dibromochloromethane	129	6.885	6.887	(0.938)	1221	1.00000	0.950	
	65 1,2-Dibromoethane	107	6.975	6.973	(0.951)	1004	1.00000	0.906	
*	66 Chlorobenzene-D5 (IS)	117	7.339	7.341	(1.000)	216867	50.0000		
	67 Chlorobenzene	112	7.365	7.368	(1.004)	4491	1.00000	1.02	
	68 1,1,1,2-Tetrachloroethane	131	7.440	7.443	(1.014)	1270	1.00000	0.942(M)	WP
	69 Ethylbenzene	106	7.445	7.448	(1.015)	2280	1.00000	0.912	
	70 m&p-Xylene	106	7.547	7.544	(1.028)	5758	2.00000	1.89	
	71 o-Xylene	106	7.809	7.806	(1.064)	2361	1.00000	0.874	
	72 Styrene	104	7.825	7.827	(1.066)	3725	1.00000	0.845	
	74 Isopropylbenzene	105	8.049	8.052	(1.097)	6086	1.00000	0.869	
$	75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.112)	87586	50.0000	48.9	
	76 Bromobenzene	77	8.241	8.244	(1.123)	2848	1.00000	1.11	
	80 n-Propylbenzene	91	8.311	8.308	(0.940)	7956	1.00000	0.999	
	81 2-Chlorotoluene	91	8.359	8.362	(0.946)	4676	1.00000	1.07	
	82 1,3,5-Trimethylbenzene	105	8.418	8.420	(0.952)	4702	1.00000	0.958	
	83 4-Chlorotoluene	126	8.439	8.436	(0.955)	1133	1.00000	0.800(Q)	
	84 tert-Butylbenzene	119	8.604	8.602	(0.973)	4768	1.00000	0.888	
	85 1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	4312	1.00000	0.896	
	86 sec-Butylbenzene	105	8.727	8.725	(0.987)	5746	1.00000	0.893	
	87 1,3-Dichlorobenzene	146	8.797	8.794	(0.995)	2659	1.00000	1.10(M)	WP
	88 p-Isopropyltoluene	119	8.813	8.816	(0.997)	4809	1.00000	0.921	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	73980	50.0000		
	90 1,4-Dichlorobenzene	146	8.850	8.853	(1.001)	2914	1.00000	1.17	
	91 n-Butylbenzene	91	9.032	9.029	(1.022)	4474	1.00000	0.877	
	92 1,2-Dichlorobenzene	146	9.042	9.045	(1.023)	2036	1.00000	0.940	
	96 Naphthalene	128	10.004	10.001	(1.132)	2916	1.00000	1.02	
	98 2,methyl-naphthalene	142	10.629	10.632	(1.202)	1863	1.00000	1.01(M)	NI
	99 1-Methylnaphthalene	142	10.752	10.749	(1.216)	1744	1.00000	1.08(M)	NI

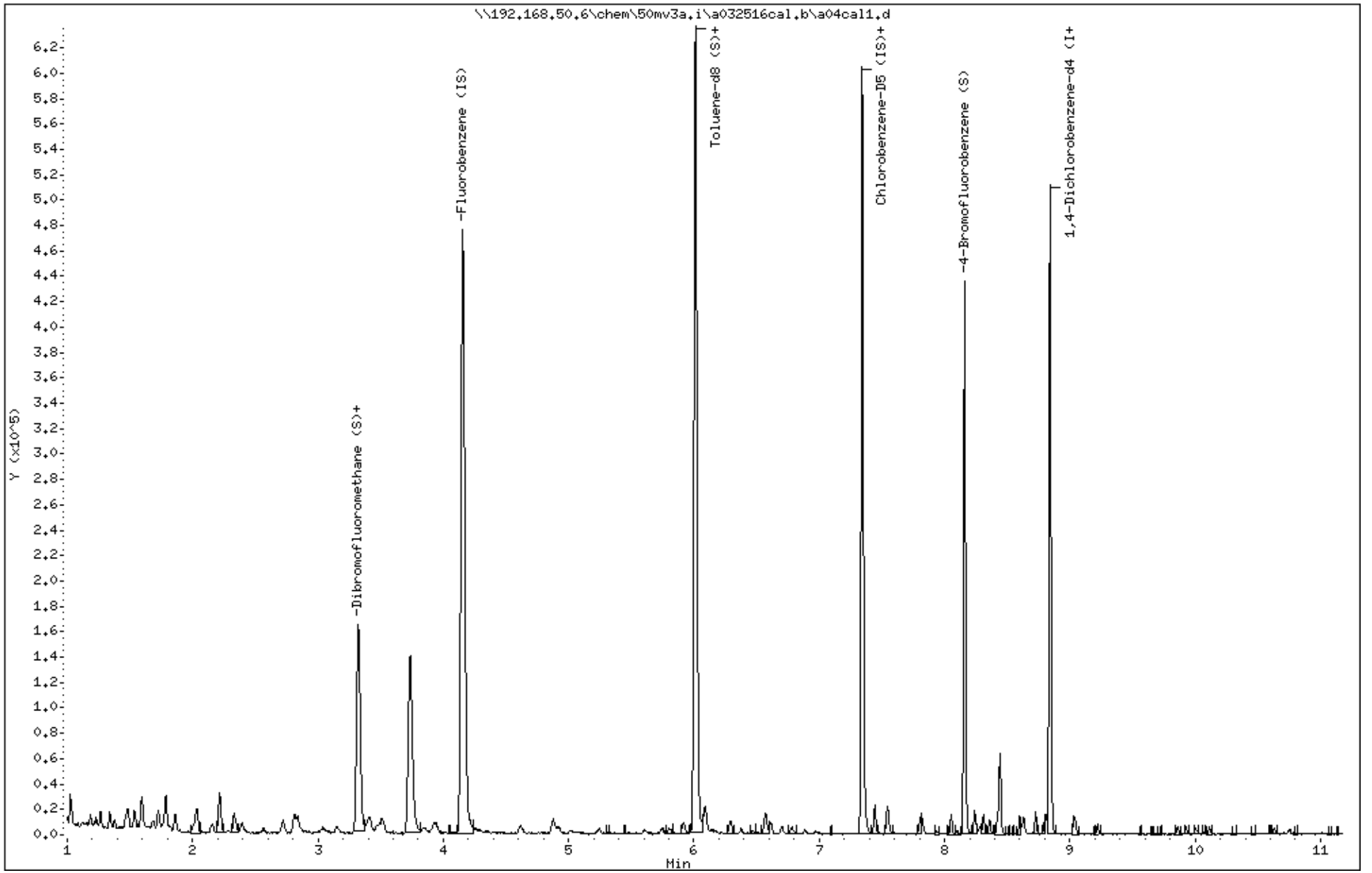
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

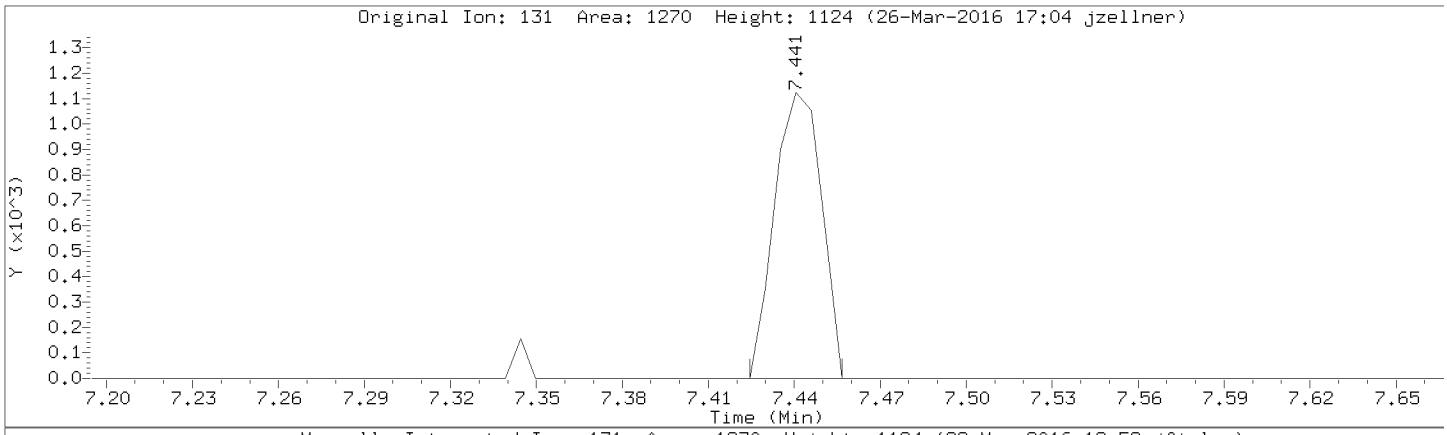
:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

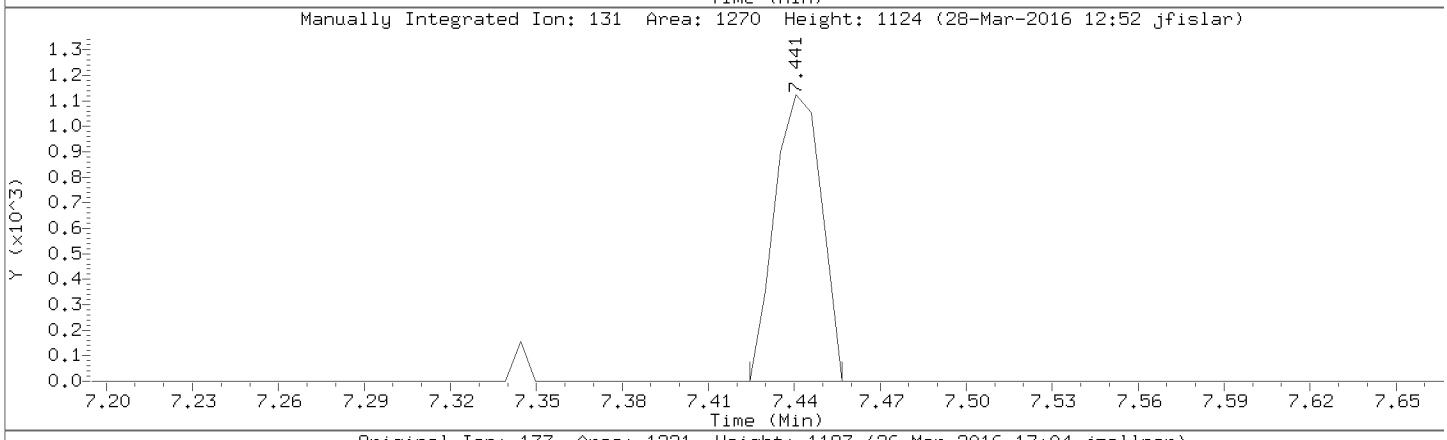
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a04cal1.d
Date : 25-MAR-2016 15:37
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL1,117886:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

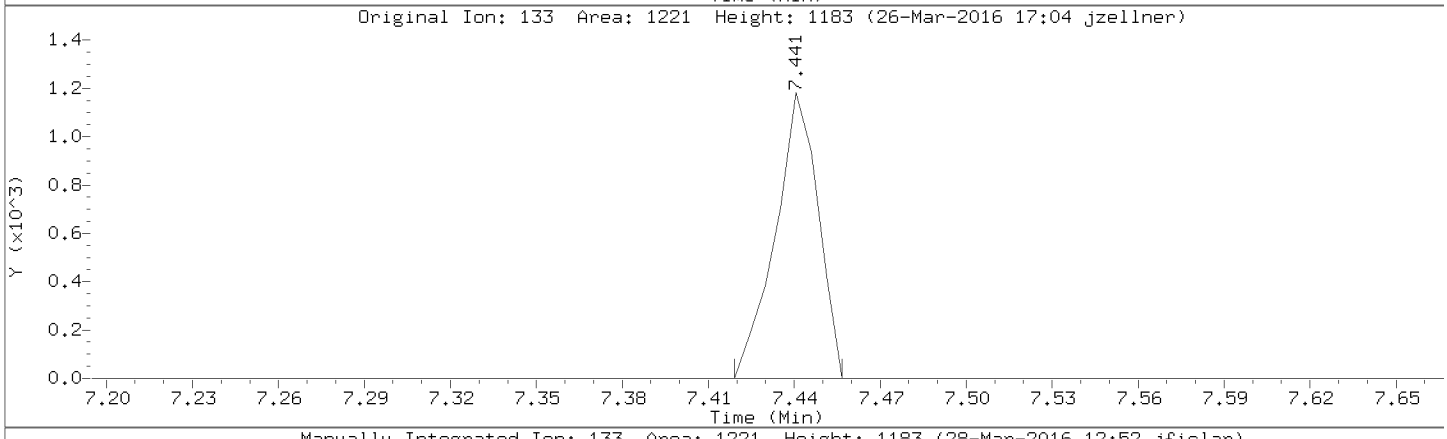


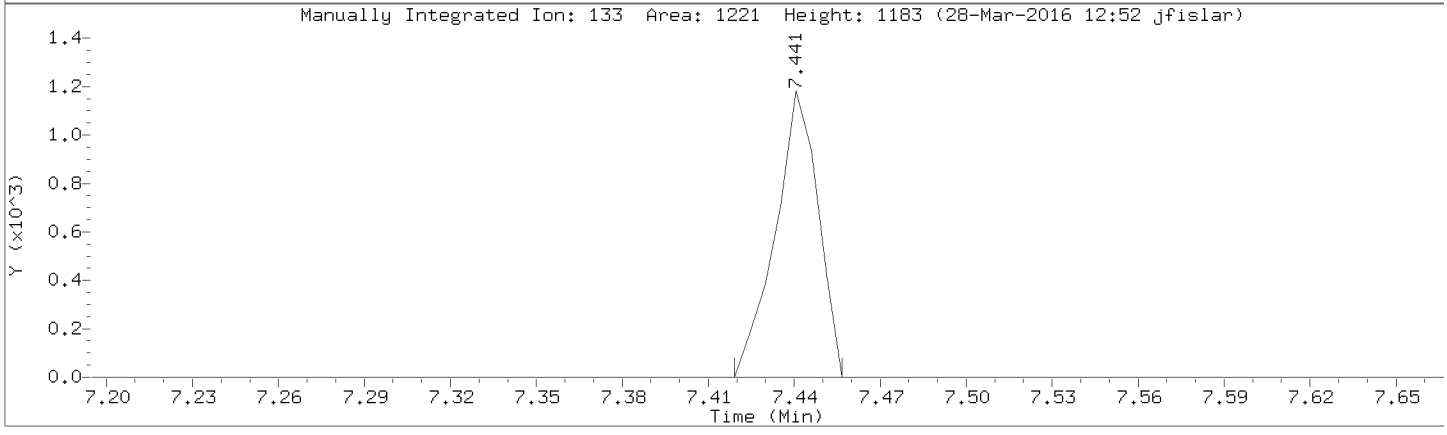
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 1,1,1,2-Tetrachloroethane Review Code: WP
CAS Number: 630-20-6

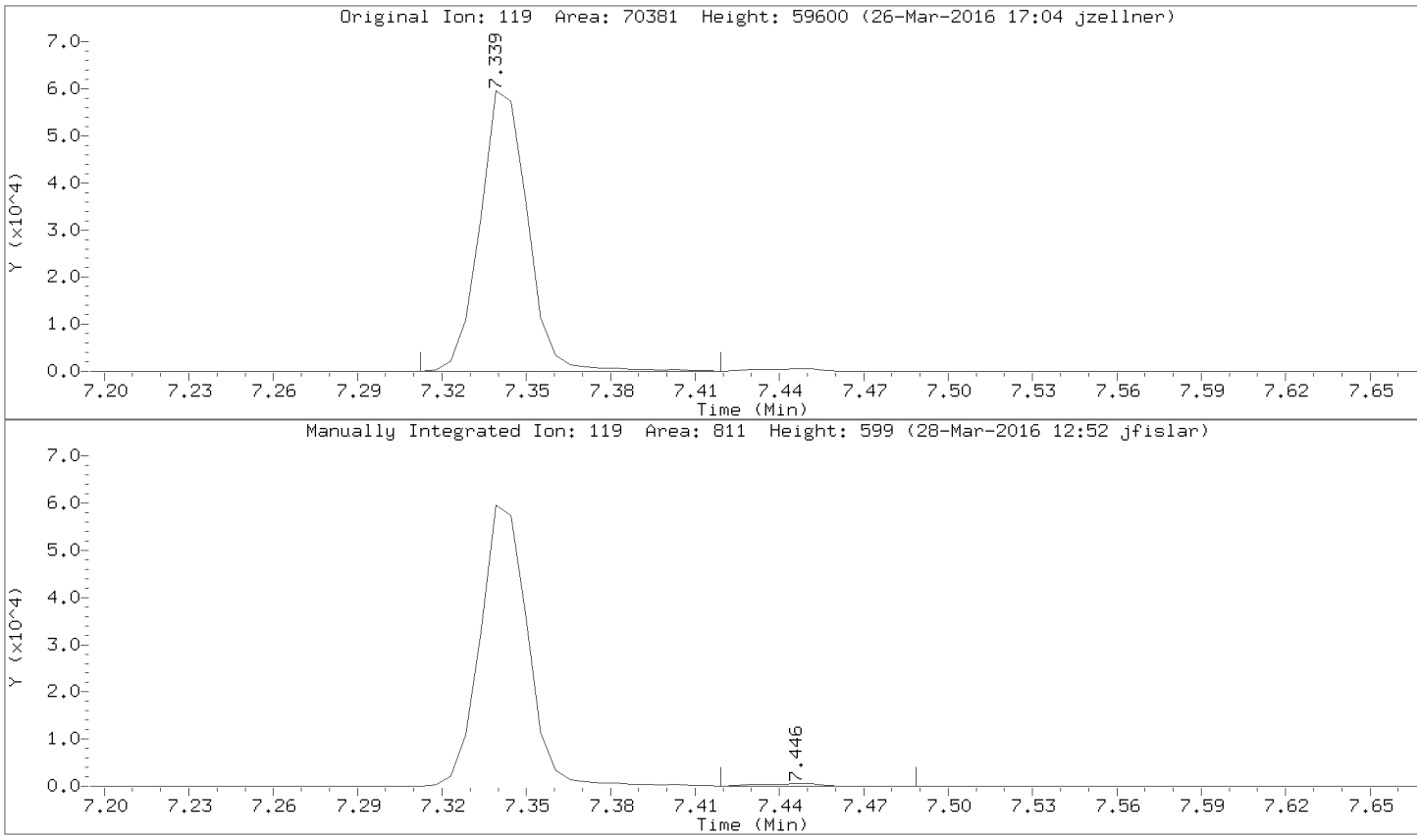






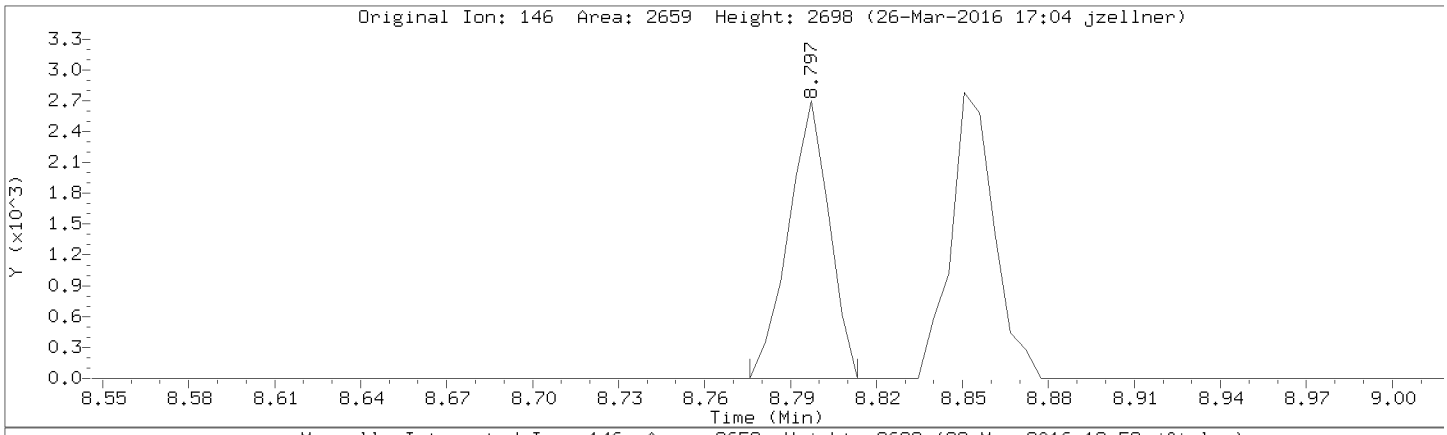


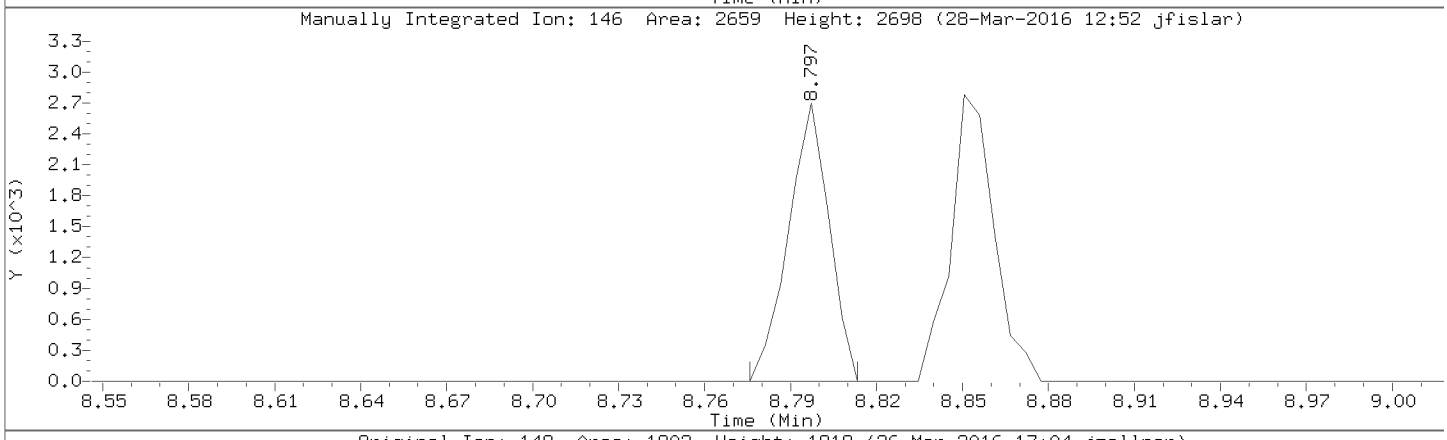
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

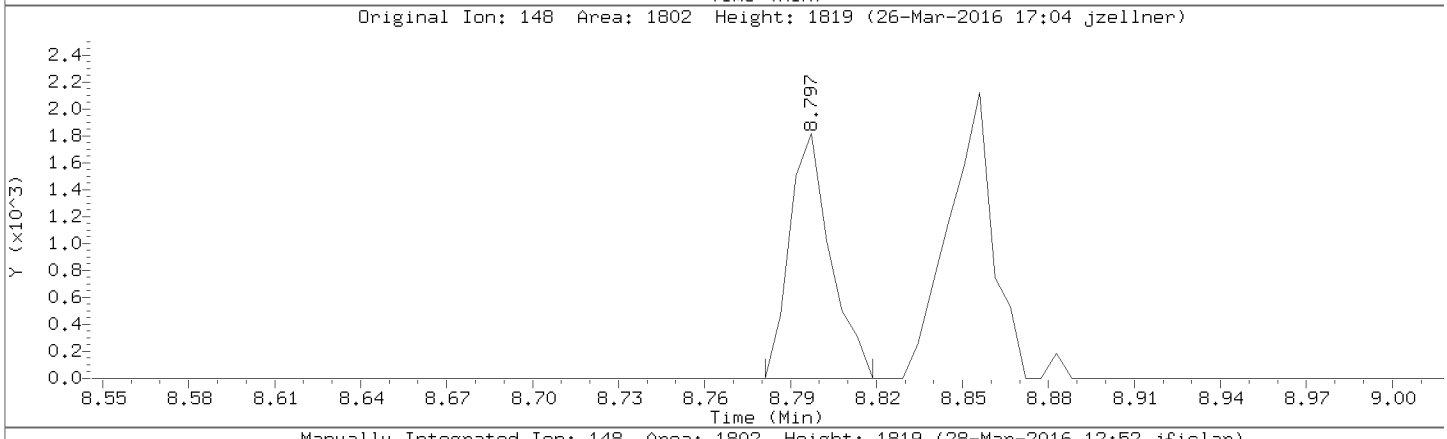


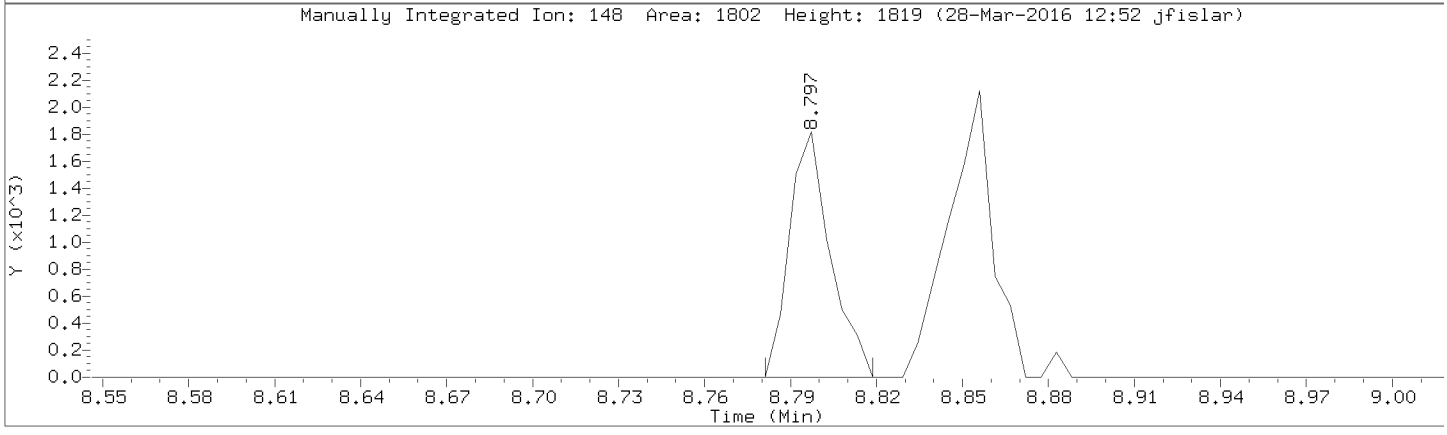
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 1,3-Dichlorobenzene Review Code: WP
CAS Number: 541-73-1

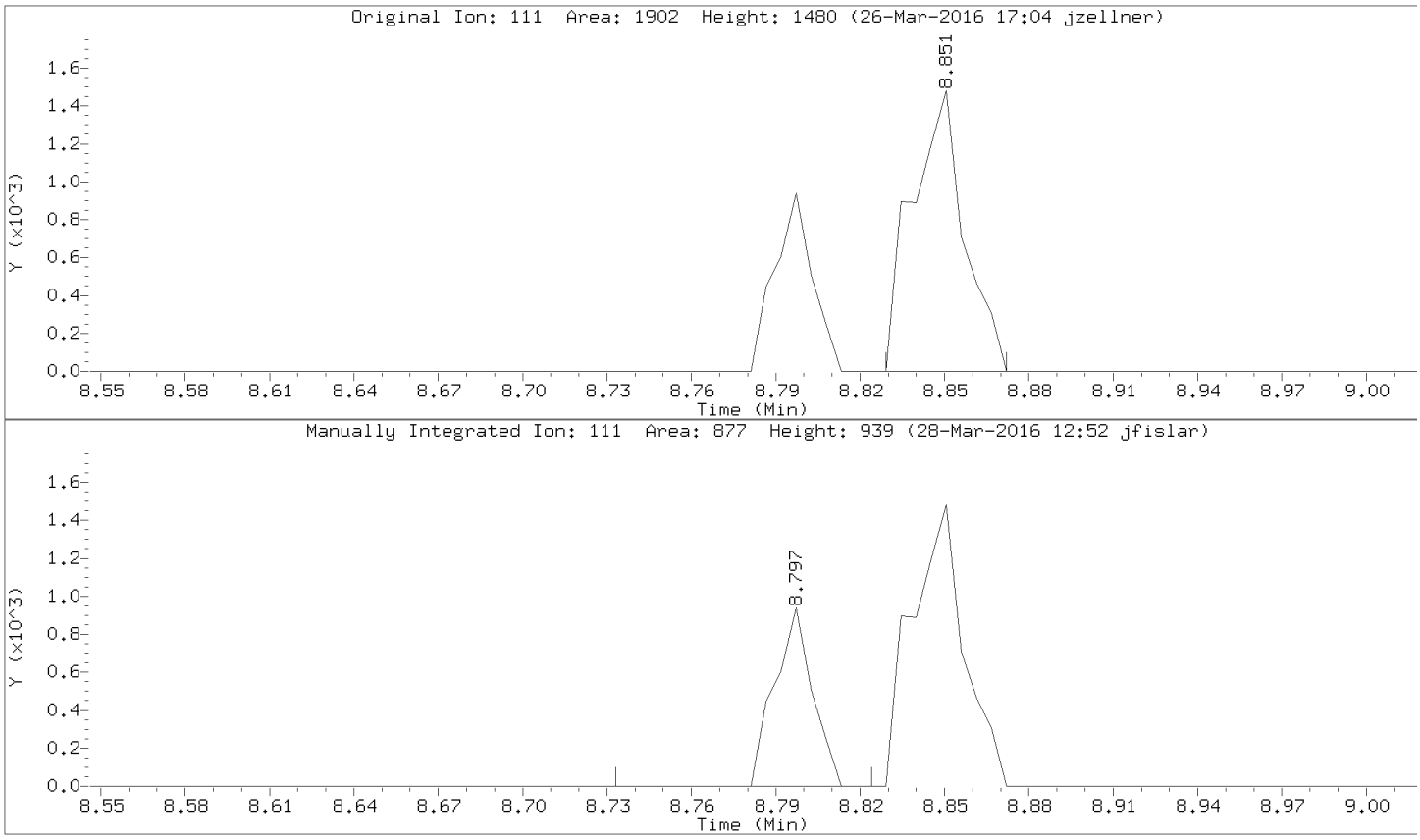






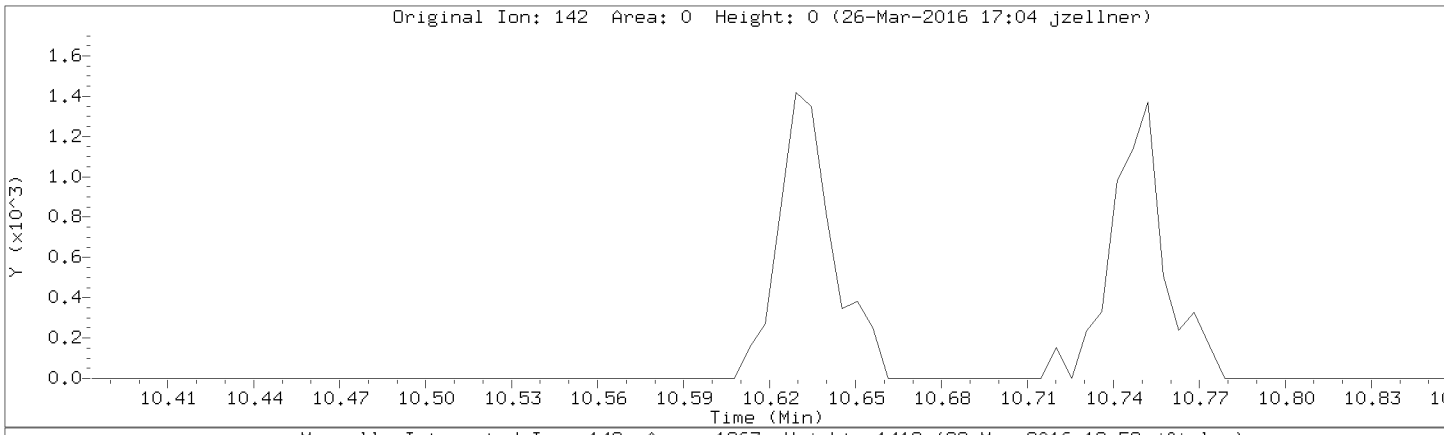


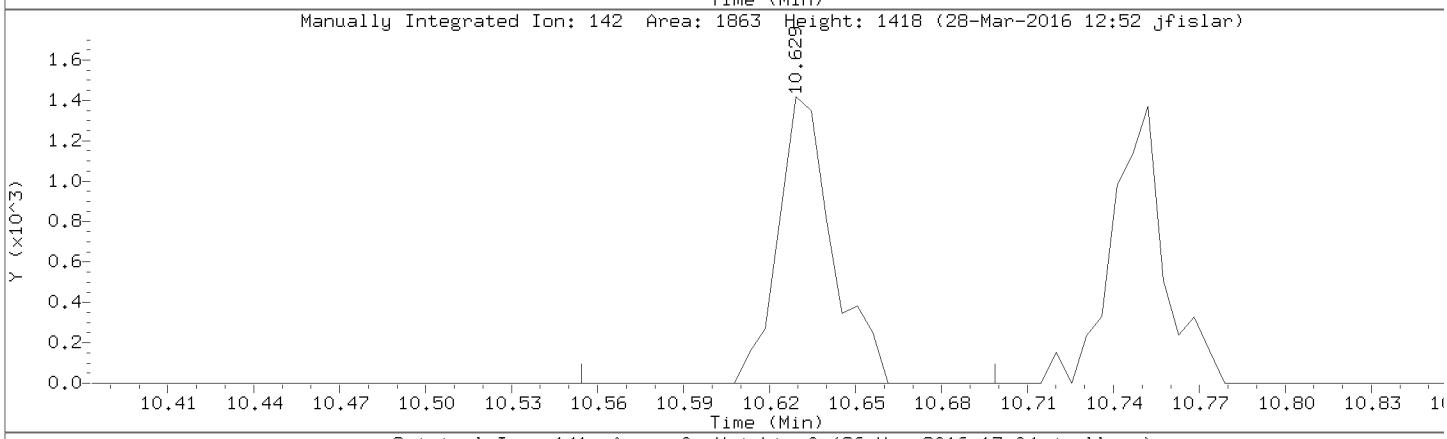
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

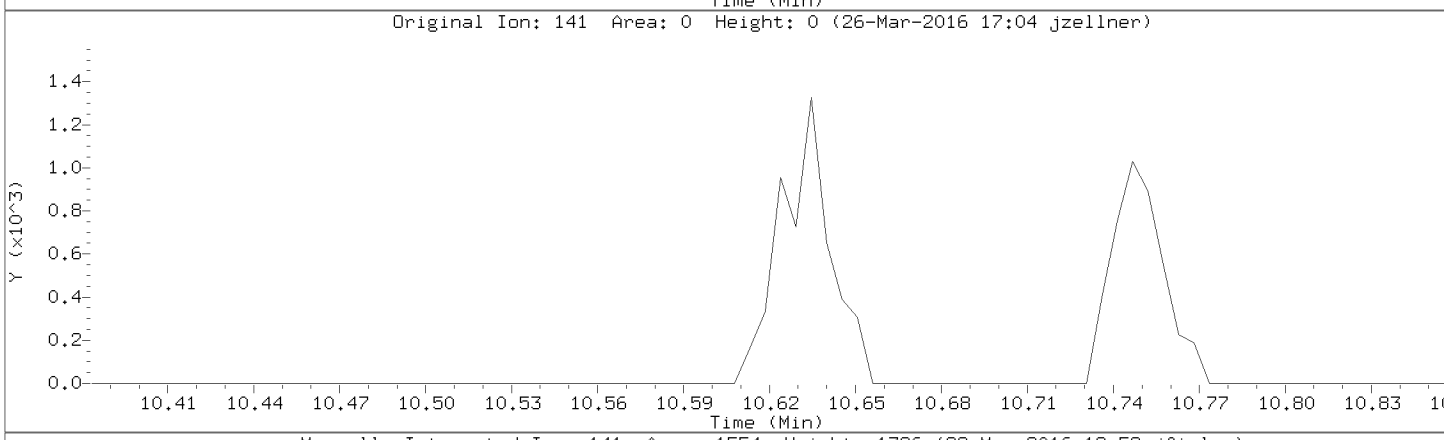


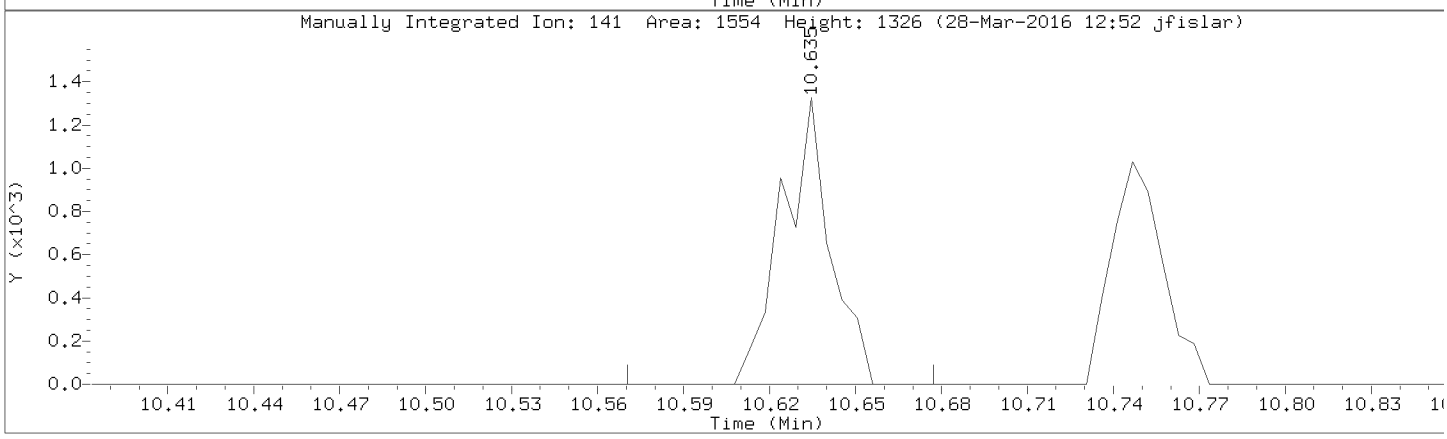
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 2,methyl-naphthalene Review Code: NI
CAS Number:

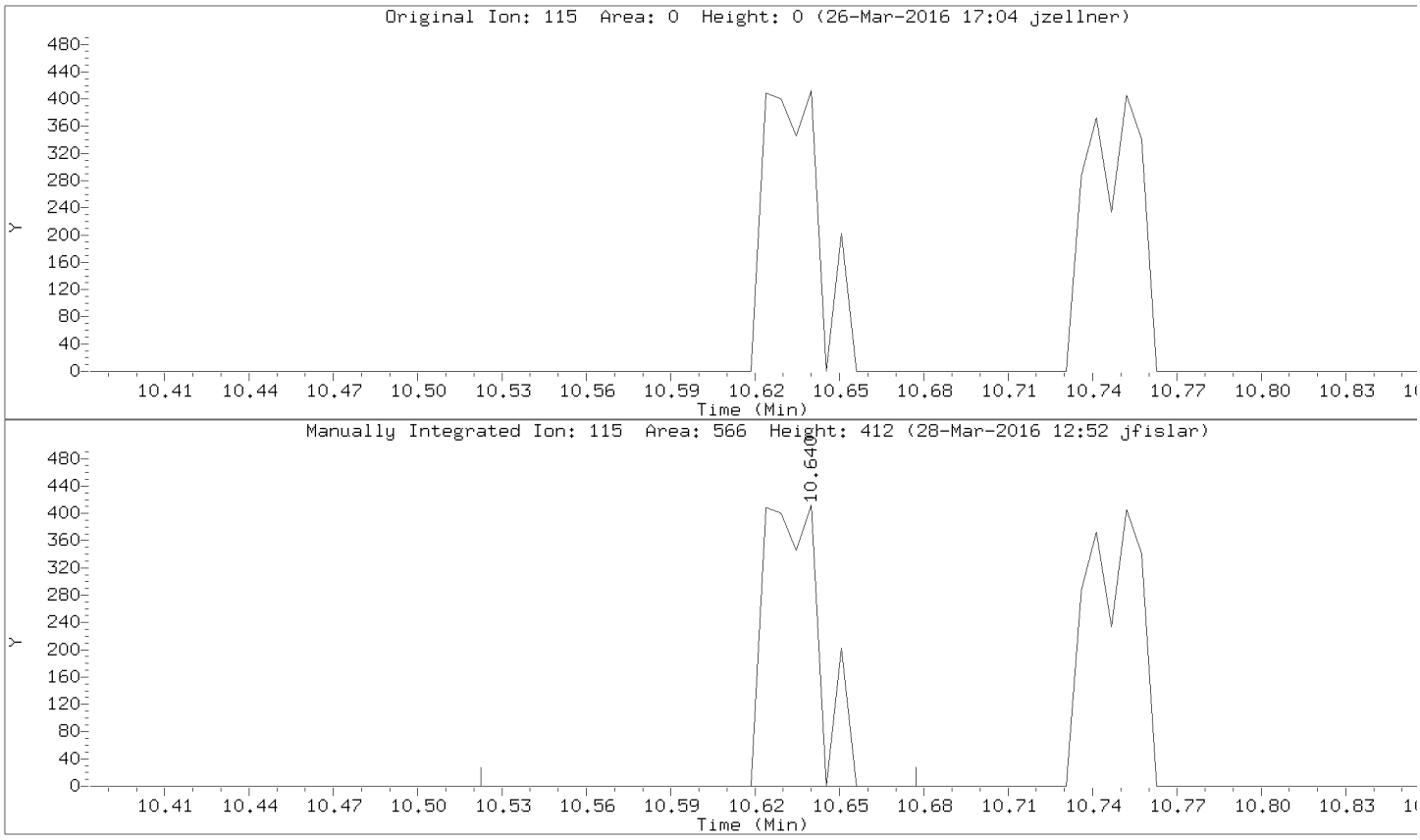






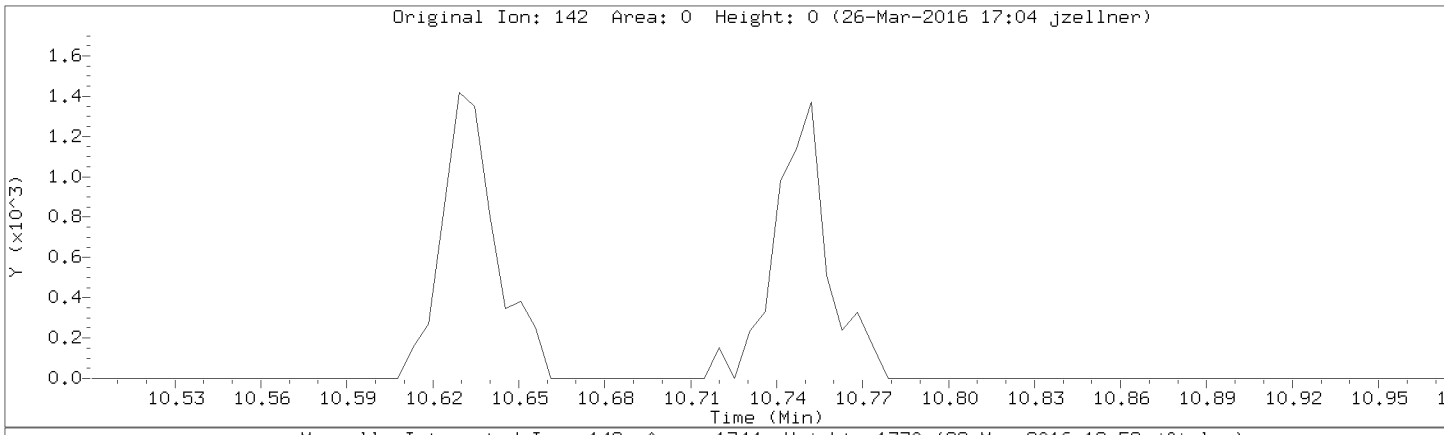


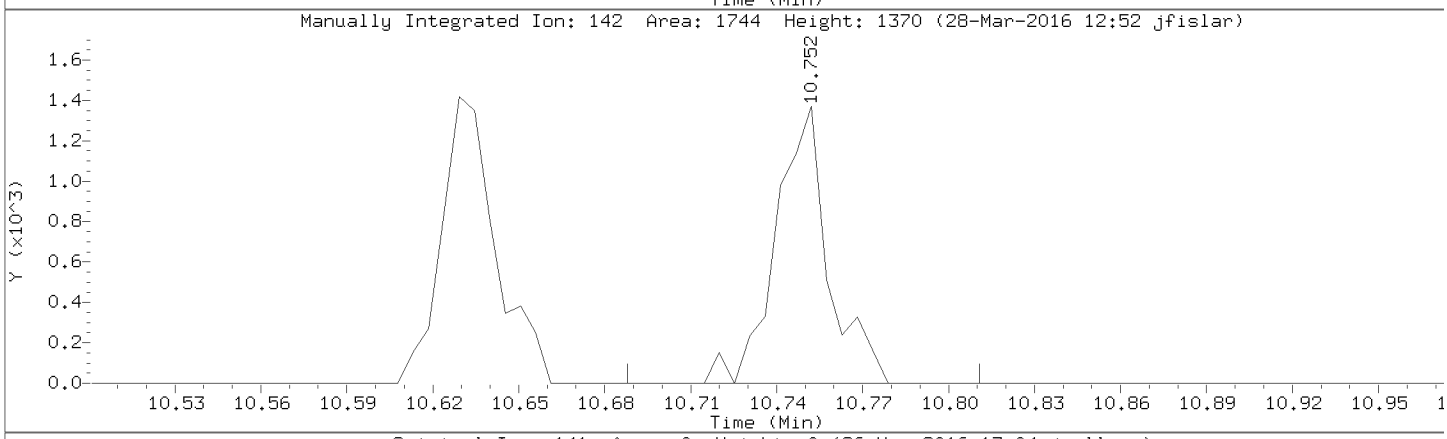
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

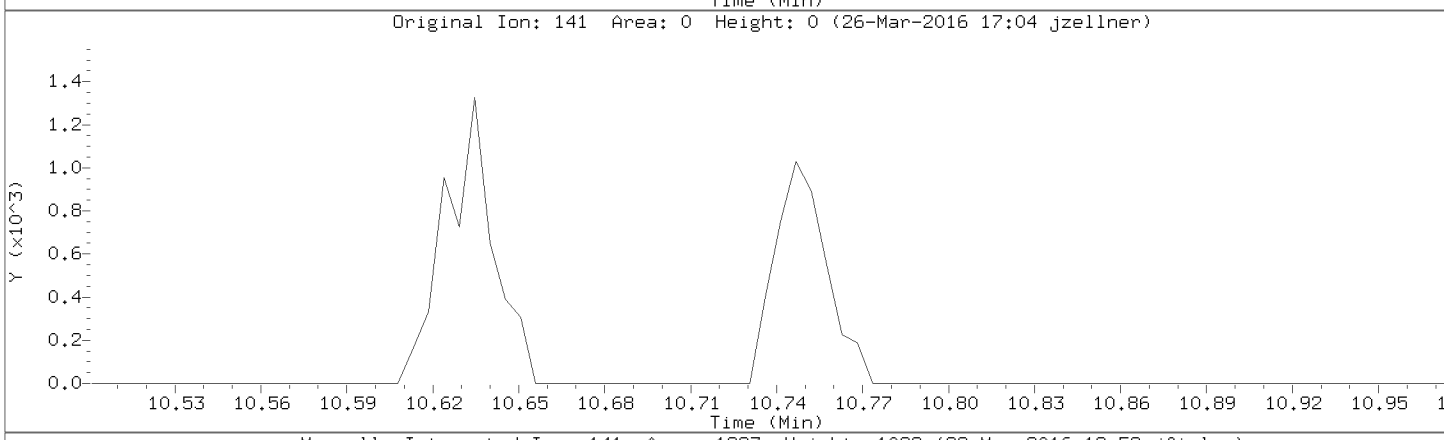


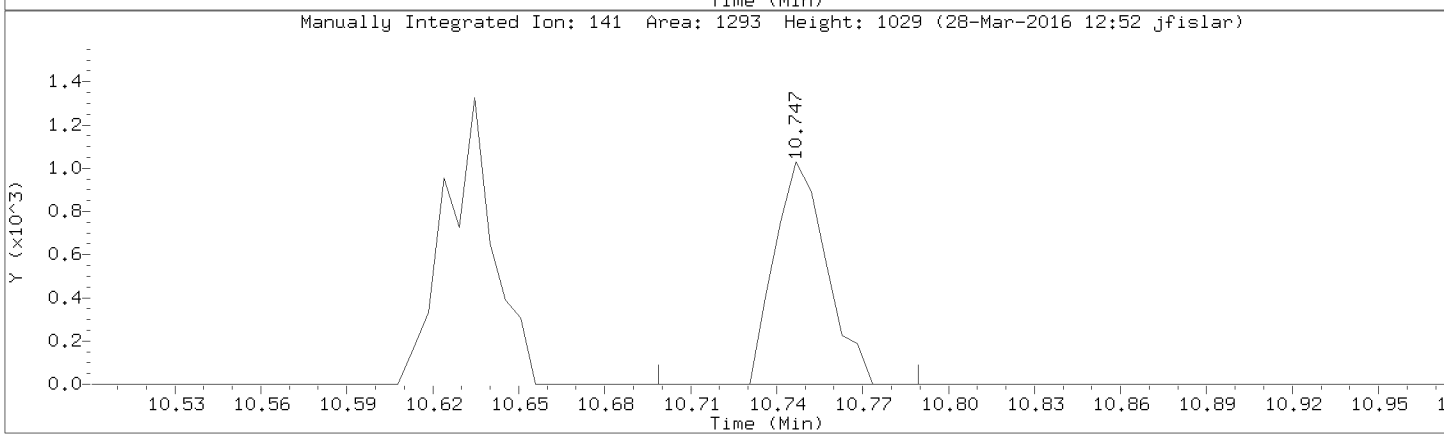
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 1-Methylnaphthalene Review Code: NI
CAS Number: 90-12-0

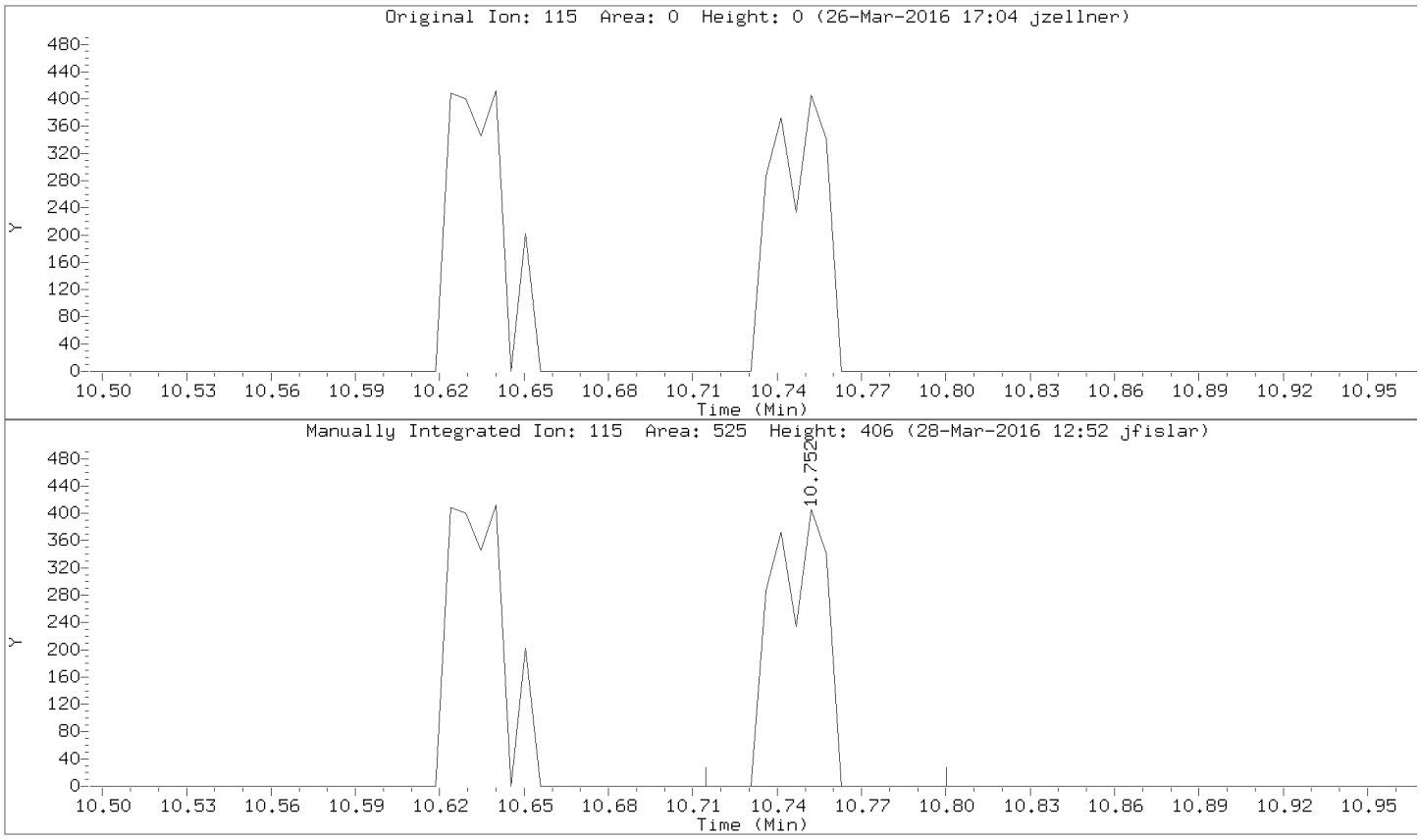








Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a04cal1.d
Injection Date: 25-MAR-2016 15:37
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL1,117886:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a05cal2.d
Lab Smp Id: 8260-CAL2,117887:0
Inj Date : 25-MAR-2016 16:09
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal2,117887:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 16:09   Cal File: a05cal2.d
Als bottle: 11   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1 Dichlorodifluoromethane	85	0.909	0.905	(0.218)	5550	2.00000	2.01(T)	
2 Chloromethane	50	0.994	0.996	(0.239)	9897	2.00000	2.63	
3 Vinyl Chloride	62	1.037	1.039	(0.249)	7409	2.00000	1.99	
4 Bromomethane	94	1.181	1.183	(0.284)	4839	2.00000	2.61	
5 Chloroethane	64	1.229	1.226	(0.295)	5104	2.00000	2.41	
6 Trichlorofluoromethane	101	1.342	1.343	(0.322)	9193	2.00000	1.98	
7 Diethyl ether	74	1.470	1.466	(0.353)	2842	2.00000	1.88(Q)	
8 1,2-dichlorotrifluoroethane	67	1.486	1.482	(0.357)	7191	2.00000	2.06	
9 Acrolein	56	1.539	1.536	(0.369)	14472	40.0000	44.1	
10 1,1,2trichlorotrifluoroethane	101	1.593	1.589	(0.382)	5808	2.00000	1.89	
11 1,1-Dichloroethene	96	1.598	1.594	(0.384)	4905	2.00000	1.87	
12 Acetone	43	1.603	1.605	(0.385)	7049	10.0000	12.8	
13 Iodomethane	142	1.683	1.680	(0.404)	8673	4.00000	3.11	
14 Carbon Disulfide	76	1.732	1.728	(0.416)	18869	2.00000	2.17	
15 Methyl Acetate	43	1.774	1.776	(0.426)	4575	2.00000	3.09(M)	NI
16 allyl chloride	41	1.790	1.787	(0.430)	19478	4.00000	3.79	
17 Acetonitrile	39	1.790	1.787	(0.430)	13922	2.00000	1.96	
18 Methylene Chloride	84	1.870	1.867	(0.449)	5902	2.00000	2.64	
19 Acrylonitrile	53	2.004	2.000	(0.481)	4316	8.00000	8.18	
20 Methyl-tert-butyl ether	73	2.025	2.027	(0.486)	9372	2.00000	1.82	
21 tert-Butyl Alcohol	59	1.913	1.910	(0.459)	646	4.00000	5.48(QM)	NI
22 1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	4682	2.00000	1.94	
23 n-Hexane	57	2.218	2.219	(0.532)	14286	2.00000	2.77	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.335	2.331	(0.560)	25546	8.00000	6.64	
	25 1,1-Dichloroethane	63	2.346	2.342	(0.563)	7839	2.00000	1.82(M)	NI
	26 Chloroprene	53	2.394	2.396	(0.575)	7377	2.00000	1.86	
	27 2-Butanone	43	2.853	2.796	(0.685)	20363	10.0000	24.7(M)	NI
	28 1,2-Dichloroethene (cis)	96	2.821	2.818	(0.677)	4635	2.00000	1.94	
	29 2,2-Dichloropropane	77	2.821	2.823	(0.677)	4362	2.00000	1.64(M)	NI
	30 Propionitrile	54	2.907	2.866	(0.698)	105	2.00000	0.571(QM)	NI
	31 Methacrylonitrile	41	3.019	3.004	(0.724)	2003	2.00000	1.77(QM)	NI
	32 Bromochloromethane	49	3.045	3.053	(0.731)	3470	2.00000	2.02	
	33 Tetrahydrofuran	42	3.077	3.069	(0.739)	1620	2.00000	3.16(QM)	NI
	34 Chloroform	83	3.158	3.159	(0.758)	7638	2.00000	2.00	
$	35 Dibromofluoromethane (S)	113	3.329	3.336	(0.799)	100338	50.0000	50.9	
	36 1,1,1-Trichloroethane	97	3.329	3.330	(0.799)	5781	2.00000	1.76	
	37 Cyclohexane	56	3.419	3.421	(0.821)	8550	2.00000	1.90	
	38 n-Butyl chloride	56	3.489	3.485	(0.837)	7706	2.00000	1.51(M)	NI
	39 Carbon Tetrachloride	117	3.526	3.517	(0.846)	4743	2.00000	1.71	
	40 1,1-Dichloropropene	75	3.521	3.523	(0.845)	5814	2.00000	1.80	
	41 Benzene	78	3.761	3.768	(0.903)	16922	2.00000	1.87	
	42 1,2-Dichloroethane	62	3.863	3.854	(0.927)	5430	2.00000	2.19(M)	NI
	43 2,2,4-Trimethylpentane	57	3.948	3.944	(0.947)	16821	2.00000	1.67	
	44 Isobutyl alcohol	43	3.959	3.950	(0.950)	4059	2.00000	1.93(M)	NI
*	45 Fluorobenzene (IS)	96	4.167	4.169	(1.000)	437110	50.0000		
	46 Trichloroethene	95	4.621	4.617	(1.109)	4460	2.00000	2.01	
	47 Methylcyclohexane	55	4.888	4.885	(1.173)	5700	2.00000	1.75	
	48 1,2-Dichloropropane	63	4.920	4.922	(1.181)	3878	2.00000	1.87(M)	NI
	49 Dibromomethane	93	5.027	5.018	(1.206)	1866	2.00000	1.98	
	50 1,4-Dioxane	88	5.043	5.029	(1.210)	635	40.0000	49.2(M)	NI
	51 Methyl methacrylate	69	5.059	5.039	(1.214)	1325	2.00000	1.43(QM)	NI
	52 Bromodichloromethane	83	5.251	5.248	(1.260)	4842	2.00000	2.00(M)	NI
	53 2-Chloroethyl vinyl ether	63	5.609	5.600	(0.764)	2582	4.00000	3.54(M)	NI
	54 cis-1,3-Dichloropropene	75	5.748	5.744	(0.783)	4737	2.00000	1.81	
	55 4-Methyl-2-Pentanone	43	5.924	5.921	(0.807)	13641	10.0000	9.90	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	367379	50.0000	50.2	
	57 Toluene	91	6.095	6.092	(0.830)	19723	2.00000	2.10	
	58 trans-1,3-Dichloropropene	75	6.389	6.380	(0.870)	2742	2.00000	1.48(M)	NI
	59 Ethyl Methacrylate	69	6.469	6.465	(0.881)	2192	2.00000	1.36(M)	NI
	60 1,1,2-Trichloroethane	83	6.565	6.562	(0.894)	2394	2.00000	2.16	
	61 Tetrachloroethene	166	6.619	6.615	(0.901)	3500	2.00000	1.88	
	62 1,3-Dichloropropane	76	6.704	6.706	(0.913)	4740	2.00000	2.03	
	63 2-Hexanone	43	6.779	6.775	(0.923)	8361	10.0000	9.99(M)	NI
	64 Dibromochloromethane	129	6.891	6.887	(0.938)	2432	2.00000	1.92	
	65 1,2-Dibromoethane	107	6.976	6.973	(0.950)	2303	2.00000	2.11	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	213144	50.0000		
	67 Chlorobenzene	112	7.366	7.368	(1.003)	8848	2.00000	2.04	
	68 1,1,1,2-Tetrachloroethane	131	7.441	7.443	(1.013)	2457	2.00000	1.85	
	69 Ethylbenzene	106	7.452	7.448	(1.015)	4589	2.00000	1.87	
	70 m&p-Xylene	106	7.548	7.544	(1.028)	10839	4.00000	3.62	
	71 o-Xylene	106	7.810	7.806	(1.063)	5107	2.00000	1.92	
	72 Styrene	104	7.826	7.827	(1.065)	7670	2.00000	1.77	
	73 Bromoform	173	7.949	7.940	(0.899)	988	2.00000	1.97(M)	NI
	74 Isopropylbenzene	105	8.055	8.052	(1.097)	11926	2.00000	1.73	
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	84835	50.0000	48.2	
	76 Bromobenzene	77	8.242	8.244	(1.122)	5227	2.00000	2.07	
	77 1,1,2,2-Tetrachloroethane	83	8.258	8.255	(0.934)	2665	2.00000	2.29	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.274	8.276	(1.127)	688	2.00000	2.15(QM)	NI
79	1,2,3-Trichloropropane	110	8.285	8.287	(0.937)	679	2.00000	2.11(QM)	NI
80	n-Propylbenzene	91	8.312	8.308	(0.940)	15266	2.00000	1.94	
81	2-Chlorotoluene	91	8.360	8.362	(0.946)	8618	2.00000	2.00	
82	1,3,5-Trimethylbenzene	105	8.419	8.420	(0.952)	8583	2.00000	1.77	
83	4-Chlorotoluene	126	8.435	8.436	(0.954)	3116	2.00000	2.23	
84	tert-Butylbenzene	119	8.605	8.602	(0.973)	10432	2.00000	1.97	
85	1,2,4-Trimethylbenzene	105	8.638	8.634	(0.977)	8932	2.00000	1.88	
86	sec-Butylbenzene	105	8.728	8.725	(0.987)	11283	2.00000	1.78	
87	1,3-Dichlorobenzene	146	8.798	8.794	(0.995)	4682	2.00000	1.96	
88	p-Isopropyltoluene	119	8.814	8.816	(0.997)	9479	2.00000	1.84	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	73068	50.0000		
90	1,4-Dichlorobenzene	146	8.851	8.853	(1.001)	4998	2.00000	2.03	
91	n-Butylbenzene	91	9.033	9.029	(1.022)	8715	2.00000	1.73	
92	1,2-Dichlorobenzene	146	9.049	9.045	(1.024)	4567	2.00000	2.14	
93	1,2,4-Trichlorobenzene	180	9.861	9.862	(1.115)	2407	2.00000	1.84(M)	NI
94	1,2-Dibromo-3-chloropropane	155	9.455	9.456	(1.069)	190	2.00000	1.98(QM)	NI
95	Hexachlorobutadiene	225	9.925	9.926	(1.123)	1321	2.00000	1.74(QM)	NI
96	Naphthalene	128	10.000	10.001	(1.131)	5247	2.00000	1.86	
97	1,2,3-Trichlorobenzene	180	10.117	10.113	(1.144)	2481	2.00000	2.02	
98	2,methyl-naphthalene	142	10.635	10.632	(1.203)	3343	2.00000	1.83(M)	WP
99	1-Methylnaphthalene	142	10.747	10.749	(1.216)	3132	2.00000	1.96	

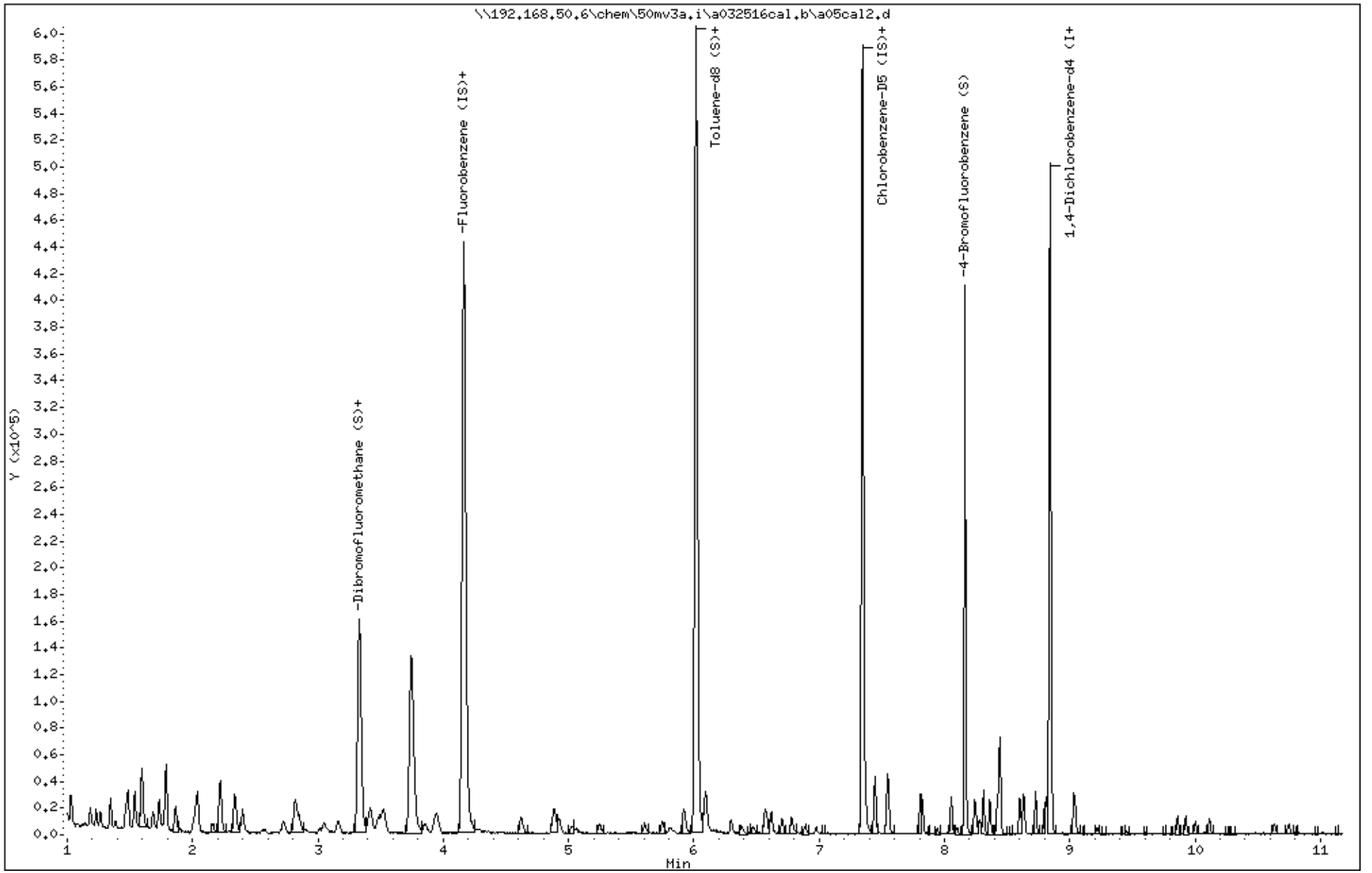
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

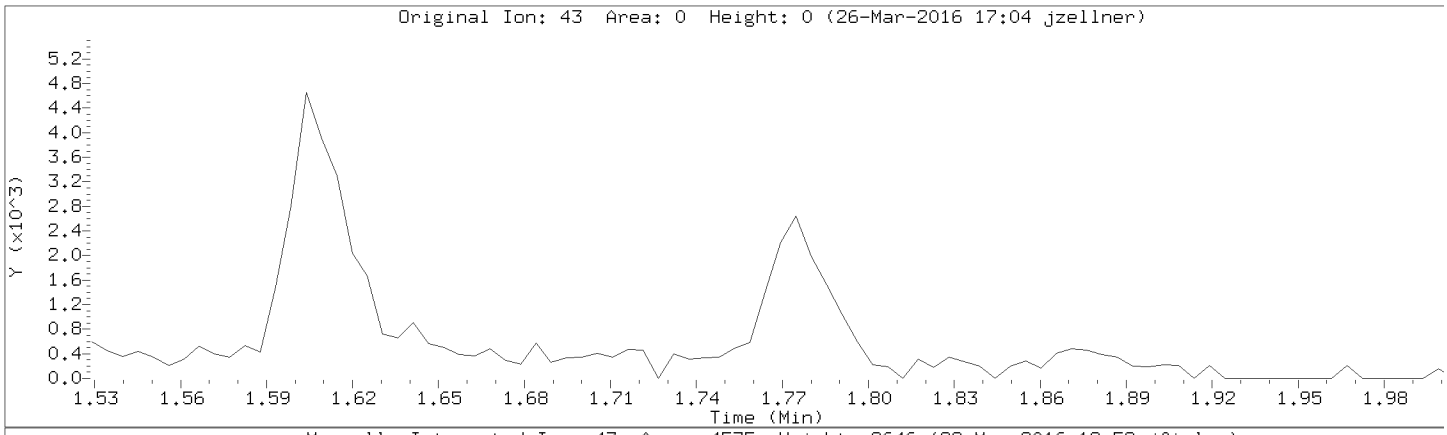
:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

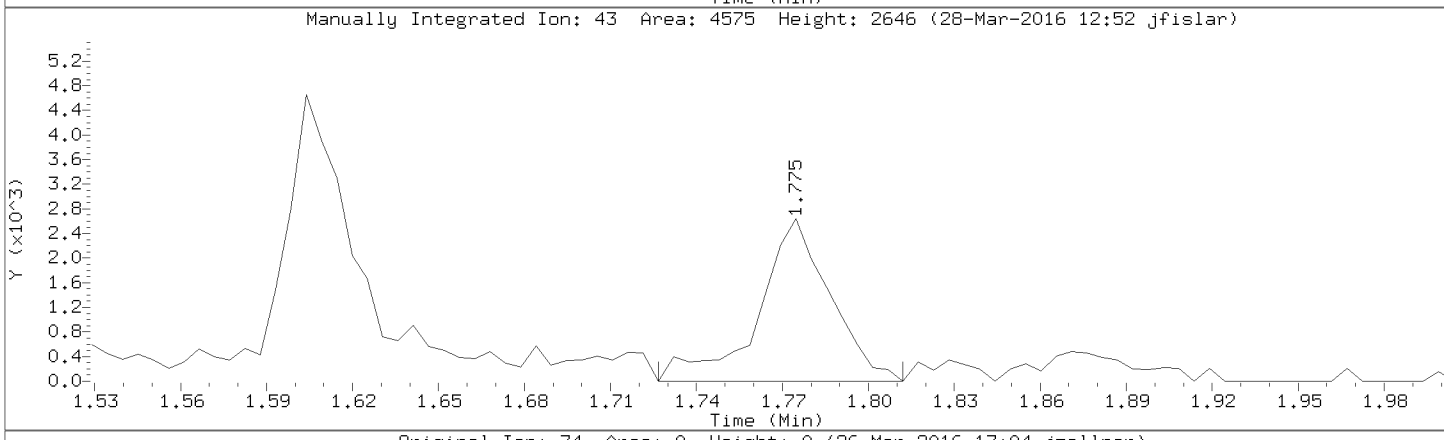
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a05cal2.d
Date : 25-MAR-2016 16:09
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL2,117887:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

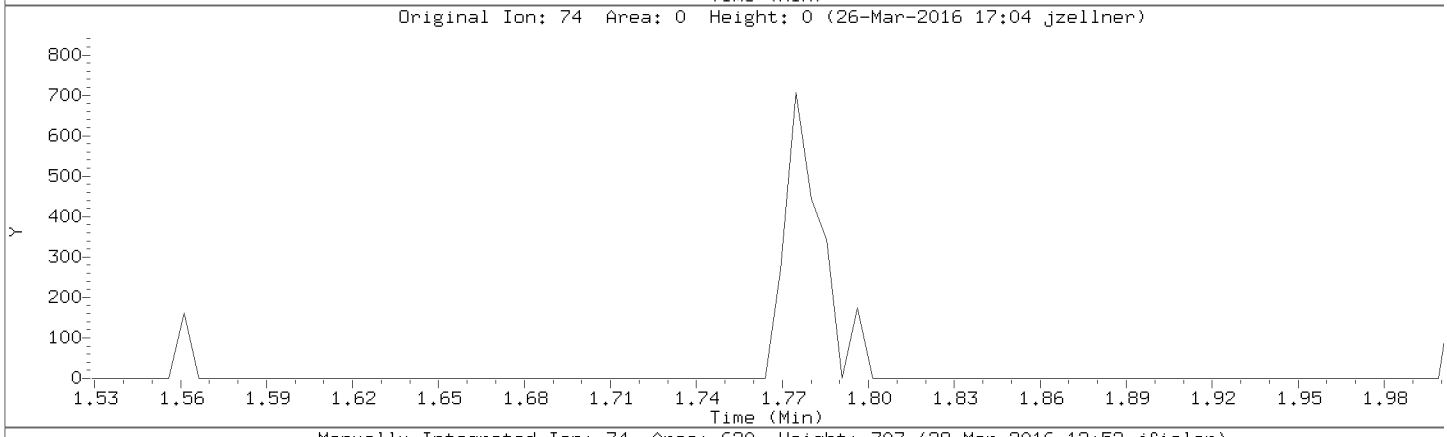


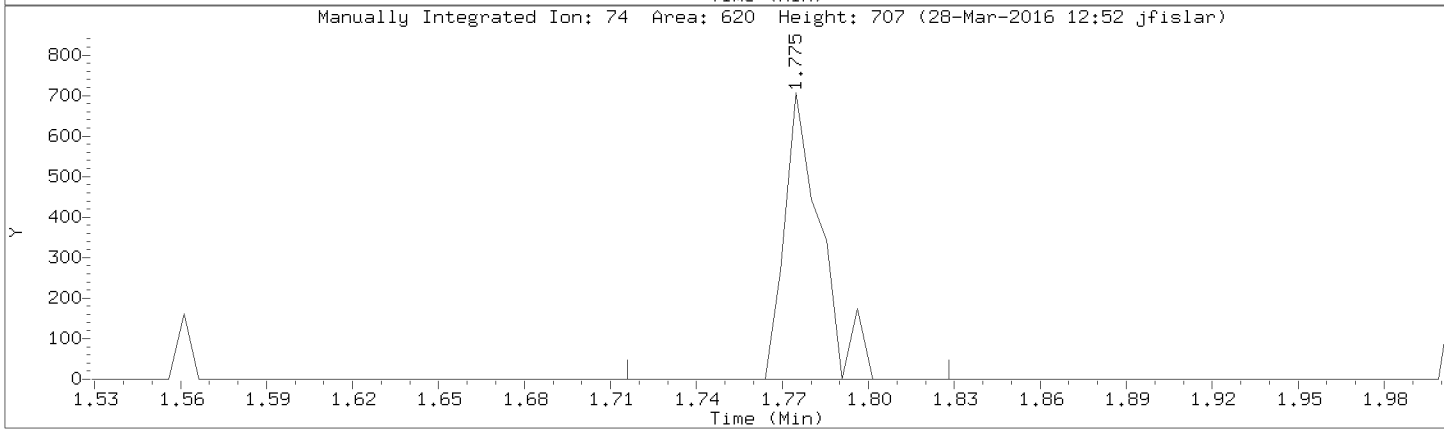
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Methyl Acetate Review Code: NI
CAS Number: 79-20-9



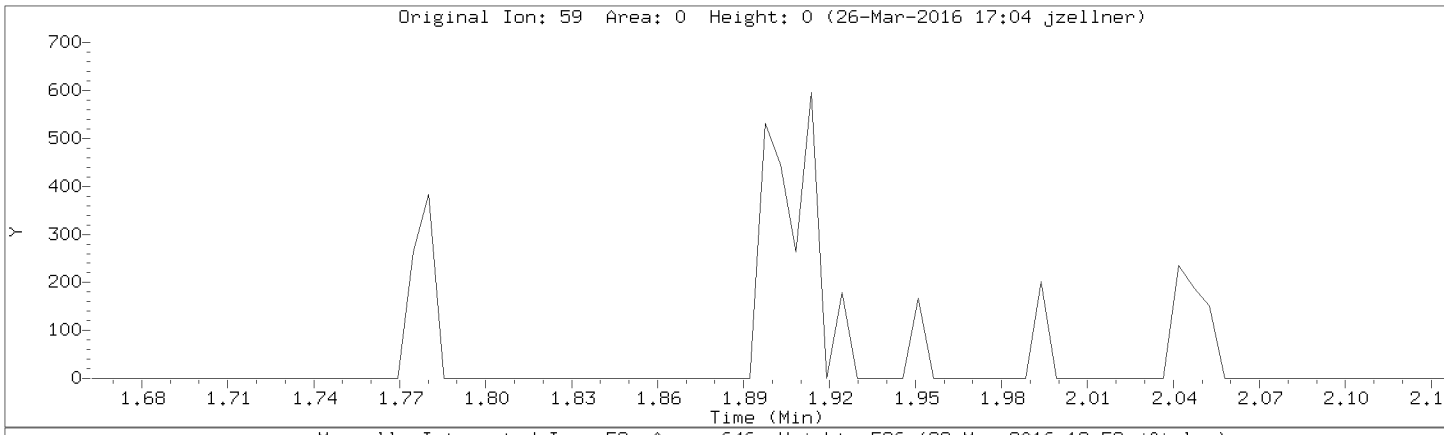


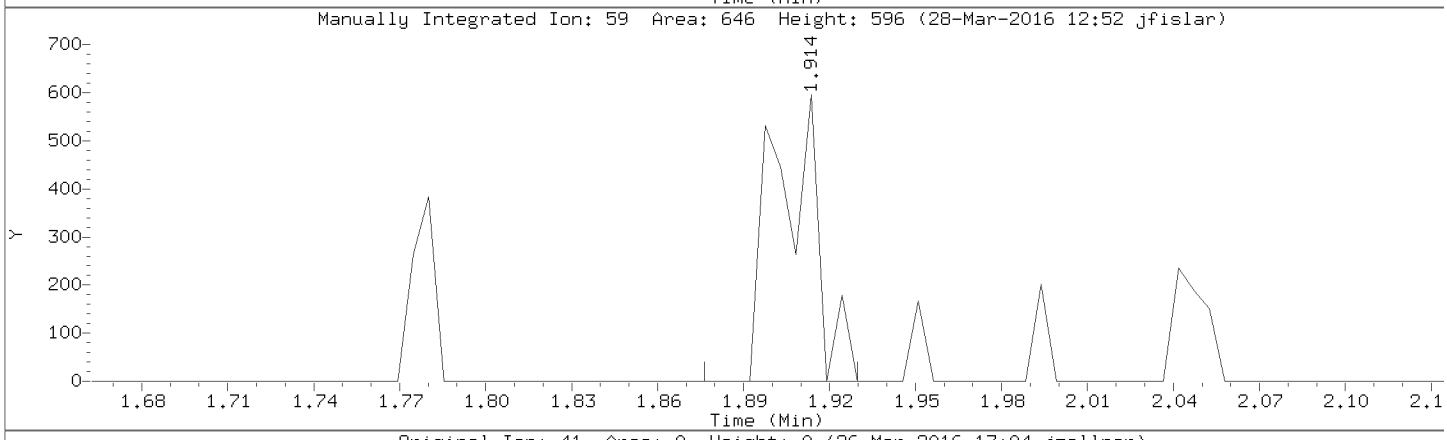


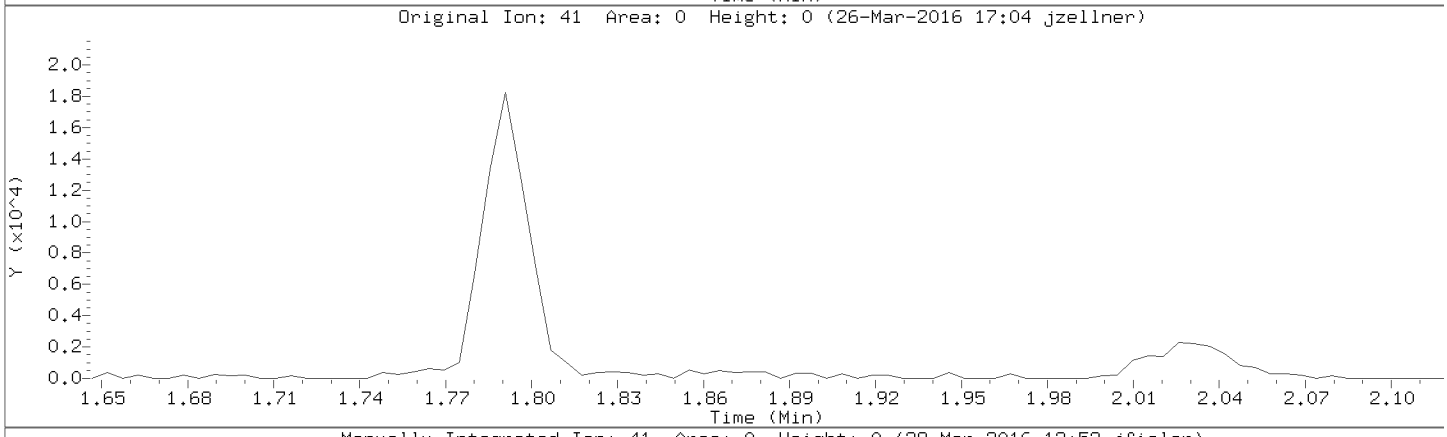


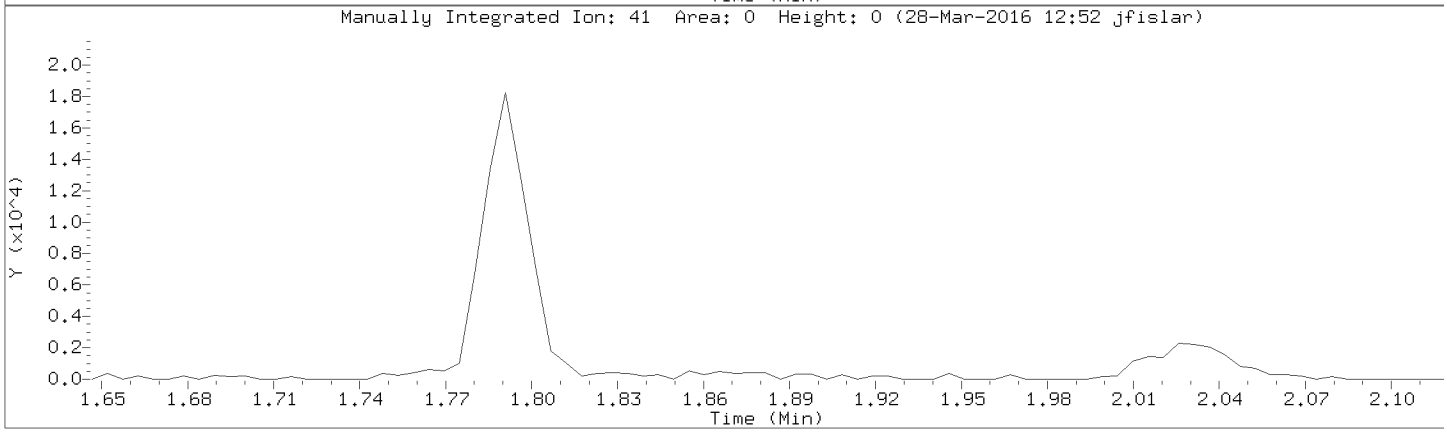
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0



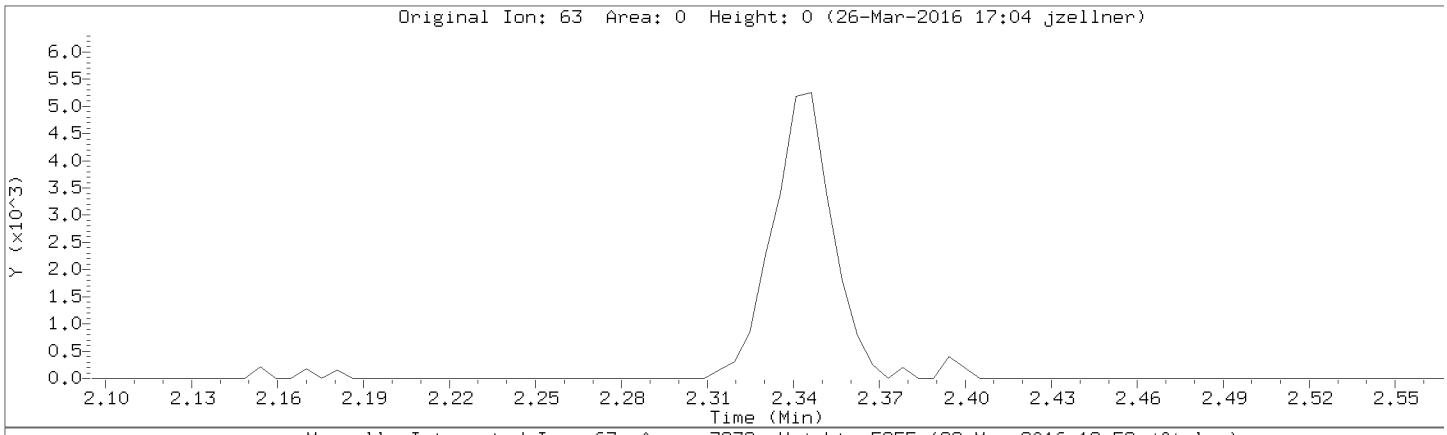


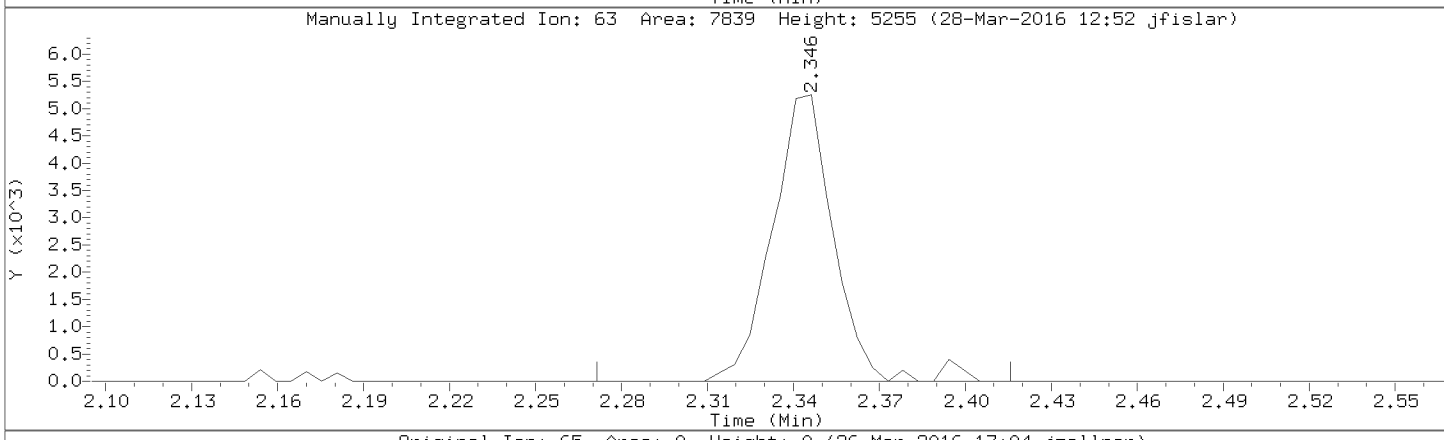


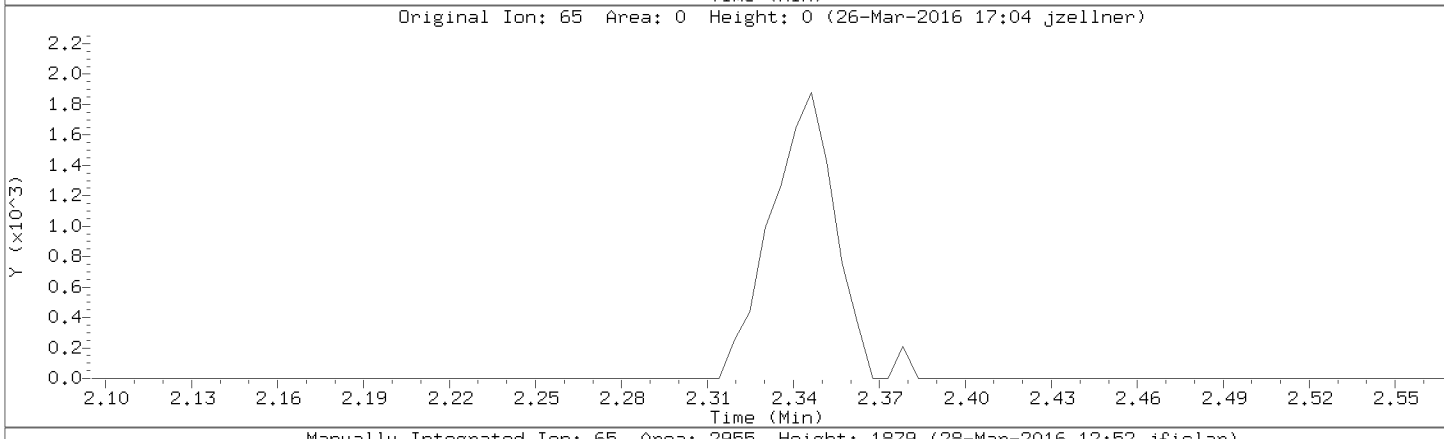


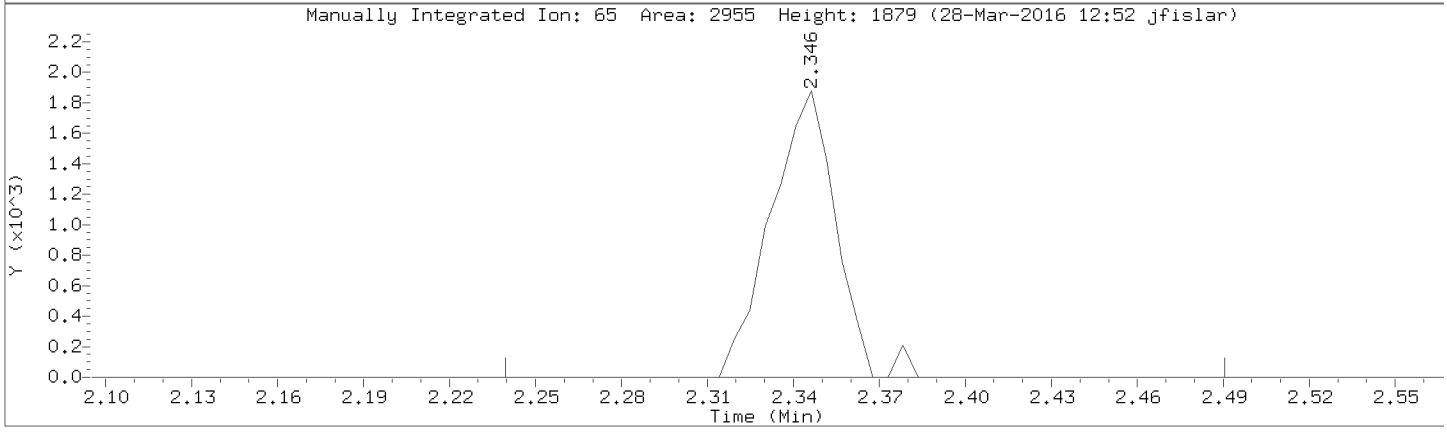
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3

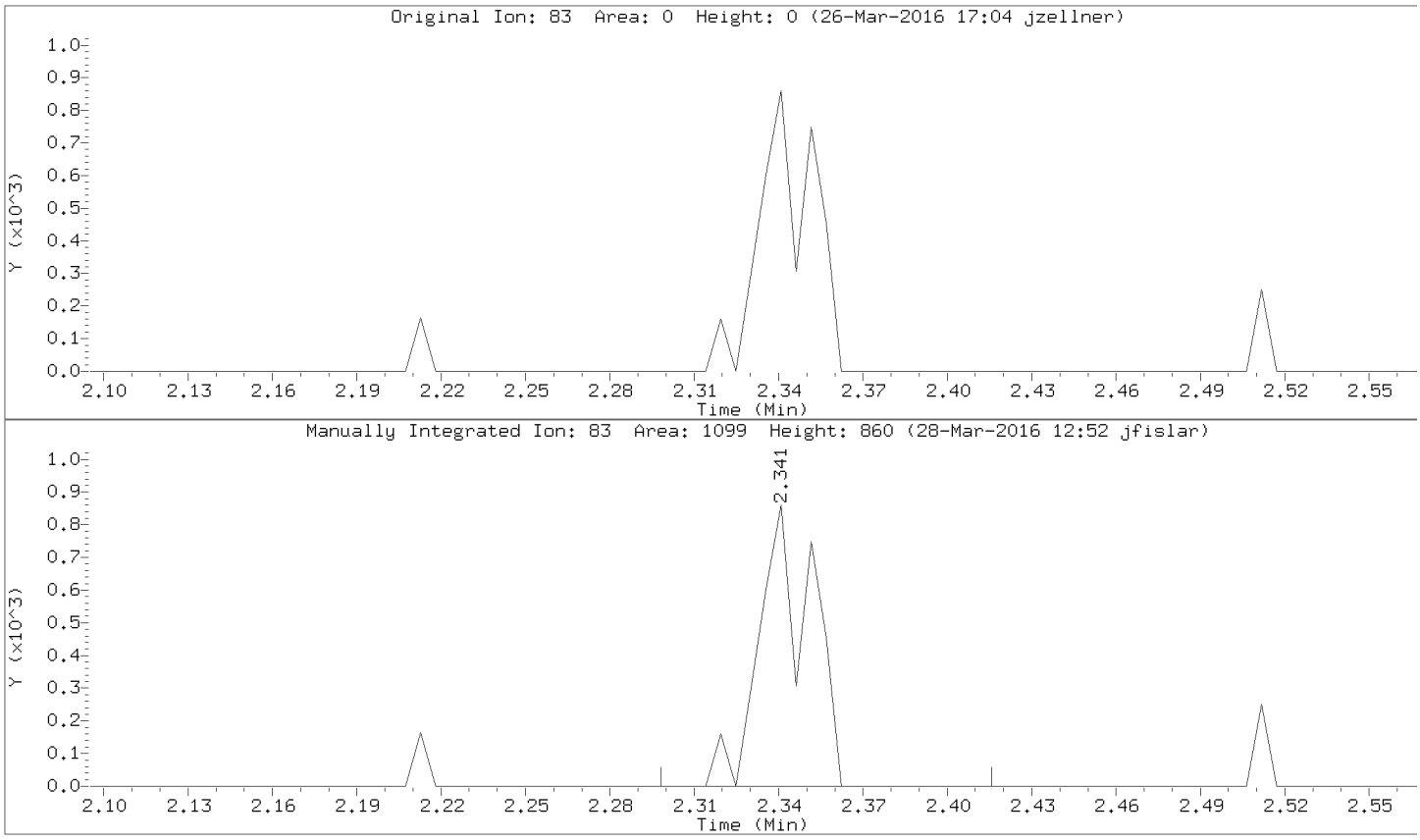






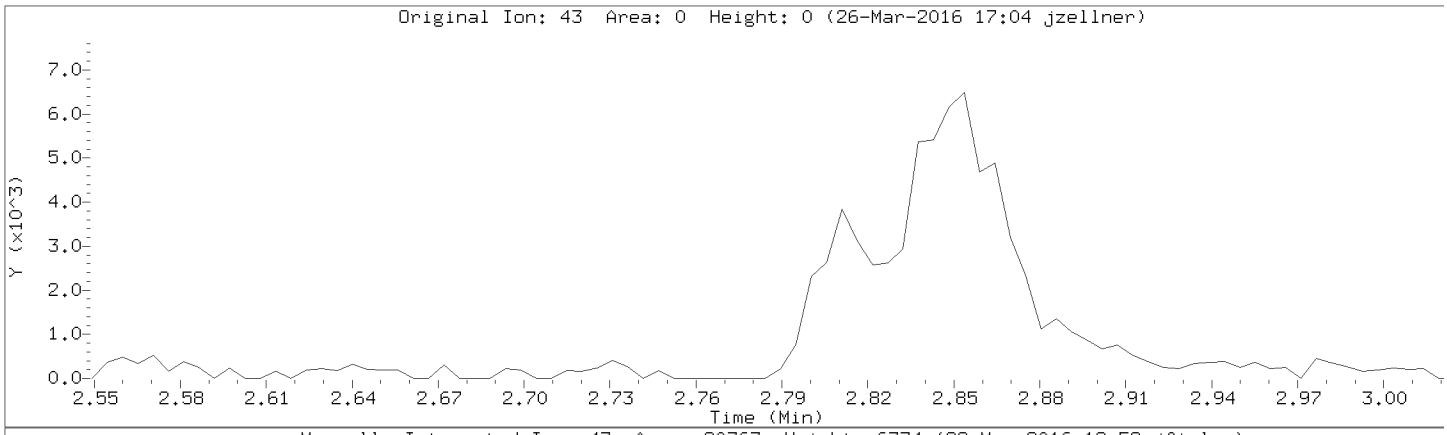


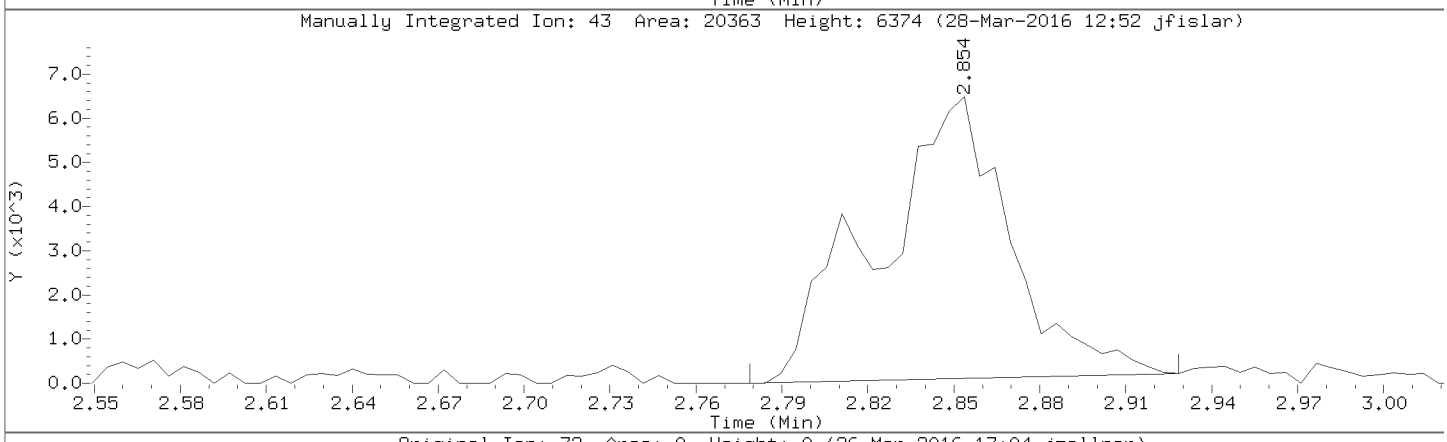
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

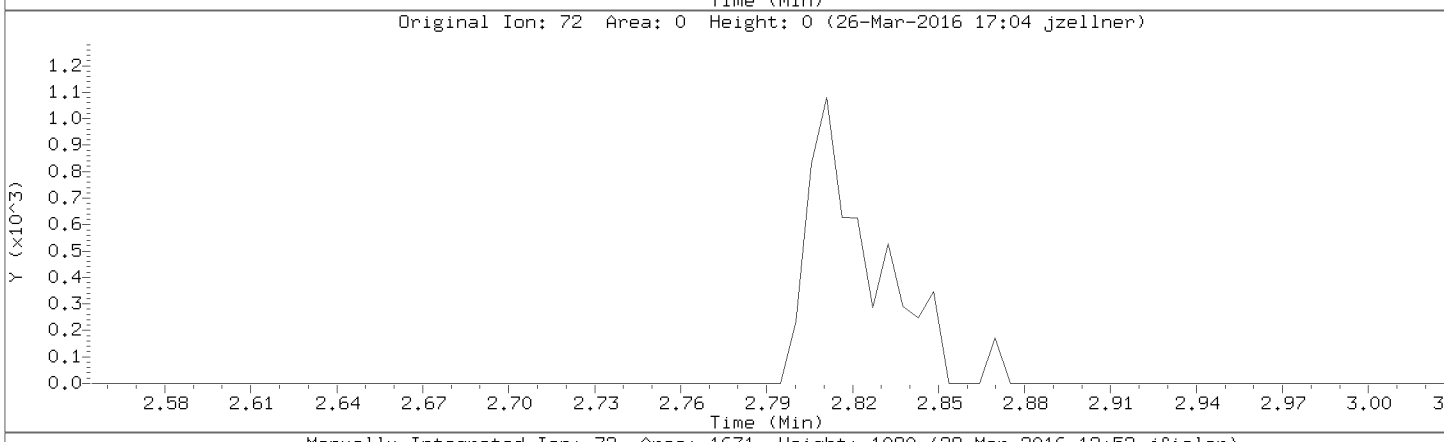


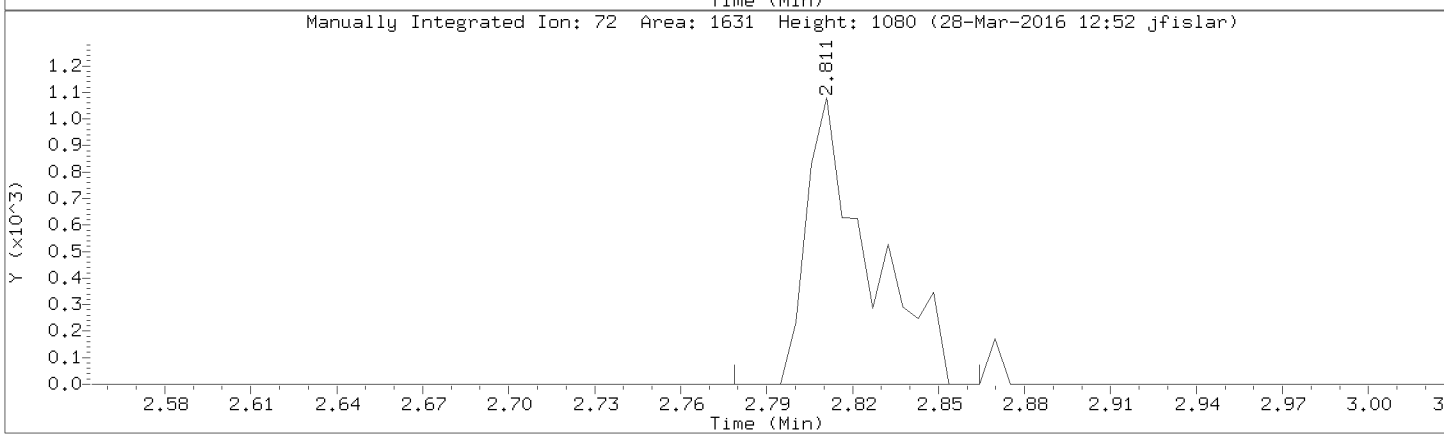
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2-Butanone Review Code: NI
CAS Number: 78-93-3

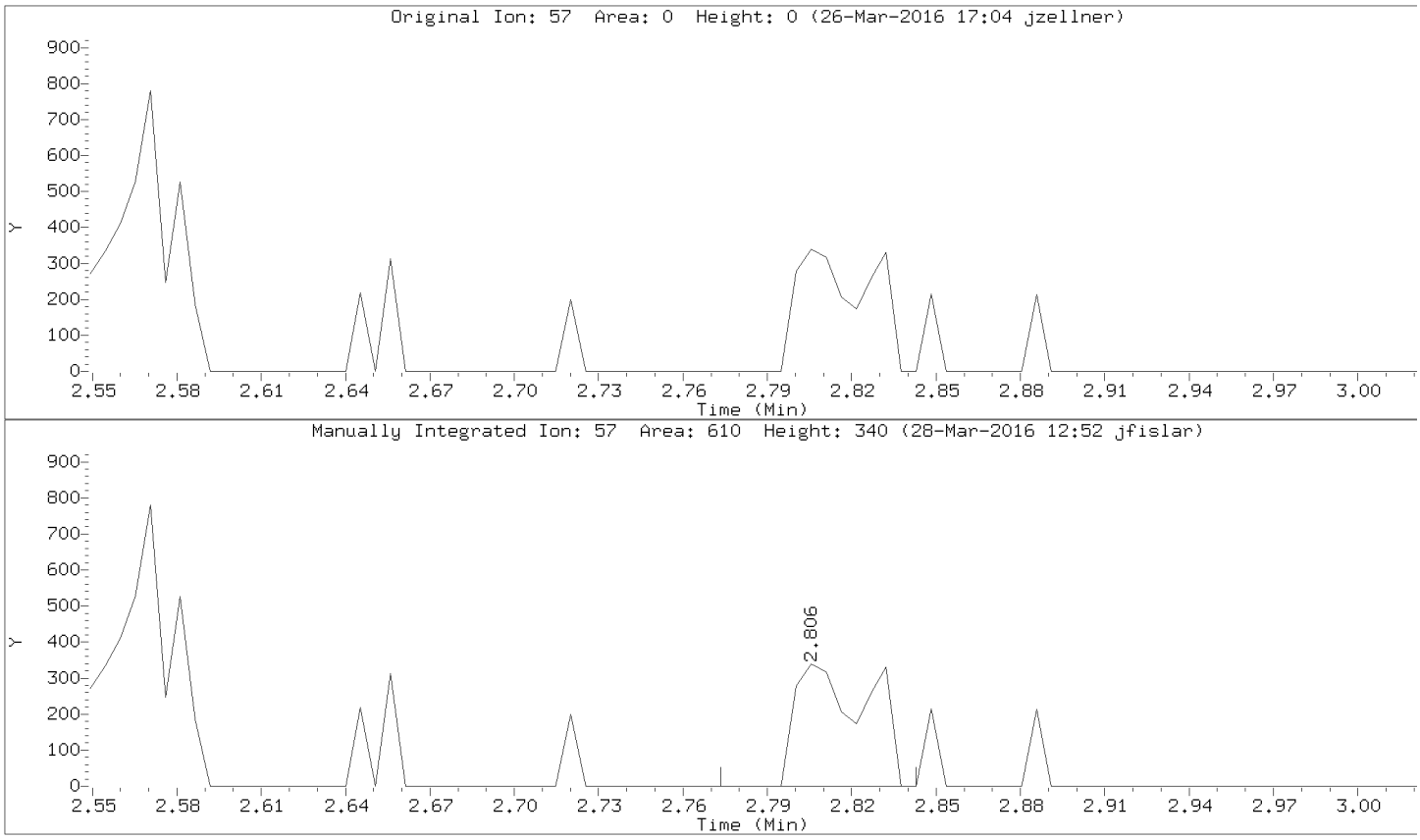






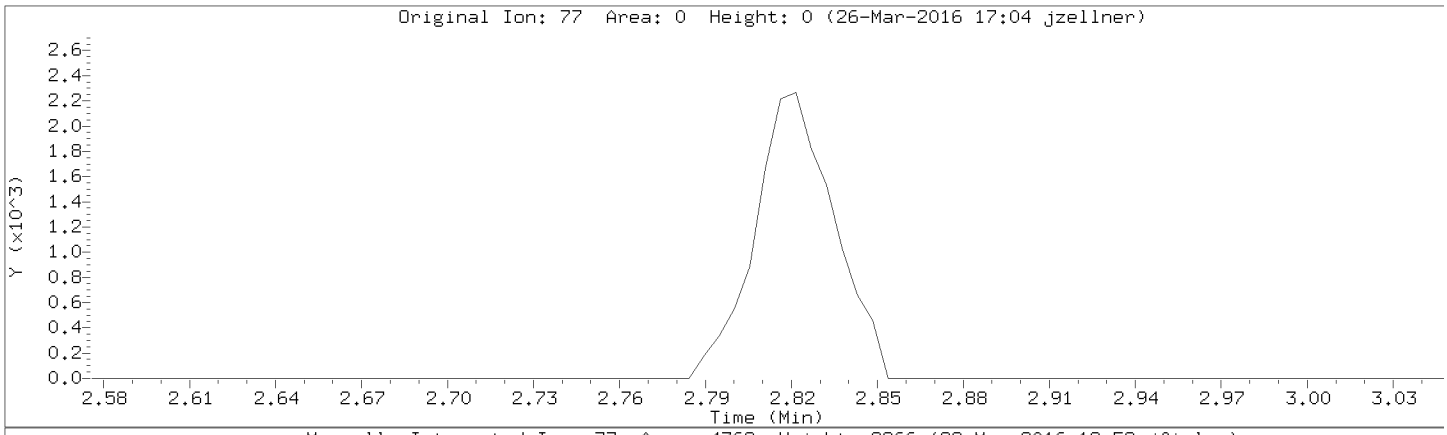


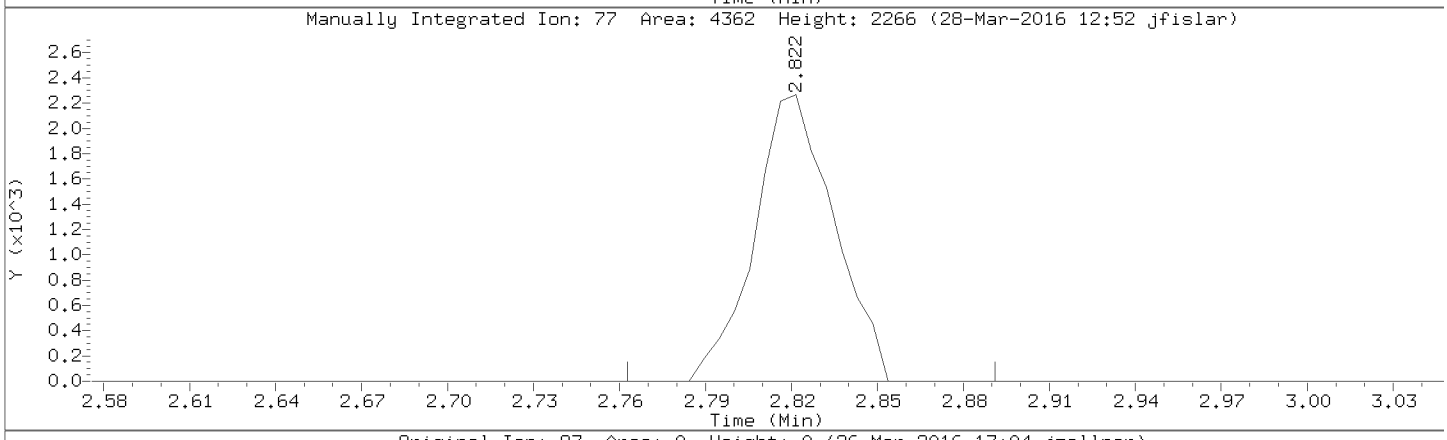
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

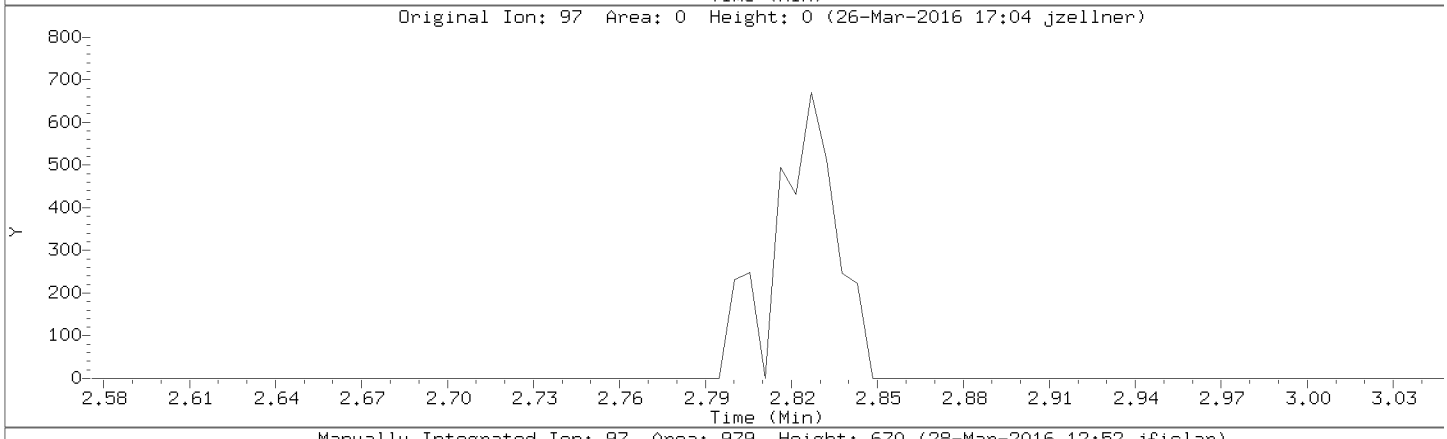


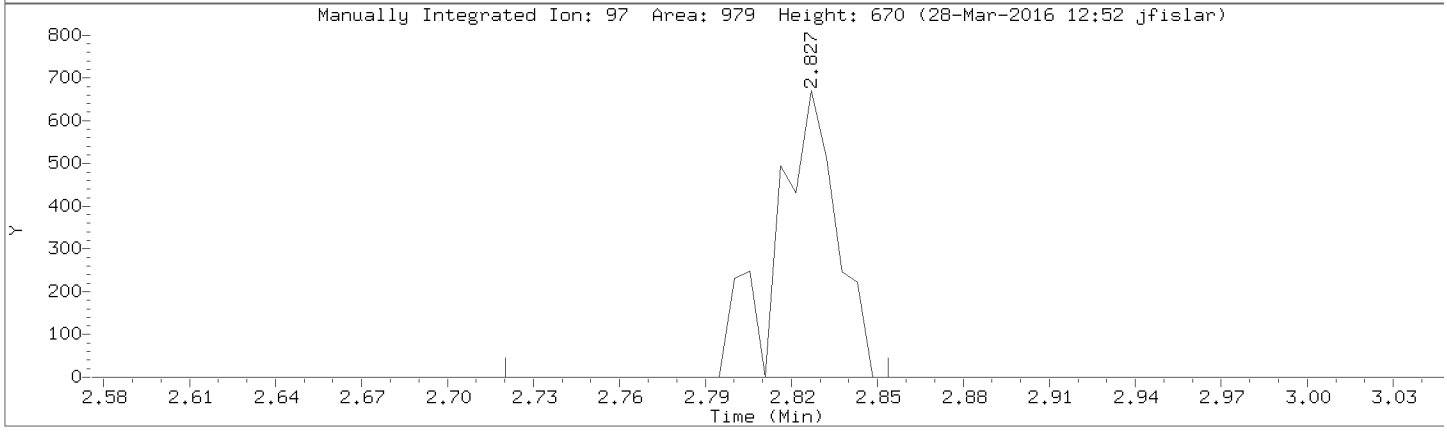
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7



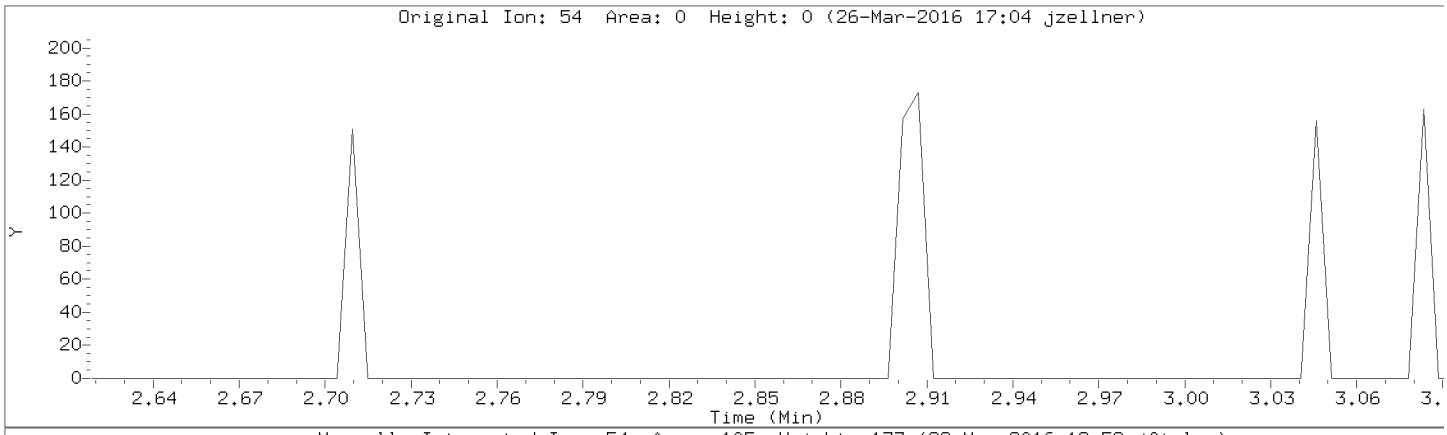


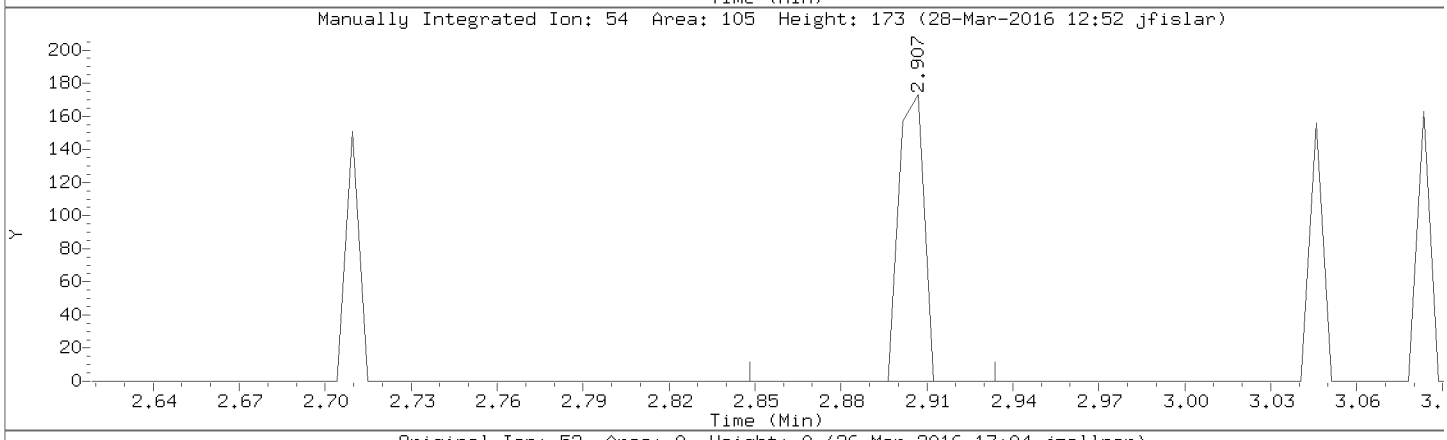


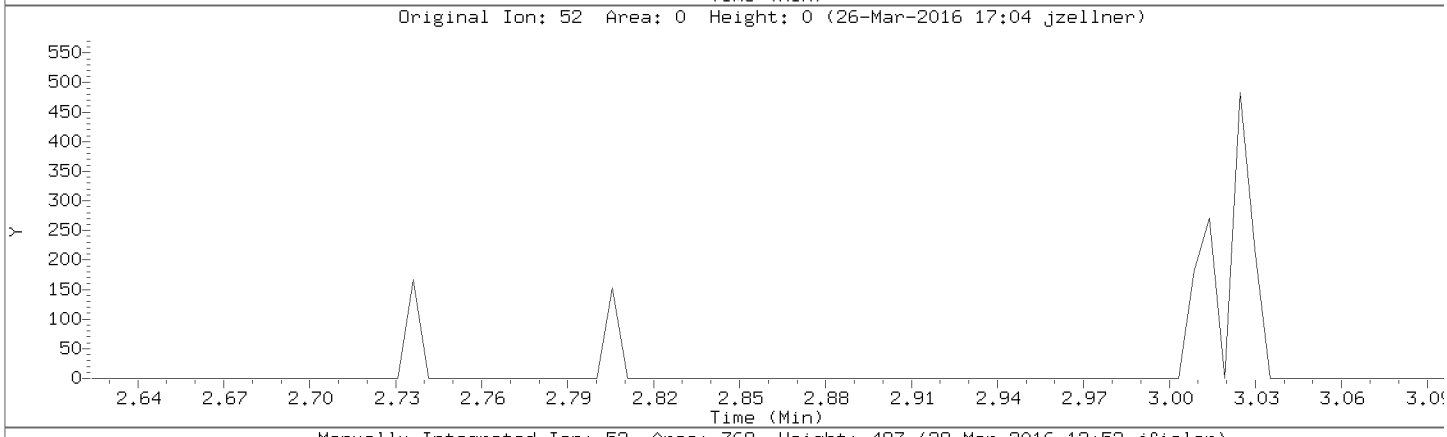


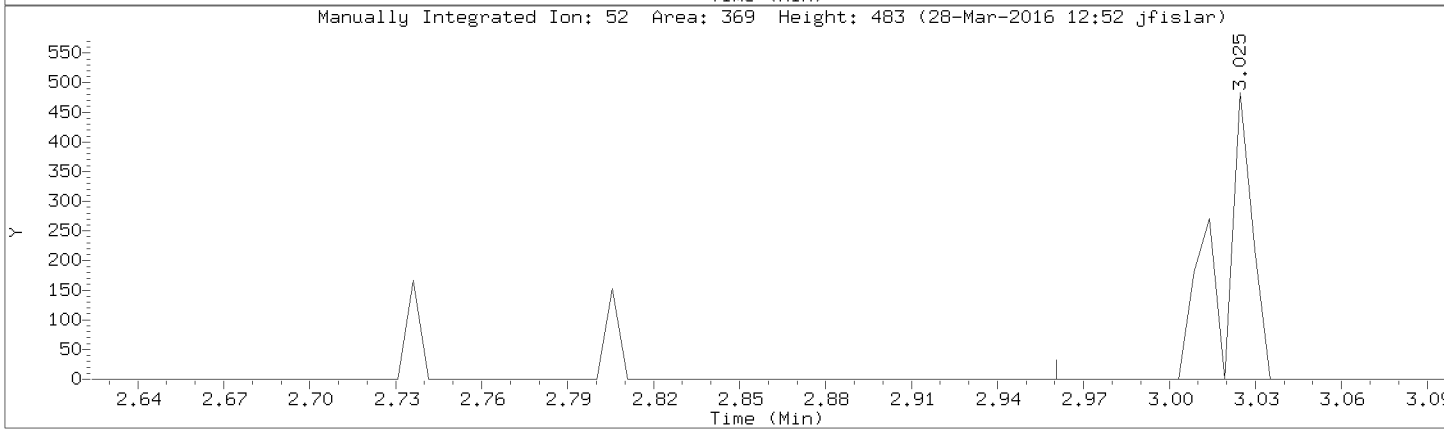
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0

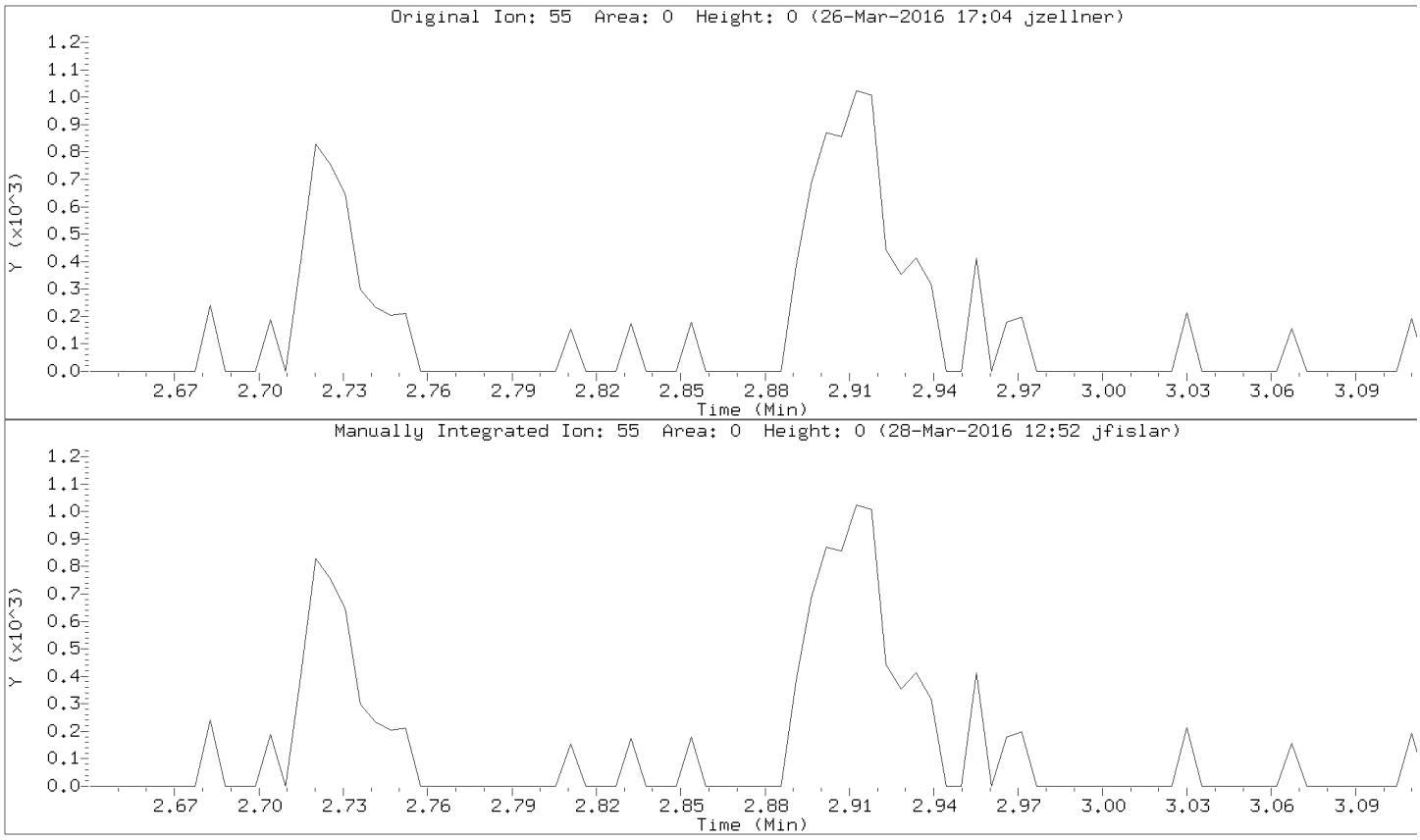






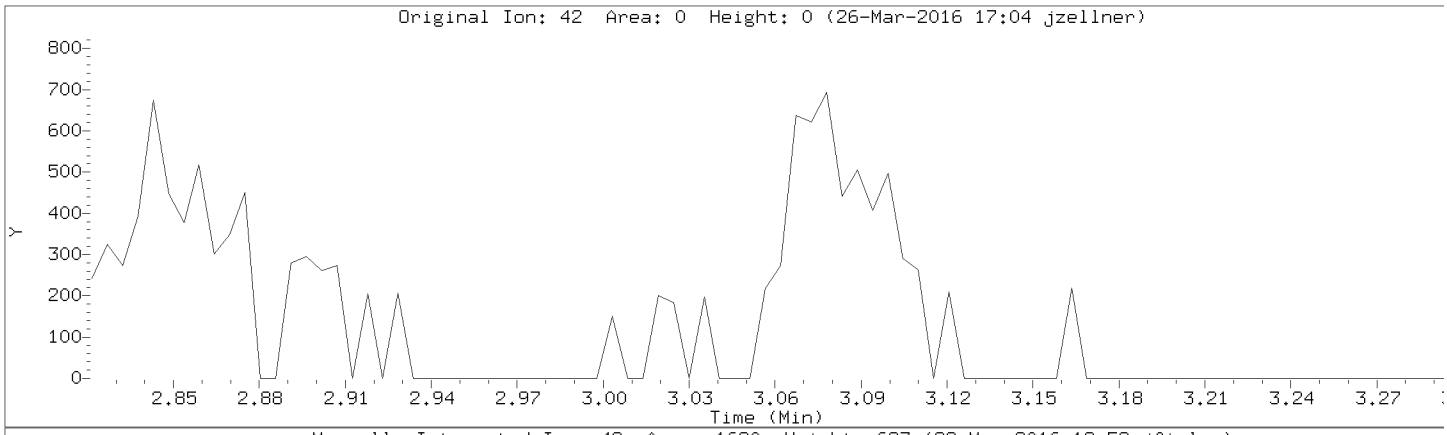


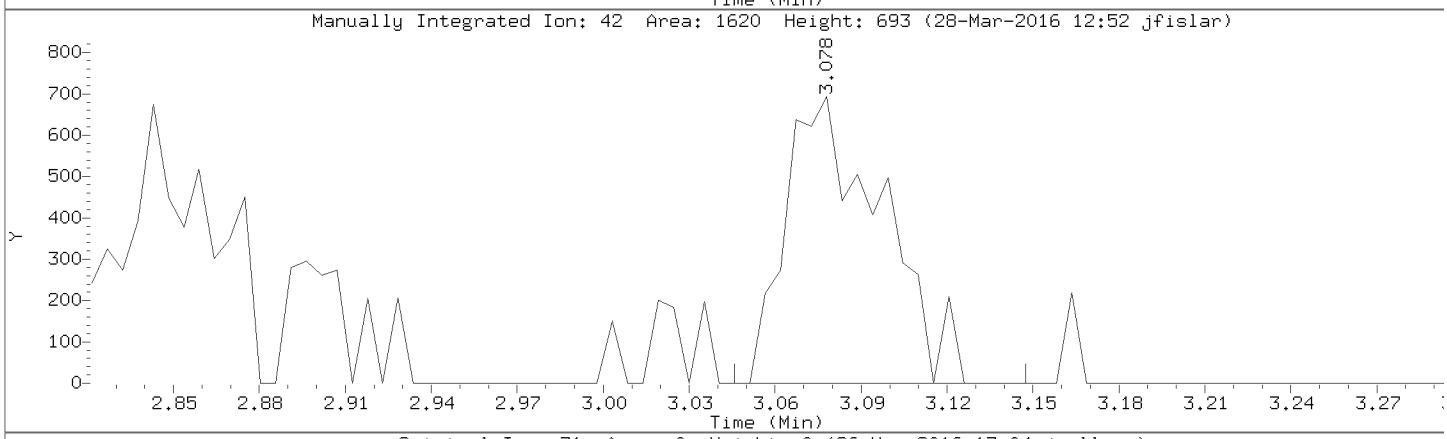
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

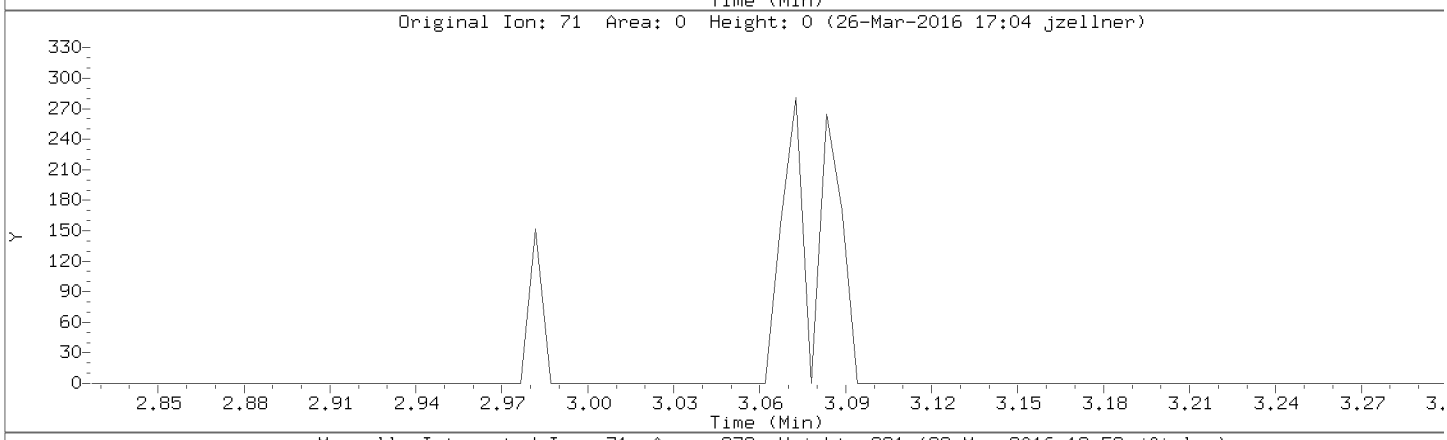


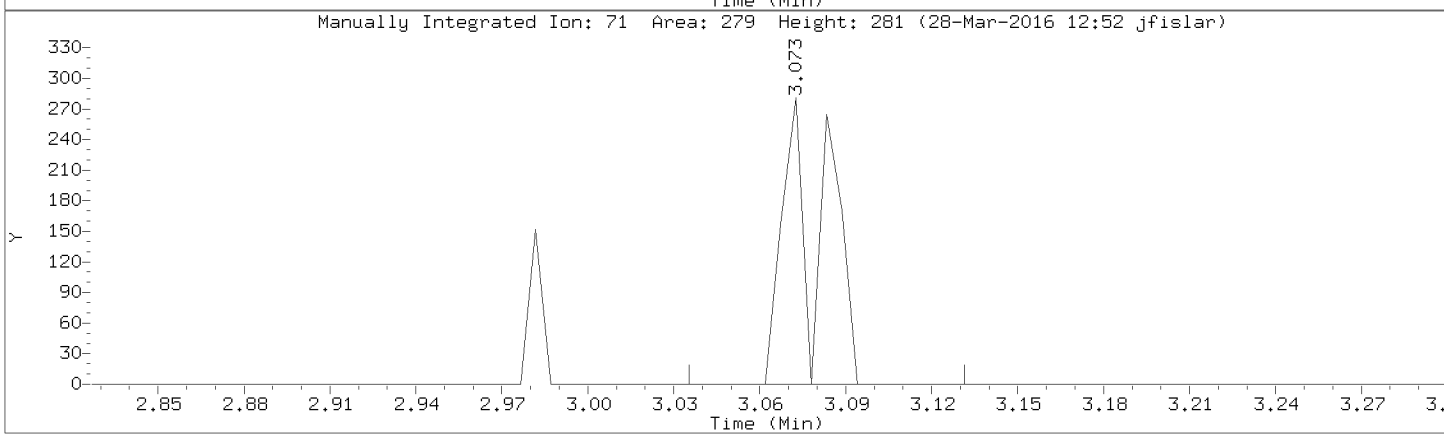
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:

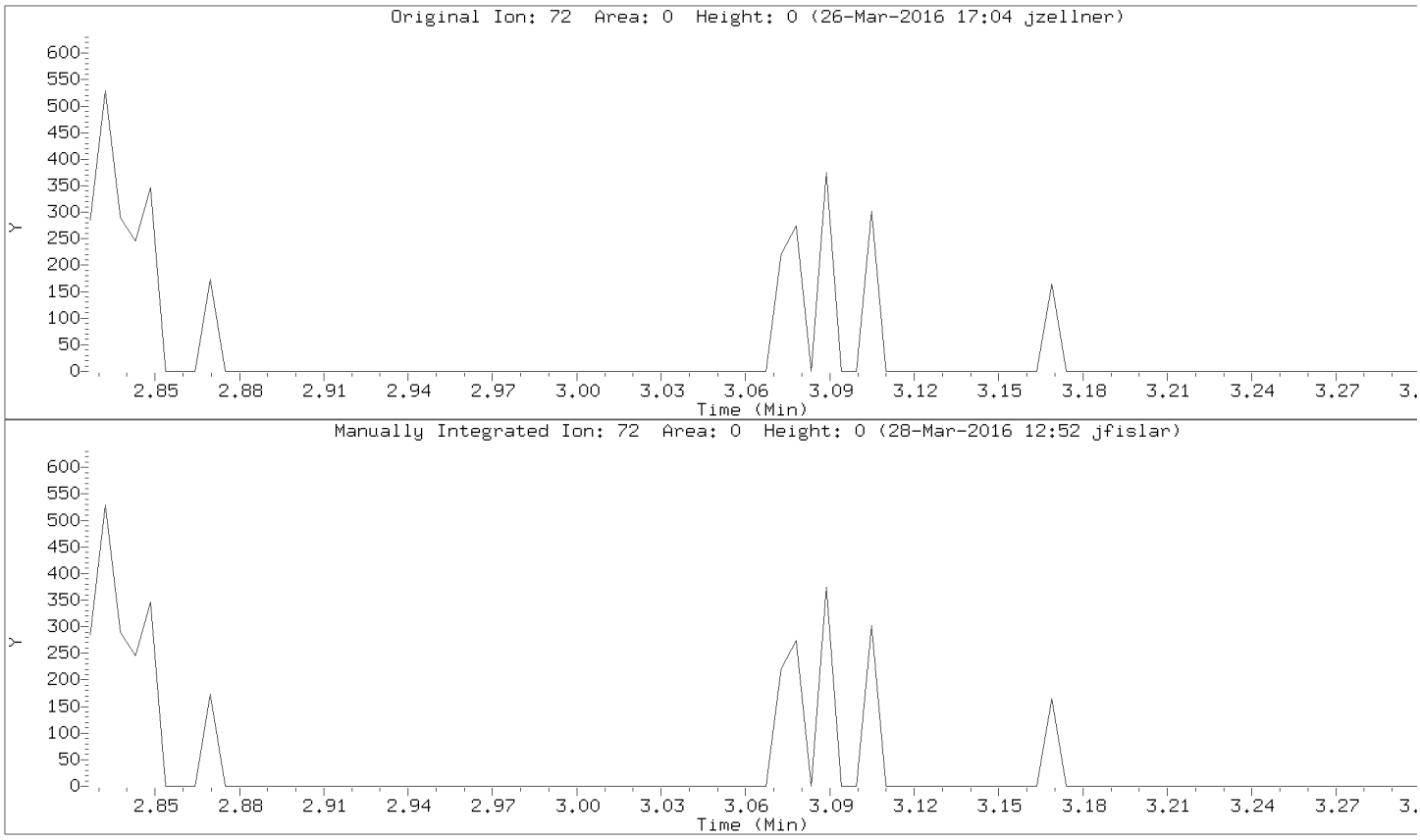






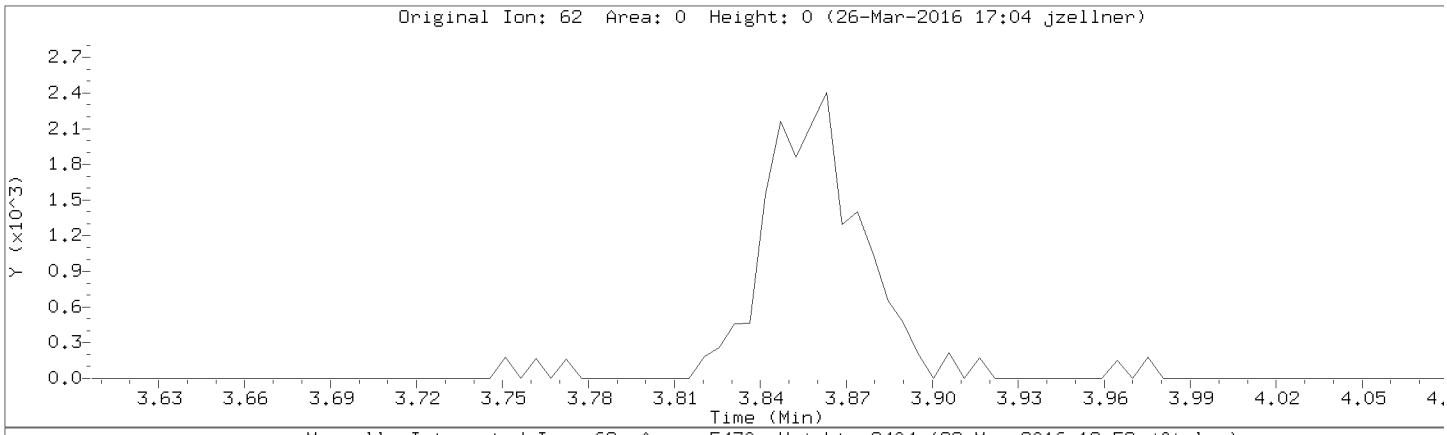


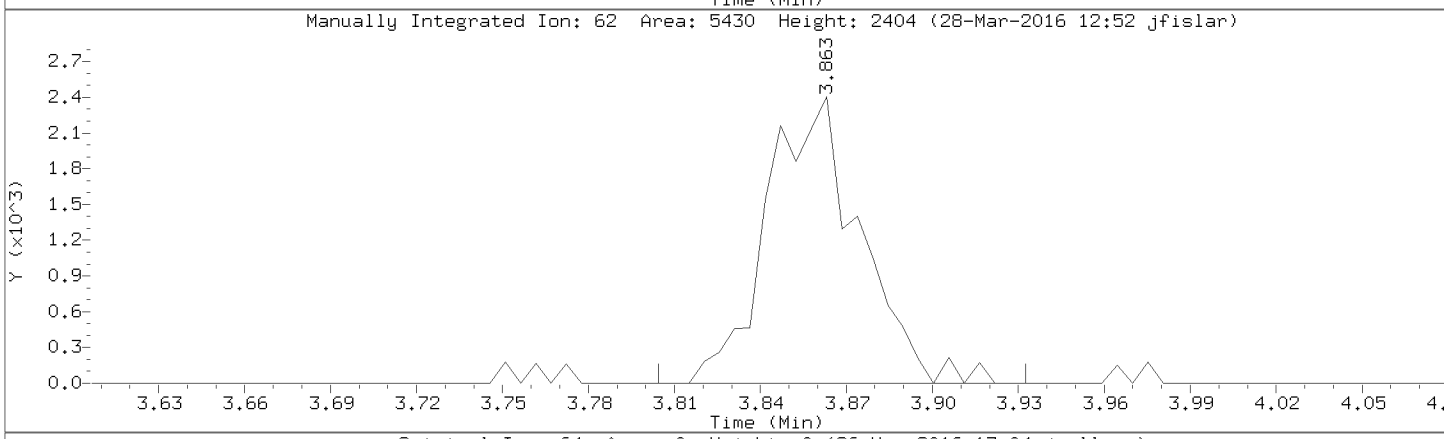
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

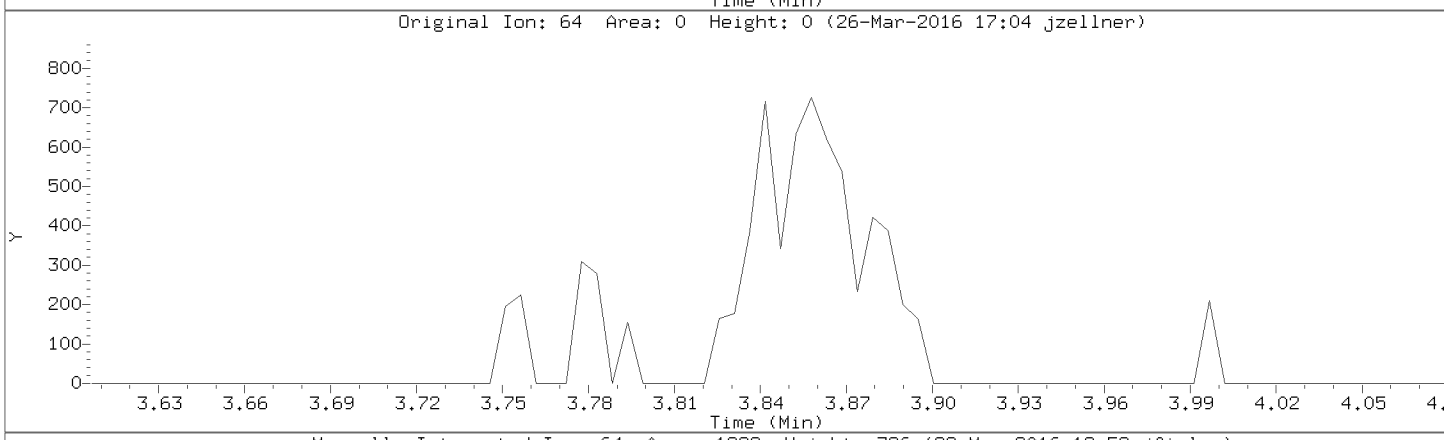


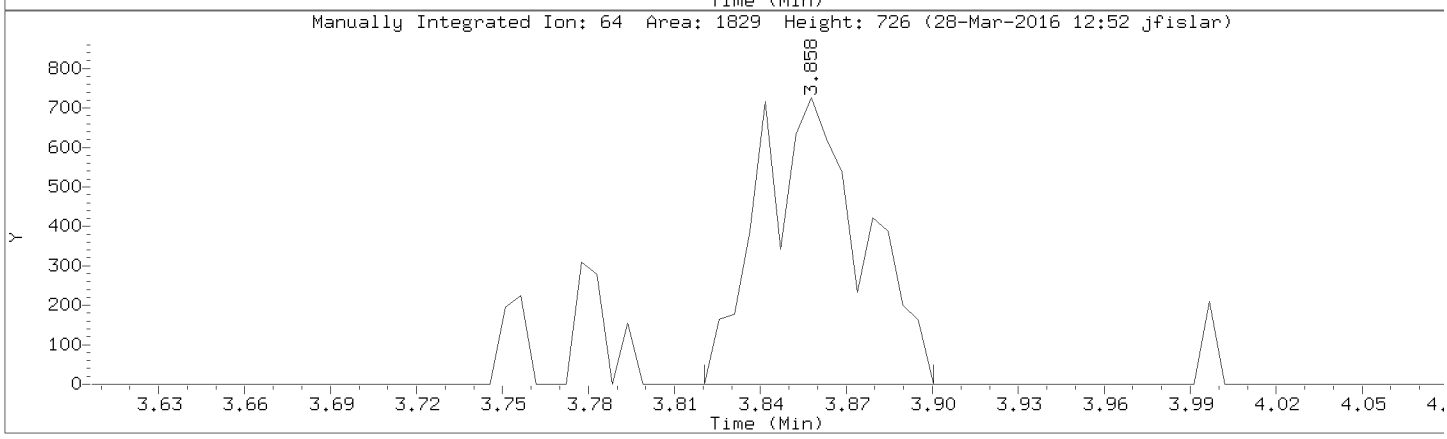
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

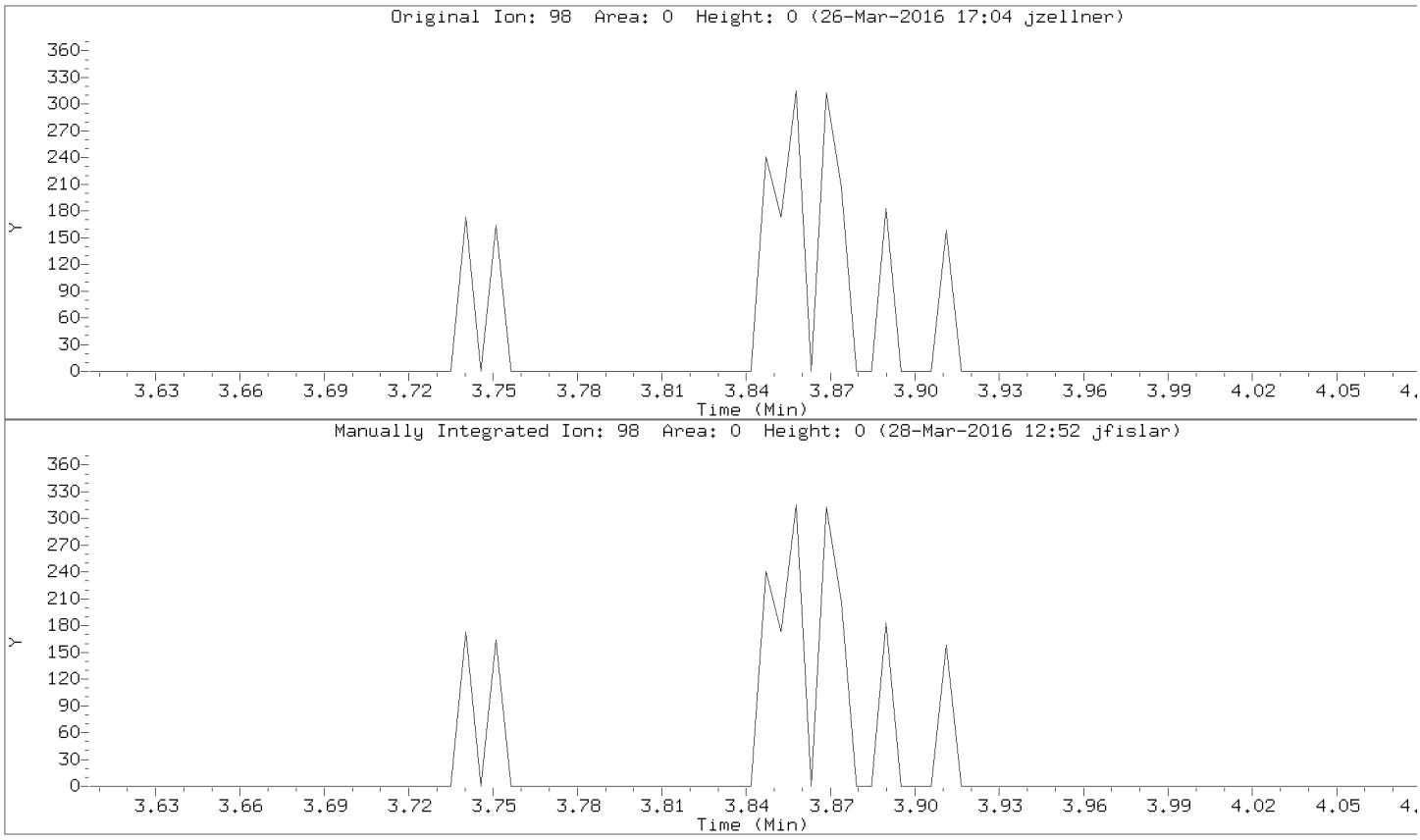






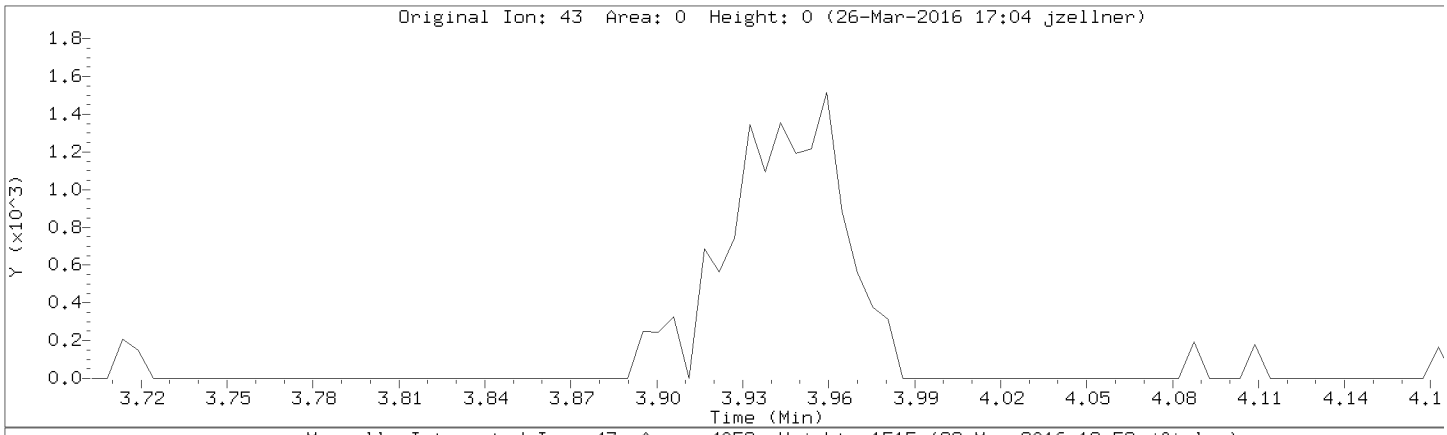


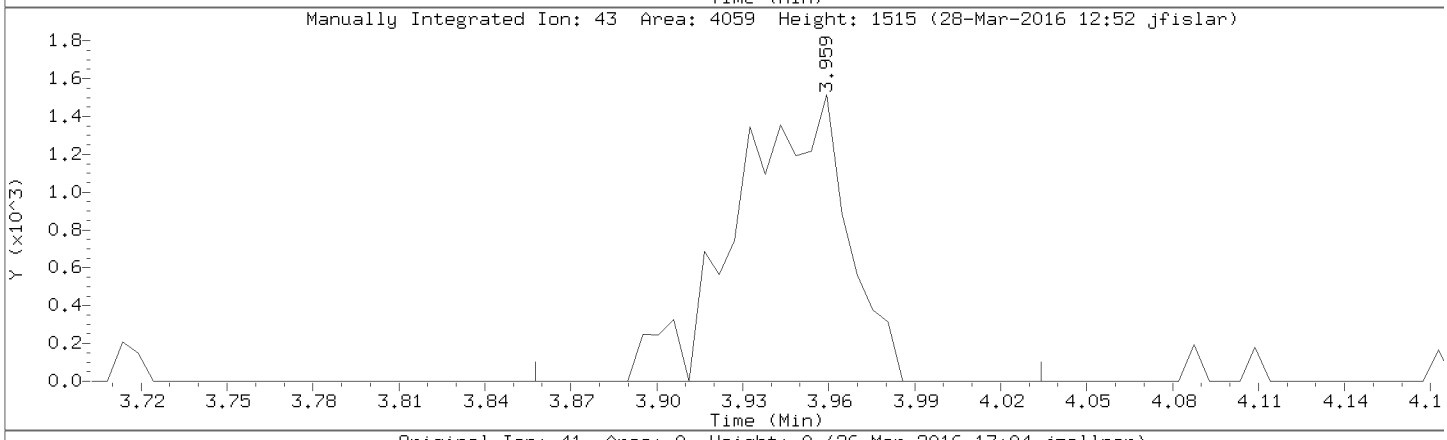
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

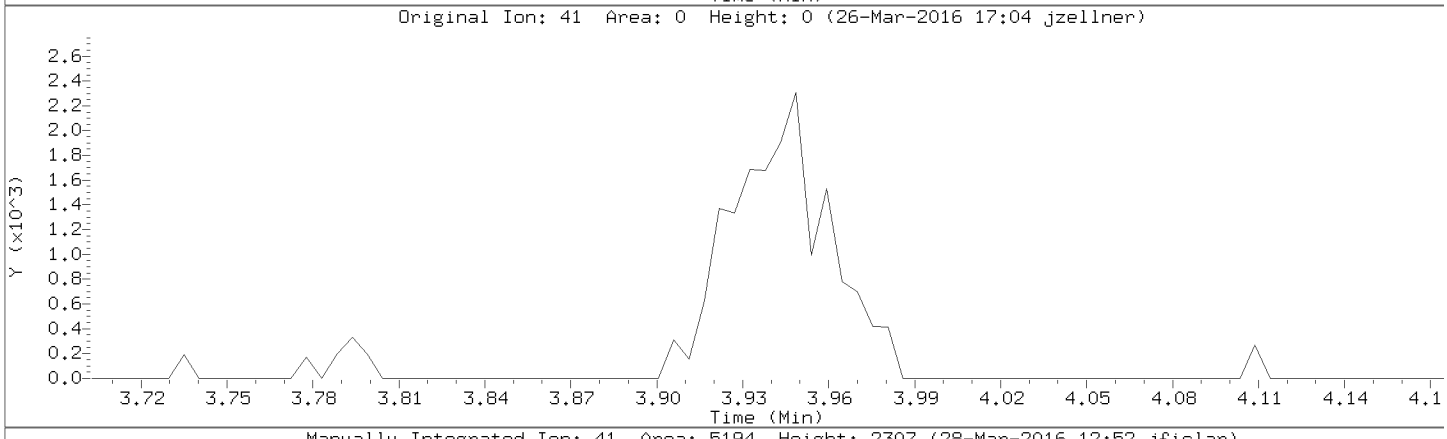


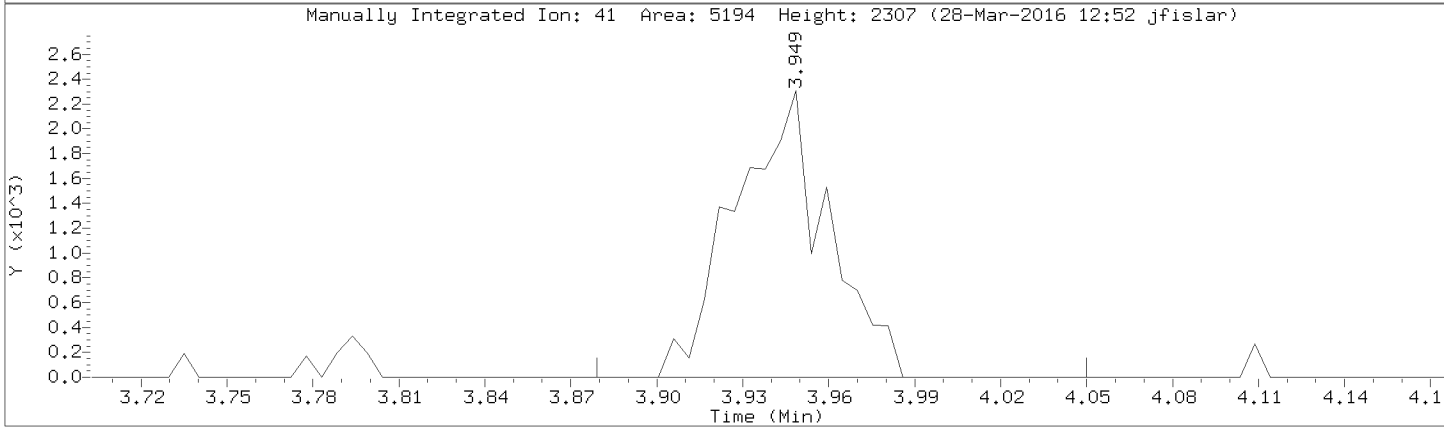
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

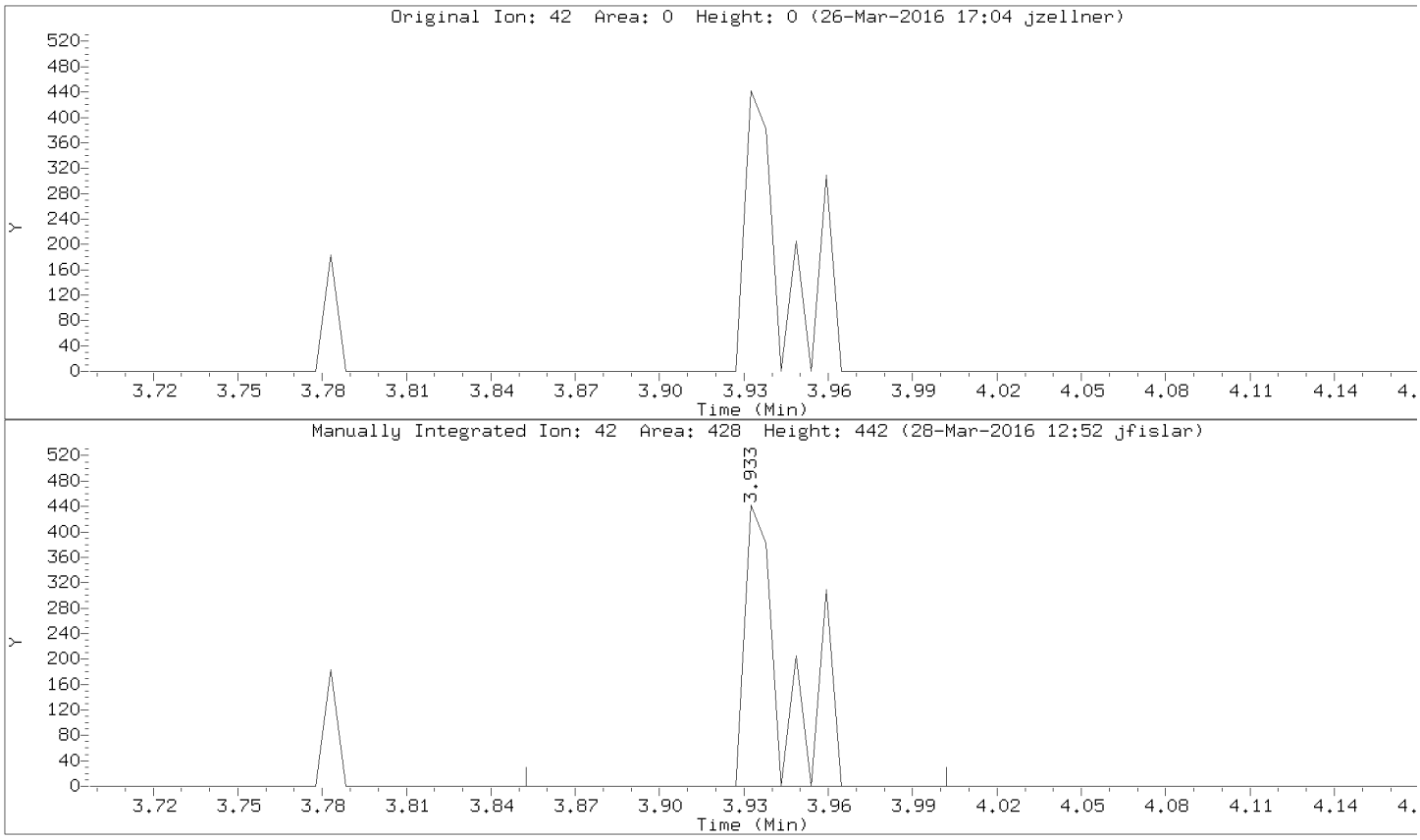






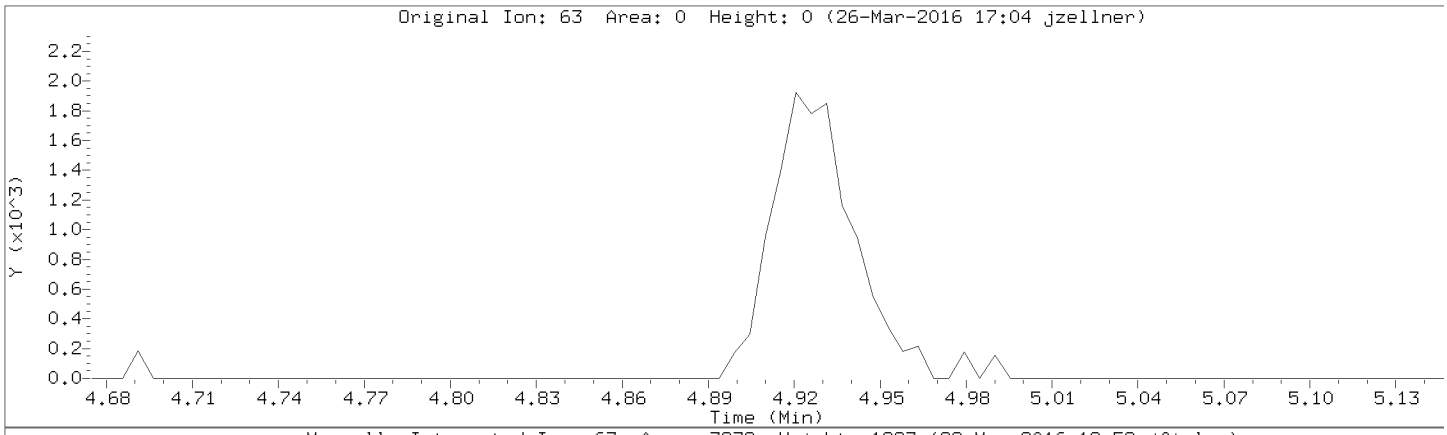


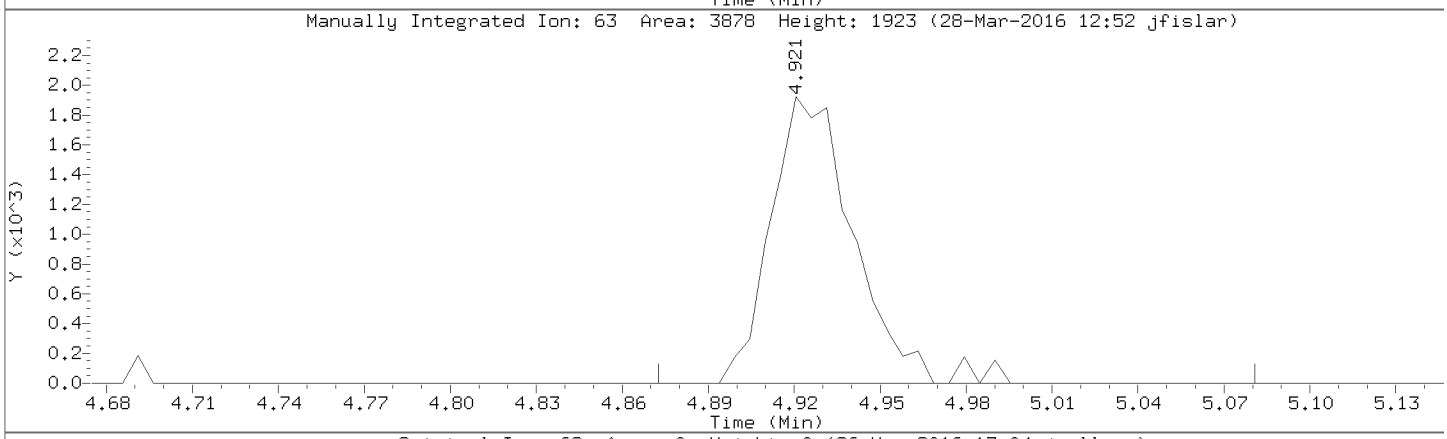
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

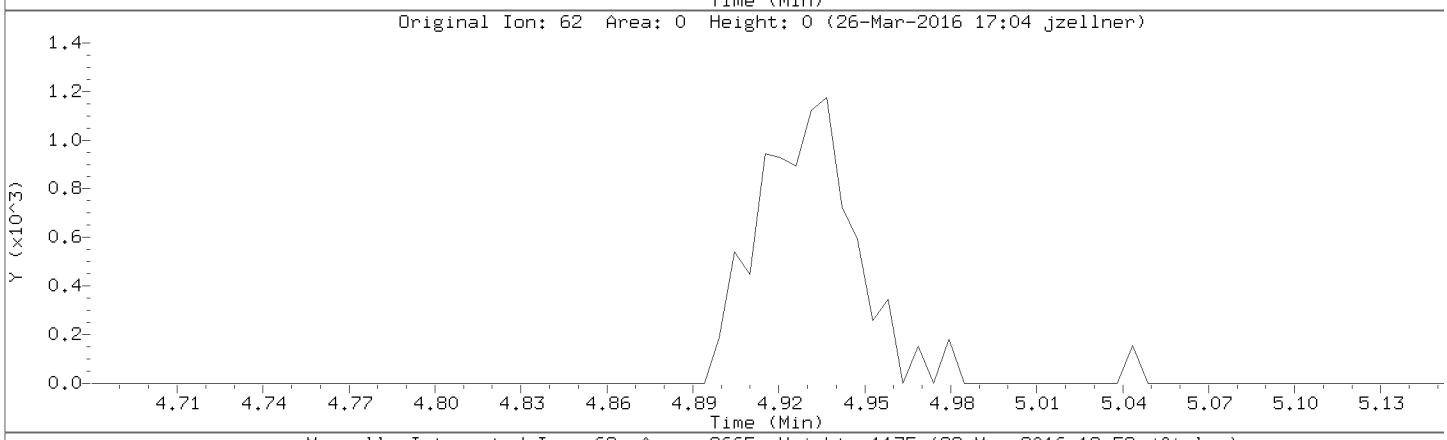


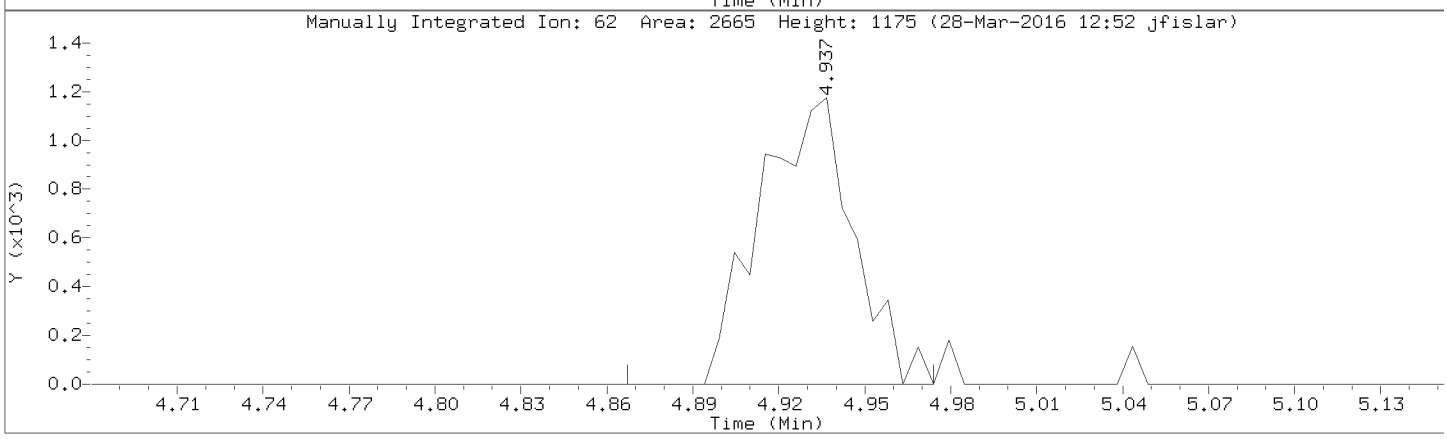
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5

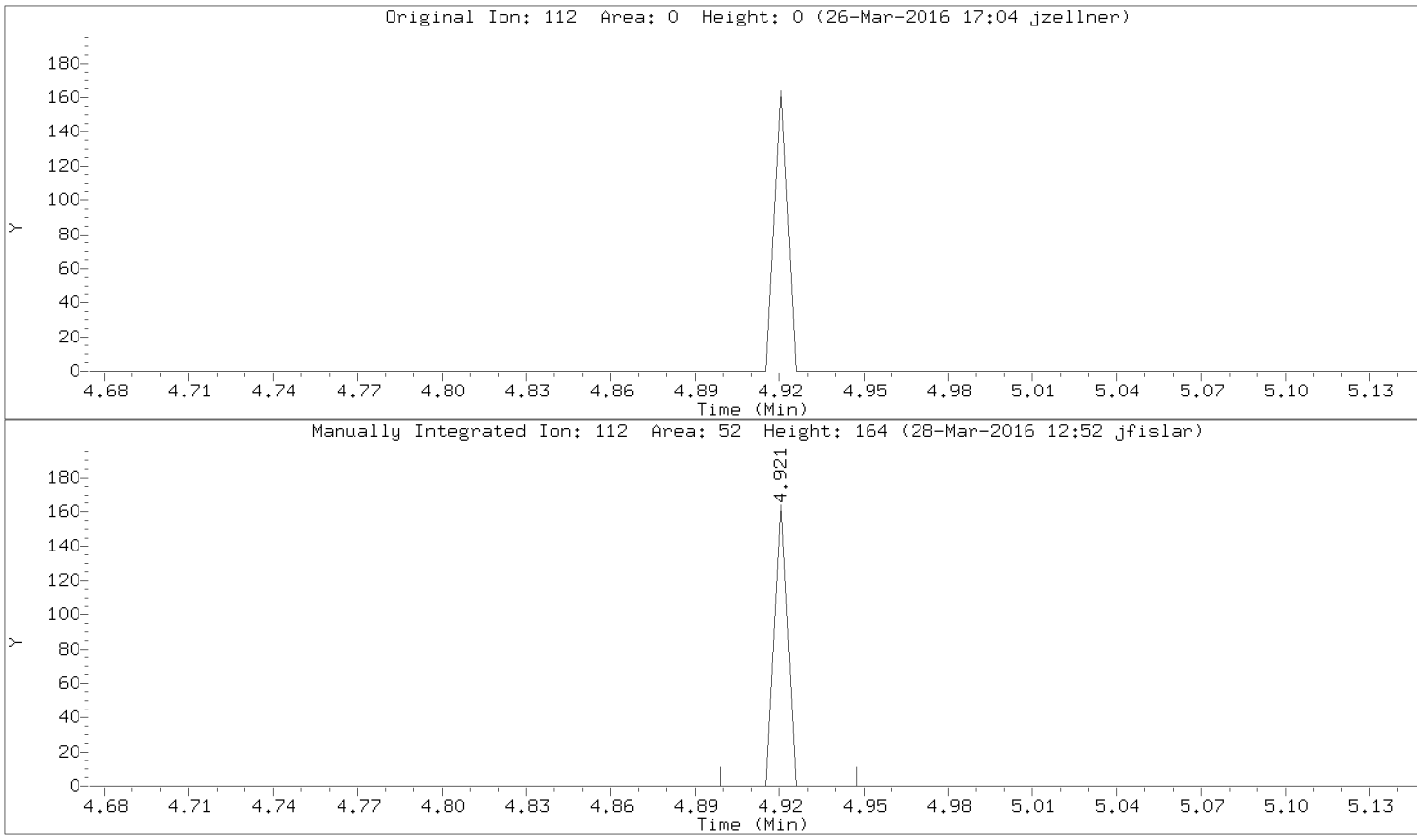






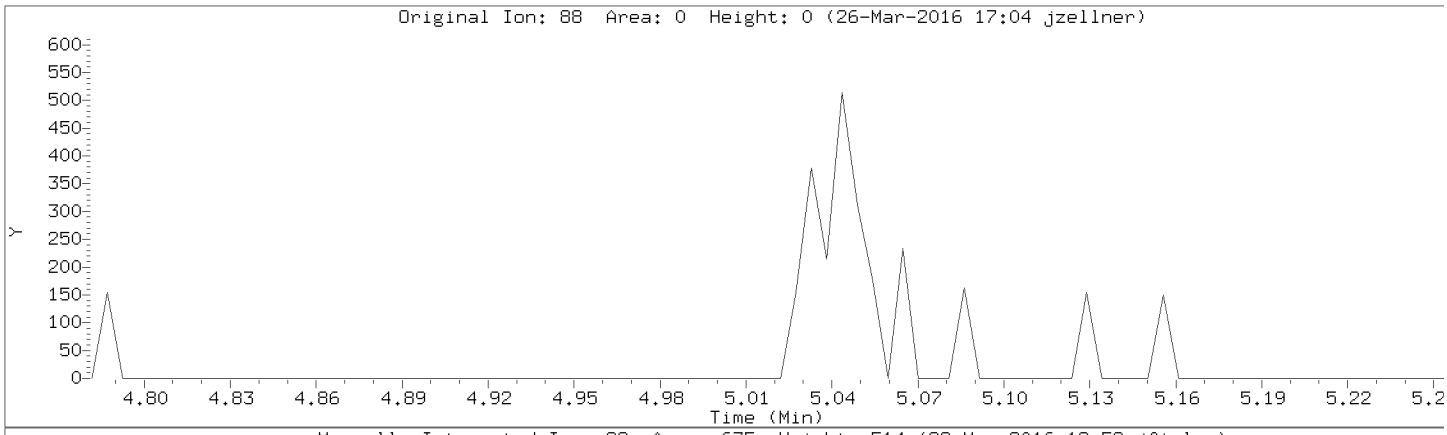


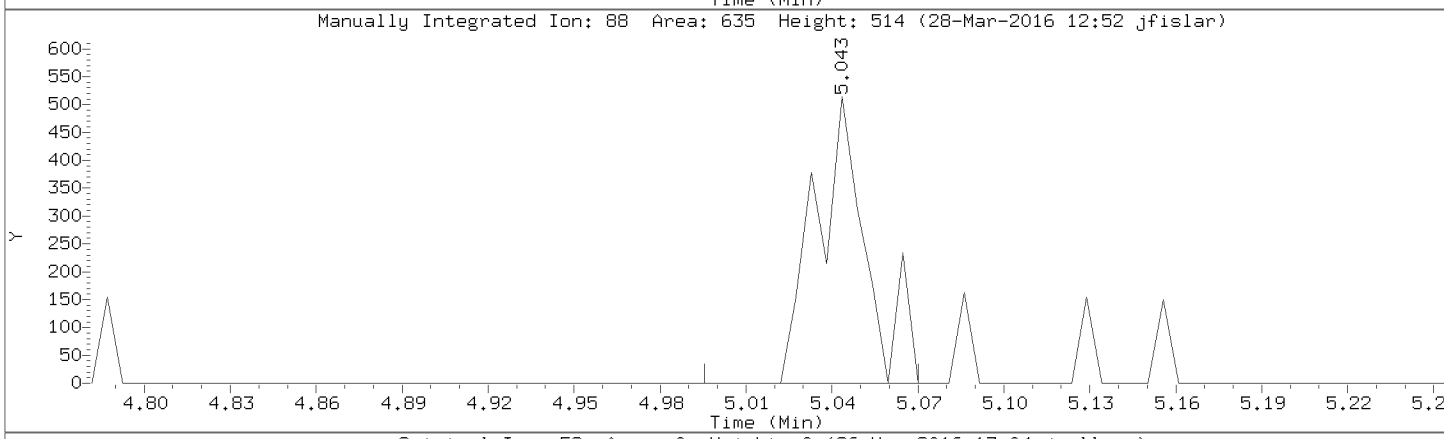
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

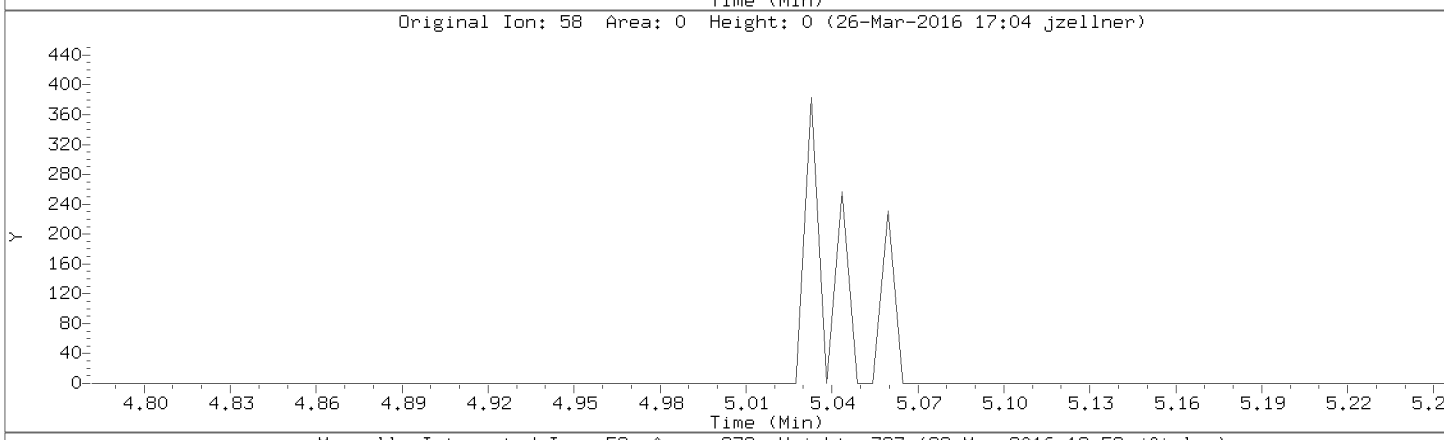


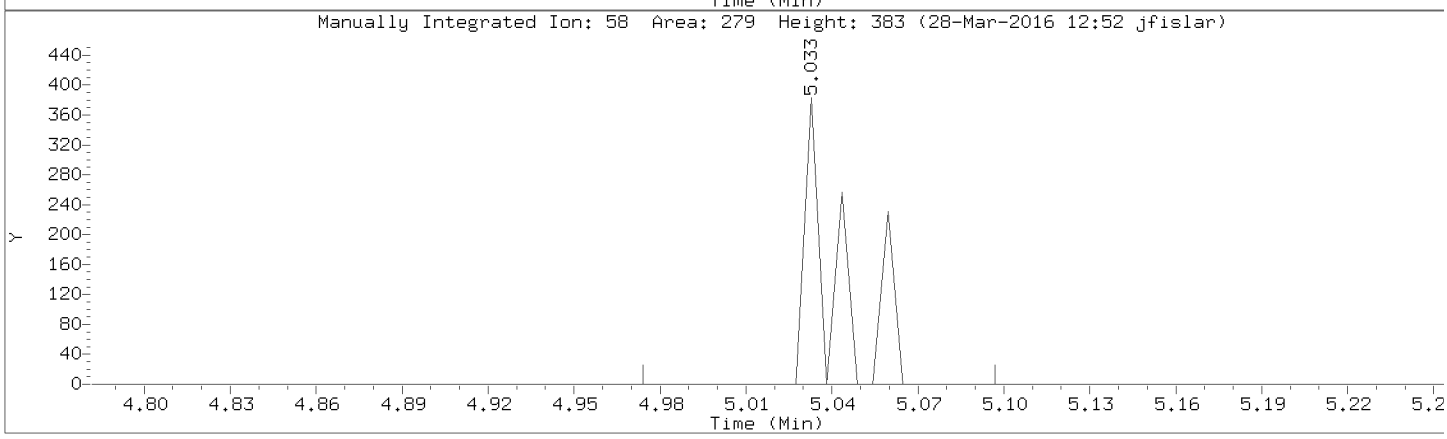
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



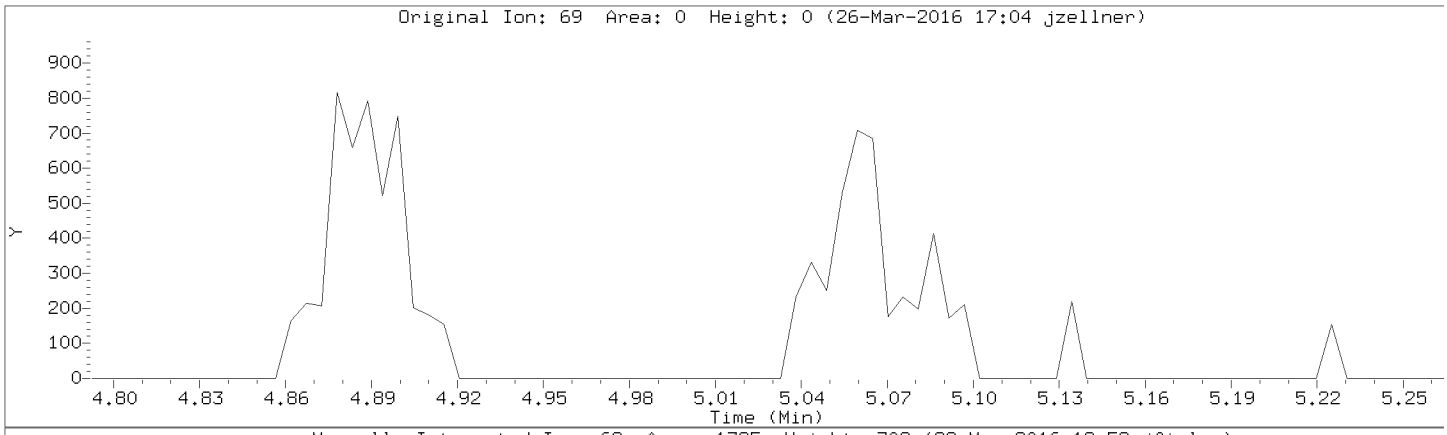


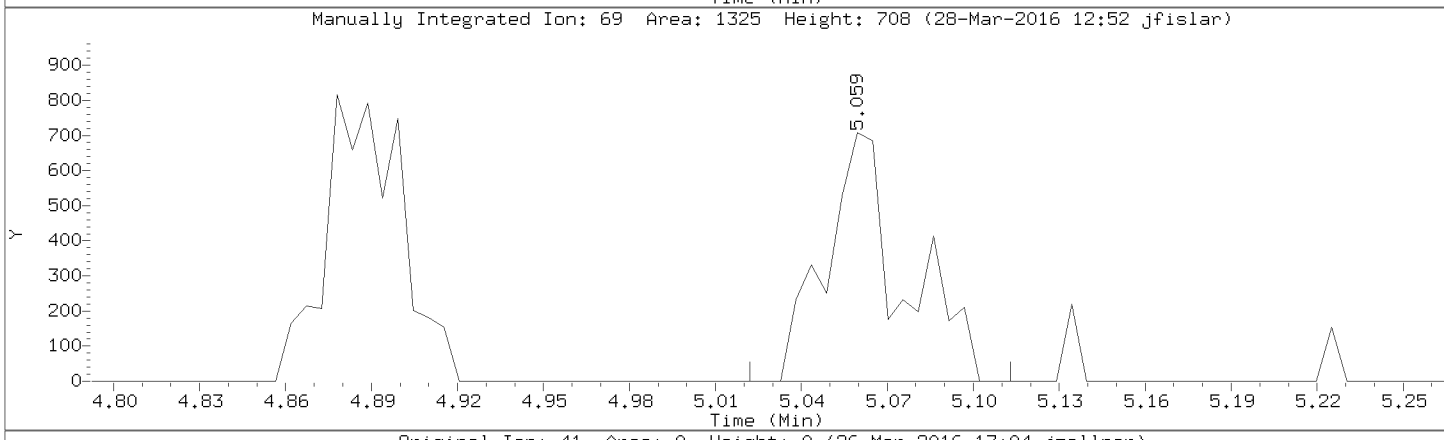


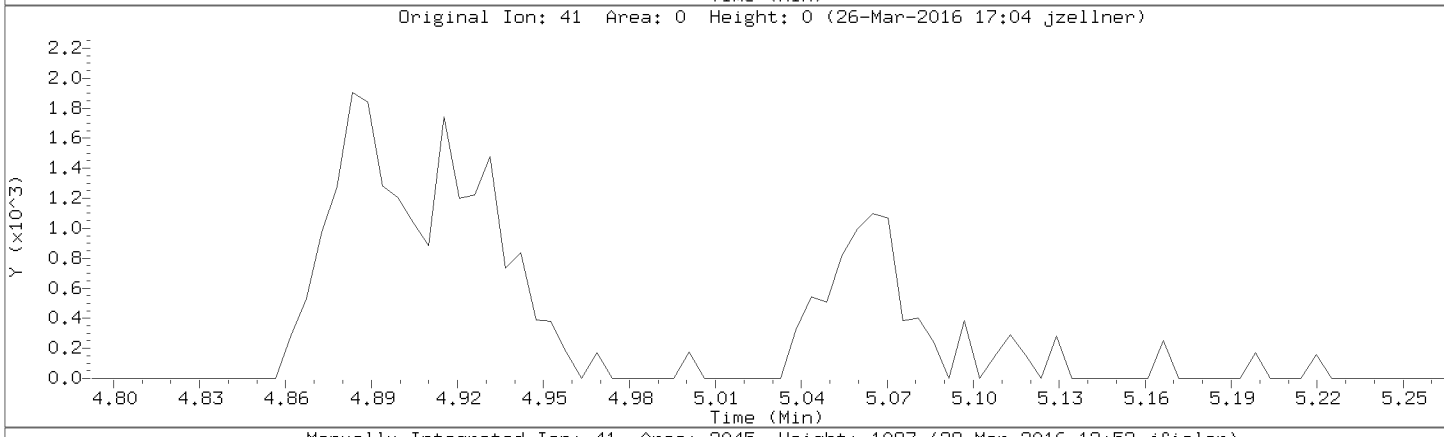


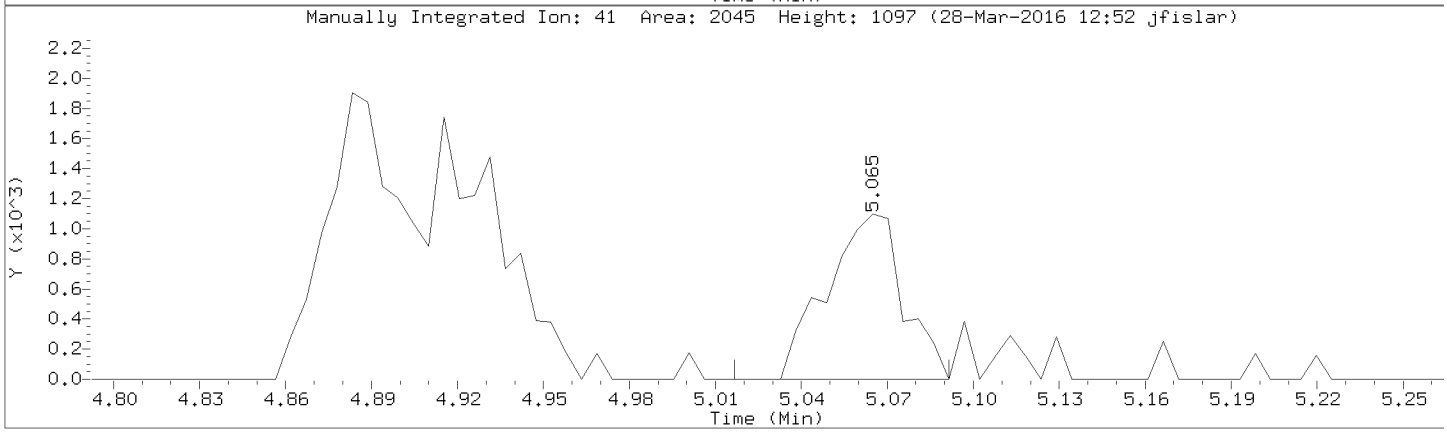
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

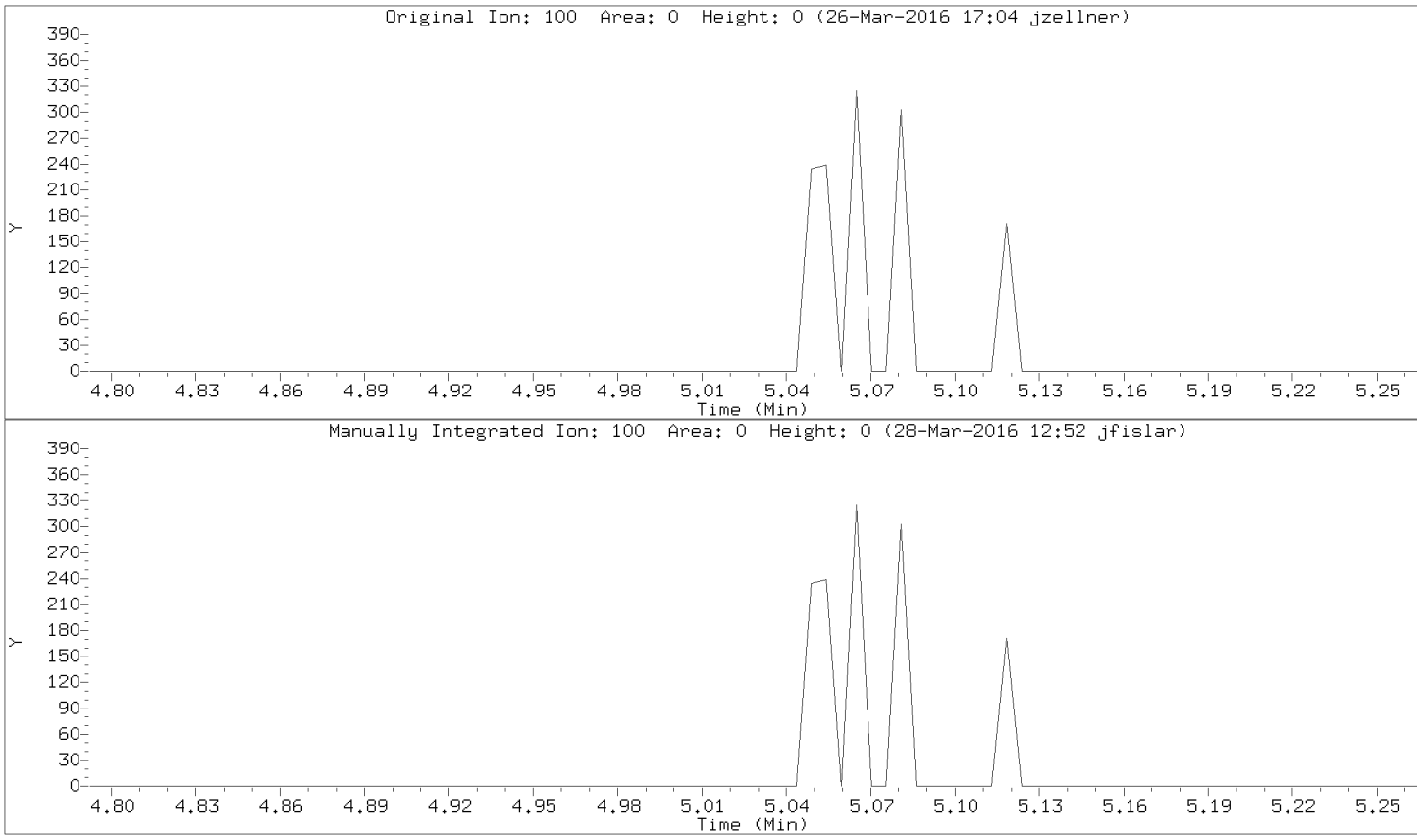






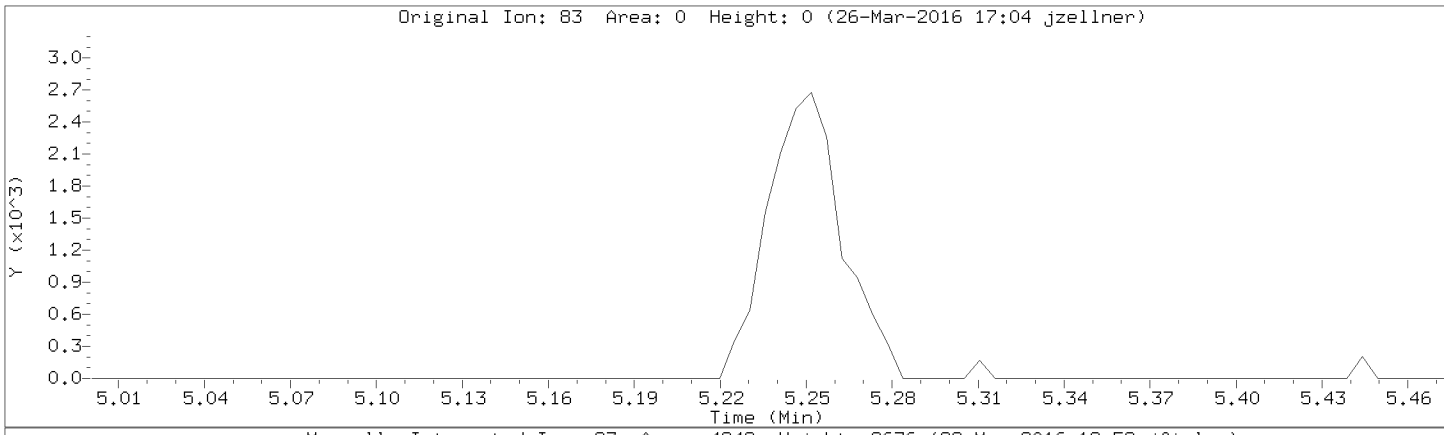


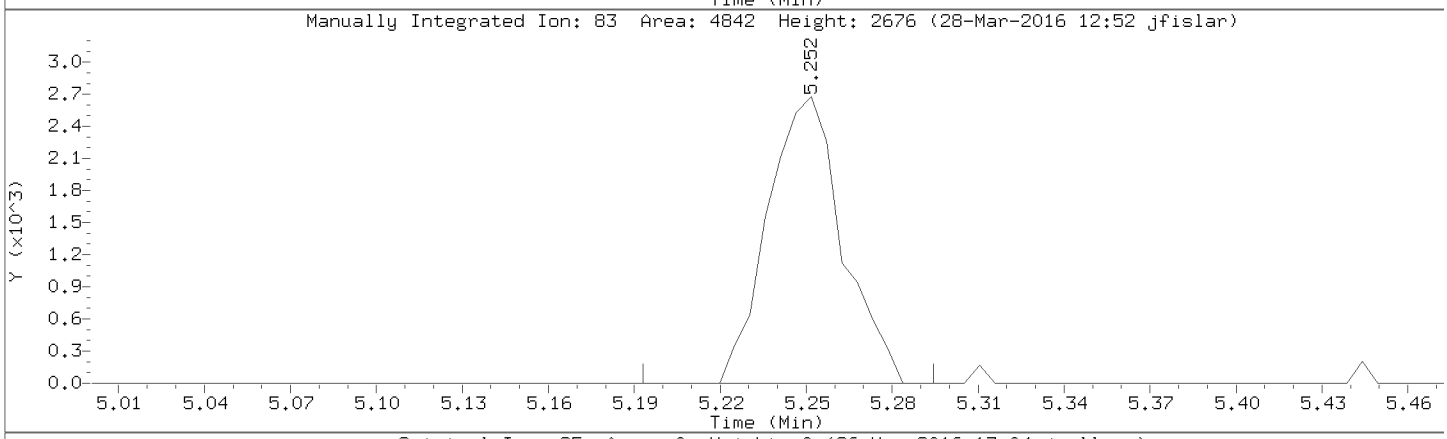
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

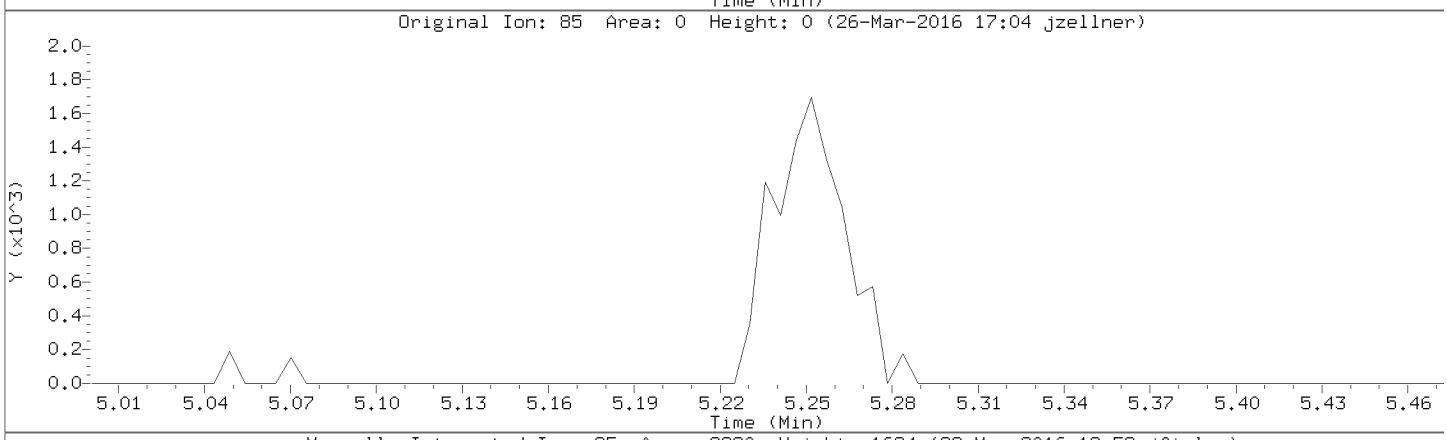


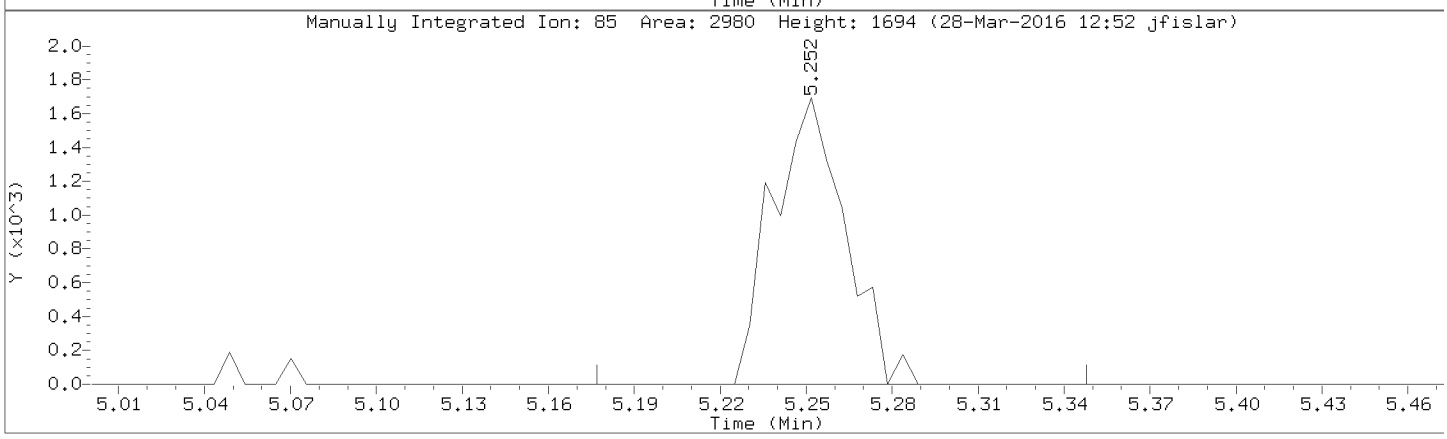
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

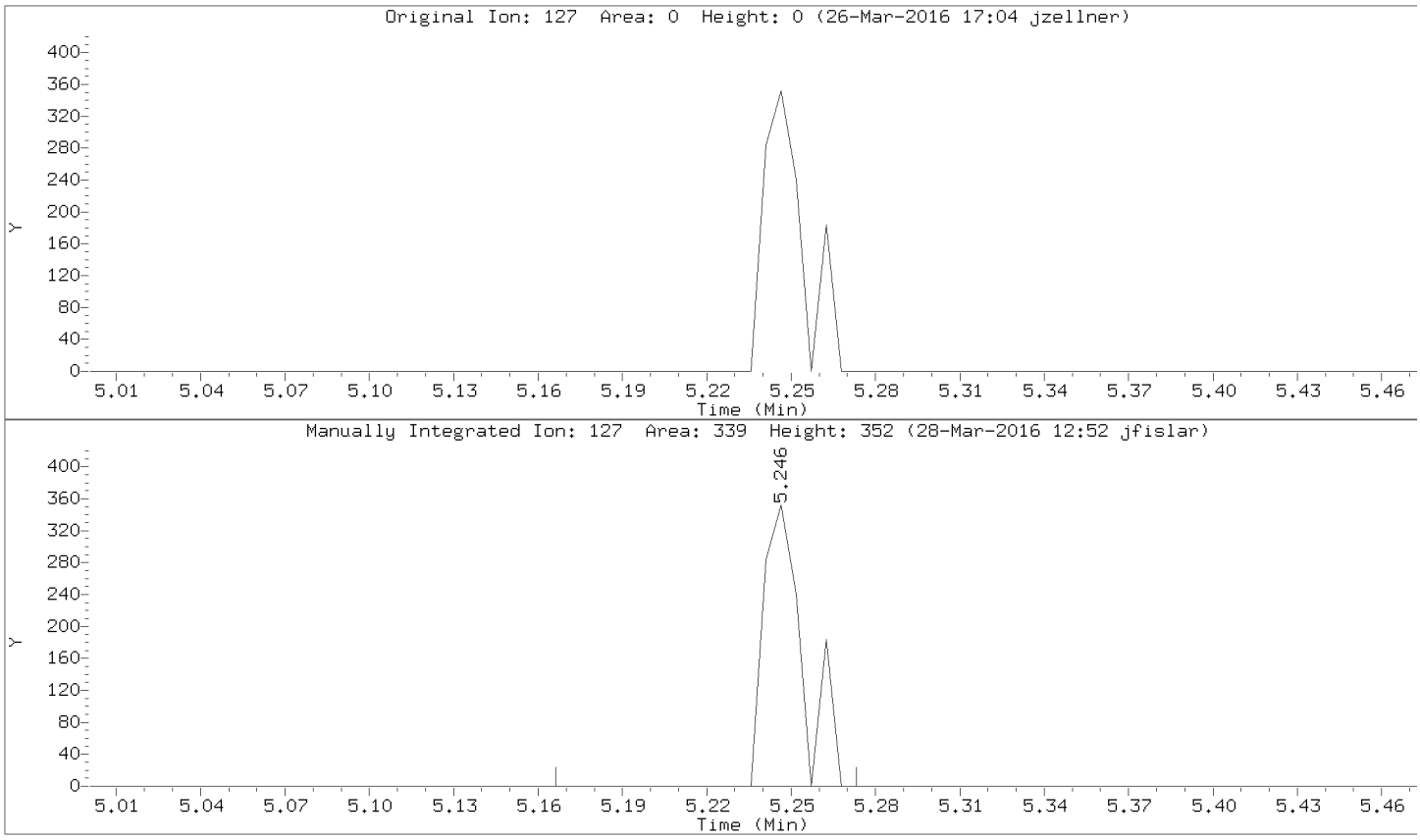






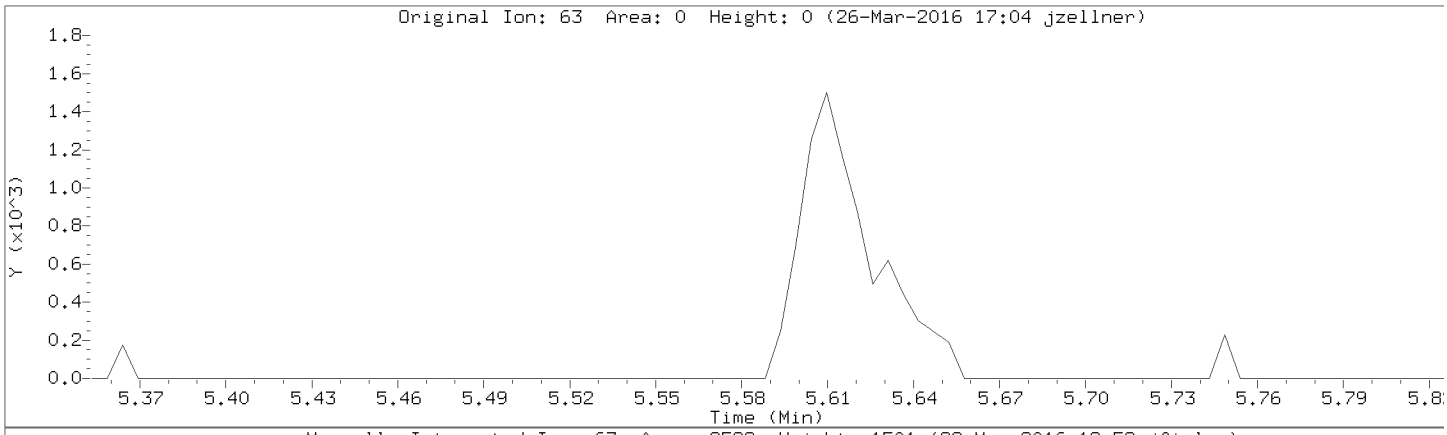


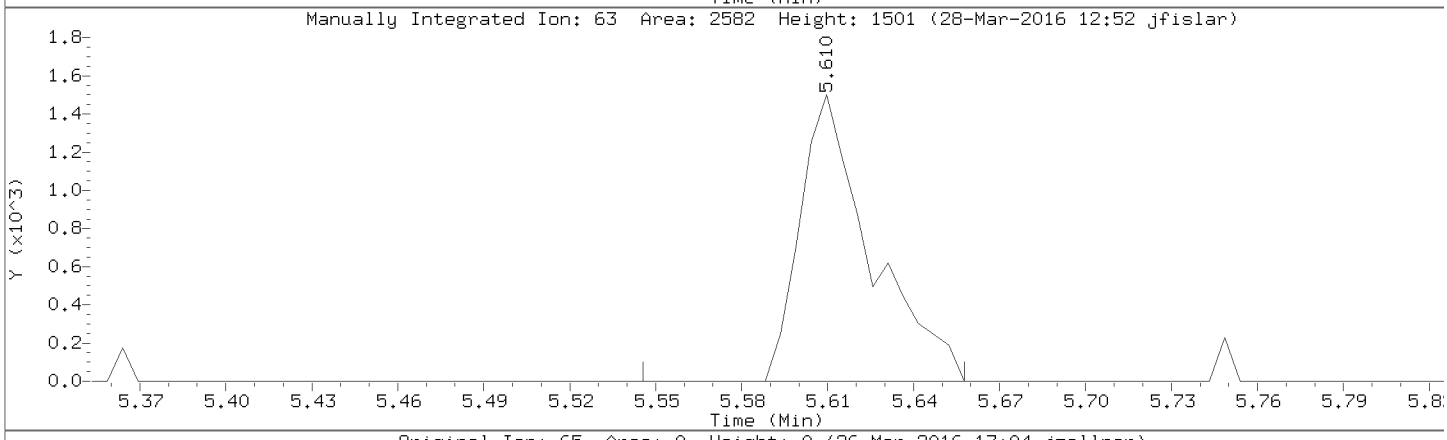
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

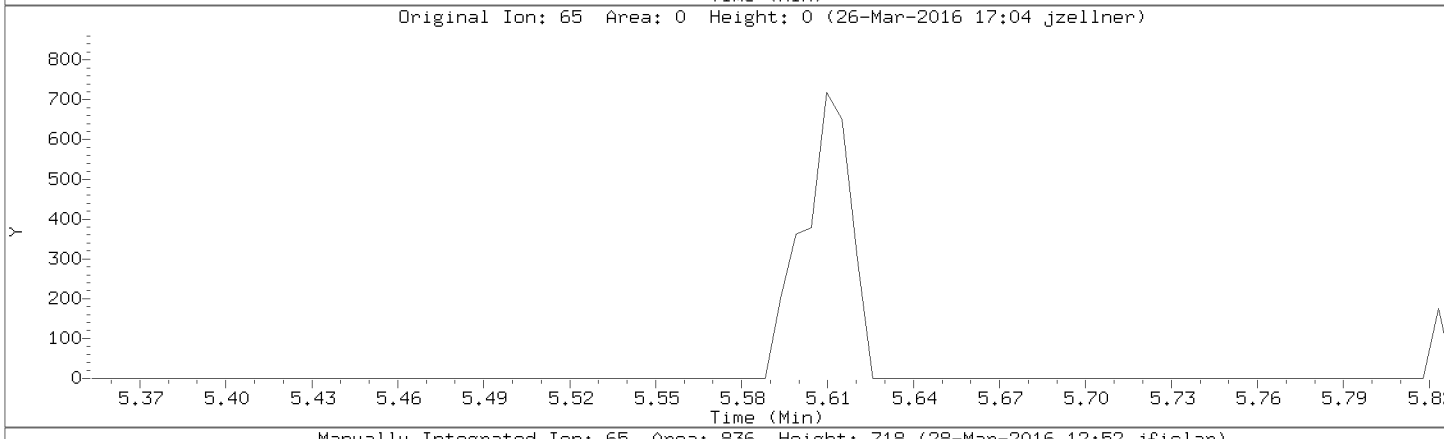


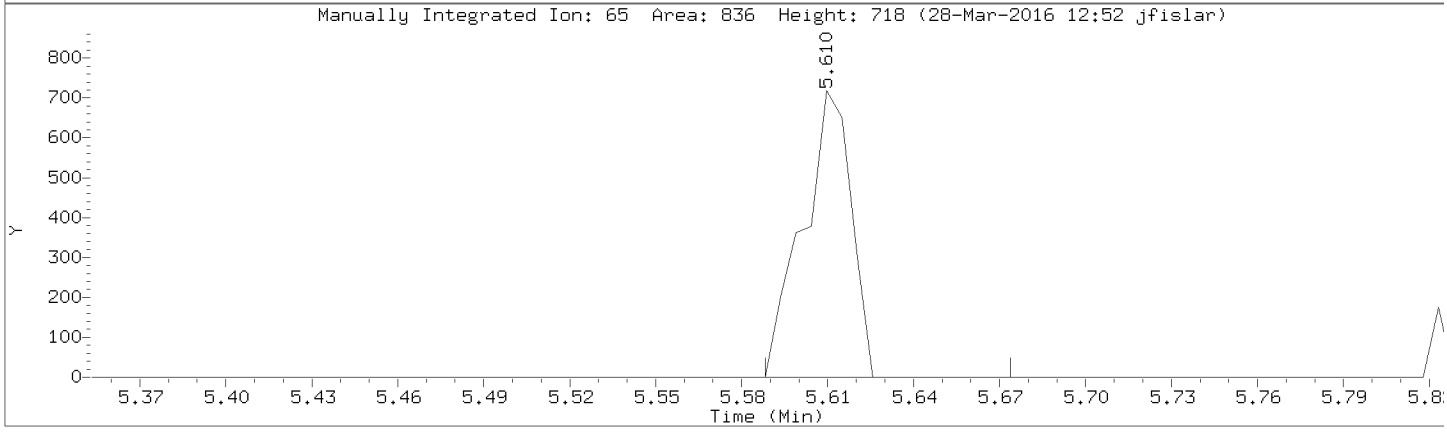
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2-Chloroethyl vinyl ether Review Code: NI
CAS Number: 110-75-8



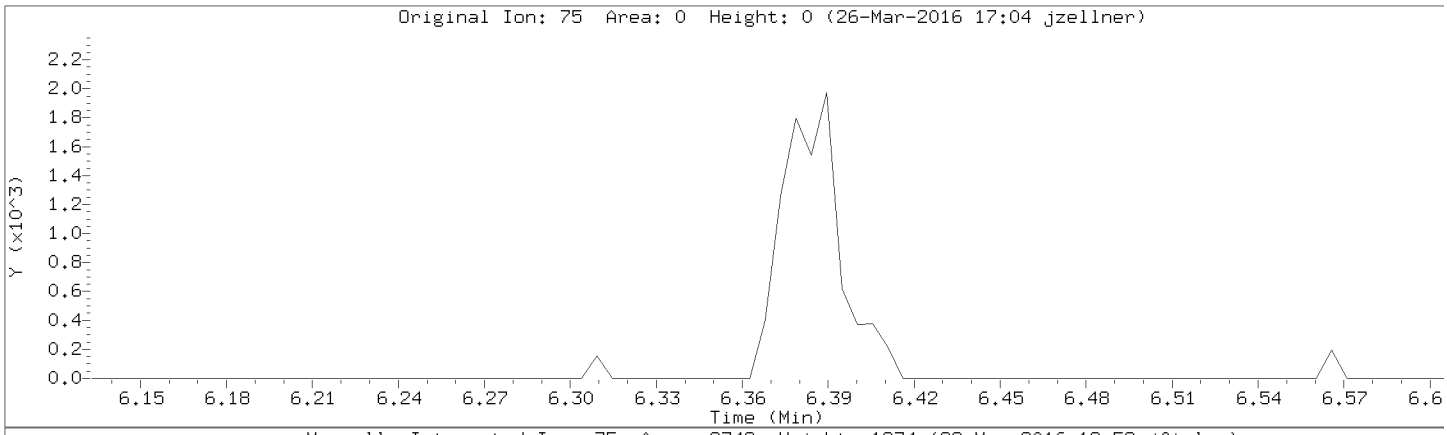


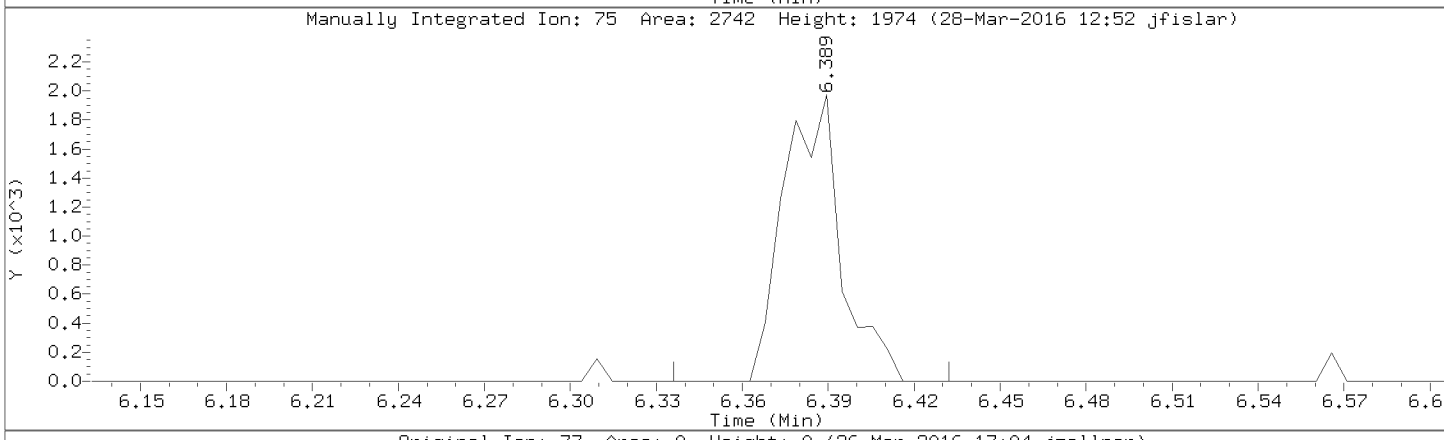


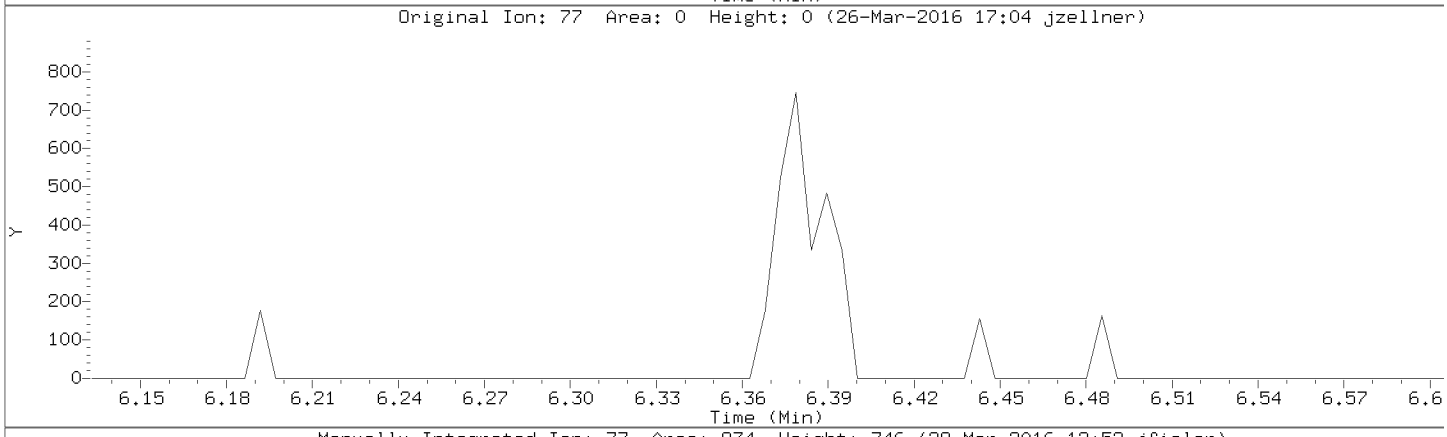


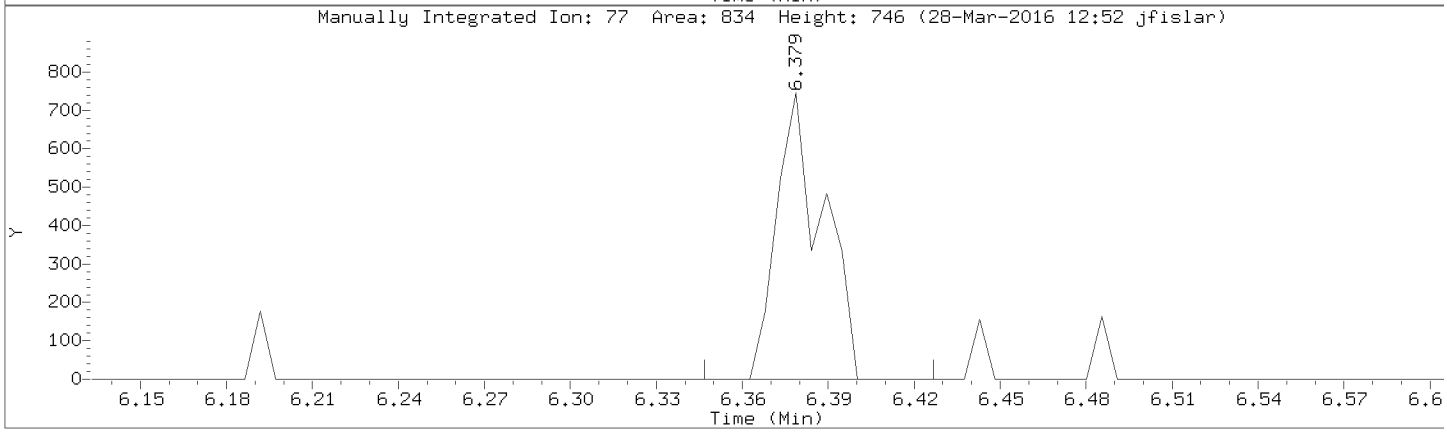
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: trans-1,3-Dichloropropene Review Code: NI
CAS Number: 10061-02-6



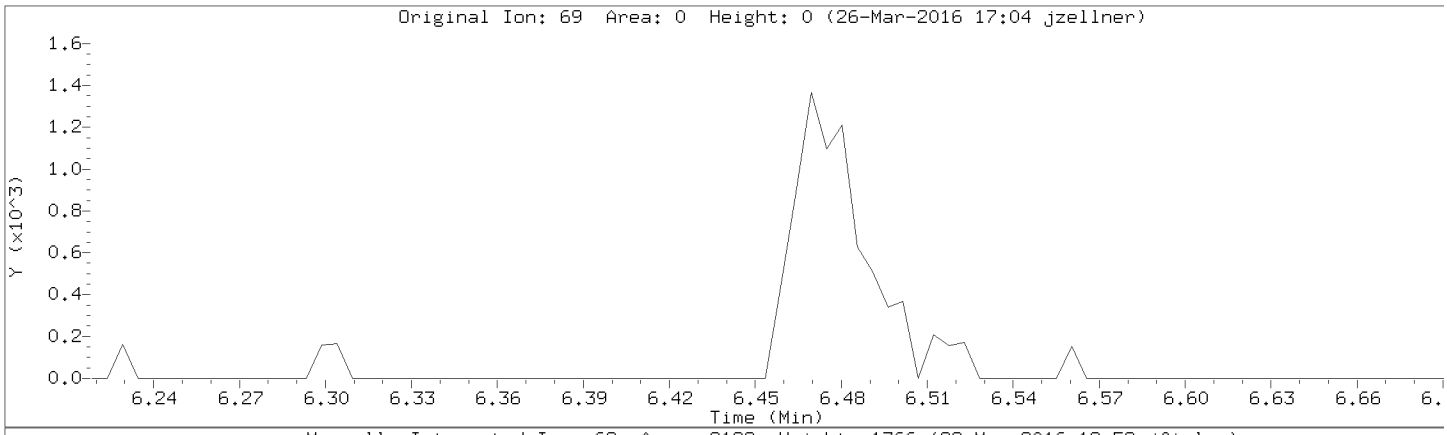


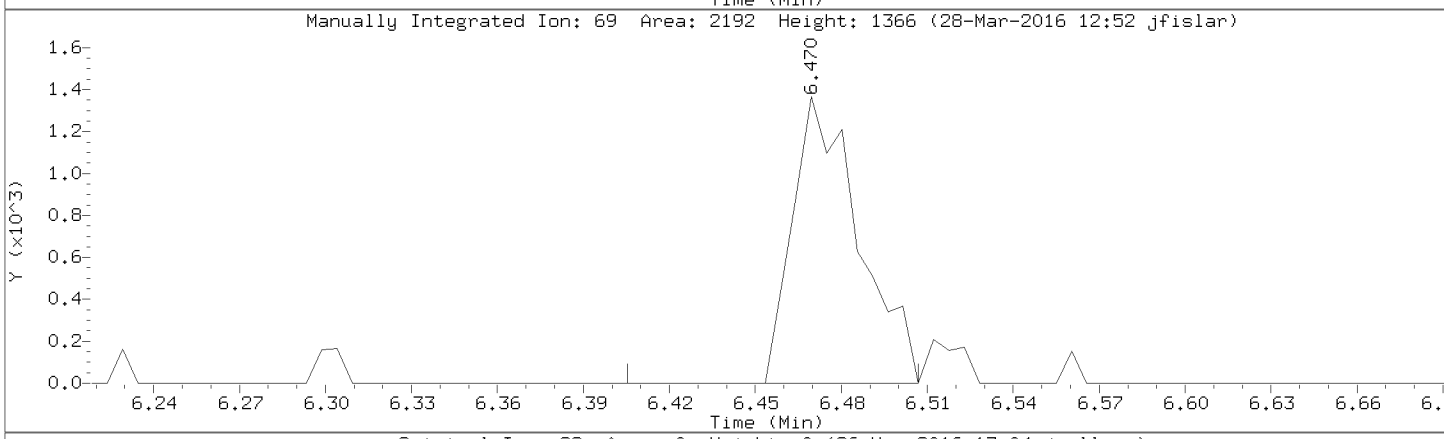


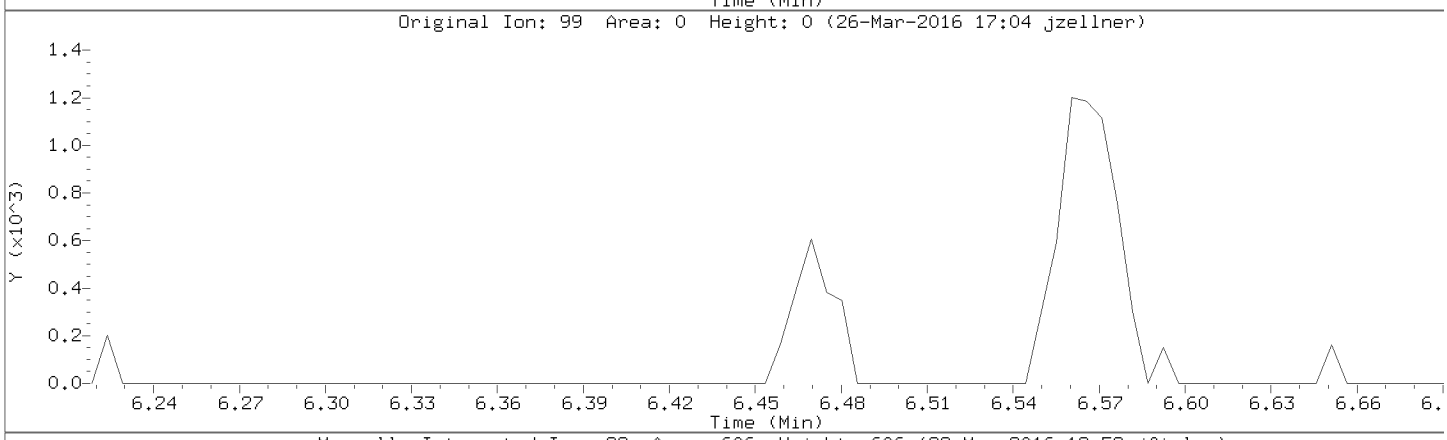


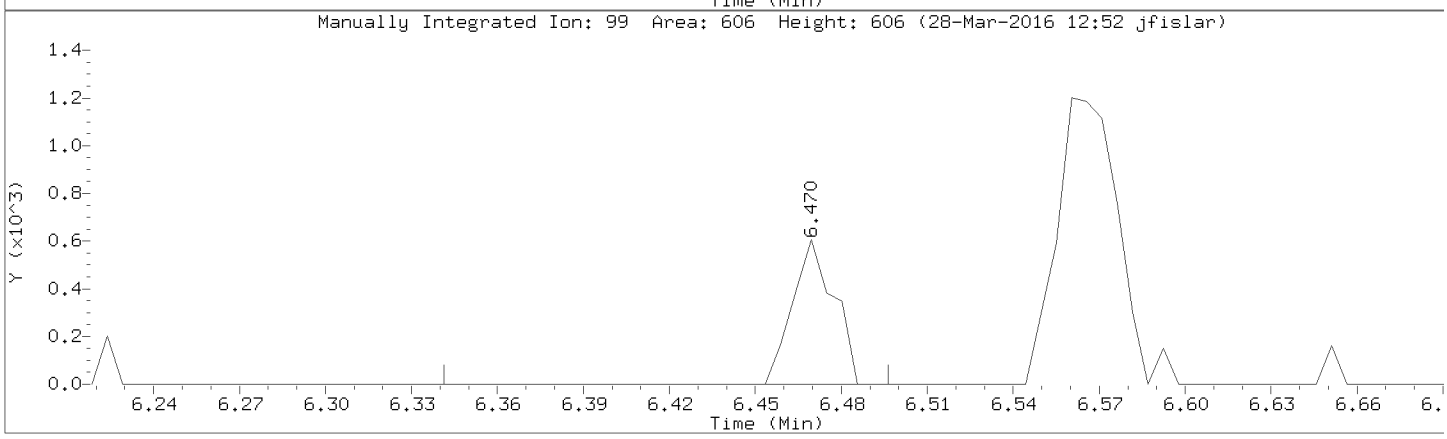
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

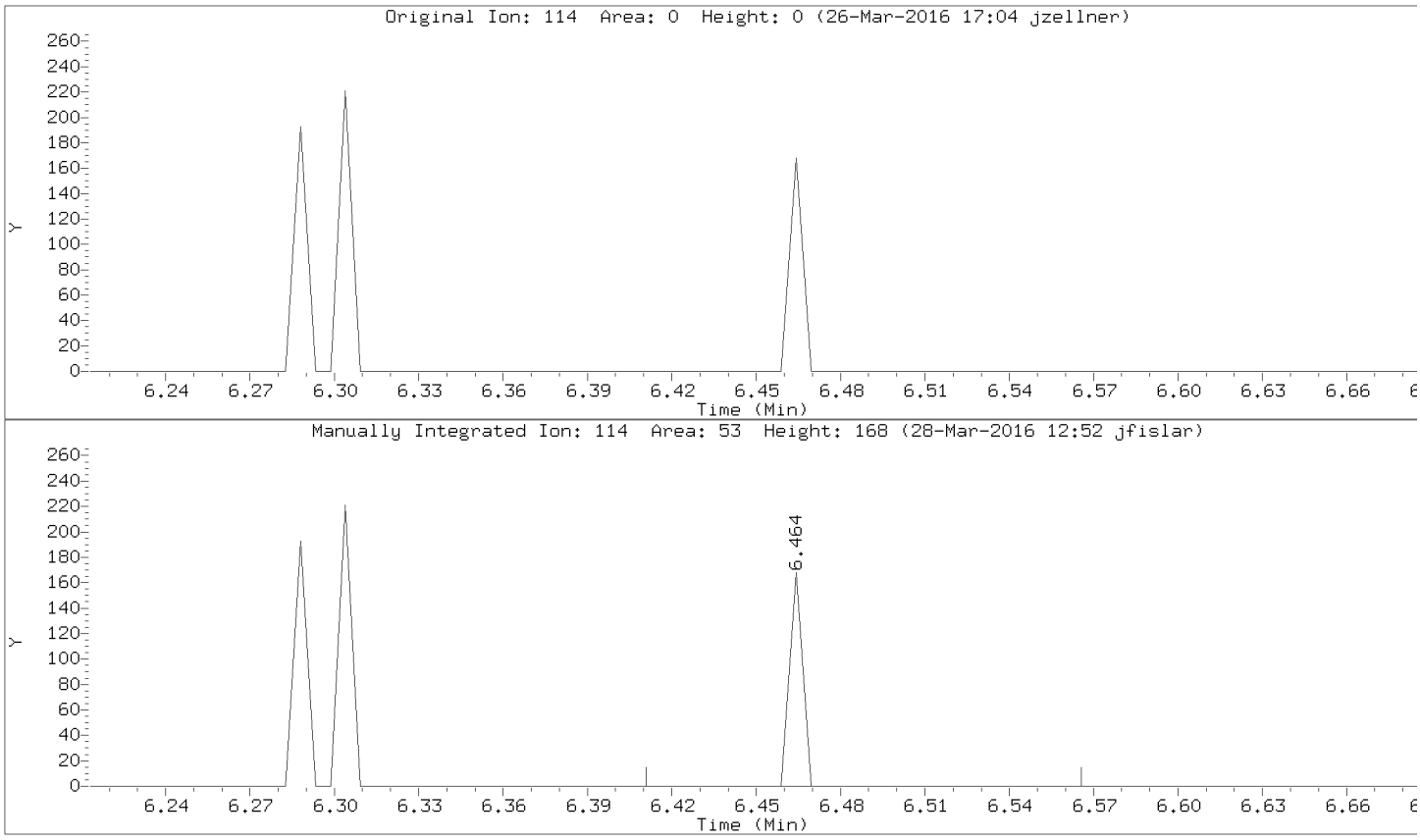






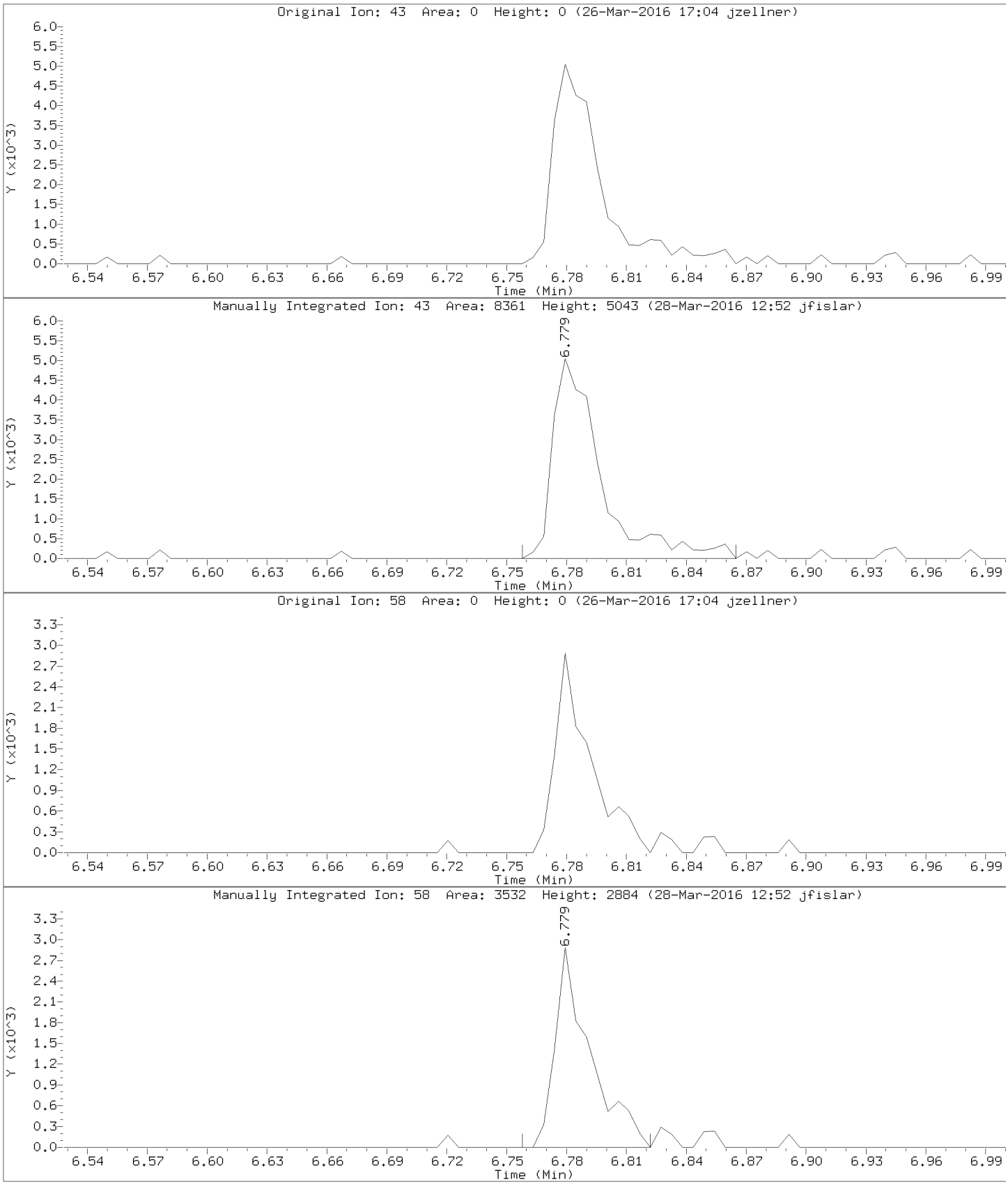


Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

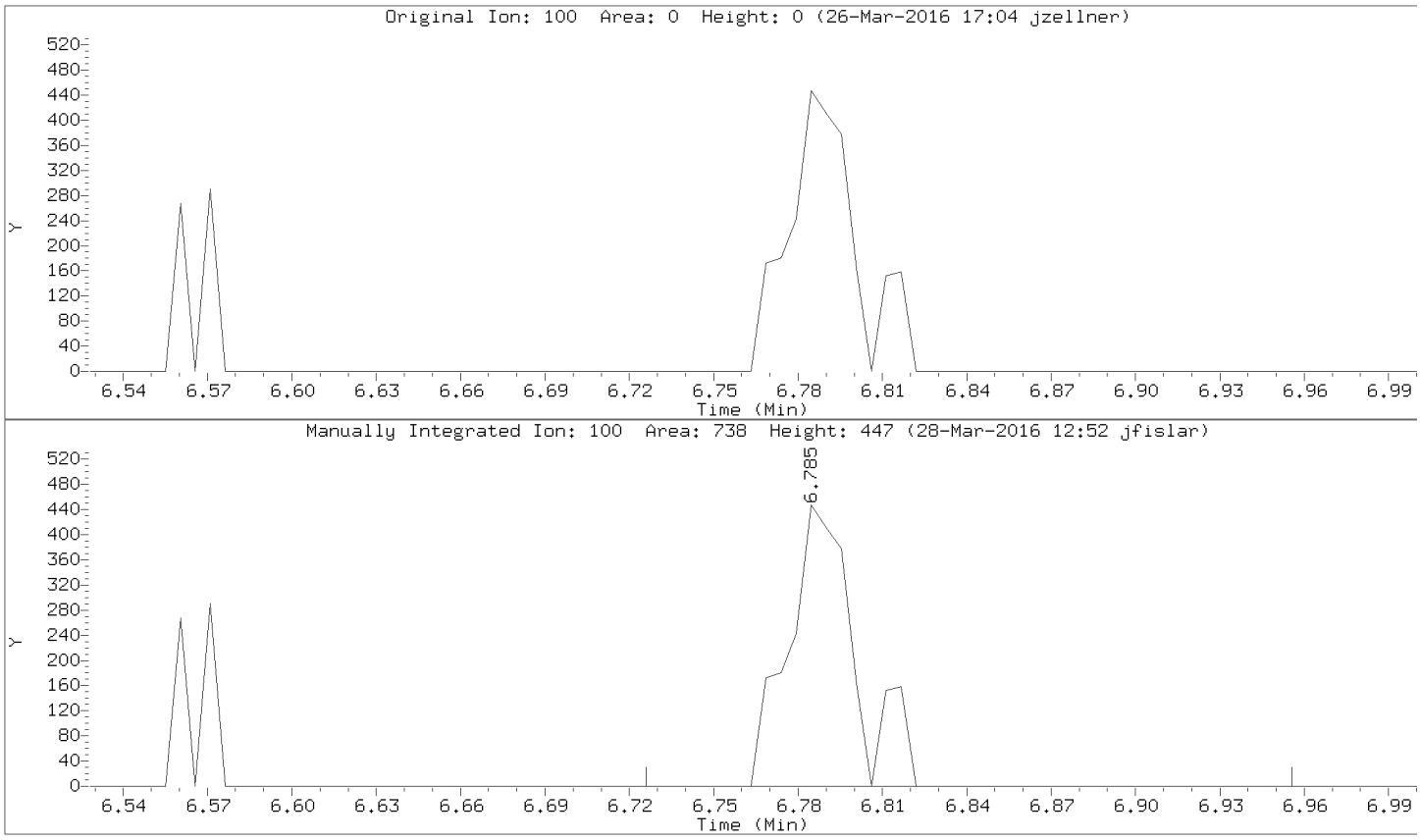


Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6

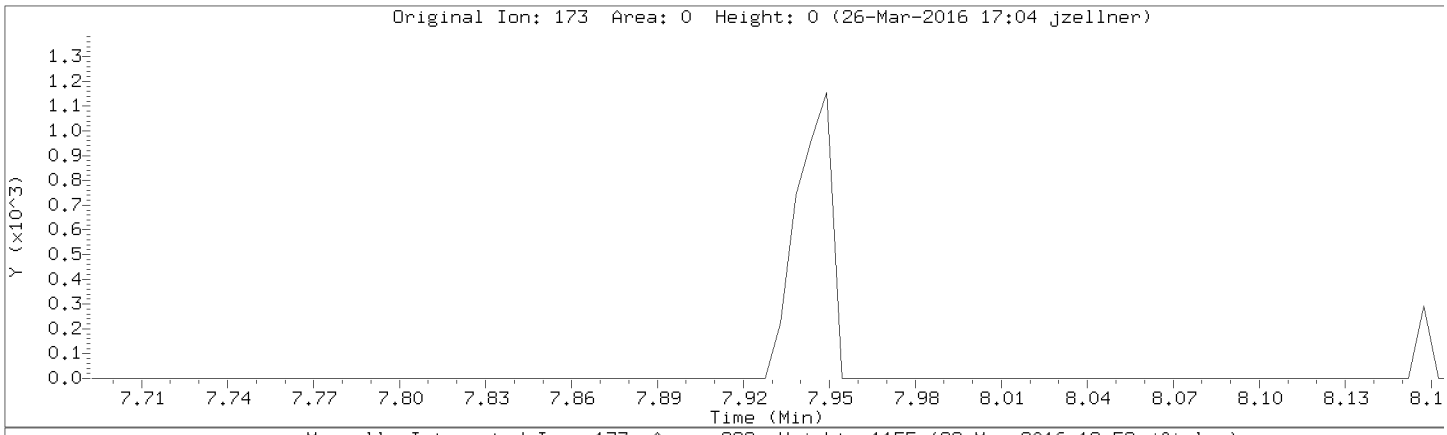


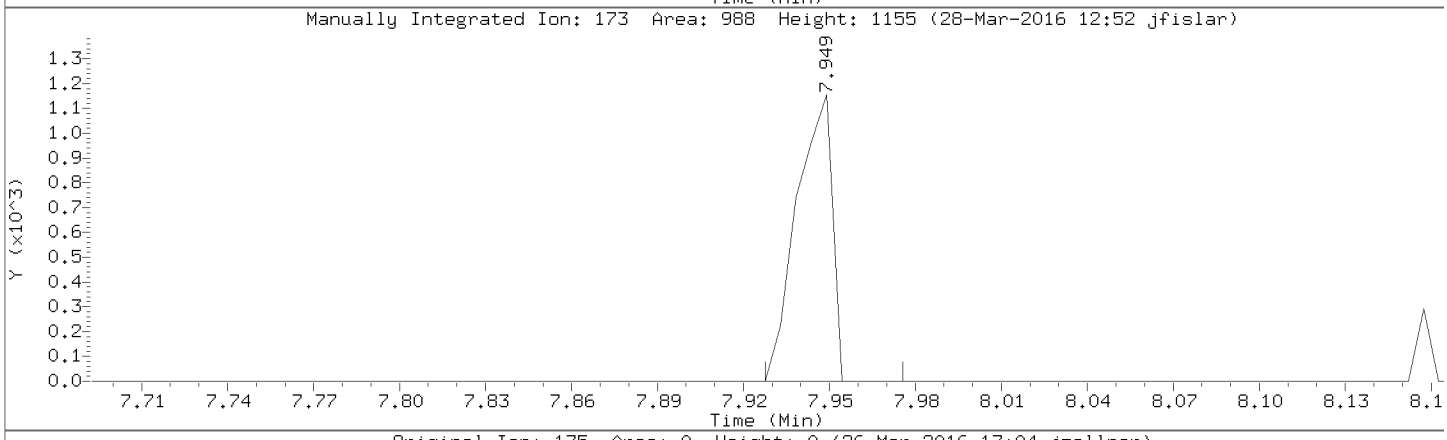
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

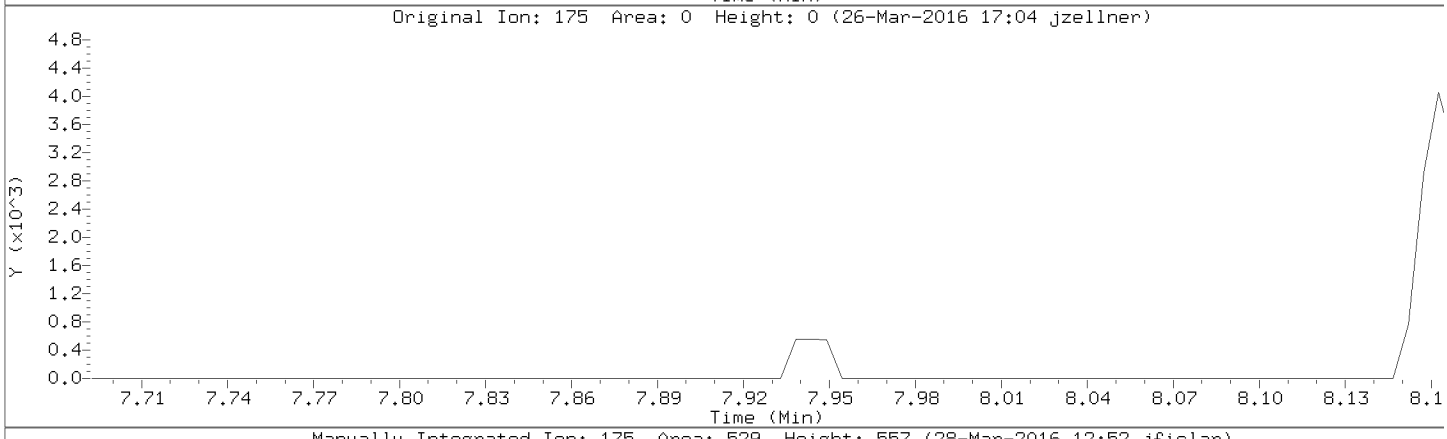


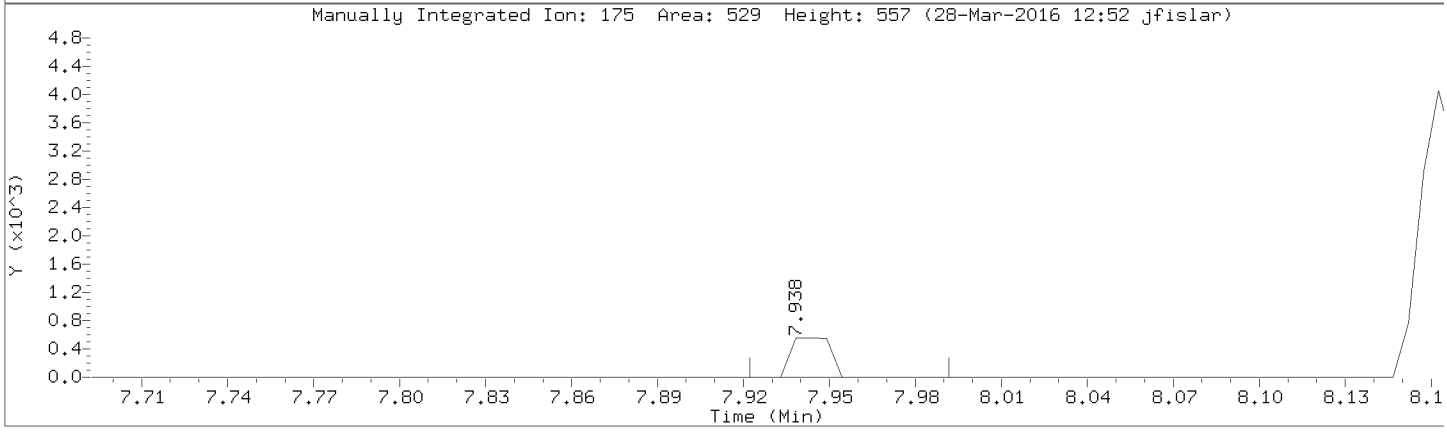
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

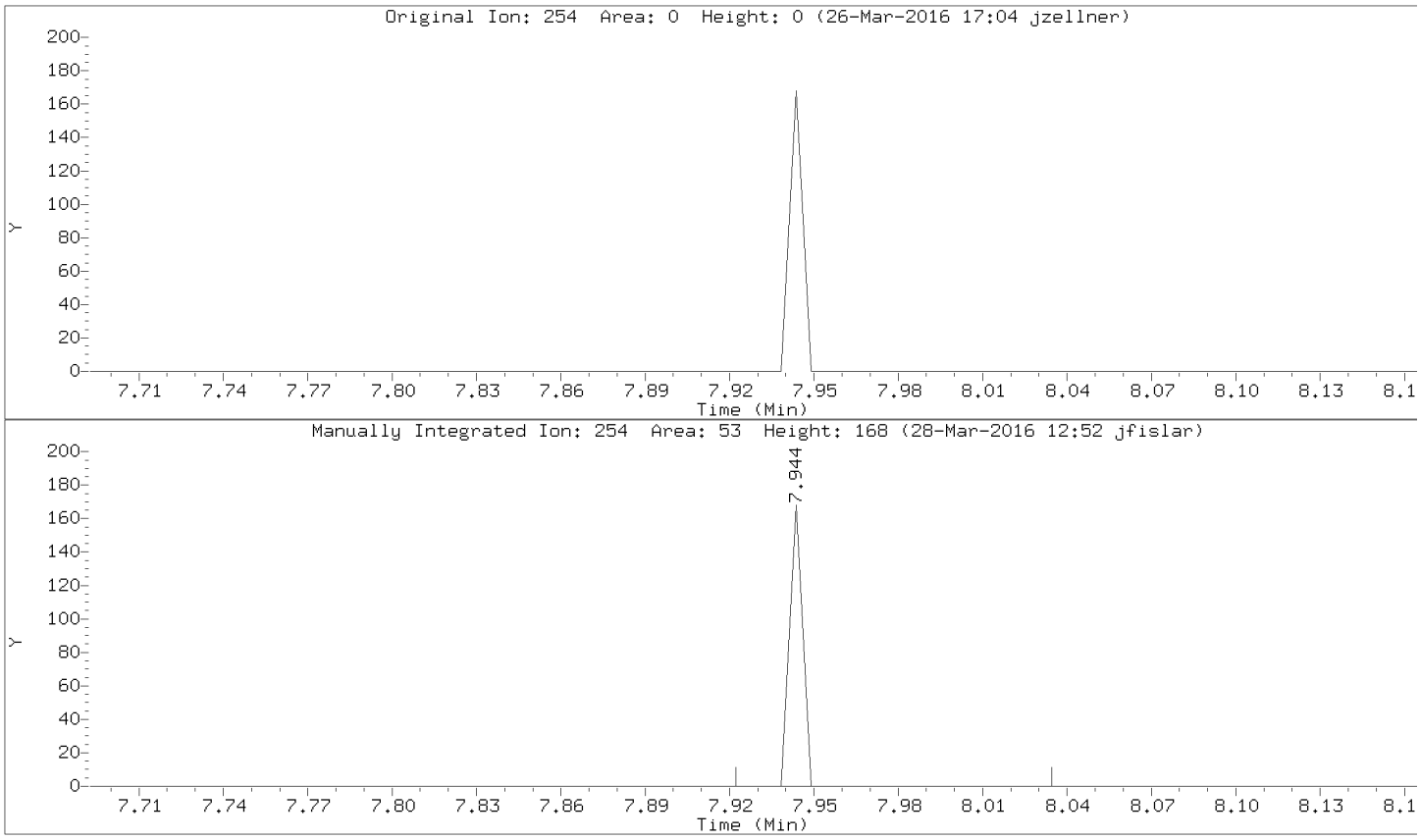






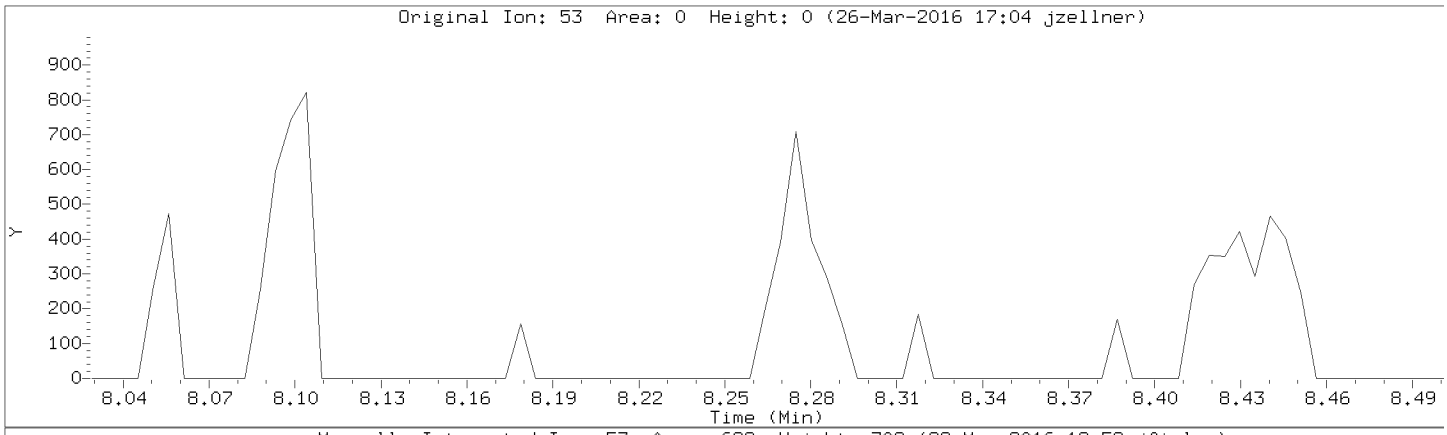


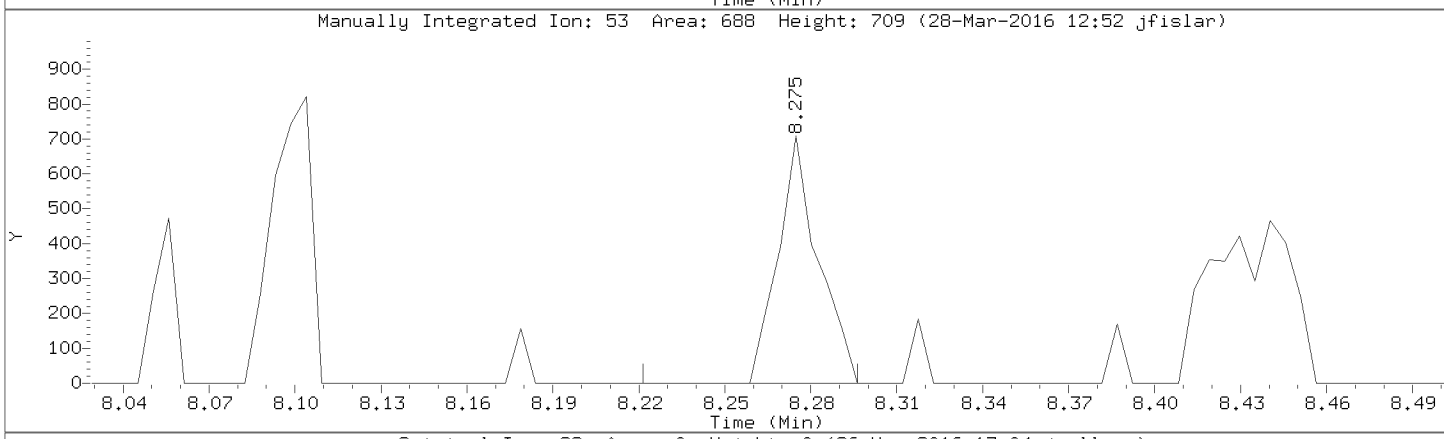
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

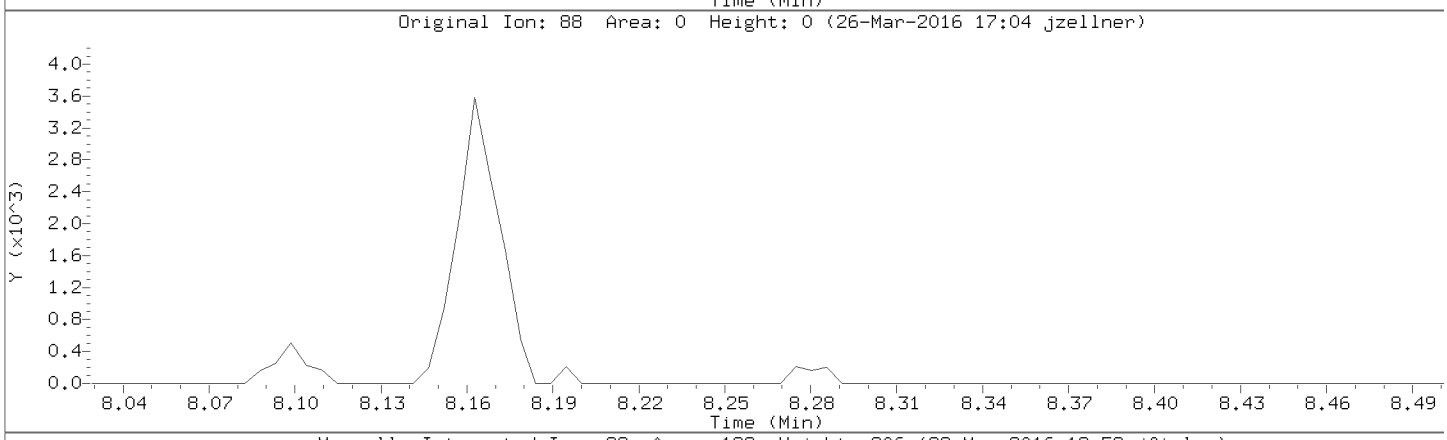


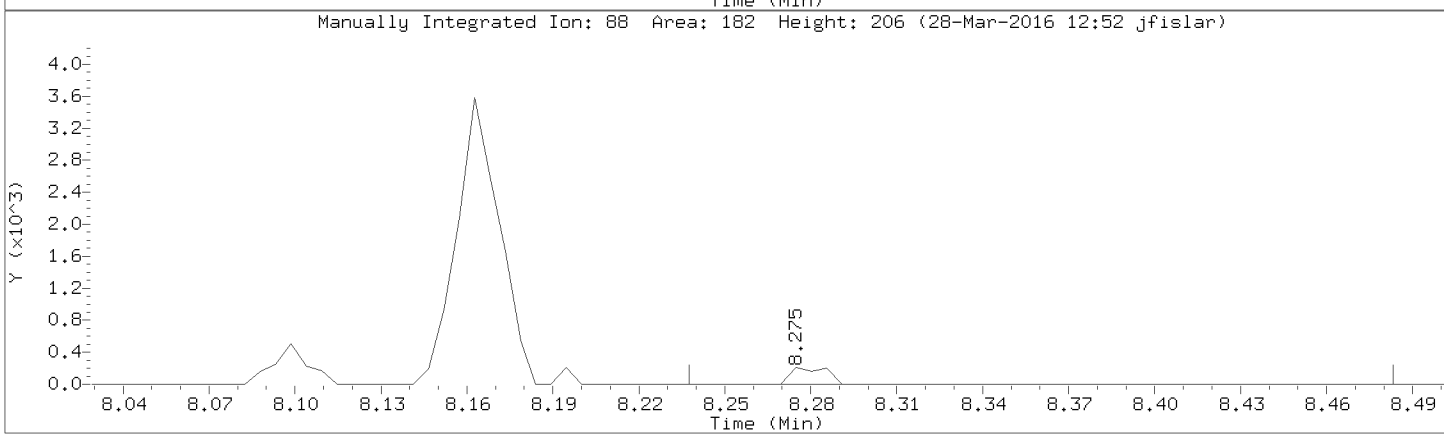
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: trans-1,4-Dichloro-2-butene Review Code: NI
CAS Number:

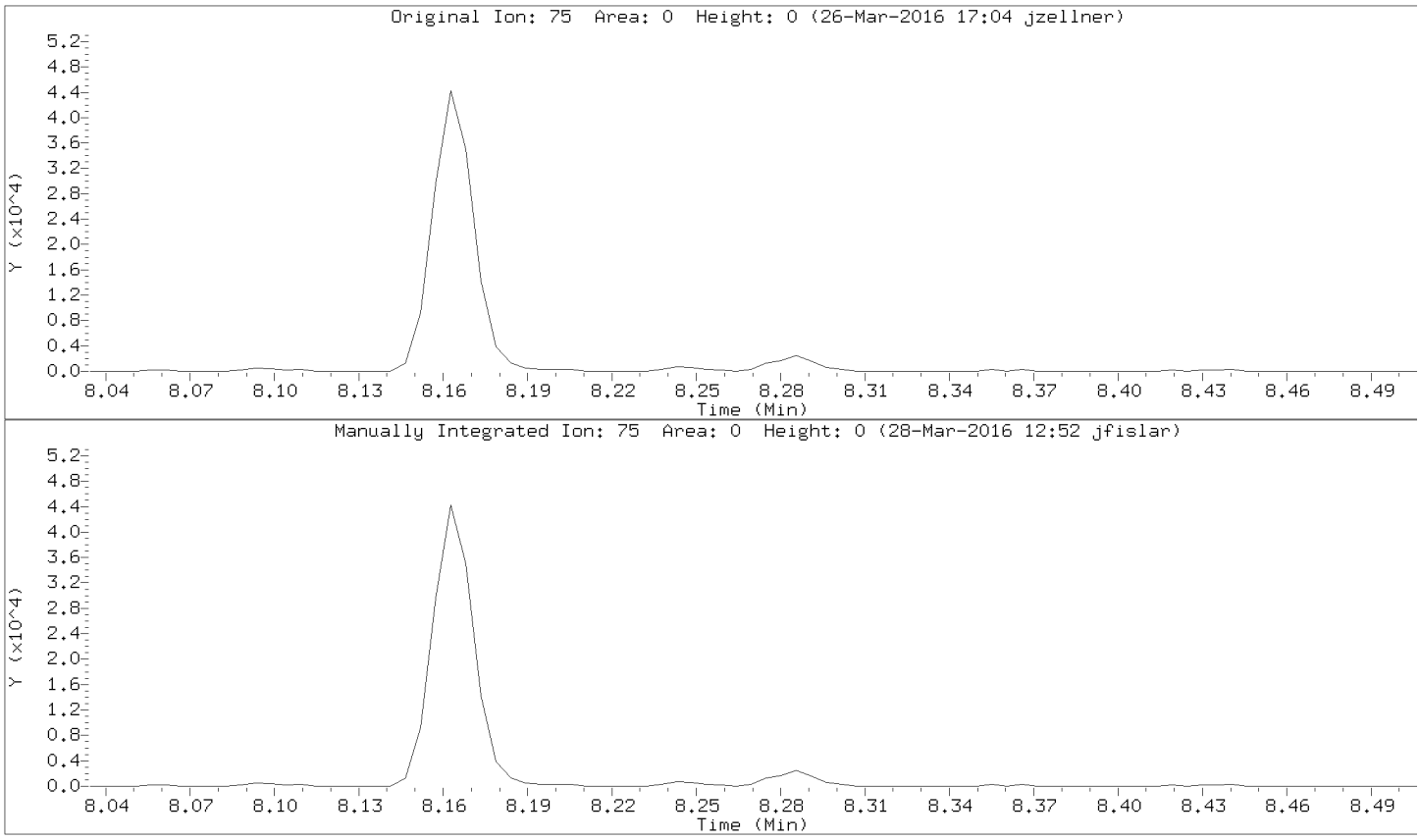






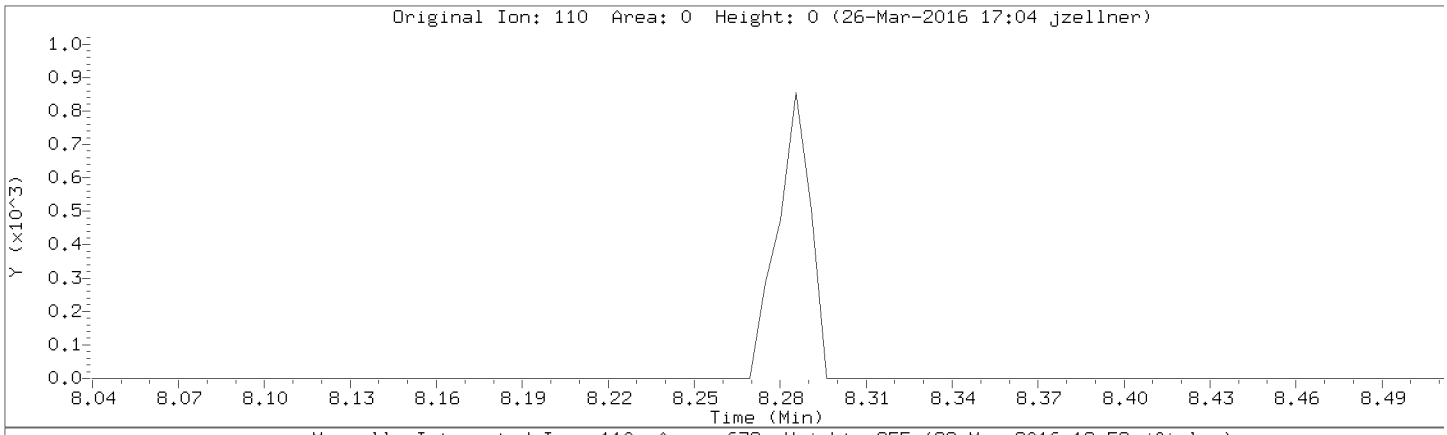


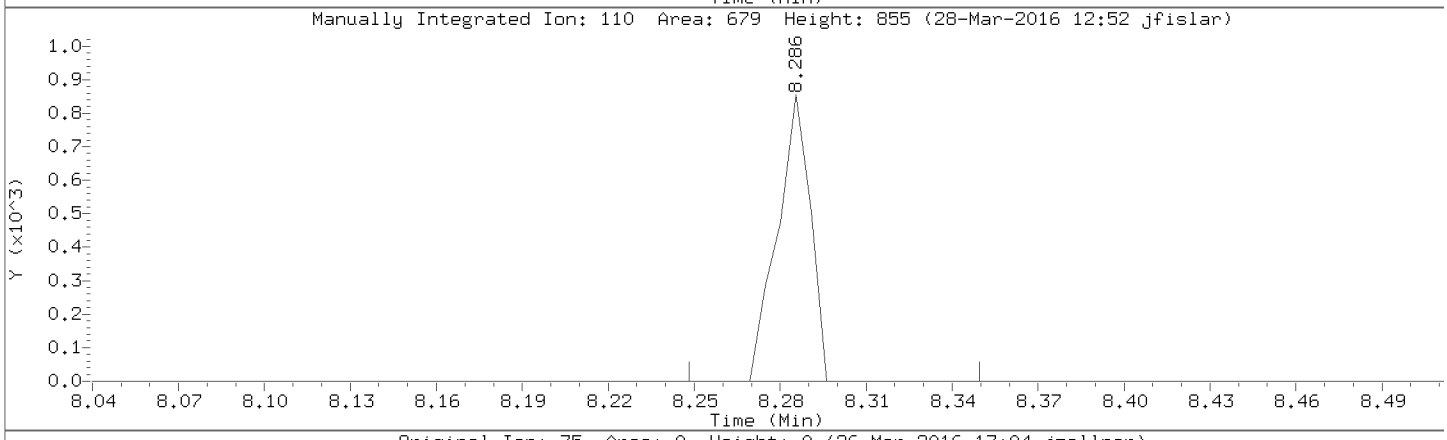
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

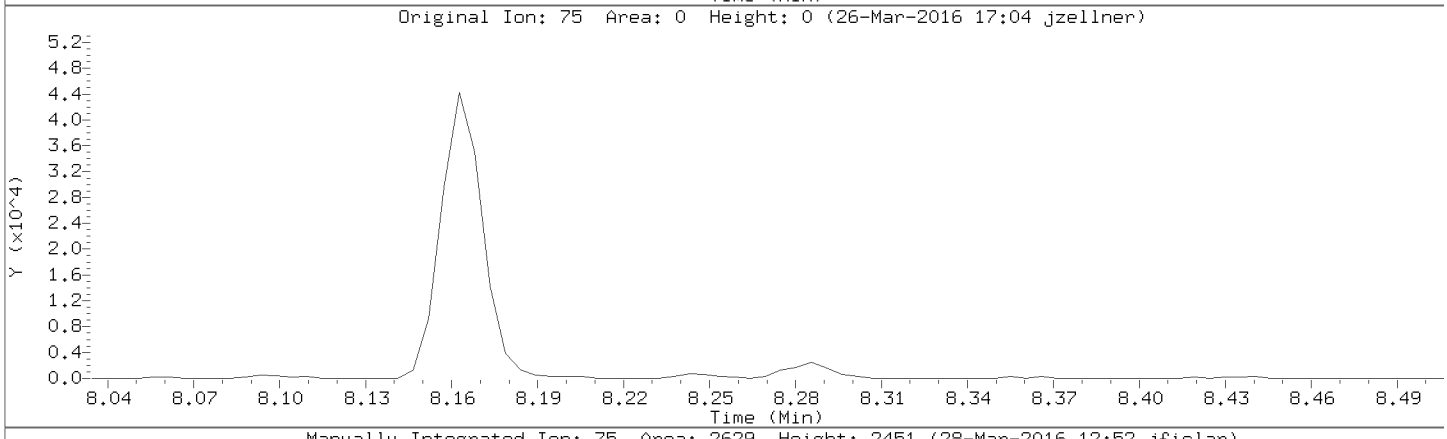


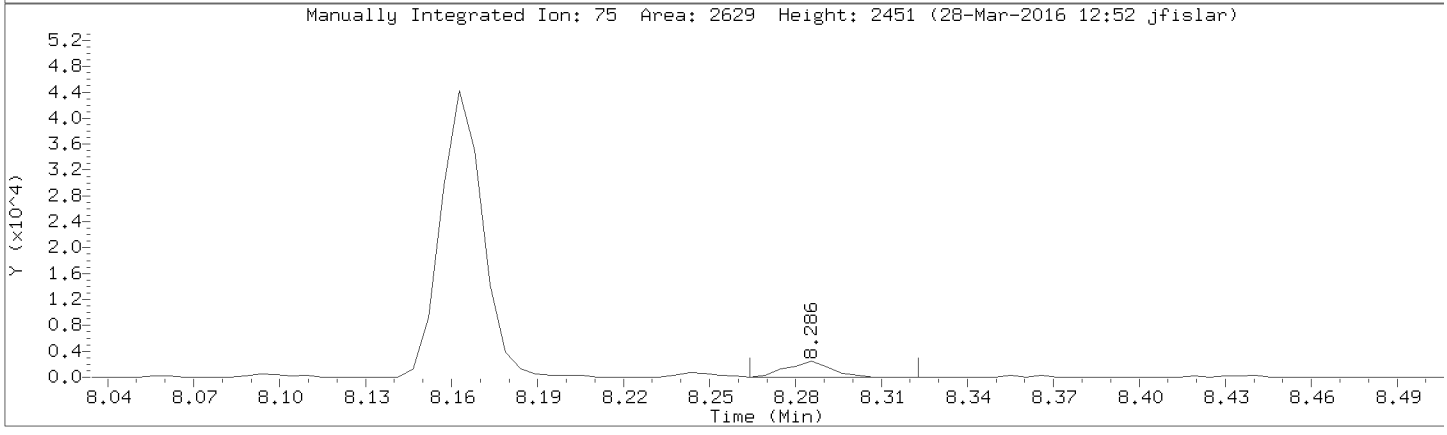
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2,3-Trichloropropane Review Code: NI
CAS Number: 96-18-4

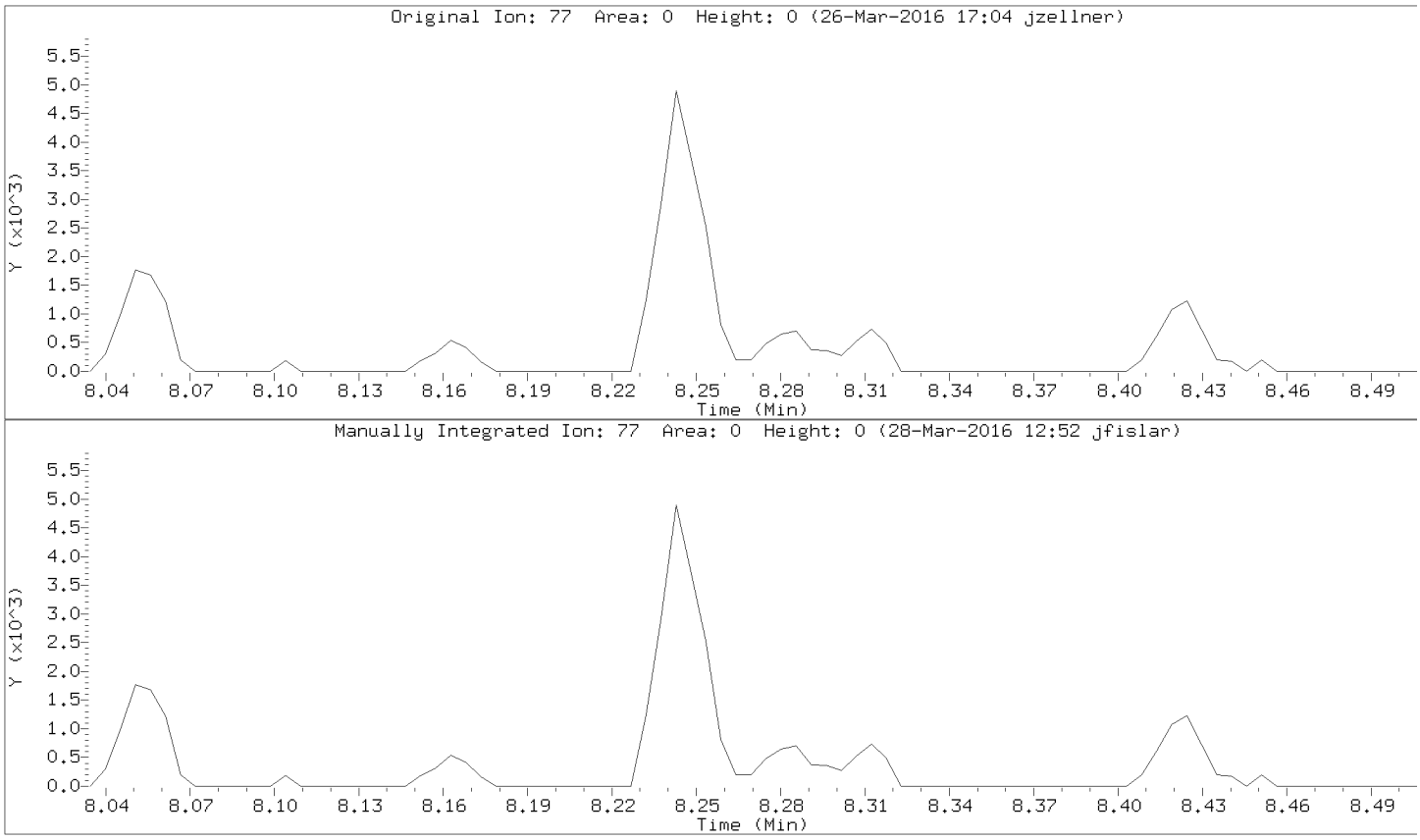






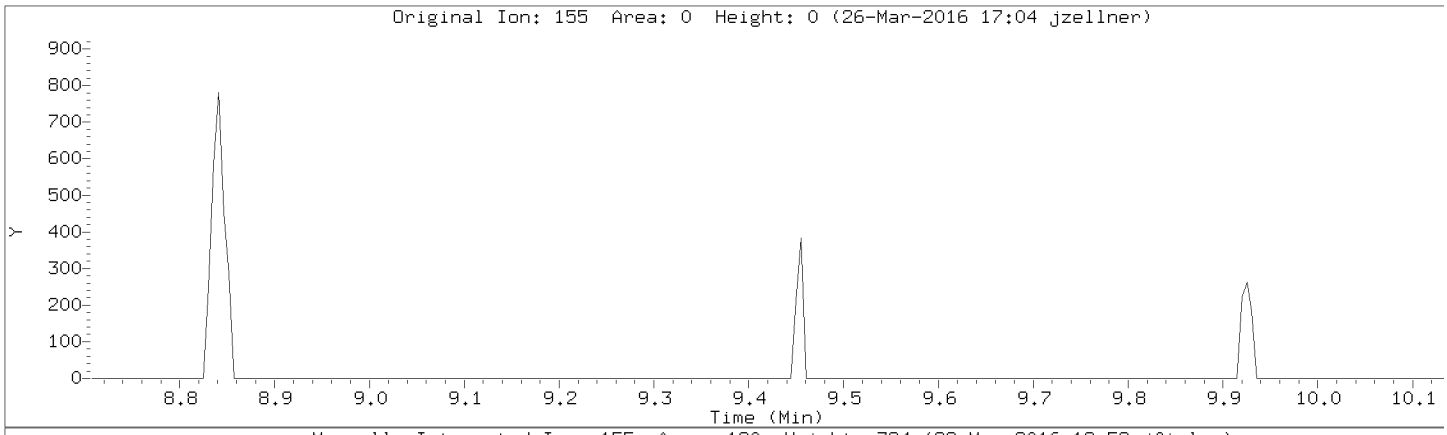


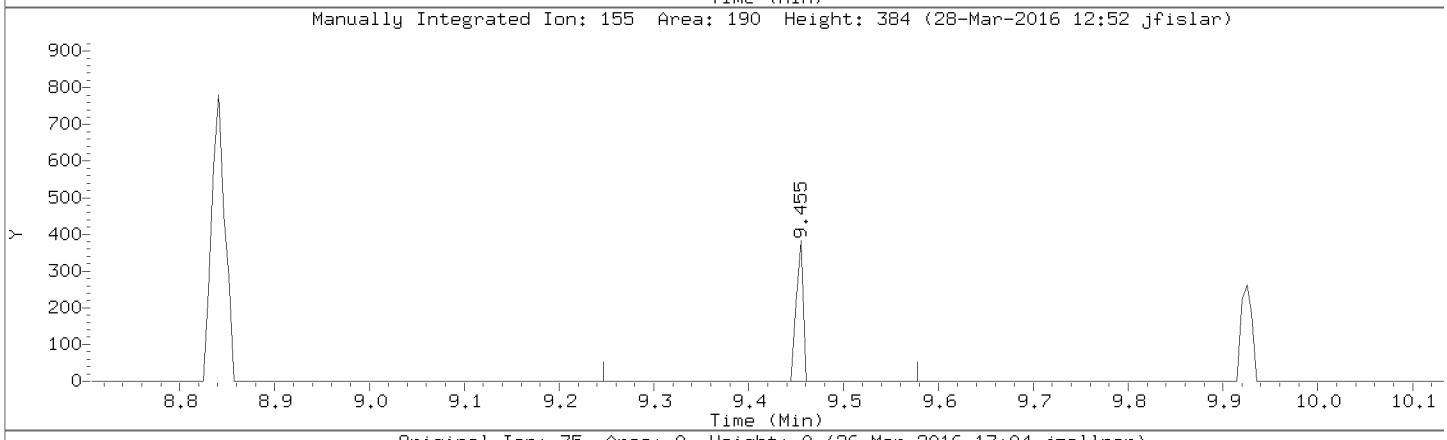
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

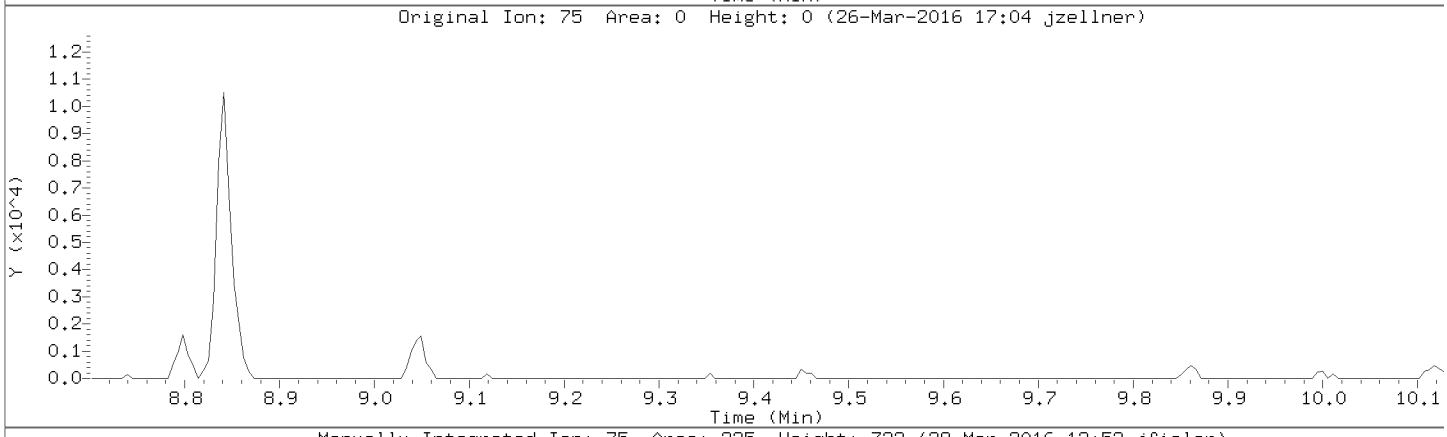


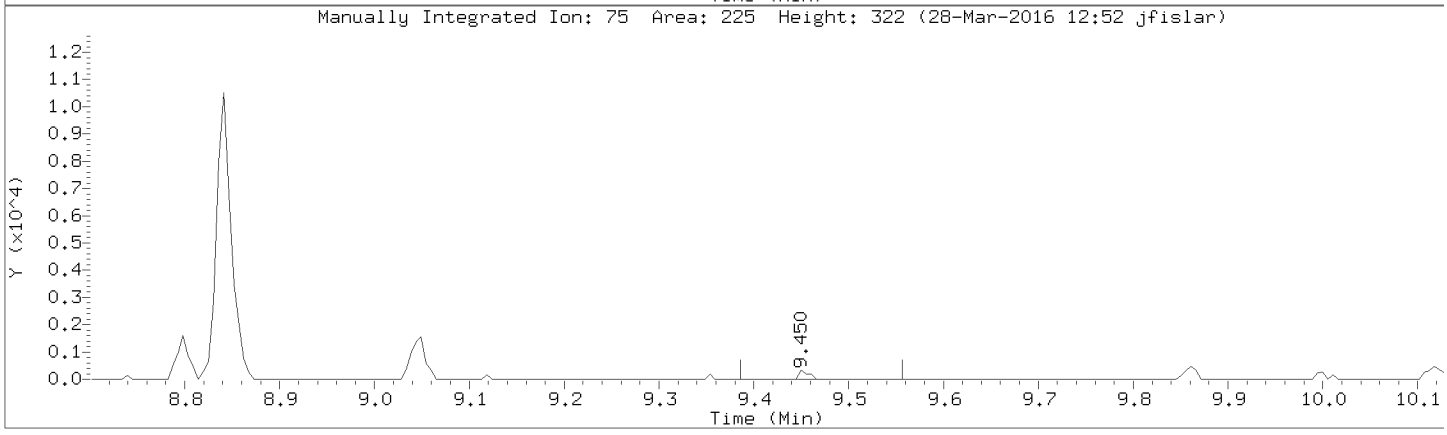
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8

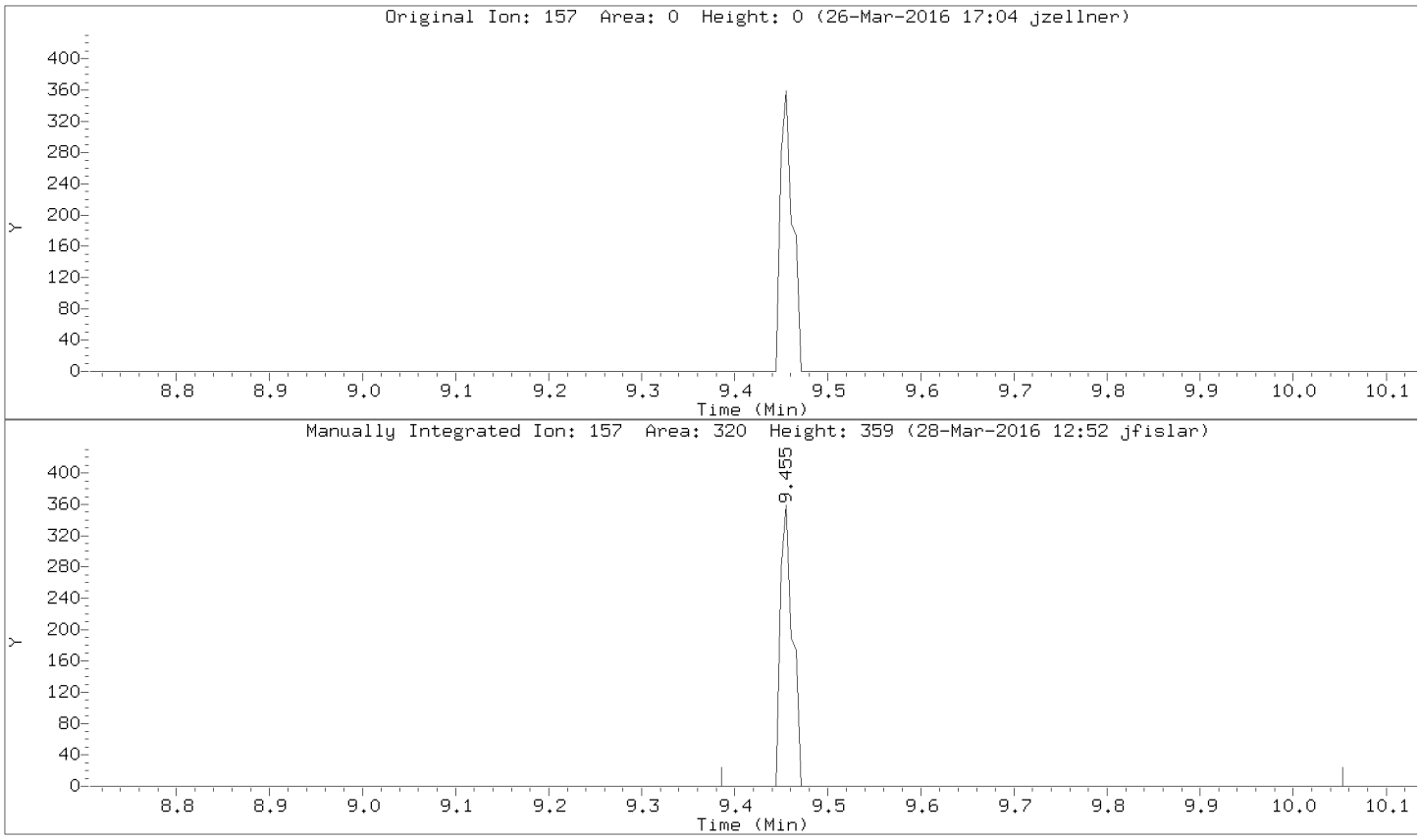






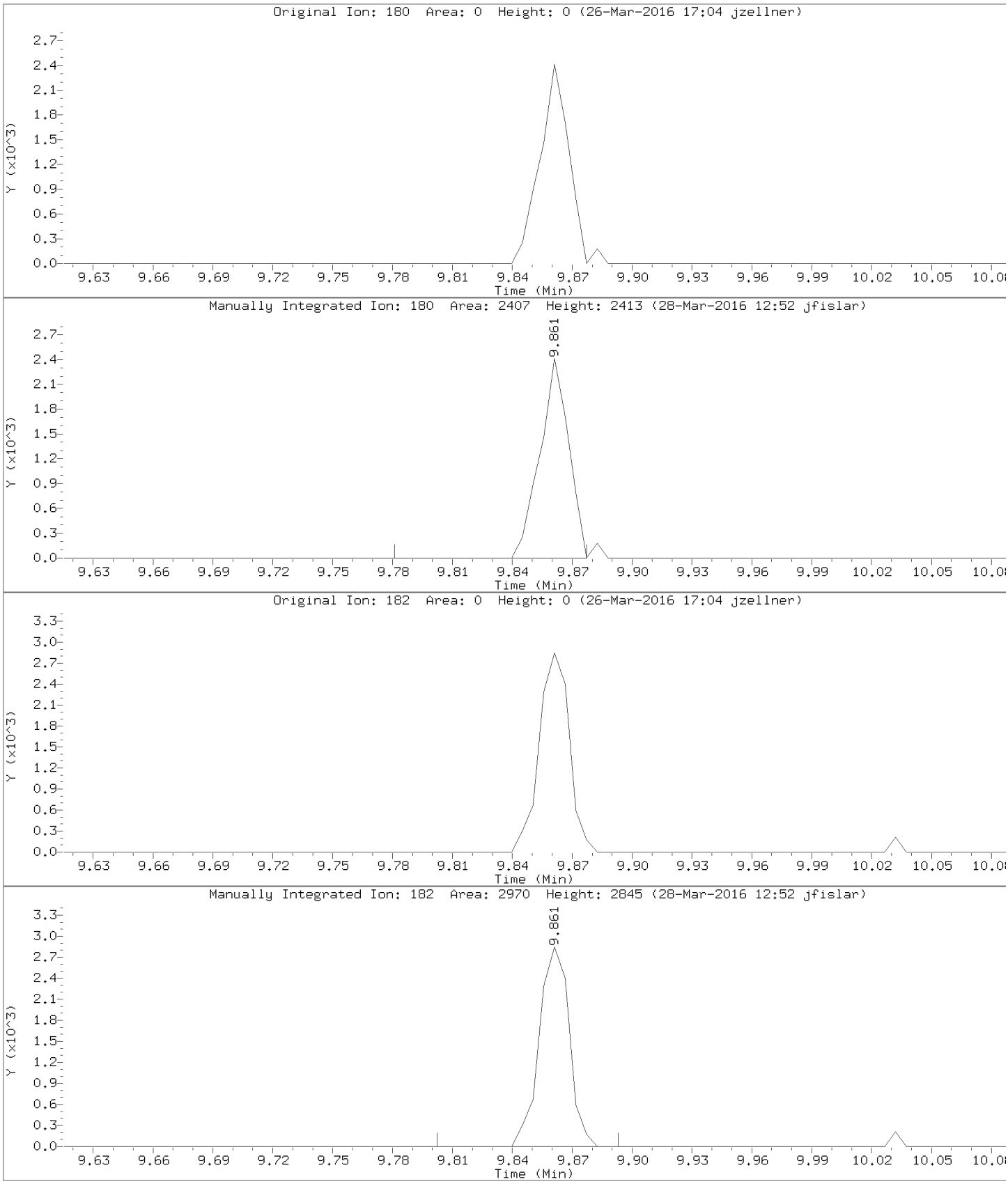


Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

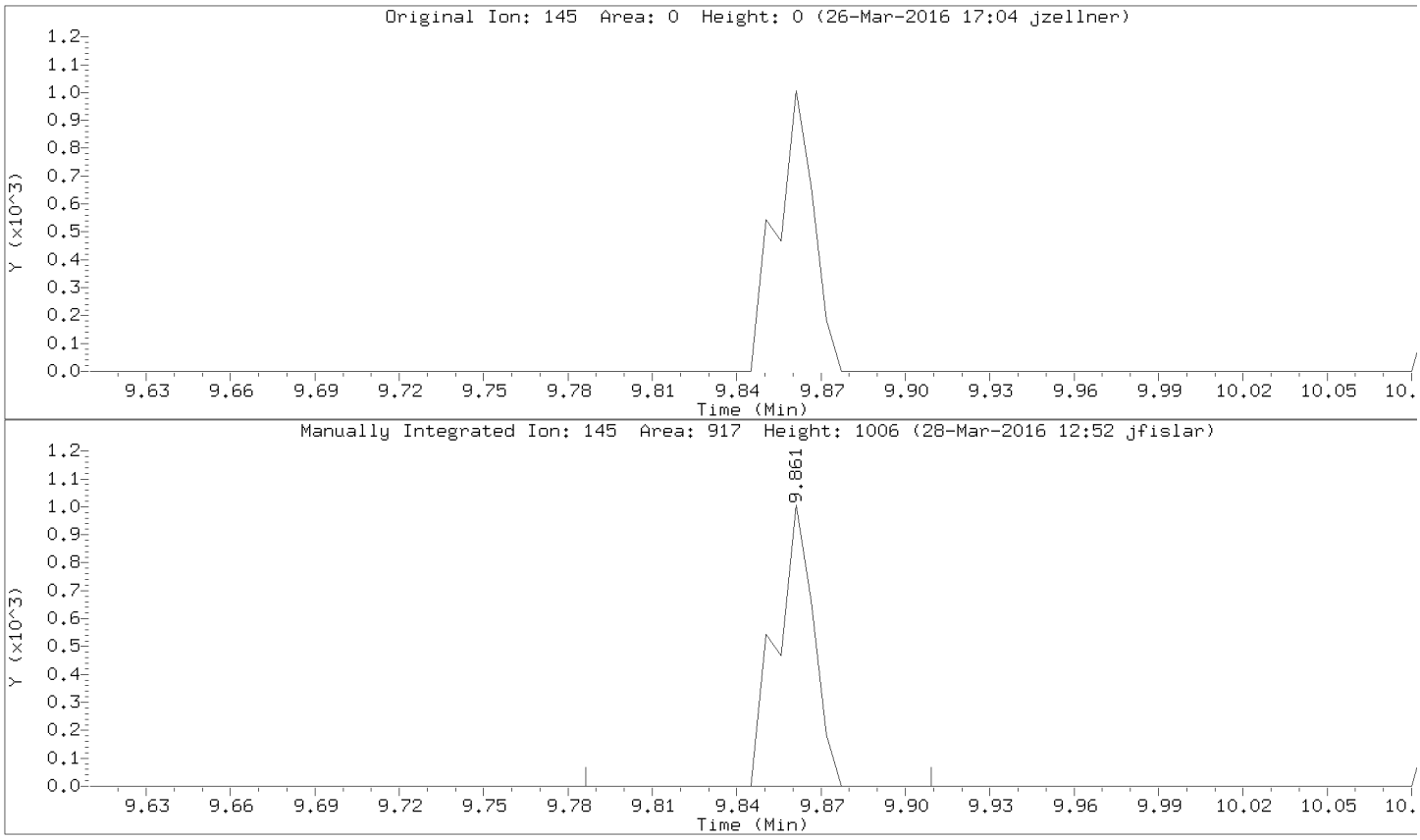


Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1

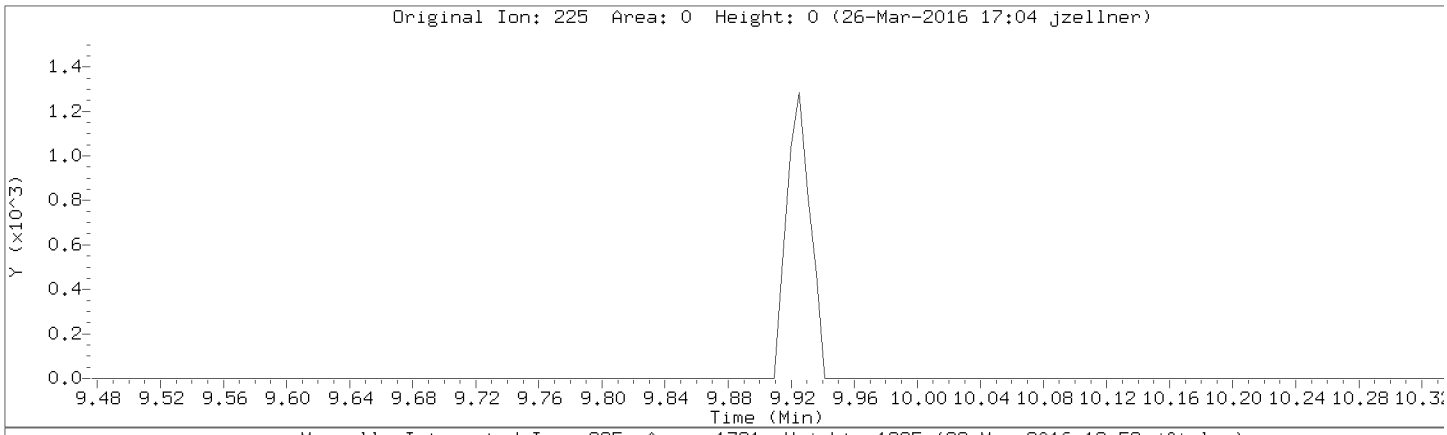


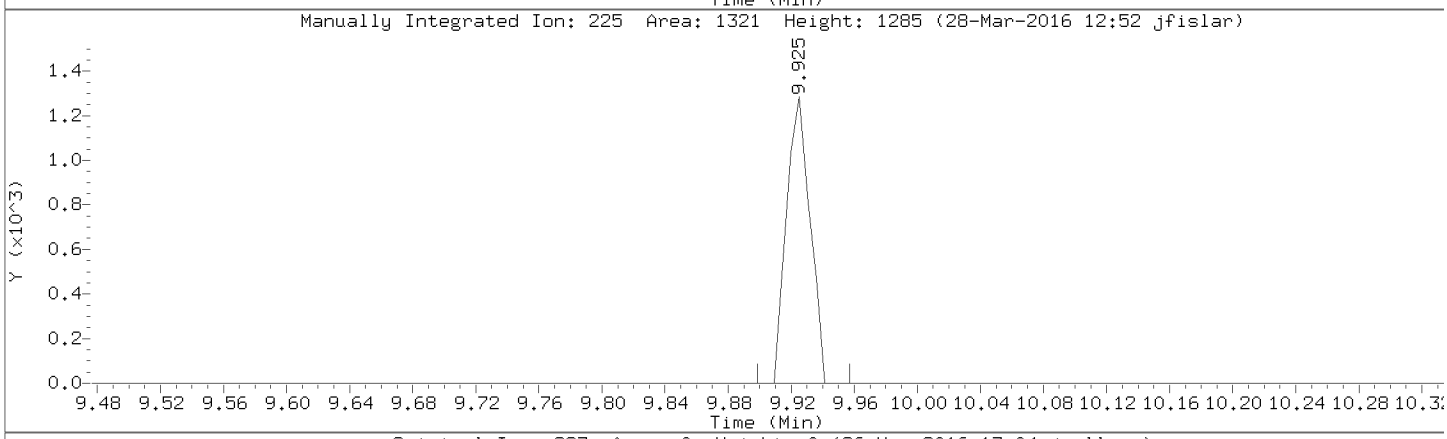
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

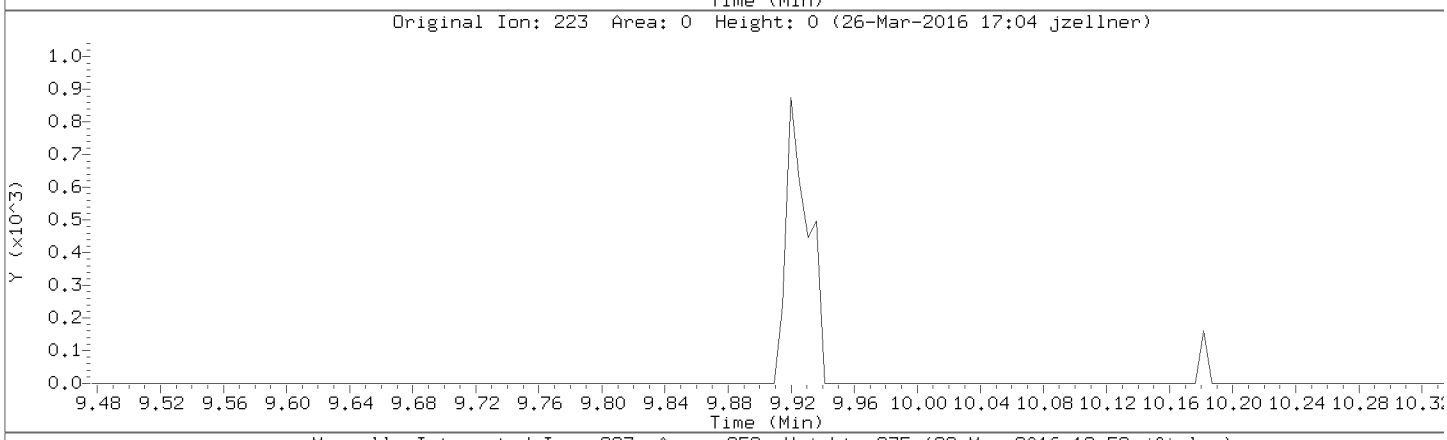


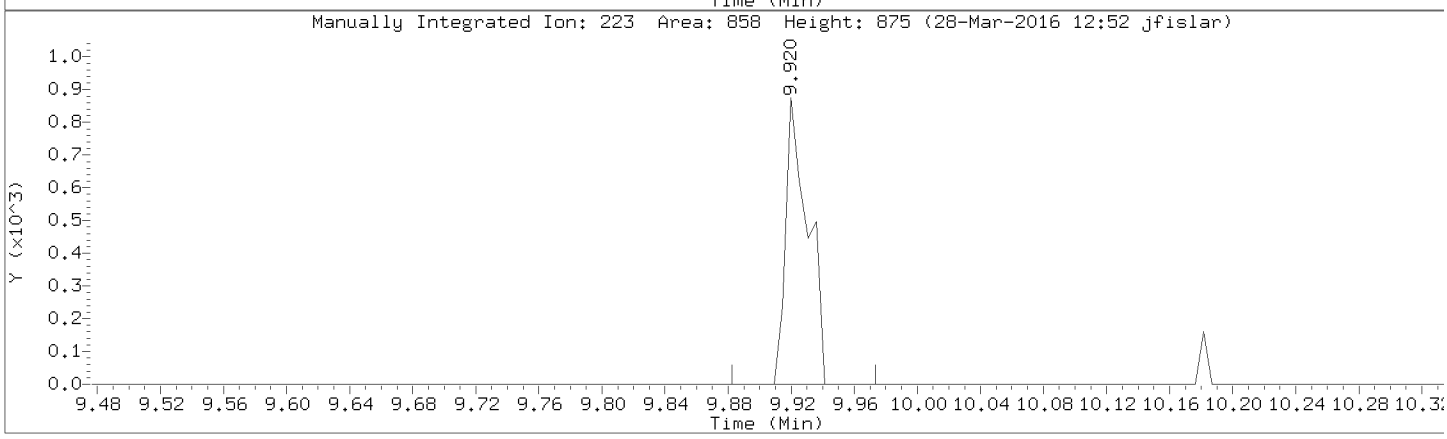
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3

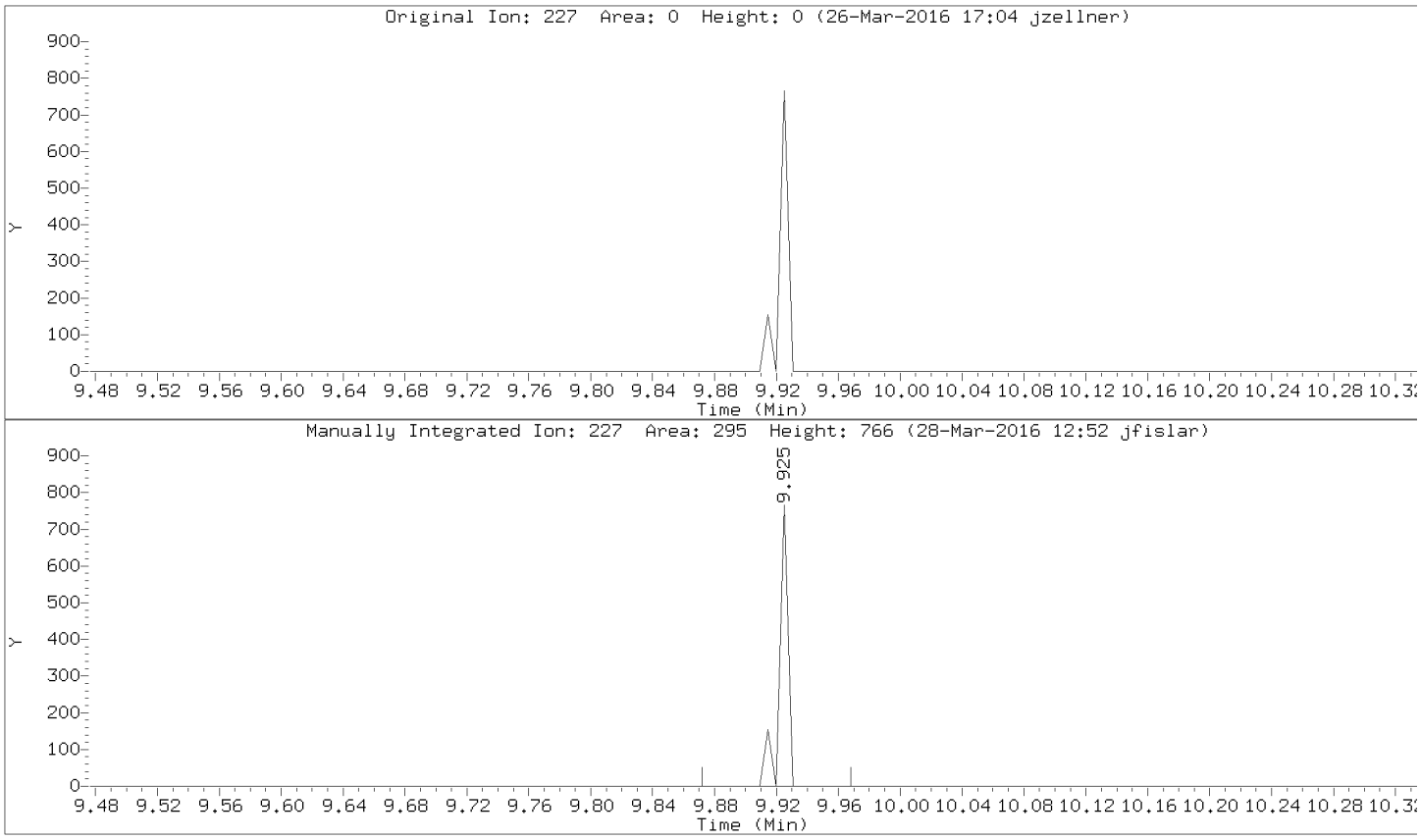






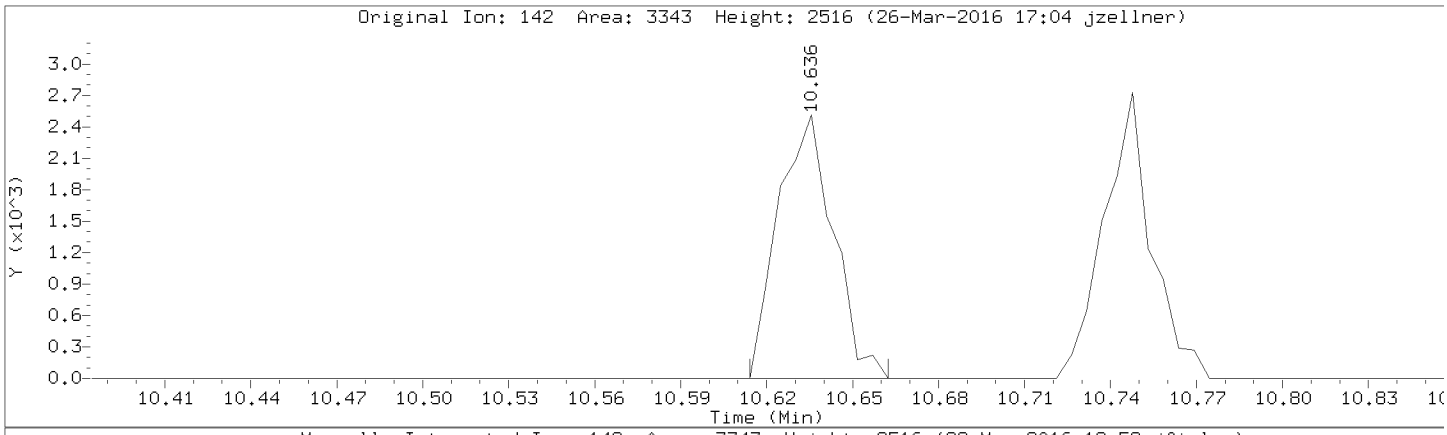


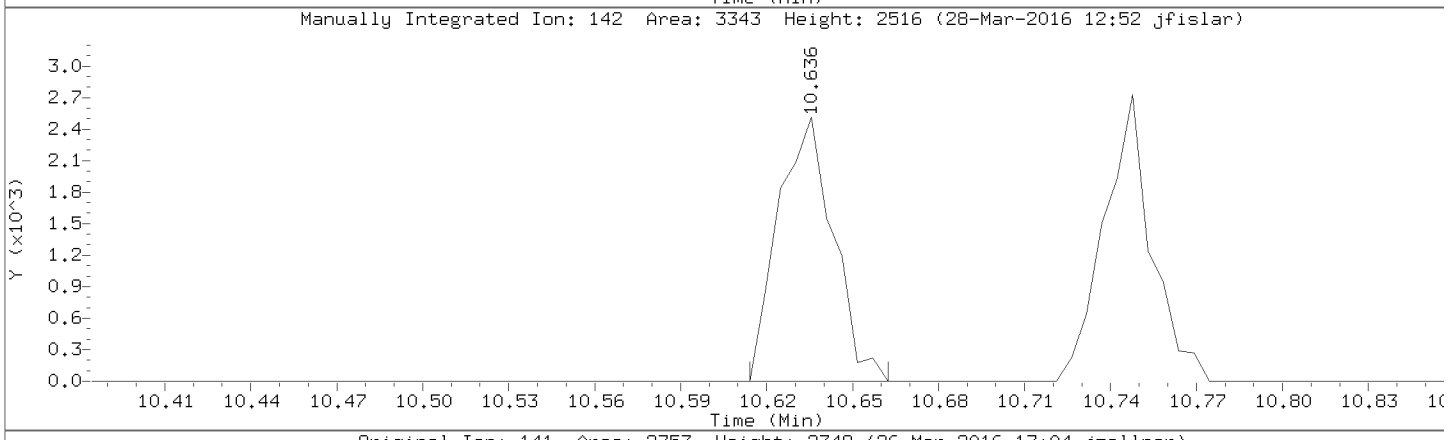
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

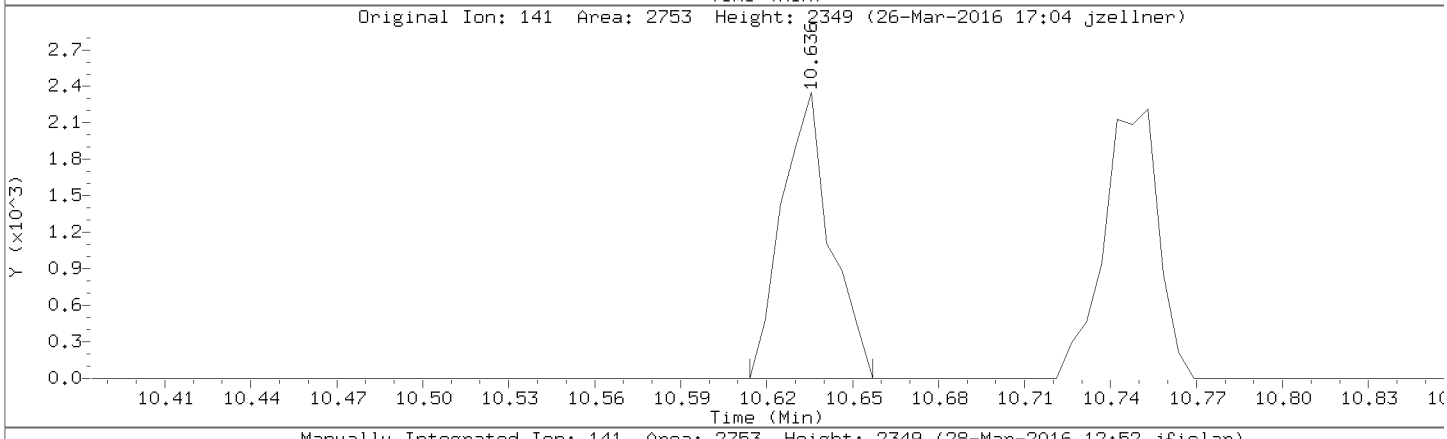


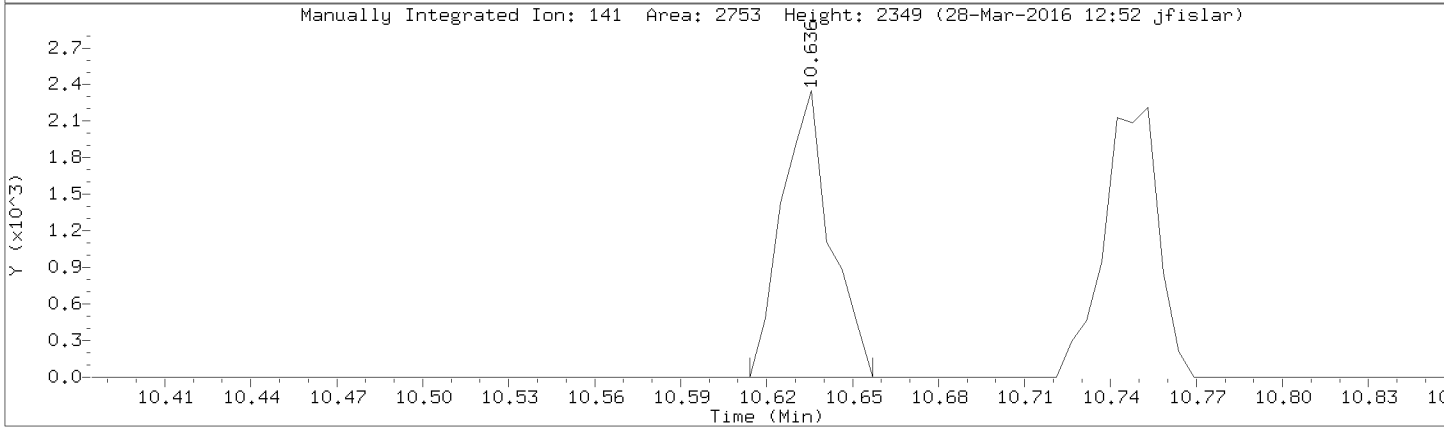
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2,methyl-naphthalene Review Code: WP
CAS Number:

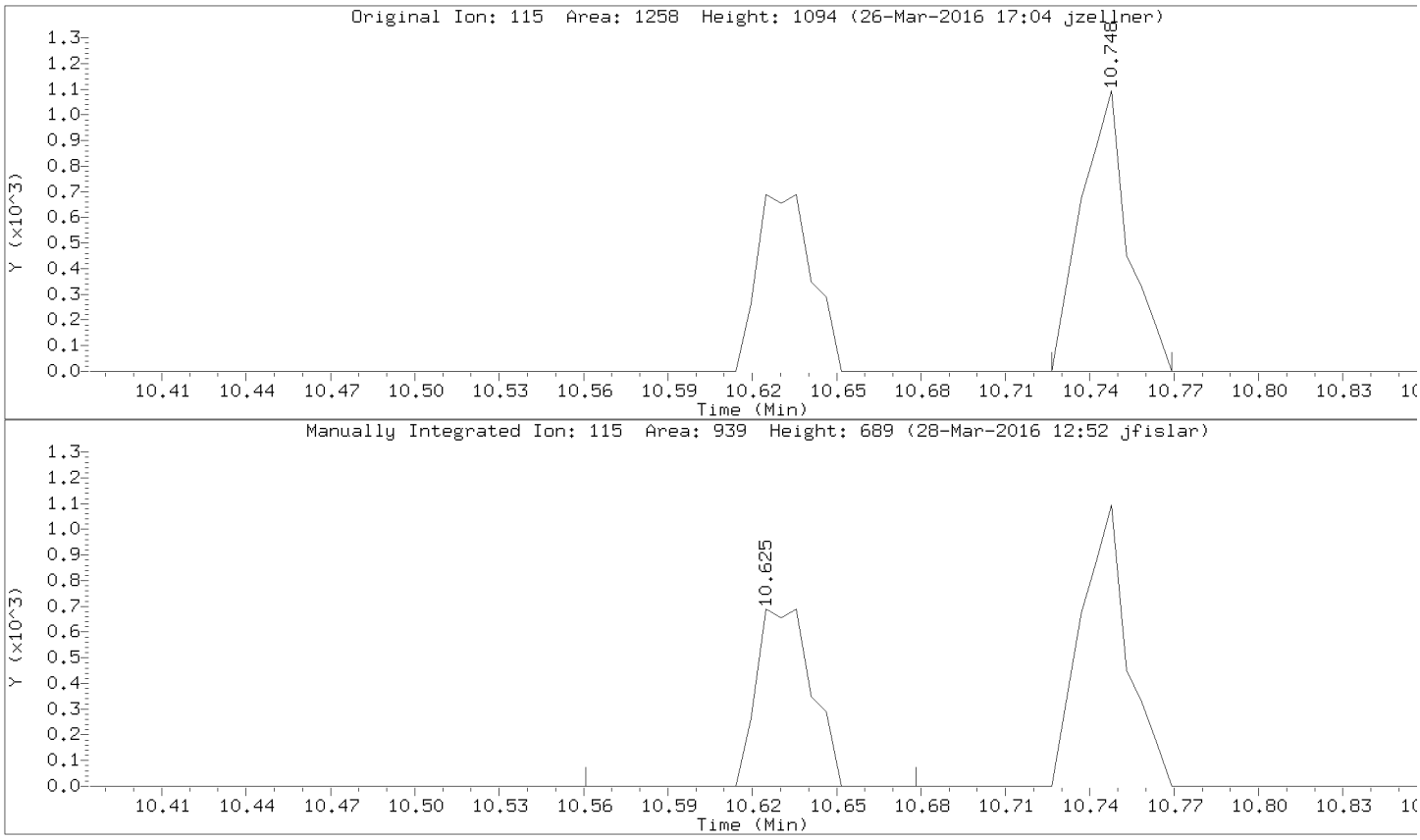






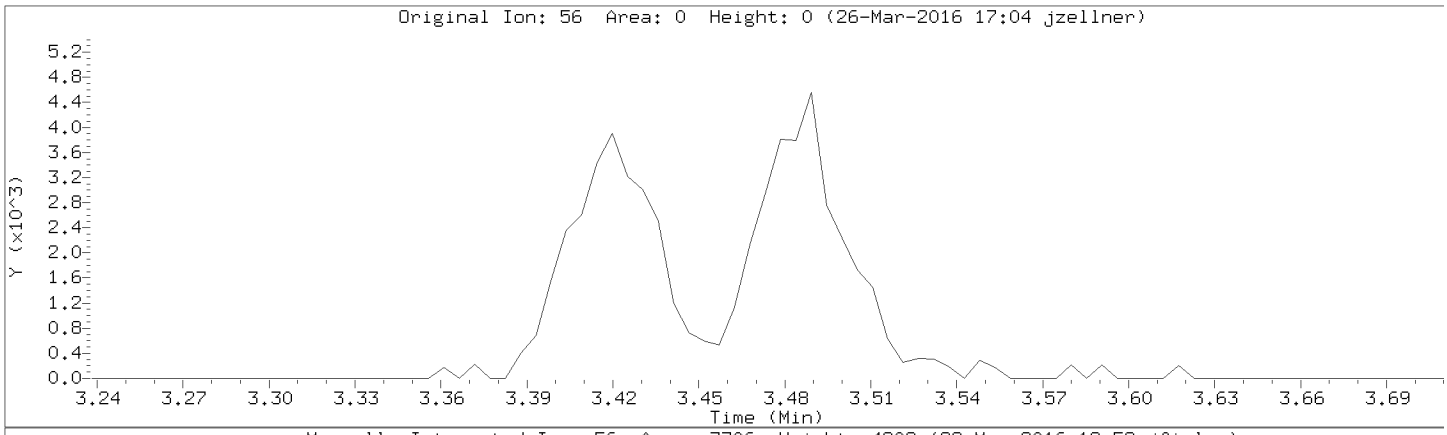


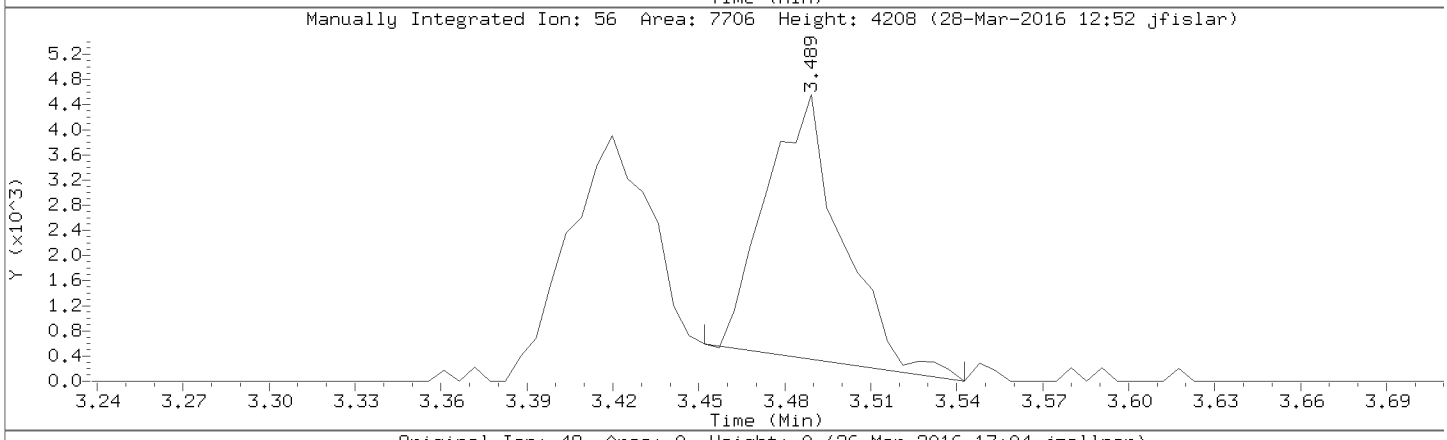
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

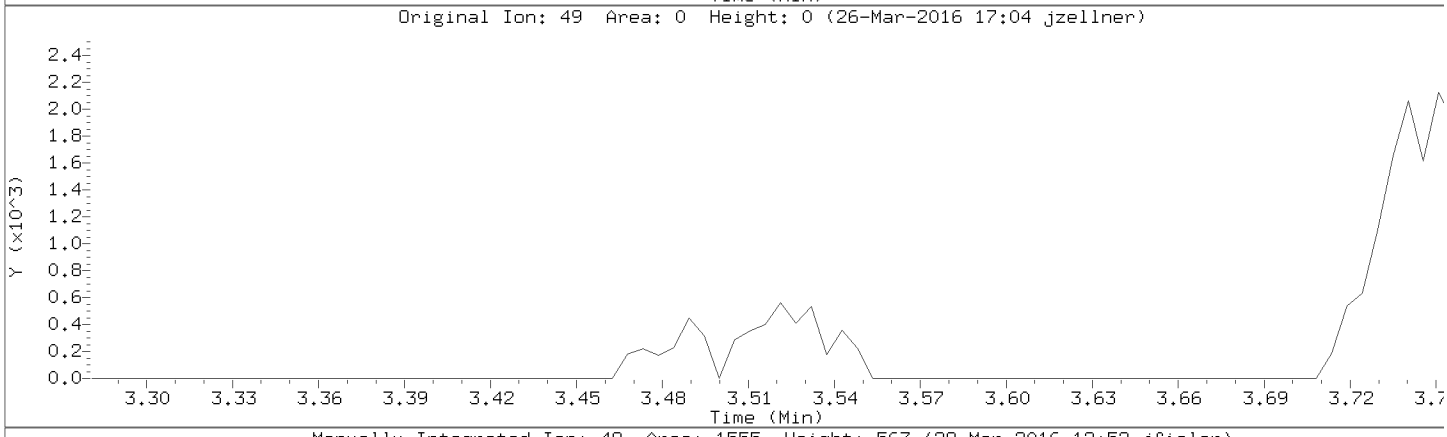


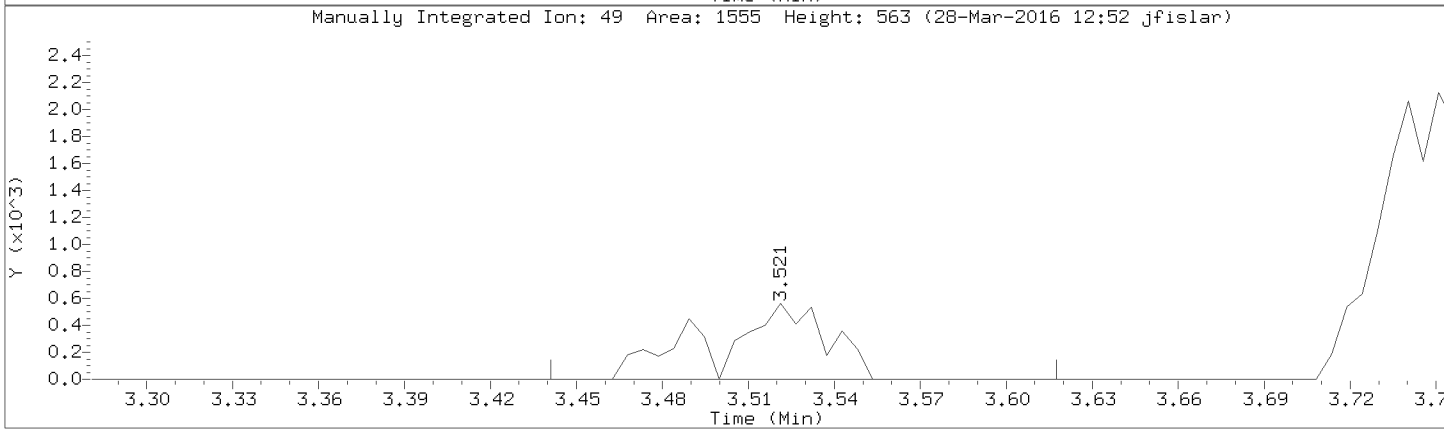
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: n-Butyl chloride Review Code: NI
CAS Number: 109-69-3



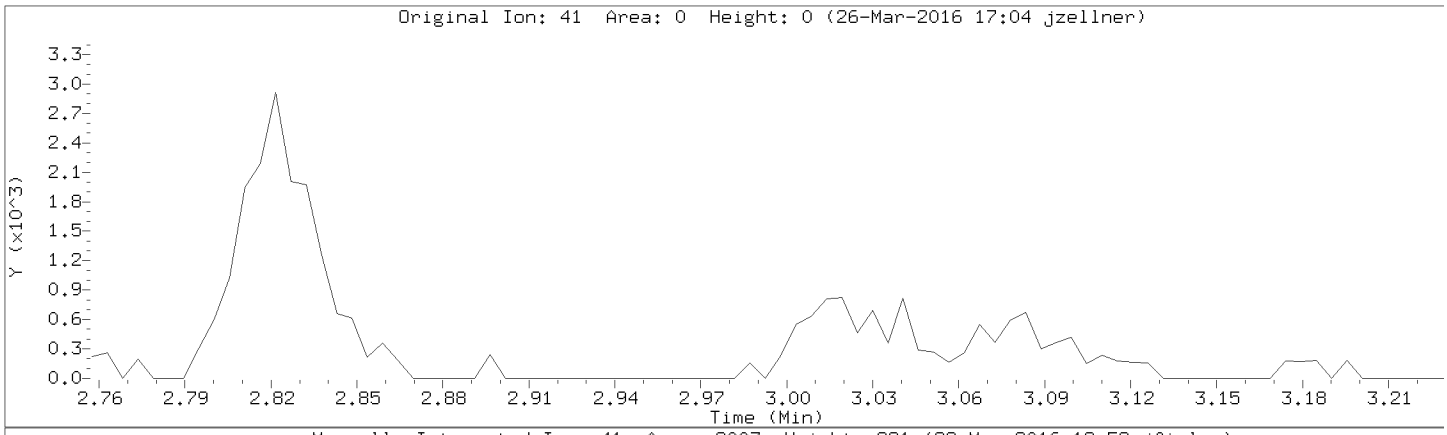


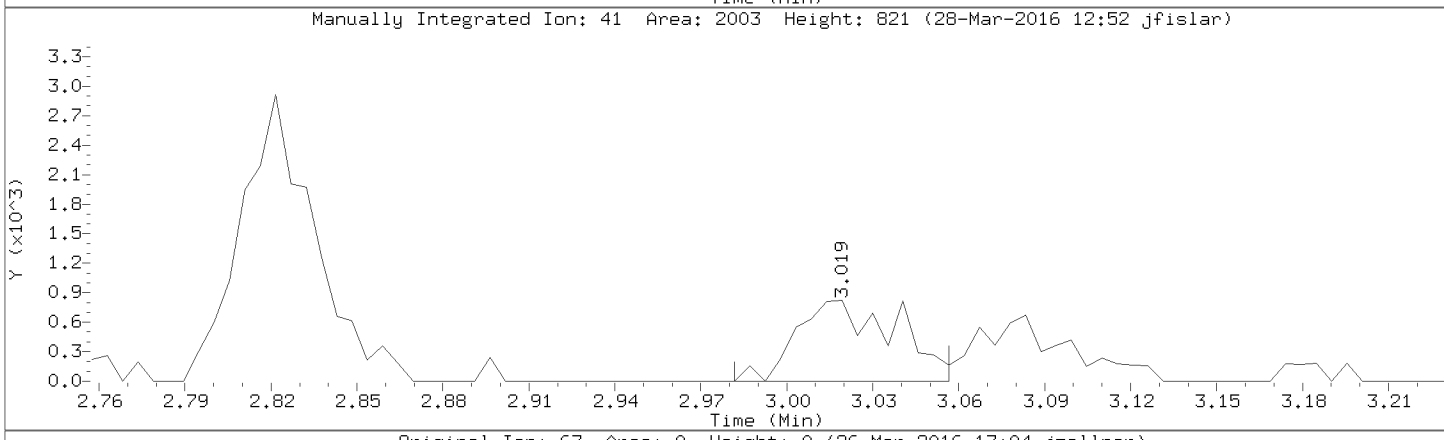


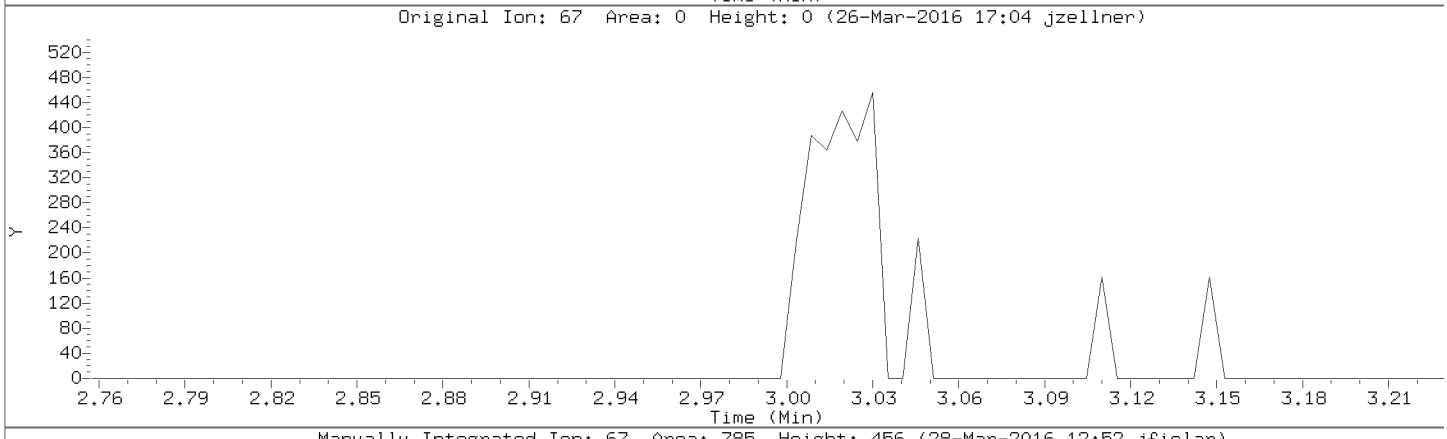


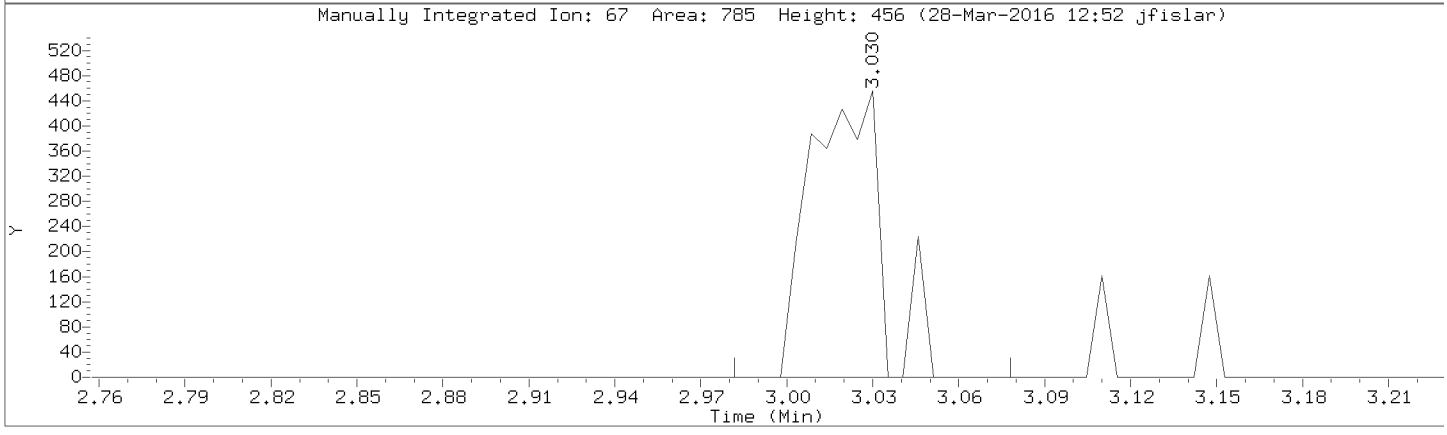
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Methacrylonitrile Review Code: NI
CAS Number: 126-98-7

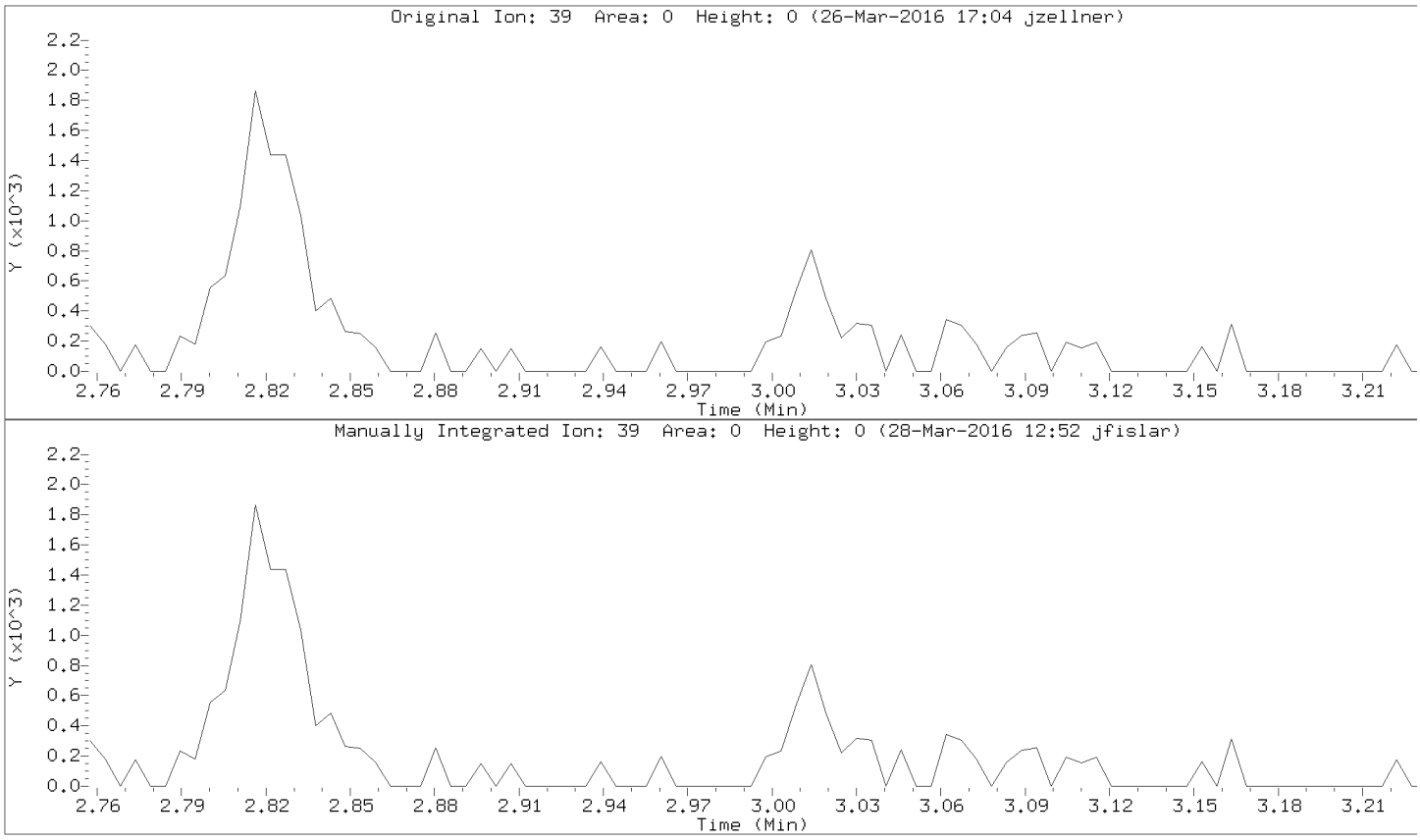








Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a05cal2.d
Injection Date: 25-MAR-2016 16:09
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL2,117887:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a06cal3.d
Lab Smp Id: 8260-CAL3,117888:0
Inj Date : 25-MAR-2016 16:41
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal3,117888:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 16:41   Cal File: a06cal3.d
Als bottle: 13   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.910	0.905	(0.219)	12975	5.00000	4.70(T)	
2	Chloromethane	50	0.996	0.996	(0.239)	20164	5.00000	5.35	
3	Vinyl Chloride	62	1.039	1.039	(0.250)	17734	5.00000	4.77	
4	Bromomethane	94	1.183	1.183	(0.284)	9866	5.00000	5.32	
5	Chloroethane	64	1.226	1.226	(0.294)	11664	5.00000	5.50	
6	Trichlorofluoromethane	101	1.343	1.343	(0.323)	23447	5.00000	5.04	
7	Diethyl ether	74	1.466	1.466	(0.352)	7319	5.00000	4.85	
8	1,2-dichlorotrifluoroethane	67	1.482	1.482	(0.356)	17329	5.00000	4.95	
9	Acrolein	56	1.535	1.536	(0.369)	32165	100.000	98.0	
10	1,1,2trichlorotrifluoroethane	101	1.594	1.589	(0.383)	13854	5.00000	4.51	
11	1,1-Dichloroethene	96	1.594	1.594	(0.383)	12769	5.00000	4.86	
12	Acetone	43	1.605	1.605	(0.386)	13753	25.0000	24.8	
13	Iodomethane	142	1.685	1.680	(0.405)	25045	10.0000	8.98	
14	Carbon Disulfide	76	1.733	1.728	(0.416)	42661	5.00000	4.90	
15	Methyl Acetate	43	1.776	1.776	(0.427)	8515	5.00000	5.75	
16	allyl chloride	41	1.792	1.787	(0.430)	50257	10.0000	9.77	
17	Acetonitrile	39	1.792	1.787	(0.430)	36347	5.00000	5.11	
18	Methylene Chloride	84	1.866	1.867	(0.448)	11398	5.00000	5.09	
19	Acrylonitrile	53	2.000	2.000	(0.480)	10255	20.0000	19.4	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	24381	5.00000	4.74	
21	tert-Butyl Alcohol	59	1.904	1.910	(0.457)	1080	10.0000	9.15(Q)	
22	1,2-Dichloroethene (trans)	96	2.037	2.038	(0.489)	11214	5.00000	4.64	
23	n-Hexane	57	2.219	2.219	(0.533)	25066	5.00000	4.86	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.331	2.331	(0.560)	60390	20.0000	15.7	
	25 1,1-Dichloroethane	63	2.342	2.342	(0.563)	20319	5.00000	4.70	
	26 Chloroprene	53	2.395	2.396	(0.575)	18727	5.00000	4.71	
	27 2-Butanone	43	2.801	2.796	(0.673)	16909	25.0000	20.5	
	28 1,2-Dichloroethene (cis)	96	2.817	2.818	(0.677)	11059	5.00000	4.61	
	29 2,2-Dichloropropane	77	2.822	2.823	(0.678)	10622	5.00000	3.99	
	30 Propionitrile	54	2.865	2.866	(0.688)	799	5.00000	4.34(QM)	NI
	31 Methacrylonitrile	41	3.009	3.004	(0.723)	4231	5.00000	3.73	
	32 Bromochloromethane	49	3.052	3.053	(0.733)	8450	5.00000	4.92	
	33 Tetrahydrofuran	42	3.079	3.069	(0.740)	3077	5.00000	5.99(M)	NI
	34 Chloroform	83	3.159	3.159	(0.759)	18728	5.00000	4.91	
$	35 Dibromofluoromethane (S)	113	3.335	3.336	(0.801)	97438	50.0000	49.4	
	36 1,1,1-Trichloroethane	97	3.330	3.330	(0.800)	15583	5.00000	4.73	
	37 Cyclohexane	56	3.421	3.421	(0.822)	21540	5.00000	4.77	
	38 n-Butyl chloride	56	3.485	3.485	(0.837)	23669	5.00000	4.64	
	39 Carbon Tetrachloride	117	3.511	3.517	(0.843)	12670	5.00000	4.57	
	40 1,1-Dichloropropene	75	3.522	3.523	(0.846)	15900	5.00000	4.93	
	41 Benzene	78	3.763	3.768	(0.904)	42685	5.00000	4.70	
	42 1,2-Dichloroethane	62	3.853	3.854	(0.926)	11914	5.00000	4.80(M)	NI
	43 2,2,4-Trimethylpentane	57	3.949	3.944	(0.949)	45998	5.00000	4.57	
	44 Isobutyl alcohol	43	3.944	3.950	(0.947)	9750	5.00000	4.64(M)	NI
*	45 Fluorobenzene (IS)	96	4.163	4.169	(1.000)	437568	50.0000		
	46 Trichloroethene	95	4.622	4.617	(1.110)	11124	5.00000	5.02	
	47 Methylcyclohexane	55	4.884	4.885	(1.173)	14514	5.00000	4.46	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	9763	5.00000	4.71	
	49 Dibromomethane	93	5.023	5.018	(1.207)	4354	5.00000	4.62	
	50 1,4-Dioxane	88	5.044	5.029	(1.212)	1094	100.000	84.8(M)	NI
	51 Methyl methacrylate	69	5.050	5.039	(1.213)	3315	5.00000	3.58(M)	NI
	52 Bromodichloromethane	83	5.247	5.248	(1.260)	11758	5.00000	4.86(M)	NI
	53 2-Chloroethyl vinyl ether	63	5.600	5.600	(0.762)	6028	10.0000	8.40	
	54 cis-1,3-Dichloropropene	75	5.744	5.744	(0.782)	10784	5.00000	4.18	
	55 4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	31038	25.0000	22.9	
$	56 Toluene-d8 (S)	98	6.016	6.017	(0.819)	365407	50.0000	50.7	
	57 Toluene	91	6.091	6.092	(0.829)	44922	5.00000	4.86	
	58 trans-1,3-Dichloropropene	75	6.380	6.380	(0.868)	7082	5.00000	3.88	
	59 Ethyl Methacrylate	69	6.465	6.465	(0.880)	5882	5.00000	3.71(M)	NI
	60 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	5565	5.00000	5.09	
	61 Tetrachloroethene	166	6.615	6.615	(0.900)	8556	5.00000	4.66	
	62 1,3-Dichloropropane	76	6.705	6.706	(0.913)	10653	5.00000	4.64	
	63 2-Hexanone	43	6.775	6.775	(0.922)	17717	25.0000	21.5	
	64 Dibromochloromethane	129	6.892	6.887	(0.938)	5968	5.00000	4.80	
	65 1,2-Dibromoethane	107	6.972	6.973	(0.949)	4683	5.00000	4.37	
*	66 Chlorobenzene-D5 (IS)	117	7.346	7.341	(1.000)	209920	50.0000		
	67 Chlorobenzene	112	7.368	7.368	(1.003)	20090	5.00000	4.70	
	68 1,1,1,2-Tetrachloroethane	131	7.448	7.443	(1.014)	5362	5.00000	4.11	
	69 Ethylbenzene	106	7.448	7.448	(1.014)	11137	5.00000	4.60	
	70 m&p-Xylene	106	7.544	7.544	(1.027)	26800	10.0000	9.08	
	71 o-Xylene	106	7.811	7.806	(1.063)	11737	5.00000	4.49	
	72 Styrene	104	7.827	7.827	(1.065)	18706	5.00000	4.38	
	73 Bromoform	173	7.939	7.940	(0.898)	2293	5.00000	4.46(M)	NI
	74 Isopropylbenzene	105	8.051	8.052	(1.096)	30663	5.00000	4.52	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.111)	85509	50.0000	49.3	
	76 Bromobenzene	77	8.244	8.244	(1.122)	11788	5.00000	4.74	
	77 1,1,2,2-Tetrachloroethane	83	8.254	8.255	(0.934)	6140	5.00000	5.14	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78 trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.126)	1353	5.00000	4.30(M)	WP
79 1,2,3-Trichloropropane	110	8.281	8.287	(0.937)	1660	5.00000	5.04(Q)	
80 n-Propylbenzene	91	8.313	8.308	(0.940)	37721	5.00000	4.68	
81 2-Chlorotoluene	91	8.361	8.362	(0.946)	21371	5.00000	4.85	
82 1,3,5-Trimethylbenzene	105	8.420	8.420	(0.952)	22534	5.00000	4.54	
83 4-Chlorotoluene	126	8.436	8.436	(0.954)	6970	5.00000	4.87	
84 tert-Butylbenzene	119	8.602	8.602	(0.973)	24057	5.00000	4.43	
85 1,2,4-Trimethylbenzene	105	8.639	8.634	(0.977)	22965	5.00000	4.71	
86 sec-Butylbenzene	105	8.730	8.725	(0.987)	30991	5.00000	4.76	
87 1,3-Dichlorobenzene	146	8.794	8.794	(0.995)	12340	5.00000	5.05	
88 p-Isopropyltoluene	119	8.815	8.816	(0.997)	23317	5.00000	4.41	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	74846	50.0000		
90 1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	12524	5.00000	4.97	
91 n-Butylbenzene	91	9.034	9.029	(1.022)	23655	5.00000	4.58	
92 1,2-Dichlorobenzene	146	9.045	9.045	(1.023)	10560	5.00000	4.82	
93 1,2,4-Trichlorobenzene	180	9.862	9.862	(1.115)	6555	5.00000	4.88	
94 1,2-Dibromo-3-chloropropane	155	9.456	9.456	(1.069)	375	5.00000	3.82(QM)	NI
95 Hexachlorobutadiene	225	9.926	9.926	(1.123)	3716	5.00000	4.79	
96 Naphthalene	128	10.001	10.001	(1.131)	12939	5.00000	4.48	
97 1,2,3-Trichlorobenzene	180	10.113	10.113	(1.144)	5816	5.00000	4.63	
98 2,methyl-naphthalene	142	10.636	10.632	(1.203)	7632	5.00000	4.08	
99 1-Methylnaphthalene	142	10.749	10.749	(1.216)	6952	5.00000	4.24	

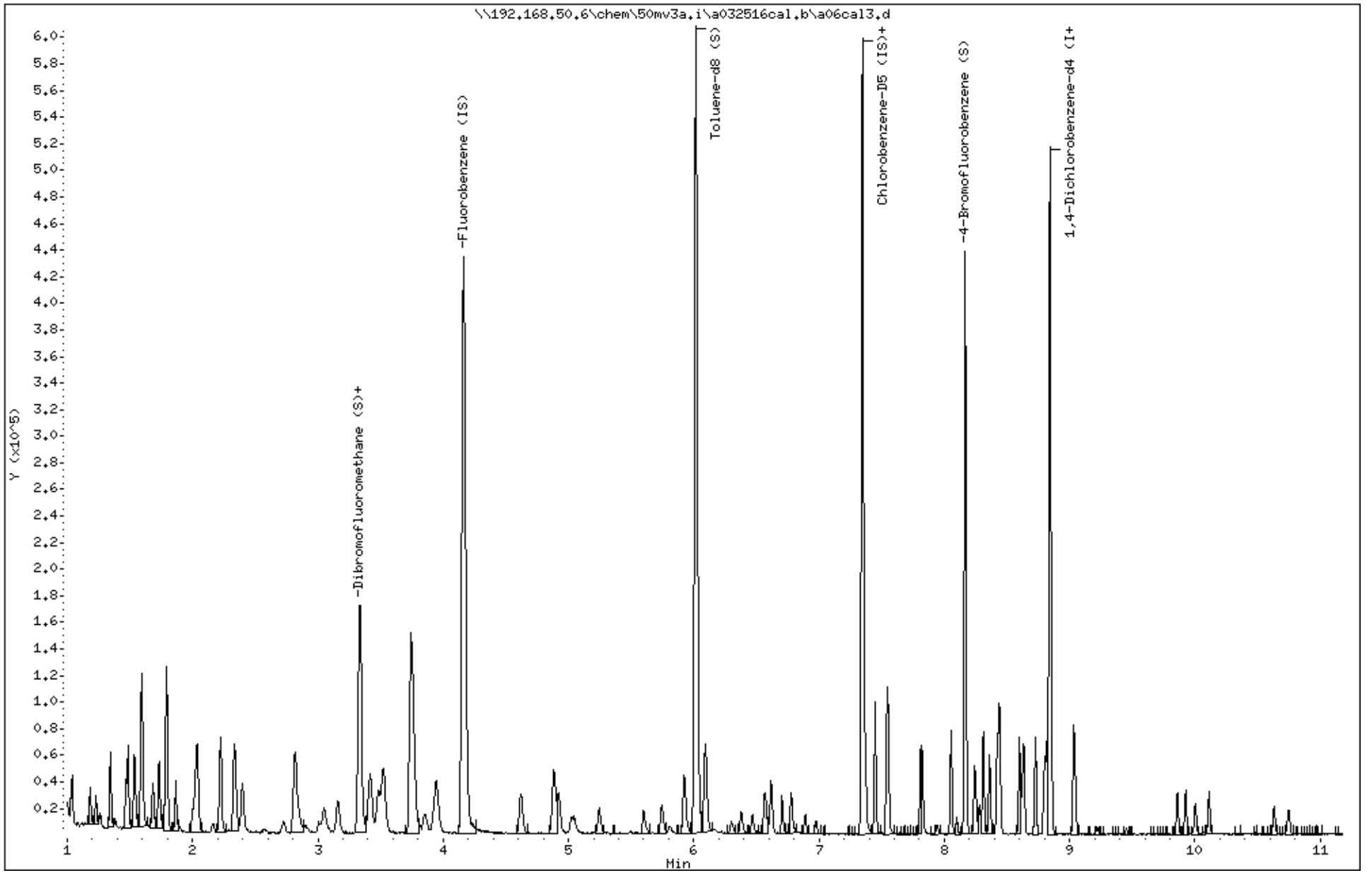
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

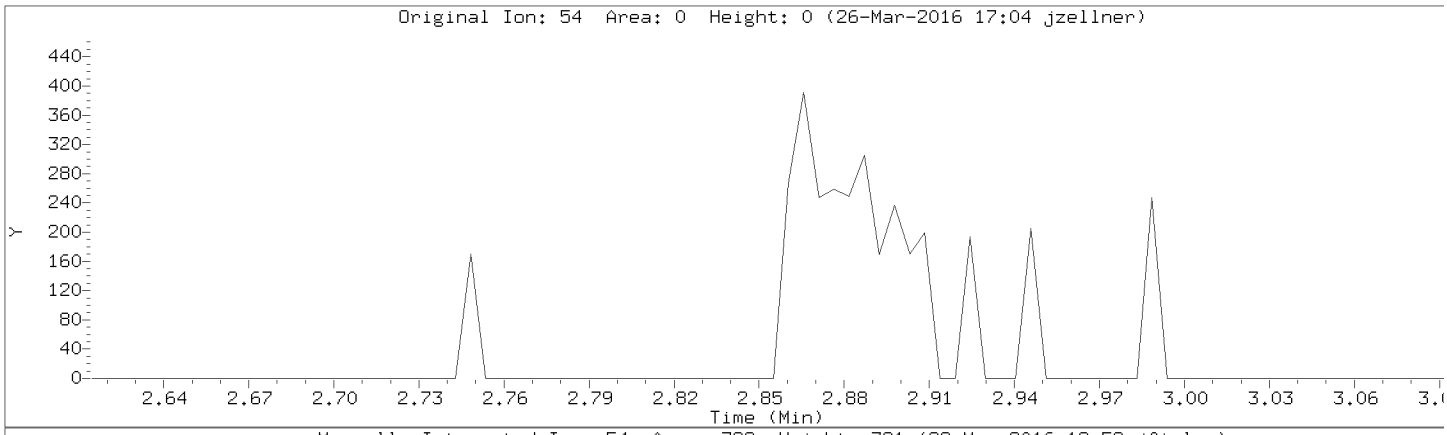
:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

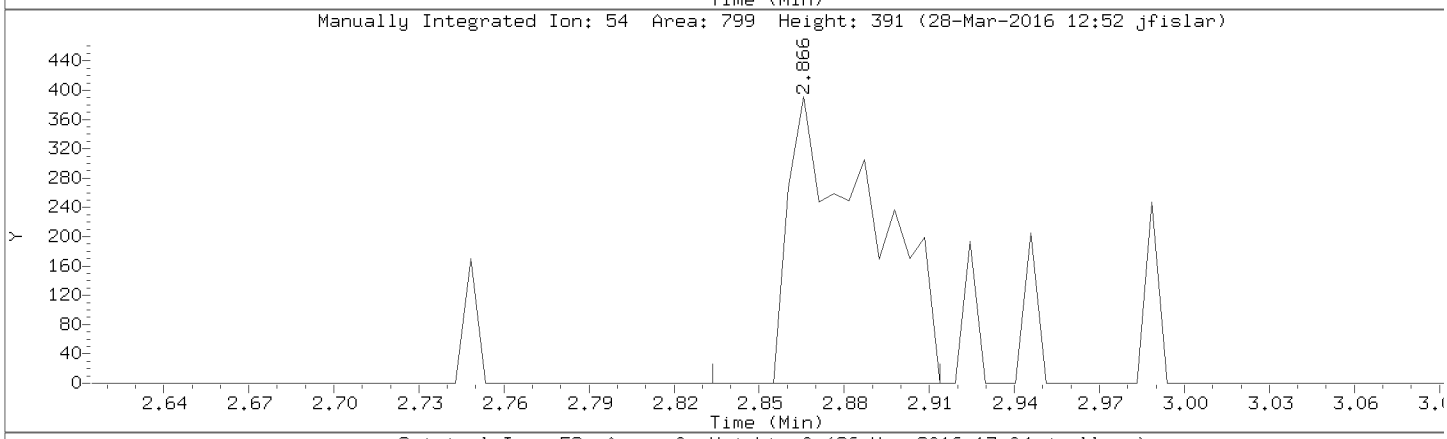
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a06cal3.d
Date : 25-MAR-2016 16:41
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL3,117888:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

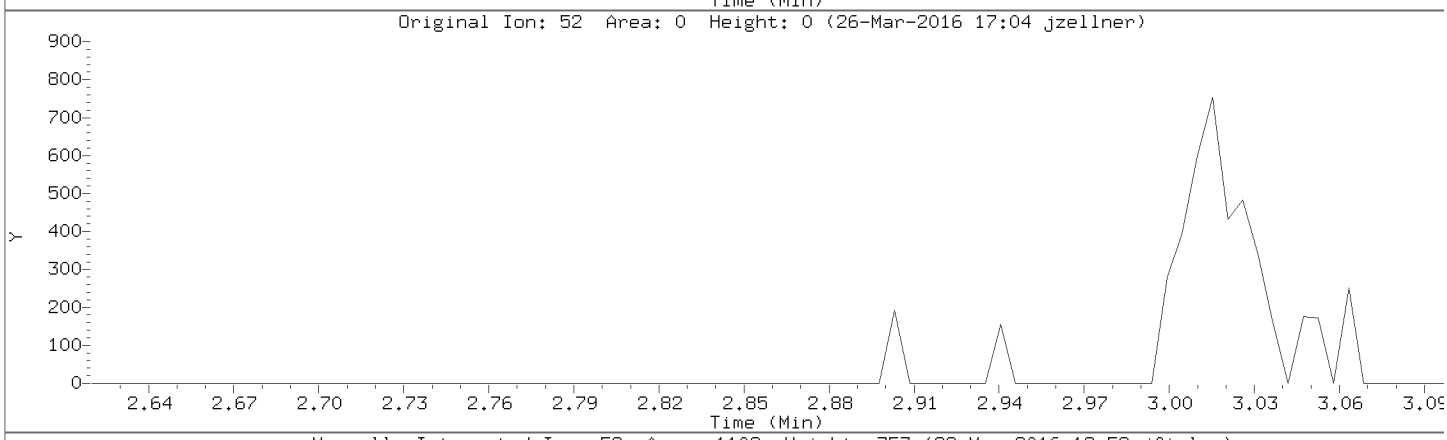


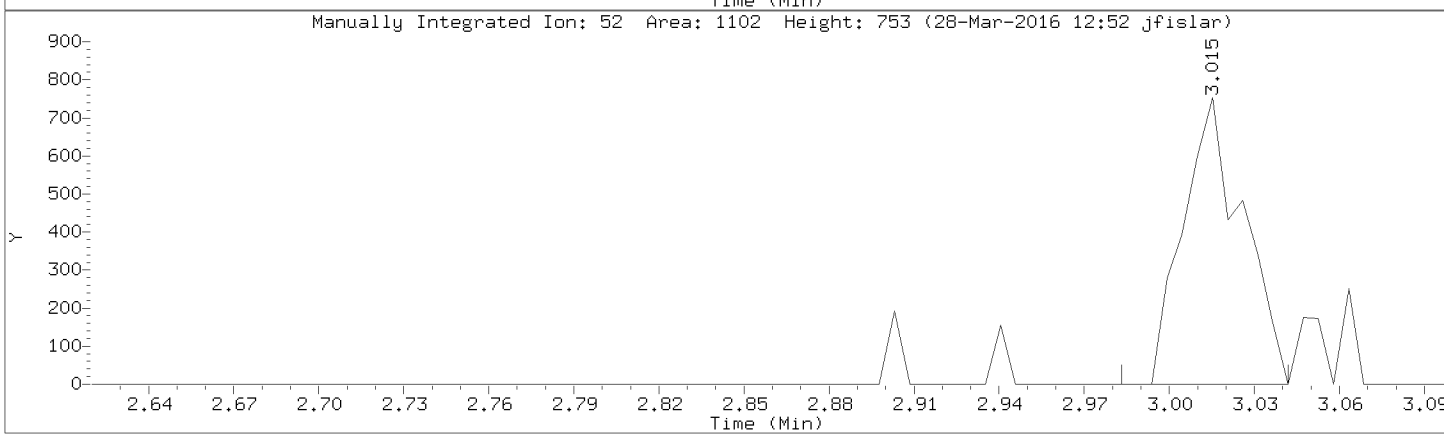
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0

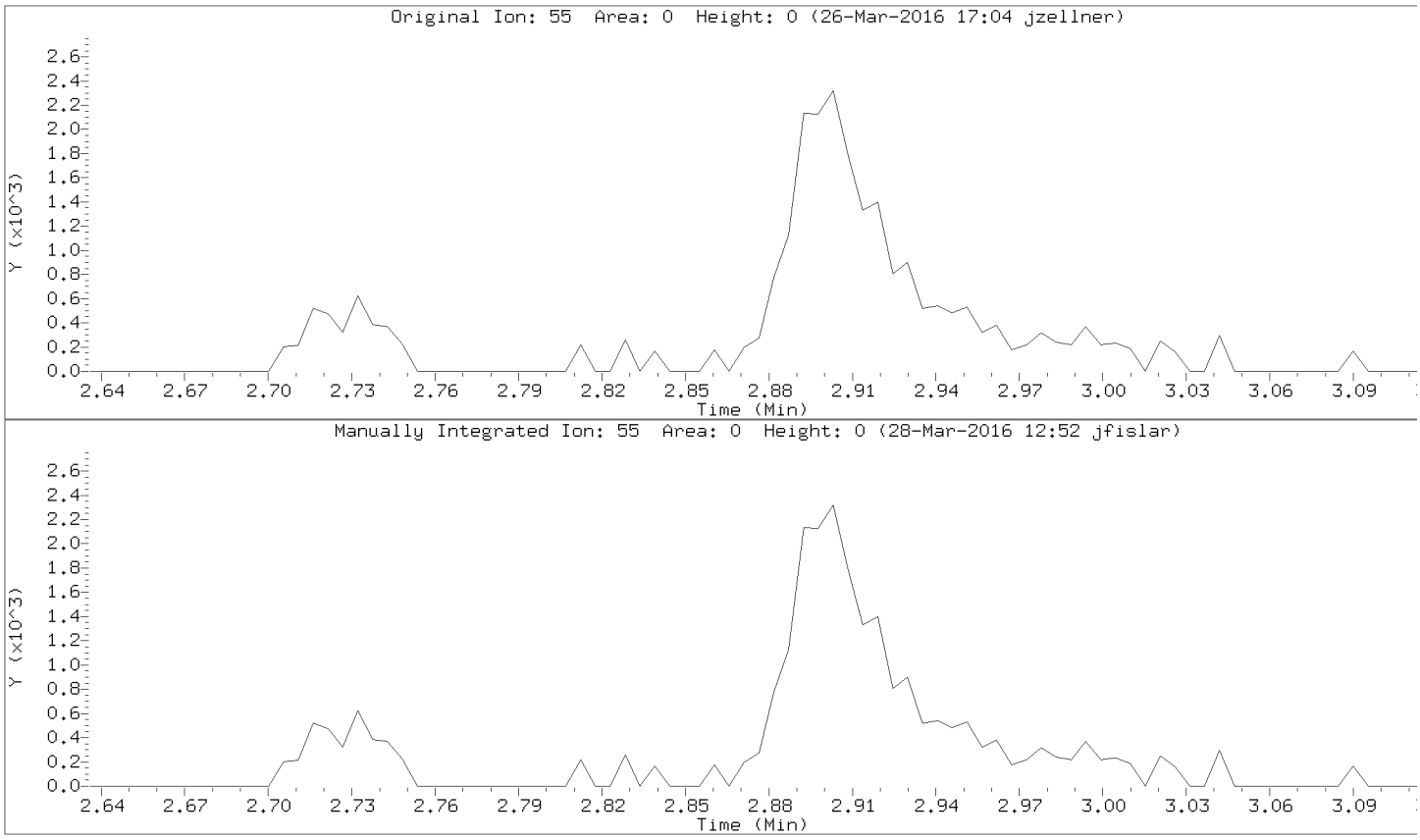






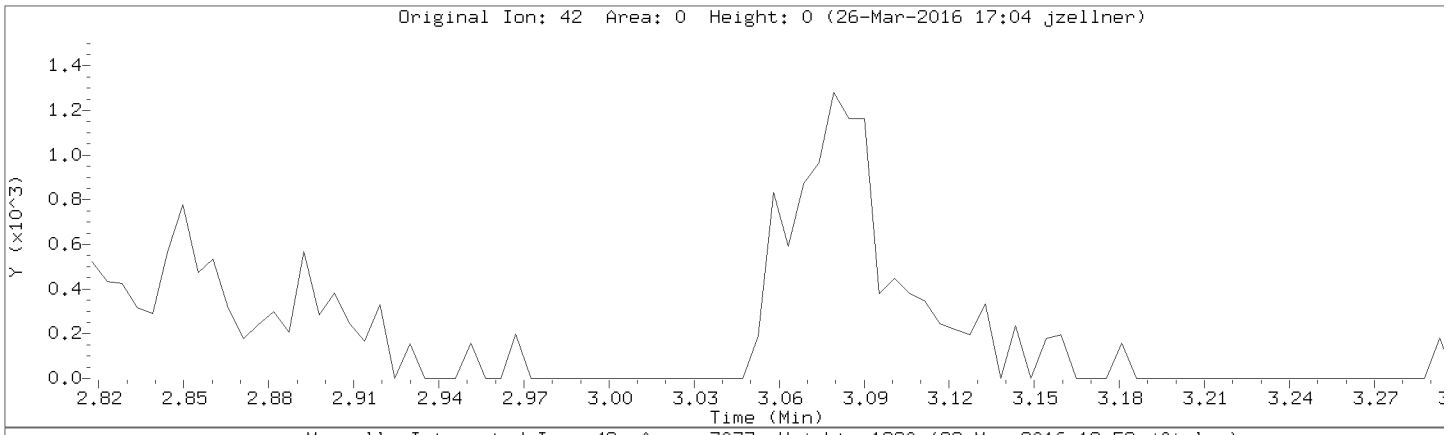


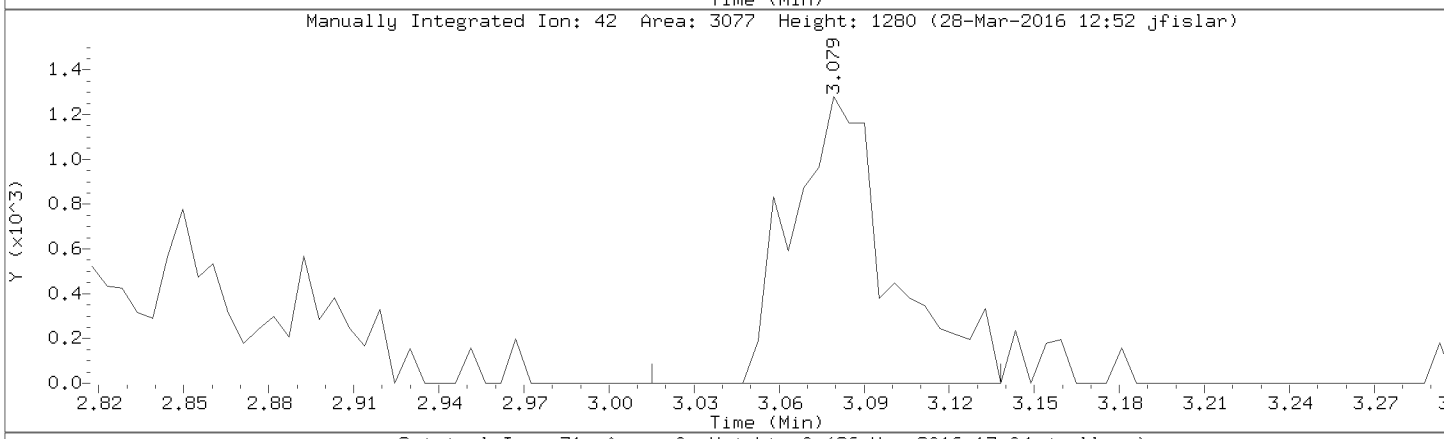
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

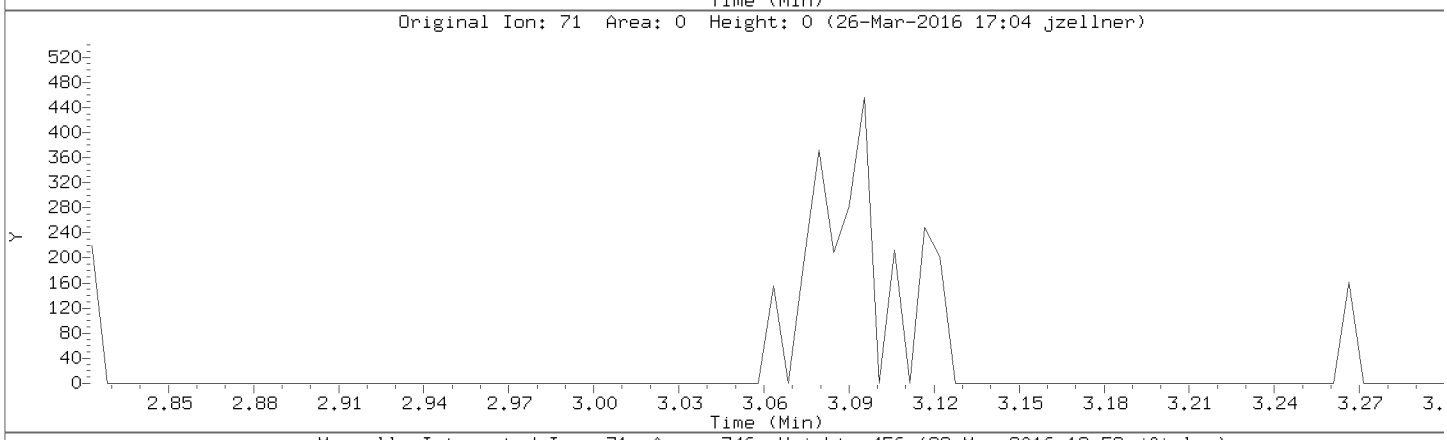


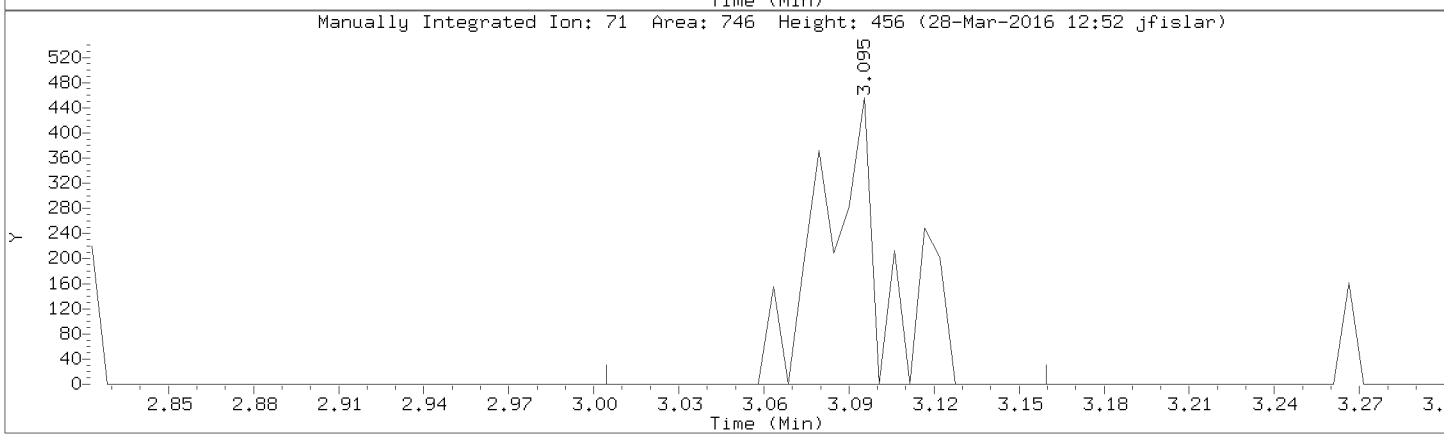
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:

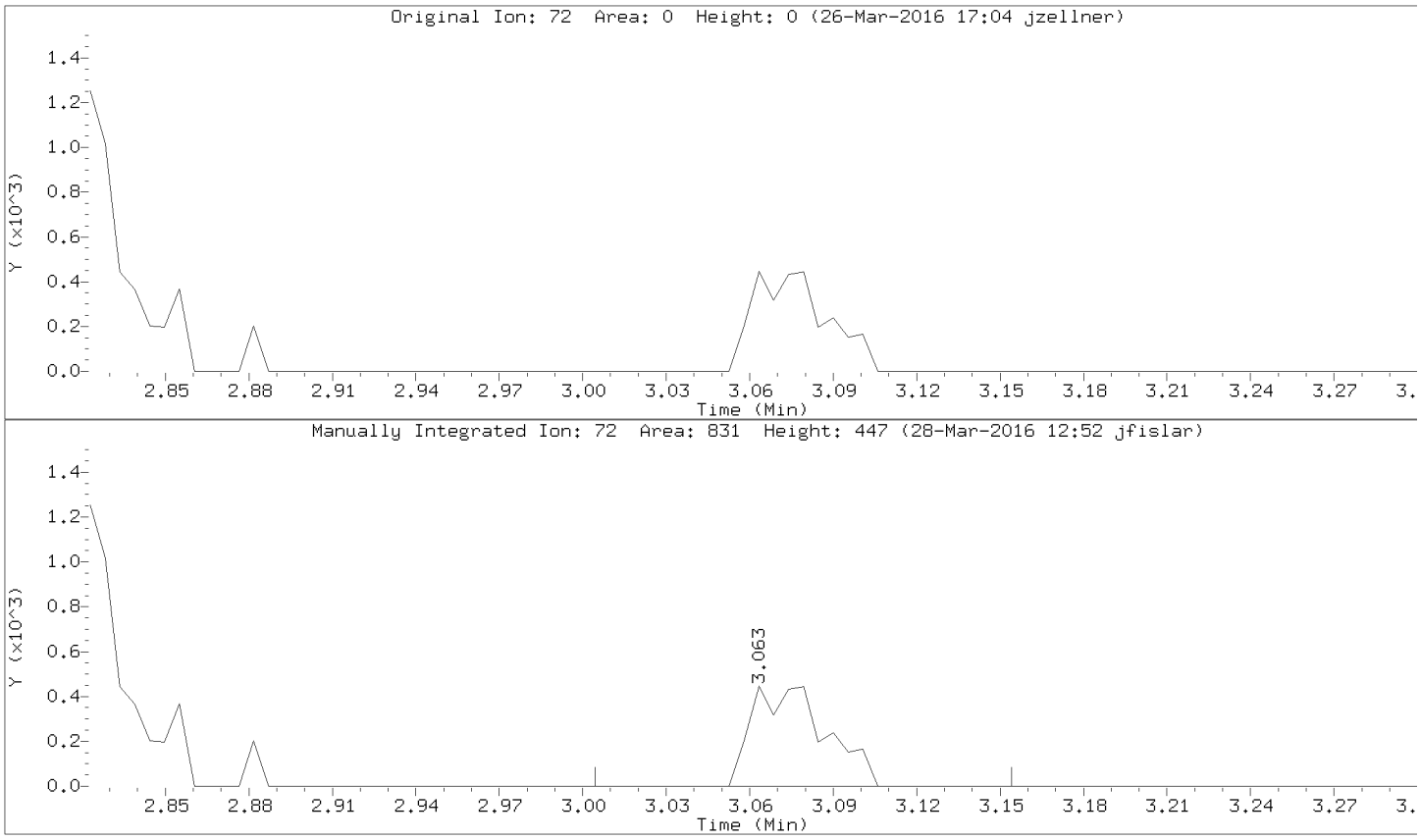






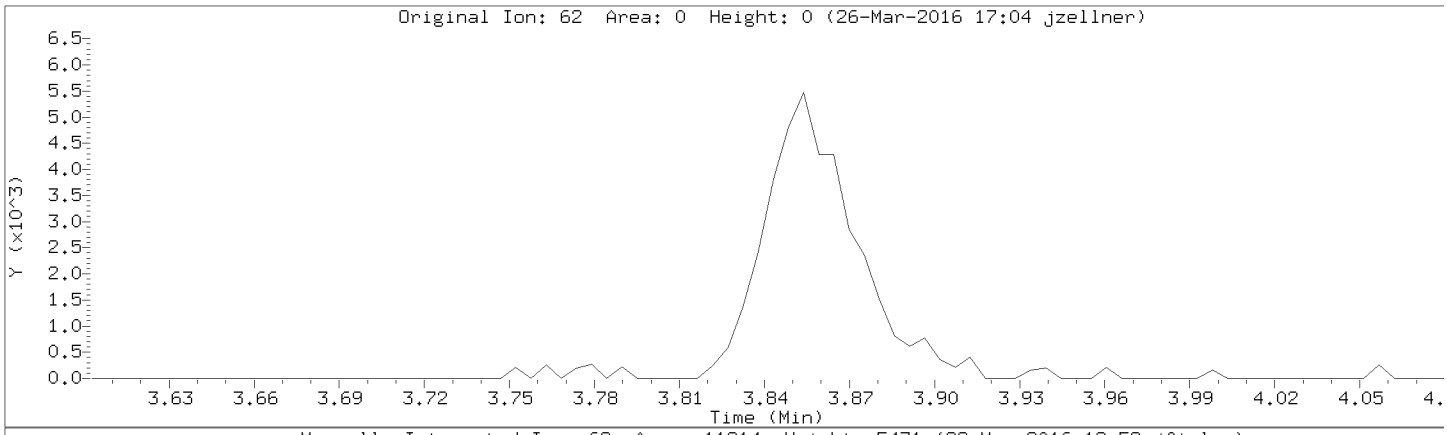


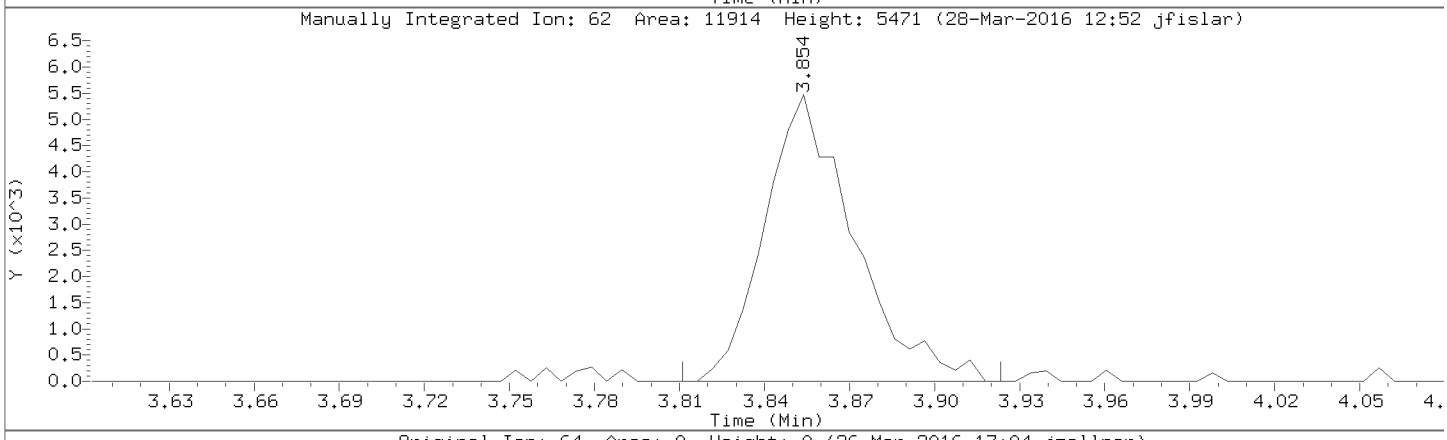
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

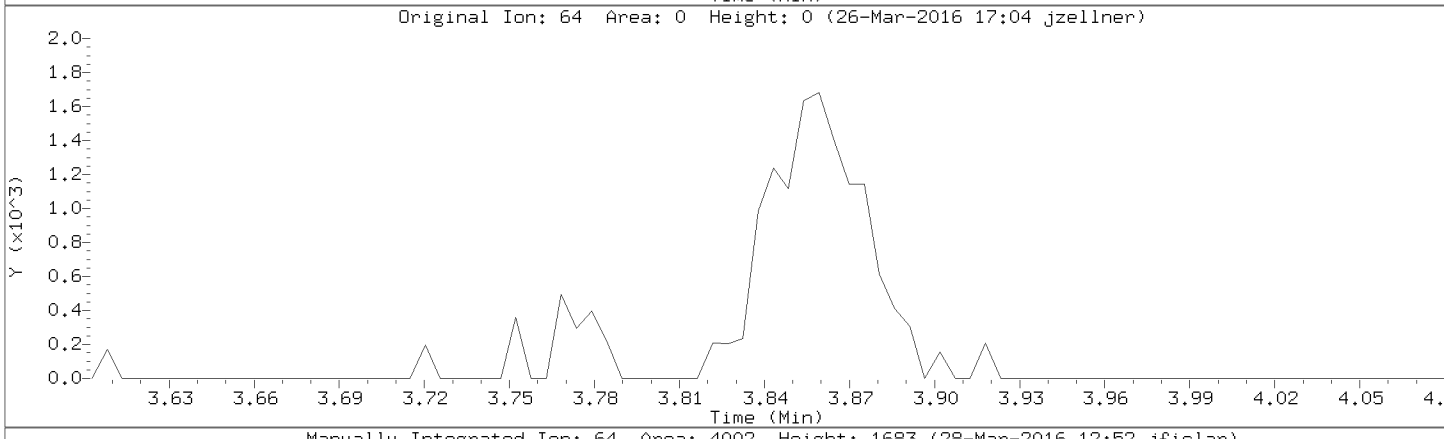


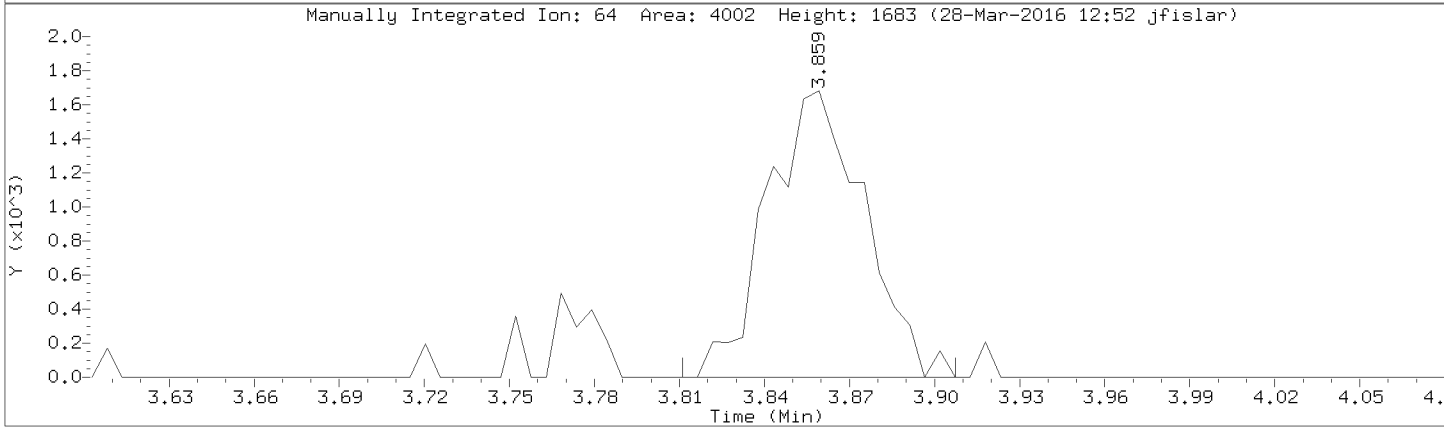
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

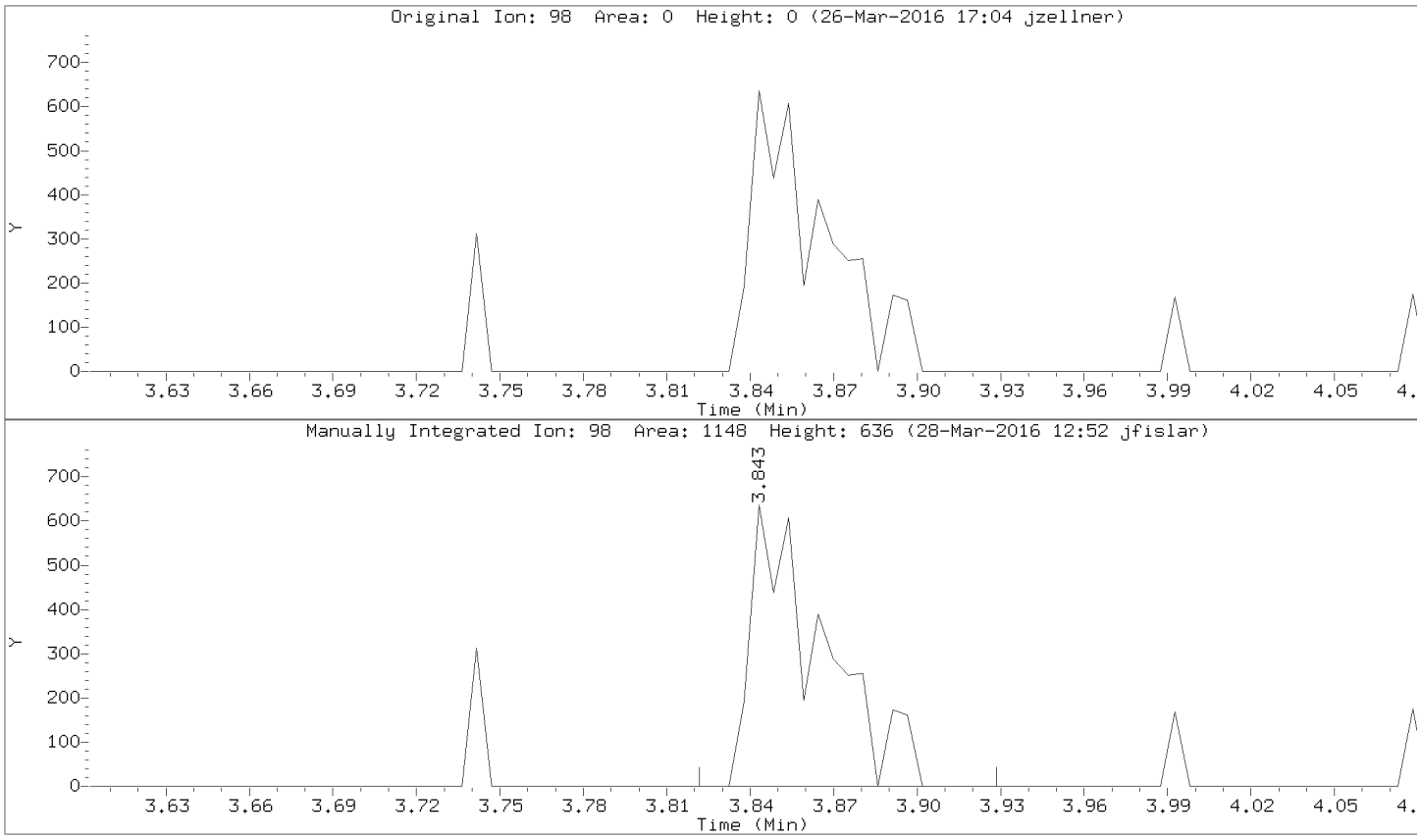






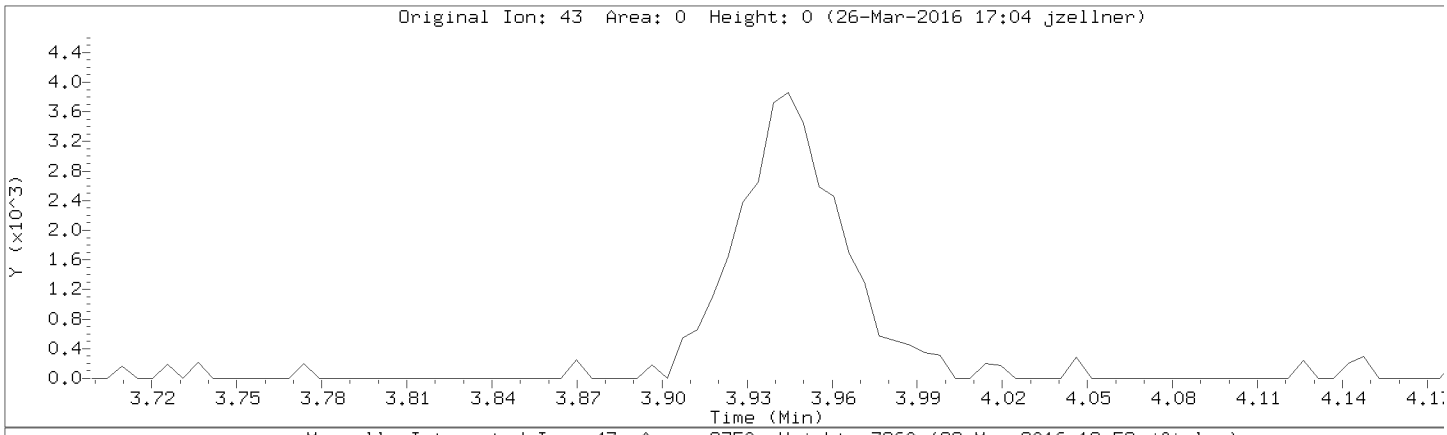


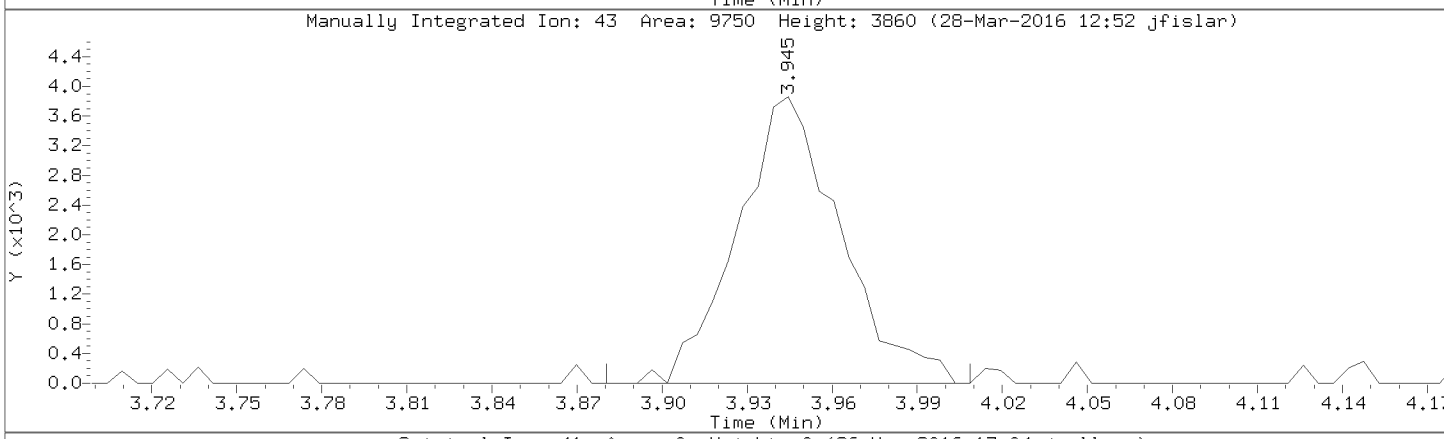
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

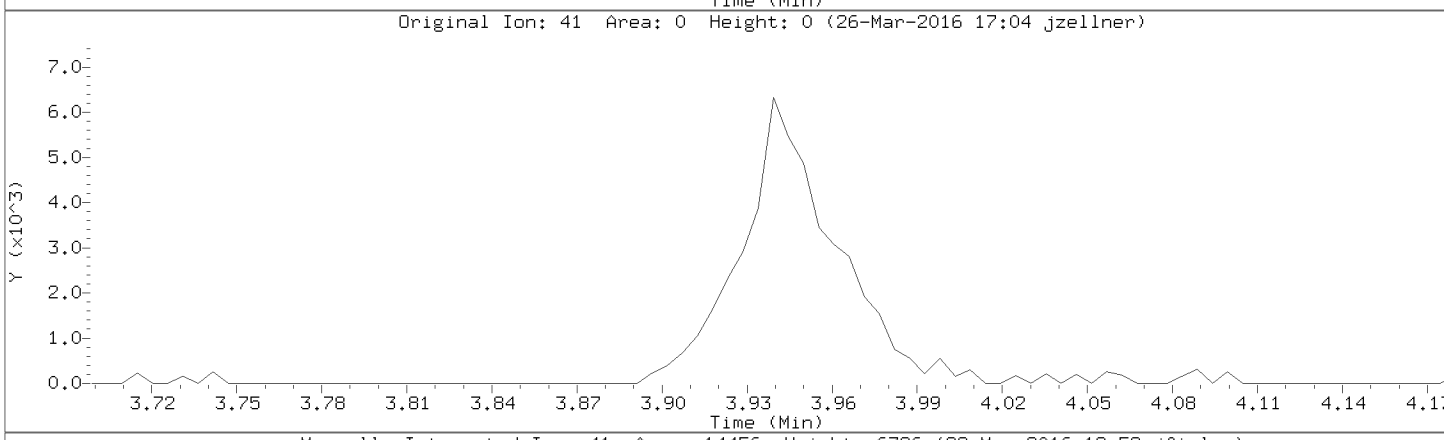


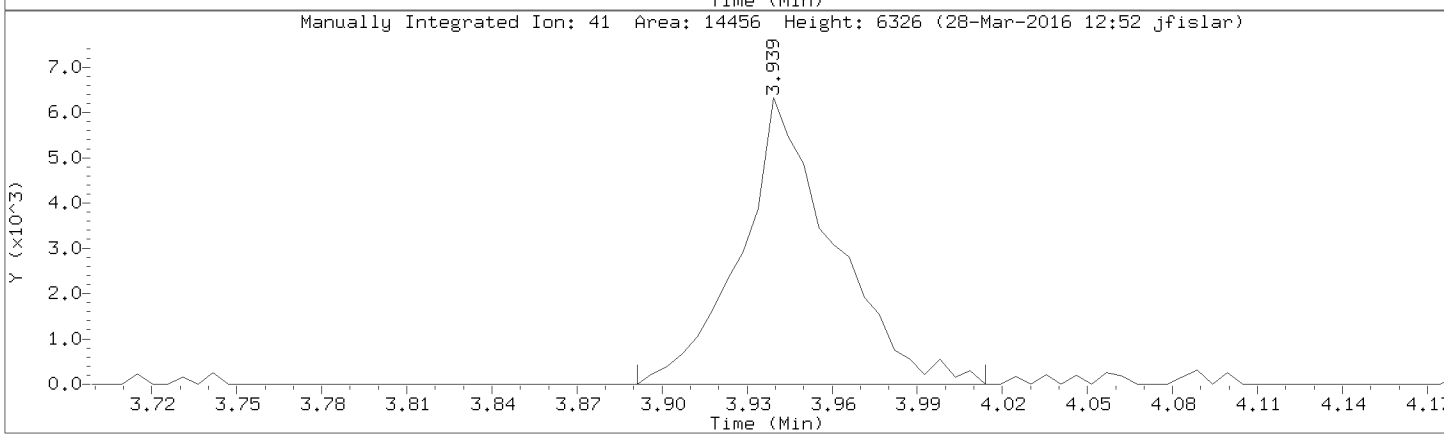
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

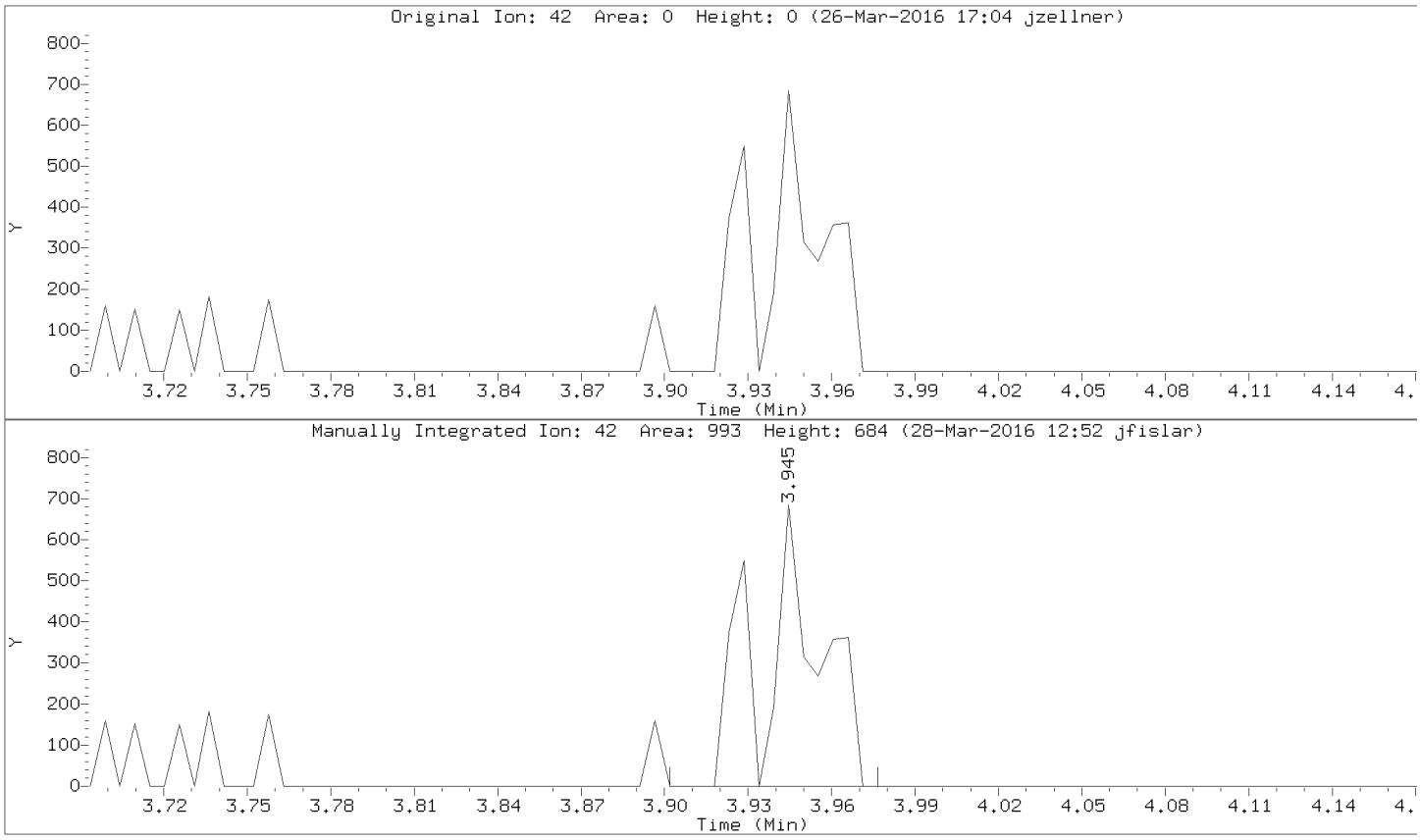






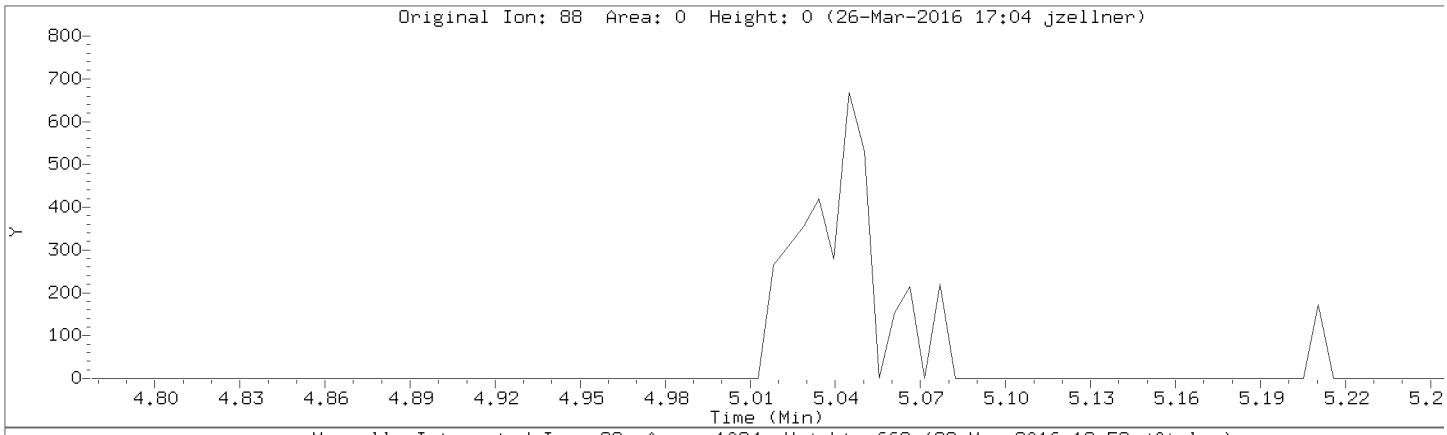


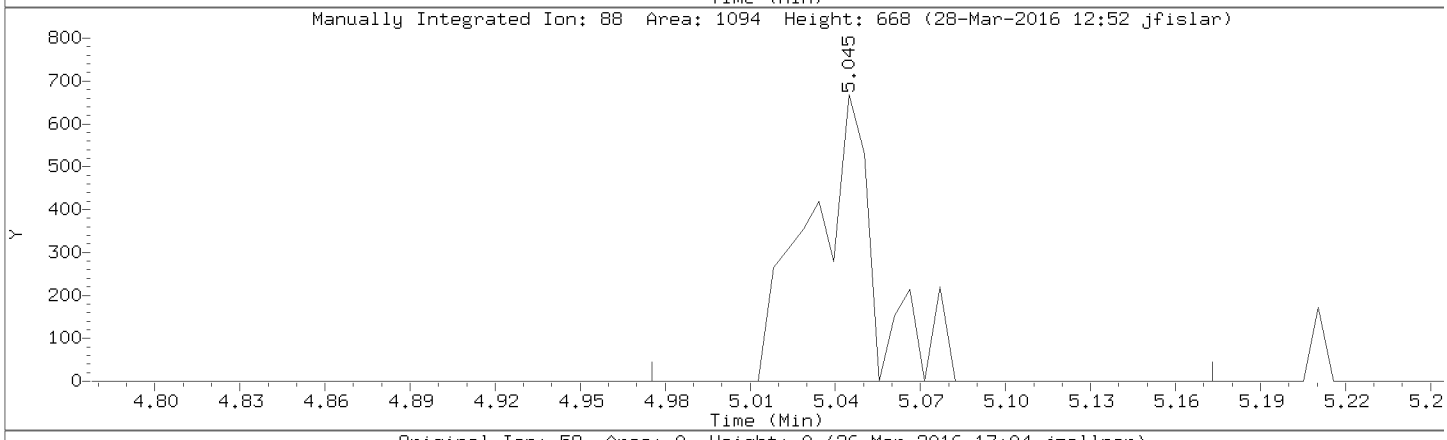
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

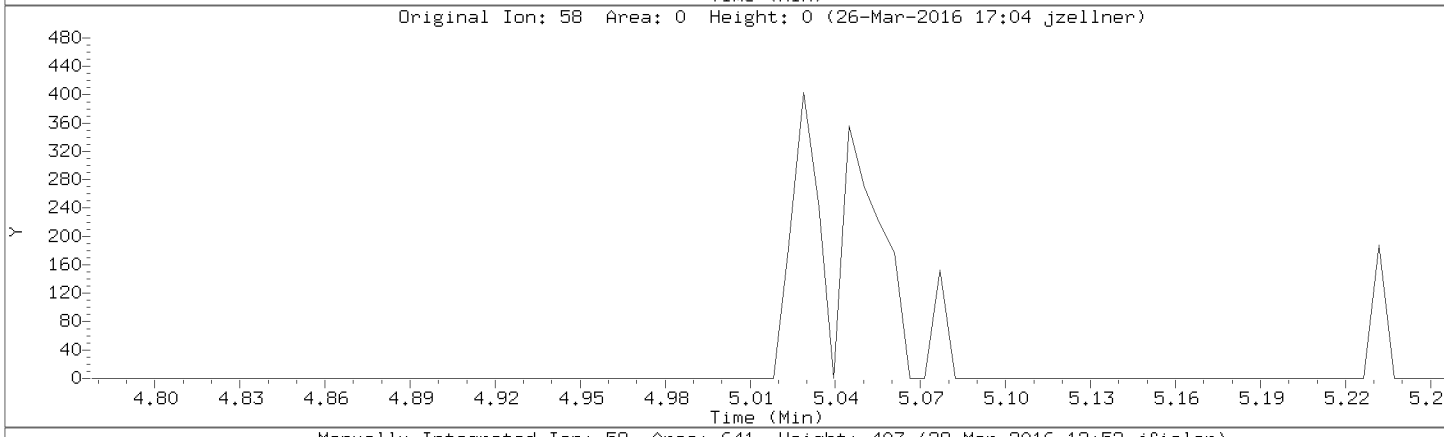


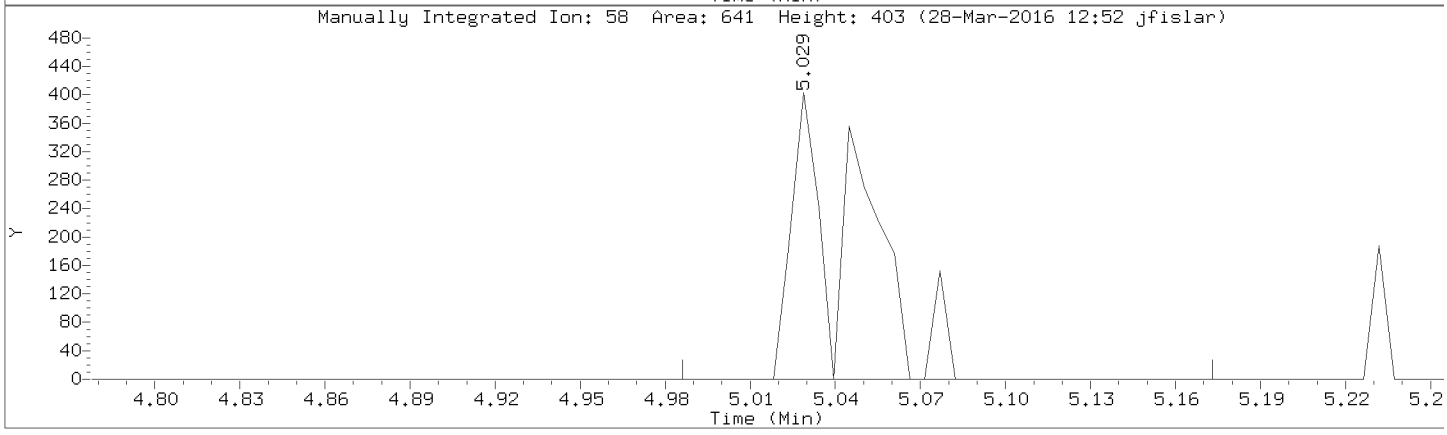
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



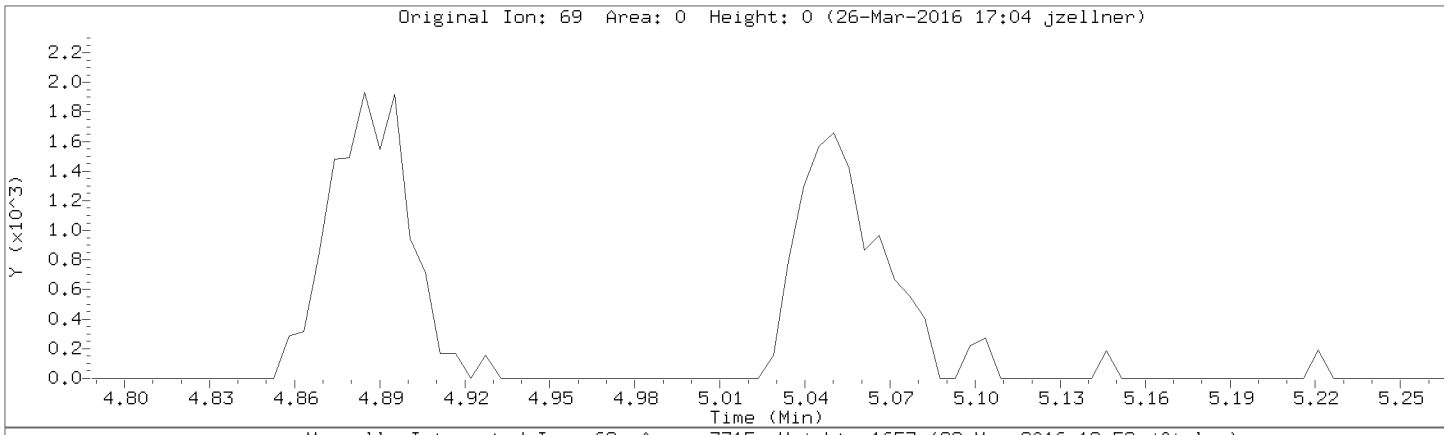


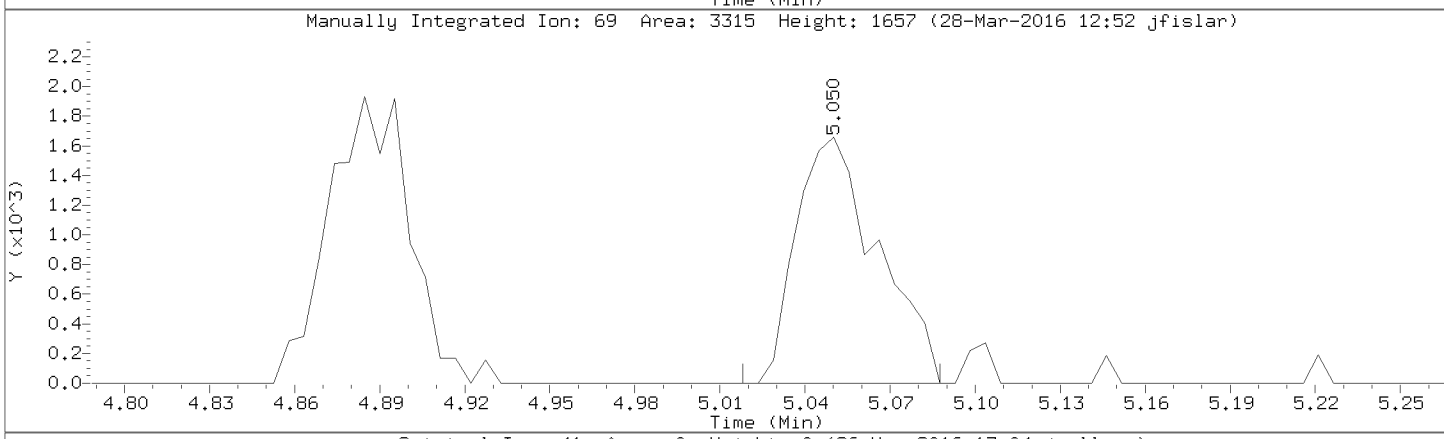


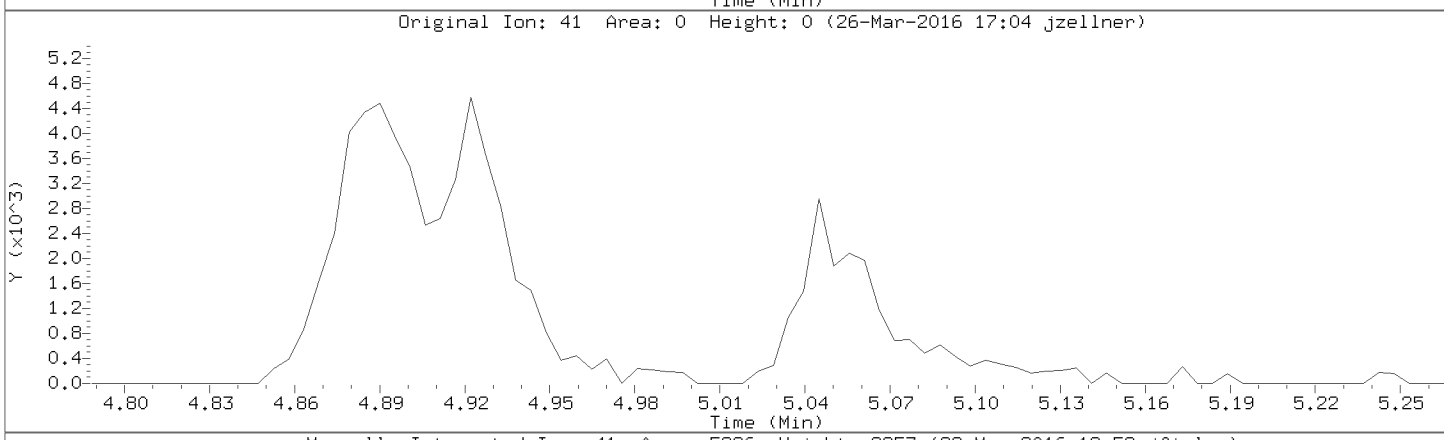


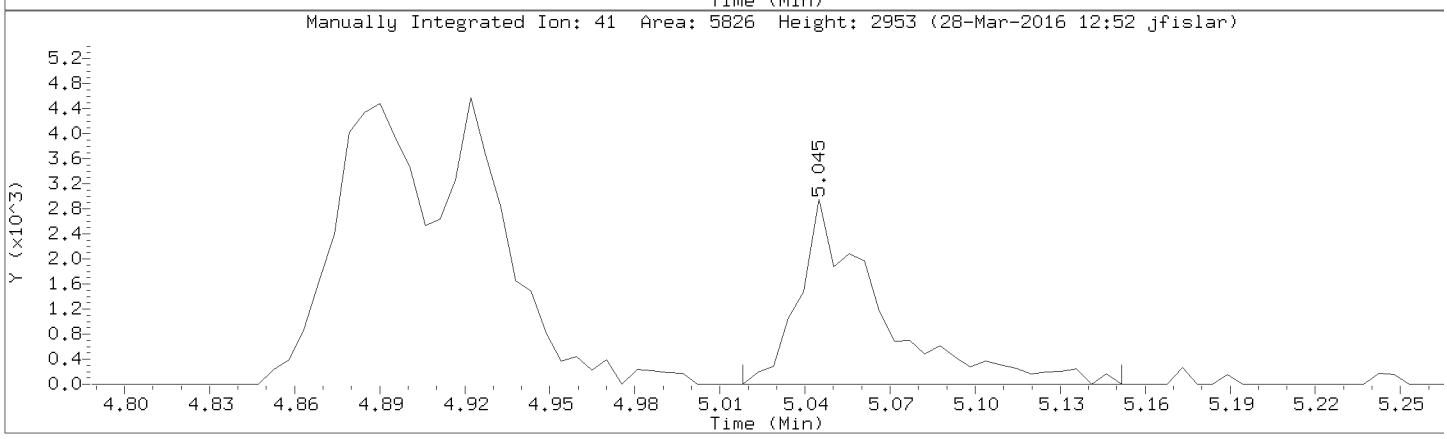
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

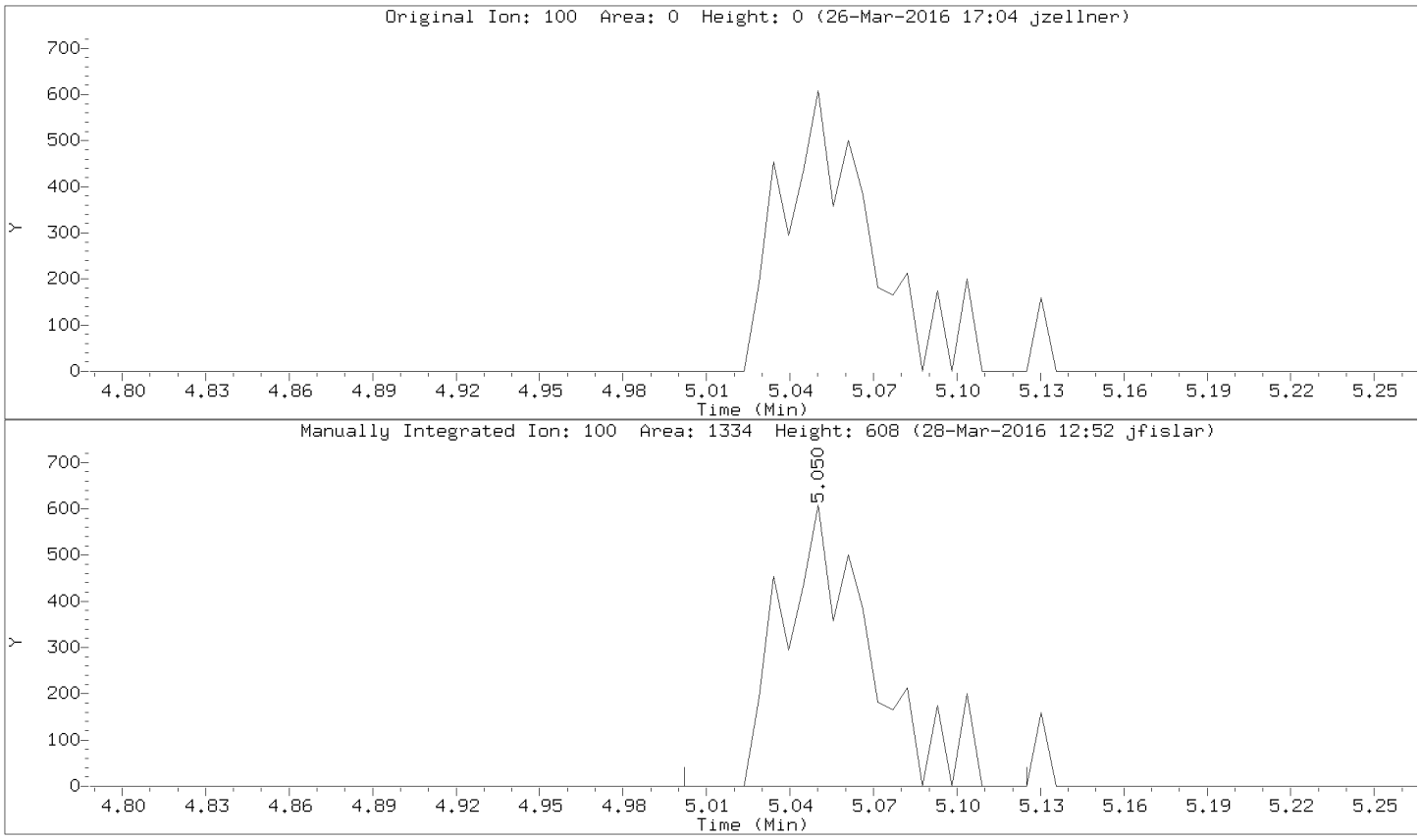






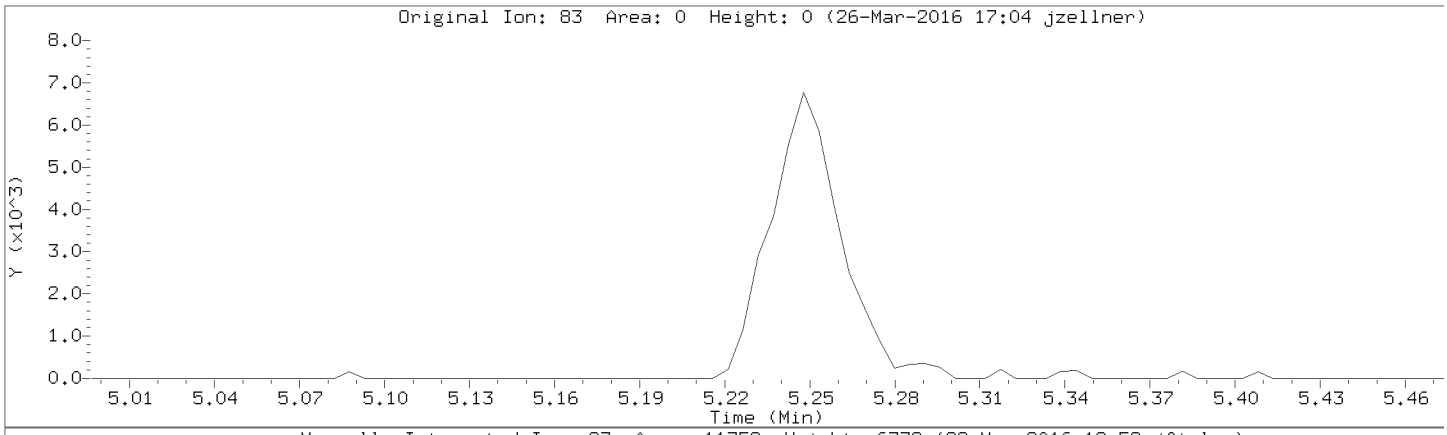


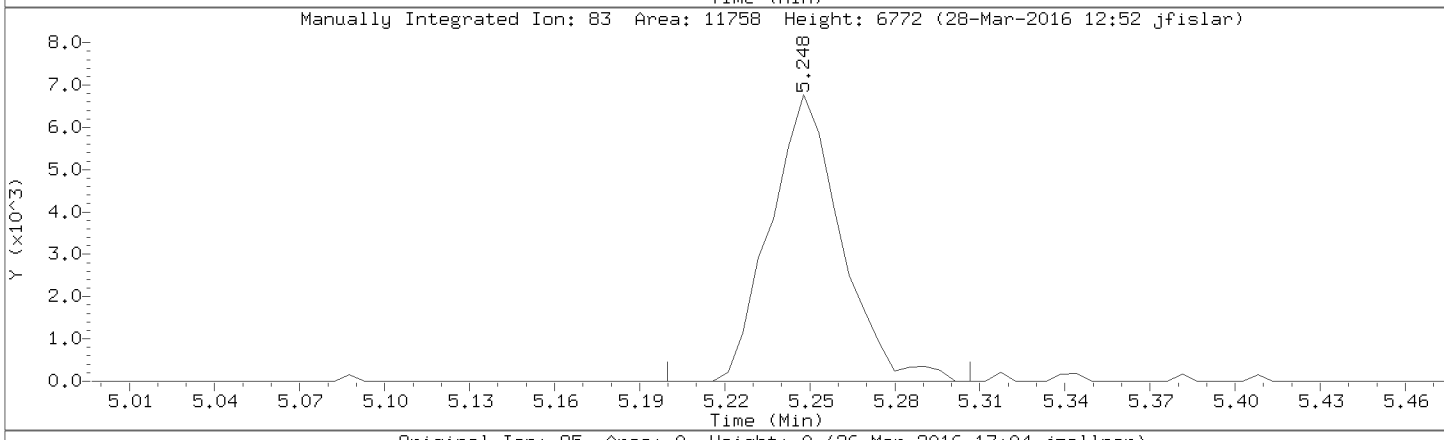
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

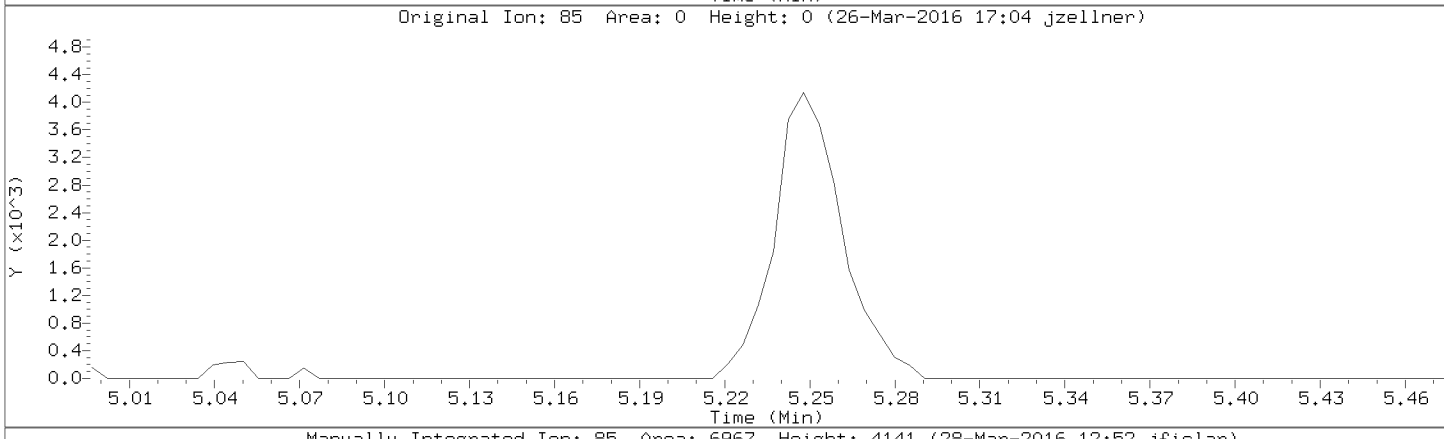


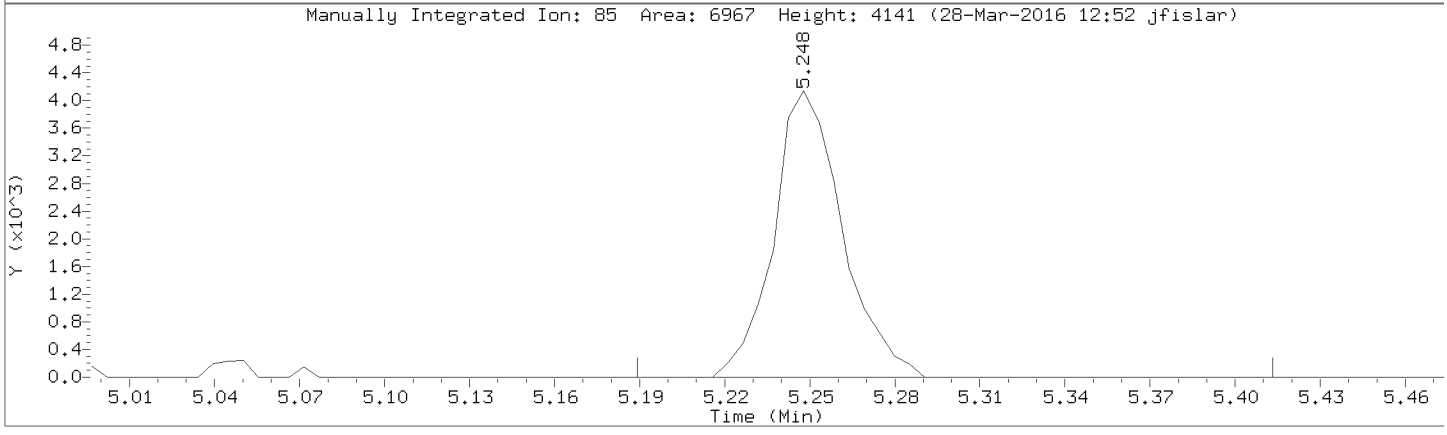
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

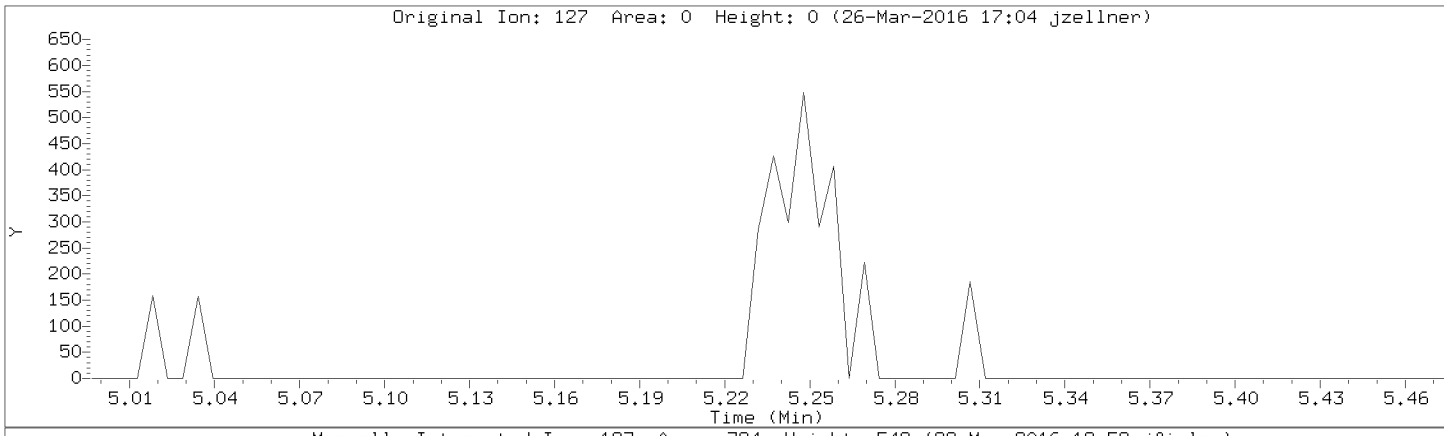


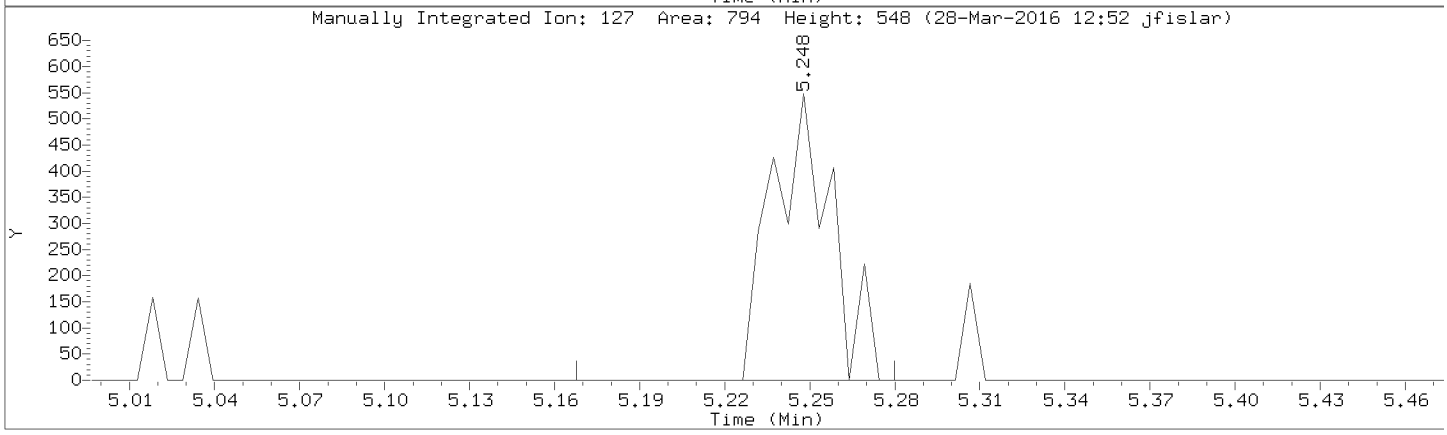






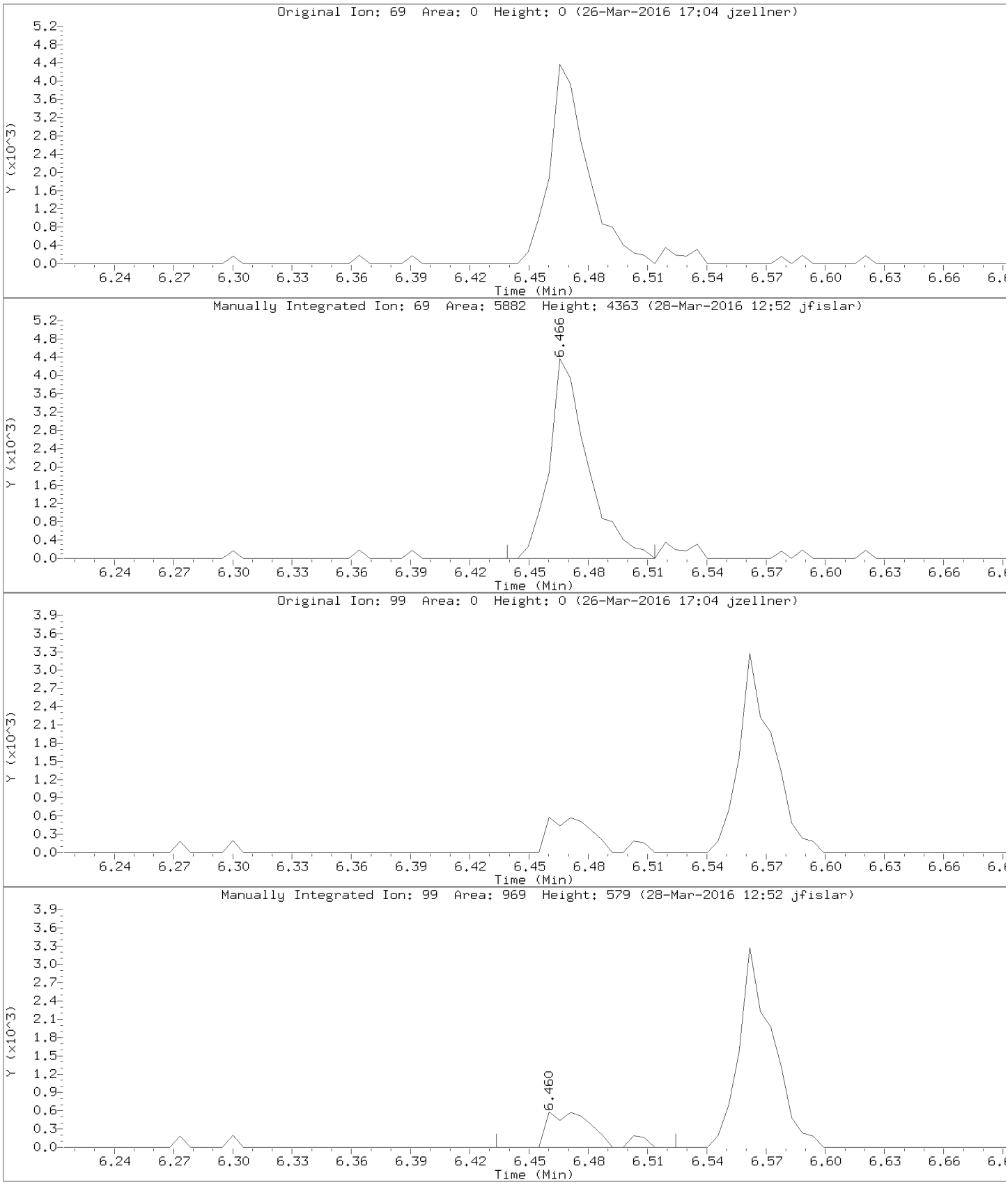
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0



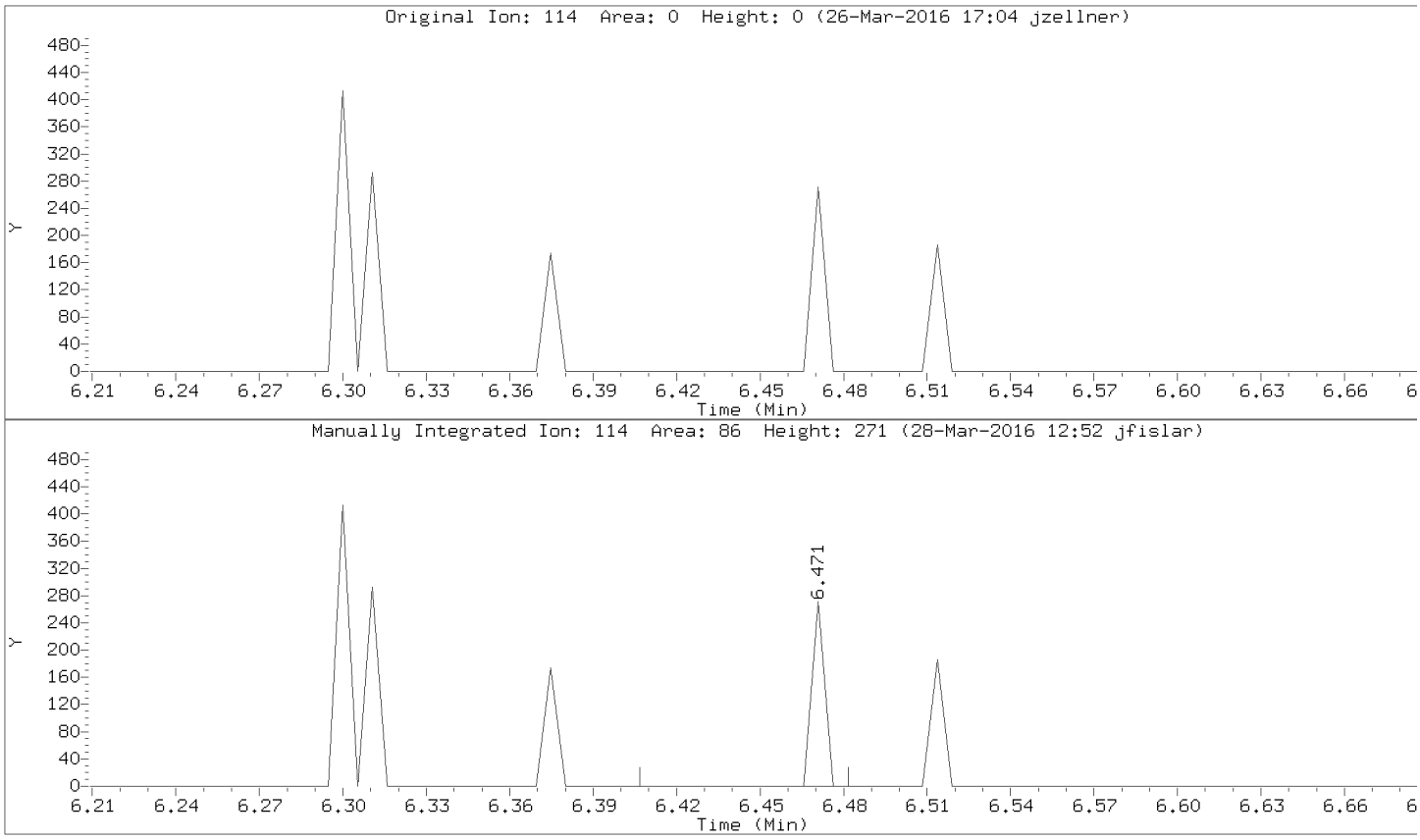


Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

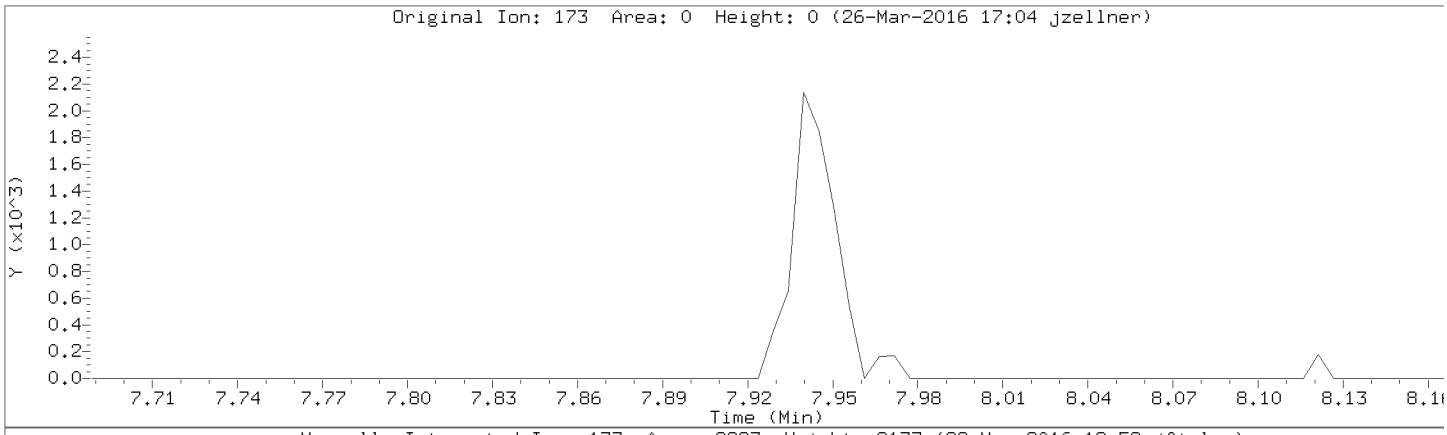


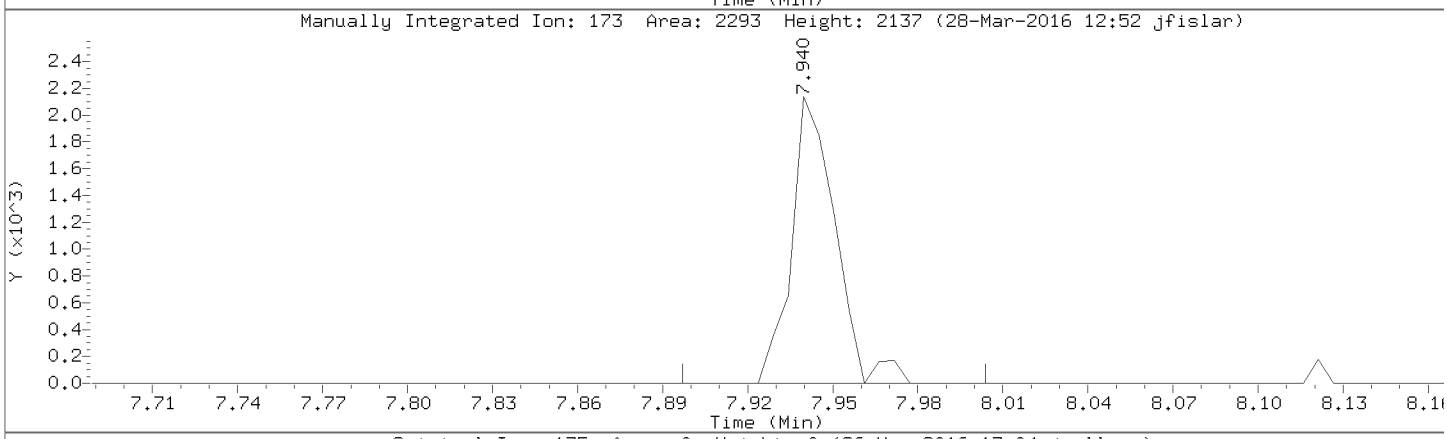
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

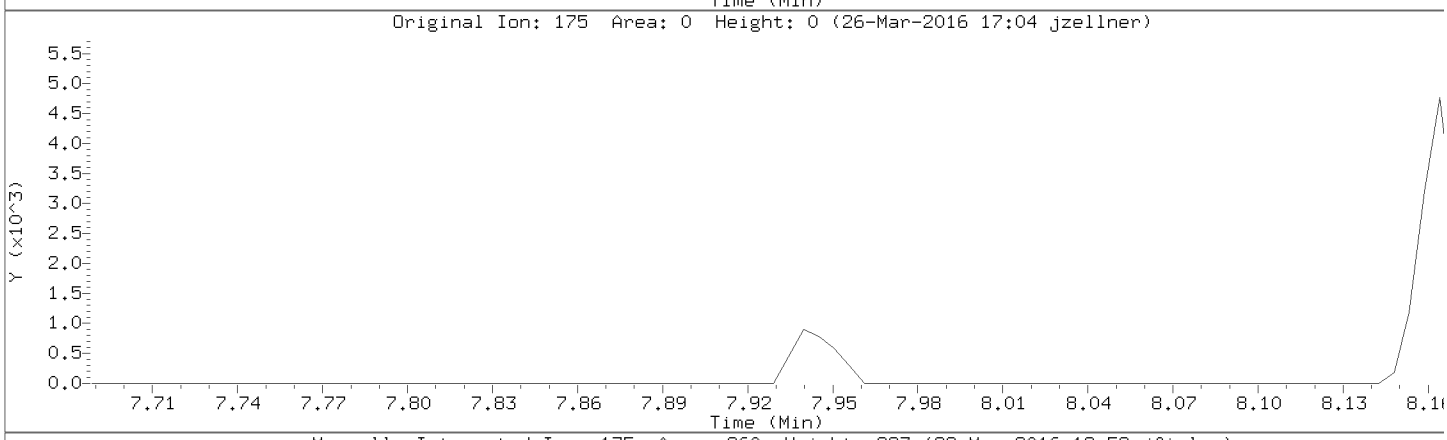


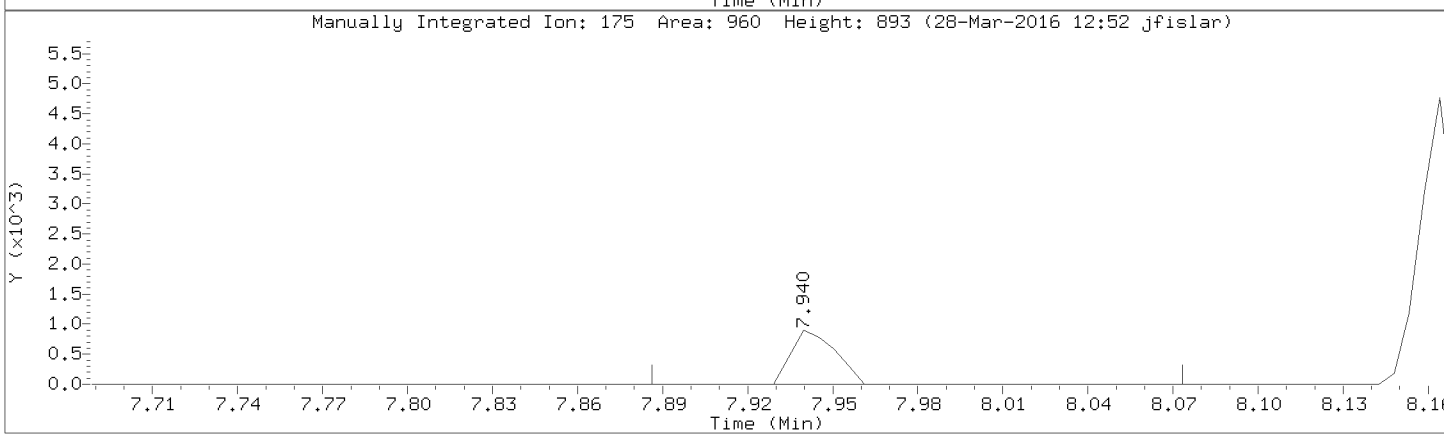
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

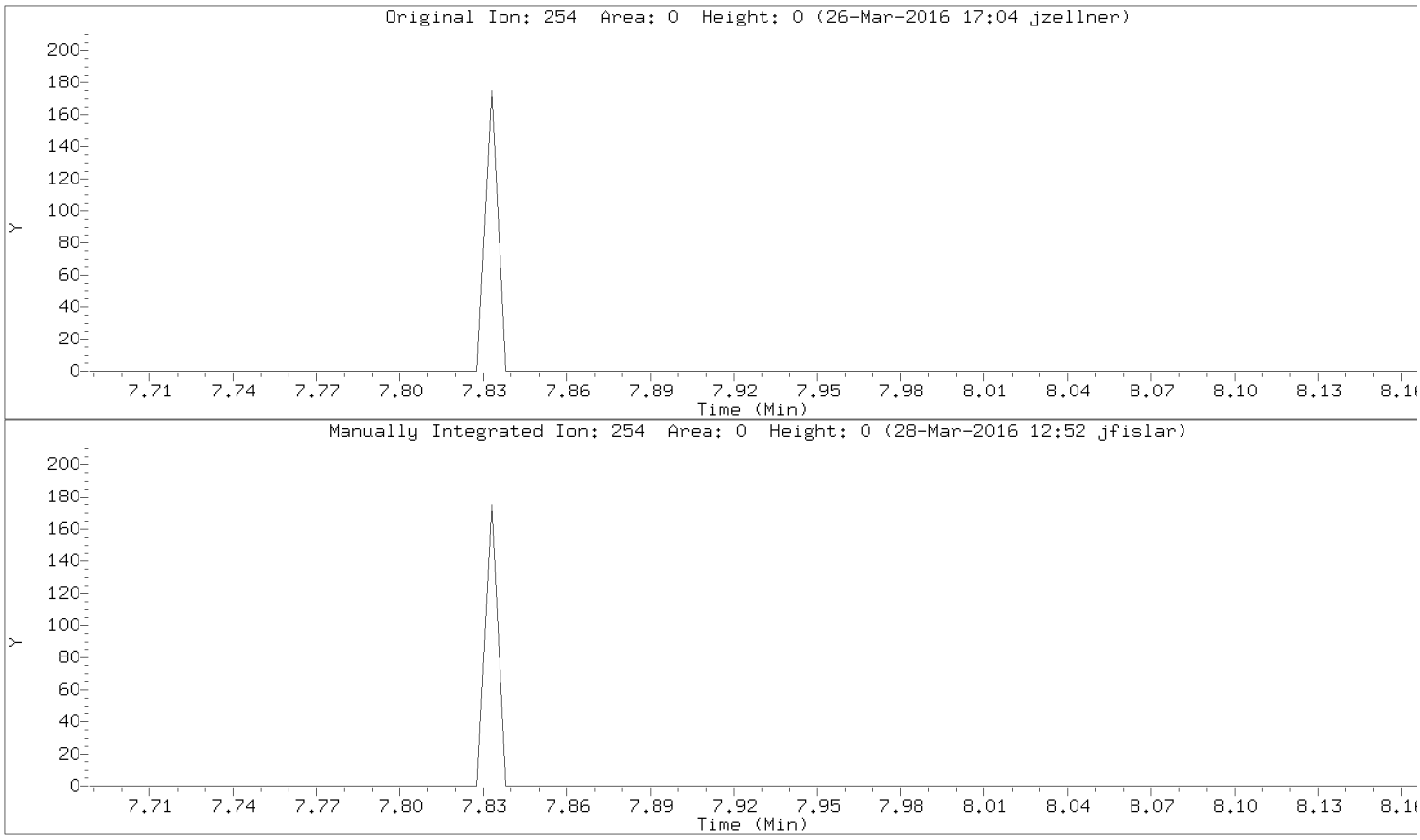






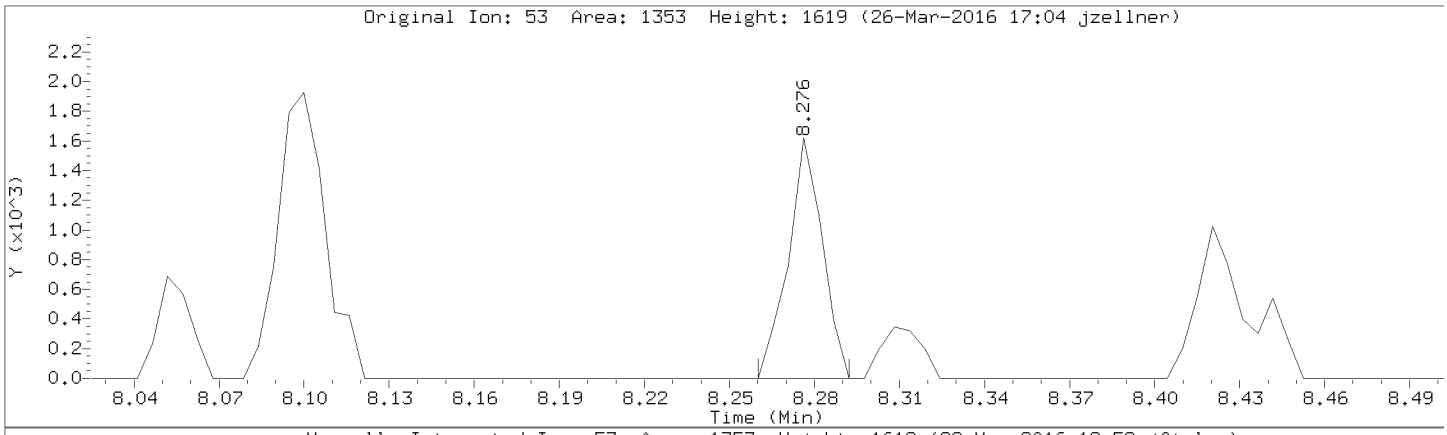


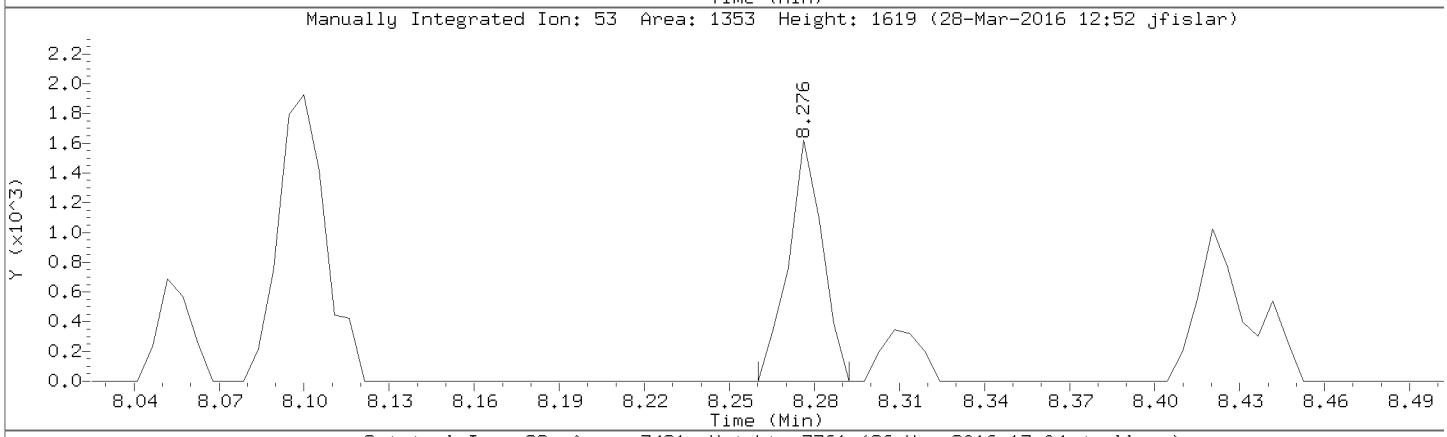
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

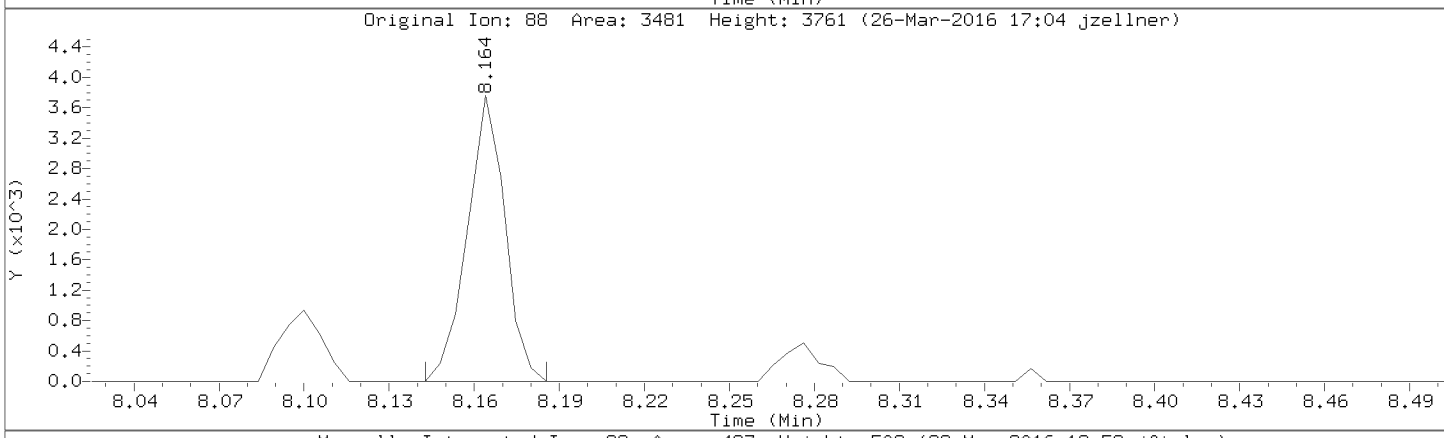


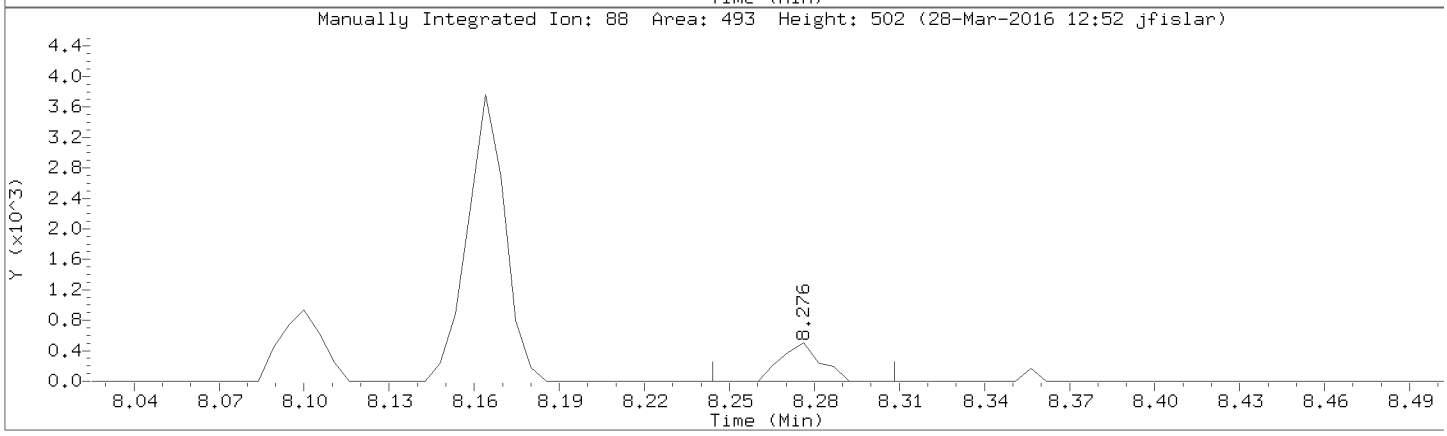
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

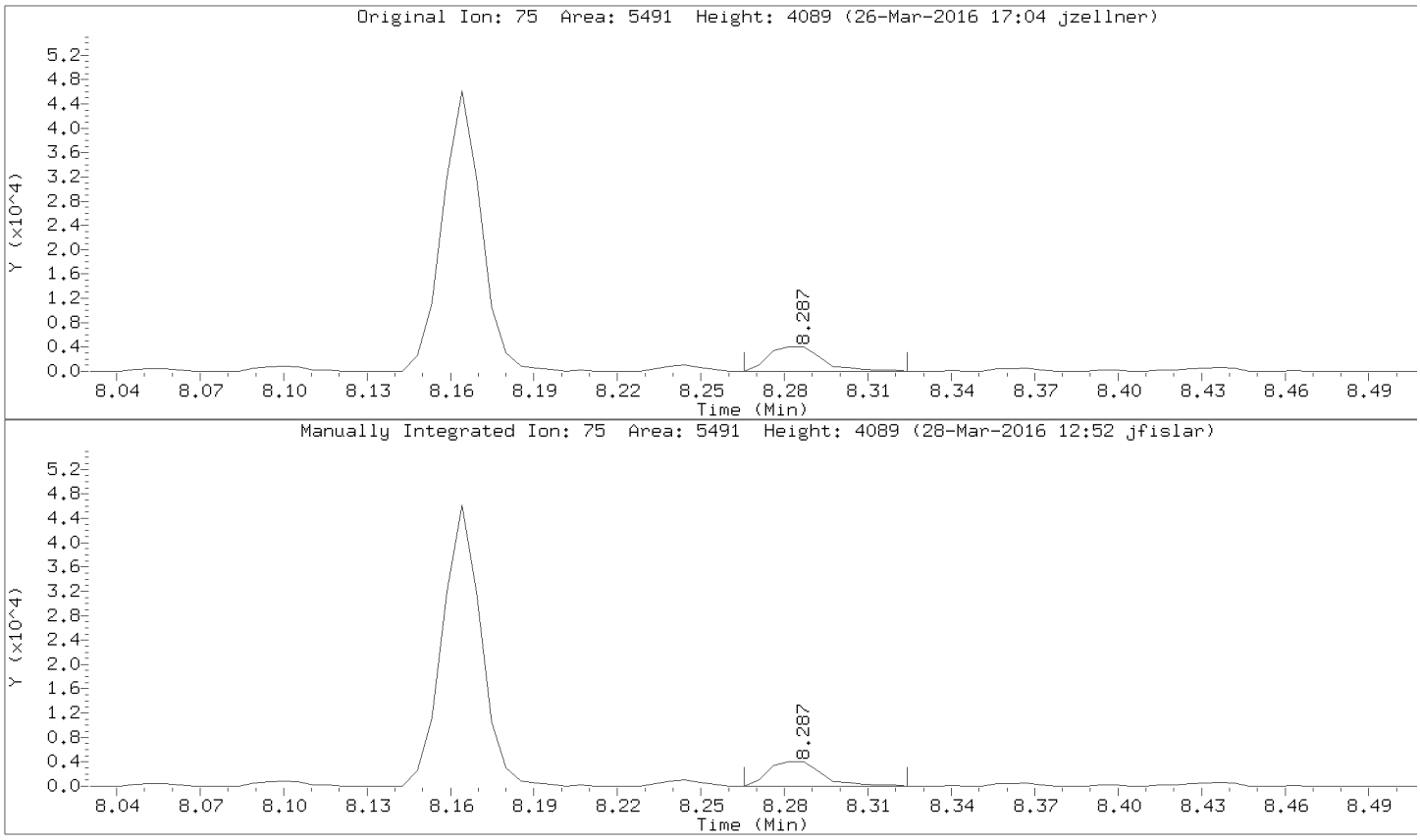






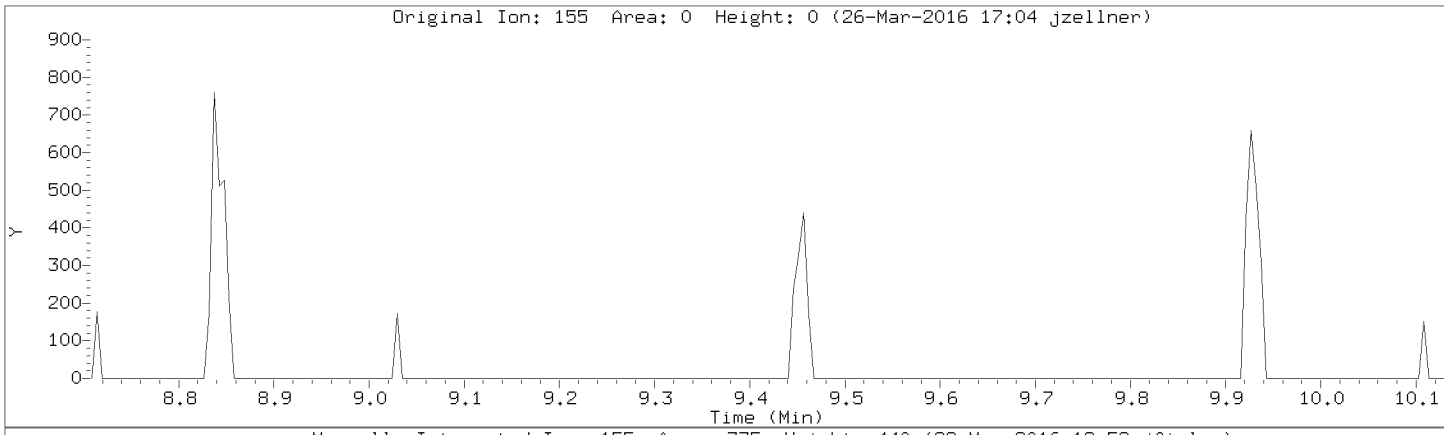


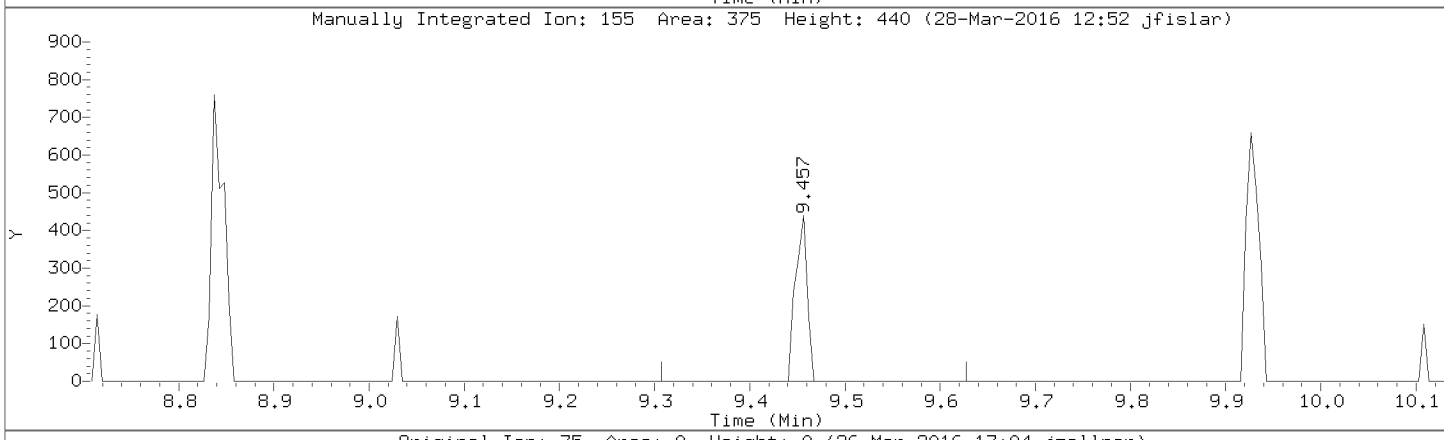
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

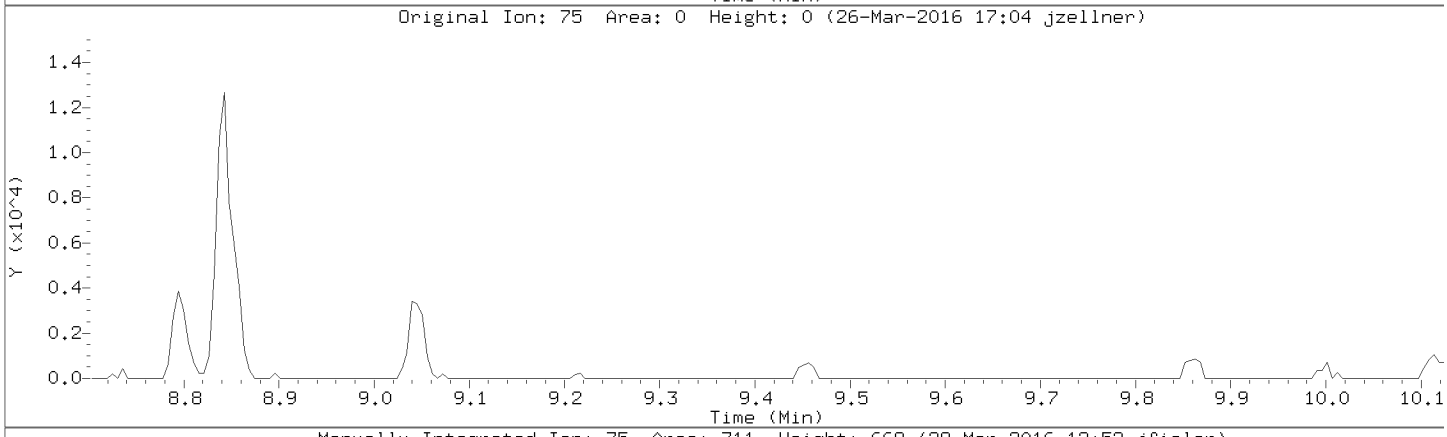


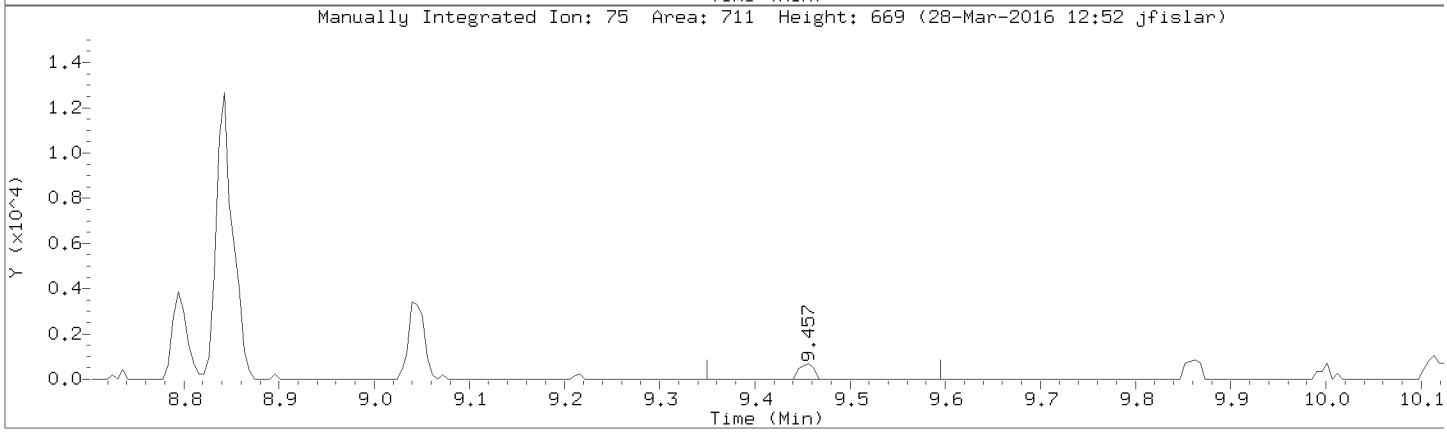
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8

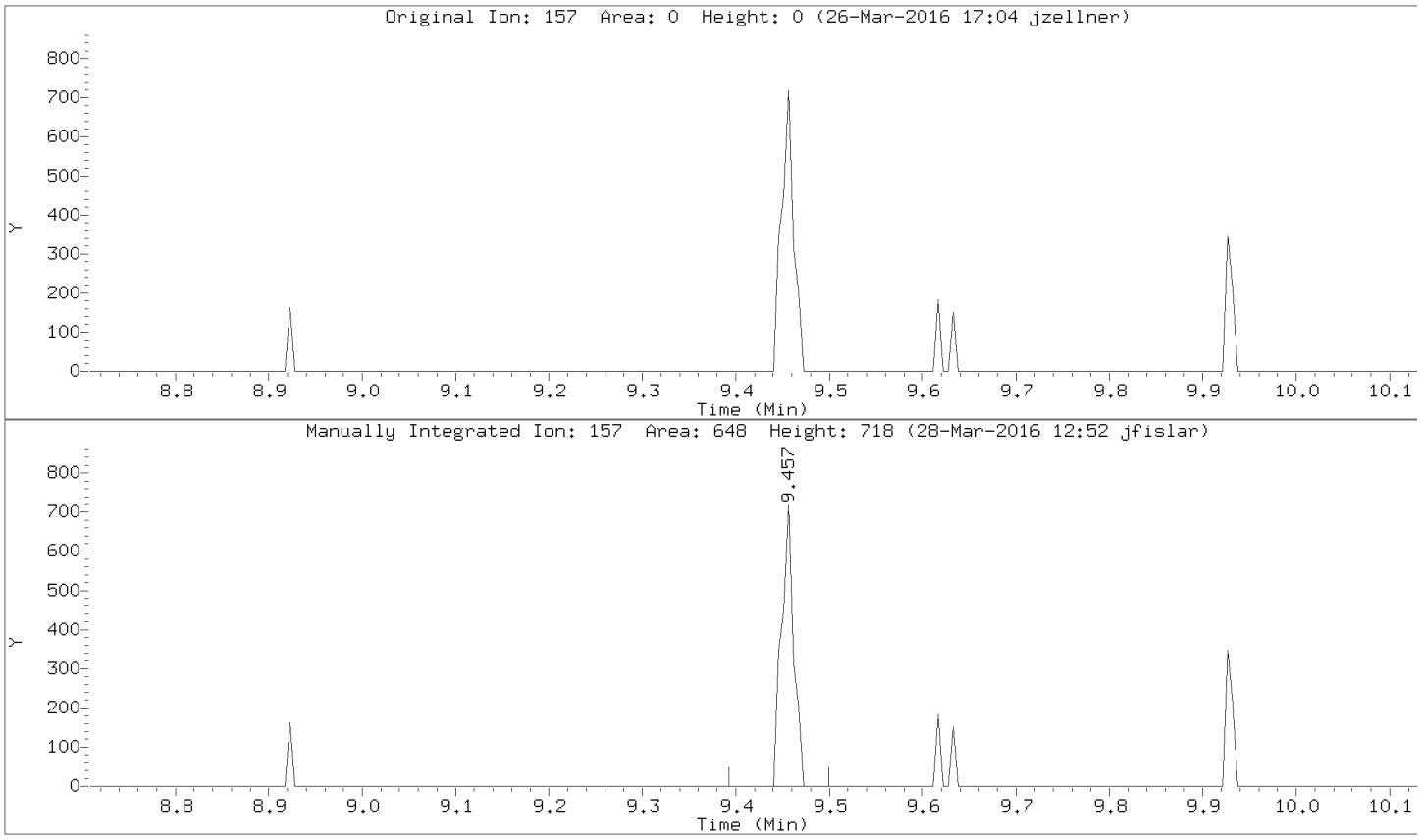








Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a06cal3.d
Injection Date: 25-MAR-2016 16:41
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL3,117888:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a07cal4.d
Lab Smp Id: 8260-CAL4,117889:0
Inj Date : 25-MAR-2016 17:13
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal4,117889:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 17:13   Cal File: a07cal4.d
Als bottle: 15   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.906	0.905	(0.218)	31363	10.0000	11.4	
2	Chloromethane	50	0.992	0.996	(0.238)	41139	10.0000	11.0	
3	Vinyl Chloride	62	1.040	1.039	(0.250)	41968	10.0000	11.3	
4	Bromomethane	94	1.184	1.183	(0.284)	20612	10.0000	11.2	
5	Chloroethane	64	1.232	1.226	(0.296)	23555	10.0000	11.2	
6	Trichlorofluoromethane	101	1.344	1.343	(0.323)	51064	10.0000	11.0	
7	Diethyl ether	74	1.467	1.466	(0.352)	15124	10.0000	10.1	
8	1,2-dichlorotrifluoroethane	67	1.483	1.482	(0.356)	37102	10.0000	10.6	
9	Acrolein	56	1.536	1.536	(0.369)	70736	200.000	216	
10	1,1,2trichlorotrifluoroethane	101	1.590	1.589	(0.382)	33545	10.0000	11.0	
11	1,1-Dichloroethene	96	1.595	1.594	(0.383)	26341	10.0000	10.1	
12	Acetone	43	1.606	1.605	(0.386)	29930	50.0000	54.3	
13	Iodomethane	142	1.681	1.680	(0.404)	60071	20.0000	21.6	
14	Carbon Disulfide	76	1.729	1.728	(0.415)	88515	10.0000	10.2	
15	Methyl Acetate	43	1.777	1.776	(0.427)	16104	10.0000	10.9	
16	allyl chloride	41	1.788	1.787	(0.429)	111541	20.0000	21.8	
17	Acetonitrile	39	1.793	1.787	(0.431)	76620	10.0000	10.8	
18	Methylene Chloride	84	1.868	1.867	(0.449)	22123	10.0000	9.93	
19	Acrylonitrile	53	2.001	2.000	(0.481)	19805	40.0000	37.7	
20	Methyl-tert-butyl ether	73	2.028	2.027	(0.487)	48943	10.0000	9.55	
21	tert-Butyl Alcohol	59	1.900	1.910	(0.456)	1905	20.0000	16.2(Q)	
22	1,2-Dichloroethene (trans)	96	2.039	2.038	(0.490)	23927	10.0000	9.96	
23	n-Hexane	57	2.225	2.219	(0.534)	50947	10.0000	9.92	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.332	2.331	(0.560)	149062	40.0000	38.9	
	25 1,1-Dichloroethane	63	2.343	2.342	(0.563)	42103	10.0000	9.79	
	26 Chloroprene	53	2.396	2.396	(0.576)	39651	10.0000	10.0	
	27 2-Butanone	43	2.802	2.796	(0.673)	49973	50.0000	60.9	
	28 1,2-Dichloroethene (cis)	96	2.813	2.818	(0.676)	23857	10.0000	9.99	
	29 2,2-Dichloropropane	77	2.824	2.823	(0.678)	24174	10.0000	9.11	
	30 Propionitrile	54	2.866	2.866	(0.688)	1768	10.0000	9.65(Q)	
	31 Methacrylonitrile	41	3.005	3.004	(0.722)	13541	10.0000	12.0(Q)	
	32 Bromochloromethane	49	3.048	3.053	(0.732)	18687	10.0000	10.9	
	33 Tetrahydrofuran	42	3.080	3.069	(0.740)	4877	10.0000	9.54	
	34 Chloroform	83	3.160	3.159	(0.759)	40105	10.0000	10.6	
$	35 Dibromofluoromethane (S)	113	3.336	3.336	(0.801)	95774	50.0000	48.8	
	36 1,1,1-Trichloroethane	97	3.331	3.330	(0.800)	33922	10.0000	10.3	
	37 Cyclohexane	56	3.422	3.421	(0.822)	46675	10.0000	10.4	
	38 n-Butyl chloride	56	3.481	3.485	(0.836)	53690	10.0000	10.6	
	39 Carbon Tetrachloride	117	3.518	3.517	(0.845)	26834	10.0000	9.73	
	40 1,1-Dichloropropene	75	3.529	3.523	(0.847)	34119	10.0000	10.6	
	41 Benzene	78	3.769	3.768	(0.905)	94791	10.0000	10.5	
	42 1,2-Dichloroethane	62	3.855	3.854	(0.926)	24646	10.0000	9.96	
	43 2,2,4-Trimethylpentane	57	3.945	3.944	(0.947)	103104	10.0000	10.3	
	44 Isobutyl alcohol	43	3.945	3.950	(0.947)	20588	10.0000	9.83	
*	45 Fluorobenzene (IS)	96	4.164	4.169	(1.000)	435646	50.0000		
	46 Trichloroethene	95	4.618	4.617	(1.109)	22145	10.0000	10.0	
	47 Methylcyclohexane	55	4.885	4.885	(1.173)	33918	10.0000	10.5	
	48 1,2-Dichloropropane	63	4.928	4.922	(1.183)	21078	10.0000	10.2	
	49 Dibromomethane	93	5.024	5.018	(1.206)	9725	10.0000	10.4	
	50 1,4-Dioxane	88	5.035	5.029	(1.209)	2207	200.000	172	
	51 Methyl methacrylate	69	5.040	5.039	(1.210)	7492	10.0000	8.13	
	52 Bromodichloromethane	83	5.249	5.248	(1.260)	24511	10.0000	10.2	
	53 2-Chloroethyl vinyl ether	63	5.601	5.600	(0.763)	14220	20.0000	19.5	
	54 cis-1,3-Dichloropropene	75	5.745	5.744	(0.782)	24179	10.0000	9.24	
	55 4-Methyl-2-Pentanone	43	5.922	5.921	(0.806)	64228	50.0000	46.6	
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	363655	50.0000	49.7	
	57 Toluene	91	6.092	6.092	(0.830)	87607	10.0000	9.34	
	58 trans-1,3-Dichloropropene	75	6.381	6.380	(0.869)	17377	10.0000	9.37	
	59 Ethyl Methacrylate	69	6.466	6.465	(0.881)	13618	10.0000	8.47(M)	NI
	60 1,1,2-Trichloroethane	83	6.562	6.562	(0.894)	10431	10.0000	9.41	
	61 Tetrachloroethene	166	6.616	6.615	(0.901)	17513	10.0000	9.40	
	62 1,3-Dichloropropane	76	6.707	6.706	(0.913)	23738	10.0000	10.2	
	63 2-Hexanone	43	6.776	6.775	(0.923)	39137	50.0000	46.8	
	64 Dibromochloromethane	129	6.888	6.887	(0.938)	11593	10.0000	9.19	
	65 1,2-Dibromoethane	107	6.974	6.973	(0.950)	11038	10.0000	10.1	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	212948	50.0000		
	67 Chlorobenzene	112	7.369	7.368	(1.004)	44725	10.0000	10.3	
	68 1,1,1,2-Tetrachloroethane	131	7.444	7.443	(1.014)	12401	10.0000	9.37	
	69 Ethylbenzene	106	7.449	7.448	(1.015)	23737	10.0000	9.67	
	70 m&p-Xylene	106	7.545	7.544	(1.028)	59608	20.0000	19.9	
	71 o-Xylene	106	7.807	7.806	(1.063)	26975	10.0000	10.2	
	72 Styrene	104	7.823	7.827	(1.065)	44351	10.0000	10.2	
	73 Bromoform	173	7.940	7.940	(0.898)	4644	10.0000	8.91	
	74 Isopropylbenzene	105	8.053	8.052	(1.097)	70894	10.0000	10.3	
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	90278	50.0000	51.3	
	76 Bromobenzene	77	8.245	8.244	(1.123)	25130	10.0000	9.96	
	77 1,1,2,2-Tetrachloroethane	83	8.256	8.255	(0.934)	12129	10.0000	10.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.277	8.276	(1.127)	2937	10.0000	9.20	
79	1,2,3-Trichloropropane	110	8.288	8.287	(0.938)	3259	10.0000	9.76	
80	n-Propylbenzene	91	8.309	8.308	(0.940)	85147	10.0000	10.4	
81	2-Chlorotoluene	91	8.362	8.362	(0.946)	45336	10.0000	10.2	
82	1,3,5-Trimethylbenzene	105	8.421	8.420	(0.953)	51571	10.0000	10.2	
83	4-Chlorotoluene	126	8.437	8.436	(0.955)	15110	10.0000	10.4	
84	tert-Butylbenzene	119	8.603	8.602	(0.973)	55220	10.0000	10.0	
85	1,2,4-Trimethylbenzene	105	8.635	8.634	(0.977)	50649	10.0000	10.3	
86	sec-Butylbenzene	105	8.726	8.725	(0.987)	69021	10.0000	10.5	
87	1,3-Dichlorobenzene	146	8.795	8.794	(0.995)	23239	10.0000	9.38	
88	p-Isopropyltoluene	119	8.811	8.816	(0.997)	54921	10.0000	10.2	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	75833	50.0000		
90	1,4-Dichlorobenzene	146	8.854	8.853	(1.002)	24486	10.0000	9.58	
91	n-Butylbenzene	91	9.030	9.029	(1.022)	54562	10.0000	10.4	
92	1,2-Dichlorobenzene	146	9.046	9.045	(1.024)	22168	10.0000	9.99	
93	1,2,4-Trichlorobenzene	180	9.858	9.862	(1.115)	13628	10.0000	10.0	
94	1,2-Dibromo-3-chloropropane	155	9.452	9.456	(1.069)	787	10.0000	7.91(QM)	WP
95	Hexachlorobutadiene	225	9.927	9.926	(1.123)	8304	10.0000	10.6	
96	Naphthalene	128	10.002	10.001	(1.132)	26991	10.0000	9.22	
97	1,2,3-Trichlorobenzene	180	10.114	10.113	(1.144)	12969	10.0000	10.2	
98	2,methyl-naphthalene	142	10.632	10.632	(1.203)	17440	10.0000	9.19	
99	1-Methylnaphthalene	142	10.744	10.749	(1.216)	14999	10.0000	9.04	

QC Flag Legend

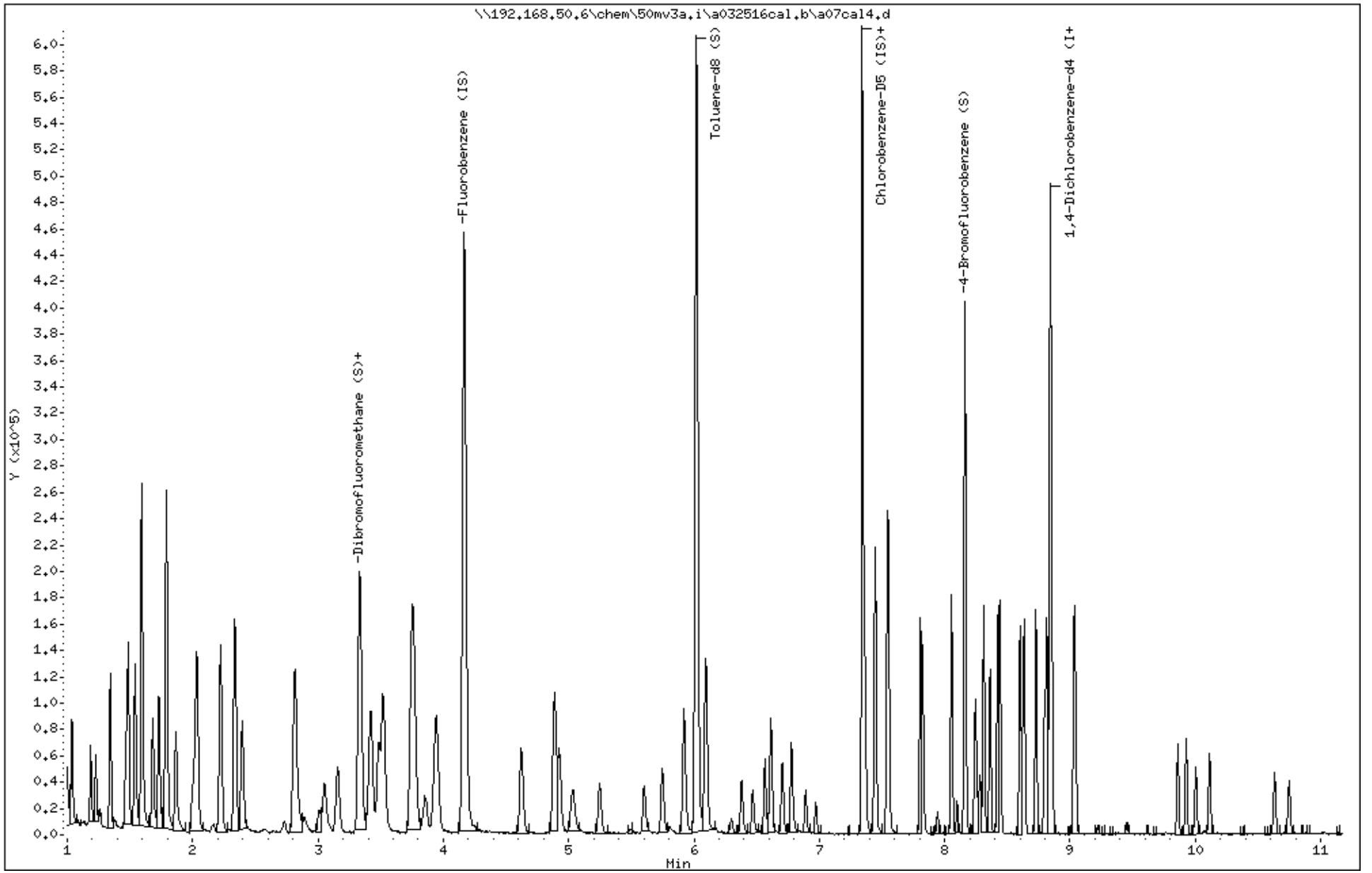
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

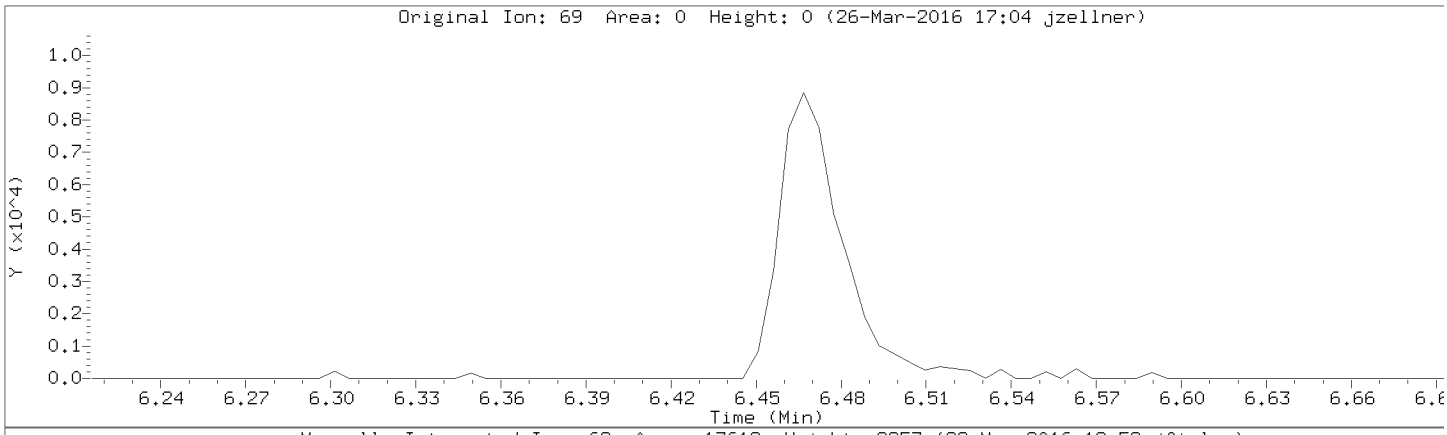
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a07cal4.d
Date : 25-MAR-2016 17:13
Client ID:
Sample Info: 8260-CAL4,117889:0
Purge Volume: 5.0
Column phase: DB-624

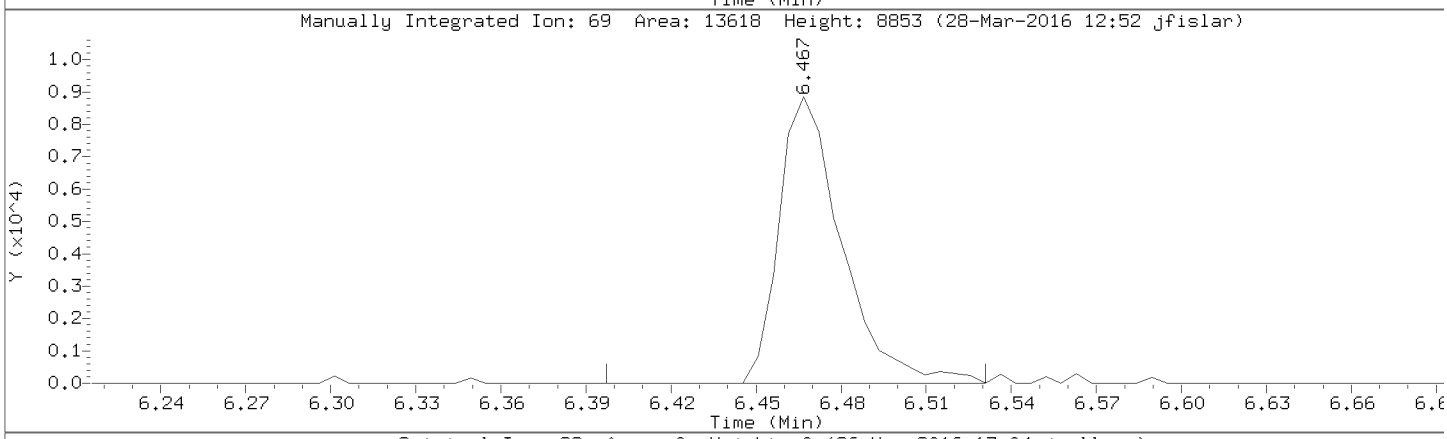
Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18

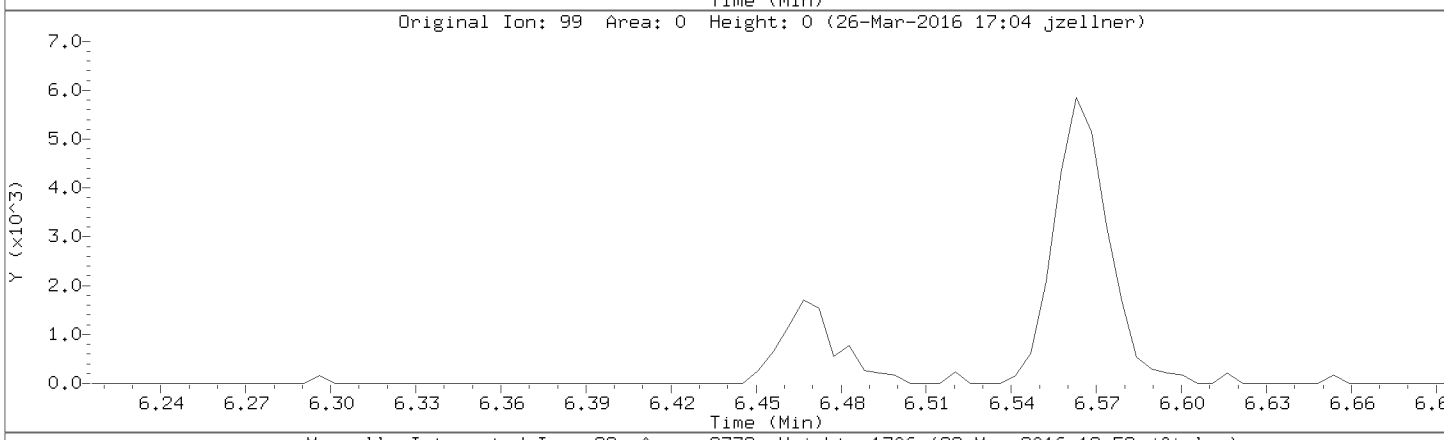


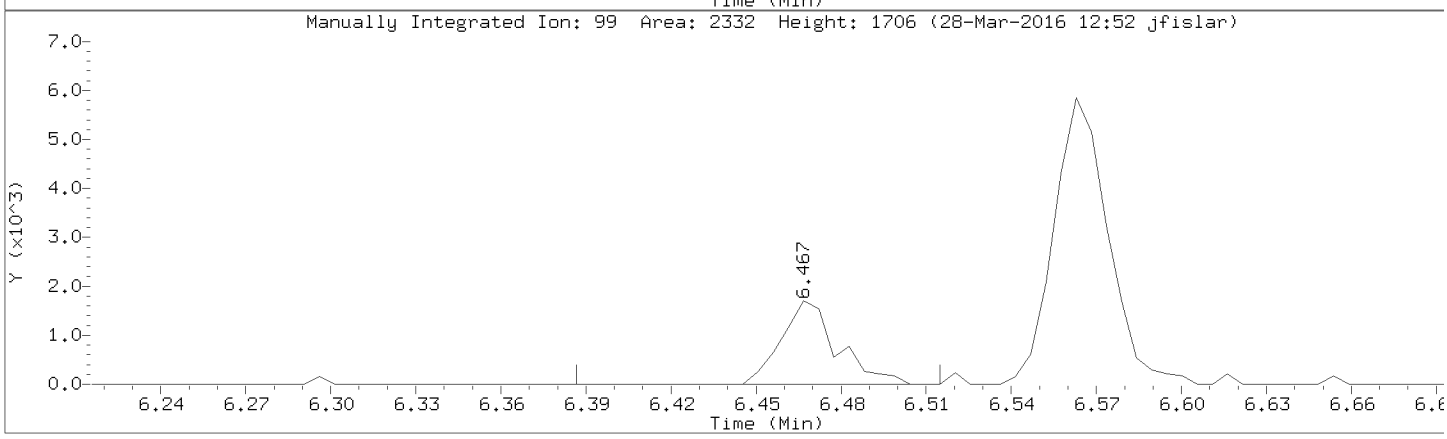
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a07cal4.d
Injection Date: 25-MAR-2016 17:13
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL4,117889:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

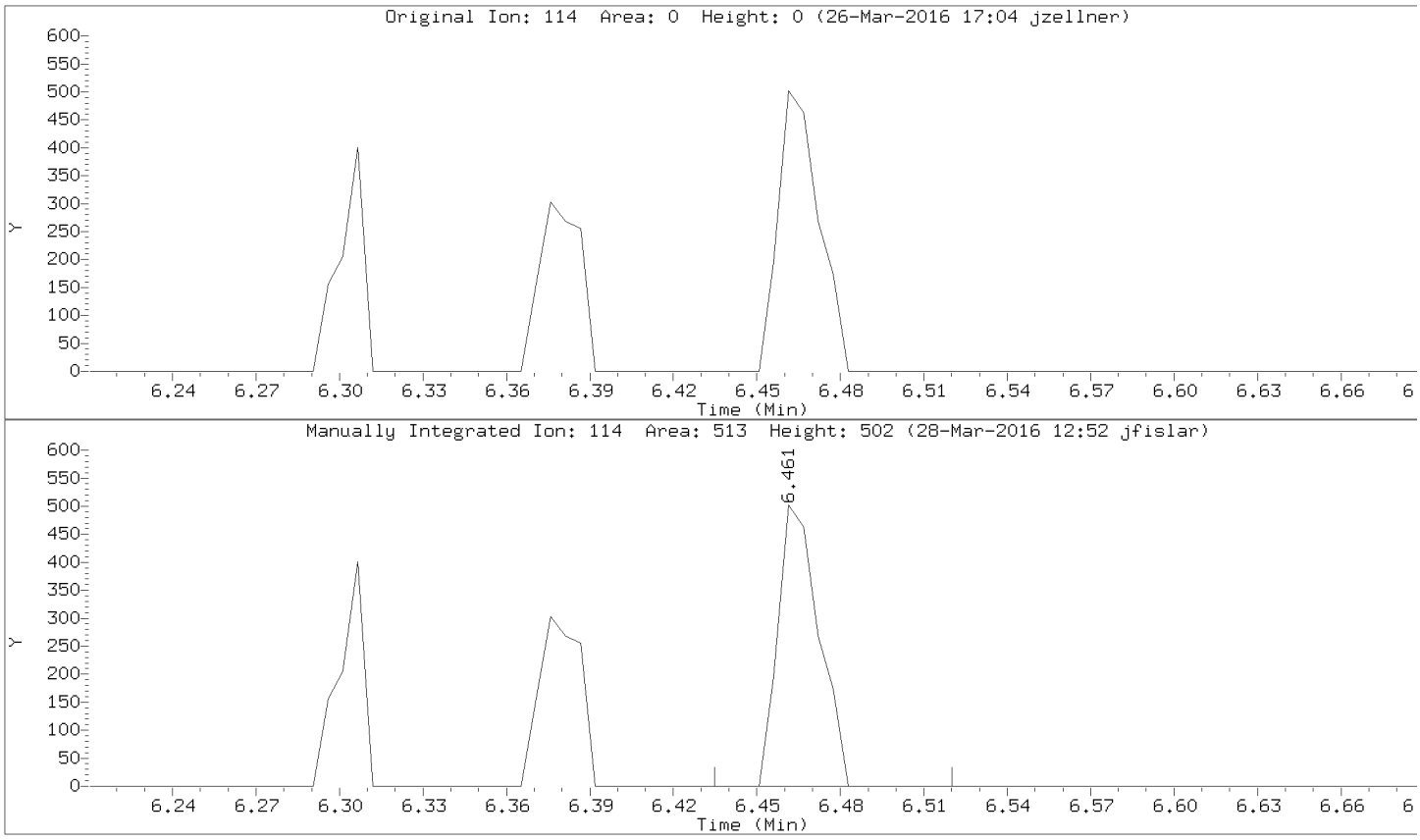






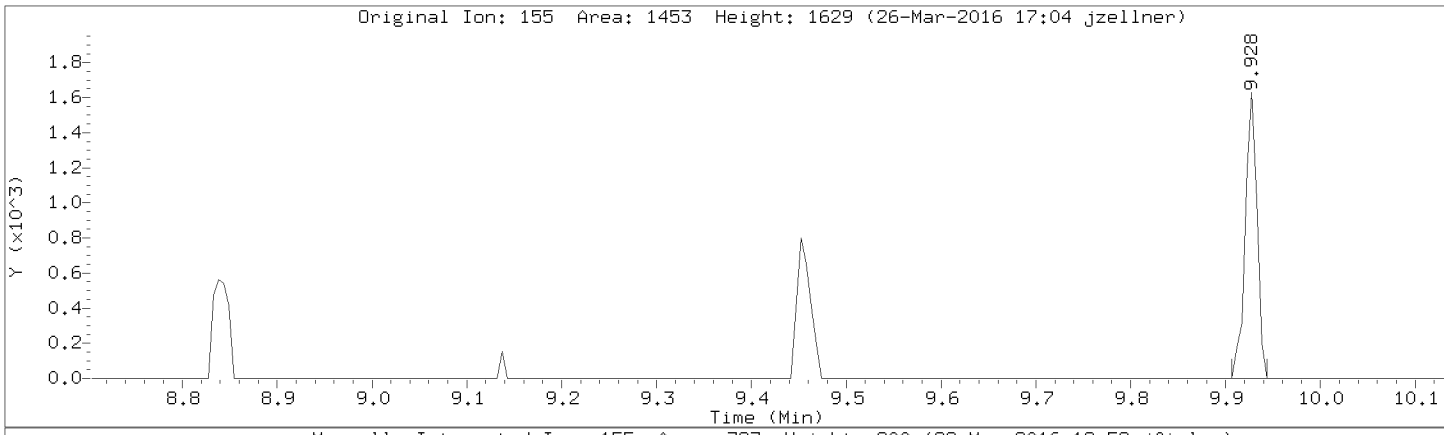


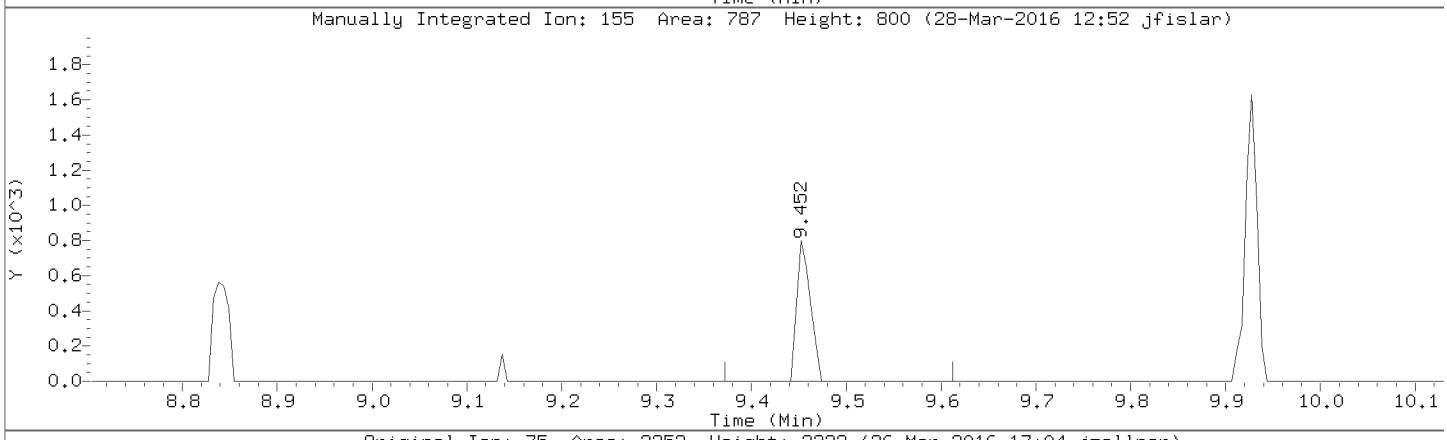
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a07cal4.d
Injection Date: 25-MAR-2016 17:13
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL4,117889:0

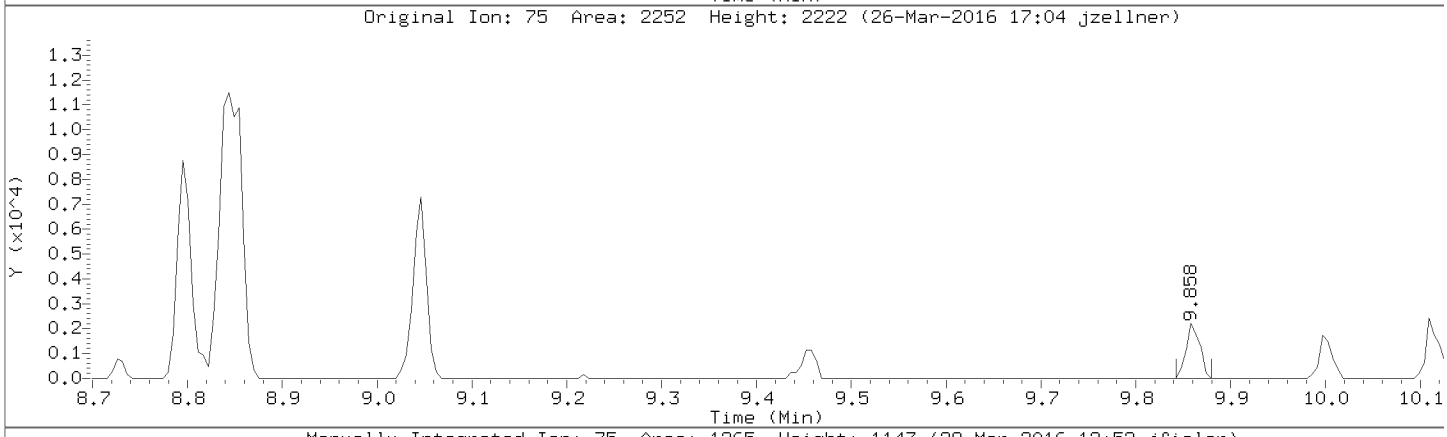


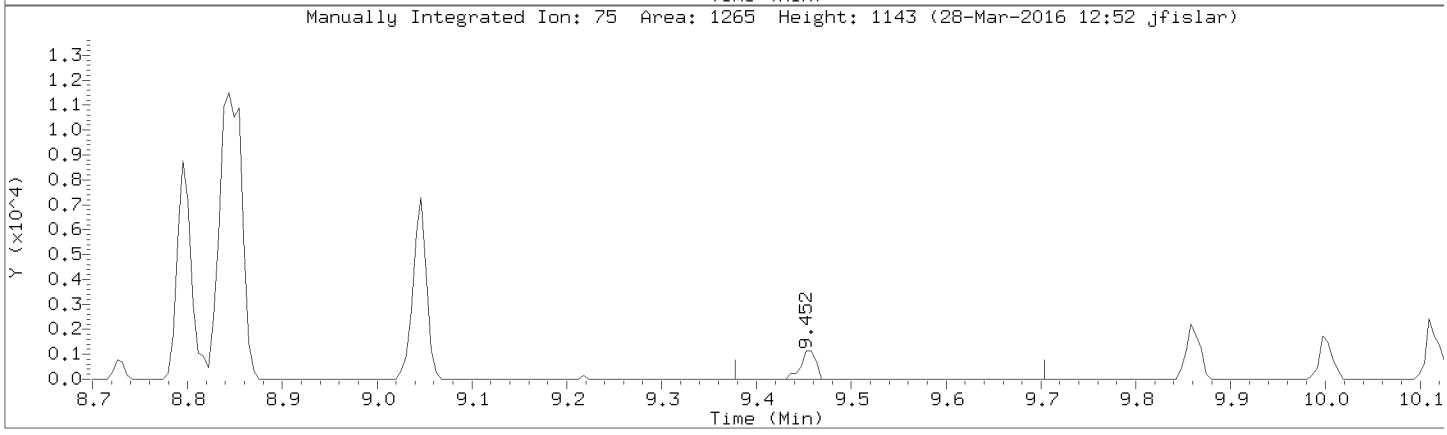
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a07cal4.d
Injection Date: 25-MAR-2016 17:13
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL4,117889:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: WP
CAS Number: 96-12-8

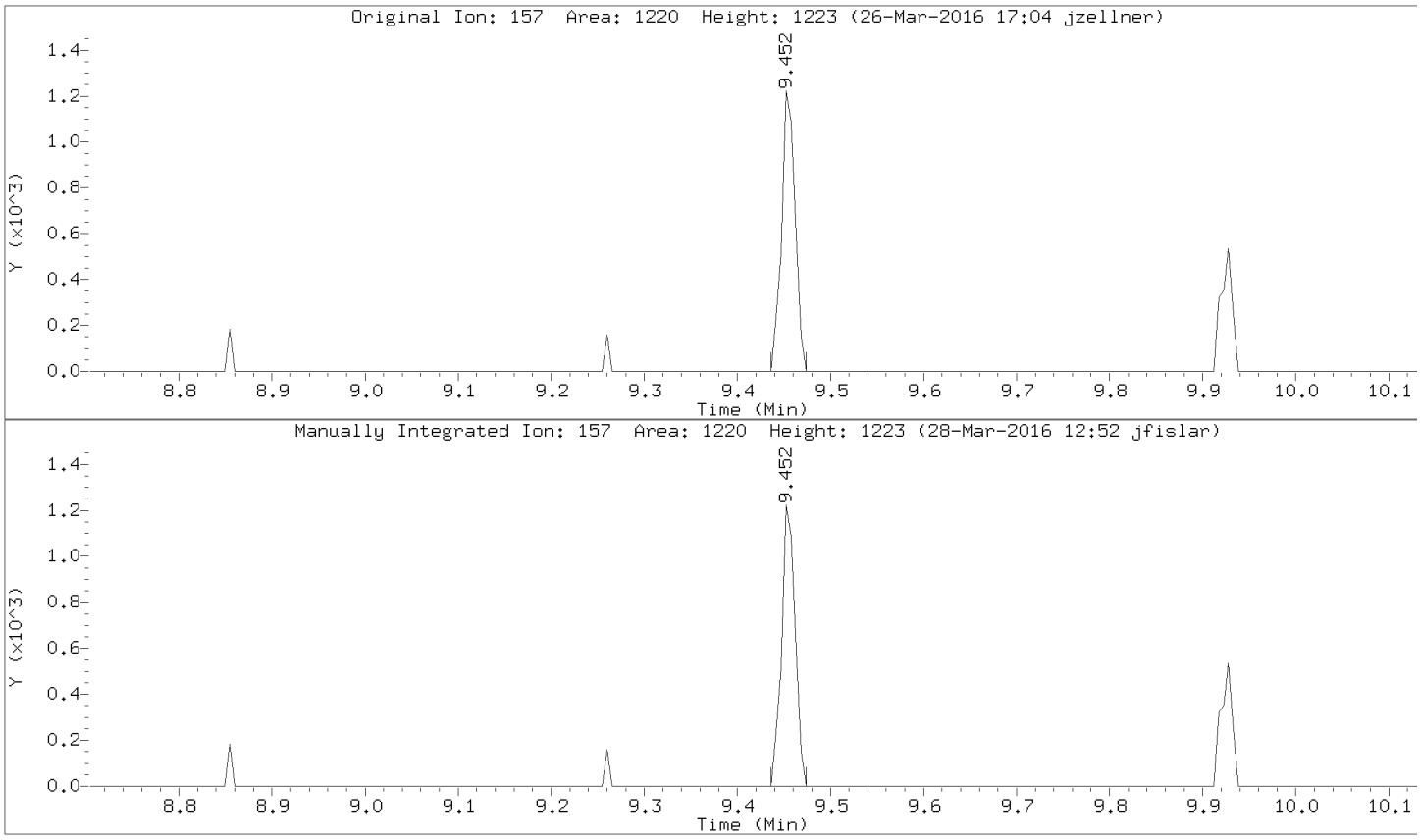








Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a07cal4.d
Injection Date: 25-MAR-2016 17:13
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL4,117889:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a08cal5.d
Lab Smp Id: 8260-CAL5,117890:0
Inj Date : 25-MAR-2016 17:45
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal5,117890:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 17:45   Cal File: a08cal5.d
Als bottle: 17   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.905	0.905	(0.218)	58377	20.0000	20.8	
2	Chloromethane	50	0.996	0.996	(0.239)	73885	20.0000	19.3	
3	Vinyl Chloride	62	1.039	1.039	(0.250)	81230	20.0000	21.5	
4	Bromomethane	94	1.183	1.183	(0.284)	38478	20.0000	20.4	
5	Chloroethane	64	1.226	1.226	(0.294)	46789	20.0000	21.7	
6	Trichlorofluoromethane	101	1.343	1.343	(0.323)	96485	20.0000	20.4	
7	Diethyl ether	74	1.466	1.466	(0.352)	30850	20.0000	20.1	
8	1,2-dichlorotrifluoroethane	67	1.482	1.482	(0.356)	69937	20.0000	19.7	
9	Acrolein	56	1.536	1.536	(0.369)	136732	400.000	410	
10	1,1,2trichlorotrifluoroethane	101	1.594	1.589	(0.383)	61688	20.0000	19.8	
11	1,1-Dichloroethene	96	1.594	1.594	(0.383)	54453	20.0000	20.4	
12	Acetone	43	1.605	1.605	(0.386)	53996	100.000	96.1	
13	Iodomethane	142	1.685	1.680	(0.405)	118622	40.0000	41.9	
14	Carbon Disulfide	76	1.728	1.728	(0.415)	166562	20.0000	18.9	
15	Methyl Acetate	43	1.776	1.776	(0.427)	30170	20.0000	20.1	
16	allyl chloride	41	1.792	1.787	(0.430)	218763	40.0000	41.9	
17	Acetonitrile	39	1.792	1.787	(0.430)	149617	20.0000	20.7	
18	Methylene Chloride	84	1.867	1.867	(0.448)	40783	20.0000	18.0	
19	Acrylonitrile	53	2.000	2.000	(0.480)	43685	80.0000	81.5	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	100641	20.0000	19.3	
21	tert-Butyl Alcohol	59	1.904	1.910	(0.457)	4479	40.0000	37.4(Q)	
22	1,2-Dichloroethene (trans)	96	2.038	2.038	(0.489)	47394	20.0000	19.3	
23	n-Hexane	57	2.219	2.219	(0.533)	90099	20.0000	17.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.331	2.331	(0.560)	309311	80.0000	79.1	
	25 1,1-Dichloroethane	63	2.342	2.342	(0.563)	82959	20.0000	18.9	
	26 Chloroprene	53	2.401	2.396	(0.577)	77933	20.0000	19.3	
	27 2-Butanone	43	2.801	2.796	(0.673)	86136	100.000	103	
	28 1,2-Dichloroethene (cis)	96	2.817	2.818	(0.677)	46916	20.0000	19.3	
	29 2,2-Dichloropropane	77	2.823	2.823	(0.678)	48751	20.0000	18.0	
	30 Propionitrile	54	2.865	2.866	(0.688)	3956	20.0000	21.2(Q)	
	31 Methacrylonitrile	41	3.004	3.004	(0.722)	26406	20.0000	22.9	
	32 Bromochloromethane	49	3.047	3.053	(0.732)	34559	20.0000	19.8	
	33 Tetrahydrofuran	42	3.074	3.069	(0.738)	9867	20.0000	18.9	
	34 Chloroform	83	3.159	3.159	(0.759)	73732	20.0000	19.0	
$	35 Dibromofluoromethane (S)	113	3.330	3.336	(0.800)	99907	50.0000	49.9	
	36 1,1,1-Trichloroethane	97	3.335	3.330	(0.801)	63740	20.0000	19.1	
	37 Cyclohexane	56	3.416	3.421	(0.820)	88928	20.0000	19.4	
	38 n-Butyl chloride	56	3.480	3.485	(0.836)	107234	20.0000	20.7	
	39 Carbon Tetrachloride	117	3.522	3.517	(0.846)	53686	20.0000	19.1	
	40 1,1-Dichloropropene	75	3.528	3.523	(0.847)	64735	20.0000	19.8	
	41 Benzene	78	3.768	3.768	(0.905)	182191	20.0000	19.8	
	42 1,2-Dichloroethane	62	3.854	3.854	(0.926)	49313	20.0000	19.6	
	43 2,2,4-Trimethylpentane	57	3.939	3.944	(0.946)	209063	20.0000	20.5	
	44 Isobutyl alcohol	43	3.944	3.950	(0.947)	41841	20.0000	19.6	
*	45 Fluorobenzene (IS)	96	4.163	4.169	(1.000)	444107	50.0000		
	46 Trichloroethene	95	4.617	4.617	(1.109)	43652	20.0000	19.4	
	47 Methylcyclohexane	55	4.890	4.885	(1.174)	65992	20.0000	20.0	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	41949	20.0000	19.9	
	49 Dibromomethane	93	5.023	5.018	(1.207)	19244	20.0000	20.1	
	50 1,4-Dioxane	88	5.029	5.029	(1.208)	4510	400.000	344	
	51 Methyl methacrylate	69	5.039	5.039	(1.210)	18336	20.0000	19.5	
	52 Bromodichloromethane	83	5.242	5.248	(1.259)	46347	20.0000	18.8	
	53 2-Chloroethyl vinyl ether	63	5.600	5.600	(0.763)	31579	40.0000	42.6	
	54 cis-1,3-Dichloropropene	75	5.744	5.744	(0.782)	52792	20.0000	19.8	
	55 4-Methyl-2-Pentanone	43	5.921	5.921	(0.806)	136696	100.000	97.5	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	371438	50.0000	49.9	
	57 Toluene	91	6.091	6.092	(0.830)	171277	20.0000	17.9	
	58 trans-1,3-Dichloropropene	75	6.380	6.380	(0.869)	38668	20.0000	20.5	
	59 Ethyl Methacrylate	69	6.465	6.465	(0.881)	31578	20.0000	19.3	
	60 1,1,2-Trichloroethane	83	6.561	6.562	(0.894)	22116	20.0000	19.6	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	36588	20.0000	19.3	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	47228	20.0000	19.9	
	63 2-Hexanone	43	6.775	6.775	(0.923)	84147	100.000	98.9	
	64 Dibromochloromethane	129	6.887	6.887	(0.938)	24882	20.0000	19.4	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	21983	20.0000	19.8	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	216797	50.0000		
	67 Chlorobenzene	112	7.363	7.368	(1.003)	84902	20.0000	19.2	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	24638	20.0000	18.3	
	69 Ethylbenzene	106	7.448	7.448	(1.015)	49186	20.0000	19.7	
	70 m&p-Xylene	106	7.544	7.544	(1.028)	119495	40.0000	39.2	
	71 o-Xylene	106	7.806	7.806	(1.063)	54452	20.0000	20.2	
	72 Styrene	104	7.822	7.827	(1.065)	89834	20.0000	20.4	
	73 Bromoform	173	7.945	7.940	(0.899)	10865	20.0000	19.7	
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	143559	20.0000	20.5	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	94651	50.0000	52.8	
	76 Bromobenzene	77	8.244	8.244	(1.123)	49620	20.0000	19.3	
	77 1,1,2,2-Tetrachloroethane	83	8.255	8.255	(0.934)	24805	20.0000	19.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.127)	6447	20.0000	19.8	
79	1,2,3-Trichloropropane	110	8.281	8.287	(0.937)	7228	20.0000	20.5(Q)	
80	n-Propylbenzene	91	8.308	8.308	(0.940)	173563	20.0000	20.1	
81	2-Chlorotoluene	91	8.361	8.362	(0.946)	91909	20.0000	19.5	
82	1,3,5-Trimethylbenzene	105	8.420	8.420	(0.952)	106951	20.0000	20.1	
83	4-Chlorotoluene	126	8.436	8.436	(0.954)	30126	20.0000	19.6	
84	tert-Butylbenzene	119	8.602	8.602	(0.973)	114597	20.0000	19.7	
85	1,2,4-Trimethylbenzene	105	8.634	8.634	(0.976)	104568	20.0000	20.0	
86	sec-Butylbenzene	105	8.725	8.725	(0.987)	141929	20.0000	20.4	
87	1,3-Dichlorobenzene	146	8.794	8.794	(0.995)	49292	20.0000	18.8	
88	p-Isopropyltoluene	119	8.810	8.816	(0.996)	111465	20.0000	19.7	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	80138	50.0000		
90	1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	50213	20.0000	18.6	
91	n-Butylbenzene	91	9.029	9.029	(1.021)	111314	20.0000	20.2	
92	1,2-Dichlorobenzene	146	9.045	9.045	(1.023)	43643	20.0000	18.6	
93	1,2,4-Trichlorobenzene	180	9.857	9.862	(1.115)	26682	20.0000	18.6	
94	1,2-Dibromo-3-chloropropane	155	9.451	9.456	(1.069)	2186	20.0000	20.8(H)	WP
95	Hexachlorobutadiene	225	9.926	9.926	(1.123)	15412	20.0000	18.6	
96	Naphthalene	128	10.001	10.001	(1.131)	58570	20.0000	18.9	
97	1,2,3-Trichlorobenzene	180	10.113	10.113	(1.144)	24804	20.0000	18.4	
98	2,methyl-naphthalene	142	10.631	10.632	(1.202)	38975	20.0000	19.4	
99	1-Methylnaphthalene	142	10.744	10.749	(1.215)	32704	20.0000	18.6	

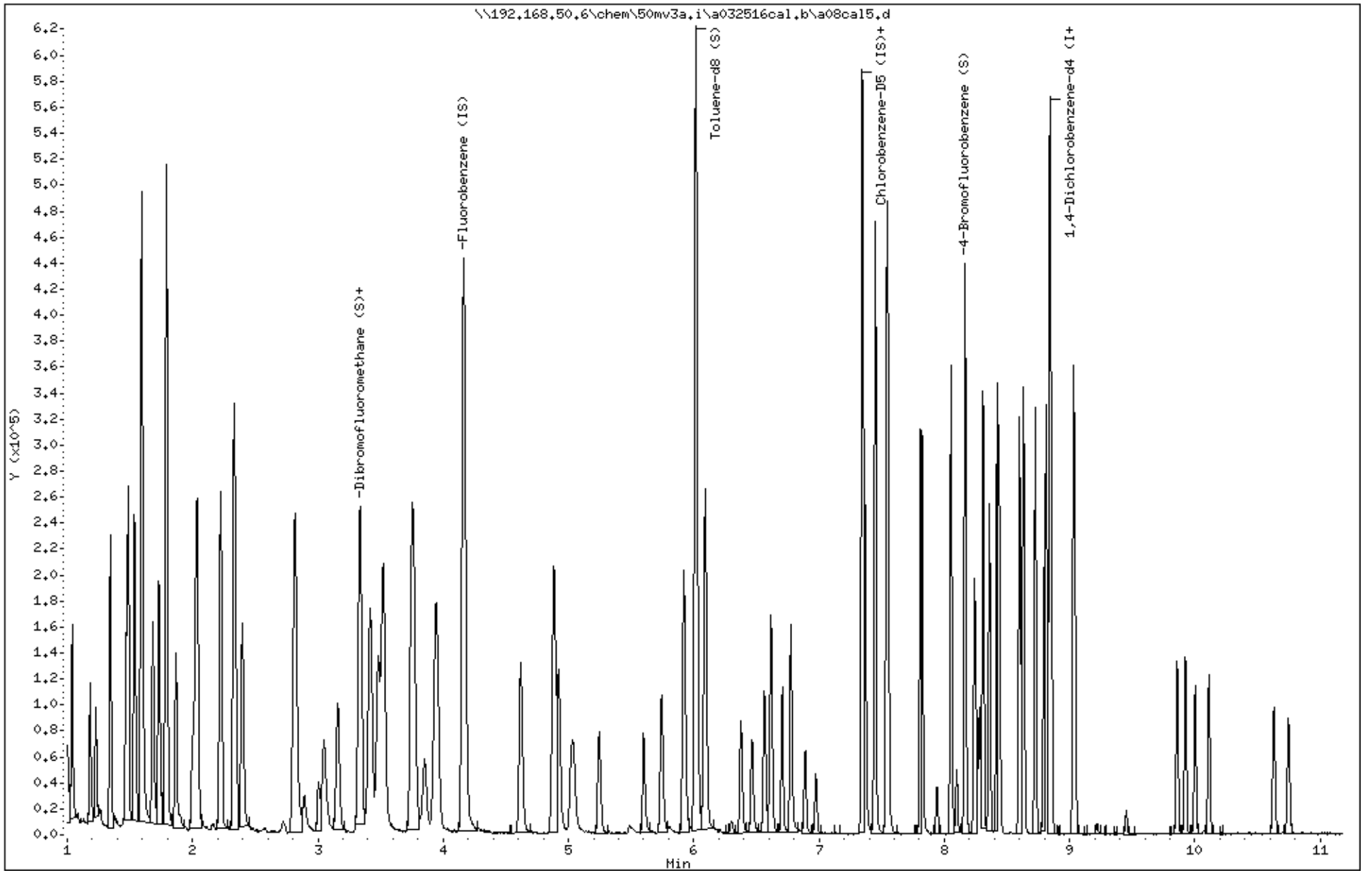
QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a08cal5.d
Date : 25-MAR-2016 17:45
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL5,117890:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a08cal5.d
Injection Date: 25-MAR-2016 17:45
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL5,117890:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a09cal6.d
Lab Smp Id: 8260-CAL6,117891:0
Inj Date : 25-MAR-2016 18:17
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal6,117891:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 18:17   Cal File: a09cal6.d
Als bottle: 19   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.910	0.905	(0.219)	143891	50.0000	47.5	
2	Chloromethane	50	0.996	0.996	(0.239)	172479	50.0000	41.7	
3	Vinyl Chloride	62	1.039	1.039	(0.250)	197088	50.0000	48.3	
4	Bromomethane	94	1.183	1.183	(0.284)	94946	50.0000	46.7	
5	Chloroethane	64	1.226	1.226	(0.294)	115385	50.0000	49.6	
6	Trichlorofluoromethane	101	1.343	1.343	(0.323)	246330	50.0000	48.3	
7	Diethyl ether	74	1.466	1.466	(0.352)	86595	50.0000	52.3	
8	1,2-dichlorotrifluoroethane	67	1.482	1.482	(0.356)	204902	50.0000	53.4	
9	Acrolein	56	1.535	1.536	(0.369)	338351	1000.00	940	
10	1,1,2trichlorotrifluoroethane	101	1.594	1.589	(0.383)	186181	50.0000	55.3	
11	1,1-Dichloroethene	96	1.594	1.594	(0.383)	152785	50.0000	53.0	
12	Acetone	43	1.605	1.605	(0.386)	138152	250.000	228	
13	Iodomethane	142	1.680	1.680	(0.404)	363903	100.000	119	
14	Carbon Disulfide	76	1.728	1.728	(0.415)	463874	50.0000	48.6	
15	Methyl Acetate	43	1.776	1.776	(0.427)	67980	50.0000	41.8	
16	allyl chloride	41	1.792	1.787	(0.430)	544896	100.000	96.5	
17	Acetonitrile	39	1.792	1.787	(0.430)	376537	50.0000	48.3	
18	Methylene Chloride	84	1.867	1.867	(0.448)	113252	50.0000	46.1	
19	Acrylonitrile	53	2.000	2.000	(0.480)	117072	200.000	202	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	294711	50.0000	52.2	
21	tert-Butyl Alcohol	59	1.909	1.910	(0.459)	11668	100.000	90.1(Q)	
22	1,2-Dichloroethene (trans)	96	2.037	2.038	(0.489)	133119	50.0000	50.3	
23	n-Hexane	57	2.224	2.219	(0.534)	267680	50.0000	47.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.331	2.331	(0.560)	888753	200.000	210	
	25 1,1-Dichloroethane	63	2.342	2.342	(0.563)	240776	50.0000	50.8	
	26 Chloroprene	53	2.395	2.396	(0.575)	227533	50.0000	52.1	
	27 2-Butanone	43	2.801	2.796	(0.673)	225149	250.000	249	
	28 1,2-Dichloroethene (cis)	96	2.817	2.818	(0.677)	136677	50.0000	52.0	
	29 2,2-Dichloropropane	77	2.823	2.823	(0.678)	159422	50.0000	54.5	
	30 Propionitrile	54	2.860	2.866	(0.687)	9781	50.0000	48.4(Q)	
	31 Methacrylonitrile	41	3.004	3.004	(0.722)	71251	50.0000	57.3	
	32 Bromochloromethane	49	3.047	3.053	(0.732)	92944	50.0000	49.3	
	33 Tetrahydrofuran	42	3.074	3.069	(0.738)	26051	50.0000	46.2	
	34 Chloroform	83	3.159	3.159	(0.759)	216360	50.0000	51.7	
$	35 Dibromofluoromethane (S)	113	3.330	3.336	(0.800)	107008	50.0000	49.5	
	36 1,1,1-Trichloroethane	97	3.335	3.330	(0.801)	194158	50.0000	53.7	
	37 Cyclohexane	56	3.421	3.421	(0.822)	257669	50.0000	52.0	
	38 n-Butyl chloride	56	3.485	3.485	(0.837)	302957	50.0000	54.1	
	39 Carbon Tetrachloride	117	3.517	3.517	(0.845)	158473	50.0000	52.1	
	40 1,1-Dichloropropene	75	3.528	3.523	(0.847)	189035	50.0000	53.4	
	41 Benzene	78	3.768	3.768	(0.905)	529231	50.0000	53.2	
	42 1,2-Dichloroethane	62	3.853	3.854	(0.926)	134810	50.0000	49.4	
	43 2,2,4-Trimethylpentane	57	3.944	3.944	(0.947)	609275	50.0000	55.2	
	44 Isobutyl alcohol	43	3.944	3.950	(0.947)	119686	50.0000	51.9	
*	45 Fluorobenzene (IS)	96	4.163	4.169	(1.000)	480050	50.0000		
	46 Trichloroethene	95	4.617	4.617	(1.109)	125271	50.0000	51.5	
	47 Methylcyclohexane	55	4.890	4.885	(1.174)	193791	50.0000	54.3	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	120986	50.0000	53.2	
	49 Dibromomethane	93	5.023	5.018	(1.207)	52984	50.0000	51.2	
	50 1,4-Dioxane	88	5.028	5.029	(1.208)	14559	1000.00	1030	
	51 Methyl methacrylate	69	5.039	5.039	(1.210)	59569	50.0000	58.6	
	52 Bromodichloromethane	83	5.247	5.248	(1.260)	135962	50.0000	51.2	
	53 2-Chloroethyl vinyl ether	63	5.600	5.600	(0.763)	94859	100.000	119	
	54 cis-1,3-Dichloropropene	75	5.744	5.744	(0.782)	162942	50.0000	56.7	
	55 4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	400695	250.000	265	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	403978	50.0000	50.3	
	57 Toluene	91	6.091	6.092	(0.830)	494546	50.0000	48.0	
	58 trans-1,3-Dichloropropene	75	6.380	6.380	(0.869)	118786	50.0000	58.3	
	59 Ethyl Methacrylate	69	6.465	6.465	(0.881)	100325	50.0000	56.8	
	60 1,1,2-Trichloroethane	83	6.561	6.562	(0.894)	67393	50.0000	55.3	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	109967	50.0000	53.7	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	140335	50.0000	54.8	
	63 2-Hexanone	43	6.775	6.775	(0.923)	253234	250.000	276	
	64 Dibromochloromethane	129	6.887	6.887	(0.938)	74804	50.0000	54.0	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	65946	50.0000	55.2	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	233889	50.0000		
	67 Chlorobenzene	112	7.368	7.368	(1.004)	242574	50.0000	51.0	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	79296	50.0000	54.5	
	69 Ethylbenzene	106	7.448	7.448	(1.015)	144650	50.0000	53.6	
	70 m&p-Xylene	106	7.544	7.544	(1.028)	351059	100.000	107	
	71 o-Xylene	106	7.806	7.806	(1.063)	152336	50.0000	52.3	
	72 Styrene	104	7.822	7.827	(1.065)	259005	50.0000	54.5	
	73 Bromoform	173	7.939	7.940	(0.898)	31440	50.0000	55.7	
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	418090	50.0000	55.4	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	95353	50.0000	49.3	
	76 Bromobenzene	77	8.244	8.244	(1.123)	138531	50.0000	50.0	
	77 1,1,2,2-Tetrachloroethane	83	8.254	8.255	(0.934)	67808	50.0000	51.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78 trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.127)	18250	50.0000	52.0	
79 1,2,3-Trichloropropane	110	8.281	8.287	(0.937)	19381	50.0000	53.6	
80 n-Propylbenzene	91	8.313	8.308	(0.940)	483733	50.0000	54.6	
81 2-Chlorotoluene	91	8.361	8.362	(0.946)	257722	50.0000	53.2	
82 1,3,5-Trimethylbenzene	105	8.420	8.420	(0.952)	297564	50.0000	54.6	
83 4-Chlorotoluene	126	8.436	8.436	(0.954)	81949	50.0000	52.1	
84 tert-Butylbenzene	119	8.602	8.602	(0.973)	327372	50.0000	54.9	
85 1,2,4-Trimethylbenzene	105	8.634	8.634	(0.976)	289215	50.0000	54.0	
86 sec-Butylbenzene	105	8.730	8.725	(0.987)	396068	50.0000	55.4	
87 1,3-Dichlorobenzene	146	8.794	8.794	(0.995)	134595	50.0000	50.1	
88 p-Isopropyltoluene	119	8.815	8.816	(0.997)	308175	50.0000	53.1	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	82216	50.0000		
90 1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	136659	50.0000	49.3	
91 n-Butylbenzene	91	9.034	9.029	(1.022)	311505	50.0000	55.0	
92 1,2-Dichlorobenzene	146	9.045	9.045	(1.023)	119378	50.0000	49.6	
93 1,2,4-Trichlorobenzene	180	9.862	9.862	(1.115)	73213	50.0000	49.6	
94 1,2-Dibromo-3-chloropropane	155	9.456	9.456	(1.069)	5600	50.0000	51.9(H)	WP
95 Hexachlorobutadiene	225	9.926	9.926	(1.123)	42379	50.0000	49.7	
96 Naphthalene	128	10.001	10.001	(1.131)	162751	50.0000	51.3	
97 1,2,3-Trichlorobenzene	180	10.113	10.113	(1.144)	68726	50.0000	49.8	
98 2,methyl-naphthalene	142	10.631	10.632	(1.202)	109654	50.0000	53.3	
99 1-Methylnaphthalene	142	10.749	10.749	(1.216)	94281	50.0000	52.4	

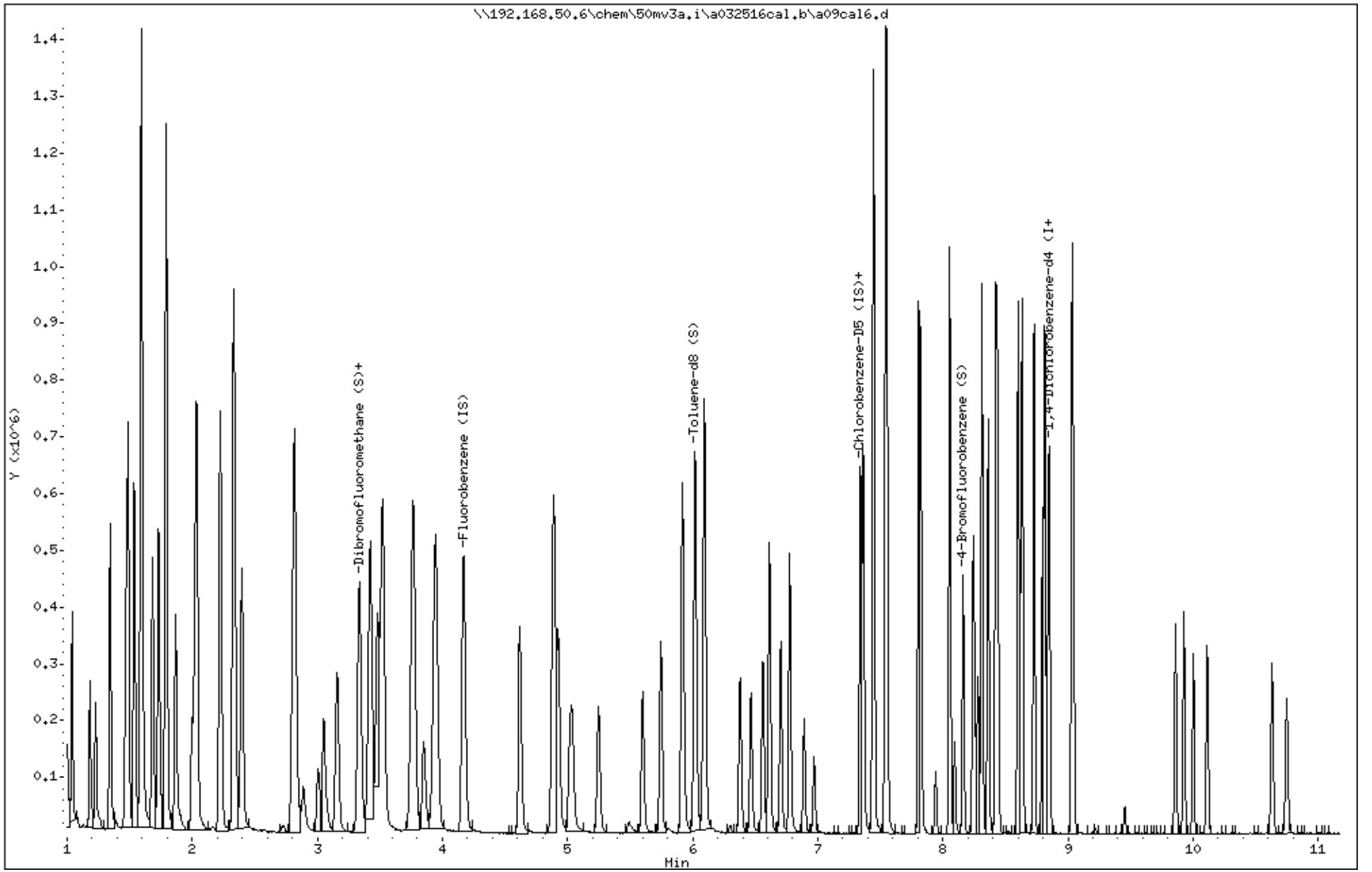
QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a09cal6.d
Date : 25-MAR-2016 18:17
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL6,117891:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a09cal6.d
Injection Date: 25-MAR-2016 18:17
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL6,117891:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a10cal7.d
Lab Smp Id: 8260-CAL7,117892:0
Inj Date : 25-MAR-2016 18:49
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal7,117892:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 18:49   Cal File: a10cal7.d
Als bottle: 21   Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.906	0.905	(0.218)	445357	150.000	144	
2	Chloromethane	50	0.991	0.996	(0.238)	552776	150.000	132	
3	Vinyl Chloride	62	1.034	1.039	(0.248)	607332	150.000	146	
4	Bromomethane	94	1.178	1.183	(0.283)	274518	150.000	133	
5	Chloroethane	64	1.226	1.226	(0.295)	302616	150.000	128	
6	Trichlorofluoromethane	101	1.339	1.343	(0.322)	733019	150.000	141	
7	Diethyl ether	74	1.467	1.466	(0.352)	259602	150.000	154	
8	1,2-dichlorotrifluoroethane	67	1.483	1.482	(0.356)	580063	150.000	149	
9	Acrolein	56	1.536	1.536	(0.369)	1108159	3000.00	3030	
10	1,1,2trichlorotrifluoroethane	101	1.590	1.589	(0.382)	513802	150.000	150	
11	1,1-Dichloroethene	96	1.595	1.594	(0.383)	425923	150.000	145	
12	Acetone	43	1.606	1.605	(0.386)	438198	750.000	710	
13	Iodomethane	142	1.680	1.680	(0.404)	1087299	300.000	350	
14	Carbon Disulfide	76	1.729	1.728	(0.415)	1315658	150.000	136	
15	Methyl Acetate	43	1.771	1.776	(0.425)	251362	150.000	152	
16	allyl chloride	41	1.787	1.787	(0.429)	1763687	300.000	307	
17	Acetonitrile	39	1.787	1.787	(0.429)	1169993	150.000	148	
18	Methylene Chloride	84	1.862	1.867	(0.447)	345911	150.000	138	
19	Acrylonitrile	53	1.996	2.000	(0.479)	376182	600.000	639	
20	Methyl-tert-butyl ether	73	2.028	2.027	(0.487)	927335	150.000	162	
21	tert-Butyl Alcohol	59	1.910	1.910	(0.459)	41489	300.000	315(Q)	
22	1,2-Dichloroethene (trans)	96	2.038	2.038	(0.490)	403029	150.000	150	
23	n-Hexane	57	2.220	2.219	(0.533)	764802	150.000	133	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.332	2.331	(0.560)	3171365	600.000	738	
	25 1,1-Dichloroethane	63	2.337	2.342	(0.561)	766737	150.000	159	
	26 Chloroprene	53	2.396	2.396	(0.575)	679016	150.000	153	
	27 2-Butanone	43	2.797	2.796	(0.672)	678985	750.000	738	
	28 1,2-Dichloroethene (cis)	96	2.813	2.818	(0.676)	414831	150.000	155	
	29 2,2-Dichloropropane	77	2.818	2.823	(0.677)	509219	150.000	171	
	30 Propionitrile	54	2.861	2.866	(0.687)	33178	150.000	162(Q)	
	31 Methacrylonitrile	41	3.005	3.004	(0.722)	180160	150.000	142	
	32 Bromochloromethane	49	3.048	3.053	(0.732)	282317	150.000	147	
	33 Tetrahydrofuran	42	3.069	3.069	(0.737)	88194	150.000	154	
	34 Chloroform	83	3.155	3.159	(0.758)	632759	150.000	149	
$	35 Dibromofluoromethane (S)	113	3.331	3.336	(0.800)	110875	50.0000	50.4	
	36 1,1,1-Trichloroethane	97	3.331	3.330	(0.800)	580286	150.000	158	
	37 Cyclohexane	56	3.416	3.421	(0.820)	728557	150.000	145	
	38 n-Butyl chloride	56	3.480	3.485	(0.836)	896583	150.000	158	
	39 Carbon Tetrachloride	117	3.518	3.517	(0.845)	499547	150.000	162	
	40 1,1-Dichloropropene	75	3.523	3.523	(0.846)	553926	150.000	154	
	41 Benzene	78	3.763	3.768	(0.904)	1522781	150.000	150	
	42 1,2-Dichloroethane	62	3.849	3.854	(0.924)	413902	150.000	149	
	43 2,2,4-Trimethylpentane	57	3.945	3.944	(0.947)	1805276	150.000	161	
	44 Isobutyl alcohol	43	3.940	3.950	(0.946)	359679	150.000	153	
*	45 Fluorobenzene (IS)	96	4.164	4.169	(1.000)	488033	50.0000		
	46 Trichloroethene	95	4.618	4.617	(1.109)	361797	150.000	146	
	47 Methylcyclohexane	55	4.885	4.885	(1.173)	558972	150.000	154	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	356444	150.000	154	
	49 Dibromomethane	93	5.019	5.018	(1.205)	162302	150.000	154	
	50 1,4-Dioxane	88	5.029	5.029	(1.208)	48298	3000.00	3360	
	51 Methyl methacrylate	69	5.040	5.039	(1.210)	183002	150.000	177	
	52 Bromodichloromethane	83	5.248	5.248	(1.260)	416724	150.000	154	
	53 2-Chloroethyl vinyl ether	63	5.595	5.600	(0.762)	266634	300.000	316	
	54 cis-1,3-Dichloropropene	75	5.745	5.744	(0.782)	489936	150.000	162	
	55 4-Methyl-2-Pentanone	43	5.921	5.921	(0.806)	1261464	750.000	790	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	407266	50.0000	48.0	
	57 Toluene	91	6.092	6.092	(0.830)	1470868	150.000	135	
	58 trans-1,3-Dichloropropene	75	6.375	6.380	(0.868)	371102	150.000	172	
	59 Ethyl Methacrylate	69	6.461	6.465	(0.880)	318499	150.000	171	
	60 1,1,2-Trichloroethane	83	6.562	6.562	(0.894)	181717	150.000	141	
	61 Tetrachloroethene	166	6.616	6.615	(0.901)	329079	150.000	152	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	399448	150.000	148	
	63 2-Hexanone	43	6.776	6.775	(0.923)	772171	750.000	796	
	64 Dibromochloromethane	129	6.888	6.887	(0.938)	232731	150.000	159	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	194734	150.000	154	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	246958	50.0000		
	67 Chlorobenzene	112	7.363	7.368	(1.003)	736025	150.000	146	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	255222	150.000	166	
	69 Ethylbenzene	106	7.449	7.448	(1.015)	449197	150.000	158	
	70 m&p-Xylene	106	7.545	7.544	(1.028)	1084918	300.000	313	
	71 o-Xylene	106	7.807	7.806	(1.063)	487338	150.000	158	
	72 Styrene	104	7.823	7.827	(1.065)	827468	150.000	165	
	73 Bromoform	173	7.940	7.940	(0.898)	104692	150.000	160	
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	1278494	150.000	160	
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	103858	50.0000	50.9	
	76 Bromobenzene	77	8.245	8.244	(1.123)	427153	150.000	146	
	77 1,1,2,2-Tetrachloroethane	83	8.255	8.255	(0.934)	213240	150.000	140	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.277	8.276	(1.127)	59093	150.000	160	
79	1,2,3-Trichloropropane	110	8.282	8.287	(0.937)	60288	150.000	144	
80	n-Propylbenzene	91	8.314	8.308	(0.940)	1488534	150.000	145	
81	2-Chlorotoluene	91	8.362	8.362	(0.946)	793365	150.000	142	
82	1,3,5-Trimethylbenzene	105	8.421	8.420	(0.952)	957637	150.000	152	
83	4-Chlorotoluene	126	8.437	8.436	(0.954)	270486	150.000	148	
84	tert-Butylbenzene	119	8.602	8.602	(0.973)	1066206	150.000	154	
85	1,2,4-Trimethylbenzene	105	8.635	8.634	(0.976)	936570	150.000	151	
86	sec-Butylbenzene	105	8.725	8.725	(0.987)	1251709	150.000	151	
87	1,3-Dichlorobenzene	146	8.795	8.794	(0.995)	447456	150.000	144	
88	p-Isopropyltoluene	119	8.816	8.816	(0.997)	1036367	150.000	154	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.842	(1.000)	95187	50.0000		
90	1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	447791	150.000	140	
91	n-Butylbenzene	91	9.030	9.029	(1.021)	1017227	150.000	155	
92	1,2-Dichlorobenzene	146	9.046	9.045	(1.023)	413072	150.000	148	
93	1,2,4-Trichlorobenzene	180	9.858	9.862	(1.115)	266486	150.000	156	
94	1,2-Dibromo-3-chloropropane	155	9.457	9.456	(1.069)	21965	150.000	176(H)	
95	Hexachlorobutadiene	225	9.927	9.926	(1.123)	148975	150.000	151	
96	Naphthalene	128	10.002	10.001	(1.131)	601549	150.000	164	
97	1,2,3-Trichlorobenzene	180	10.114	10.113	(1.144)	246917	150.000	154	
98	2,methyl-naphthalene	142	10.632	10.632	(1.202)	403340	150.000	169	
99	1-Methylnaphthalene	142	10.744	10.749	(1.215)	341227	150.000	164	

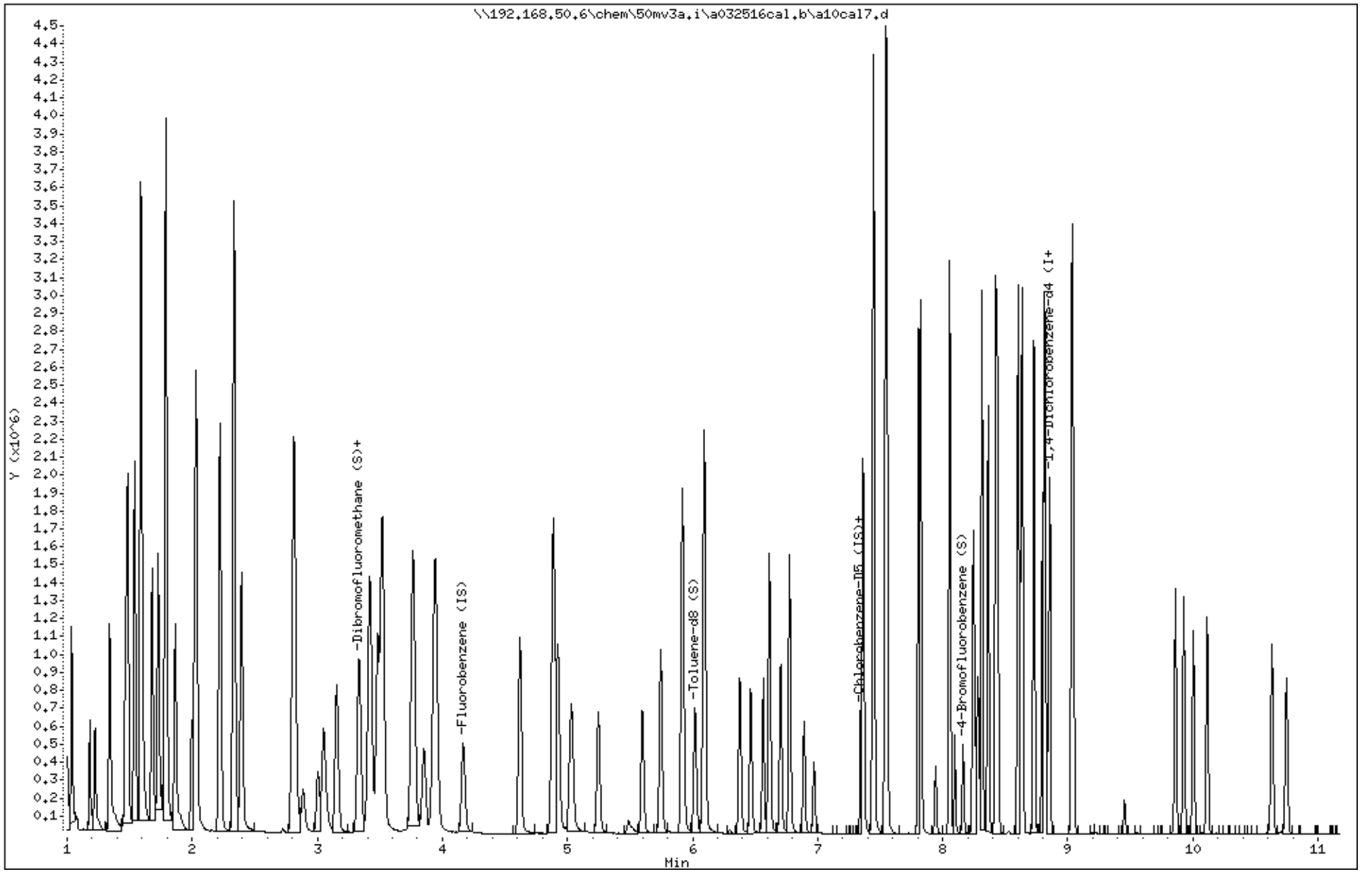
QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a10cal7.d
Date : 25-MAR-2016 18:49
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CAL7,117892:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a10cal7.d
Injection Date: 25-MAR-2016 18:49
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL7,117892:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a11cal8.d
Lab Smp Id: 8260-CAL8,117893:0
Inj Date : 25-MAR-2016 19:21
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-cal8,117893:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i   Quant Type: ISTD
Cal Date :   Cal File:
Als bottle: 23   Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.909	0.905	(0.218)	1029157	300.000	289	
2	Chloromethane	50	0.994	0.996	(0.239)	1222087	300.000	252	
3	Vinyl Chloride	62	1.037	1.039	(0.249)	1326000	300.000	276	
4	Bromomethane	94	1.176	1.183	(0.282)	481621	300.000	201	
5	Chloroethane	64	1.224	1.226	(0.294)	532914	300.000	195	
6	Trichlorofluoromethane	101	1.336	1.343	(0.321)	1555311	300.000	259	
7	Diethyl ether	74	1.464	1.466	(0.351)	570875	300.000	293	
8	1,2-dichlorotrifluoroethane	67	1.480	1.482	(0.355)	1193736	300.000	265	
9	Acrolein	56	1.539	1.536	(0.369)	2188271	6000.00	5170	
10	1,1,2trichlorotrifluoroethane	101	1.587	1.589	(0.381)	1212491	300.000	306	
11	1,1-Dichloroethene	96	1.592	1.594	(0.382)	928307	300.000	274	
12	Acetone	43	1.608	1.605	(0.386)	883148	1500.00	1240	
13	Iodomethane	142	1.678	1.680	(0.403)	2452658	600.000	682	
14	Carbon Disulfide	76	1.726	1.728	(0.414)	2933213	300.000	262	
15	Methyl Acetate	43	1.774	1.776	(0.426)	518926	300.000	272	
16	allyl chloride	41	1.790	1.787	(0.430)	3385317	600.000	510(M)	WP
17	Acetonitrile	39	1.790	1.787	(0.430)	2459411	300.000	268	
18	Methylene Chloride	84	1.865	1.867	(0.448)	800815	300.000	277	
19	Acrylonitrile	53	1.998	2.000	(0.480)	836927	1200.00	1230	
20	Methyl-tert-butyl ether	73	2.025	2.027	(0.486)	2348525	300.000	354	
21	tert-Butyl Alcohol	59	1.913	1.910	(0.459)	92757	600.000	610(QM)	WP
22	1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	1029125	300.000	331	
23	n-Hexane	57	2.223	2.219	(0.533)	1904128	300.000	286	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
24	Vinyl Acetate	43	2.335	2.331	(0.560)	7875477	1200.00	1580	
25	1,1-Dichloroethane	63	2.340	2.342	(0.562)	1923216	300.000	345	
26	Chloroprene	53	2.394	2.396	(0.574)	1697146	300.000	331	
27	2-Butanone	43	2.805	2.796	(0.673)	1517257	1500.00	1430	
28	1,2-Dichloroethene (cis)	96	2.816	2.818	(0.676)	1031989	300.000	334	
29	2,2-Dichloropropane	77	2.821	2.823	(0.677)	1379141	300.000	401	
30	Propionitrile	54	2.858	2.866	(0.686)	75603	300.000	318(Q)	
31	Methacrylonitrile	41	3.002	3.004	(0.721)	406822	300.000	278	
32	Bromochloromethane	49	3.051	3.053	(0.732)	630630	300.000	285	
33	Tetrahydrofuran	42	3.067	3.069	(0.736)	188734	300.000	285	
34	Chloroform	83	3.157	3.159	(0.758)	1535211	300.000	312	
$ 35	Dibromofluoromethane (S)	113	3.334	3.336	(0.800)	133779	50.0000	52.6	
36	1,1,1-Trichloroethane	97	3.334	3.330	(0.800)	1416937	300.000	334	
37	Cyclohexane	56	3.419	3.421	(0.821)	1771543	300.000	304	
38	n-Butyl chloride	56	3.483	3.485	(0.836)	2150987	300.000	327	
39	Carbon Tetrachloride	117	3.521	3.517	(0.845)	1264915	300.000	354	
40	1,1-Dichloropropene	75	3.526	3.523	(0.846)	1341040	300.000	322	
41	Benzene	78	3.766	3.768	(0.904)	3585156	300.000	306	
42	1,2-Dichloroethane	62	3.852	3.854	(0.924)	949393	300.000	296	
43	2,2,4-Trimethylpentane	57	3.948	3.944	(0.947)	4431783	300.000	342	
44	Isobutyl alcohol	43	3.948	3.950	(0.947)	882735	300.000	325	
* 45	Fluorobenzene (IS)	96	4.167	4.169	(1.000)	564186	50.0000		
46	Trichloroethene	95	4.621	4.617	(1.109)	851038	300.000	298	
47	Methylcyclohexane	55	4.888	4.885	(1.173)	1347783	300.000	321	
48	1,2-Dichloropropane	63	4.925	4.922	(1.182)	809614	300.000	303	
49	Dibromomethane	93	5.021	5.018	(1.205)	362464	300.000	298	
50	1,4-Dioxane	88	5.037	5.029	(1.209)	105269	6000.00	6330	
51	Methyl methacrylate	69	5.043	5.039	(1.210)	408854	300.000	342	
52	Bromodichloromethane	83	5.246	5.248	(1.259)	952328	300.000	305	
53	2-Chloroethyl vinyl ether	63	5.598	5.600	(0.762)	544345	600.000	596	
54	cis-1,3-Dichloropropene	75	5.742	5.744	(0.782)	1114124	300.000	340	
55	4-Methyl-2-Pentanone	43	5.924	5.921	(0.807)	2780841	1500.00	1610	
$ 56	Toluene-d8 (S)	98	6.020	6.017	(0.820)	457623	50.0000	49.9	
57	Toluene	91	6.095	6.092	(0.830)	3384842	300.000	288	
58	trans-1,3-Dichloropropene	75	6.378	6.380	(0.868)	842365	300.000	362	
59	Ethyl Methacrylate	69	6.463	6.465	(0.880)	707303	300.000	351	
60	1,1,2-Trichloroethane	83	6.565	6.562	(0.894)	389512	300.000	280	
61	Tetrachloroethene	166	6.618	6.615	(0.901)	796223	300.000	341	
62	1,3-Dichloropropane	76	6.704	6.706	(0.913)	843060	300.000	288	
63	2-Hexanone	43	6.779	6.775	(0.923)	1653854	1500.00	1580	
64	Dibromochloromethane	129	6.891	6.887	(0.938)	522767	300.000	330	
65	1,2-Dibromoethane	107	6.971	6.973	(0.949)	419438	300.000	307	
* 66	Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	267156	50.0000		
67	Chlorobenzene	112	7.366	7.368	(1.003)	1679142	300.000	309	
68	1,1,1,2-Tetrachloroethane	131	7.446	7.443	(1.014)	627531	300.000	378	
69	Ethylbenzene	106	7.452	7.448	(1.015)	1069147	300.000	347	
70	m&p-Xylene	106	7.548	7.544	(1.028)	2603655	600.000	693	
71	o-Xylene	106	7.809	7.806	(1.063)	1133737	300.000	341	
72	Styrene	104	7.825	7.827	(1.065)	1887888	300.000	348	
73	Bromoform	173	7.943	7.940	(0.898)	231685	300.000	320	
74	Isopropylbenzene	105	8.055	8.052	(1.097)	2912771	300.000	338	
$ 75	4-Bromofluorobenzene (S)	95	8.167	8.164	(1.112)	108736	50.0000	49.3	
76	Bromobenzene	77	8.242	8.244	(1.122)	924385	300.000	292	
77	1,1,2,2-Tetrachloroethane	83	8.258	8.255	(0.934)	446594	300.000	265	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.279	8.276	(1.127)	126012	300.000	314	
79	1,2,3-Trichloropropane	110	8.285	8.287	(0.937)	126193	300.000	272(Q)	
80	n-Propylbenzene	91	8.312	8.308	(0.940)	3359023	300.000	296	
81	2-Chlorotoluene	91	8.365	8.362	(0.946)	1781899	300.000	287	
82	1,3,5-Trimethylbenzene	105	8.424	8.420	(0.953)	2334890	300.000	334	
83	4-Chlorotoluene	126	8.434	8.436	(0.954)	639841	300.000	317	
84	tert-Butylbenzene	119	8.605	8.602	(0.973)	2583421	300.000	337	
85	1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	2275388	300.000	331	
86	sec-Butylbenzene	105	8.728	8.725	(0.987)	2982632	300.000	325	
87	1,3-Dichlorobenzene	146	8.798	8.794	(0.995)	1102453	300.000	320	
88	p-Isopropyltoluene	119	8.814	8.816	(0.997)	2628693	300.000	353	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	105542	50.0000	(Q)	
90	1,4-Dichlorobenzene	146	8.856	8.853	(1.002)	1083294	300.000	305	
91	n-Butylbenzene	91	9.033	9.029	(1.022)	2524284	300.000	347	
92	1,2-Dichlorobenzene	146	9.043	9.045	(1.023)	1034274	300.000	335	
93	1,2,4-Trichlorobenzene	180	9.860	9.862	(1.115)	649404	300.000	343	
94	1,2-Dibromo-3-chloropropane	155	9.454	9.456	(1.069)	49919	300.000	361	
95	Hexachlorobutadiene	225	9.925	9.926	(1.123)	387828	300.000	355	
96	Naphthalene	128	9.999	10.001	(1.131)	1421906	300.000	349	
97	1,2,3-Trichlorobenzene	180	10.117	10.113	(1.144)	582217	300.000	329	
98	2,methyl-naphthalene	142	10.630	10.632	(1.202)	931732	300.000	353	
99	1-Methylnaphthalene	142	10.747	10.749	(1.216)	773061	300.000	335	

QC Flag Legend

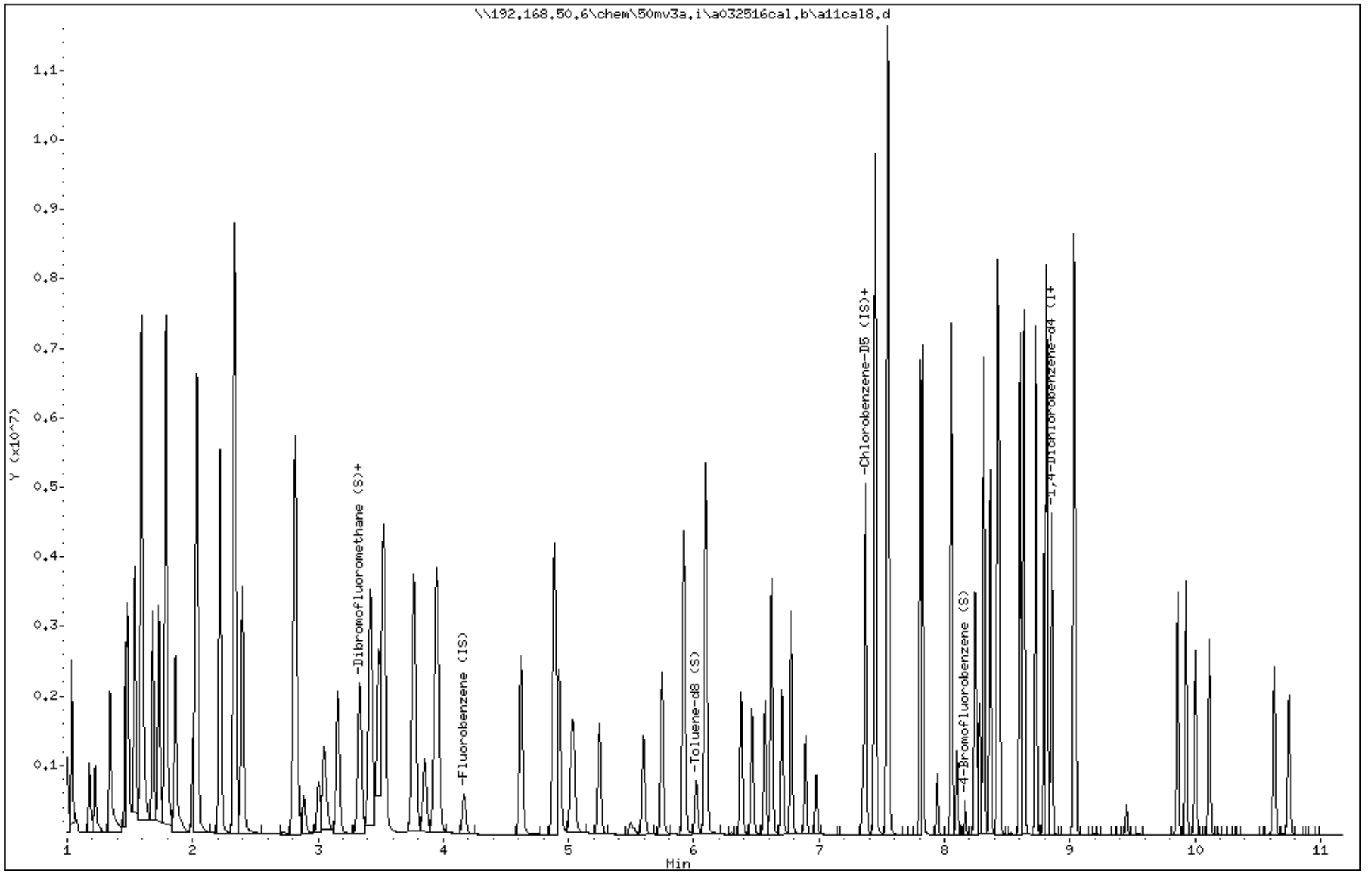
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.

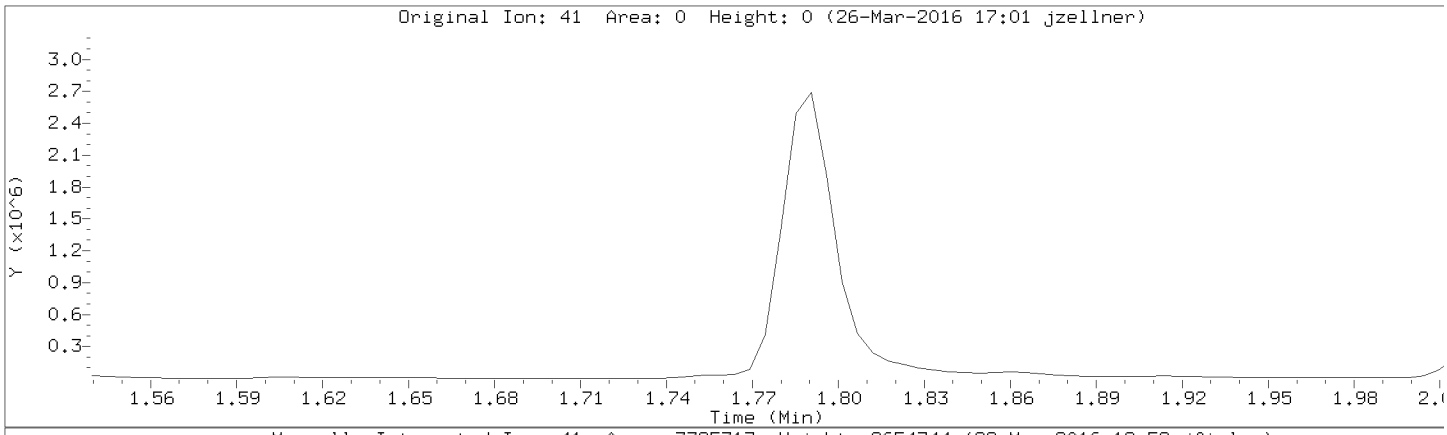
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a11cal8.d
Date : 25-MAR-2016 19:21
Client ID:
Sample Info: 8260-CAL8,117893:0
Purge Volume: 5.0
Column phase: DB-624

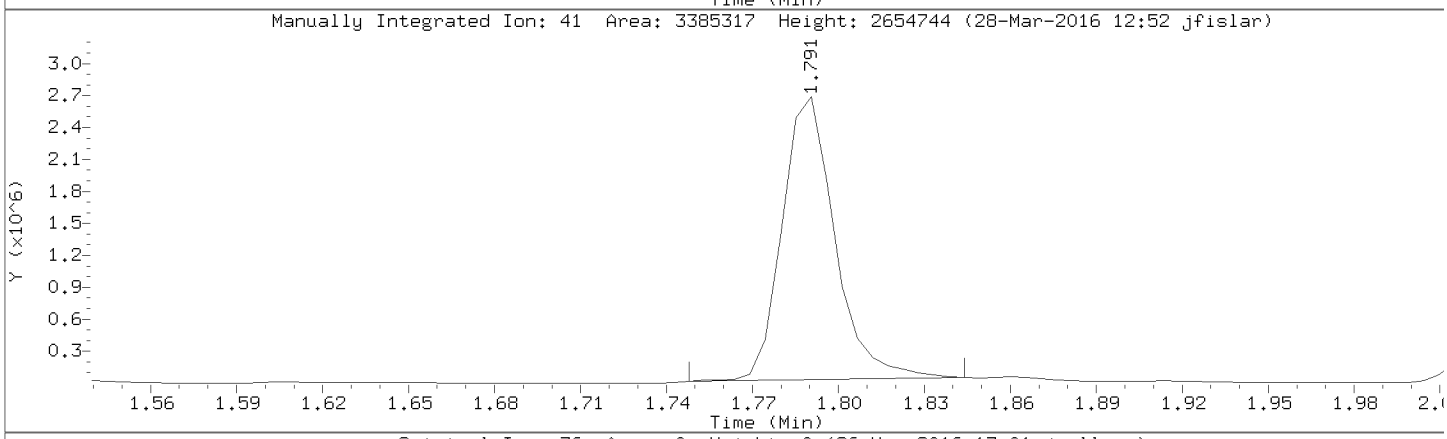
Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18

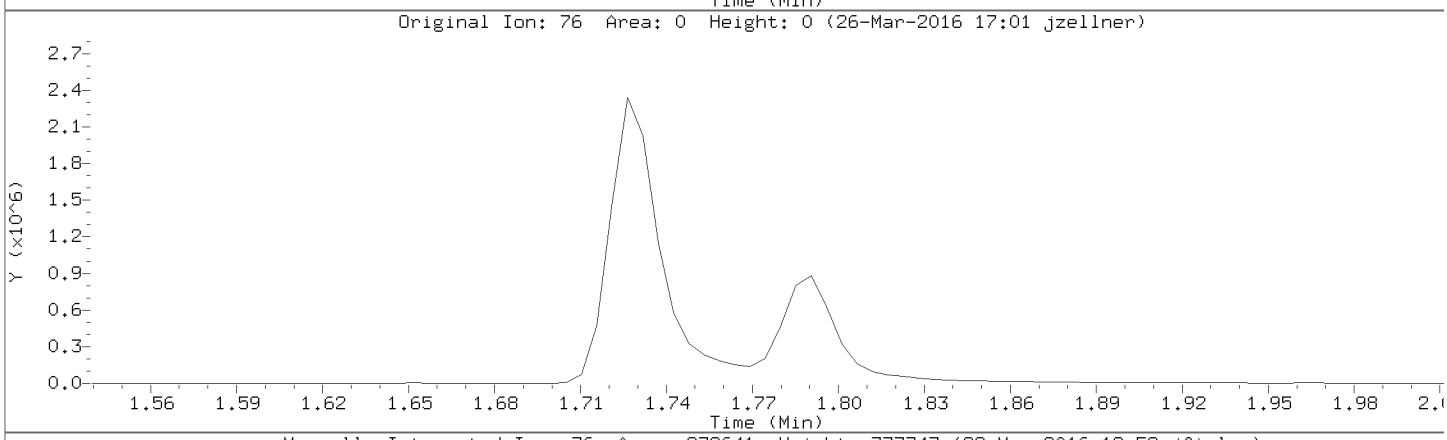


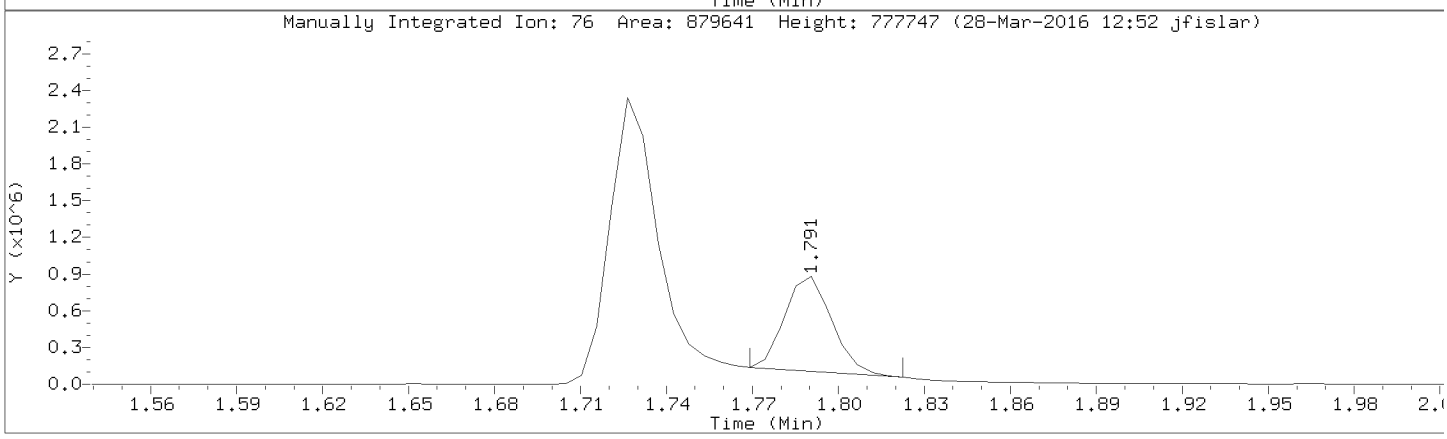
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a11cal8.d
Injection Date: 25-MAR-2016 19:21
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL8,117893:0

Compound: allyl chloride Review Code: WP
CAS Number: 107-05-1



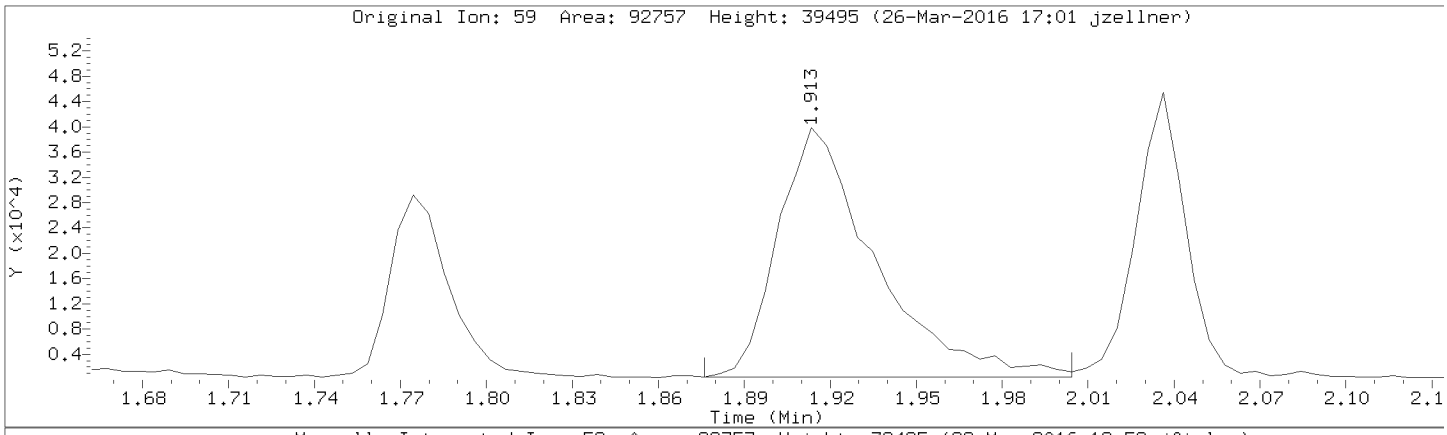


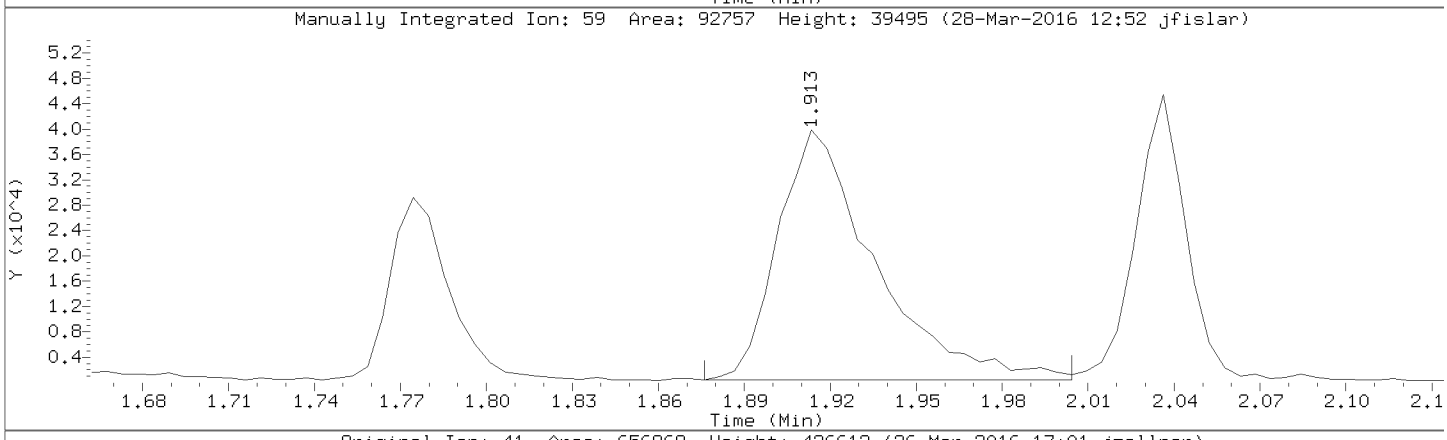


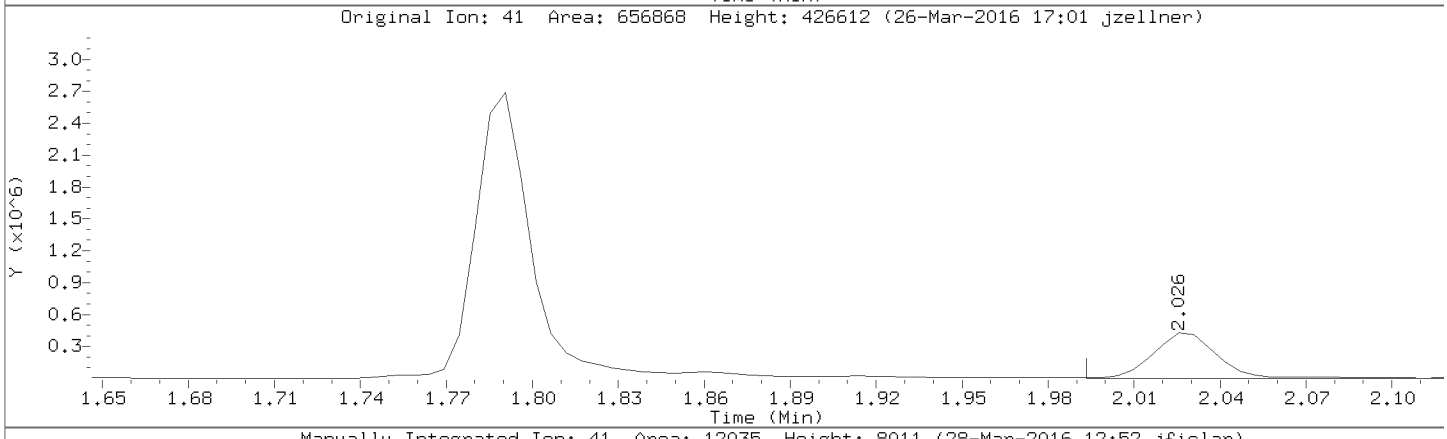


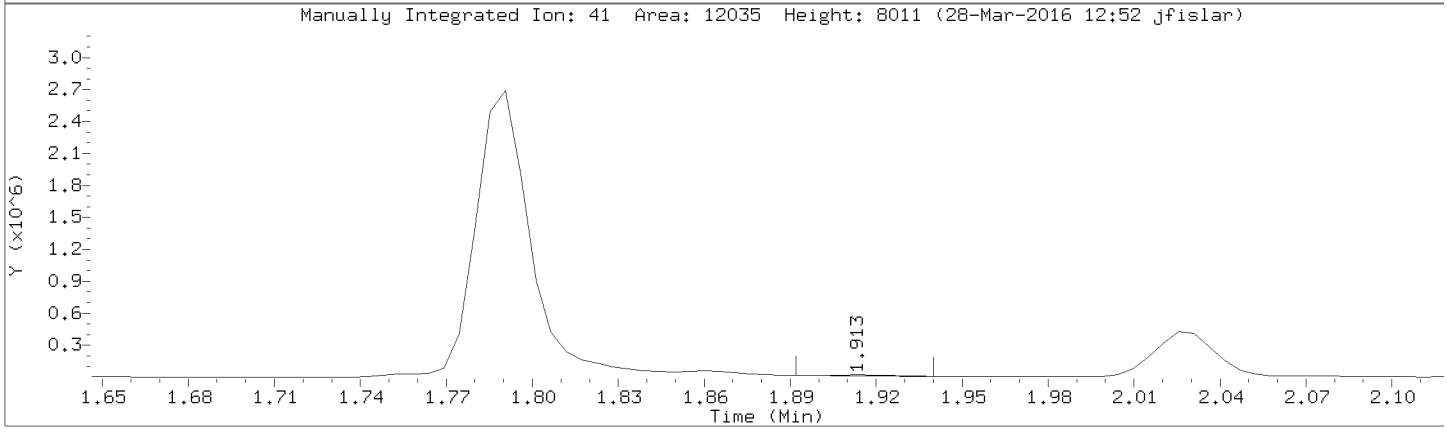
Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a11cal8.d
Injection Date: 25-MAR-2016 19:21
Instrument: 50mv3a.i
Lab Sample ID: 8260-CAL8,117893:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b04cal1.d
Lab Smp Id: 8260-CAL1,117886:0
Inj Date : 25-MAR-2016 15:53
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal1,117886:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 15:53   Cal File: b04cal1.d
Als bottle: 10   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.913	0.917	(0.219)	3046	1.00000	1.12(T)	
2	Chloromethane	50	0.999	0.997	(0.240)	8099	1.00000	1.94	
3	Vinyl Chloride	62	1.042	1.045	(0.250)	3748	1.00000	1.04	
4	Bromomethane	94	1.186	1.189	(0.284)	2091	1.00000	1.20	
6	Trichlorofluoromethane	101	1.351	1.350	(0.324)	4149	1.00000	1.00	
7	Diethyl ether	74	1.474	1.472	(0.353)	1149	1.00000	0.944(Q)	
8	1,2-dichlorotrifluoroethane	67	1.490	1.488	(0.357)	3360	1.00000	1.10(M)	WP
9	Acrolein	56	1.549	1.542	(0.371)	6380	20.0000	22.0	
10	1,1,2trichlorotrifluoroethane	101	1.597	1.601	(0.383)	2355	1.00000	0.889	
11	1,1-Dichloroethene	96	1.602	1.601	(0.384)	2324	1.00000	1.03	
12	Acetone	43	1.613	1.611	(0.387)	3983	5.00000	7.90	
13	Iodomethane	142	1.688	1.686	(0.405)	3139	2.00000	1.25	
16	allyl chloride	41	1.795	1.798	(0.430)	6854	2.00000	1.81	
17	Acetonitrile	39	1.800	1.798	(0.432)	5053	1.00000	0.959(Q)	
18	Methylene Chloride	84	1.869	1.873	(0.448)	3535	1.00000	1.77	
20	Acrylonitrile	53	2.008	2.006	(0.481)	1915	4.00000	3.98	
21	Methyl-tert-butyl ether	73	2.035	2.033	(0.488)	3430	1.00000	0.848(Q)	
22	1,2-Dichloroethene (trans)	96	2.051	2.044	(0.492)	1894	1.00000	0.945	
23	n-Hexane	57	2.227	2.231	(0.534)	8026	1.00000	1.92	
24	Vinyl Acetate	43	2.345	2.338	(0.562)	8563	4.00000	2.64	
28	1,2-Dichloroethene (cis)	96	2.820	2.824	(0.676)	1718	1.00000	0.864(Q)	
34	Chloroform	83	3.173	3.165	(0.761)	3283	1.00000	1.02	
$ 35	Dibromofluoromethane (S)	113	3.344	3.342	(0.802)	83456	50.0000	49.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
36	1,1,1-Trichloroethane	97	3.344	3.342	(0.802)	2707	1.00000	0.959	
37	Cyclohexane	56	3.424	3.427	(0.821)	3800	1.00000	1.02	
40	Benzene	78	3.776	3.774	(0.905)	7035	1.00000	0.920(M)	NI
43	2,2,4-Trimethylpentane	57	3.958	3.951	(0.949)	6879	1.00000	0.821	
* 44	Fluorobenzene (IS)	96	4.171	4.175	(1.000)	368358	50.0000		
$ 55	Toluene-d8 (S)	98	6.019	6.023	(0.820)	318665	50.0000	51.1	
56	Toluene	91	6.100	6.092	(0.831)	10618	1.00000	1.31	
63	Dibromochloromethane	129	6.895	6.888	(0.939)	780	1.00000	0.752	
* 65	Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	192992	50.0000		
66	Chlorobenzene	112	7.371	7.369	(1.004)	3827	1.00000	0.962	
67	1,1,1,2-Tetrachloroethane	131	7.451	7.444	(1.015)	1039	1.00000	0.882(Q)	
68	Ethylbenzene	106	7.451	7.449	(1.015)	2001	1.00000	0.864	
69	m&p-Xylene	106	7.552	7.550	(1.028)	4515	2.00000	1.61	
70	o-Xylene	106	7.809	7.807	(1.063)	2362	1.00000	0.930(QM)	NI
71	Styrene	104	7.825	7.823	(1.065)	3757	1.00000	0.883	
73	Isopropylbenzene	105	8.054	8.053	(1.097)	5524	1.00000	0.814	
$ 74	4-Bromofluorobenzene (S)	95	8.167	8.165	(1.112)	85082	50.0000	50.2	
75	Bromobenzene	77	8.247	8.245	(1.123)	2962	1.00000	1.17	
79	n-Propylbenzene	91	8.316	8.314	(0.941)	7299	1.00000	0.880	
80	2-Chlorotoluene	91	8.364	8.362	(0.946)	4529	1.00000	0.997	
81	1,3,5-Trimethylbenzene	105	8.423	8.421	(0.953)	4285	1.00000	0.817	
82	4-Chlorotoluene	126	8.434	8.437	(0.954)	1566	1.00000	1.02	
83	tert-Butylbenzene	119	8.604	8.603	(0.973)	5352	1.00000	0.923	
84	1,2,4-Trimethylbenzene	105	8.637	8.635	(0.977)	5216	1.00000	0.974	
85	sec-Butylbenzene	105	8.727	8.731	(0.987)	6006	1.00000	0.866	
86	1,3-Dichlorobenzene	146	8.802	8.795	(0.996)	3016	1.00000	1.13	
87	p-Isopropyltoluene	119	8.813	8.811	(0.997)	5076	1.00000	0.882	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.843	(1.000)	79374	50.0000		
89	1,4-Dichlorobenzene	146	8.856	8.854	(1.002)	2635	1.00000	0.999(Q)	
90	n-Butylbenzene	91	9.032	9.030	(1.022)	5889	1.00000	1.02	
91	1,2-Dichlorobenzene	146	9.048	9.046	(1.024)	2563	1.00000	1.06	
95	Naphthalene	128	9.998	10.002	(1.131)	3566	1.00000	1.17	
97	2,methyl-naphthalene	142	10.629	10.632	(1.202)	2407	1.00000	1.33(M)	NI
98	1-Methylnaphthalene	142	10.746	10.744	(1.216)	2012	1.00000	1.27(M)	NI

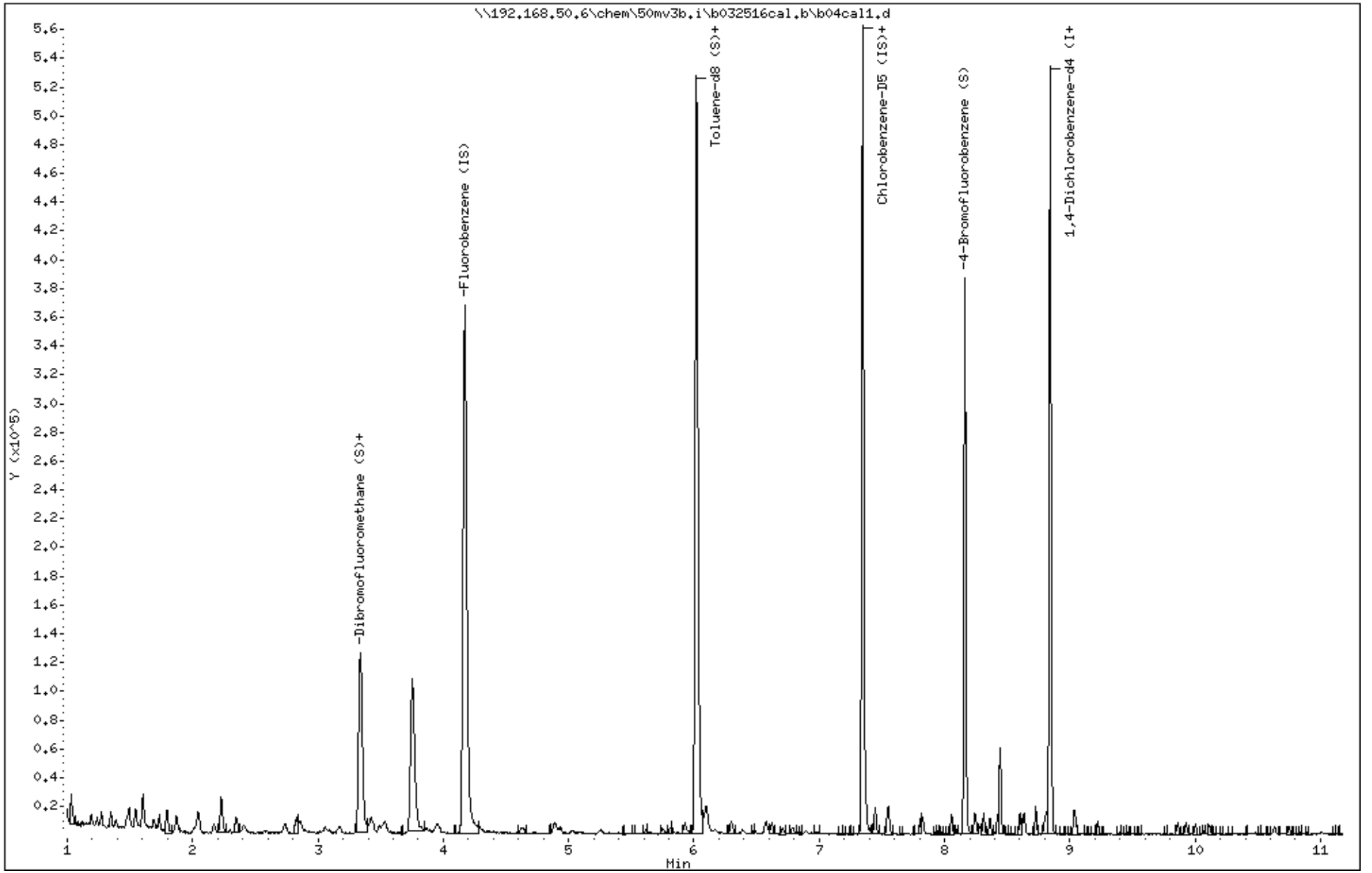
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

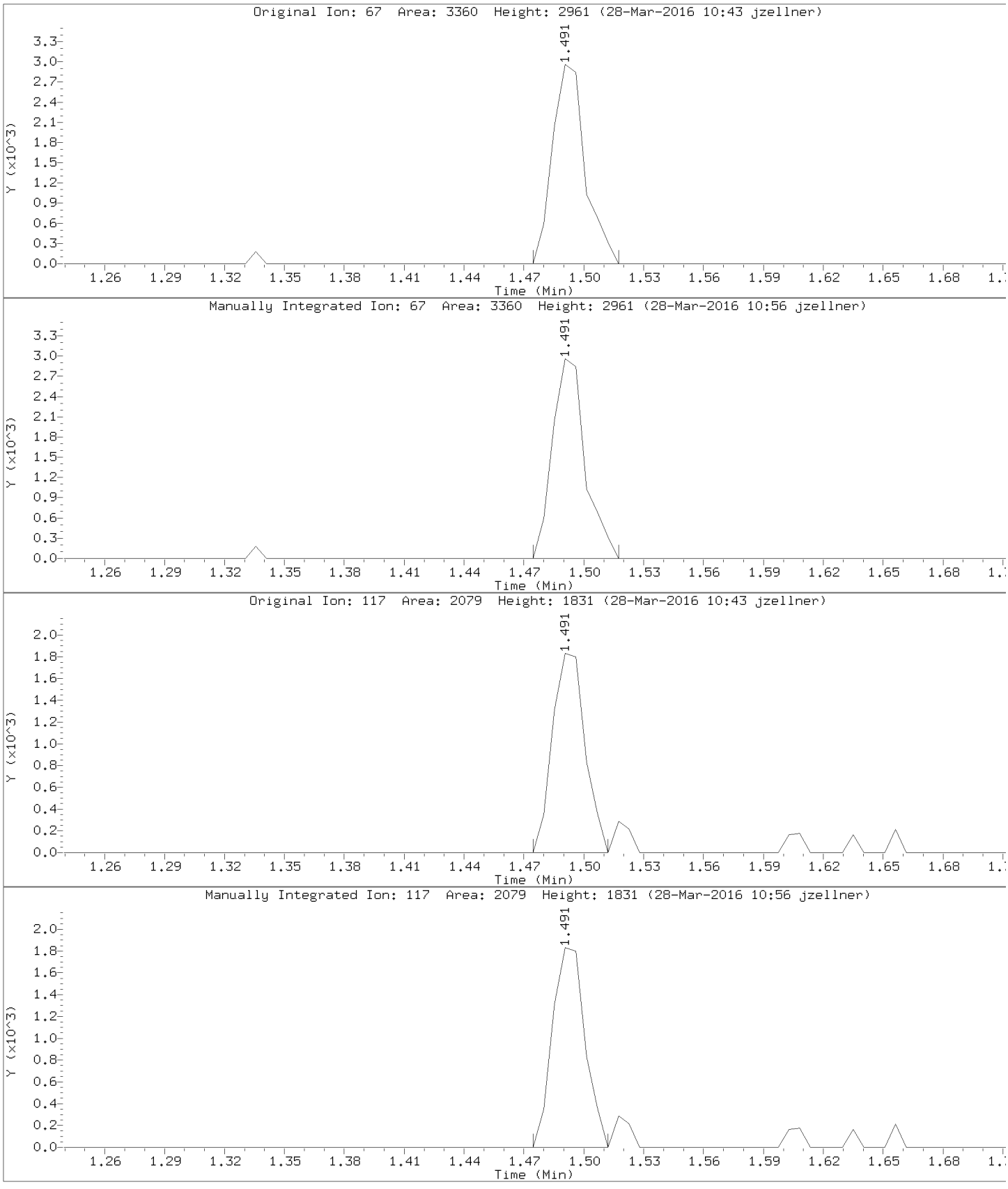
:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b04cal1.d
Date : 25-MAR-2016 15:53
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL1,117886:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

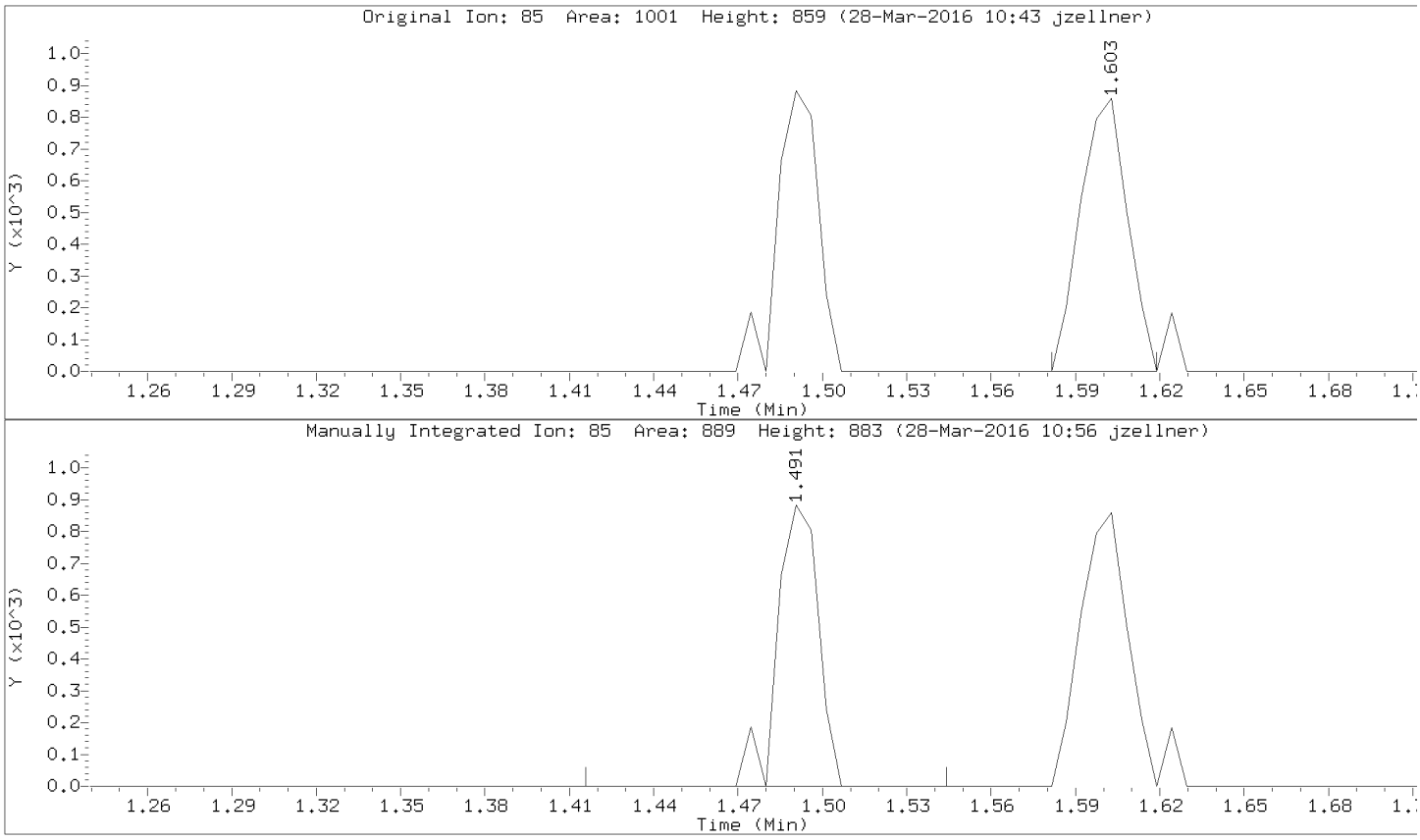


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 1,2-dichlorotrifluoroethane Review Code: WP
CAS Number: 354-23-4

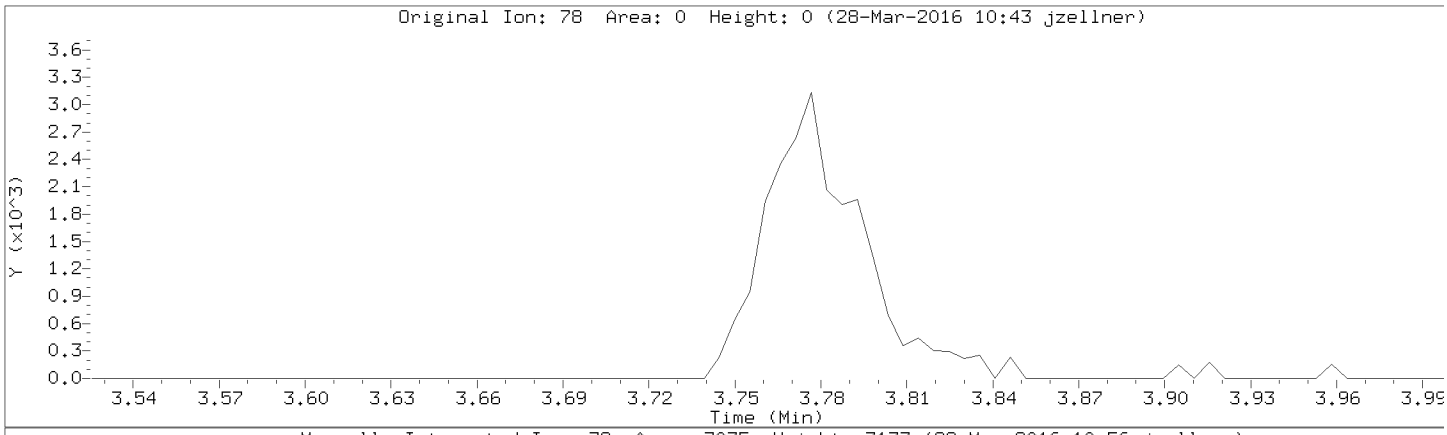


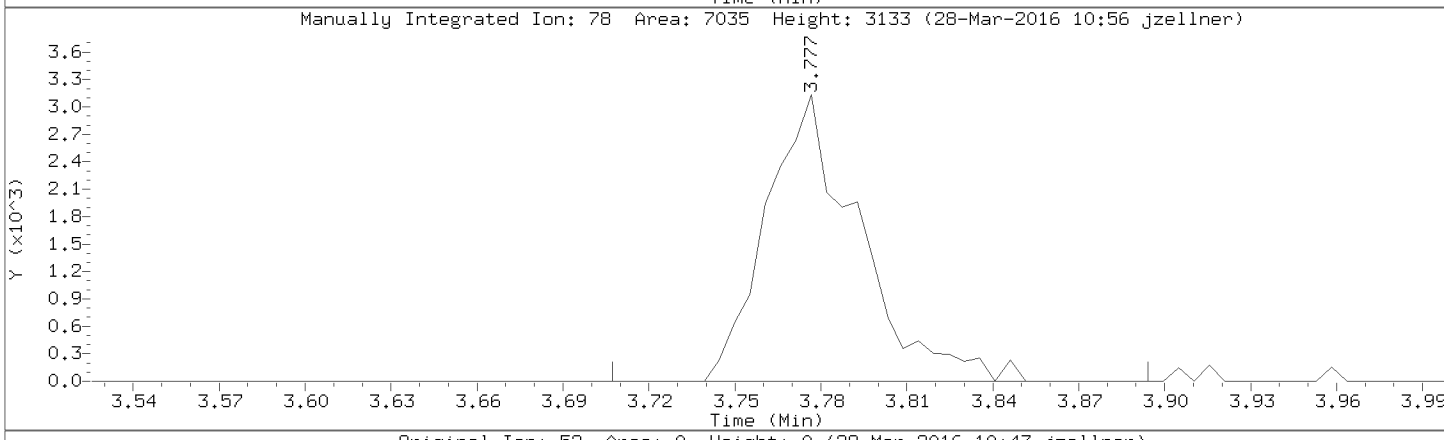
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

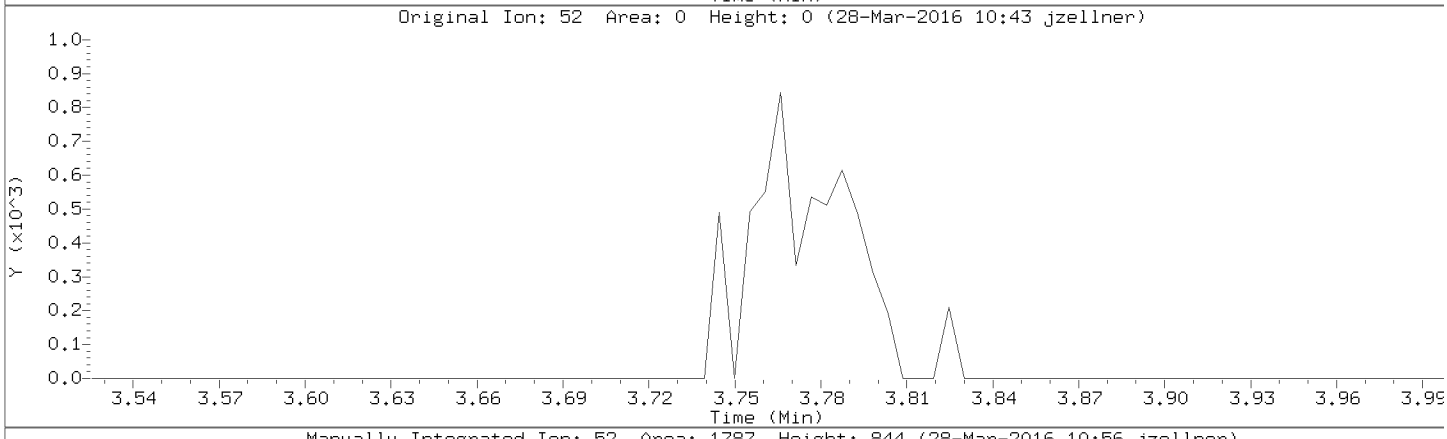


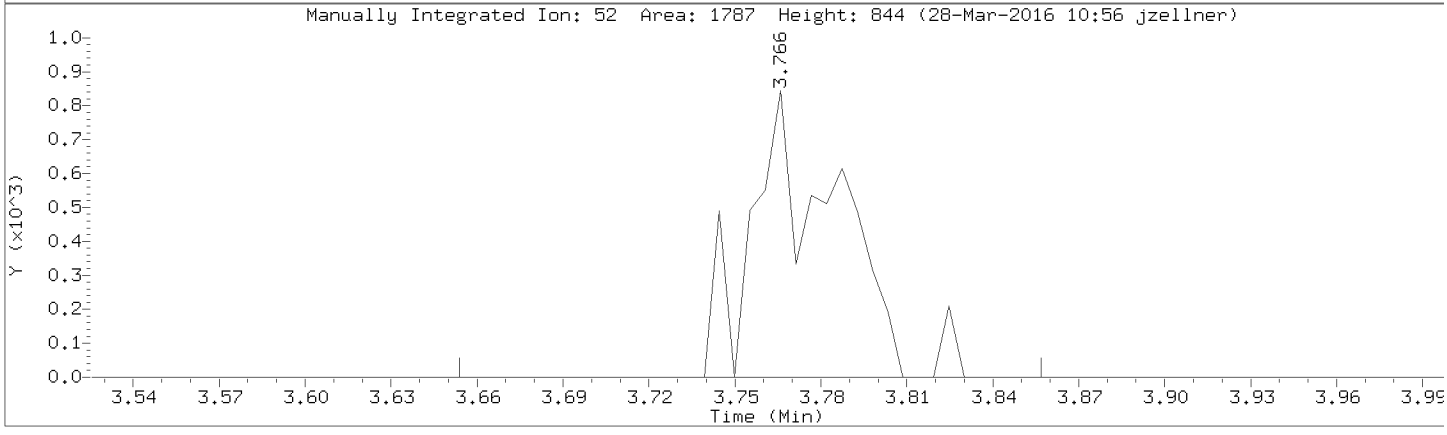
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: Benzene Review Code: NI
CAS Number: 71-43-2

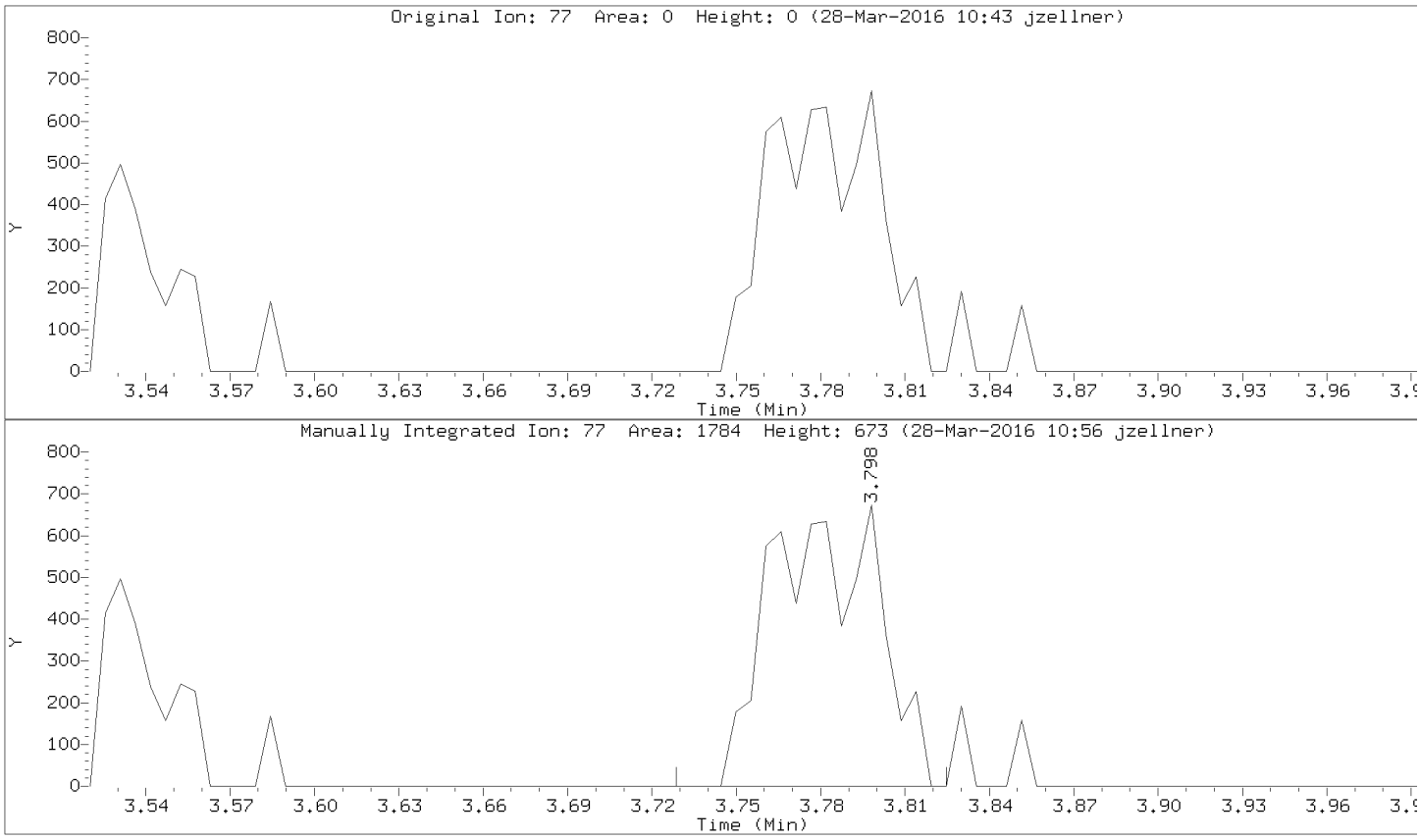






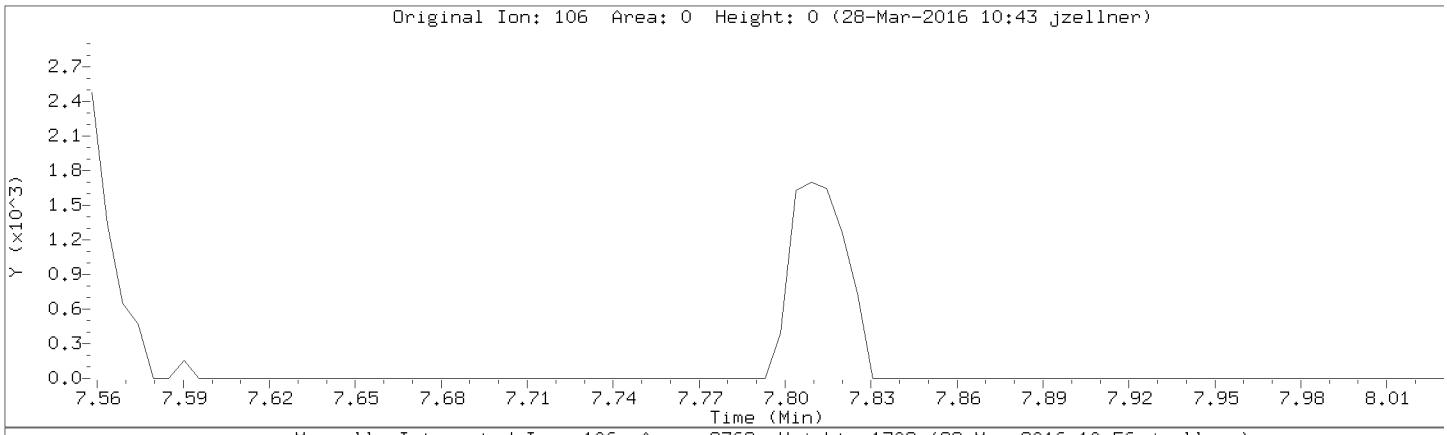


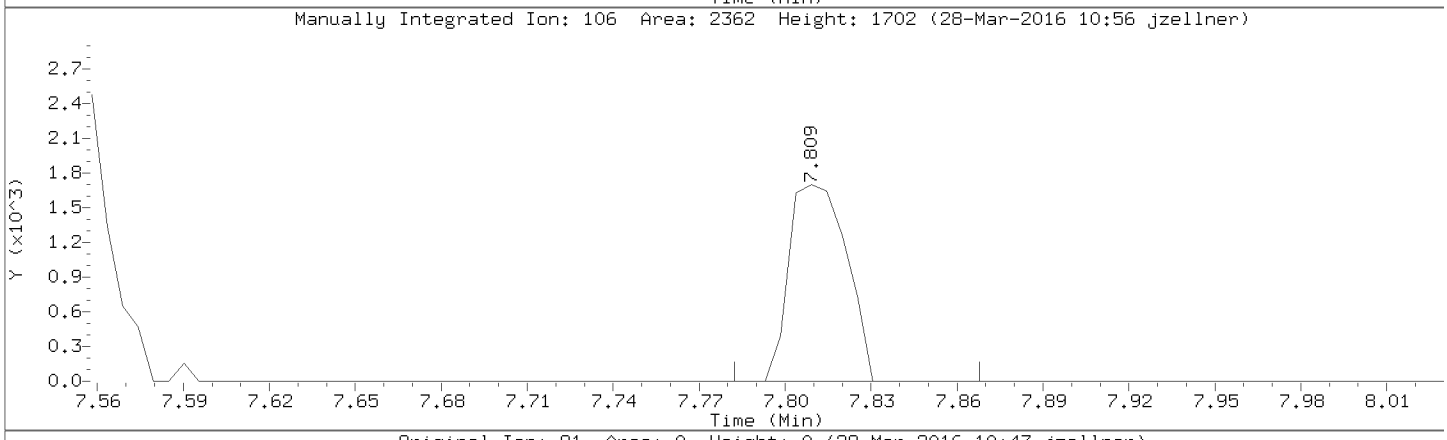
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

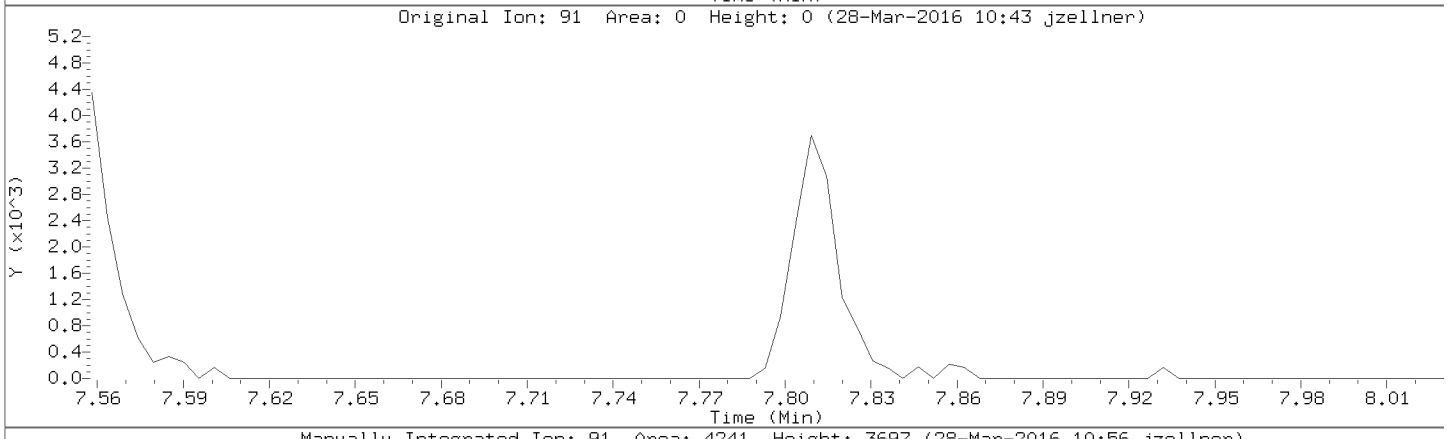


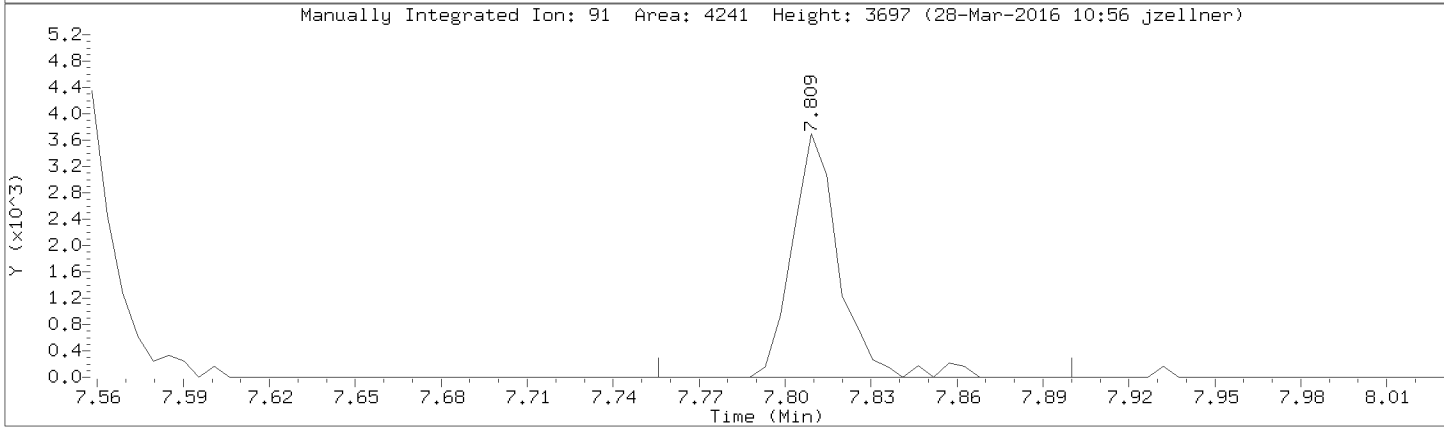
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: o-Xylene Review Code: NI
CAS Number: 95-47-6

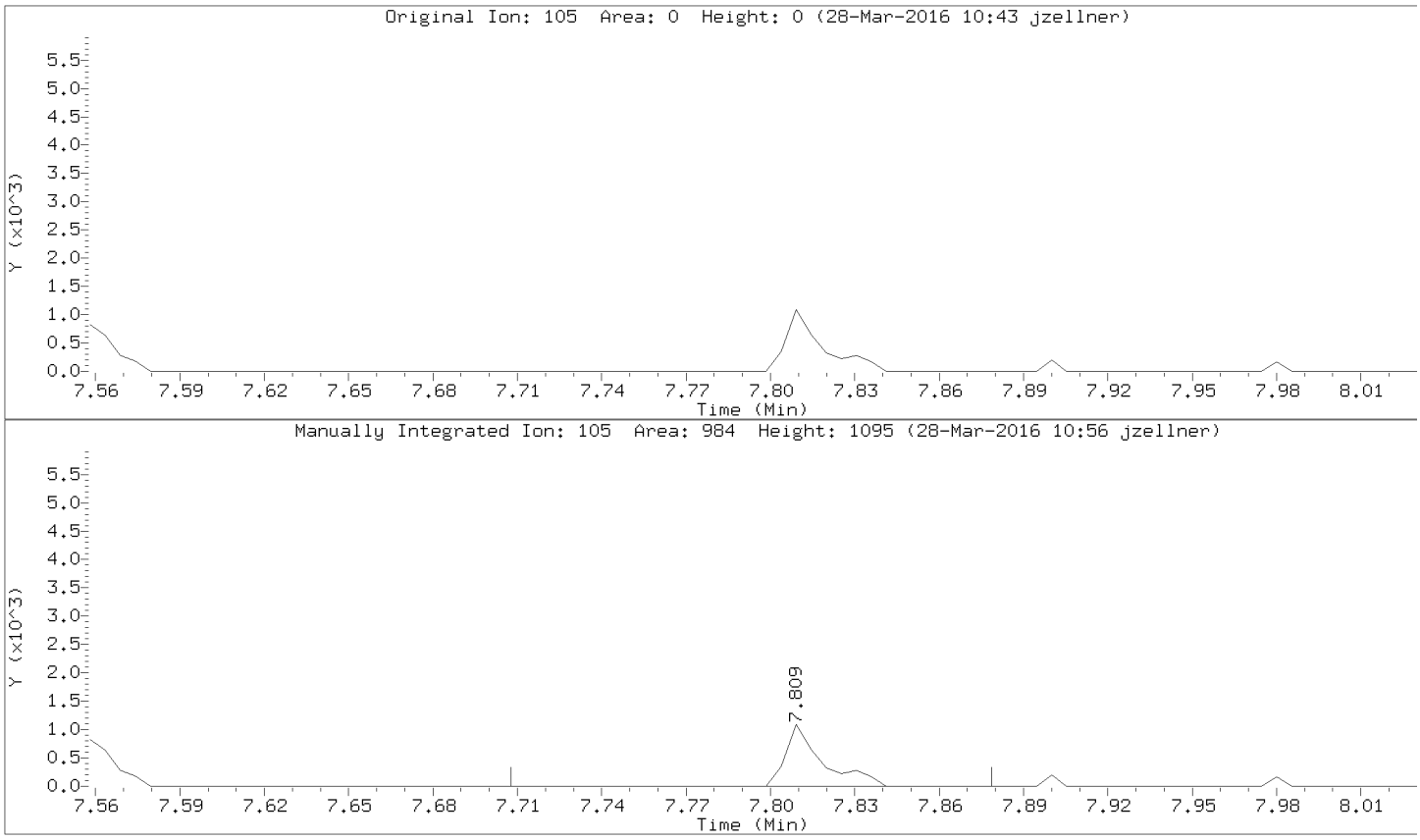






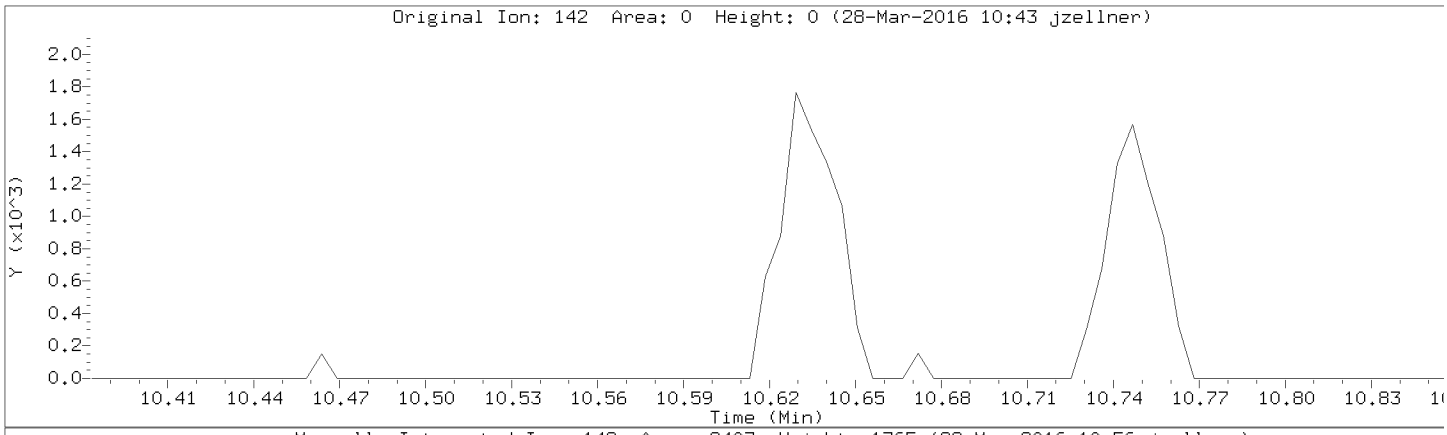


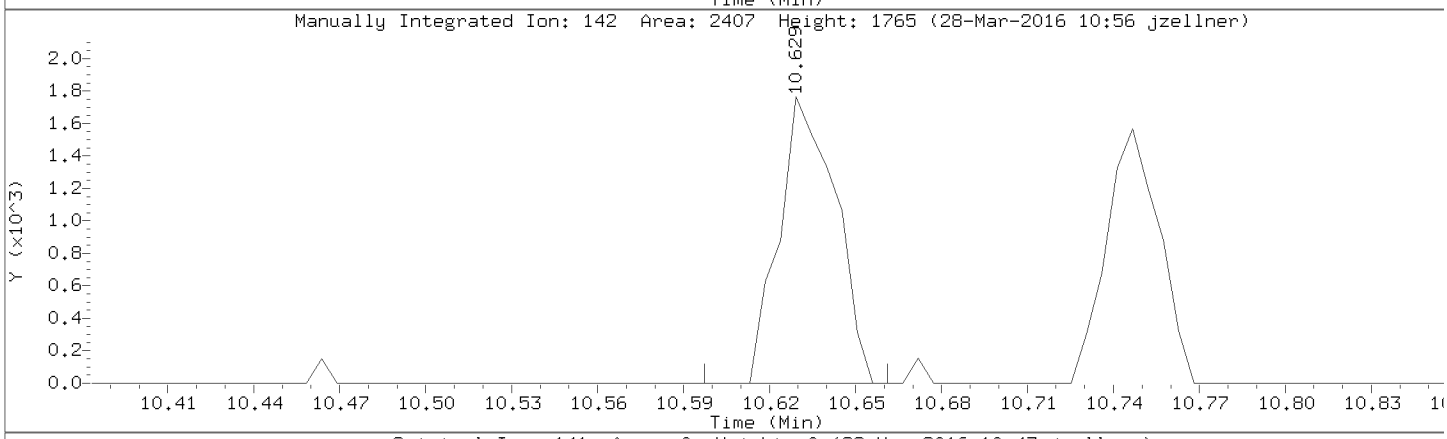
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

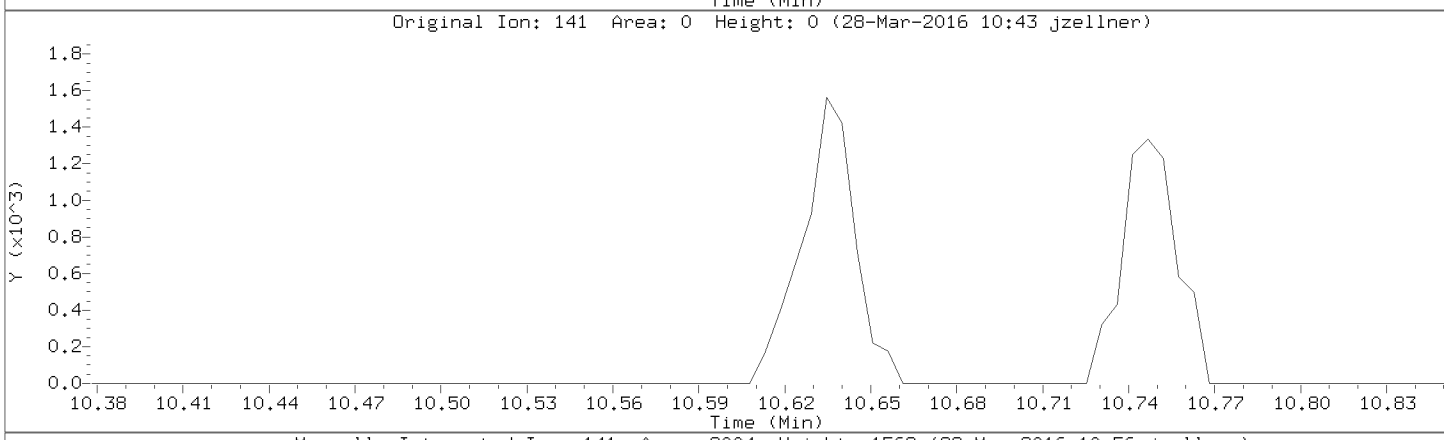


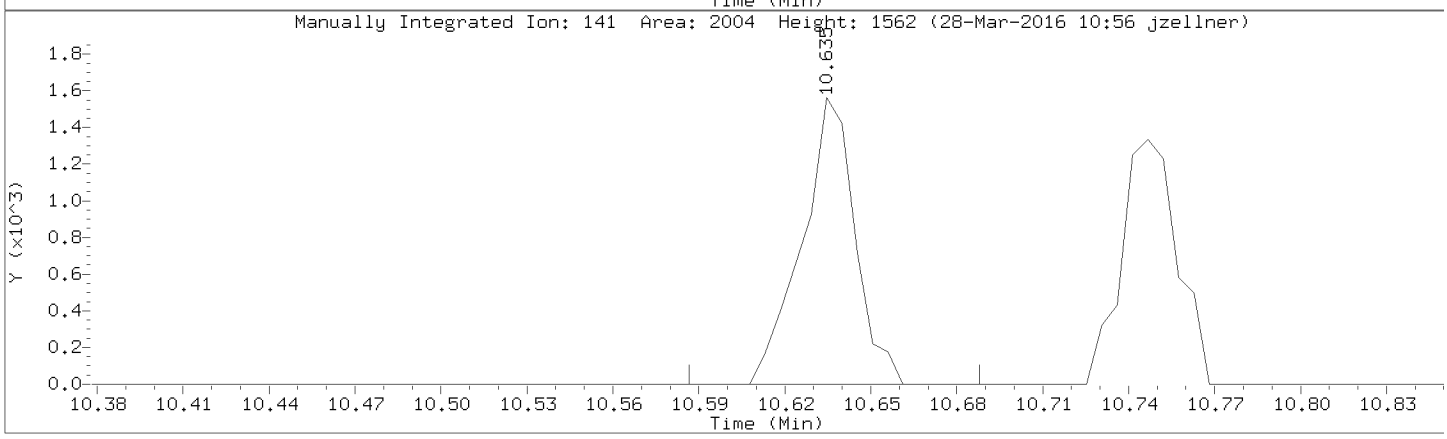
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 2,methyl-naphthalene Review Code: NI
CAS Number:

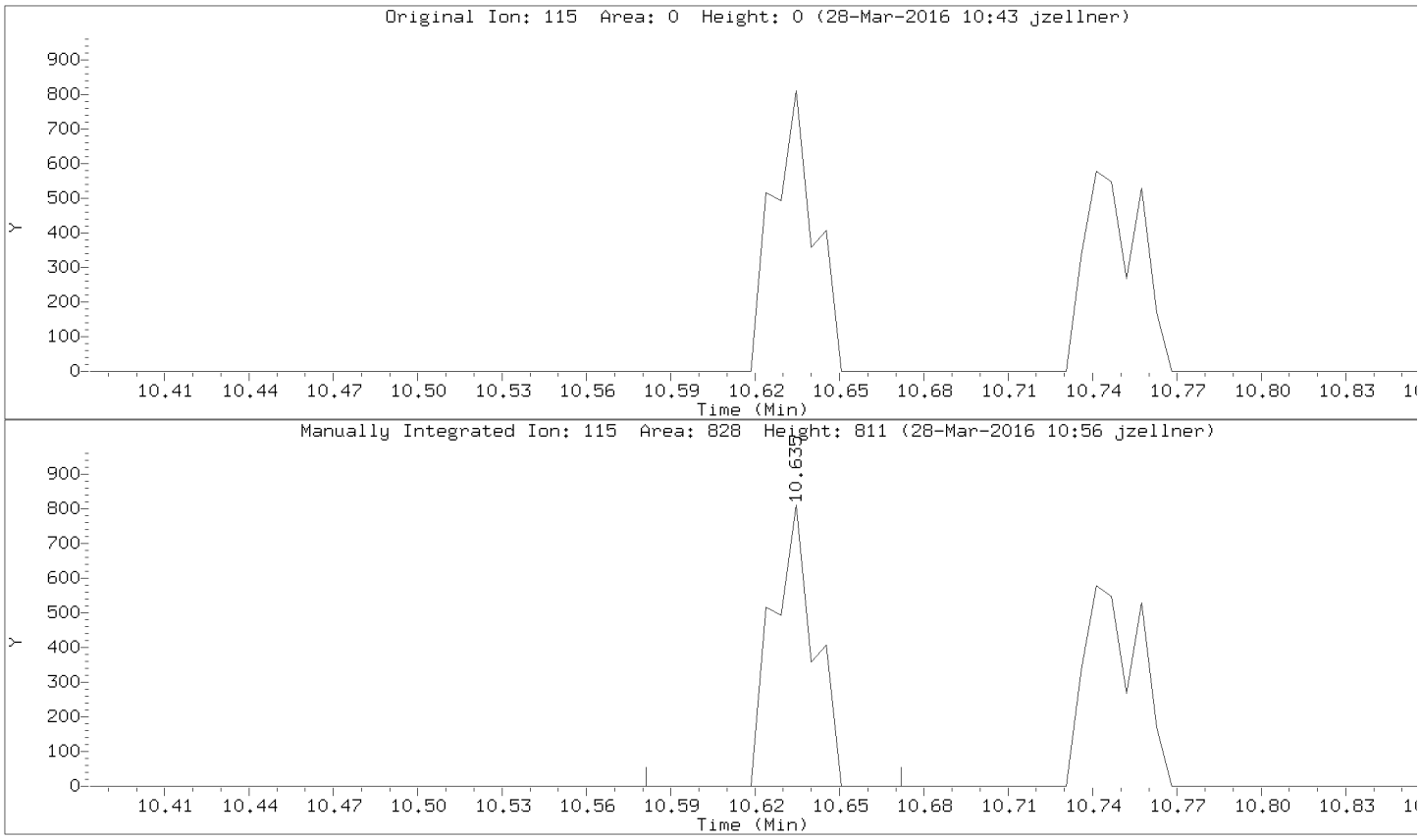






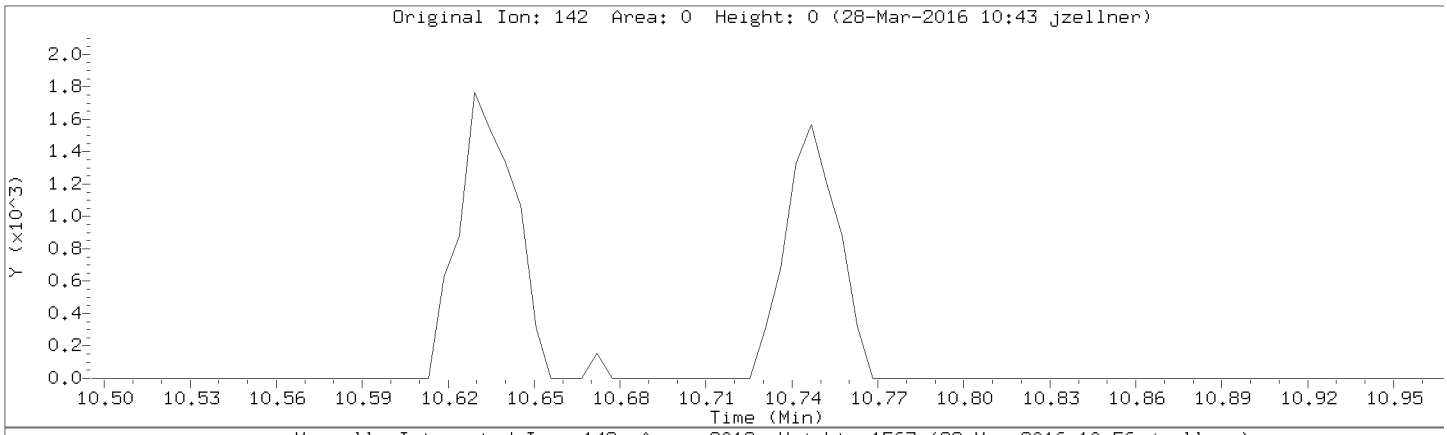


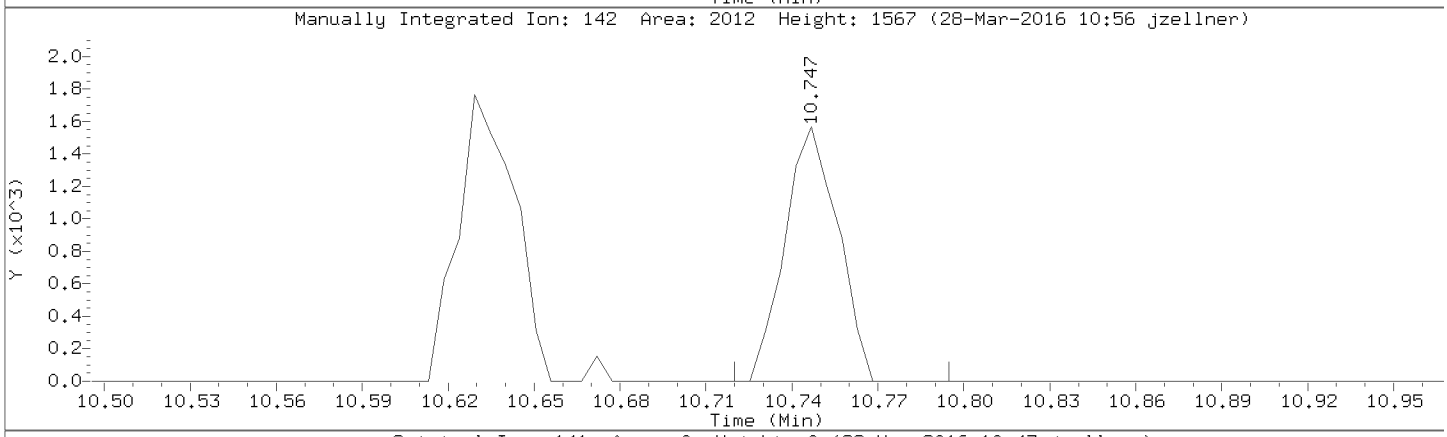
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

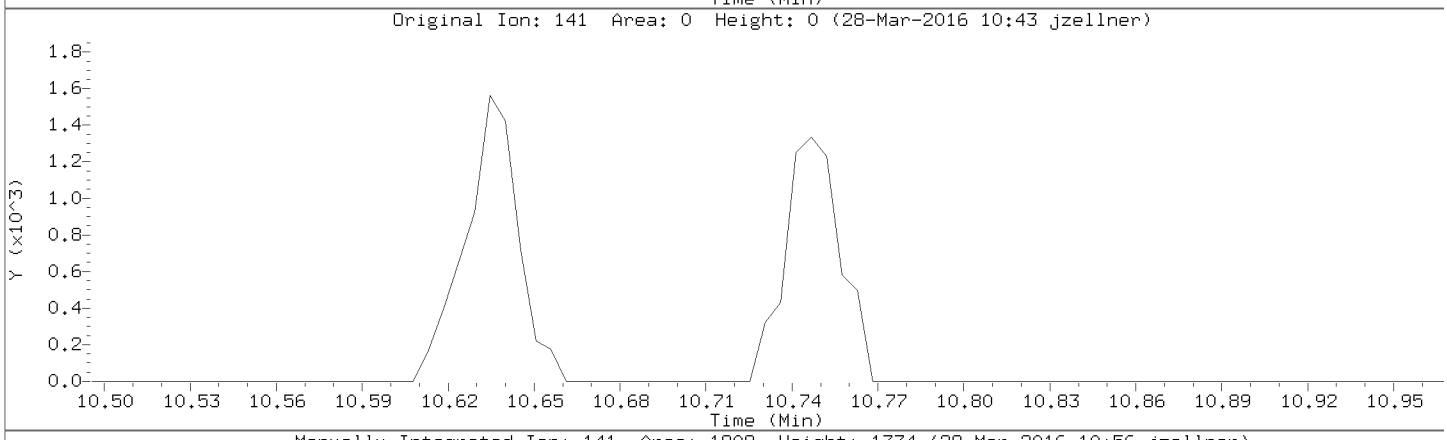


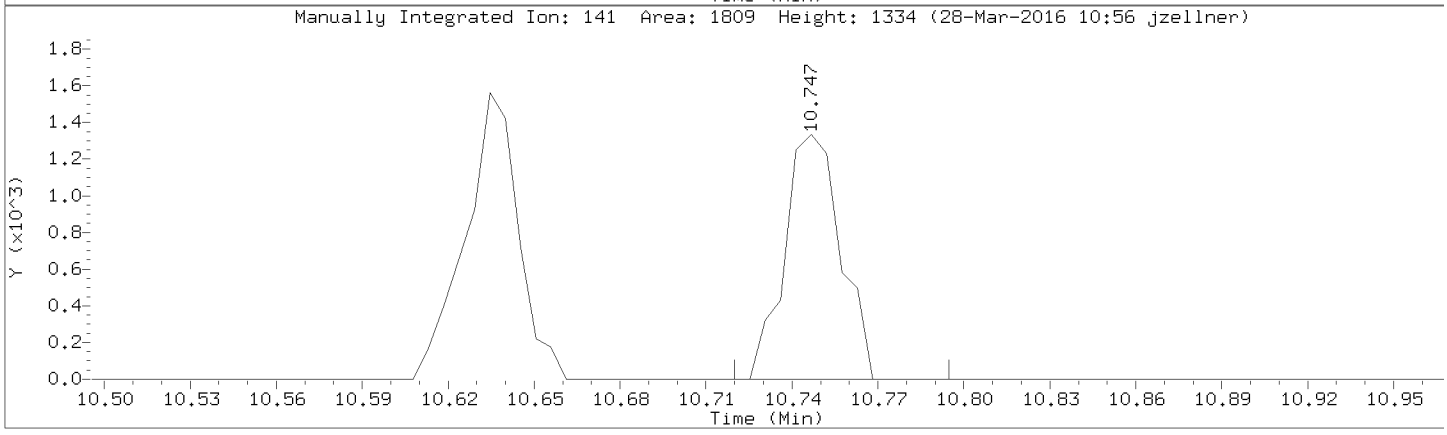
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0

Compound: 1-Methylnaphthalene Review Code: NI
CAS Number: 90-12-7

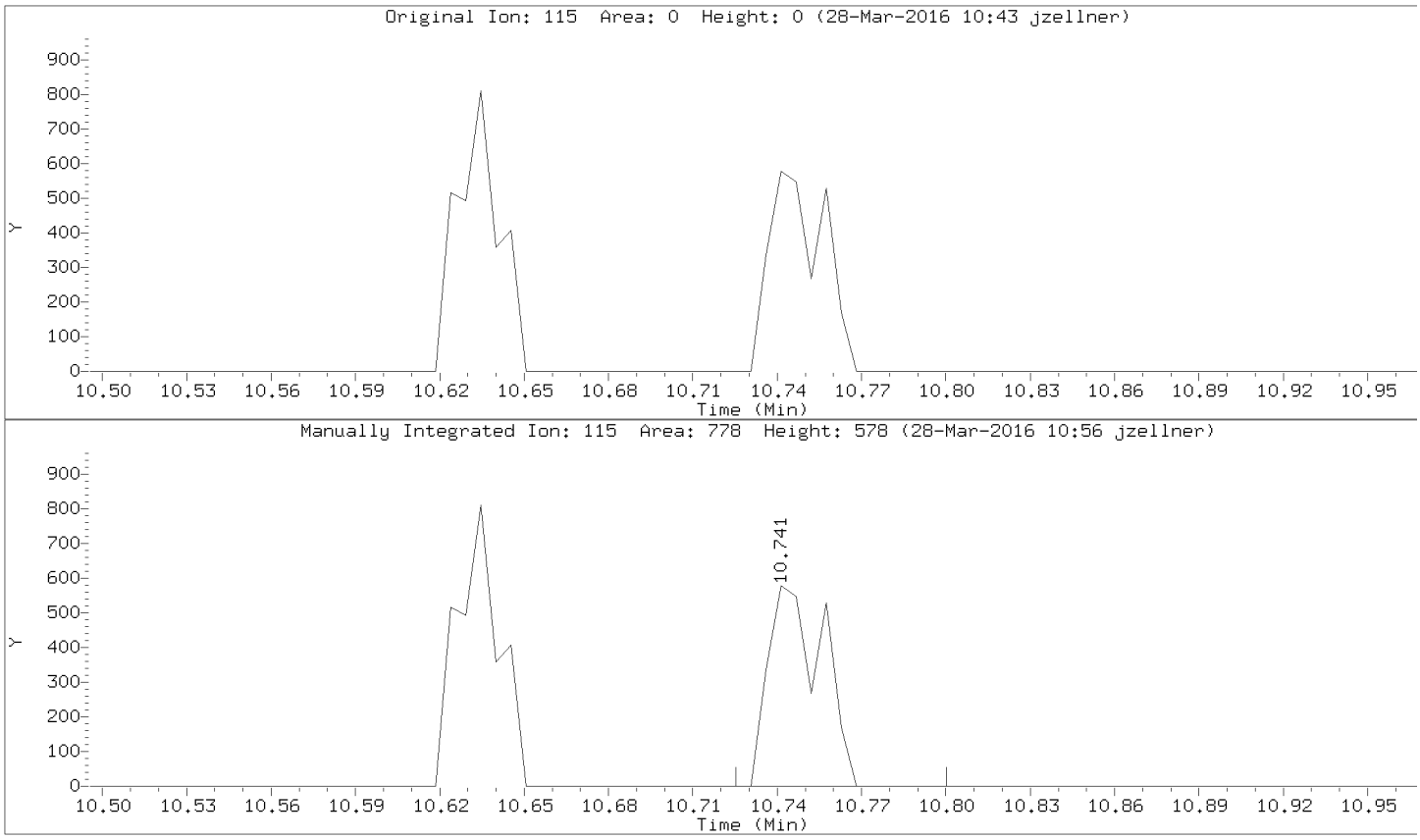








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b04cal1.d
Injection Date: 25-MAR-2016 15:53
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL1,117886:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b05cal2.d
Lab Smp Id: 8260-CAL2,117887:0
Inj Date : 25-MAR-2016 16:25
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal2,117887:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 16:25   Cal File: b05cal2.d
Als bottle: 12   Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.220)	5154	2.00000	1.87(T)	
2	Chloromethane	50	0.996	0.997	(0.239)	11425	2.00000	2.70	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	7595	2.00000	2.08	
4	Bromomethane	94	1.188	1.189	(0.285)	3860	2.00000	2.19	
5	Chloroethane	64	1.236	1.237	(0.296)	5043	2.00000	2.30	
6	Trichlorofluoromethane	101	1.349	1.350	(0.323)	8333	2.00000	1.99	
7	Diethyl ether	74	1.477	1.472	(0.354)	2231	2.00000	1.81	
8	1,2-dichlorotrifluoroethane	67	1.493	1.488	(0.358)	5347	2.00000	1.72	
9	Acrolein	56	1.546	1.542	(0.371)	12062	40.0000	41.1	
10	1,1,2trichlorotrifluoroethane	101	1.600	1.601	(0.383)	5440	2.00000	2.02	
11	1,1-Dichloroethene	96	1.605	1.601	(0.385)	4216	2.00000	1.85	
12	Acetone	43	1.610	1.611	(0.386)	6991	10.0000	13.7	
13	Iodomethane	142	1.690	1.686	(0.405)	6507	4.00000	2.56	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	4658	2.00000	1.70	
16	allyl chloride	41	1.797	1.798	(0.431)	13918	4.00000	3.63	
17	Acetonitrile	39	1.797	1.798	(0.431)	10273	2.00000	1.92	
18	Methylene Chloride	84	1.872	1.873	(0.449)	4848	2.00000	2.40	
20	Acrylonitrile	53	2.011	2.006	(0.482)	4246	8.00000	8.70	
21	Methyl-tert-butyl ether	73	2.038	2.033	(0.488)	7538	2.00000	1.84	
22	1,2-Dichloroethene (trans)	96	2.043	2.044	(0.489)	3928	2.00000	1.93	
23	n-Hexane	57	2.230	2.231	(0.534)	10929	2.00000	2.58	
24	Vinyl Acetate	43	2.342	2.338	(0.561)	18302	8.00000	5.57	
25	1,1-Dichloroethane	63	2.347	2.348	(0.562)	6673	2.00000	1.79(M)	NI

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
26	Chloroprene	53	2.411	2.402	(0.578)	6005	2.00000	1.78(M)	NI
28	1,2-Dichloroethene (cis)	96	2.828	2.824	(0.678)	3262	2.00000	1.62	
29	2,2-Dichloropropane	77	2.828	2.829	(0.678)	3840	2.00000	1.64(M)	NI
32	Bromochloromethane	49	3.052	3.053	(0.731)	2778	2.00000	1.88	
33	Tetrahydrofuran	42	3.084	3.080	(0.739)	1237	2.00000	3.96(QM)	NI
34	Chloroform	83	3.170	3.165	(0.759)	6440	2.00000	1.96	
$ 35	Dibromofluoromethane (S)	113	3.335	3.342	(0.799)	85510	50.0000	50.0	
36	1,1,1-Trichloroethane	97	3.341	3.342	(0.800)	5089	2.00000	1.78	
37	Cyclohexane	56	3.426	3.427	(0.821)	7527	2.00000	1.99	
38	Carbon Tetrachloride	117	3.533	3.523	(0.846)	3783	2.00000	1.58	
39	1,1-Dichloropropene	75	3.533	3.534	(0.846)	4616	2.00000	1.64	
40	Benzene	78	3.779	3.774	(0.905)	14358	2.00000	1.85	
41	1,2-Dichloroethane	62	3.875	3.860	(0.928)	4465	2.00000	2.08(M)	NI
42	Isobutyl alcohol	43	3.950	3.951	(0.946)	3588	2.00000	2.01(M)	NI
43	2,2,4-Trimethylpentane	57	3.950	3.951	(0.946)	14007	2.00000	1.65	
* 44	Fluorobenzene (IS)	96	4.174	4.175	(1.000)	373398	50.0000		
45	Trichloroethene	95	4.633	4.624	(1.110)	3254	2.00000	1.74	
46	Methylcyclohexane	55	4.895	4.891	(1.173)	4608	2.00000	1.64(QM)	NI
47	1,2-Dichloropropane	63	4.932	4.928	(1.182)	3257	2.00000	1.82(M)	NI
48	Methyl methacrylate	69	5.055	5.046	(1.211)	810	2.00000	1.04(QM)	NI
49	Dibromomethane	93	5.029	5.024	(1.205)	1623	2.00000	1.95	
51	Bromodichloromethane	83	5.253	5.254	(1.258)	4023	2.00000	1.98(M)	NI
53	cis-1,3-Dichloropropene	75	5.760	5.745	(0.784)	3577	2.00000	1.59	
54	4-Methyl-2-Pentanone	43	5.926	5.921	(0.807)	11029	10.0000	9.70	
$ 55	Toluene-d8 (S)	98	6.022	6.023	(0.820)	325470	50.0000	50.2	
56	Toluene	91	6.097	6.092	(0.830)	17313	2.00000	2.05	
57	trans-1,3-Dichloropropene	75	6.385	6.381	(0.869)	2488	2.00000	1.54(M)	NI
58	Ethyl Methacrylate	69	6.471	6.466	(0.881)	2447	2.00000	1.79(M)	NI
59	1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	1897	2.00000	1.98	
60	Tetrachloroethene	166	6.615	6.621	(0.900)	3004	2.00000	1.74	
61	1,3-Dichloropropane	76	6.711	6.707	(0.913)	4328	2.00000	2.08	
62	2-Hexanone	43	6.786	6.776	(0.924)	7533	10.0000	10.3(M)	NI
63	Dibromochloromethane	129	6.898	6.888	(0.939)	2062	2.00000	1.91	
64	1,2-Dibromoethane	107	6.978	6.974	(0.950)	2067	2.00000	2.04	
* 65	Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	200624	50.0000		
66	Chlorobenzene	112	7.368	7.369	(1.003)	8590	2.00000	2.08	
67	1,1,1,2-Tetrachloroethane	131	7.443	7.444	(1.013)	2114	2.00000	1.73	
68	Ethylbenzene	106	7.453	7.449	(1.015)	4249	2.00000	1.76	
69	m&p-Xylene	106	7.550	7.550	(1.028)	10492	4.00000	3.60	
70	o-Xylene	106	7.811	7.807	(1.063)	4632	2.00000	1.75	
71	Styrene	104	7.827	7.823	(1.065)	7968	2.00000	1.80	
72	Bromoform	173	7.945	7.946	(0.899)	895	2.00000	1.80(M)	NI
73	Isopropylbenzene	105	8.052	8.053	(1.096)	13067	2.00000	1.85	
$ 74	4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	87250	50.0000	49.5	
75	Bromobenzene	77	8.244	8.245	(1.122)	5632	2.00000	2.14	
76	1,1,2,2-Tetrachloroethane	83	8.255	8.256	(0.934)	2874	2.00000	2.39	
77	trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	616	2.00000	2.01(QM)	NI
78	1,2,3-Trichloropropane	110	8.292	8.282	(0.938)	819	2.00000	2.48(QM)	NI
79	n-Propylbenzene	91	8.313	8.314	(0.940)	15726	2.00000	1.86	
80	2-Chlorotoluene	91	8.361	8.362	(0.946)	8824	2.00000	1.91	
81	1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	9980	2.00000	1.87	
82	4-Chlorotoluene	126	8.436	8.437	(0.954)	3180	2.00000	2.03	
83	tert-Butylbenzene	119	8.602	8.603	(0.973)	10819	2.00000	1.83	
84	1,2,4-Trimethylbenzene	105	8.639	8.635	(0.977)	10821	2.00000	1.98	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
85	sec-Butylbenzene	105	8.730	8.731	(0.987)	12557	2.00000	1.78	
86	1,3-Dichlorobenzene	146	8.799	8.795	(0.995)	5172	2.00000	1.90	
87	p-Isopropyltoluene	119	8.815	8.811	(0.997)	11043	2.00000	1.88	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	80882	50.0000		
89	1,4-Dichlorobenzene	146	8.858	8.854	(1.002)	5772	2.00000	2.15	
90	n-Butylbenzene	91	9.034	9.030	(1.022)	9982	2.00000	1.70	
91	1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	5403	2.00000	2.20	
92	1,2-Dibromo-3-chloropropane	155	9.456	9.452	(1.069)	145	2.00000	1.39(QM)	NI
93	1,2,4-Trichlorobenzene	180	9.857	9.858	(1.115)	3133	2.00000	2.21(M)	NI
94	Hexachlorobutadiene	225	9.921	9.927	(1.122)	1633	2.00000	1.95(M)	NI
95	Naphthalene	128	10.001	10.002	(1.131)	6563	2.00000	2.12(M)	LT
96	1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	2863	2.00000	2.18(M)	NI
97	2,methyl-naphthalene	142	10.637	10.632	(1.203)	3263	2.00000	1.77	
98	1-Methylnaphthalene	142	10.743	10.744	(1.215)	3454	2.00000	2.14	

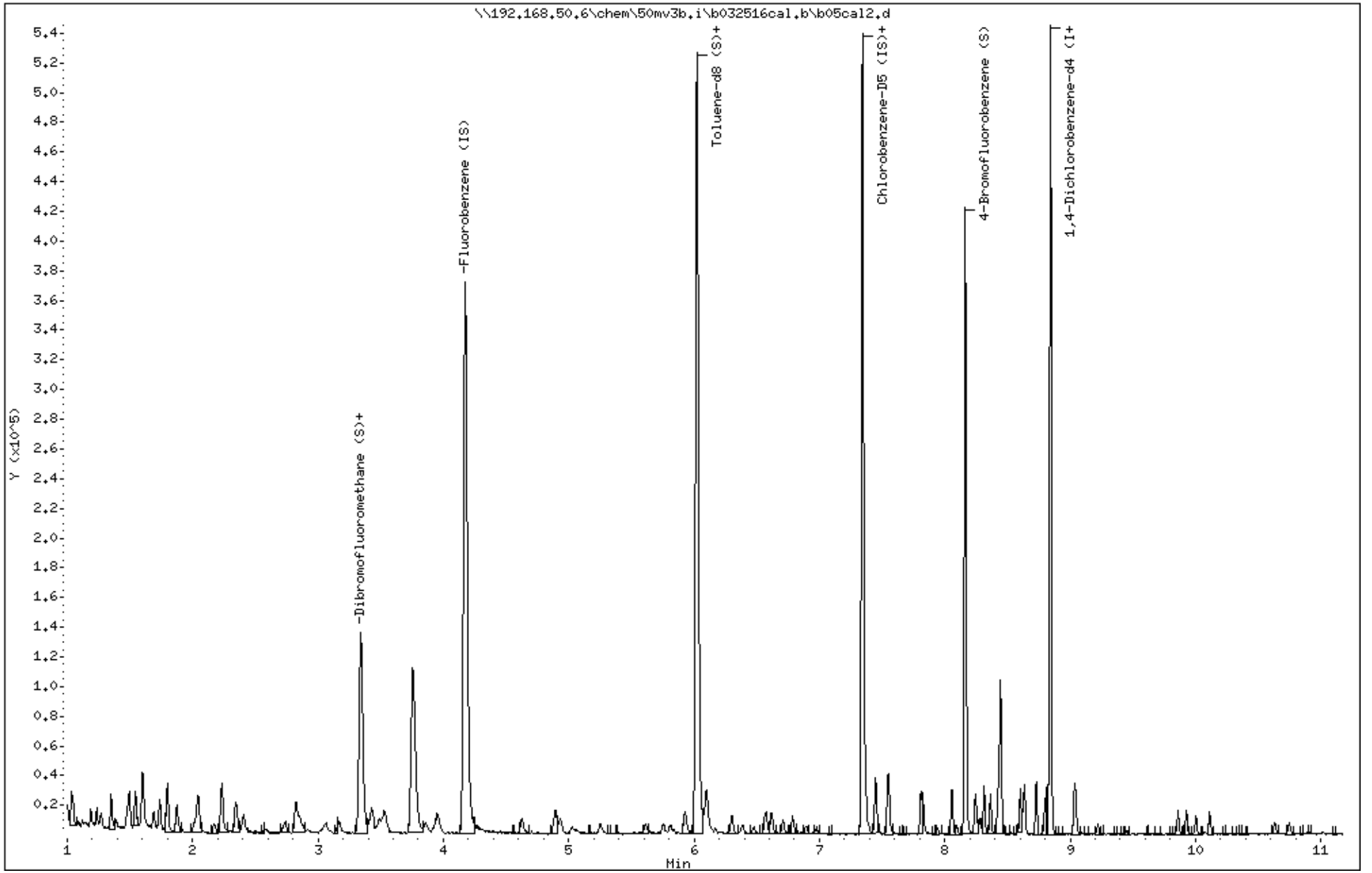
QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

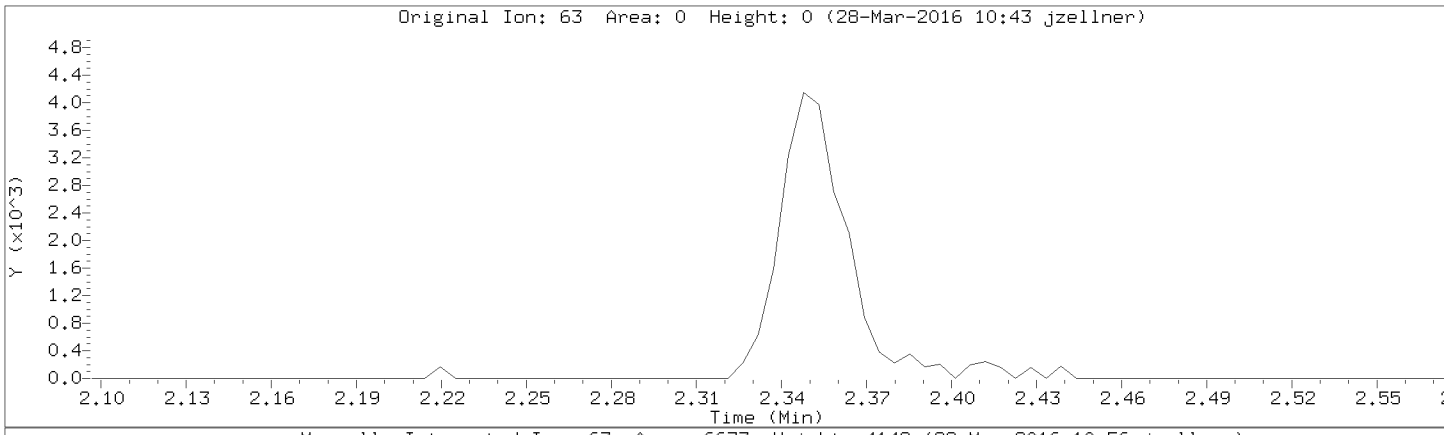
:
NI: Indicates that the peak was not integrated at all by the computer software.
LT: Indicates that the peak in question was inappropriately integrated to an area less than what it should be (e.g., Peak area was cut).

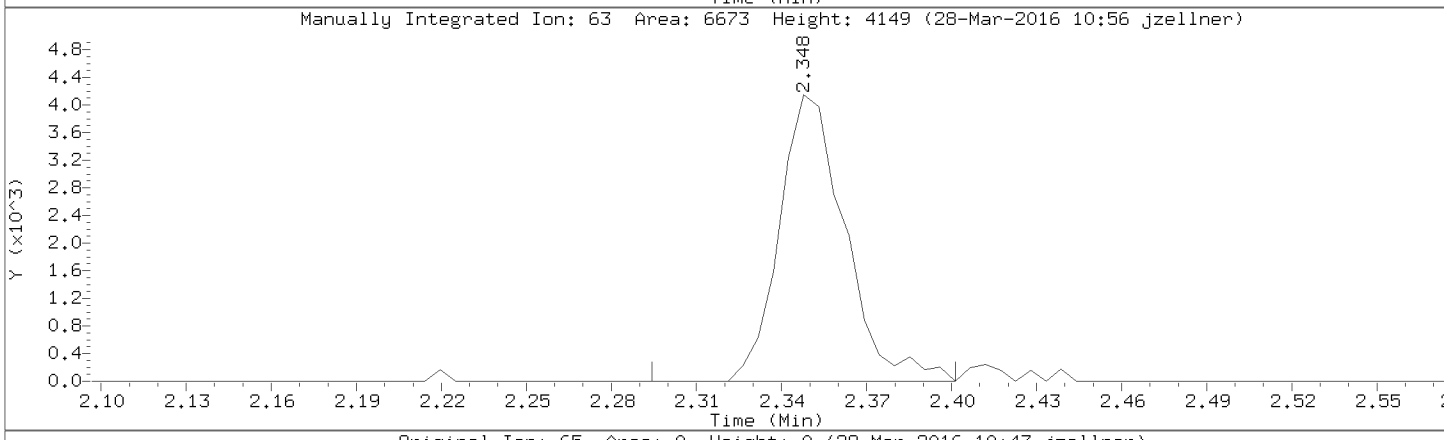
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b05cal2.d
Date : 25-MAR-2016 16:25
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL2,117887:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

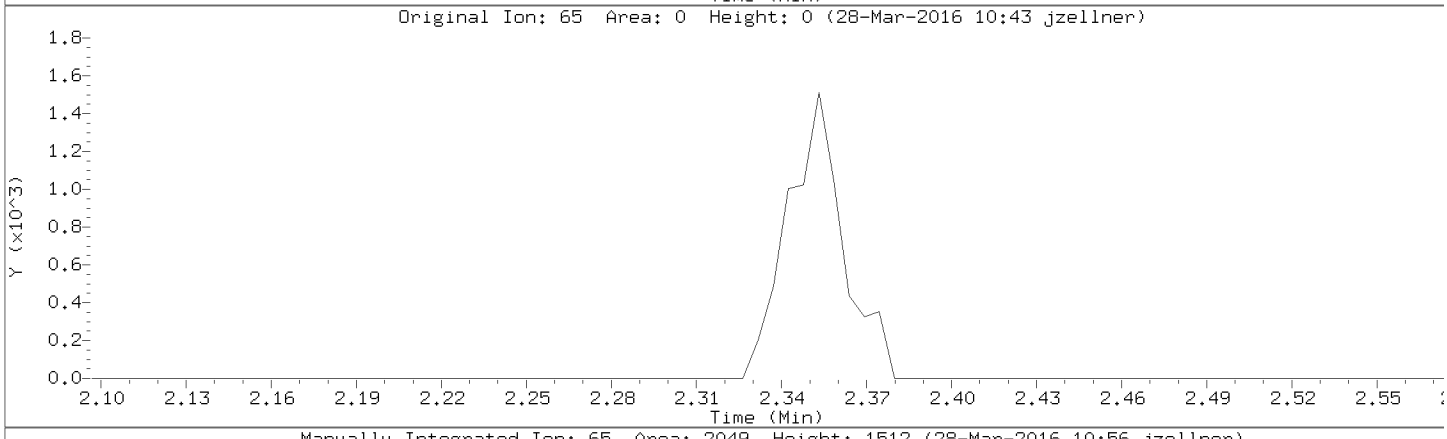


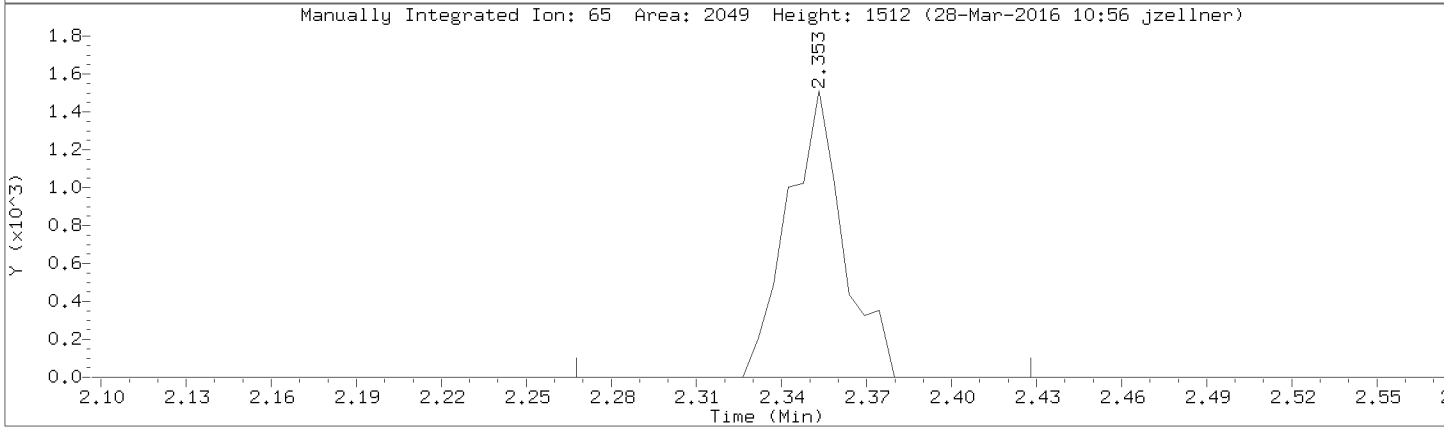
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,1-Dichloroethane Review Code: NI
CAS Number: 75-34-3

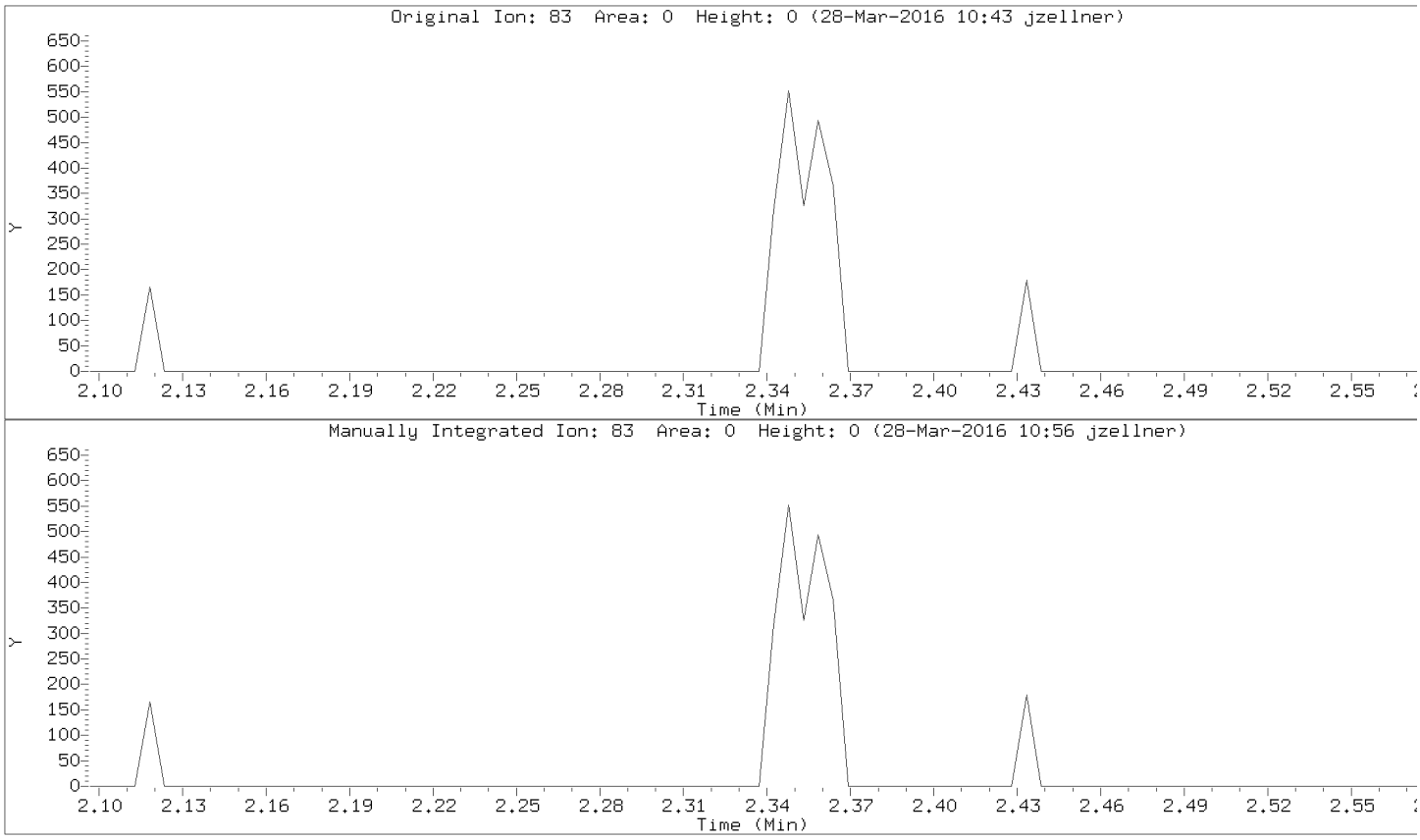






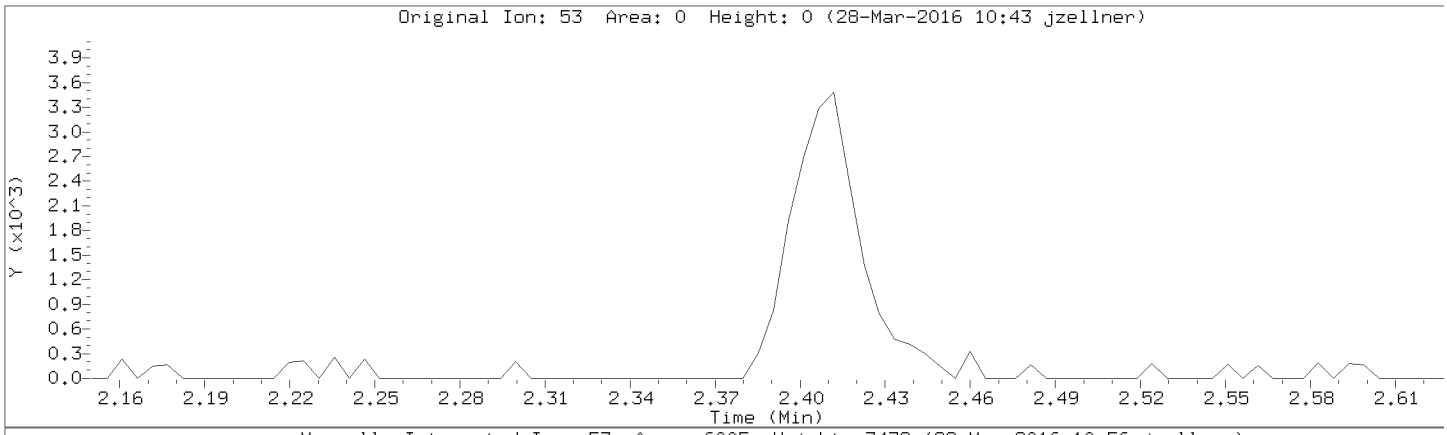


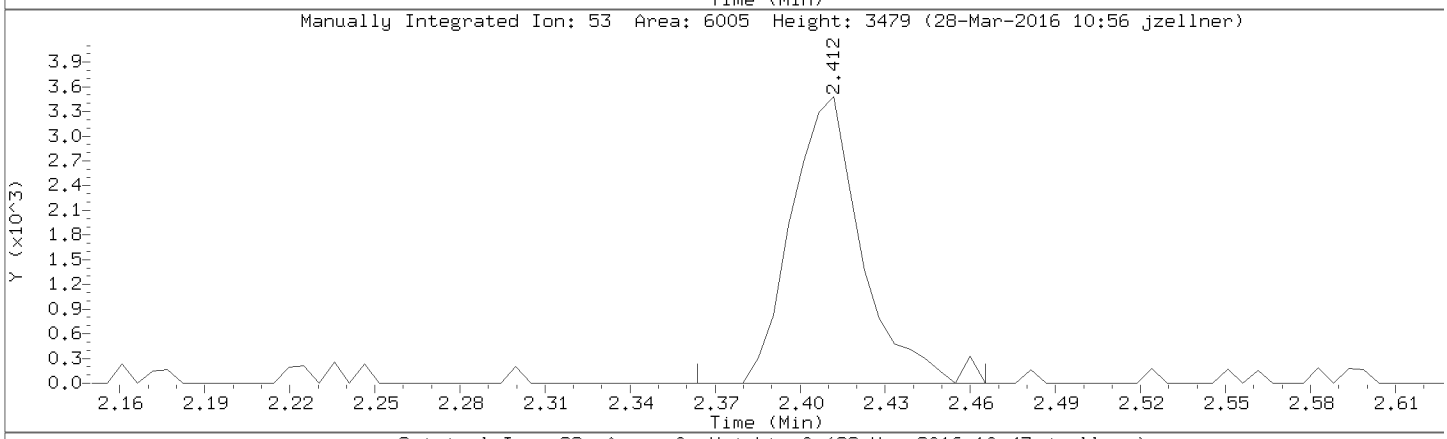
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

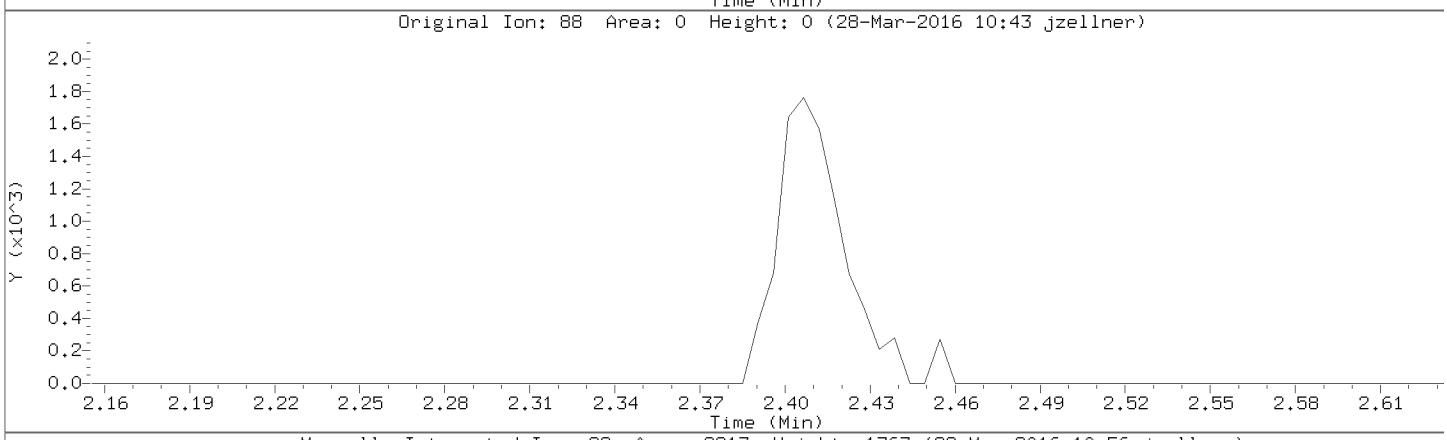


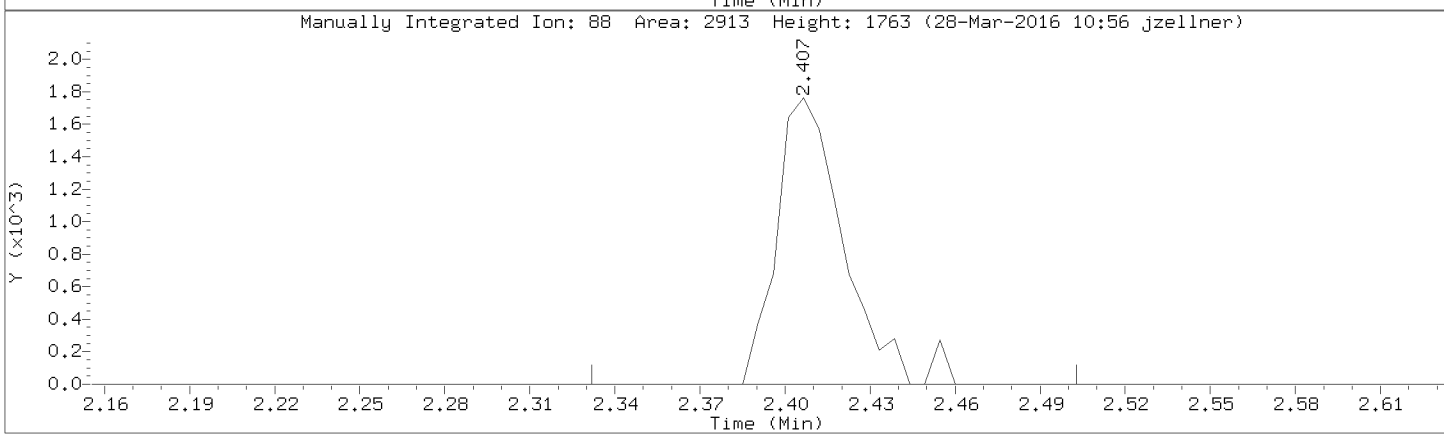
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Chloroprene Review Code: NI
CAS Number: 126-99-8

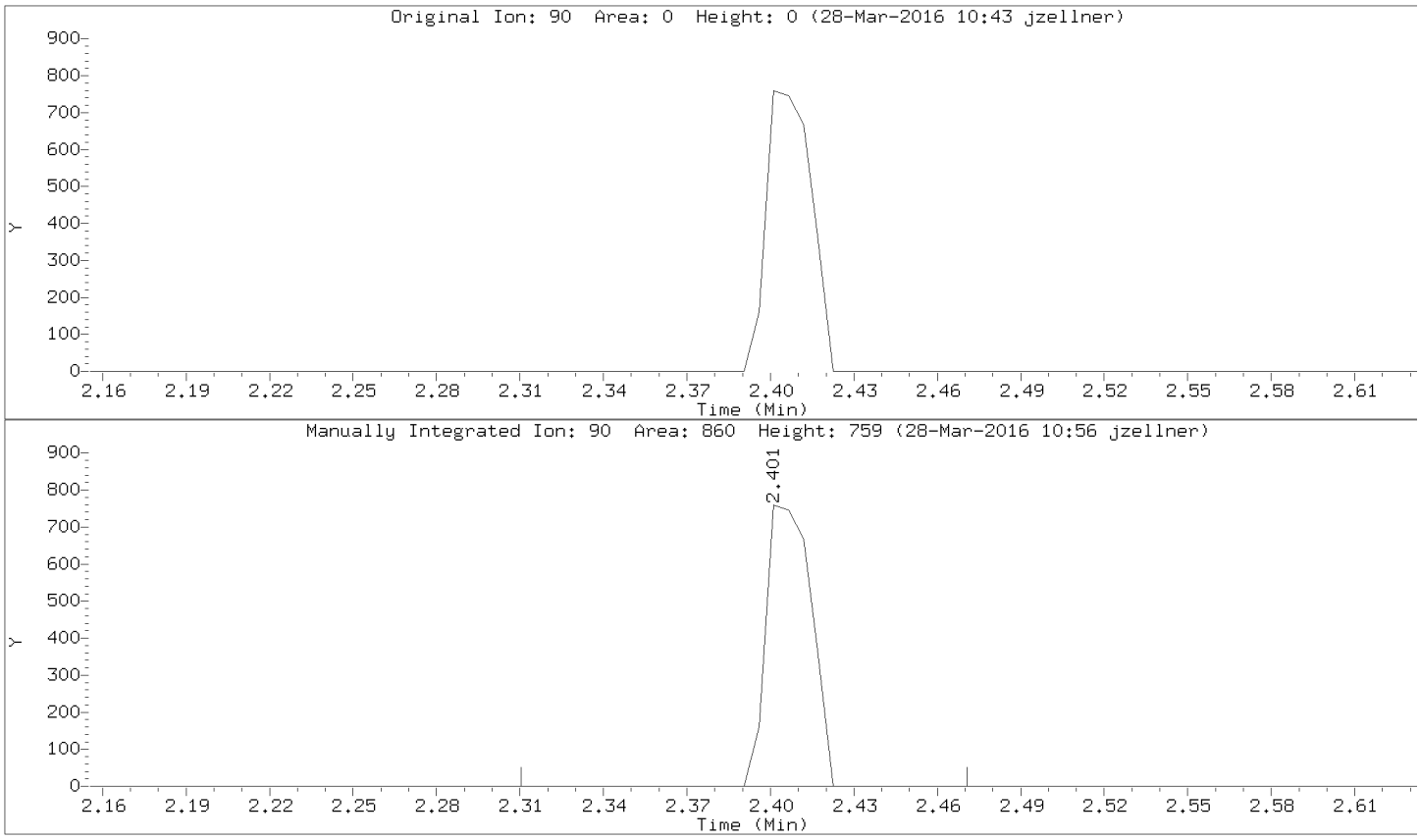






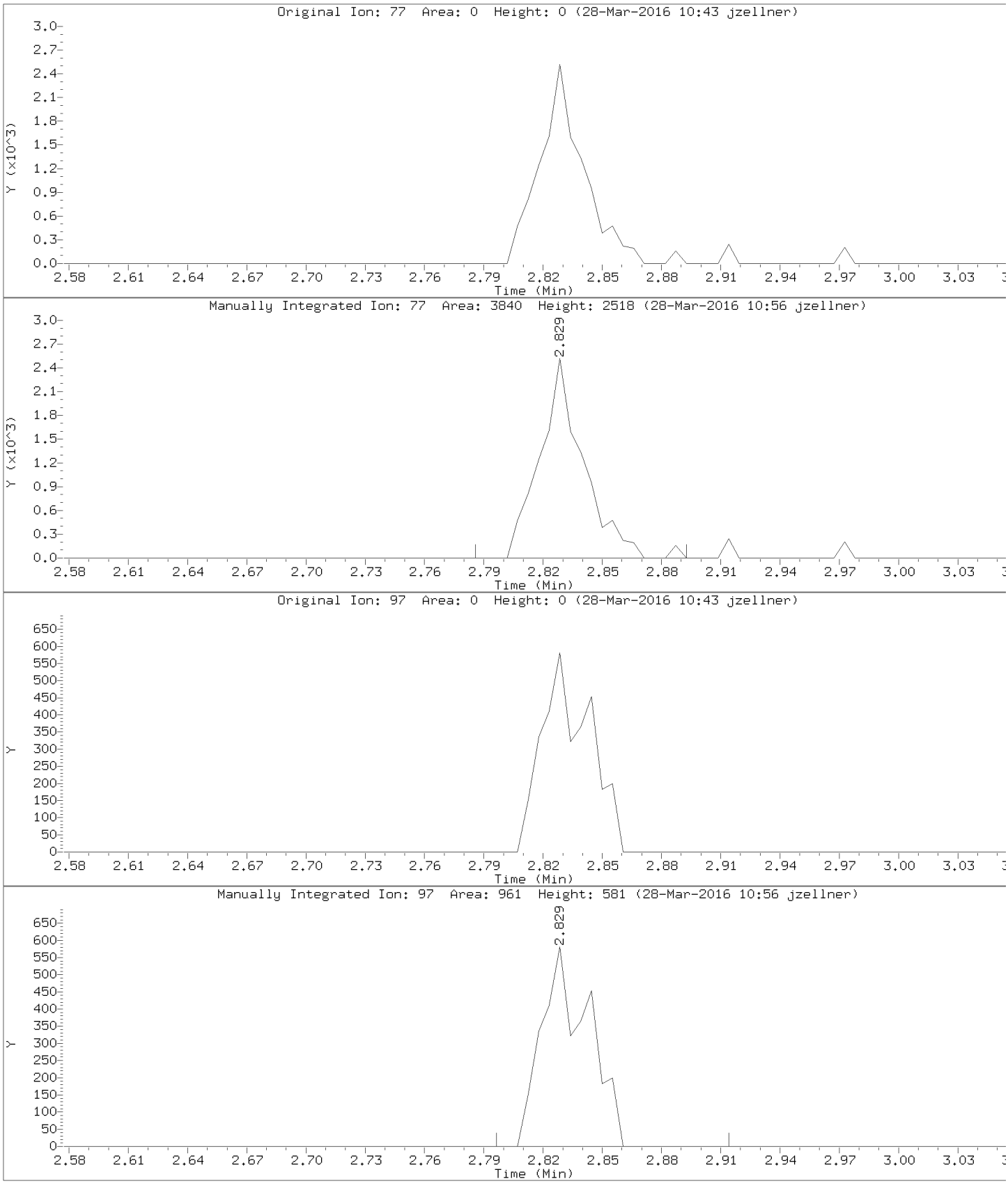


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0



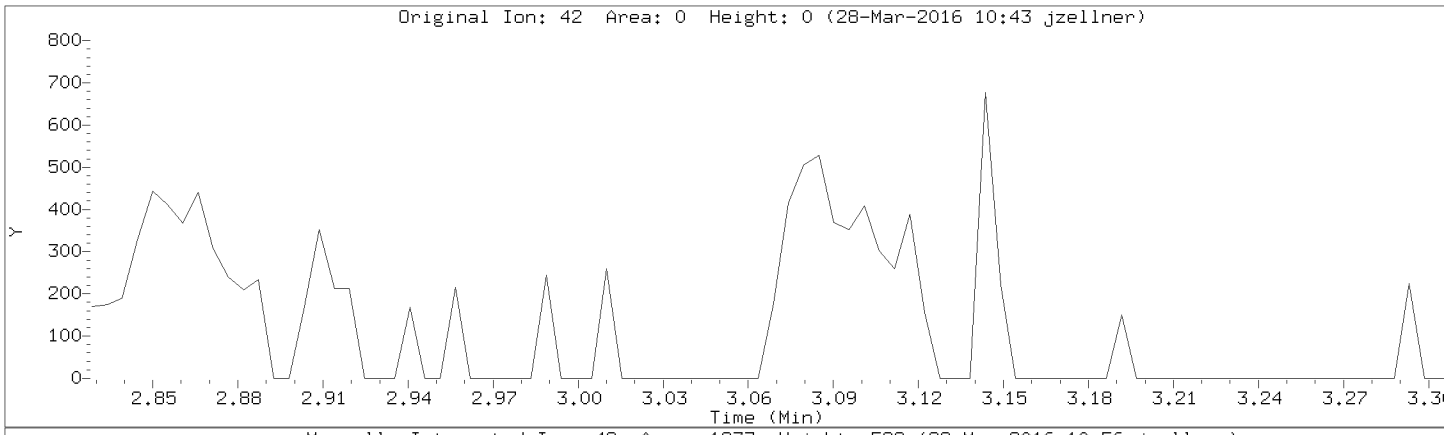
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

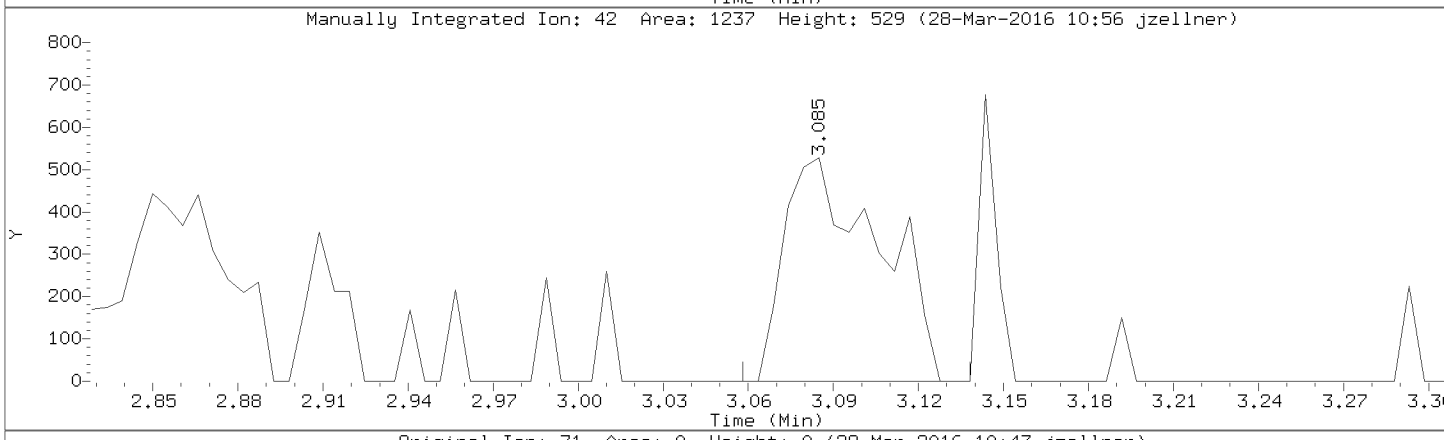
Compound: 2,2-Dichloropropane Review Code: NI
CAS Number: 594-20-7

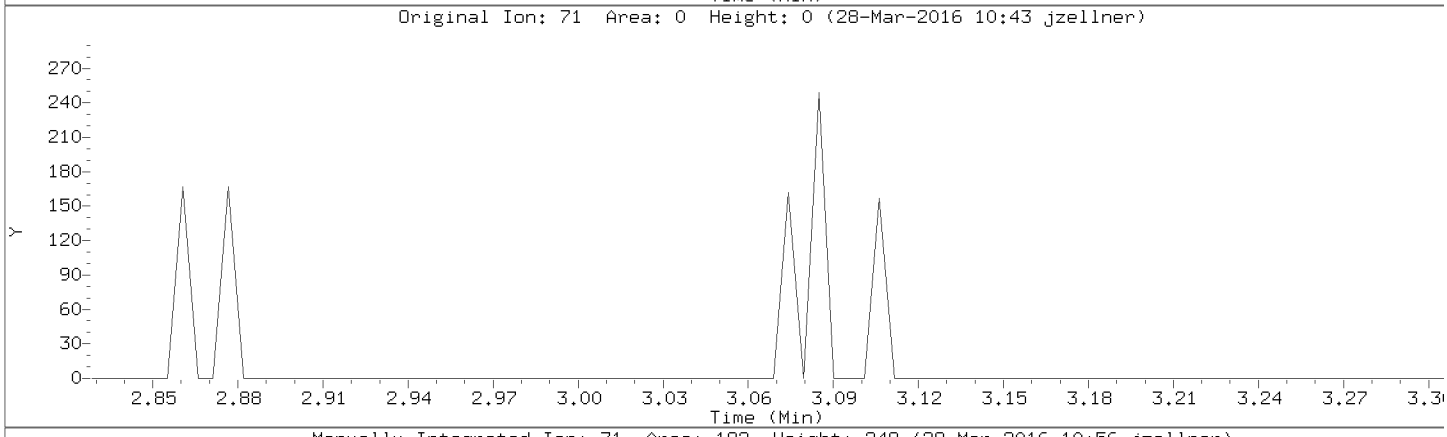


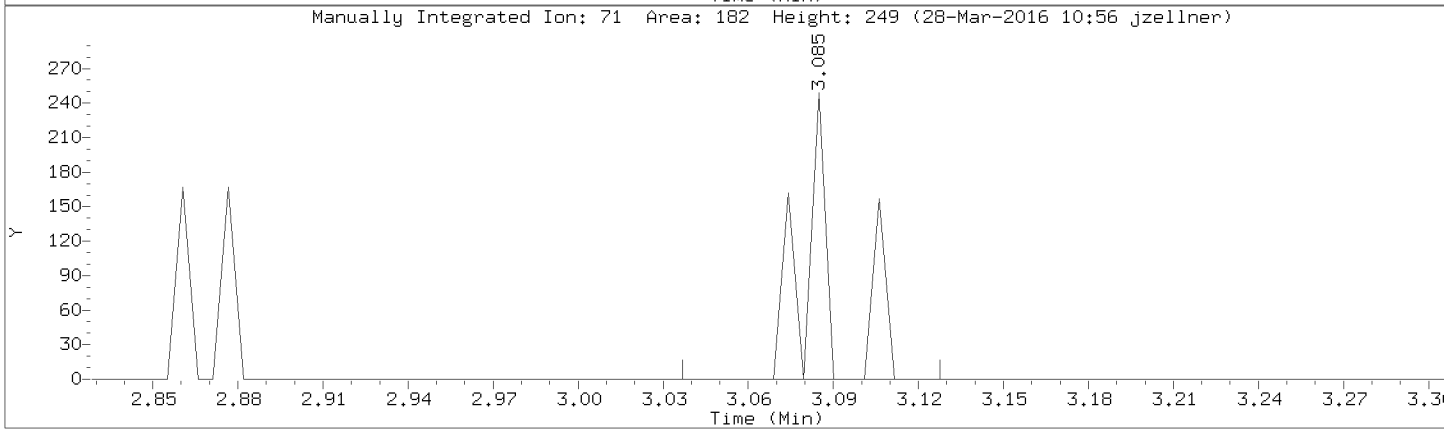
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:

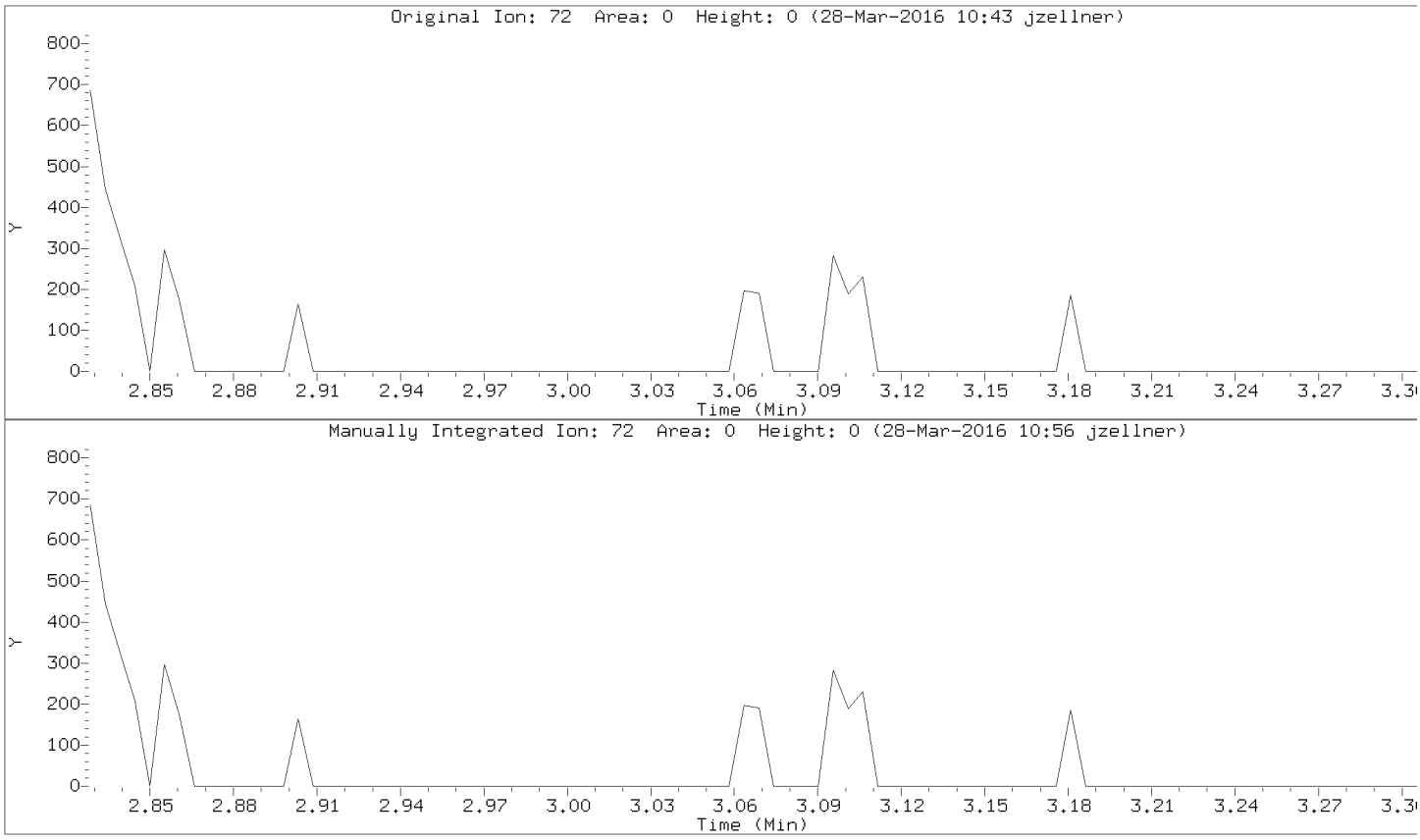






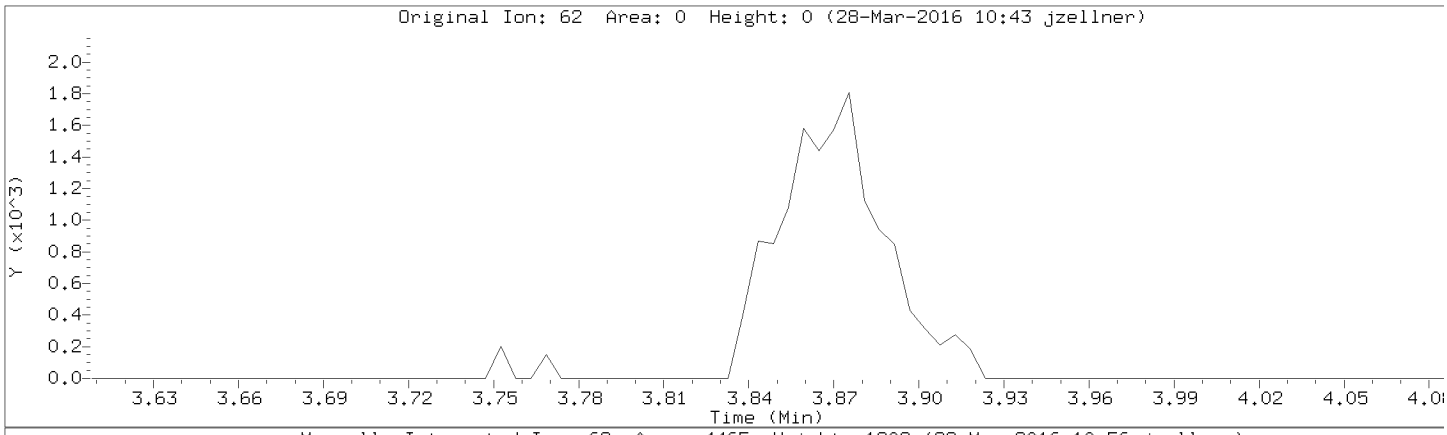


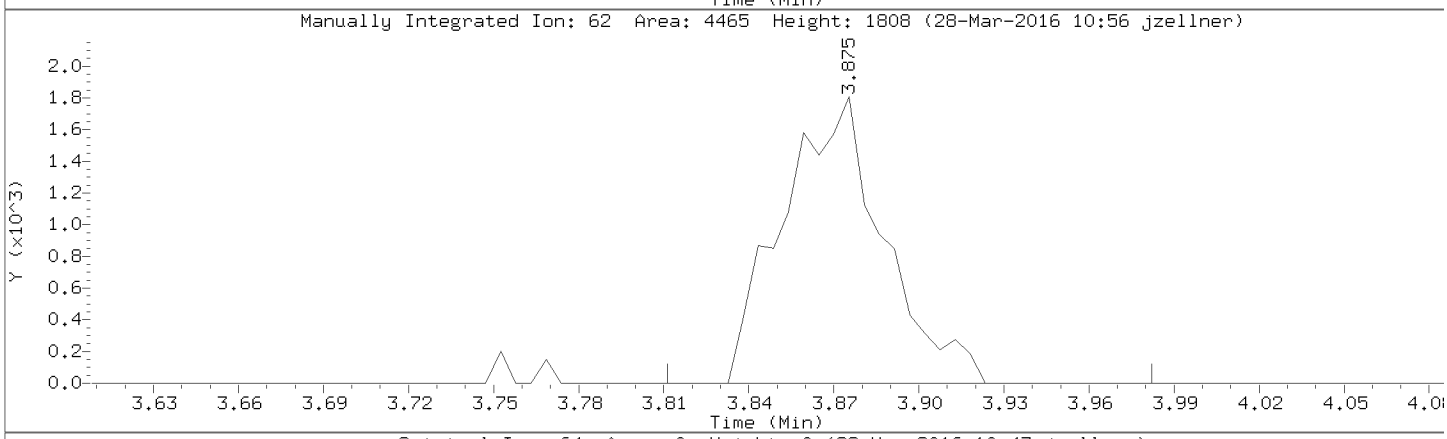
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

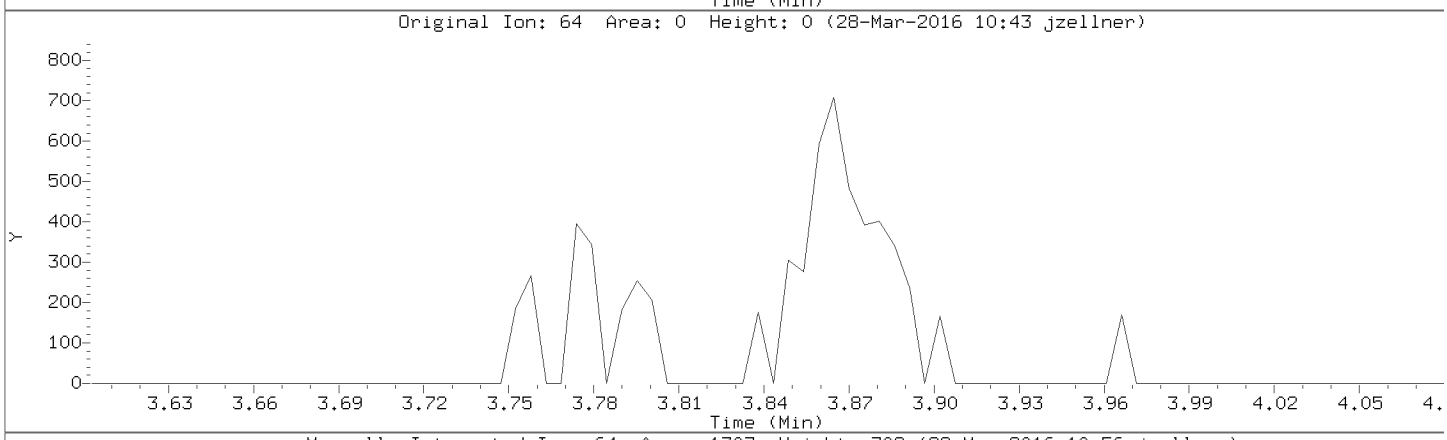


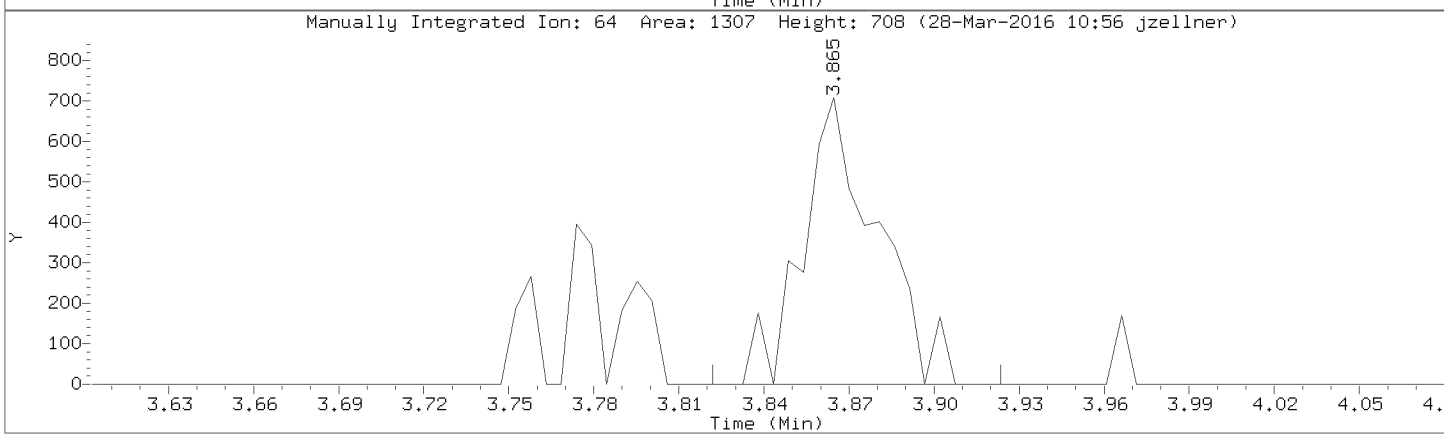
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

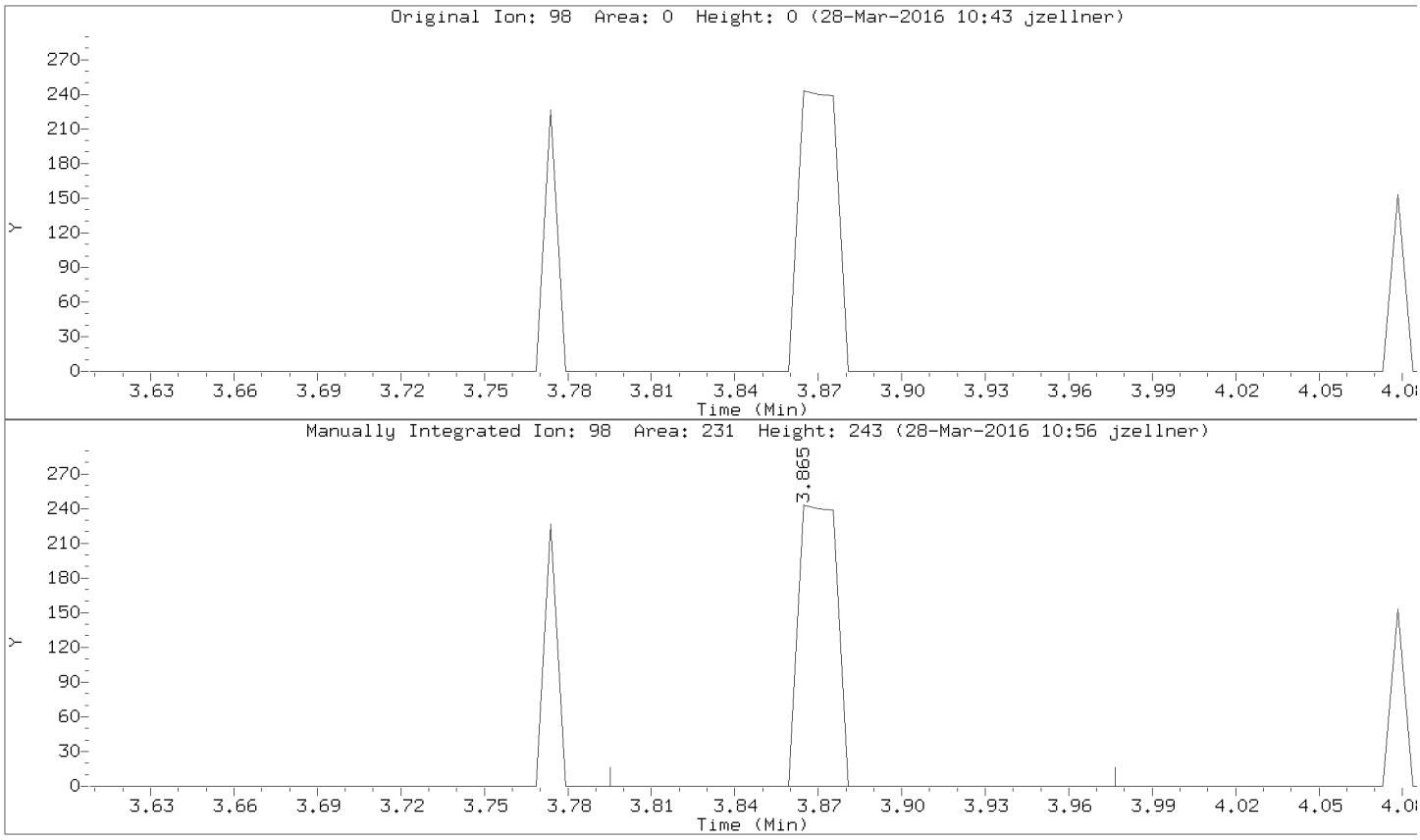






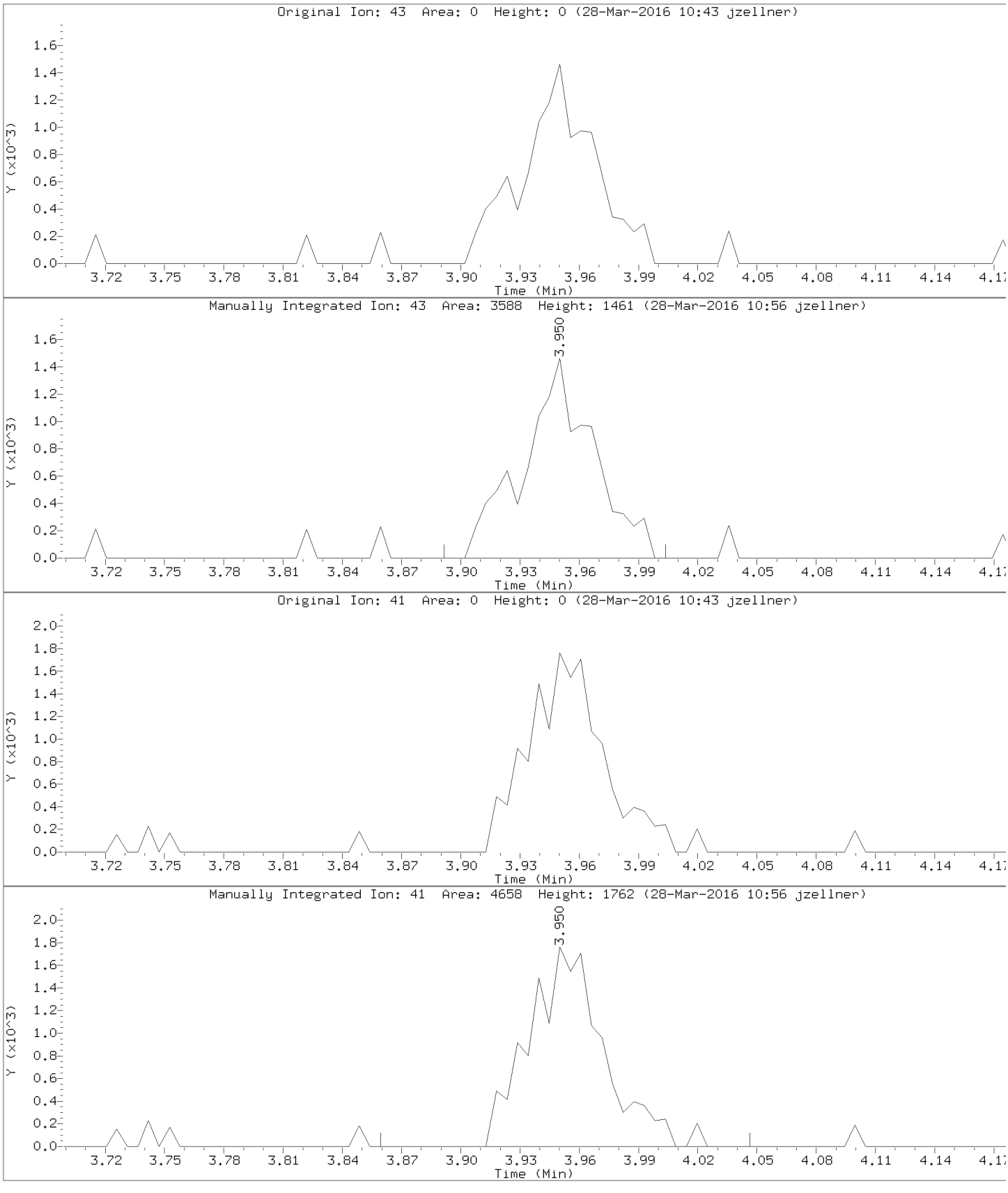


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

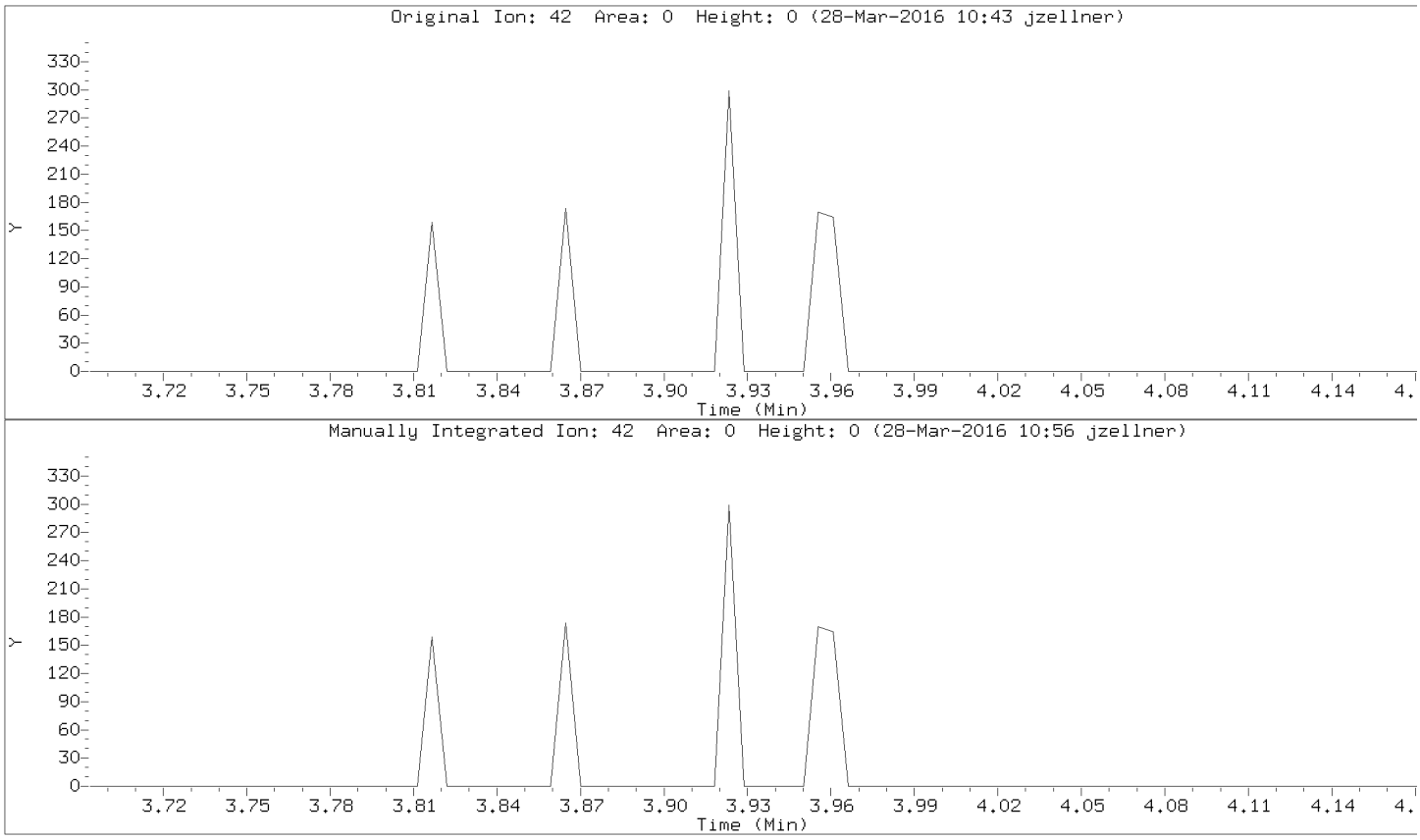


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

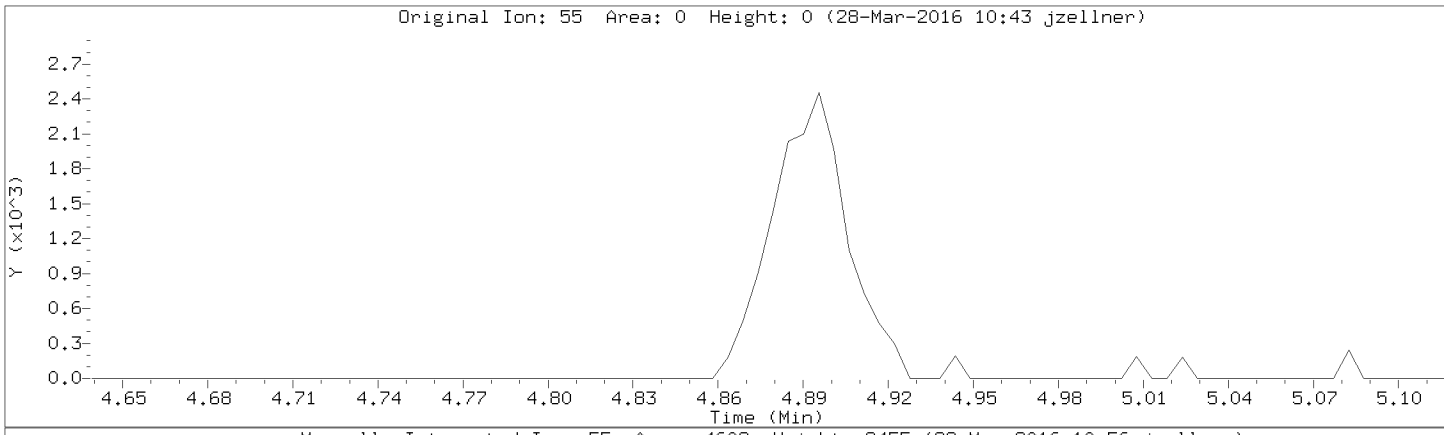


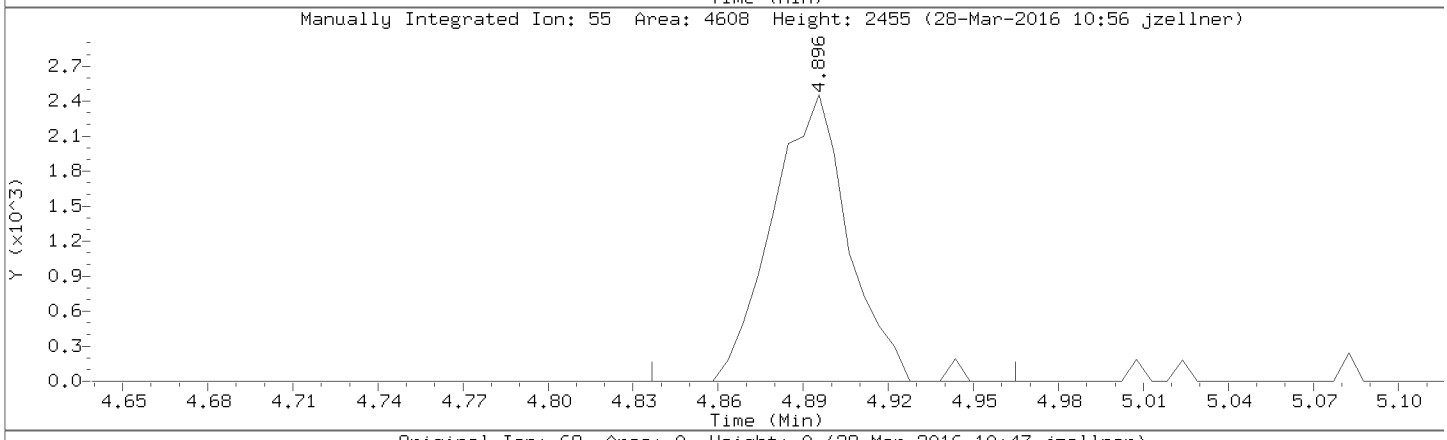
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

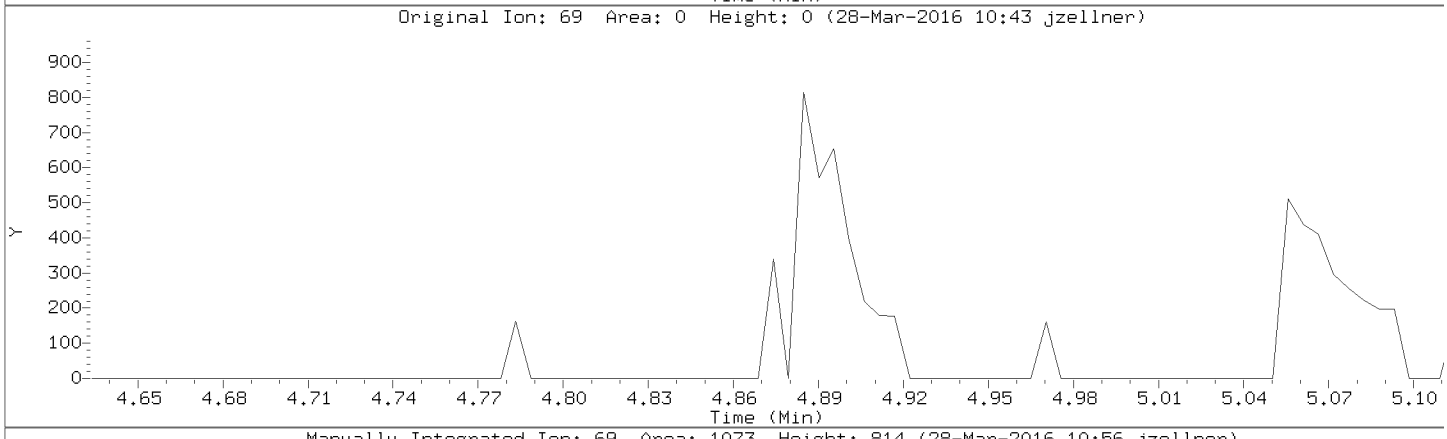


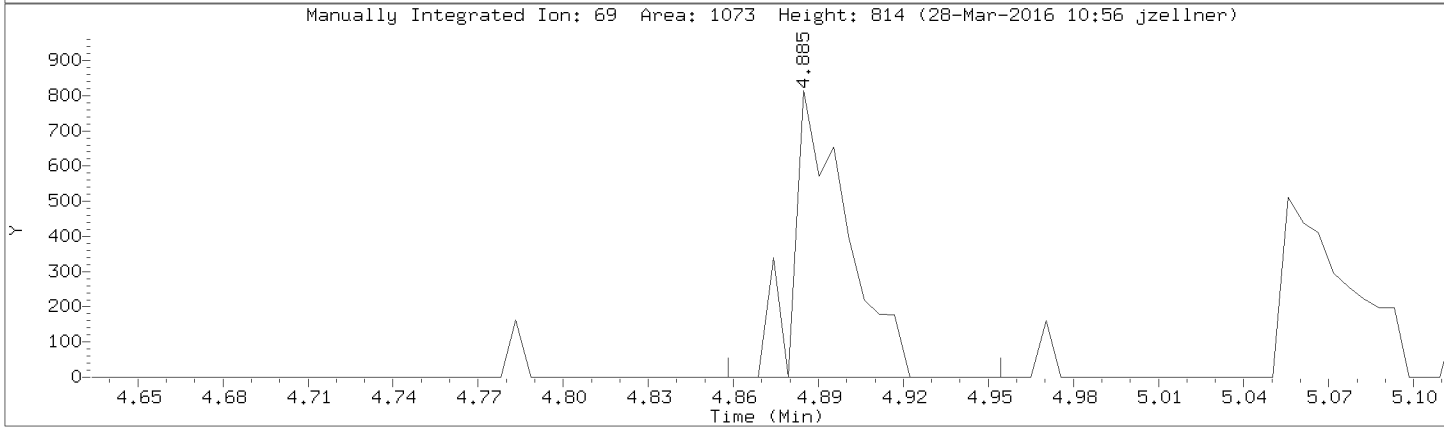
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Methylcyclohexane Review Code: NI
CAS Number: 108-87-2

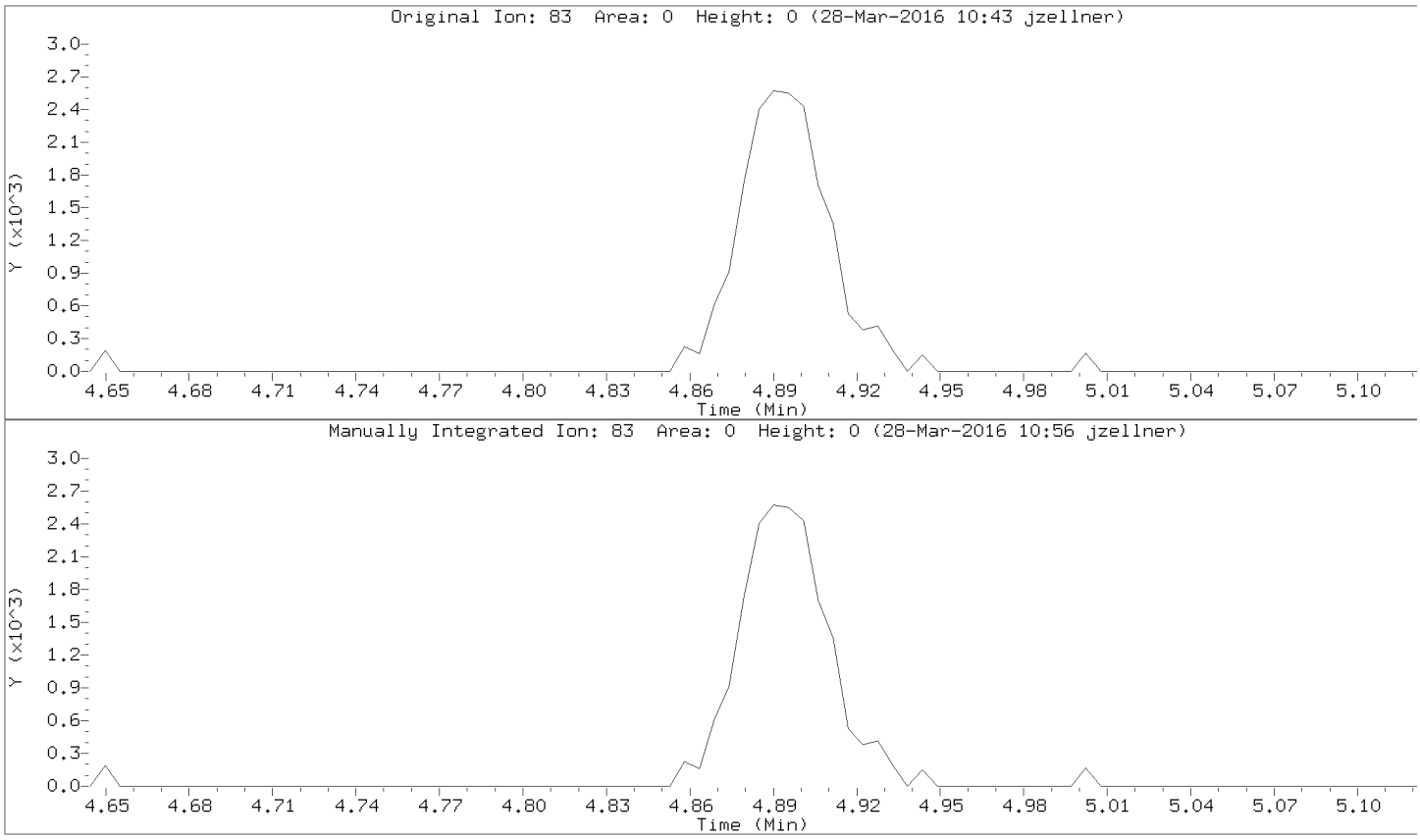






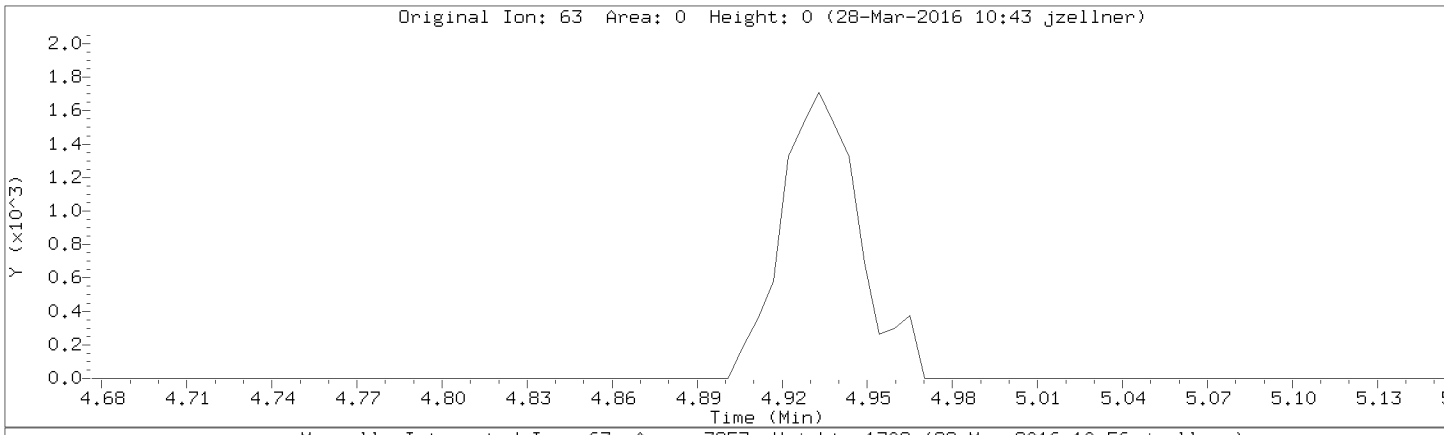


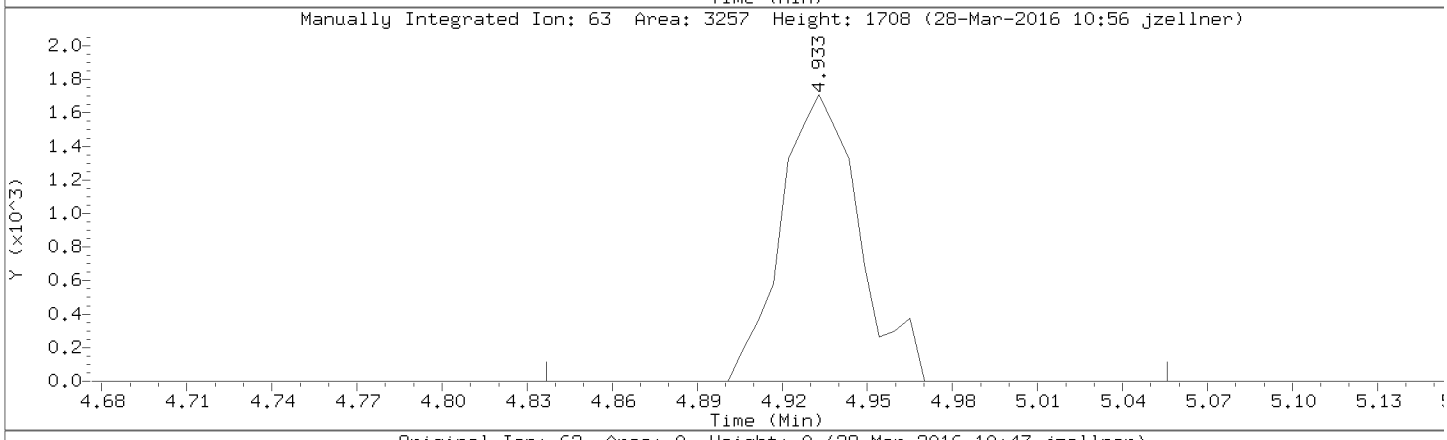
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

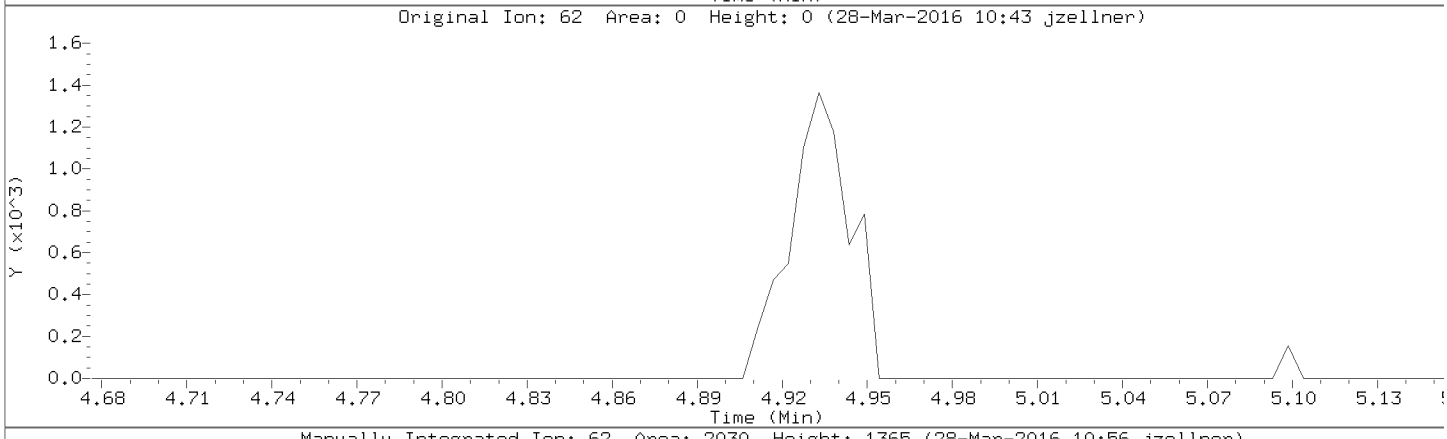


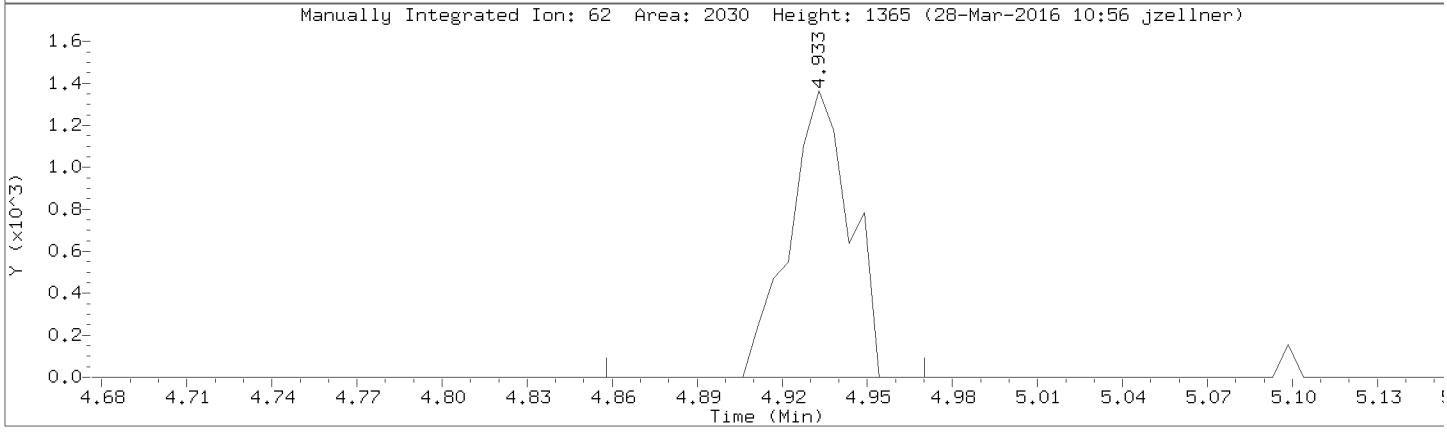
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5

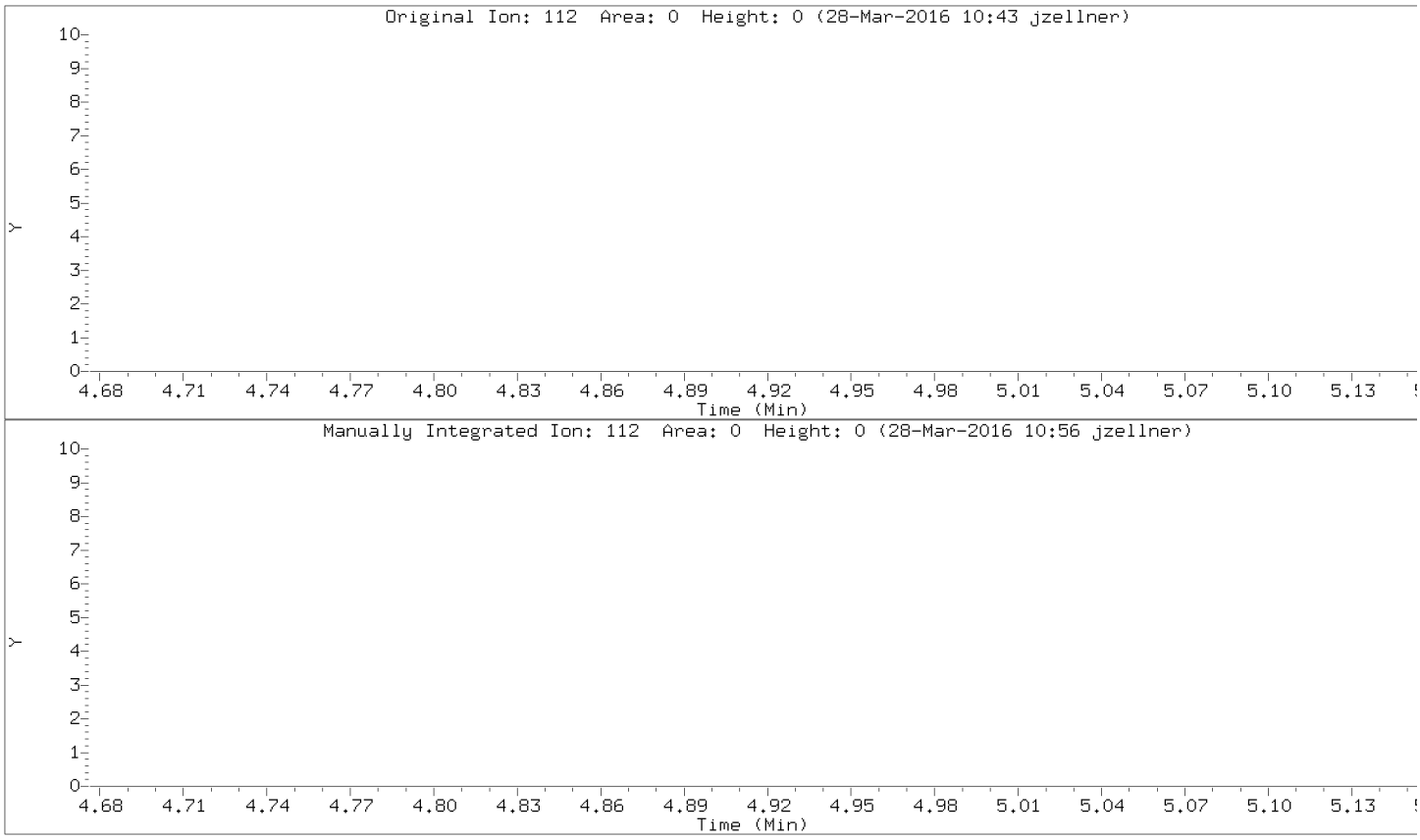






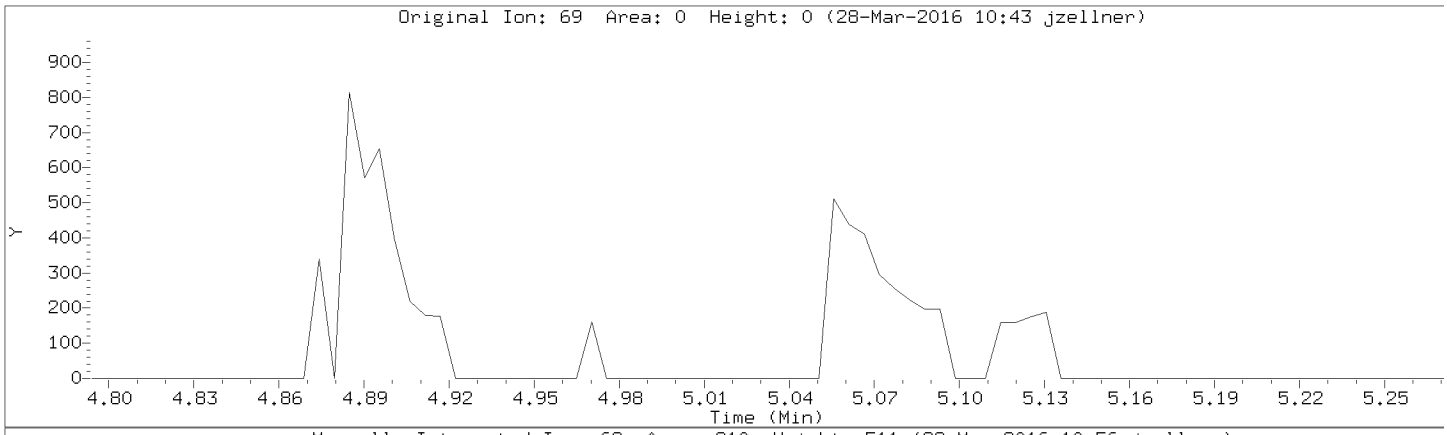


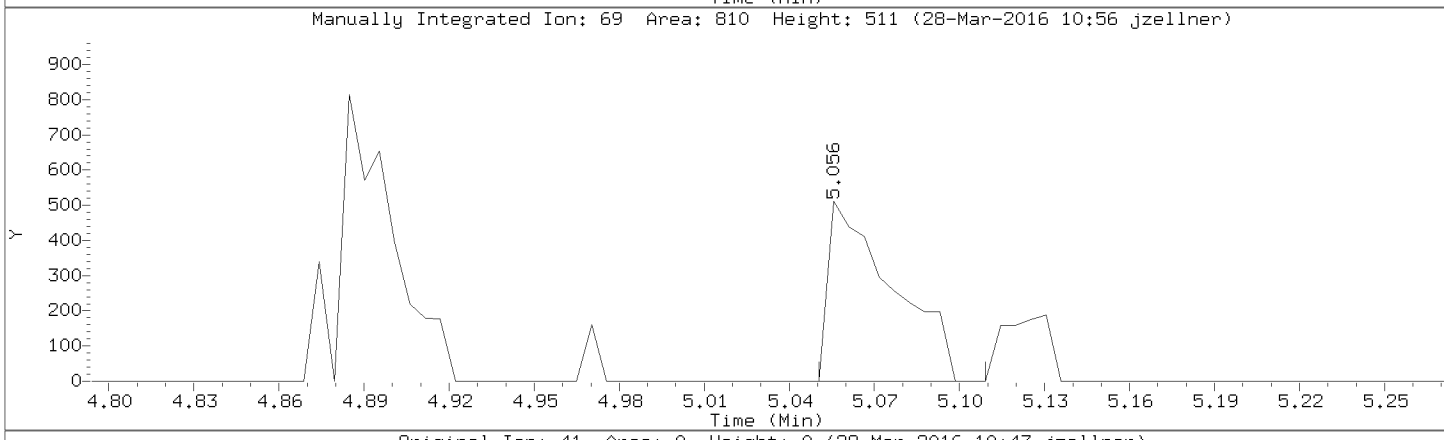
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

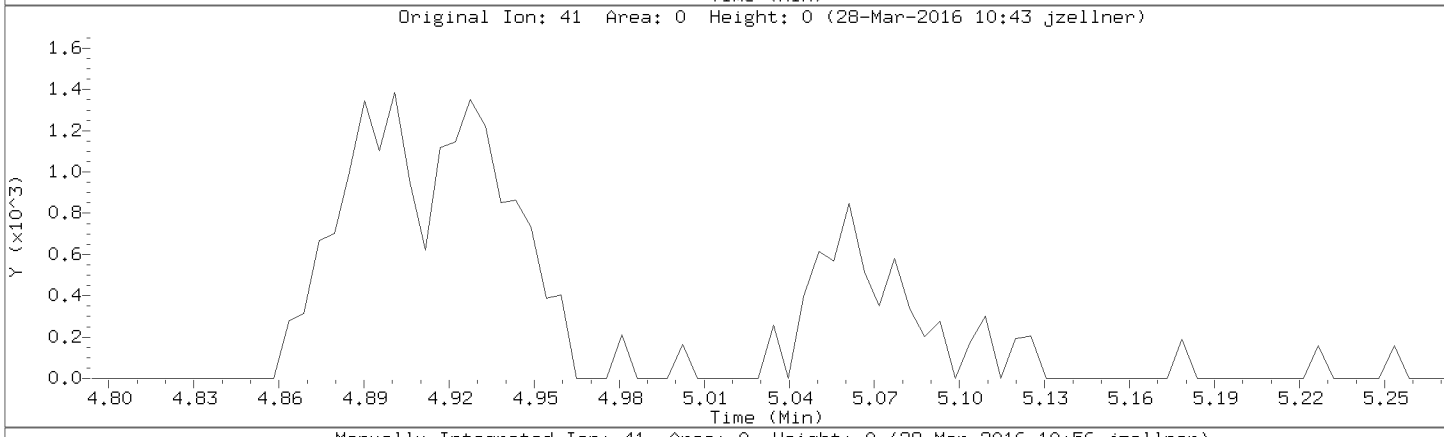


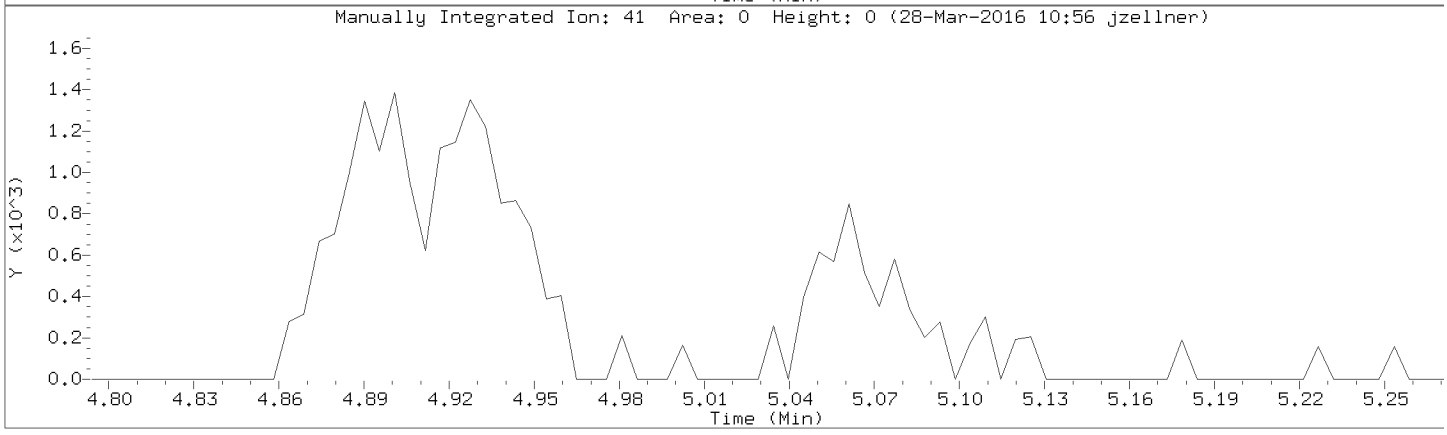
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

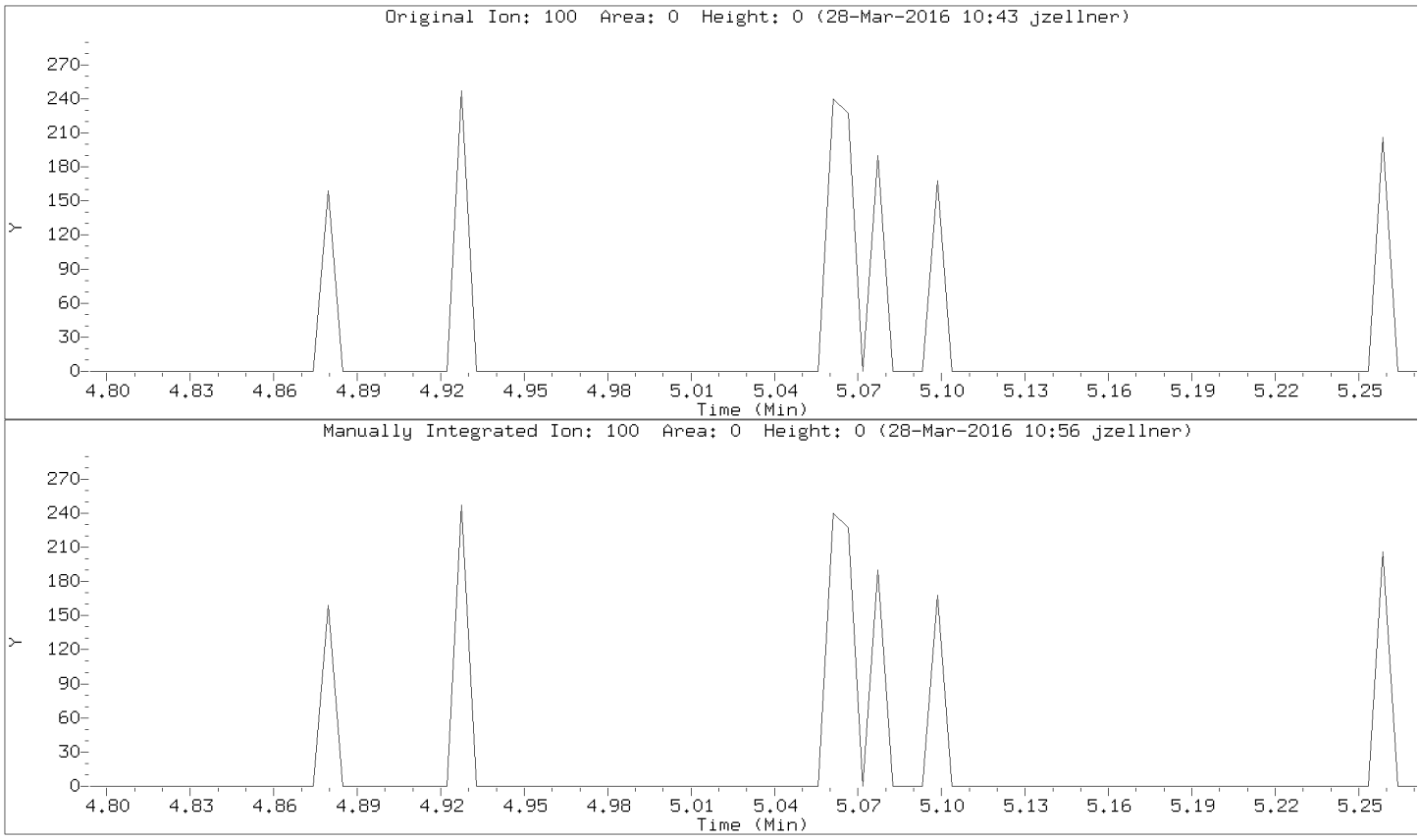






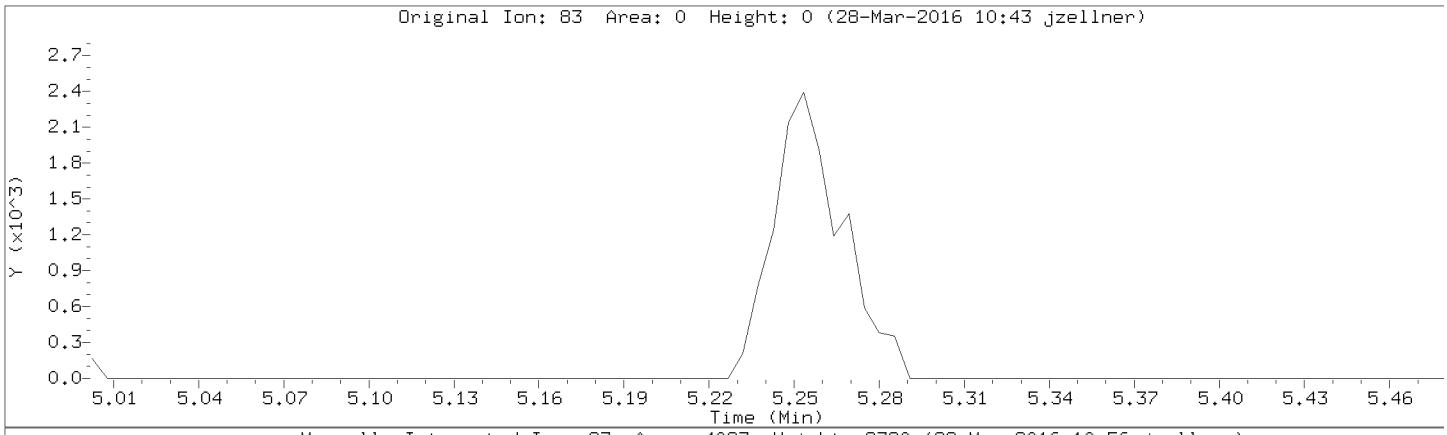


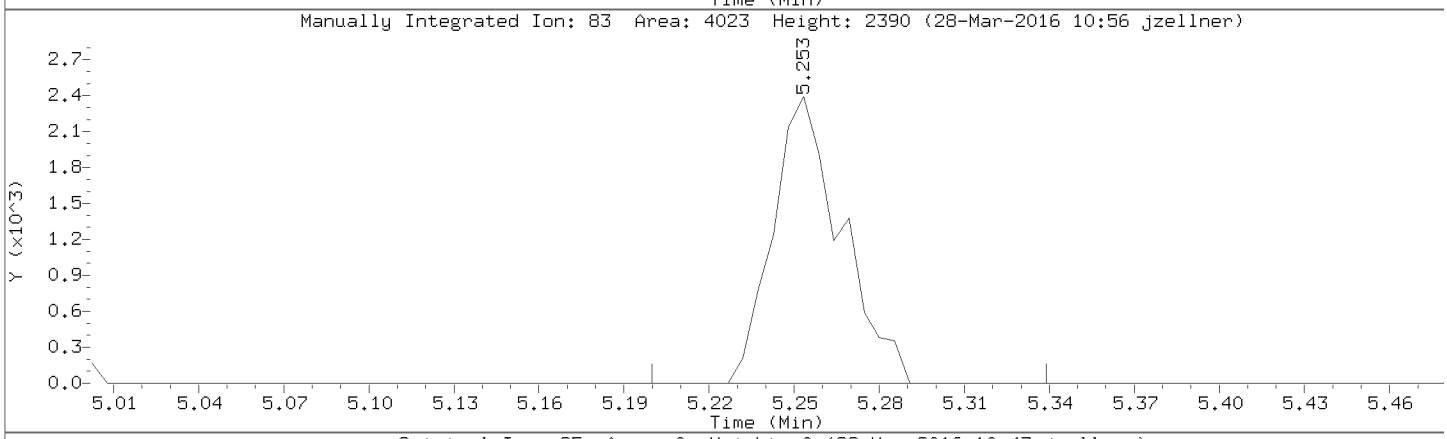
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

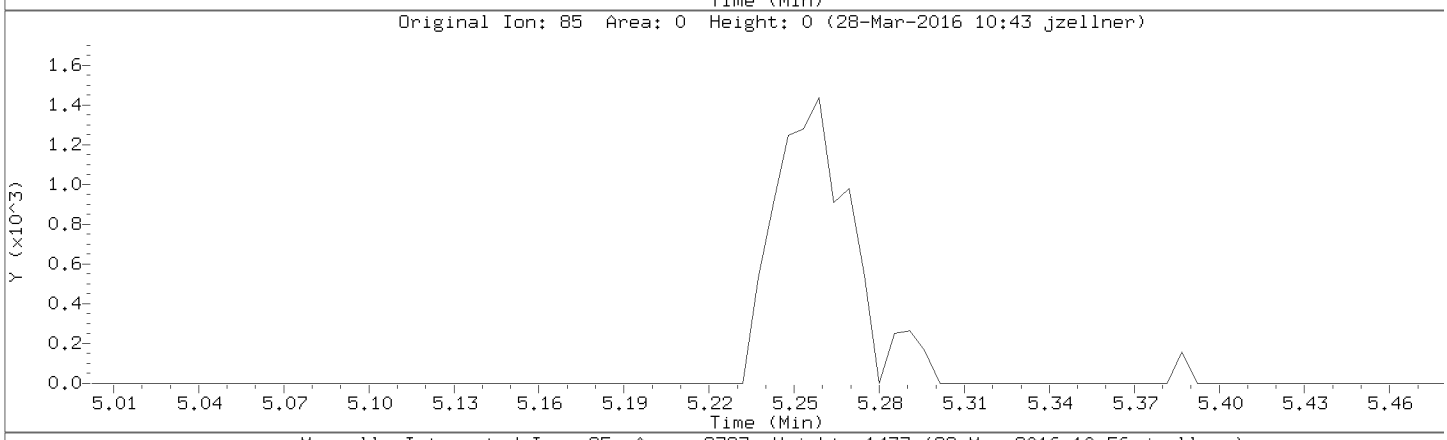


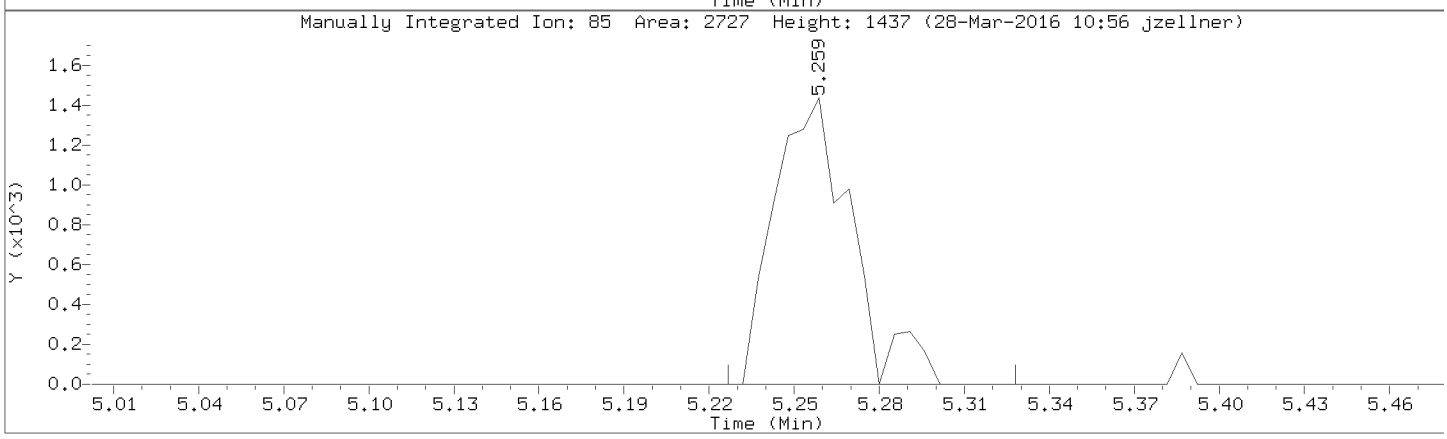
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

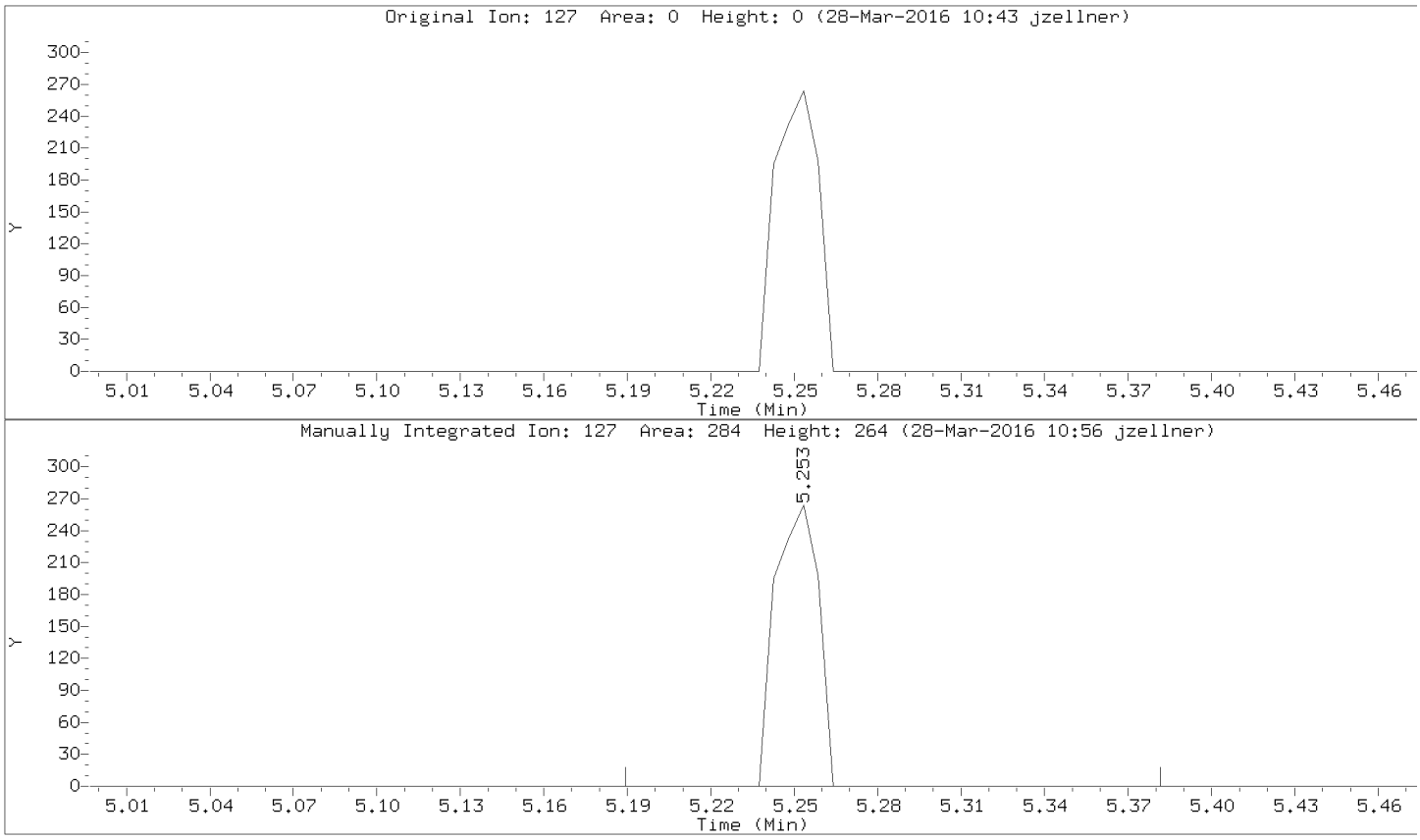






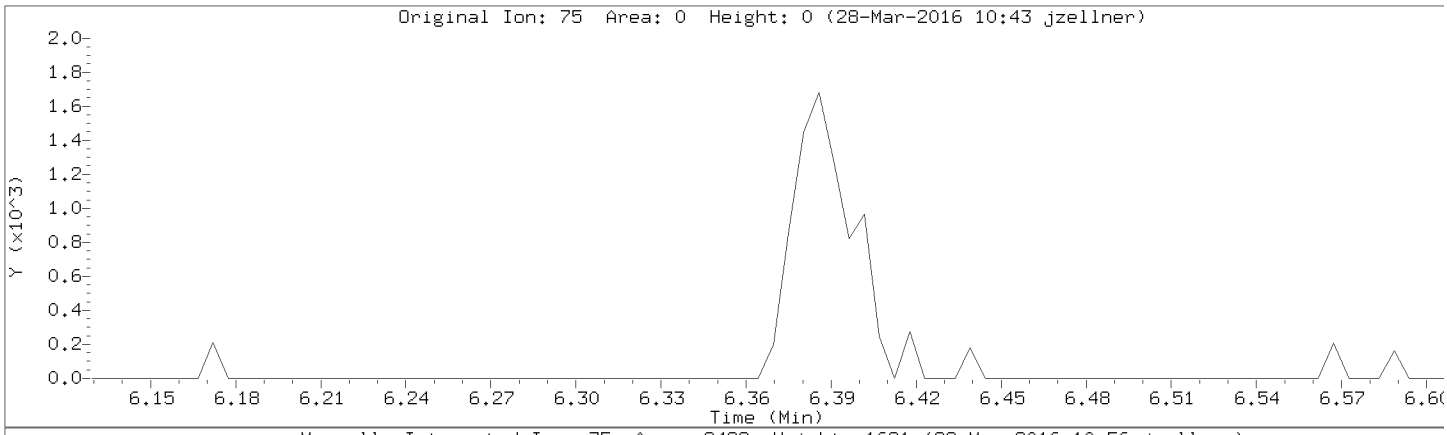


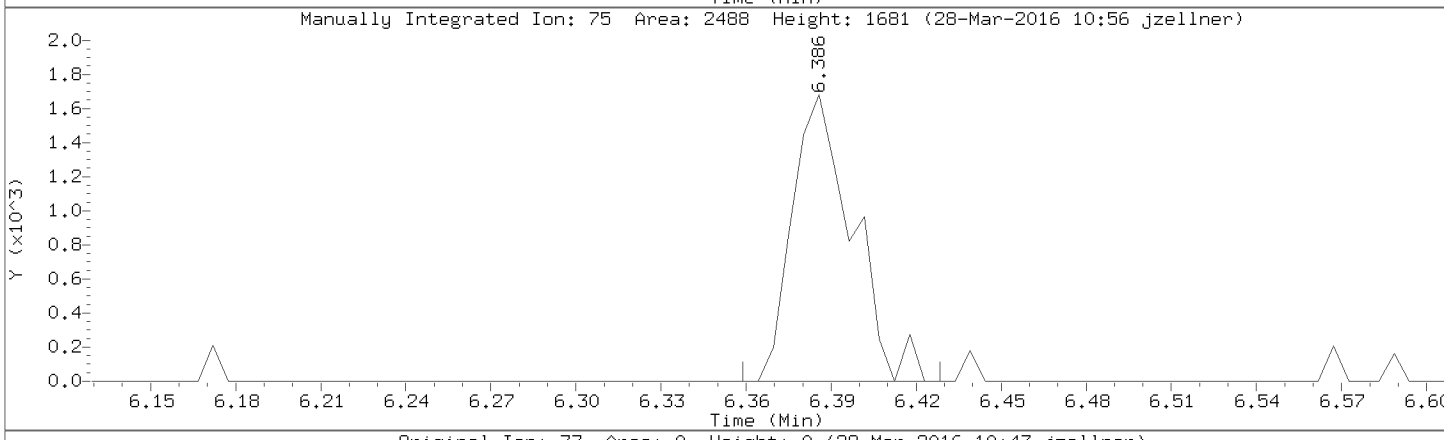
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

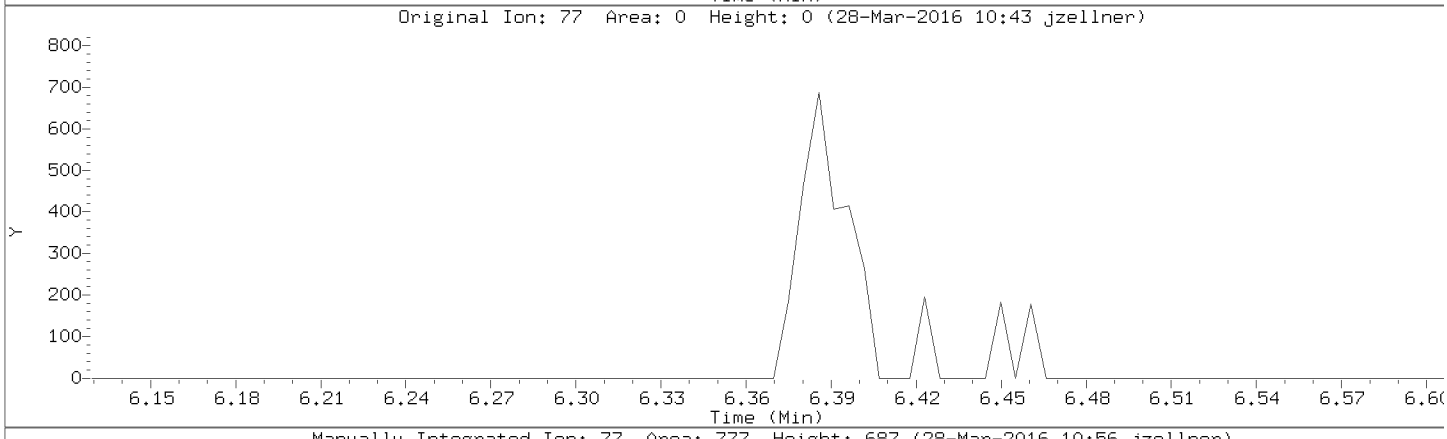


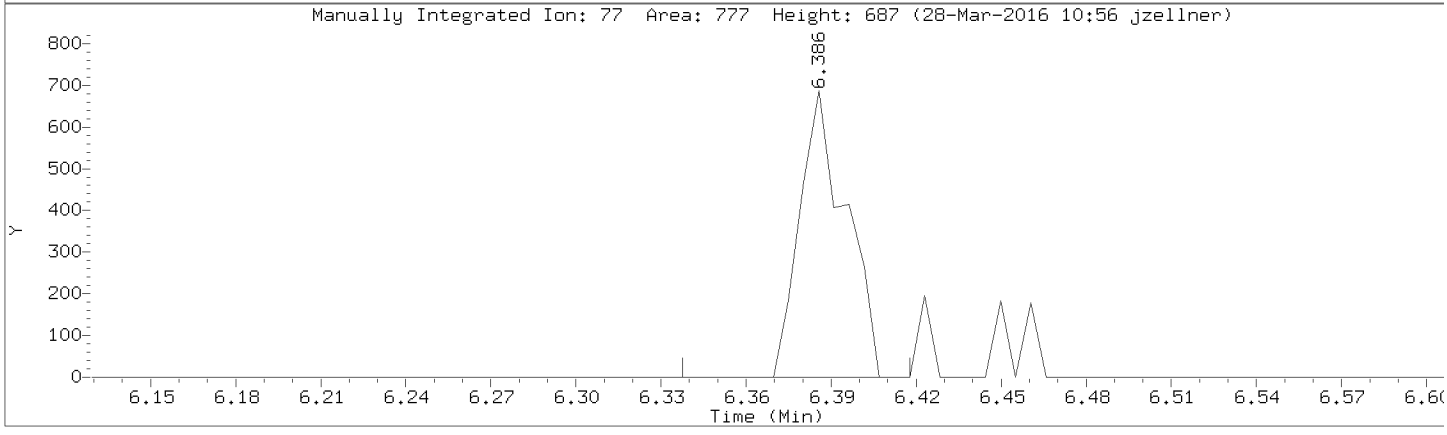
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: trans-1,3-Dichloropropene Review Code: NI
CAS Number: 10061-02-6



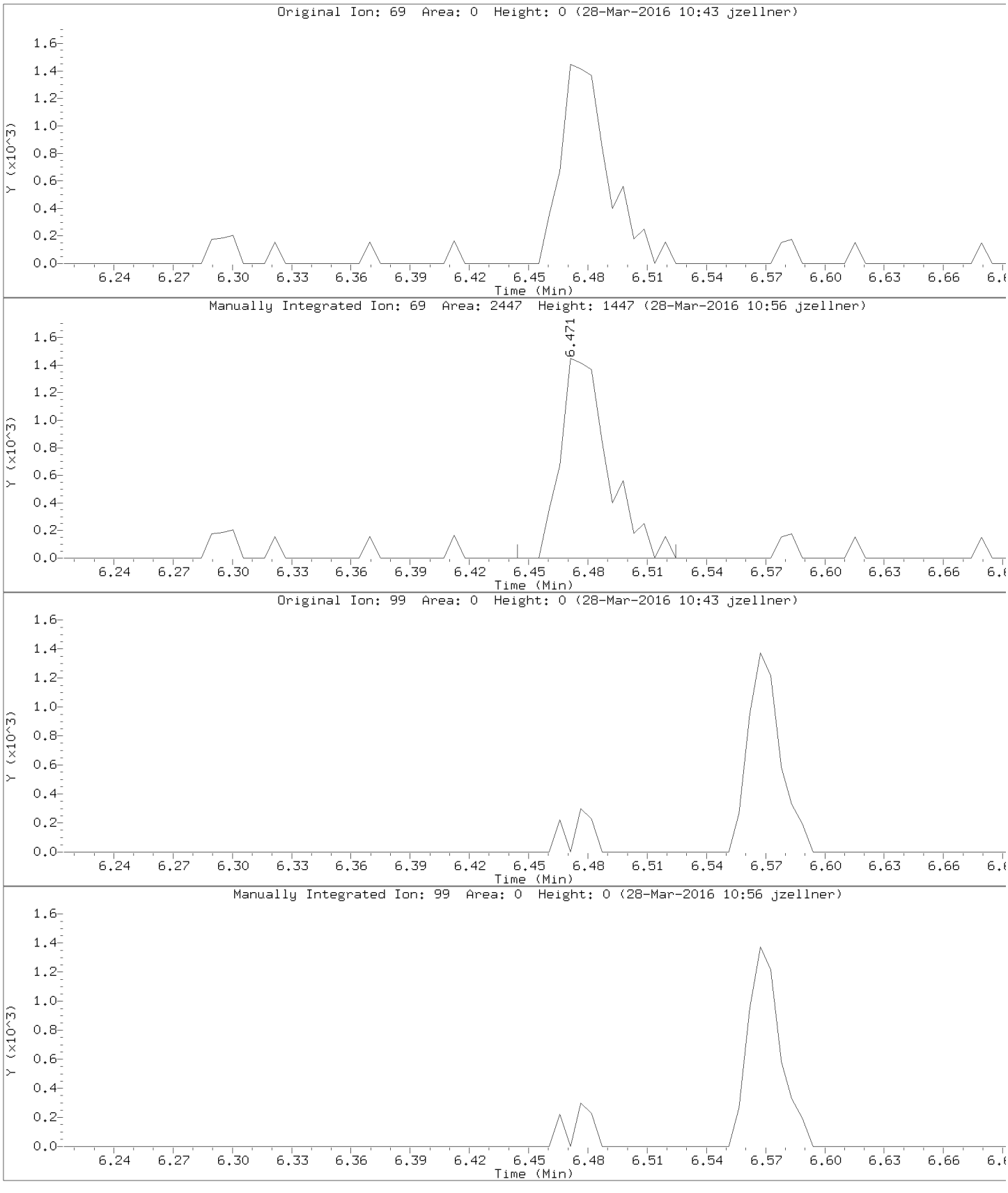




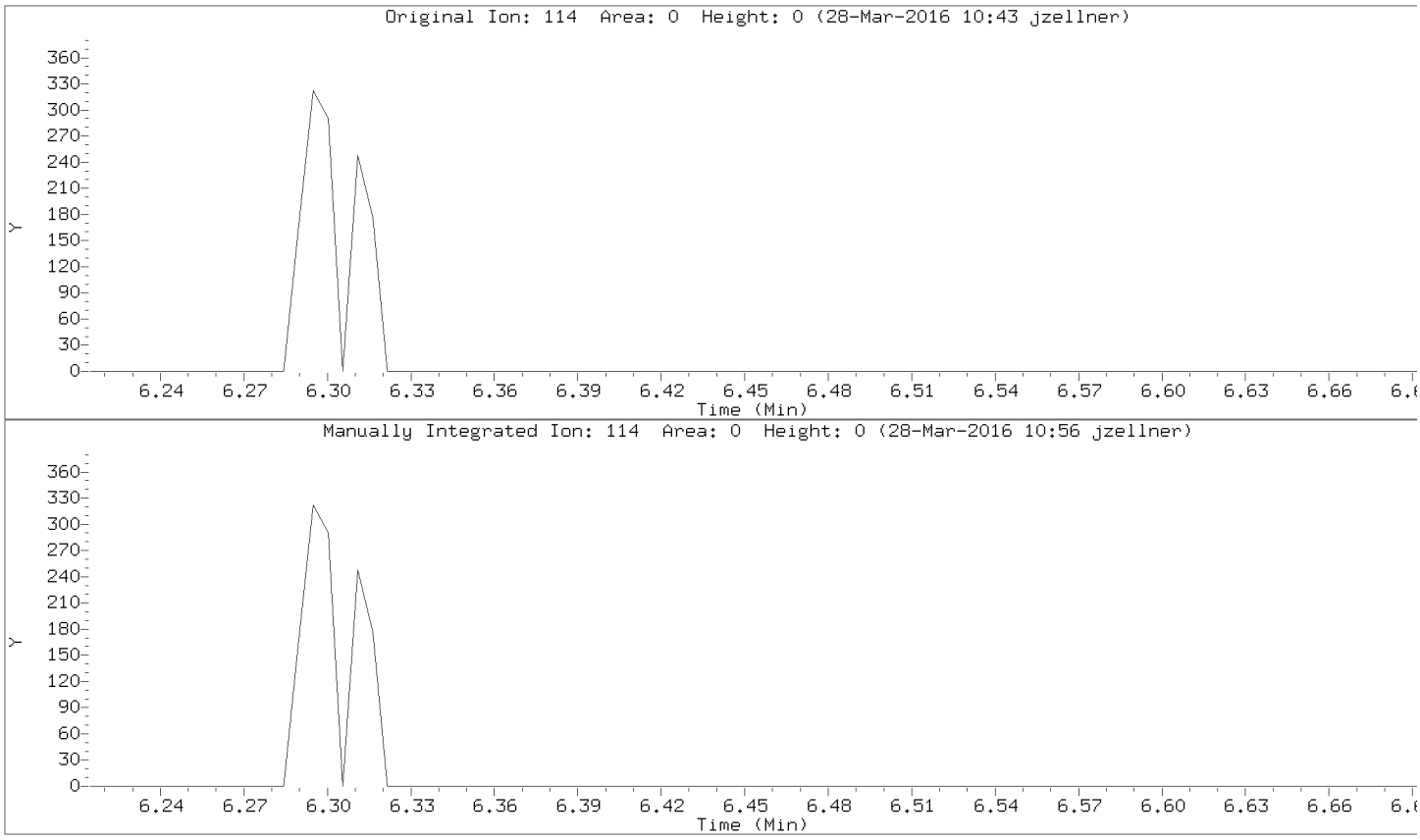


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

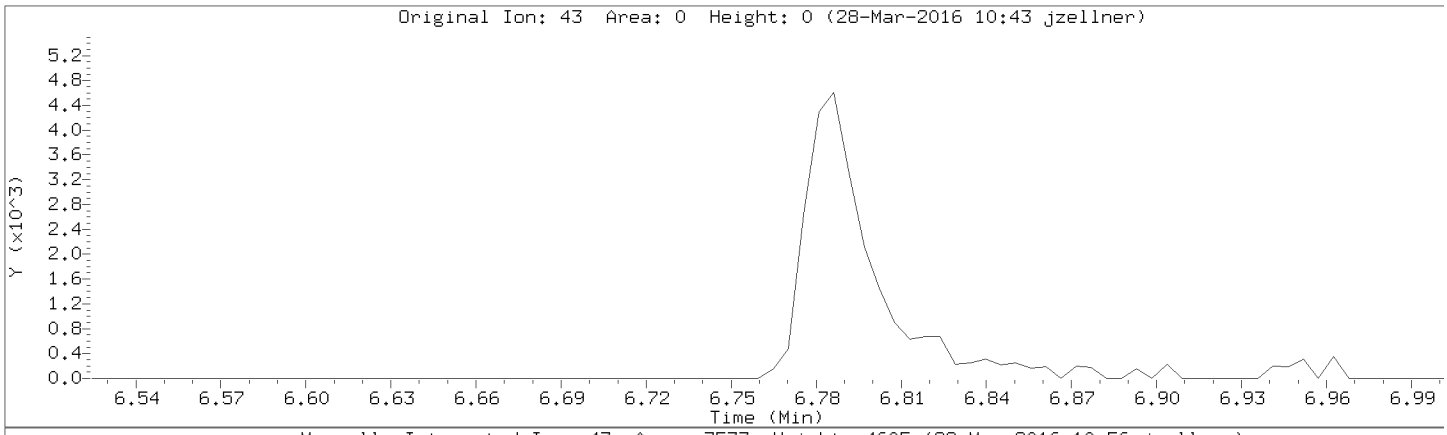


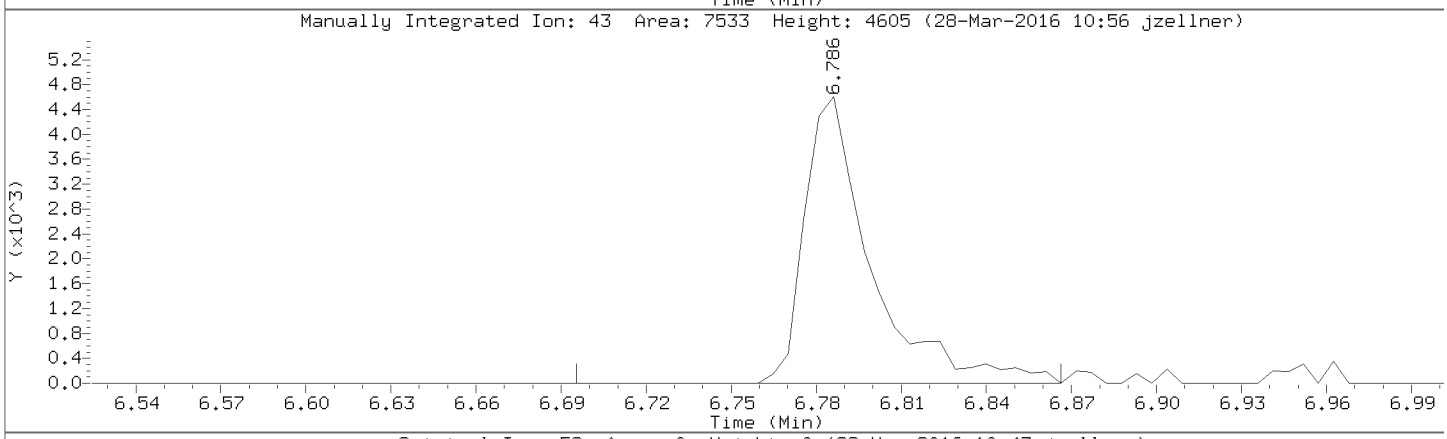
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

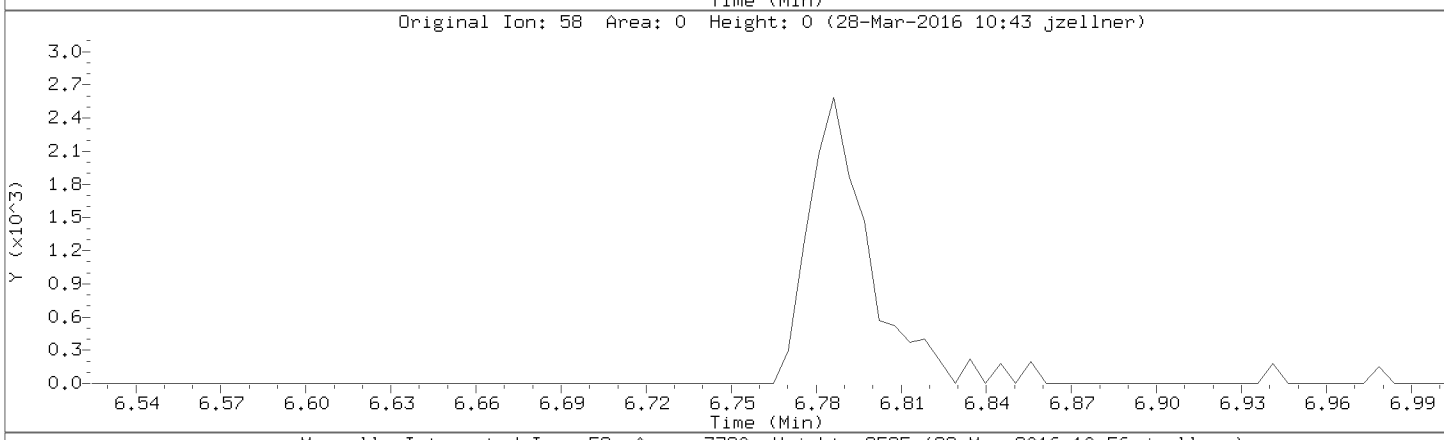


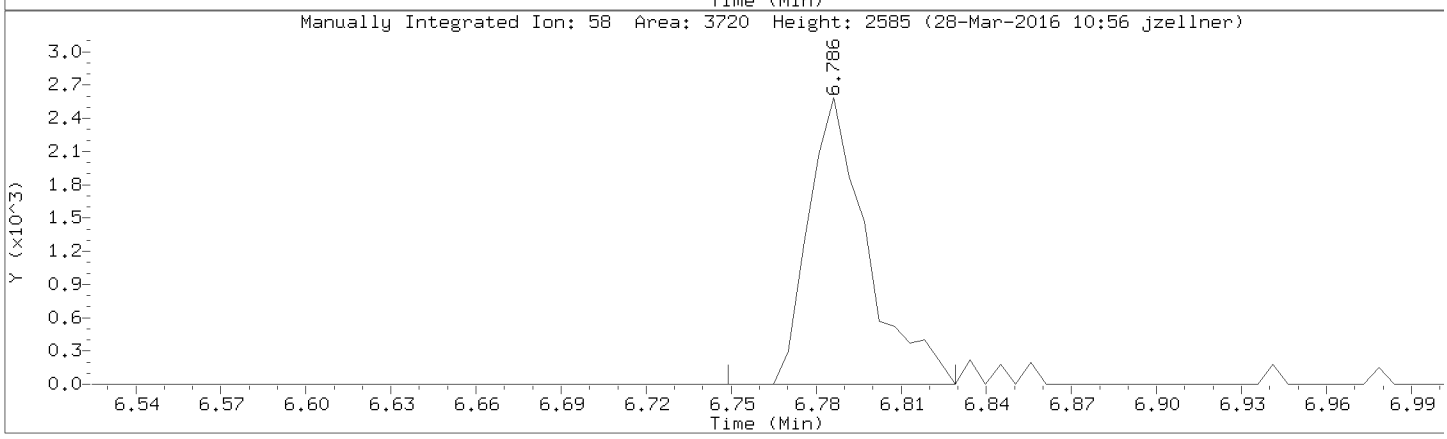
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 2-Hexanone Review Code: NI
CAS Number: 591-78-6

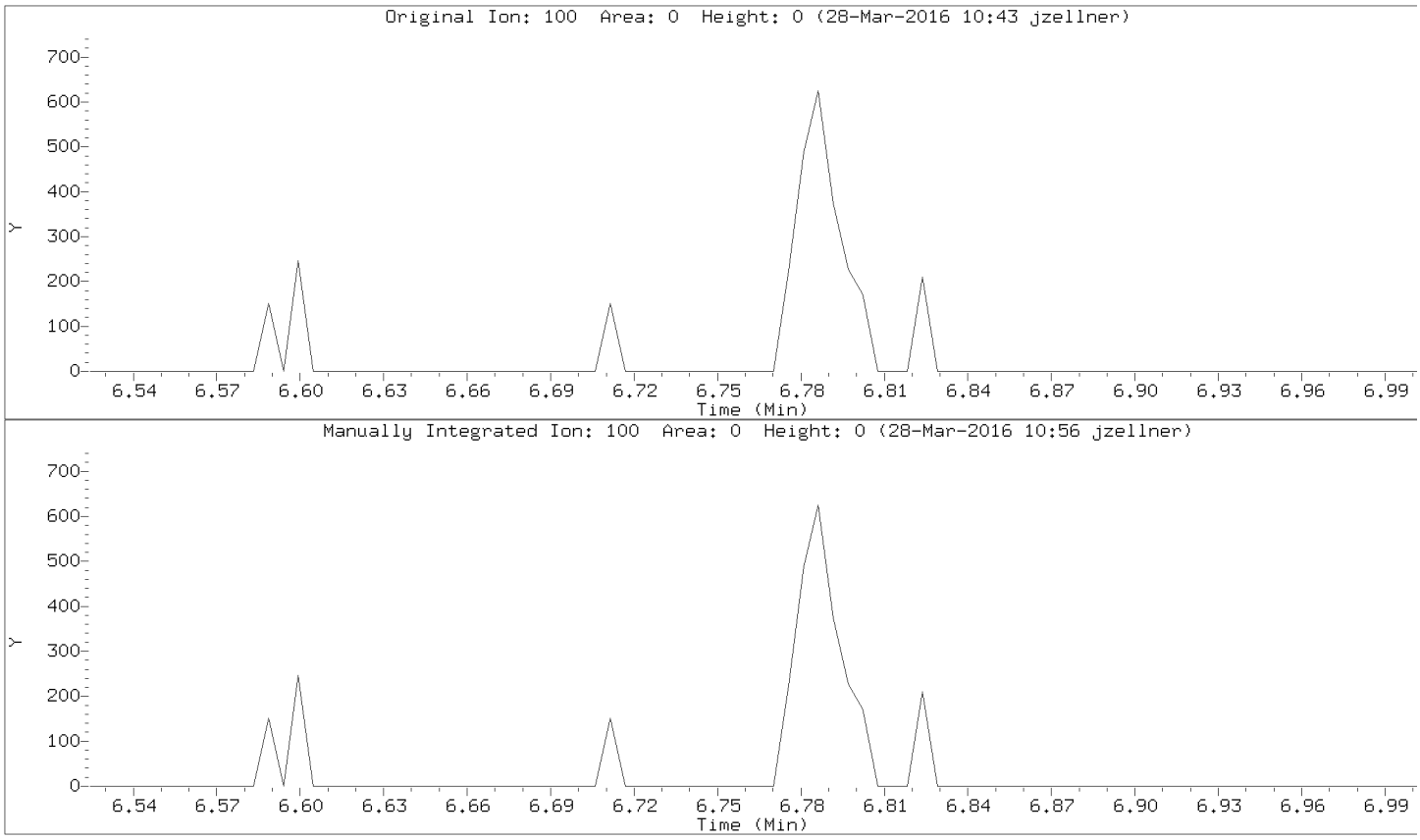






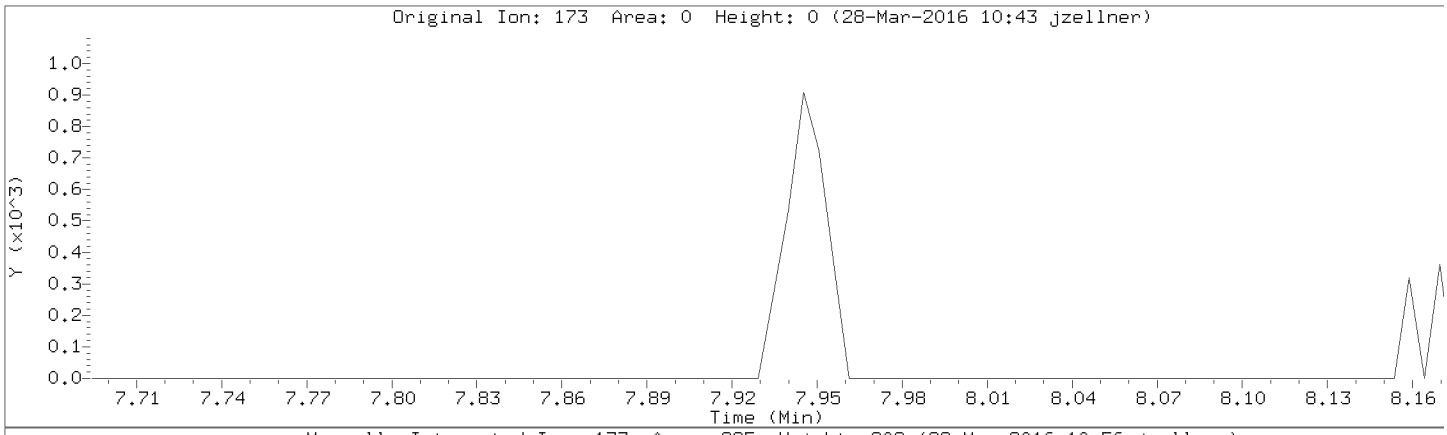


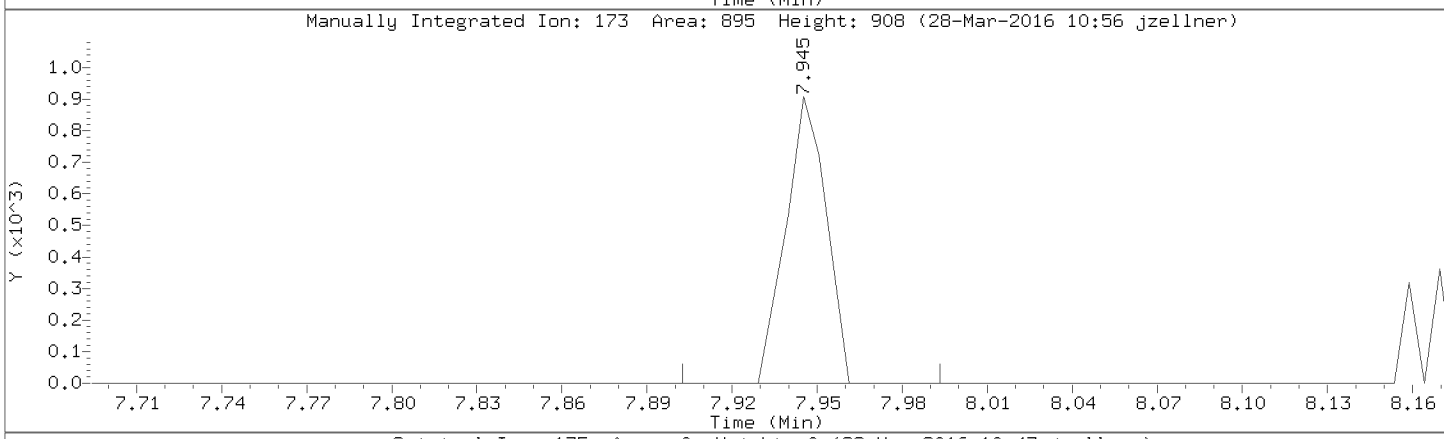
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

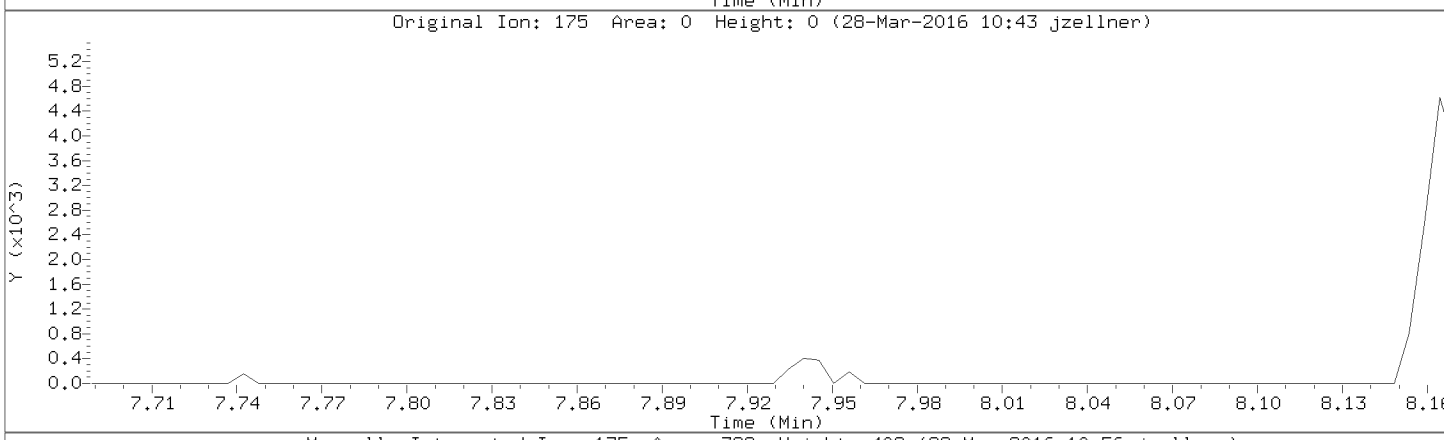


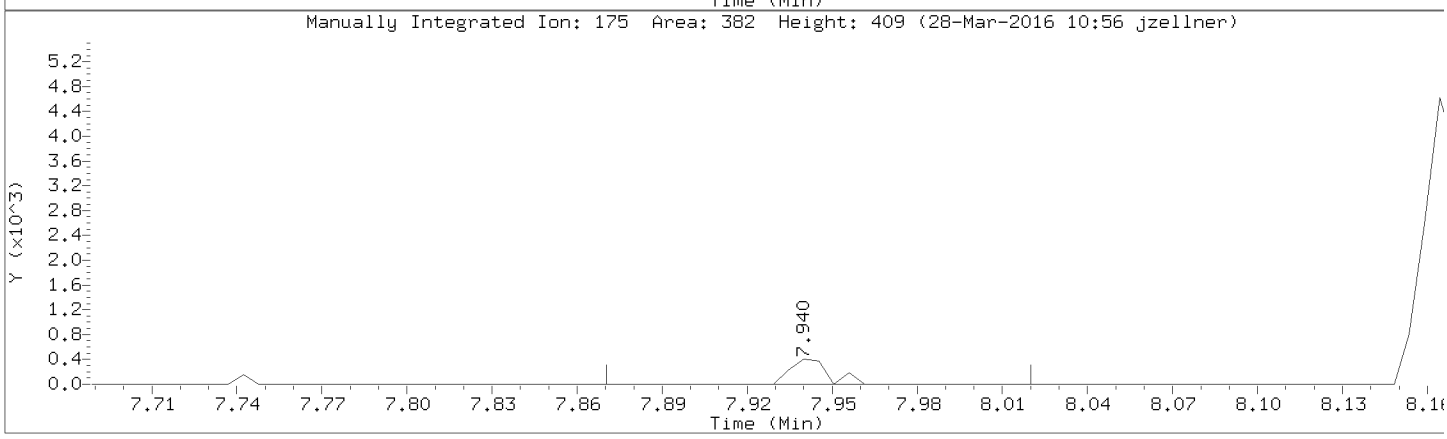
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

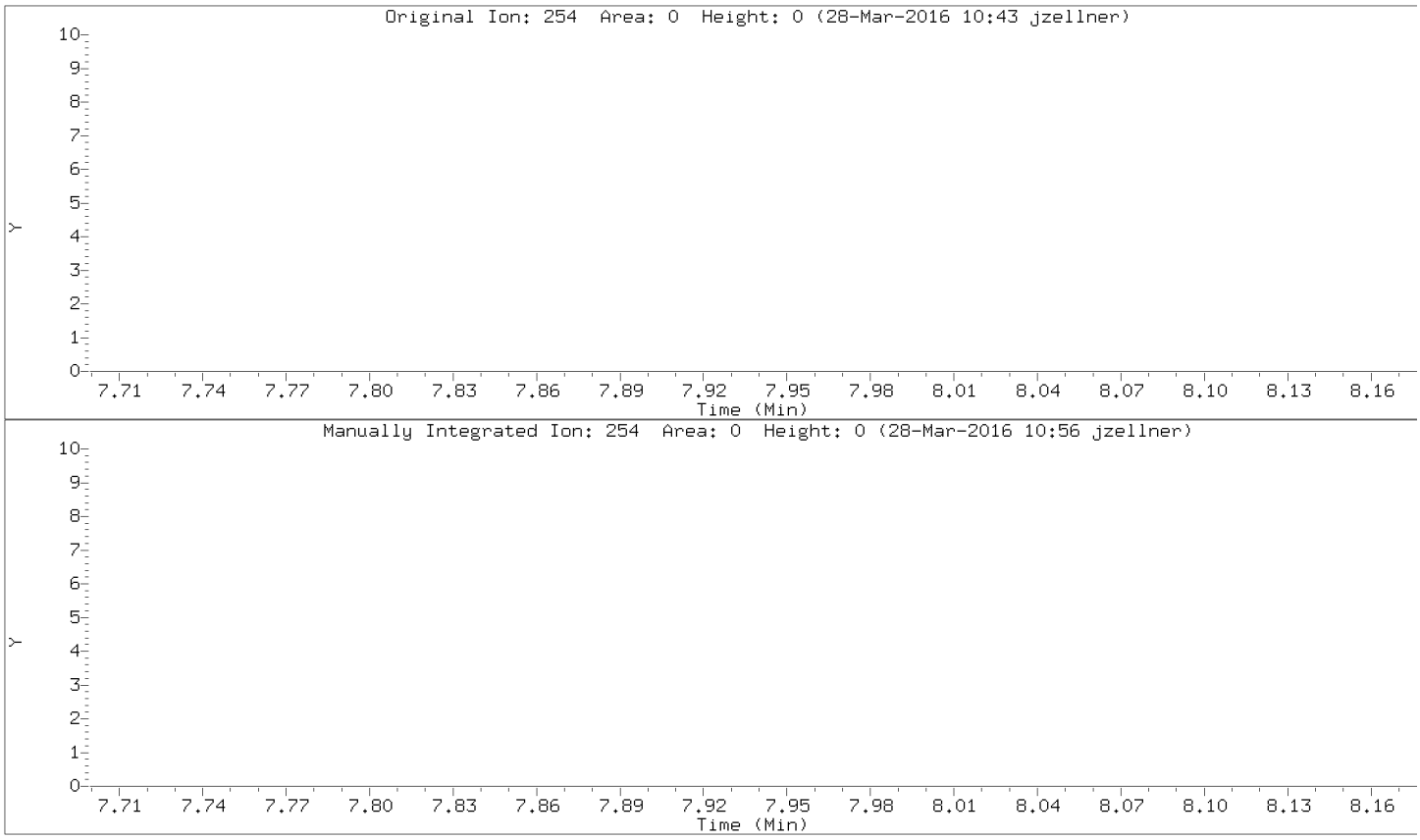






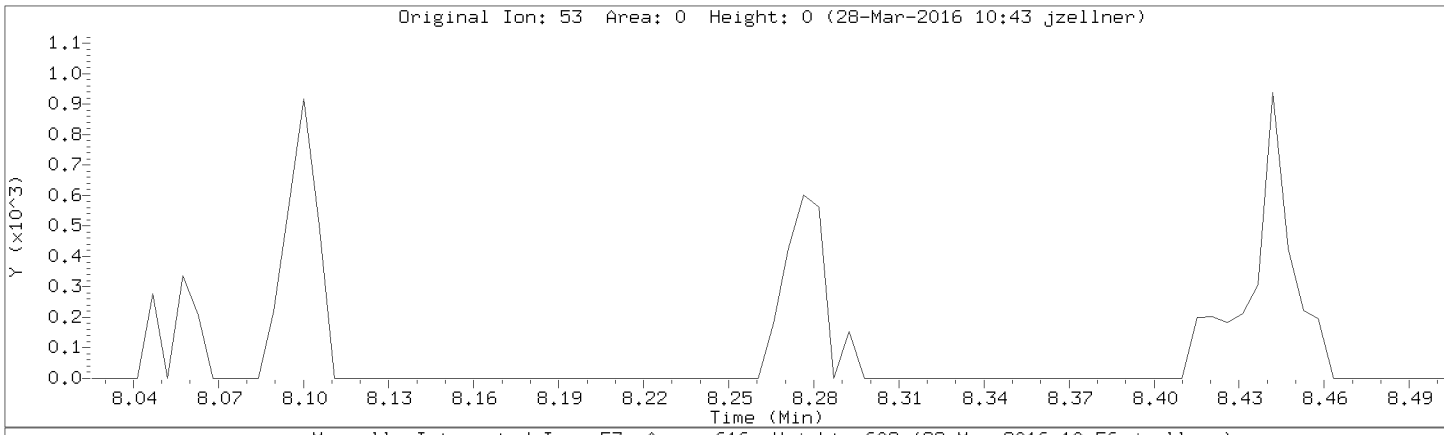


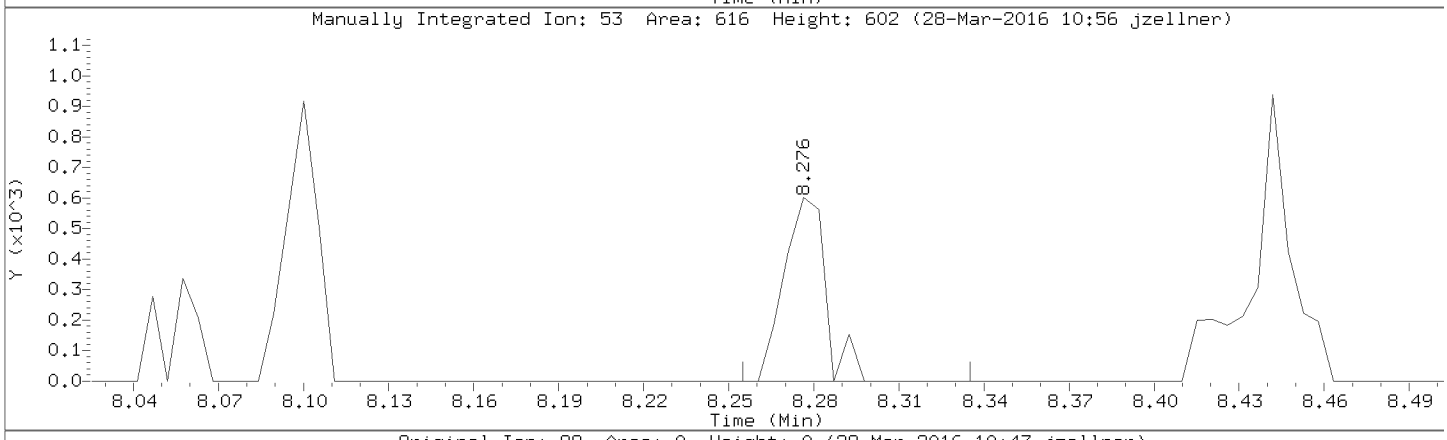
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

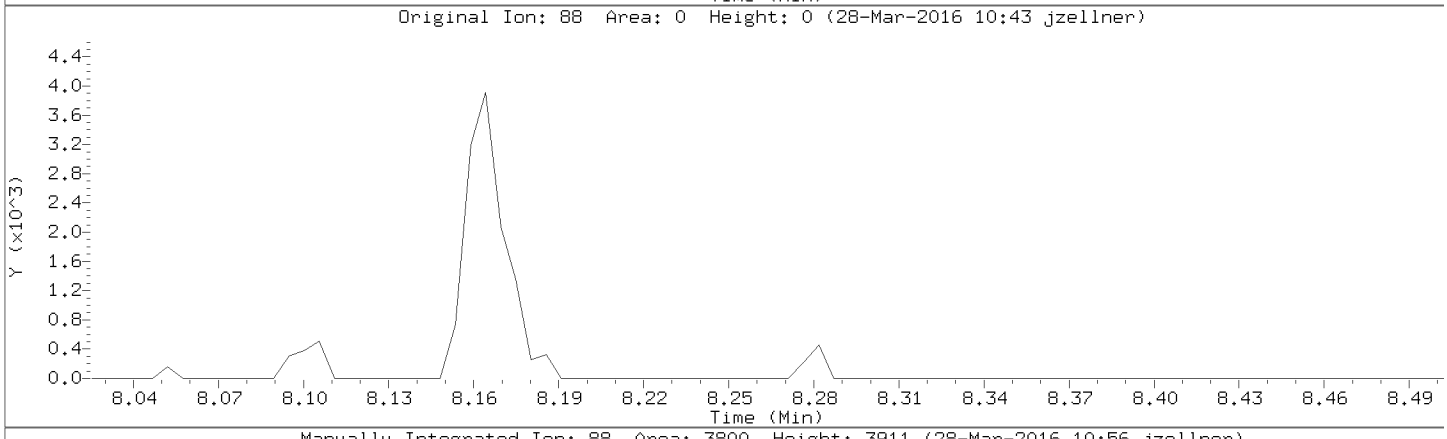


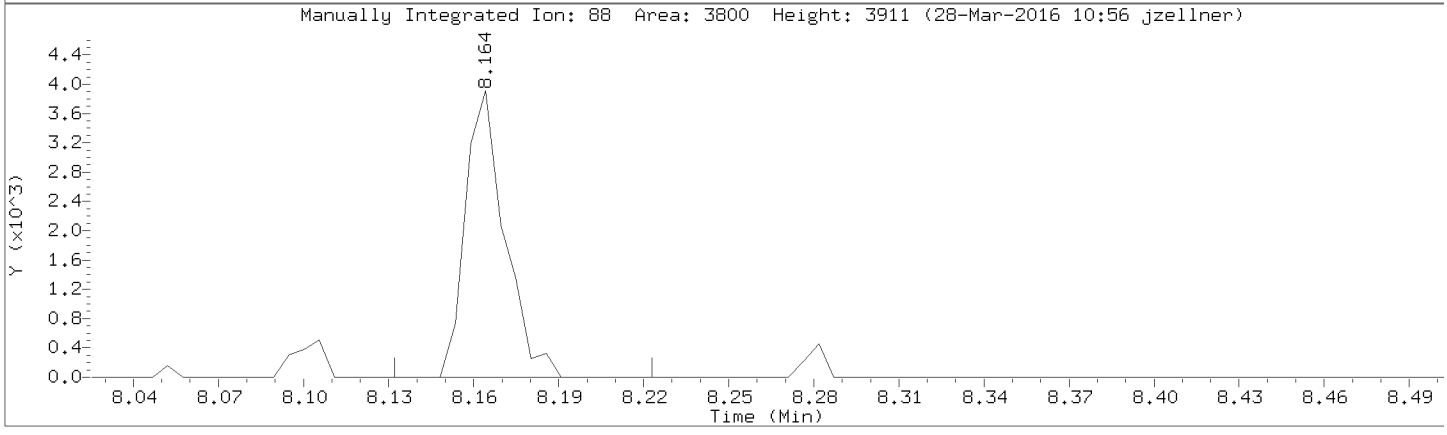
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: trans-1,4-Dichloro-2-butene Review Code: NI
CAS Number:

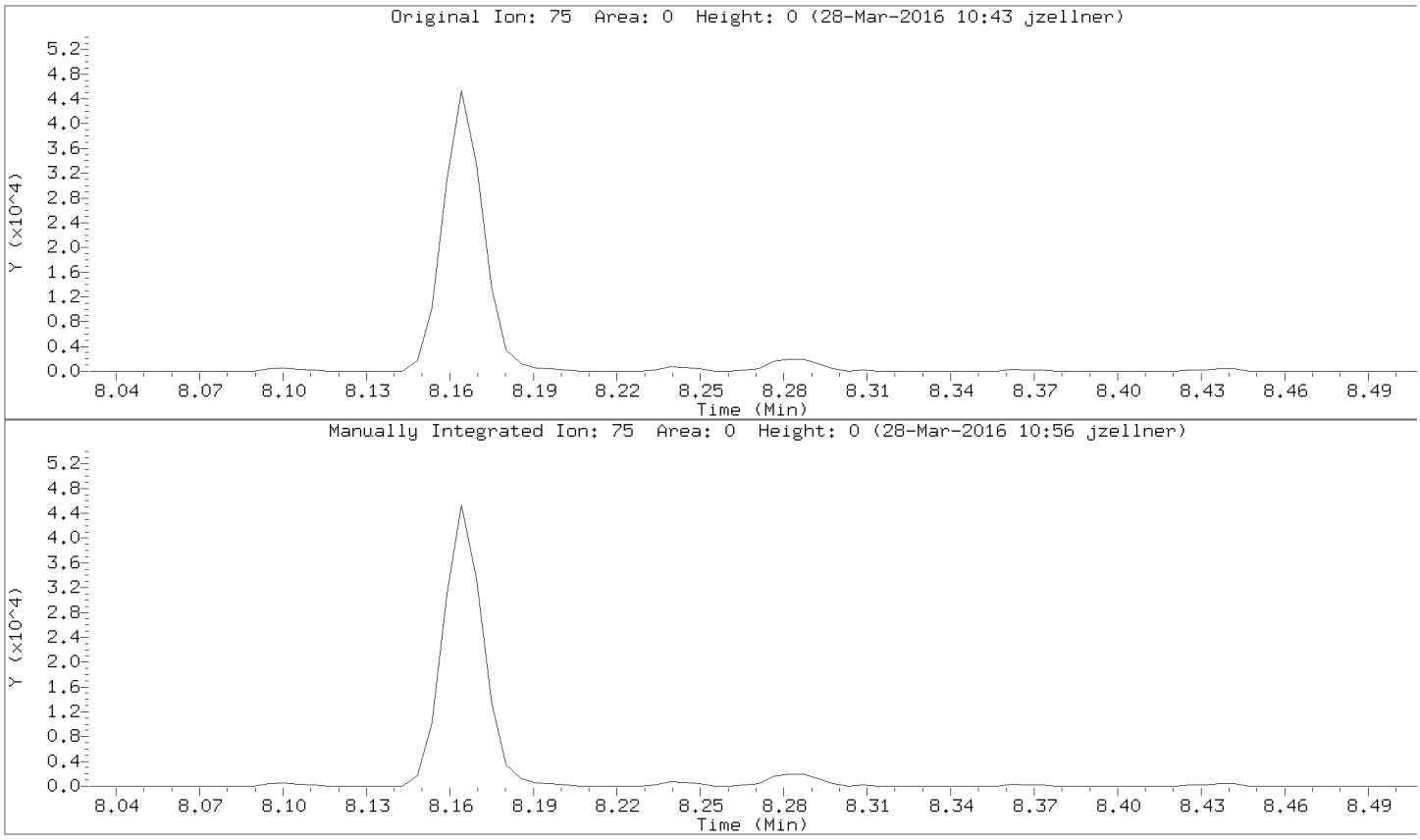






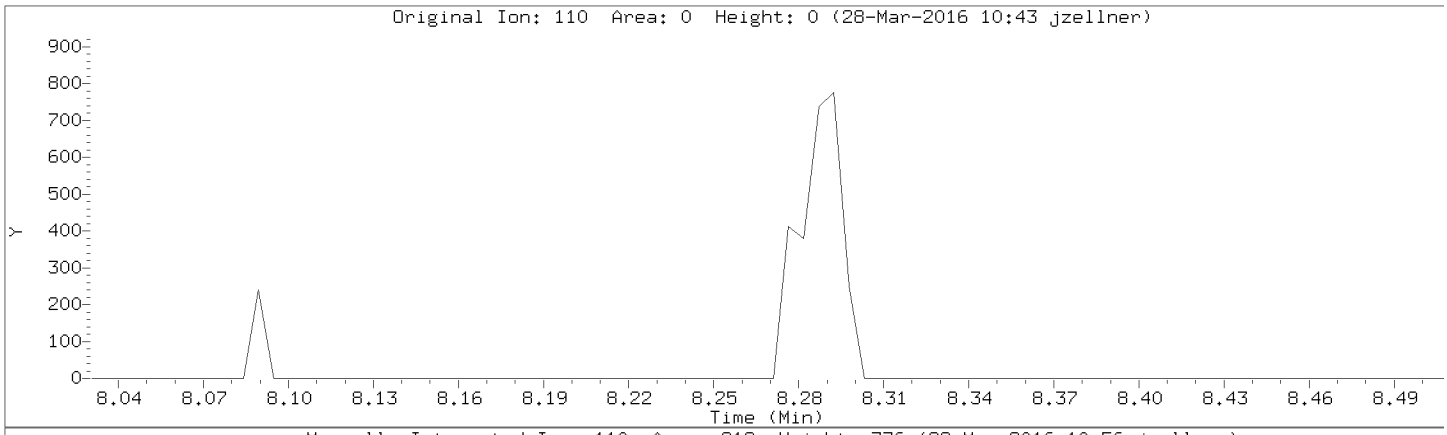


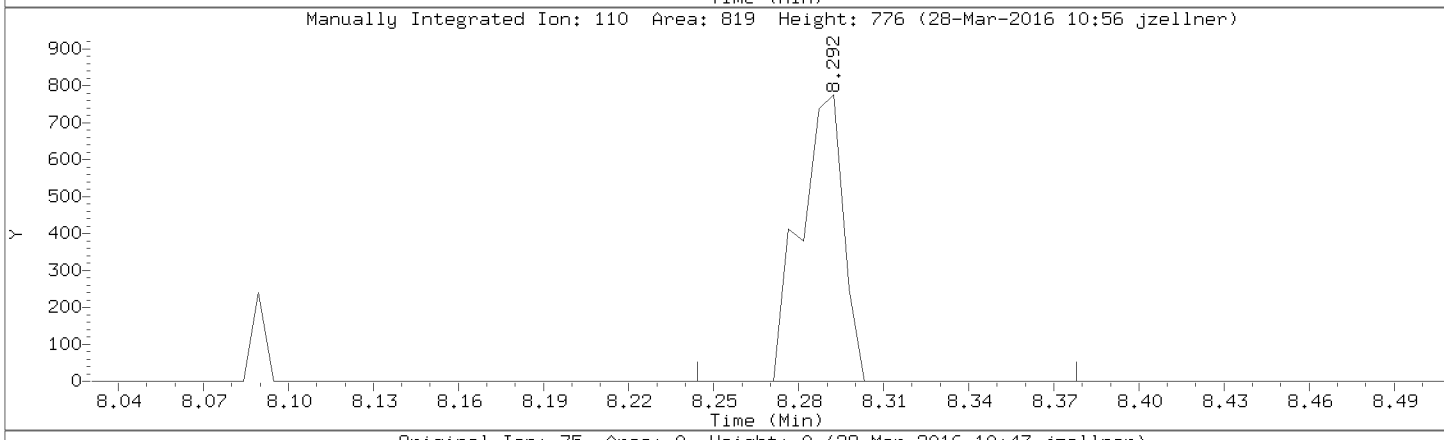
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

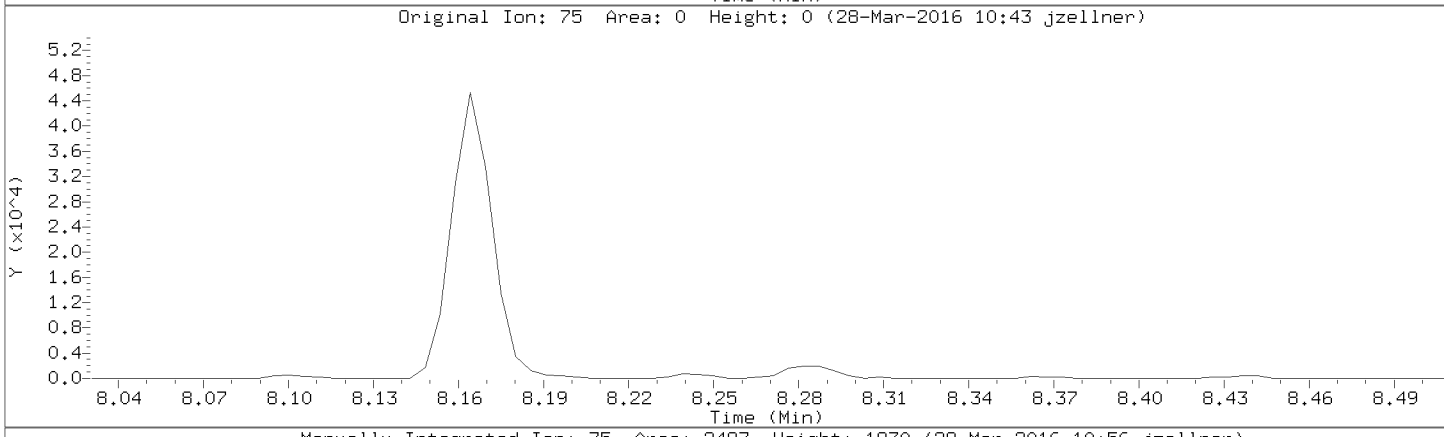


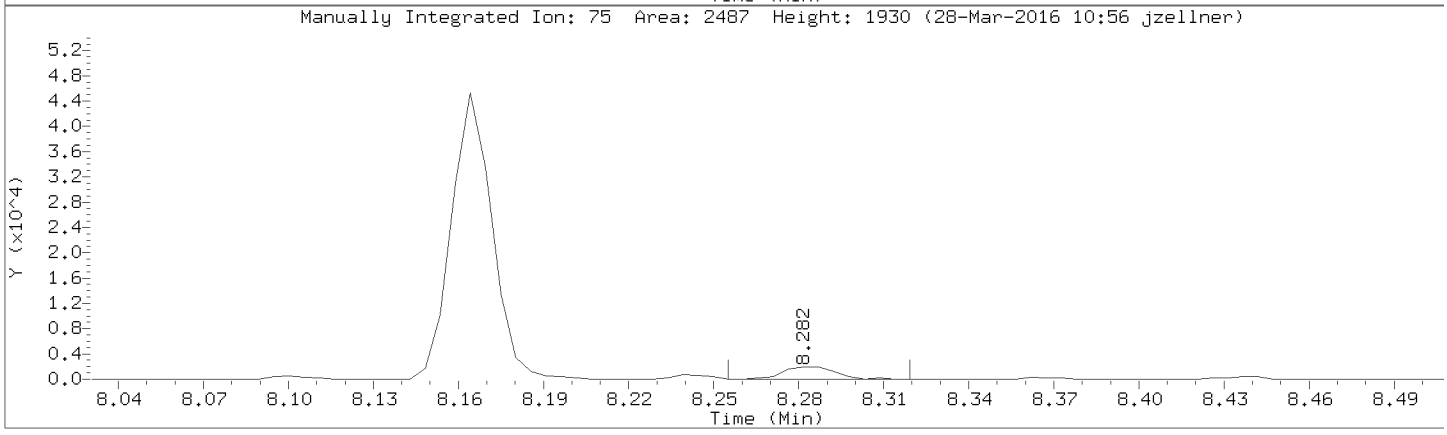
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2,3-Trichloropropane Review Code: NI
CAS Number: 96-18-4

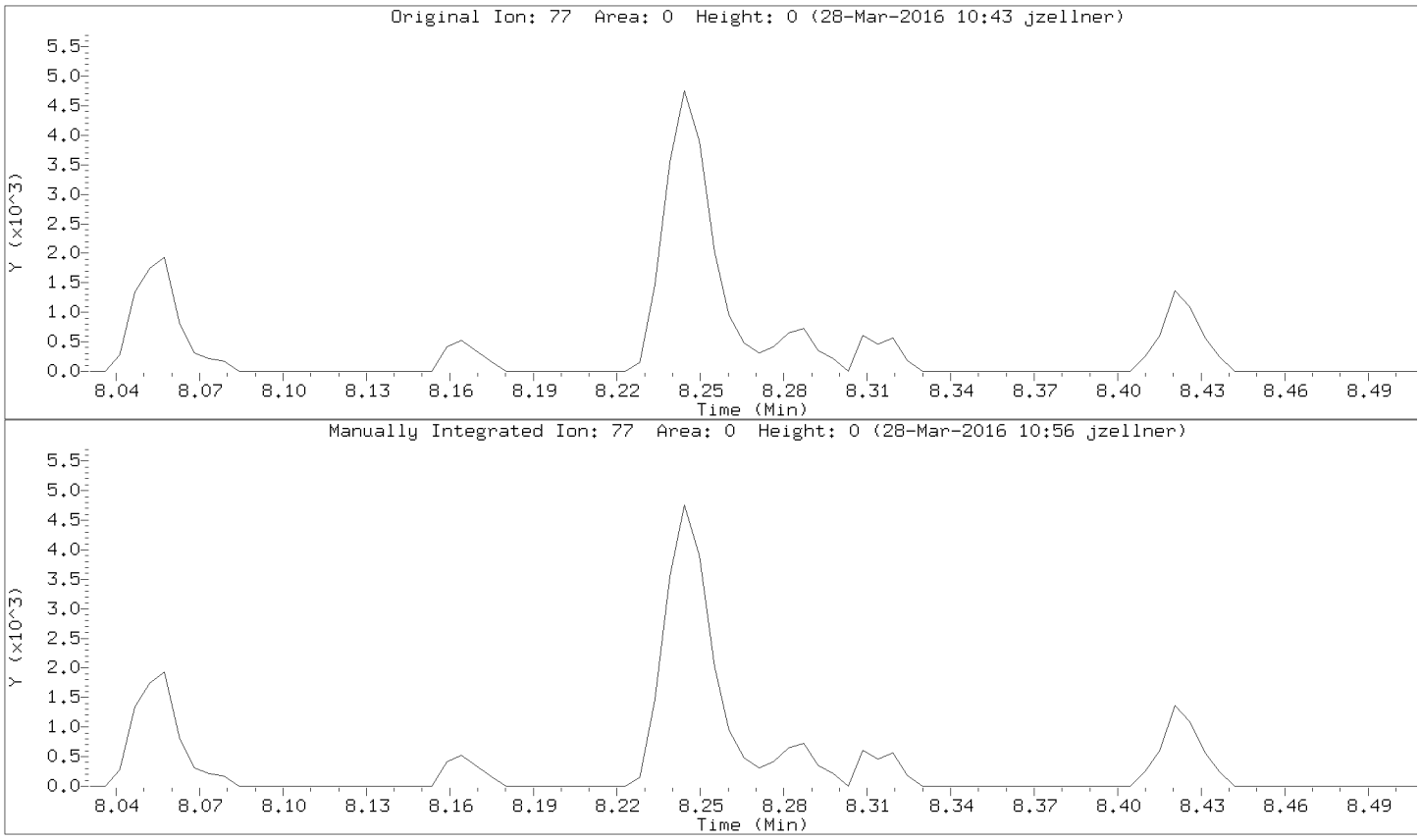






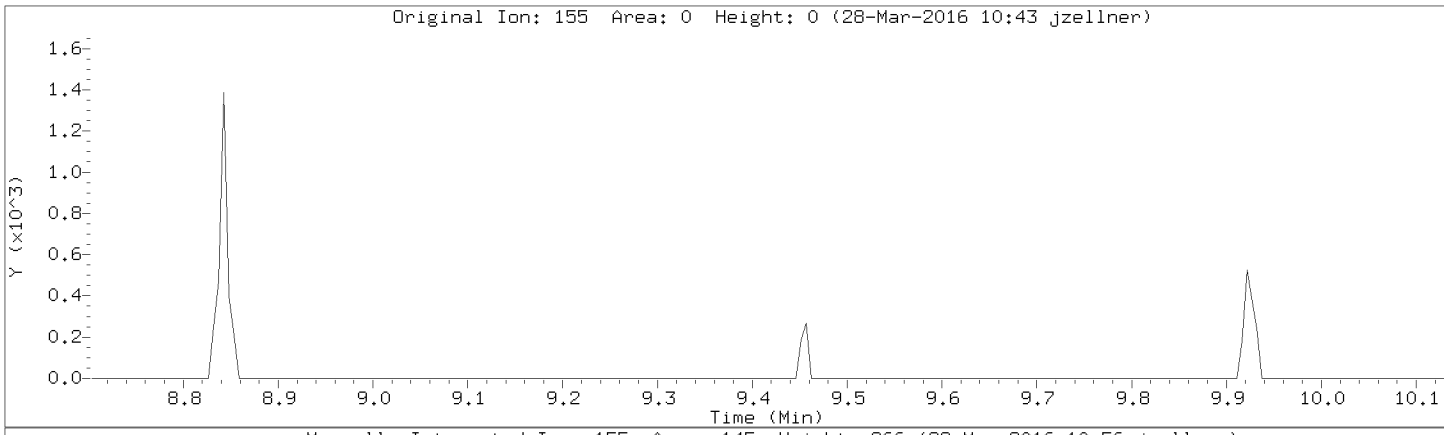


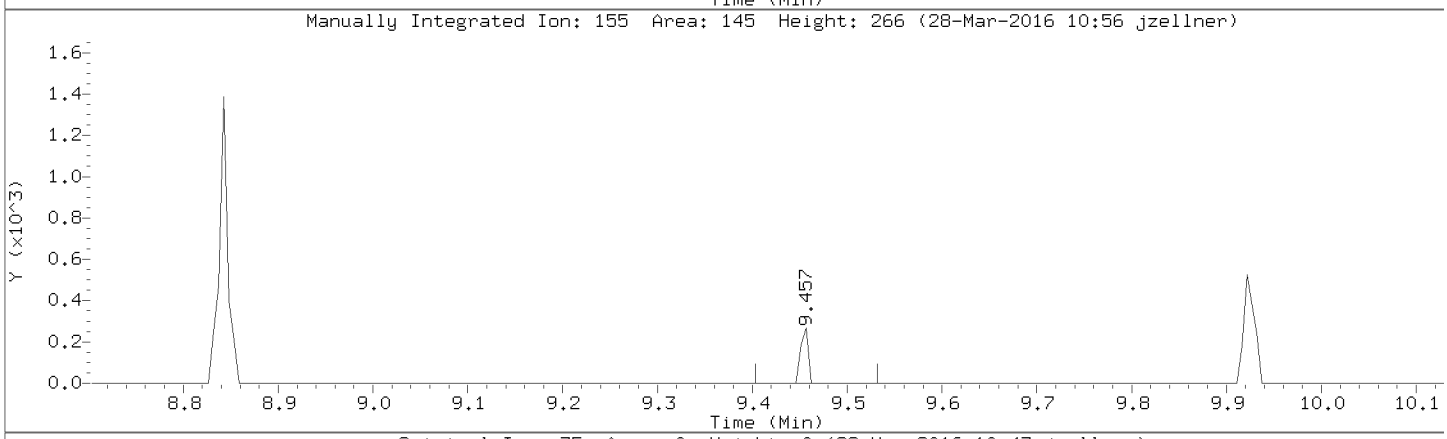
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

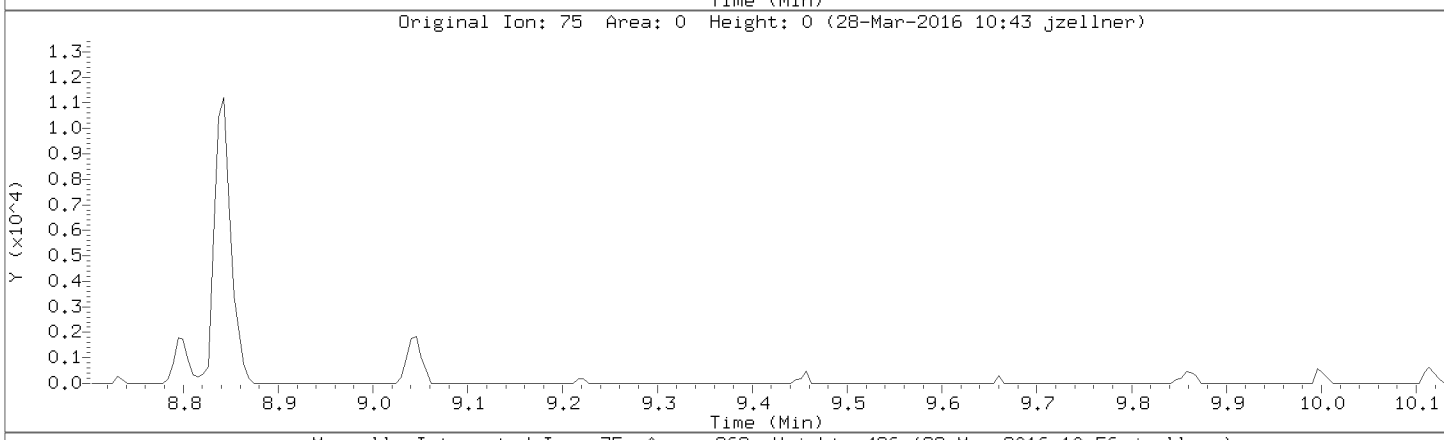


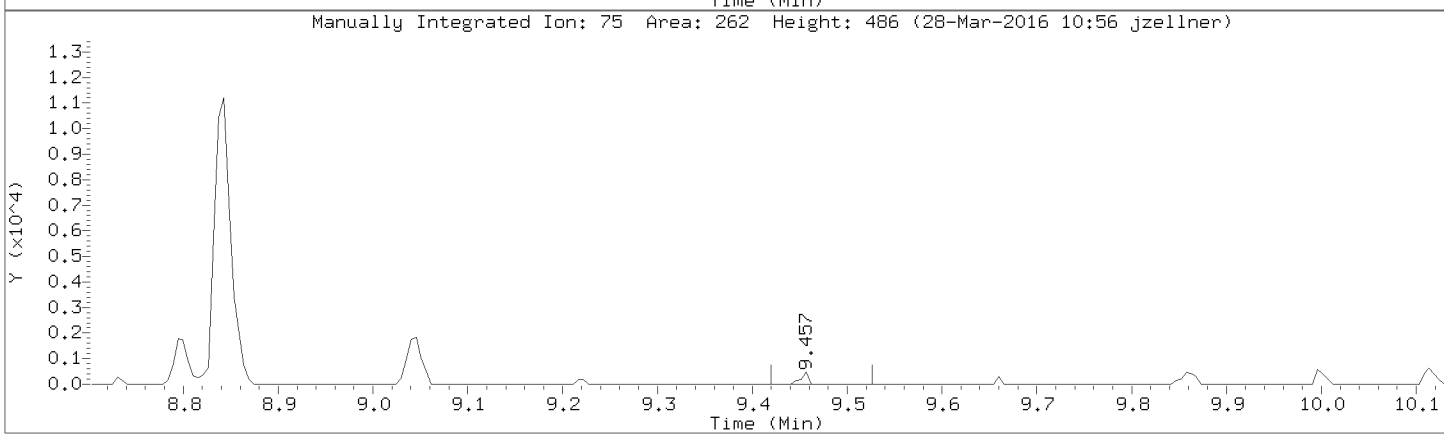
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8

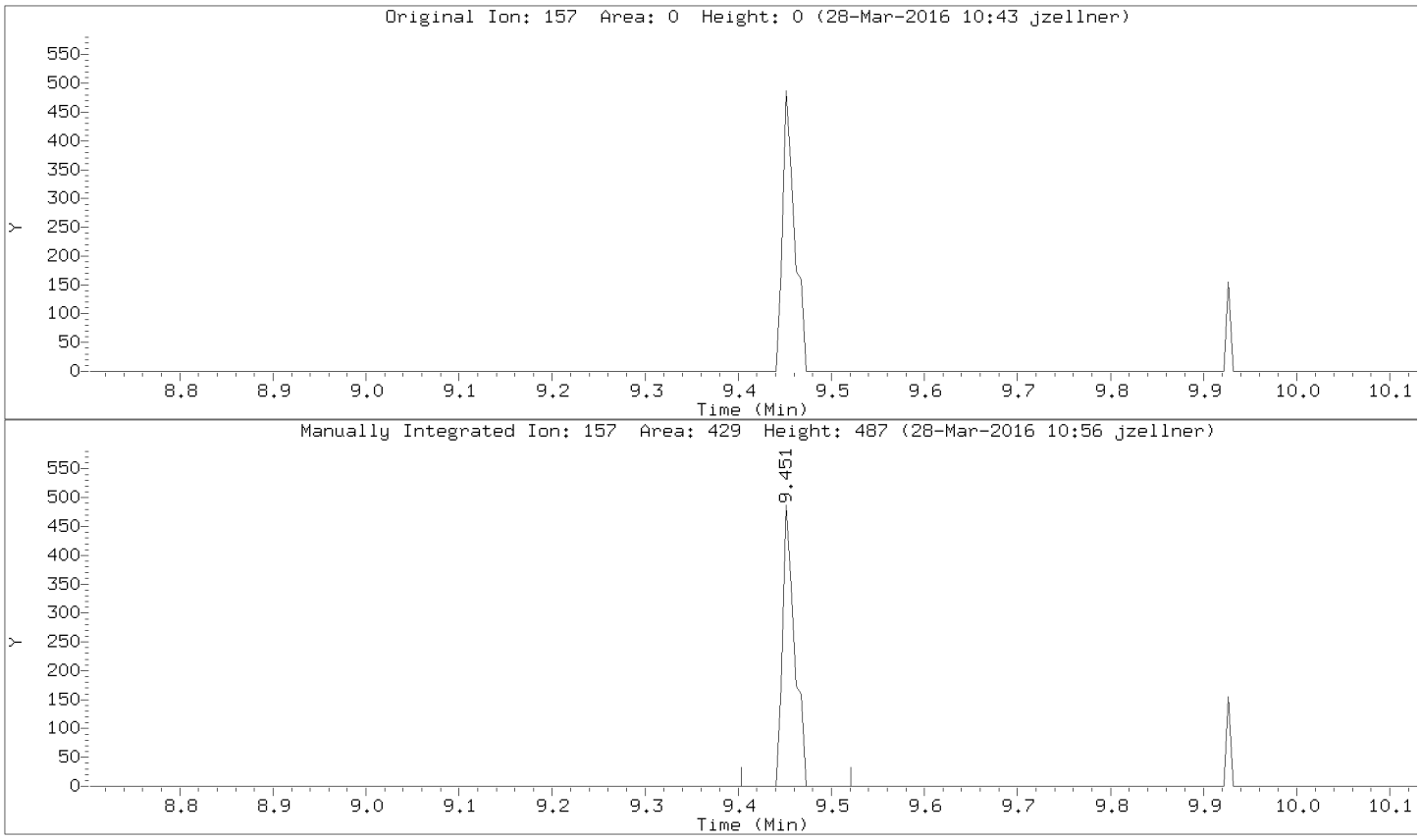






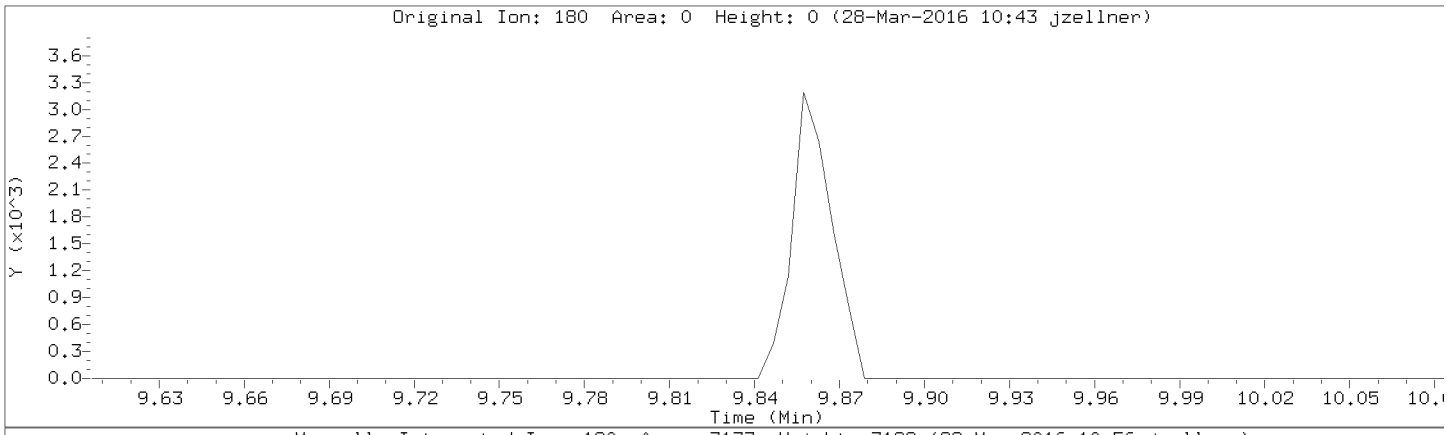


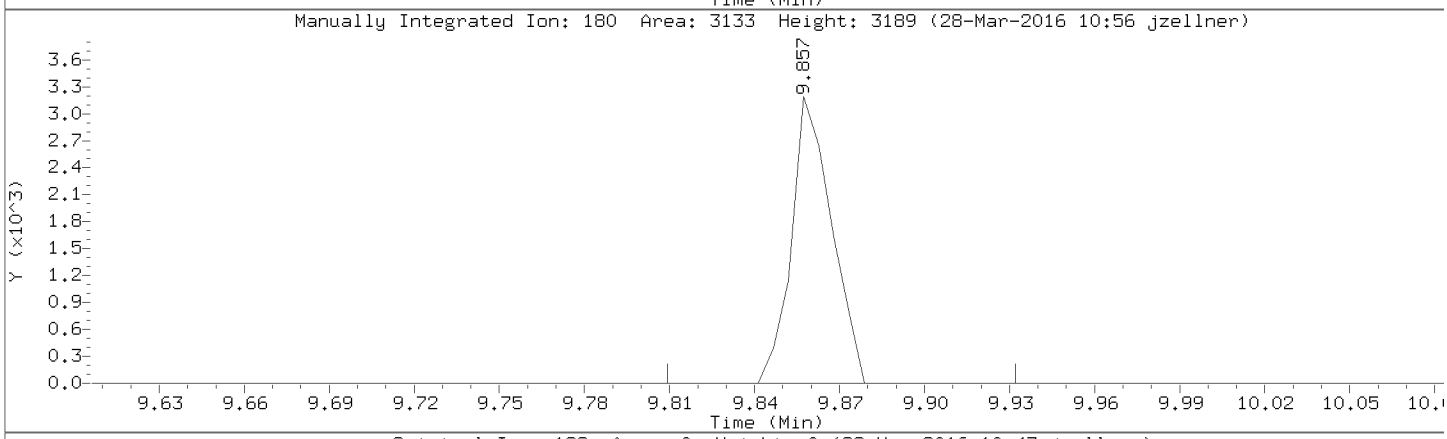
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

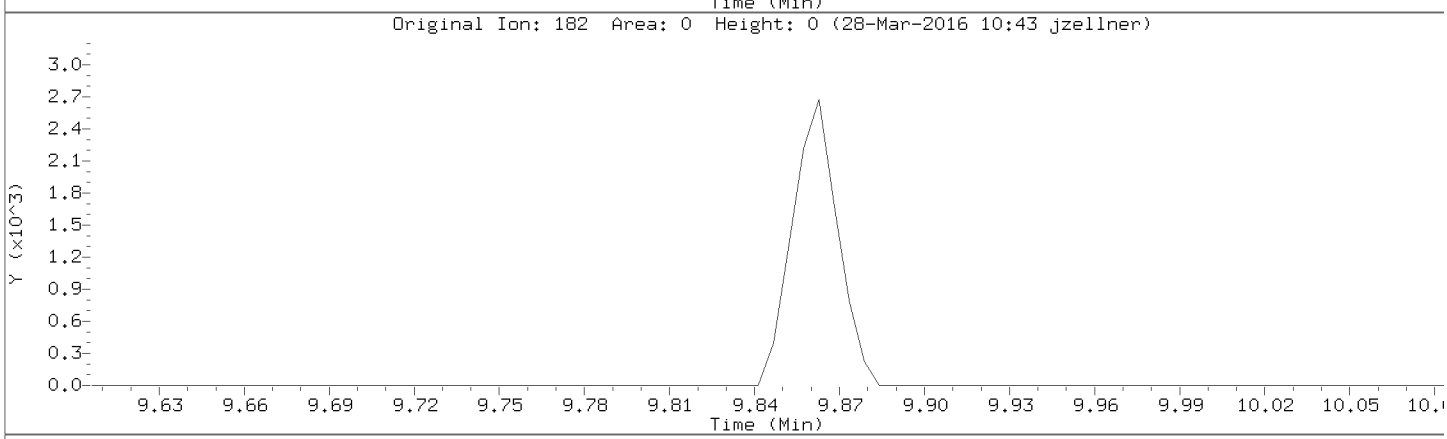


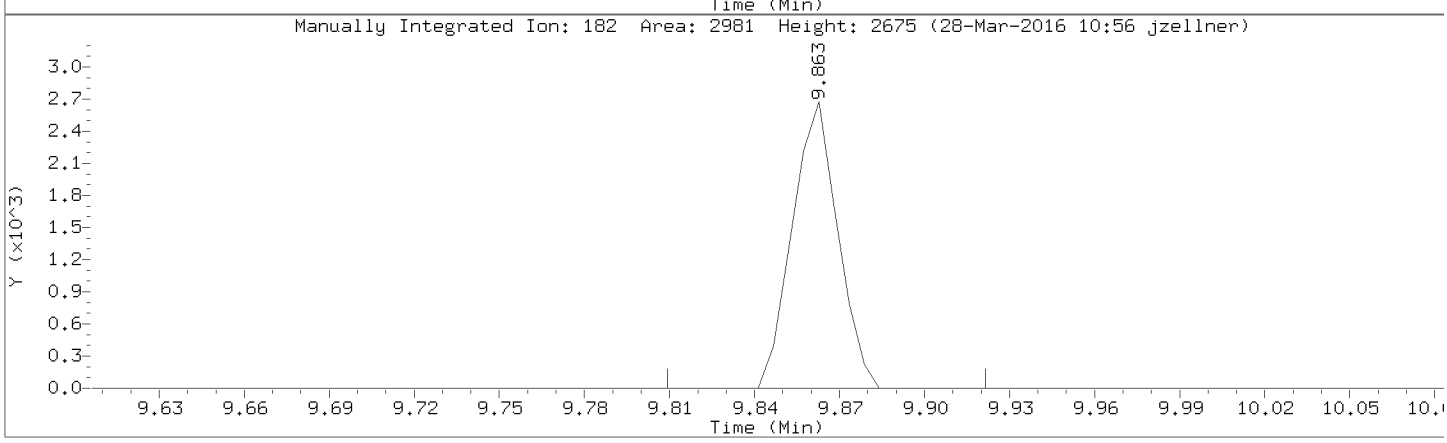
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2,4-Trichlorobenzene Review Code: NI
CAS Number: 120-82-1

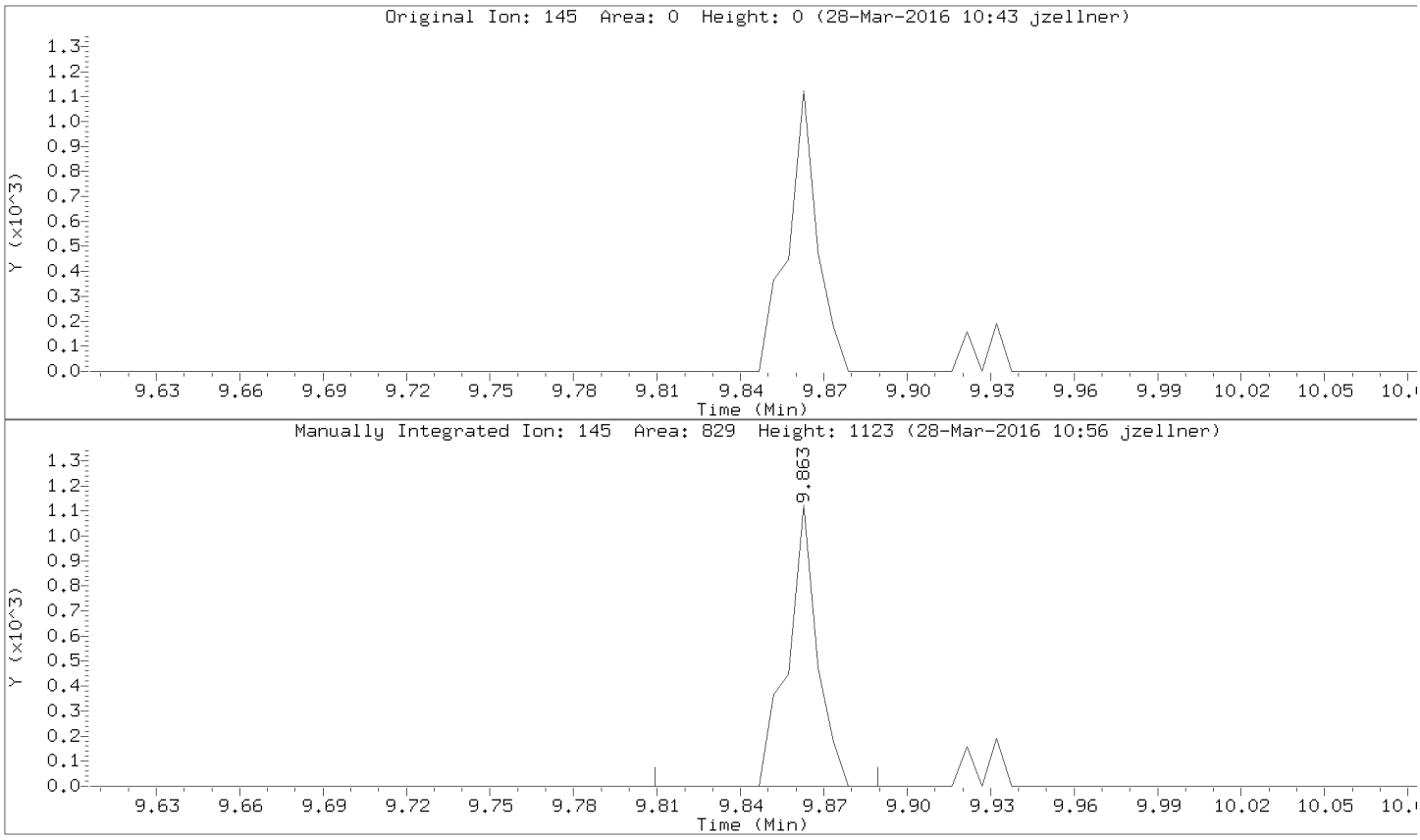






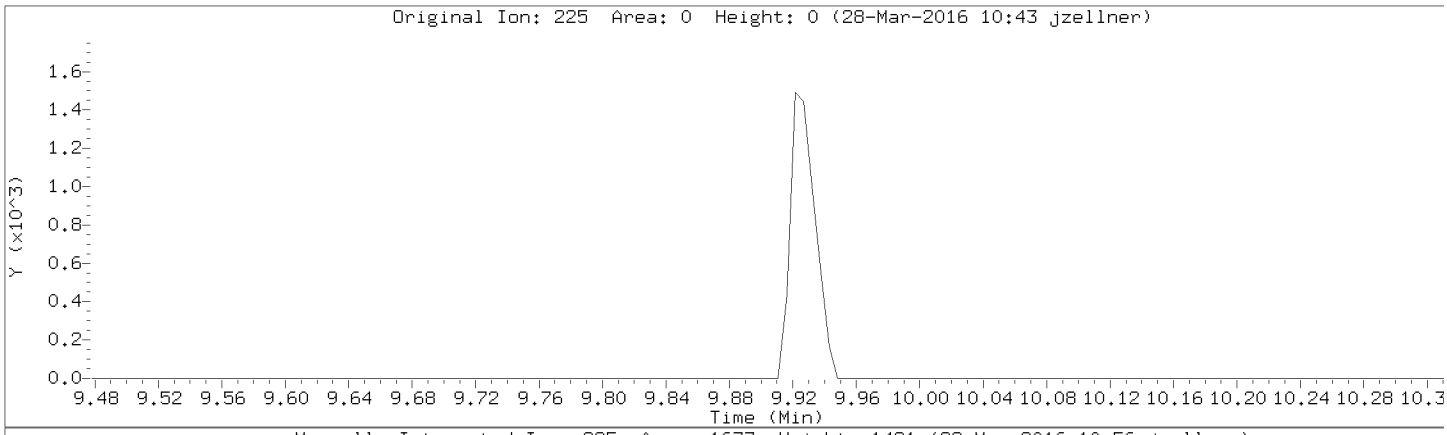


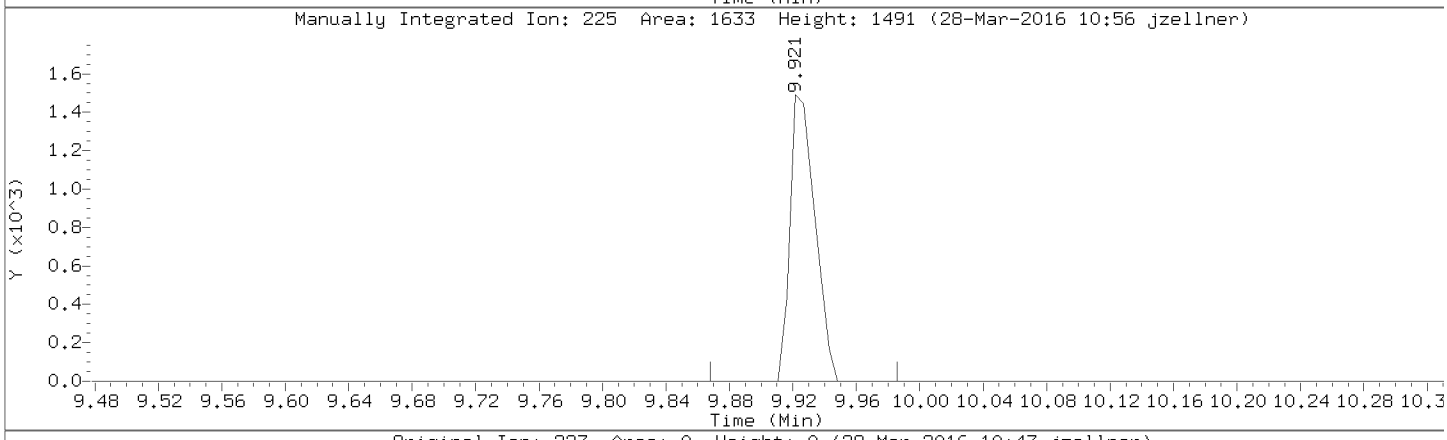
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

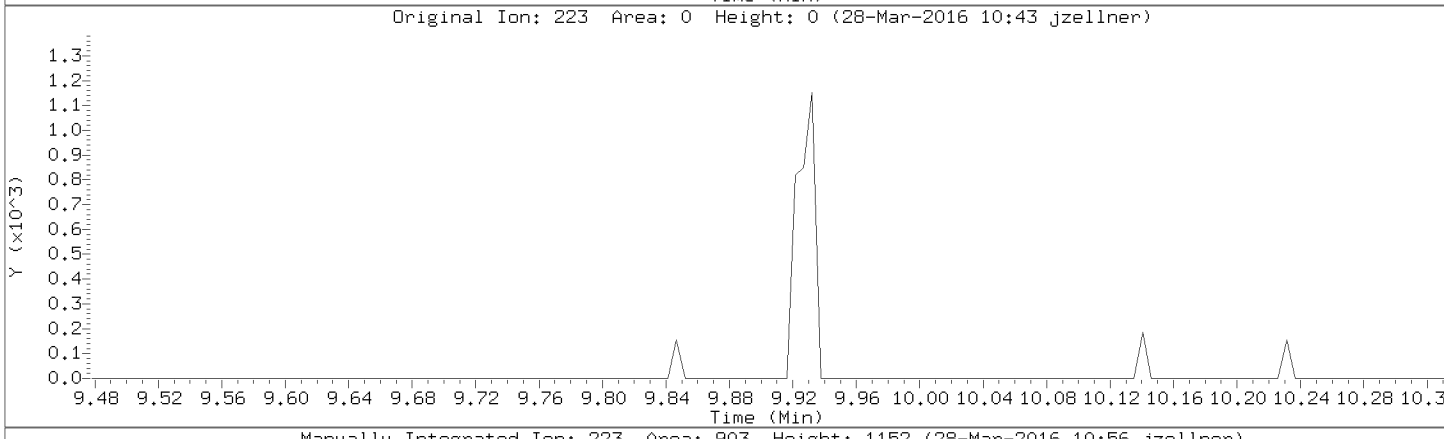


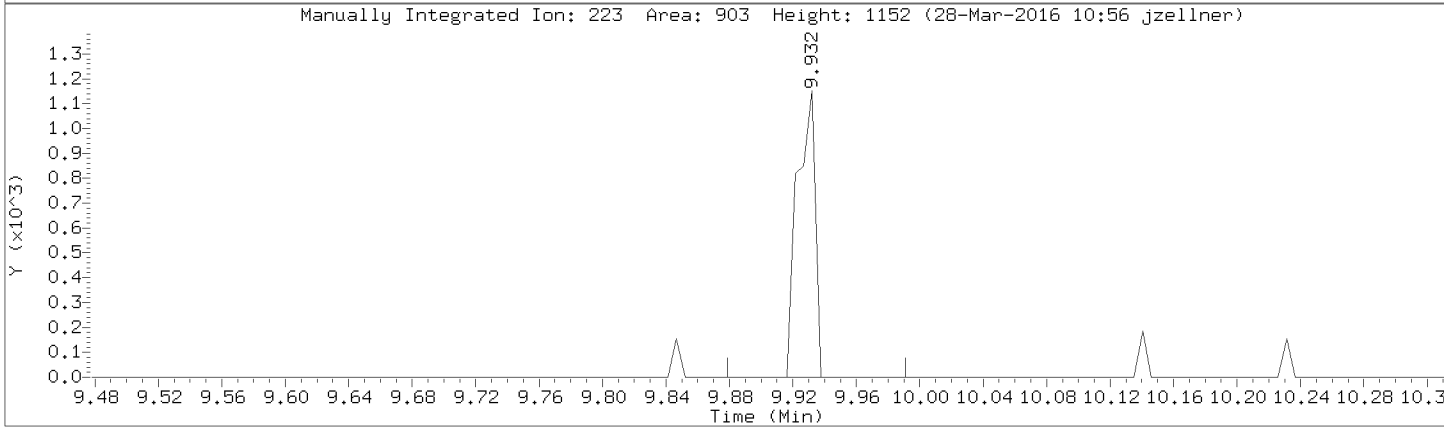
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Hexachlorobutadiene Review Code: NI
CAS Number: 87-68-3

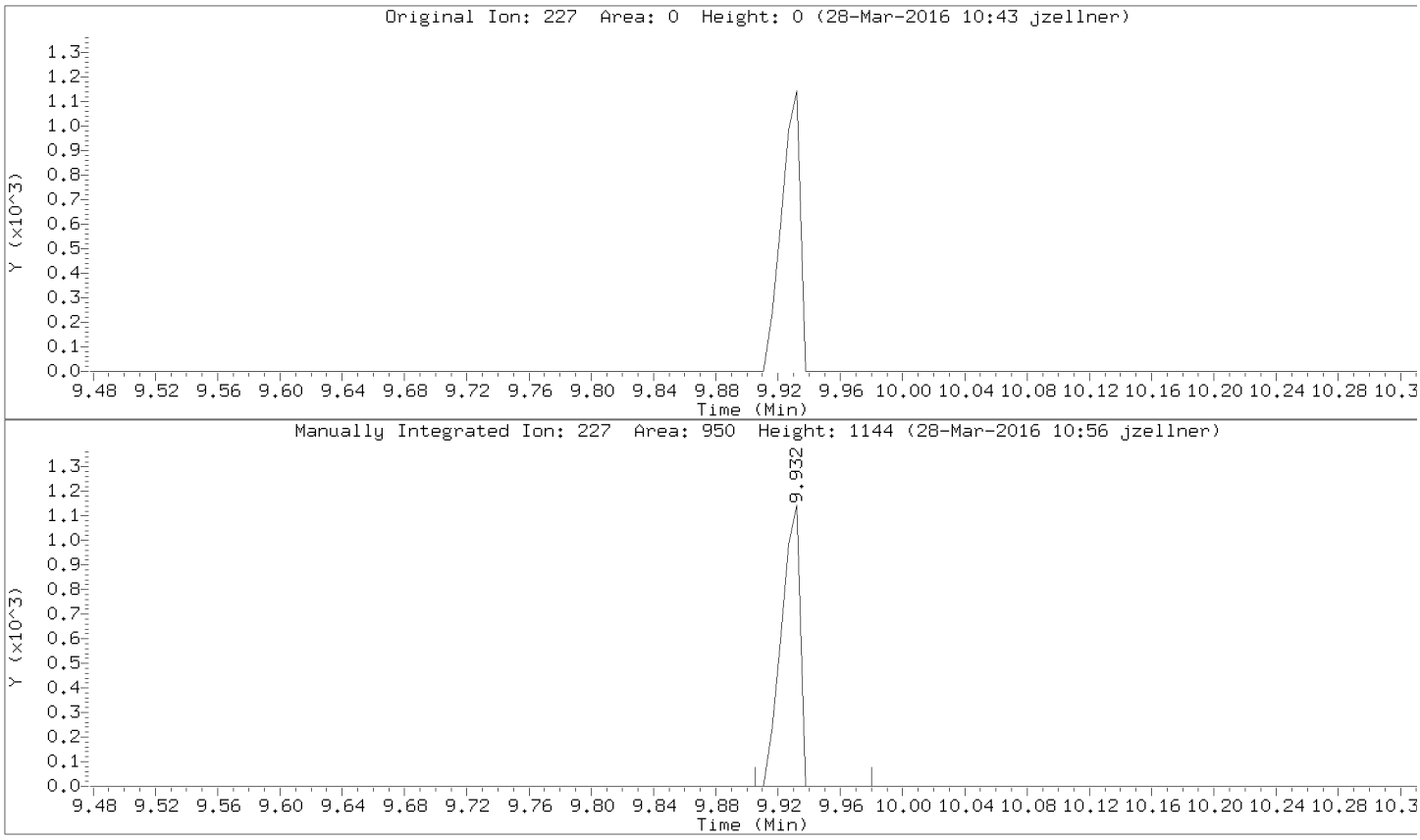






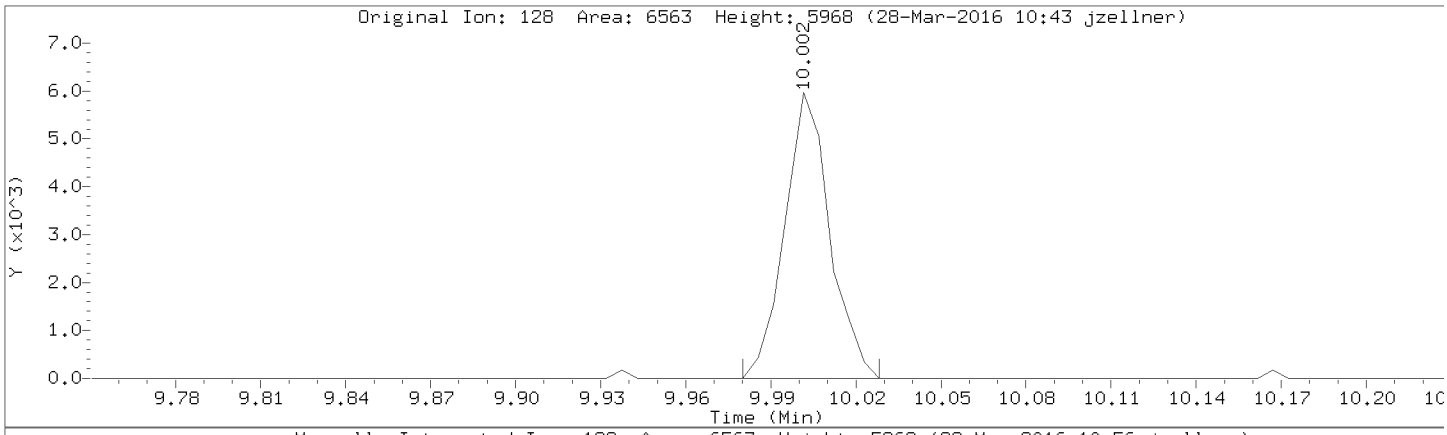


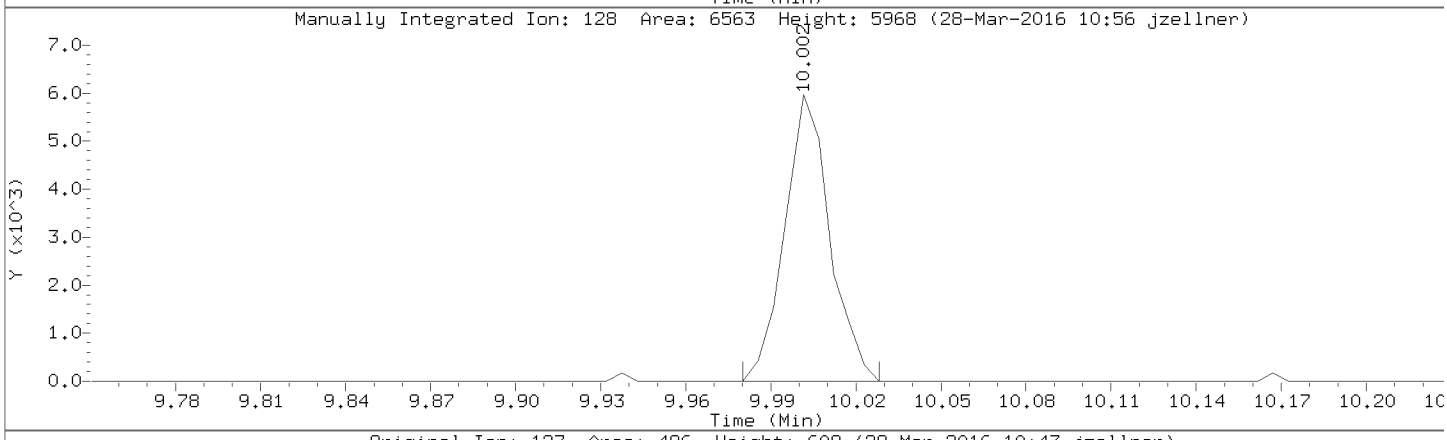
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

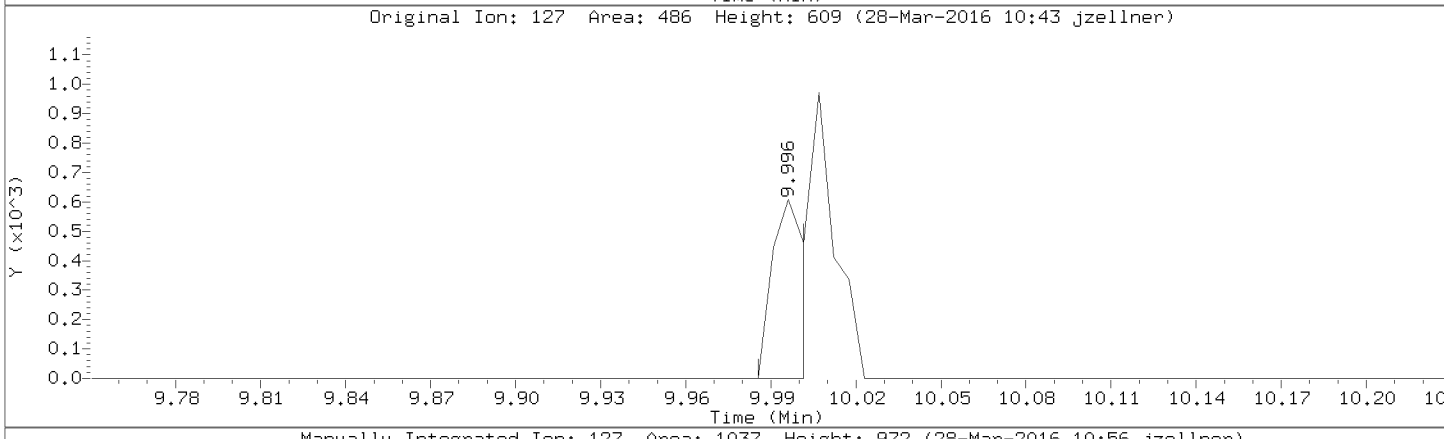


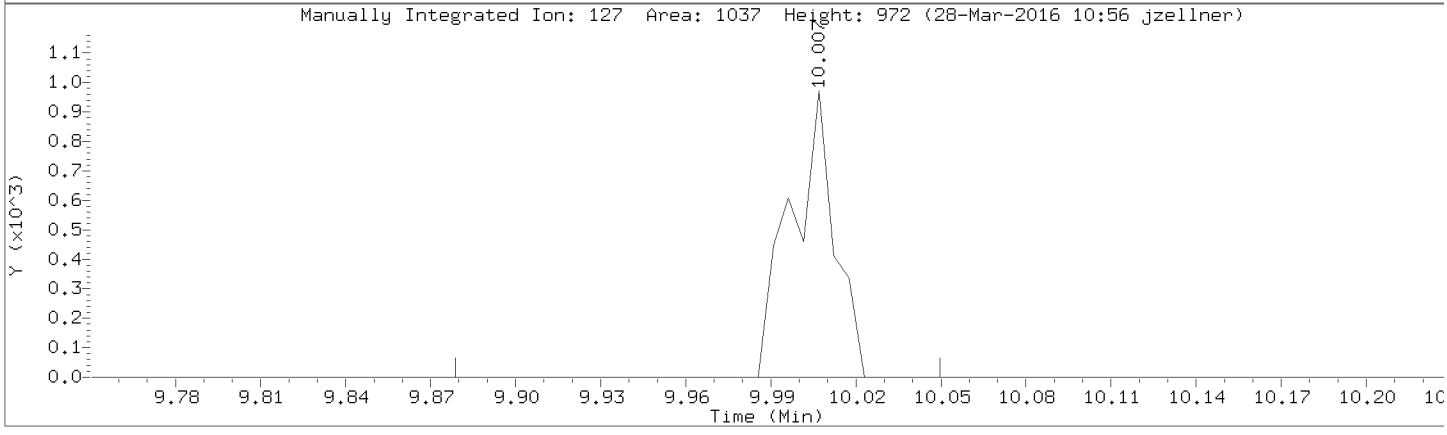
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: Naphthalene Review Code: LT
CAS Number: 91-20-3



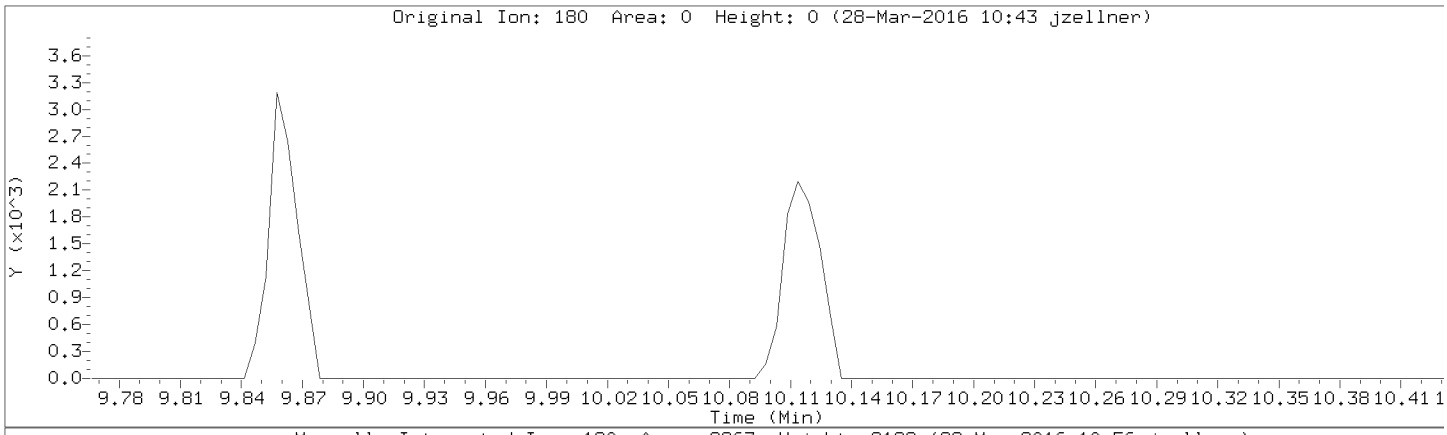


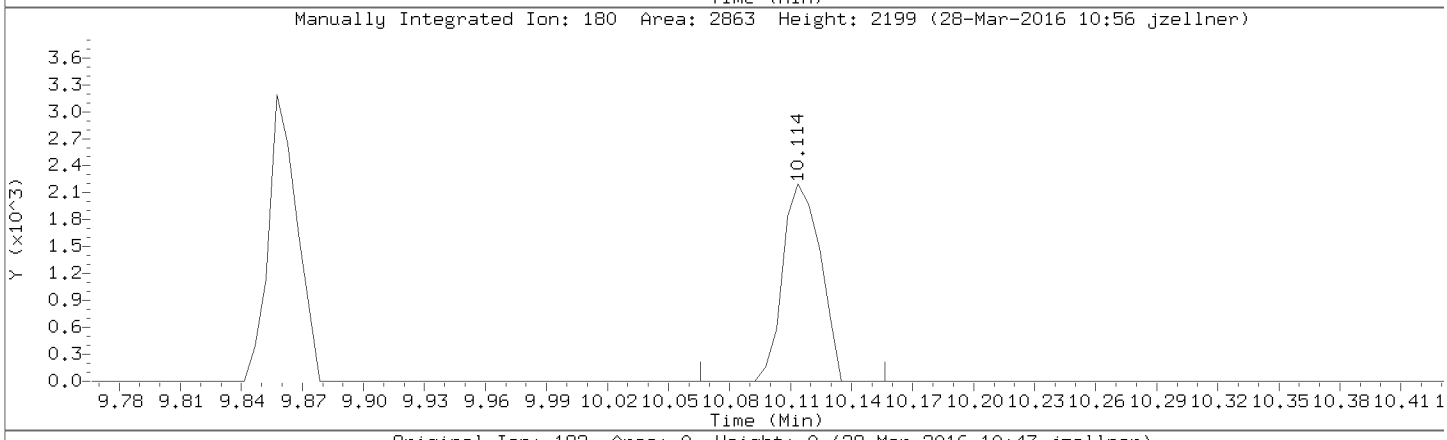


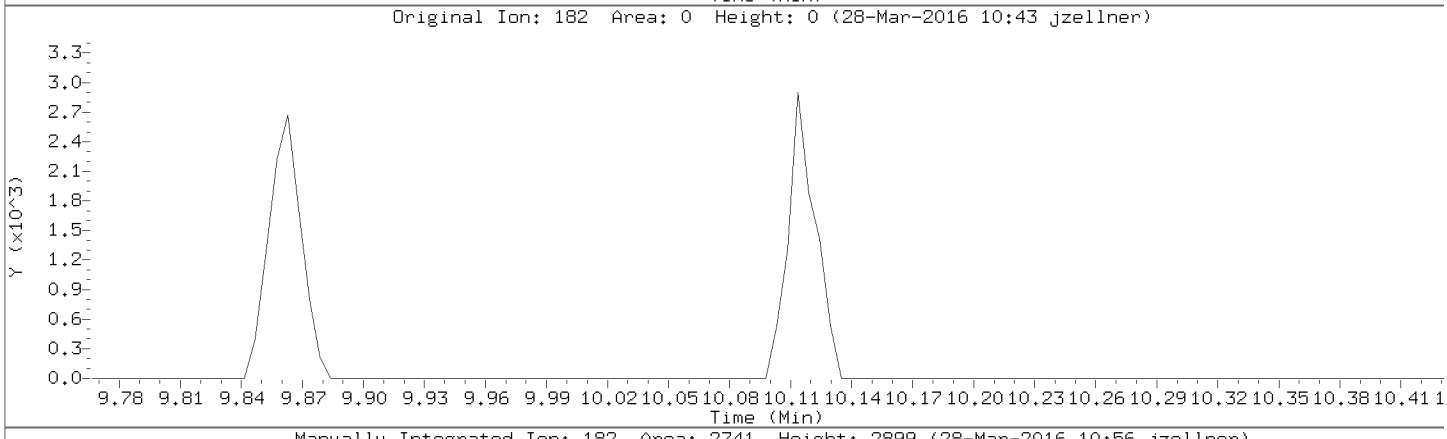


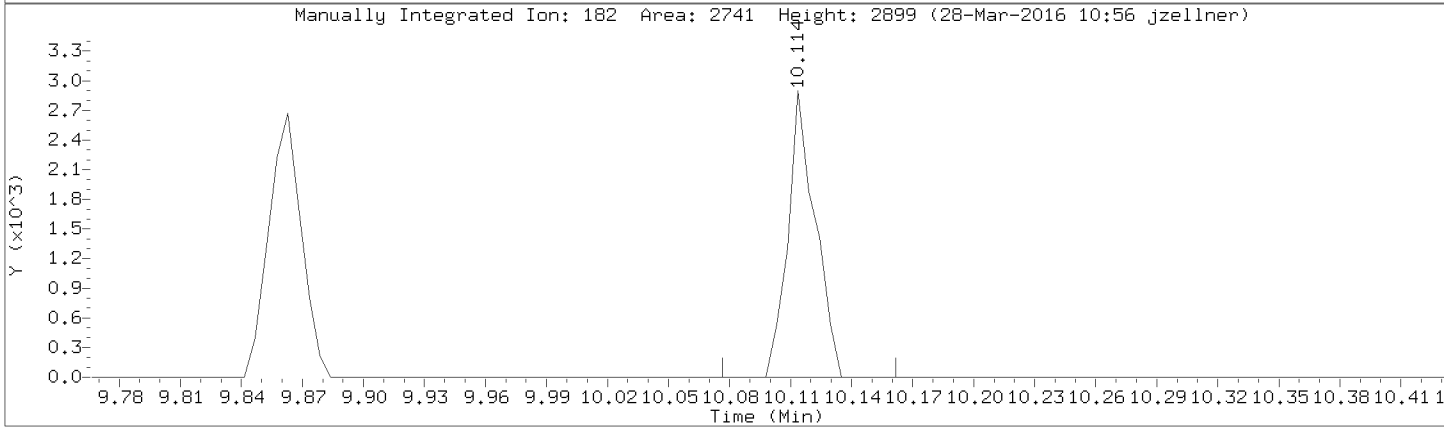
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0

Compound: 1,2,3-Trichlorobenzene Review Code: NI
CAS Number: 87-61-6

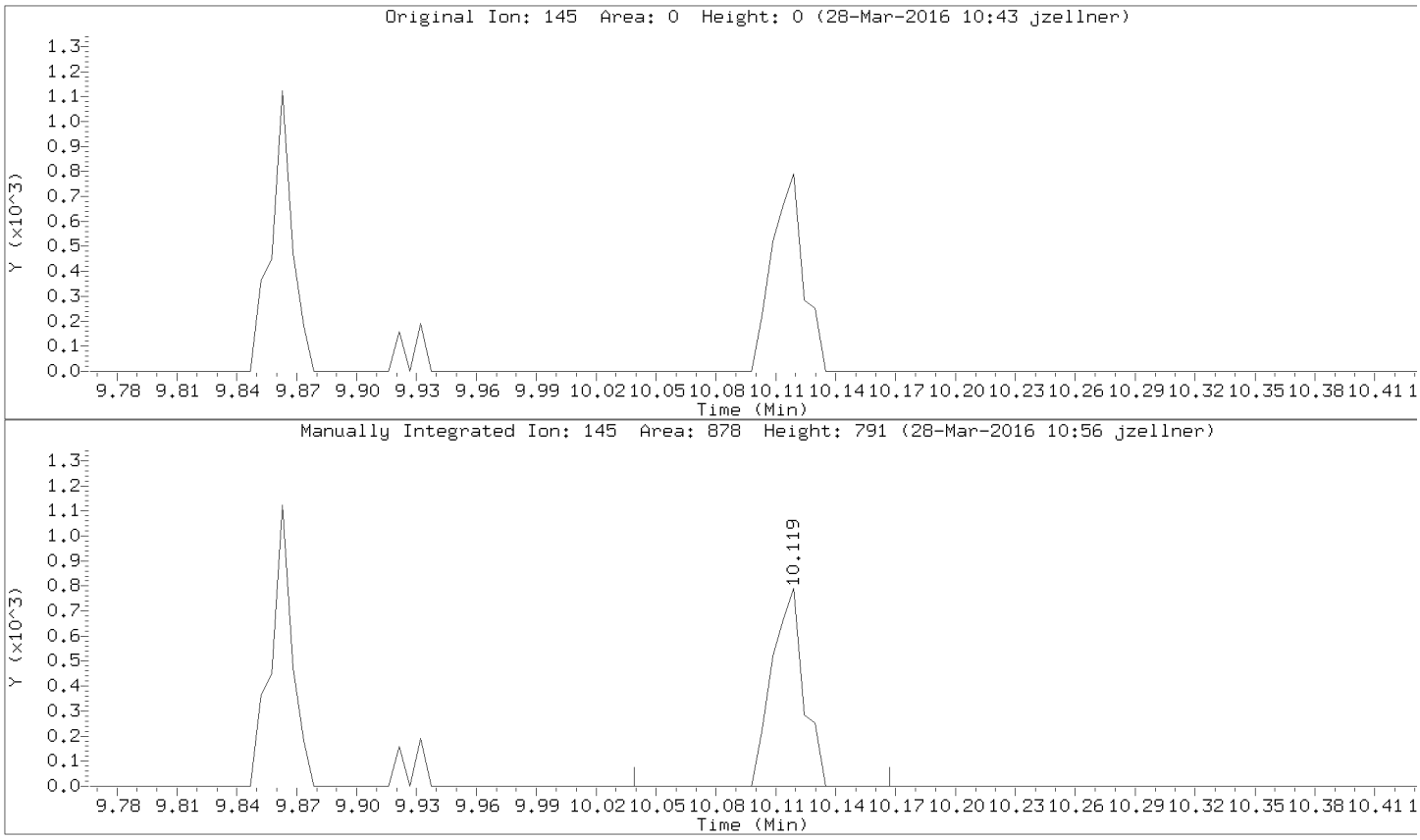








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b05cal2.d
Injection Date: 25-MAR-2016 16:25
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL2,117887:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b06cal3.d
Lab Smp Id: 8260-CAL3,117888:0
Inj Date : 25-MAR-2016 16:57
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal3,117888:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 16:57   Cal File: b06cal3.d
Als bottle: 14   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.220)	13093	5.00000	4.73	
2	Chloromethane	50	0.996	0.997	(0.239)	21001	5.00000	4.93	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	17348	5.00000	4.74	
4	Bromomethane	94	1.188	1.189	(0.285)	9697	5.00000	5.48	
5	Chloroethane	64	1.236	1.237	(0.296)	10436	5.00000	4.73	
6	Trichlorofluoromethane	101	1.348	1.350	(0.323)	18874	5.00000	4.49	
7	Diethyl ether	74	1.477	1.472	(0.354)	6969	5.00000	5.62	
8	1,2-dichlorotrifluoroethane	67	1.487	1.488	(0.356)	14968	5.00000	4.80	
9	Acrolein	56	1.546	1.542	(0.370)	29831	100.000	101	
10	1,1,2trichlorotrifluoroethane	101	1.600	1.601	(0.383)	12386	5.00000	4.59	
11	1,1-Dichloroethene	96	1.605	1.601	(0.385)	10625	5.00000	4.64	
12	Acetone	43	1.616	1.611	(0.387)	12711	25.0000	24.8	
13	Iodomethane	142	1.690	1.686	(0.405)	19017	10.0000	7.45	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	12826	5.00000	4.66	
15	Methyl Acetate	43	1.781	1.782	(0.427)	6113	5.00000	5.29	
16	allyl chloride	41	1.797	1.798	(0.431)	34497	10.0000	8.96	
17	Acetonitrile	39	1.797	1.798	(0.431)	24050	5.00000	4.48	
18	Methylene Chloride	84	1.872	1.873	(0.449)	10712	5.00000	5.26	
19	tert-Butyl Alcohol	59	1.909	1.916	(0.457)	967	10.0000	9.51(M)	NI
20	Acrylonitrile	53	2.005	2.006	(0.481)	9804	20.0000	20.0	
21	Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	19594	5.00000	4.75	
22	1,2-Dichloroethene (trans)	96	2.048	2.044	(0.491)	9339	5.00000	4.57	
23	n-Hexane	57	2.230	2.231	(0.534)	20162	5.00000	4.74	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.342	2.338	(0.561)	49929	20.0000	15.1	
	25 1,1-Dichloroethane	63	2.347	2.348	(0.562)	16531	5.00000	4.42	
	26 Chloroprene	53	2.406	2.402	(0.576)	14614	5.00000	4.31	
	27 2-Butanone	43	2.812	2.808	(0.674)	12907	25.0000	19.2	
	28 1,2-Dichloroethene (cis)	96	2.828	2.824	(0.678)	9536	5.00000	4.71	
	29 2,2-Dichloropropane	77	2.823	2.829	(0.676)	8968	5.00000	3.82	
	30 Propionitrile	54	2.897	2.872	(0.694)	688	5.00000	4.11(QM)	NI
	31 Methacrylonitrile	41	3.020	3.011	(0.724)	5535	5.00000	6.17(Q)	
	32 Bromochloromethane	49	3.052	3.053	(0.731)	7417	5.00000	5.00	
	33 Tetrahydrofuran	42	3.084	3.080	(0.739)	2807	5.00000	7.55(QM)	NI
	34 Chloroform	83	3.170	3.165	(0.759)	15294	5.00000	4.64	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	86947	50.0000	50.6	
	36 1,1,1-Trichloroethane	97	3.341	3.342	(0.800)	12326	5.00000	4.29	
	37 Cyclohexane	56	3.426	3.427	(0.821)	17276	5.00000	4.54	
	151 n-Butyl chloride	56	3.490	3.491	(0.836)	20060	5.00000	4.36	
	38 Carbon Tetrachloride	117	3.522	3.523	(0.844)	10192	5.00000	4.25	
	39 1,1-Dichloropropene	75	3.538	3.534	(0.848)	12999	5.00000	4.61	
	40 Benzene	78	3.773	3.774	(0.904)	35407	5.00000	4.54	
	41 1,2-Dichloroethane	62	3.864	3.860	(0.926)	10904	5.00000	5.05(M)	NI
	42 Isobutyl alcohol	43	3.950	3.951	(0.946)	7975	5.00000	4.44(M)	NI
	43 2,2,4-Trimethylpentane	57	3.950	3.951	(0.946)	37231	5.00000	4.36	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	375284	50.0000		
	45 Trichloroethene	95	4.633	4.624	(1.110)	8668	5.00000	4.62	
	46 Methylcyclohexane	55	4.895	4.891	(1.173)	12009	5.00000	4.26	
	47 1,2-Dichloropropane	63	4.932	4.928	(1.182)	8502	5.00000	4.71	
	48 Methyl methacrylate	69	5.050	5.046	(1.210)	3181	5.00000	4.06(QM)	NI
	49 Dibromomethane	93	5.028	5.024	(1.205)	4244	5.00000	5.07	
	50 1,4-Dioxane	88	5.055	5.035	(1.211)	953	100.000	87.5(M)	NI
	51 Bromodichloromethane	83	5.253	5.254	(1.258)	9038	5.00000	4.42(M)	NI
	52 2-Chloroethyl vinyl ether	63	5.605	5.601	(0.763)	5701	10.0000	13.4	
	53 cis-1,3-Dichloropropene	75	5.750	5.745	(0.783)	9348	5.00000	4.20	
	54 4-Methyl-2-Pentanone	43	5.926	5.921	(0.807)	24789	25.0000	22.0	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	326989	50.0000	50.8	
	56 Toluene	91	6.091	6.092	(0.829)	39580	5.00000	4.72	
	57 trans-1,3-Dichloropropene	75	6.380	6.381	(0.868)	6376	5.00000	3.98	
	58 Ethyl Methacrylate	69	6.471	6.466	(0.881)	5014	5.00000	3.69(M)	NI
	59 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	4719	5.00000	4.97	
	60 Tetrachloroethene	166	6.620	6.621	(0.901)	7511	5.00000	4.38	
	61 1,3-Dichloropropane	76	6.706	6.707	(0.913)	10459	5.00000	5.06	
	62 2-Hexanone	43	6.780	6.776	(0.923)	16621	25.0000	22.8	
	63 Dibromochloromethane	129	6.893	6.888	(0.938)	4975	5.00000	4.65	
	64 1,2-Dibromoethane	107	6.973	6.974	(0.949)	4719	5.00000	4.69	
*	65 Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	199150	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	19379	5.00000	4.72	
	67 1,1,1,2-Tetrachloroethane	131	7.443	7.444	(1.013)	5047	5.00000	4.15	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	10825	5.00000	4.53	
	69 m&p-Xylene	106	7.549	7.550	(1.028)	25522	10.0000	8.82	
	70 o-Xylene	106	7.811	7.807	(1.063)	11329	5.00000	4.32	
	71 Styrene	104	7.827	7.823	(1.065)	19353	5.00000	4.41	
	72 Bromoform	173	7.945	7.946	(0.899)	2528	5.00000	5.08(M)	NI
	73 Isopropylbenzene	105	8.052	8.053	(1.096)	30490	5.00000	4.35	
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	85834	50.0000	49.1	
	75 Bromobenzene	77	8.244	8.245	(1.122)	12525	5.00000	4.80	
	76 1,1,2,2-Tetrachloroethane	83	8.254	8.256	(0.934)	6488	5.00000	5.37	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
77 trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	1406	5.00000	4.62(Q)	
78 1,2,3-Trichloropropane	110	8.287	8.282	(0.937)	1586	5.00000	4.79	
79 n-Propylbenzene	91	8.313	8.314	(0.940)	39527	5.00000	4.66	
80 2-Chlorotoluene	91	8.361	8.362	(0.946)	22229	5.00000	4.79	
81 1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	23875	5.00000	4.45	
82 4-Chlorotoluene	126	8.436	8.437	(0.954)	7051	5.00000	4.48	
83 tert-Butylbenzene	119	8.602	8.603	(0.973)	25797	5.00000	4.35	
84 1,2,4-Trimethylbenzene	105	8.634	8.635	(0.976)	24998	5.00000	4.56	
85 sec-Butylbenzene	105	8.730	8.731	(0.987)	32747	5.00000	4.62	
86 1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	12958	5.00000	4.75	
87 p-Isopropyltoluene	119	8.815	8.811	(0.997)	24725	5.00000	4.20	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	81162	50.0000		
89 1,4-Dichlorobenzene	146	8.853	8.854	(1.001)	12899	5.00000	4.78	
90 n-Butylbenzene	91	9.034	9.030	(1.022)	26762	5.00000	4.55	
91 1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	11779	5.00000	4.78	
92 1,2-Dibromo-3-chloropropane	155	9.456	9.452	(1.069)	485	5.00000	4.64(QM)	NI
93 1,2,4-Trichlorobenzene	180	9.862	9.858	(1.115)	6780	5.00000	4.77	
94 Hexachlorobutadiene	225	9.926	9.927	(1.123)	3878	5.00000	4.62	
95 Naphthalene	128	10.001	10.002	(1.131)	13387	5.00000	4.30	
96 1,2,3-Trichlorobenzene	180	10.119	10.114	(1.144)	6514	5.00000	4.96	
97 2,methyl-naphthalene	142	10.631	10.632	(1.202)	7950	5.00000	4.30	
98 1-Methylnaphthalene	142	10.749	10.744	(1.216)	7153	5.00000	4.41	

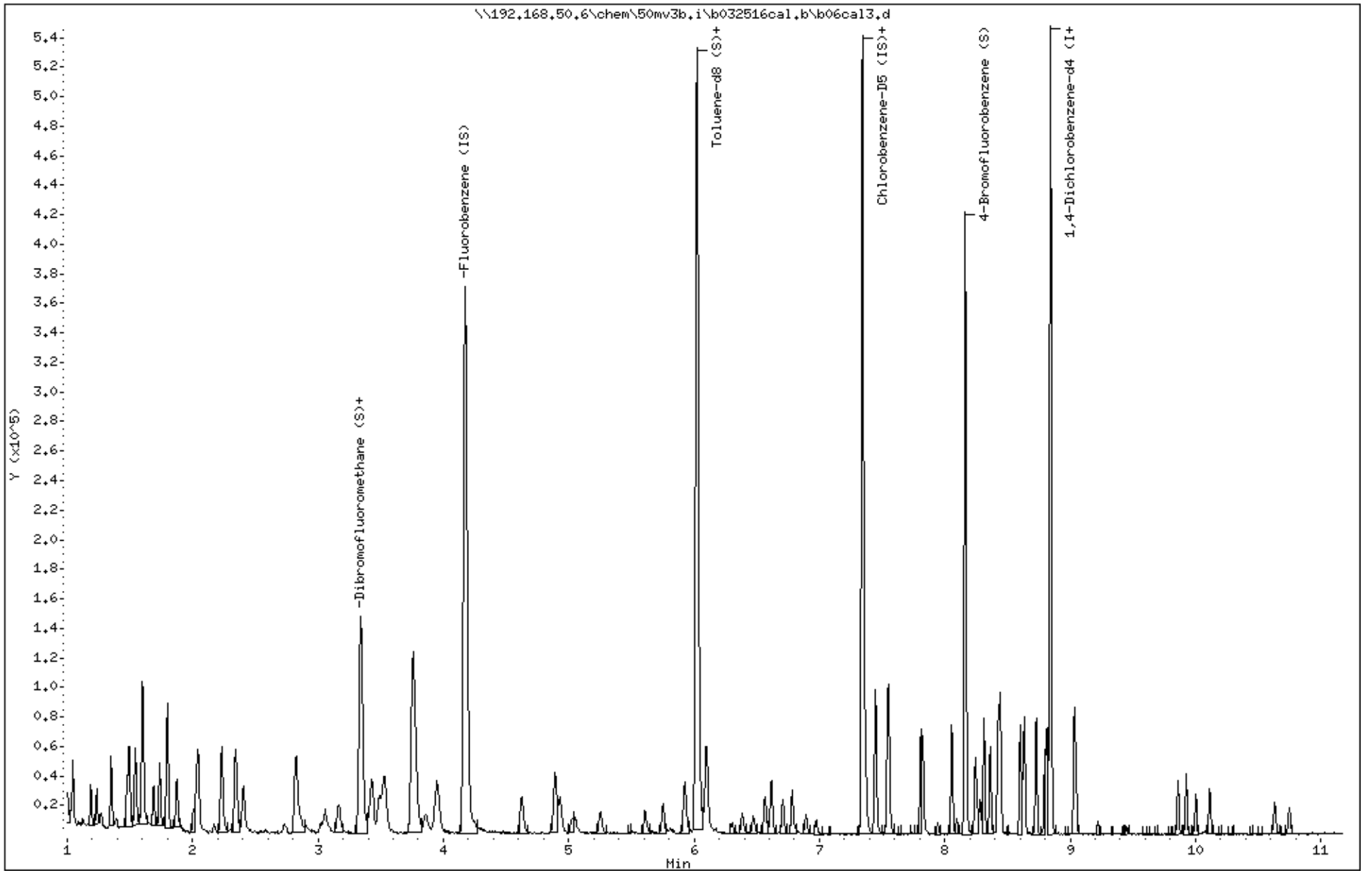
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

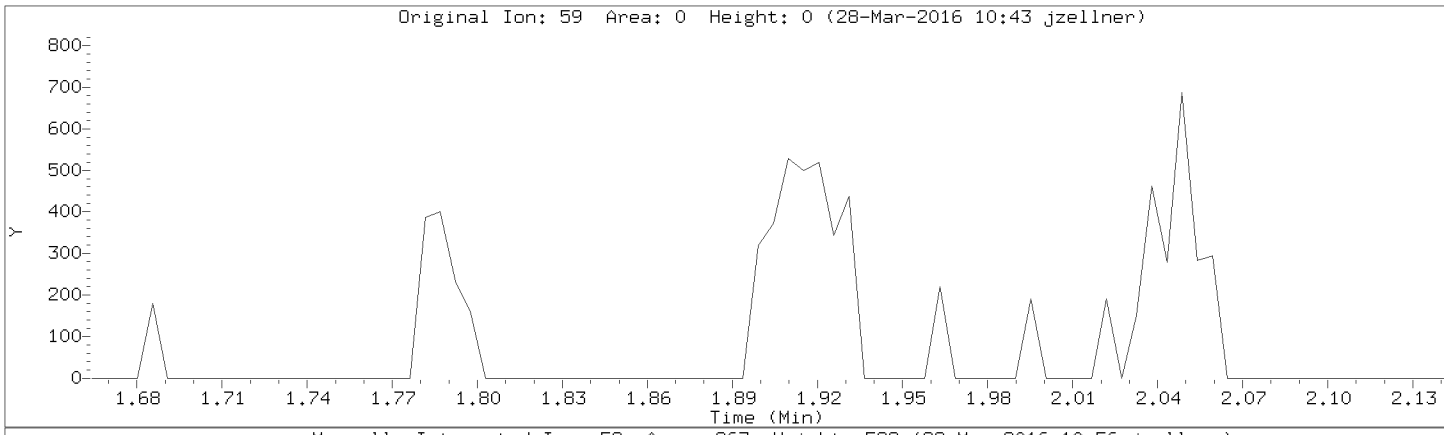
:
NI: Indicates that the peak was not integrated at all by the computer software.

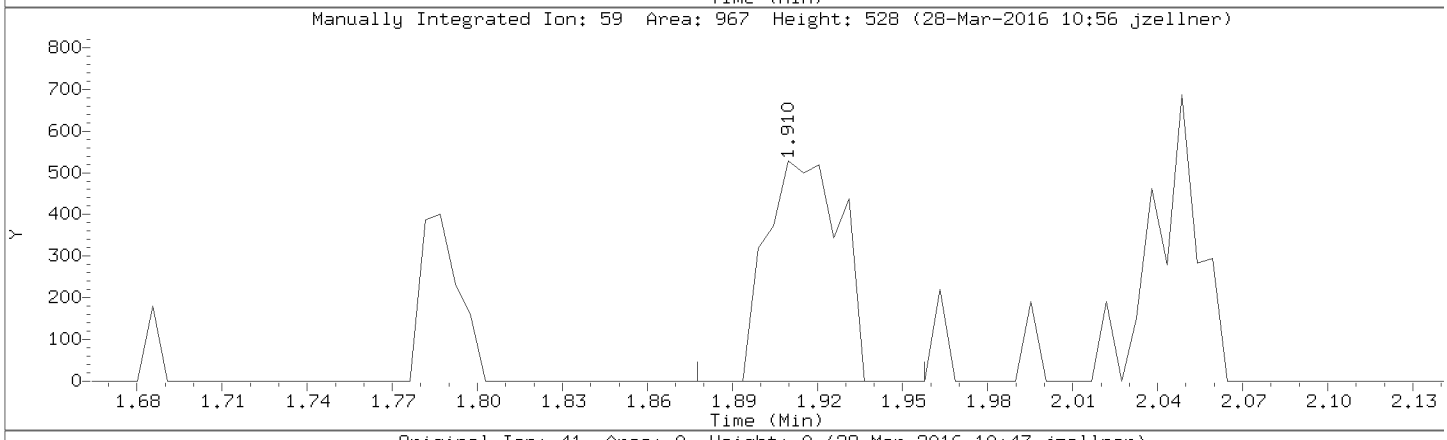
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b06cal3.d
Date : 25-MAR-2016 16:57
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL3,117888:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

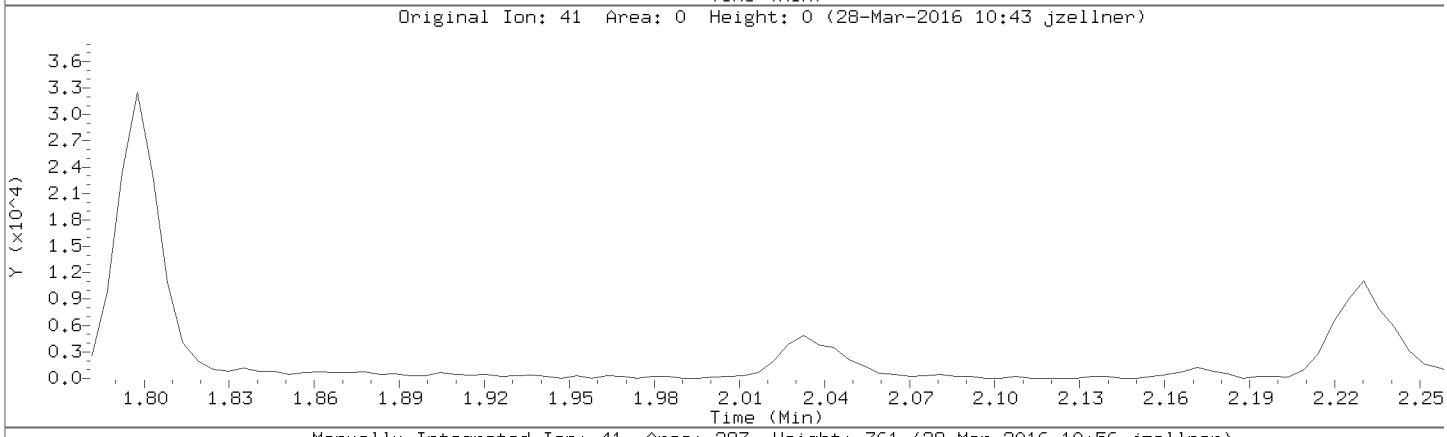


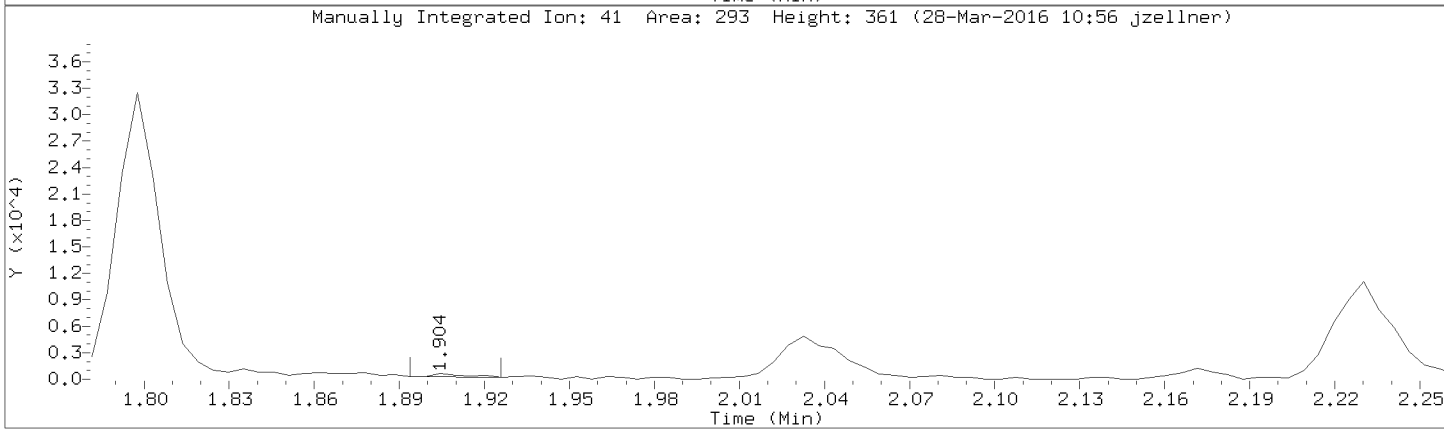
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: tert-Butyl Alcohol Review Code: NI
CAS Number: 75-65-0



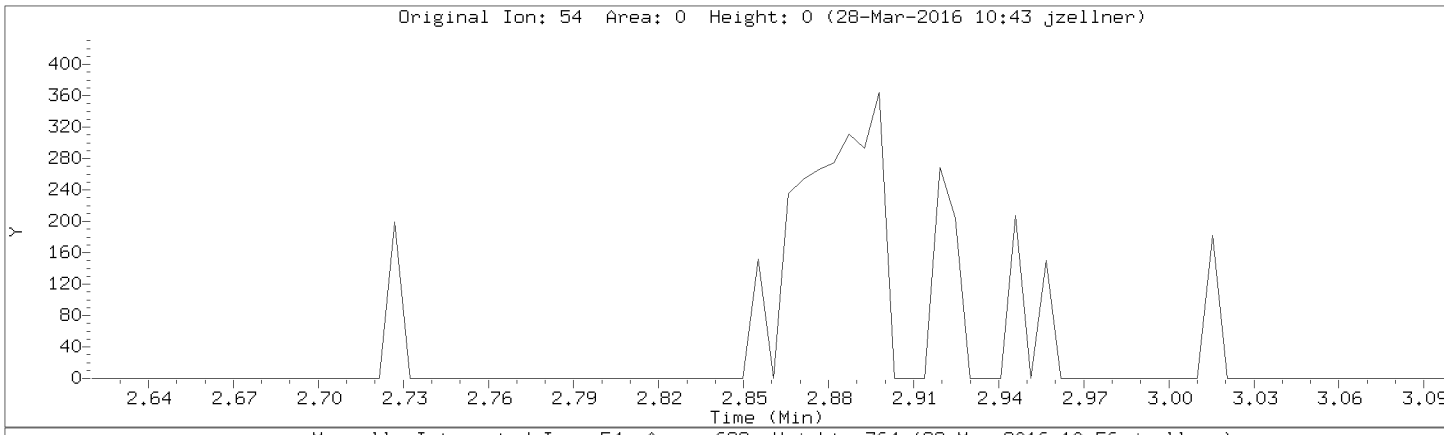


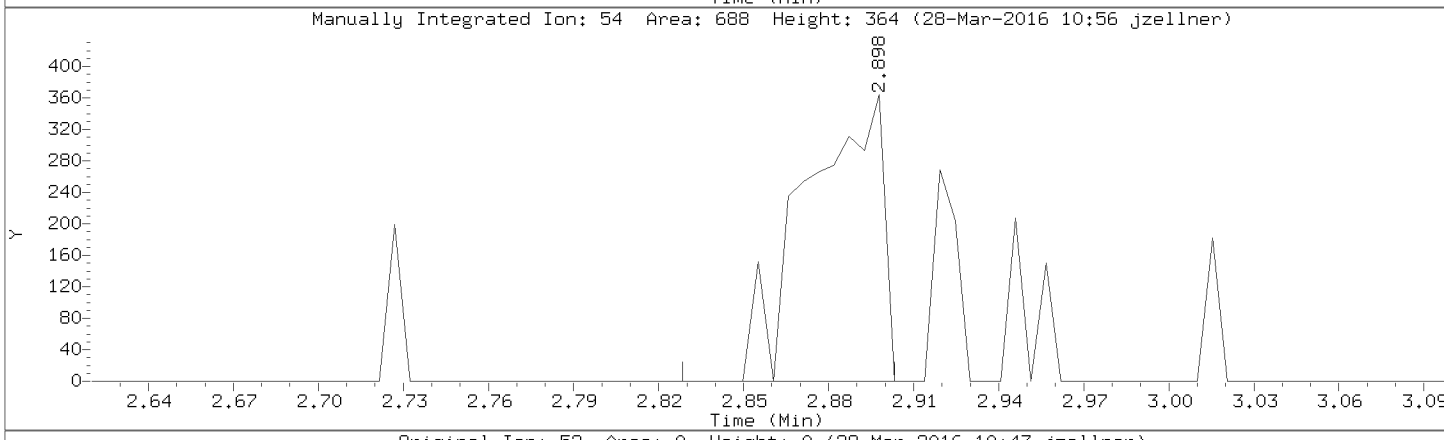


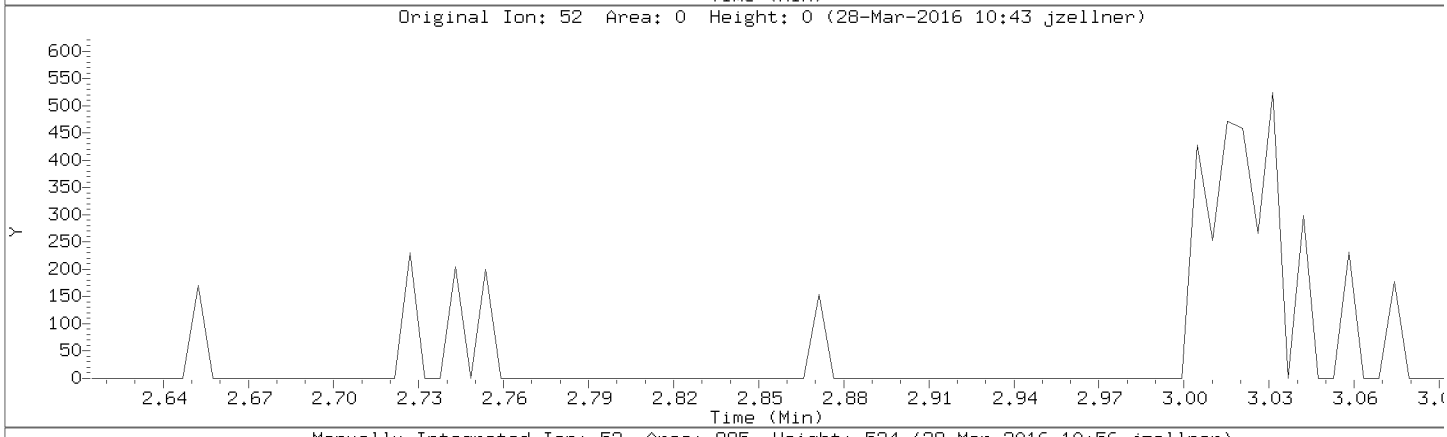


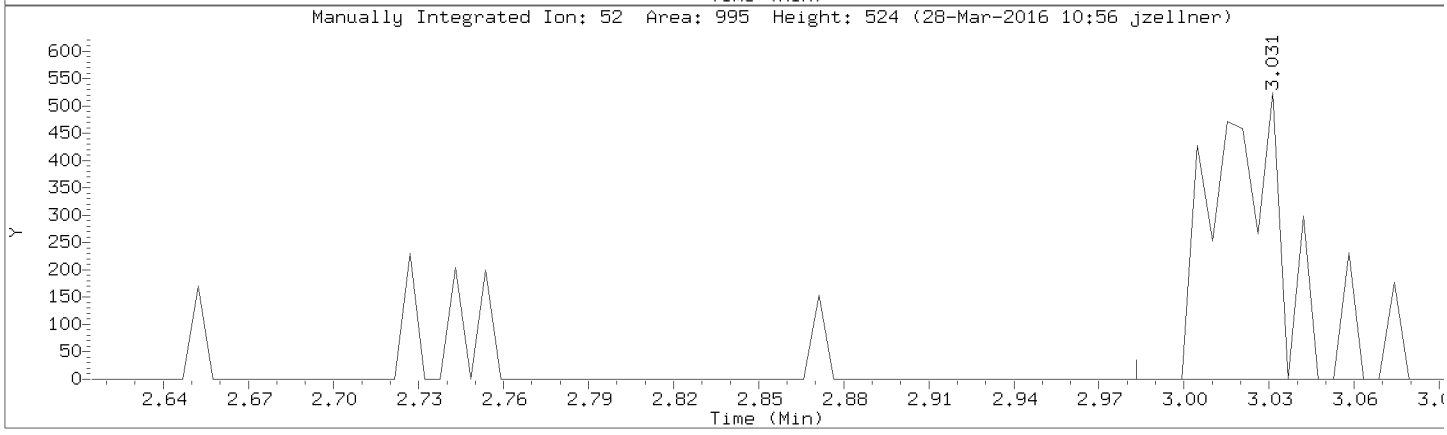
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Propionitrile Review Code: NI
CAS Number: 107-12-0

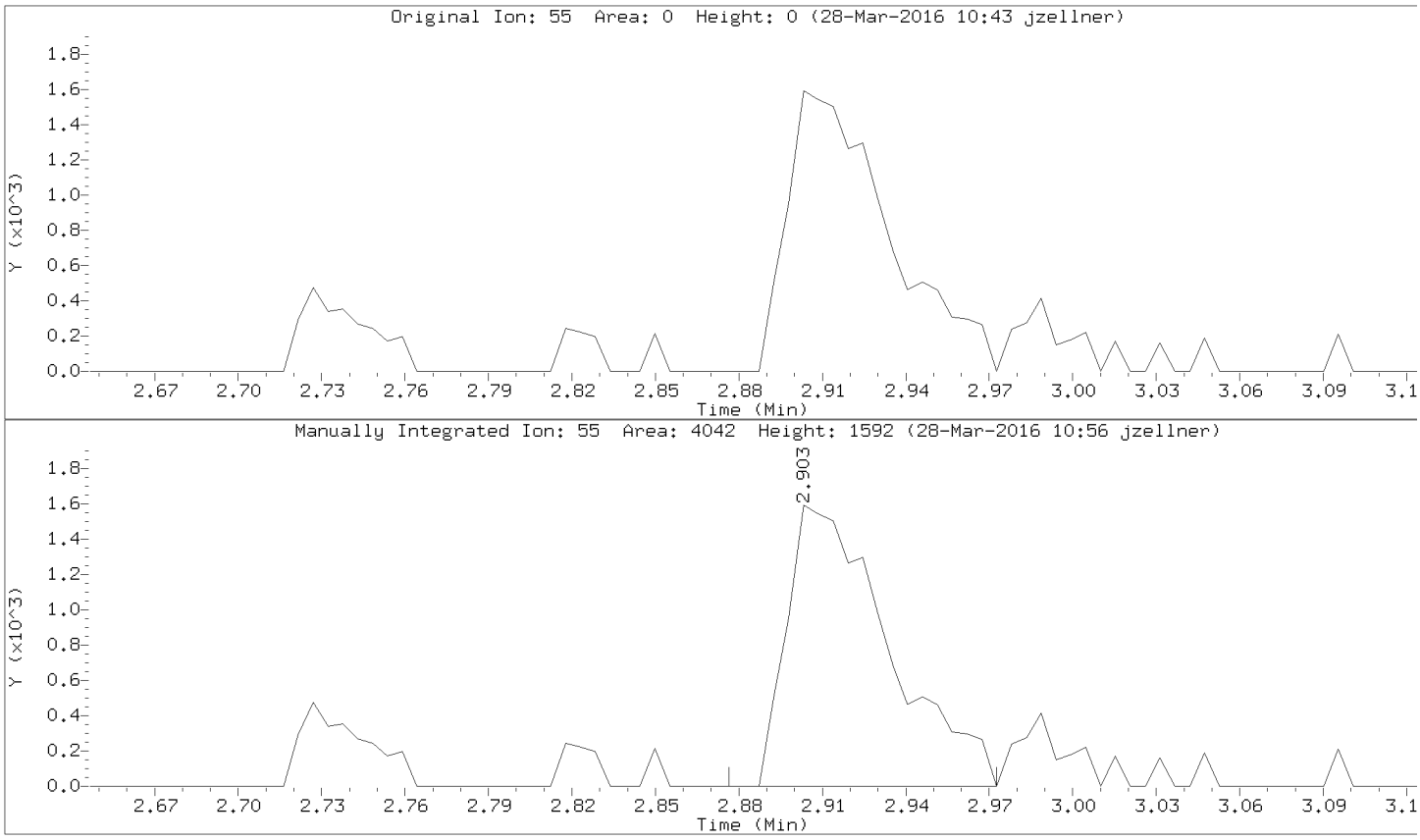






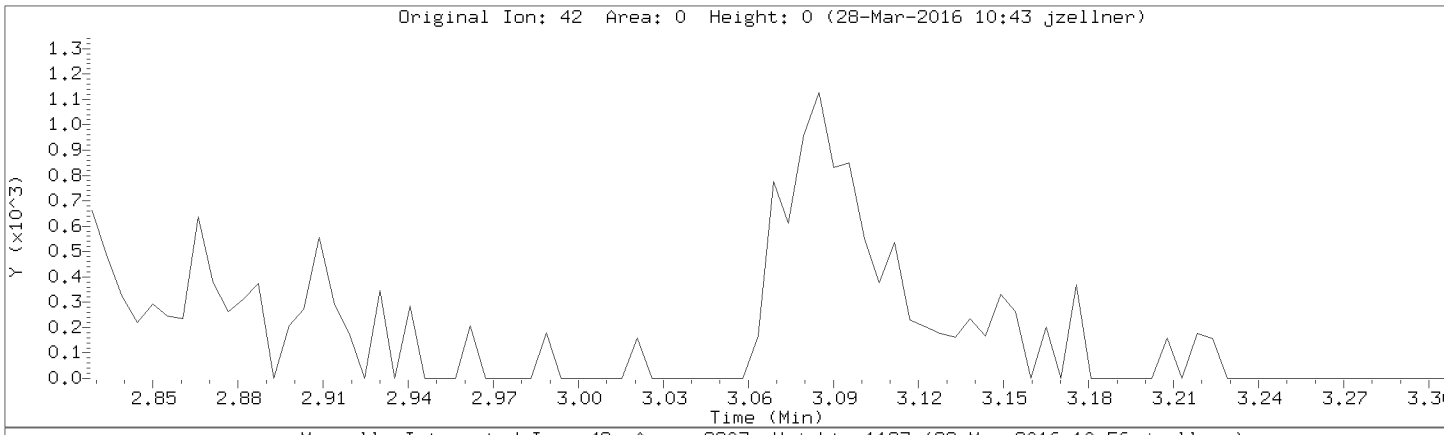


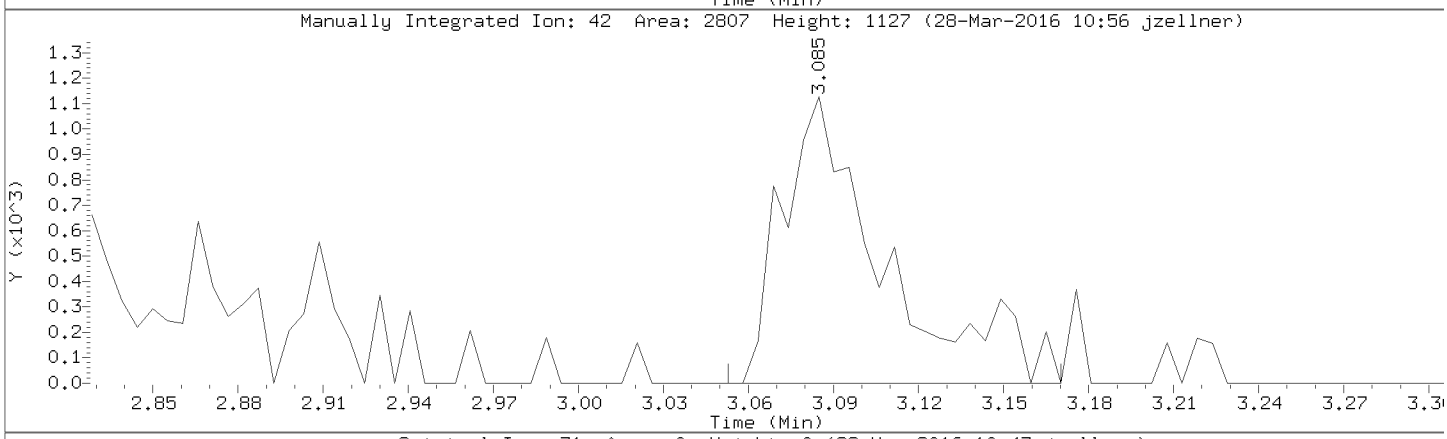
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

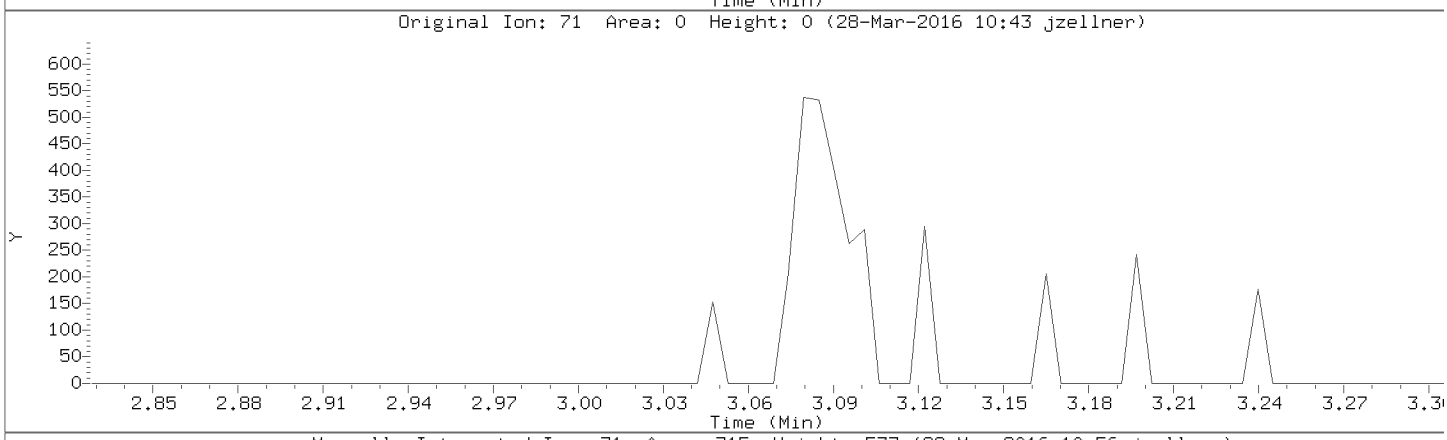


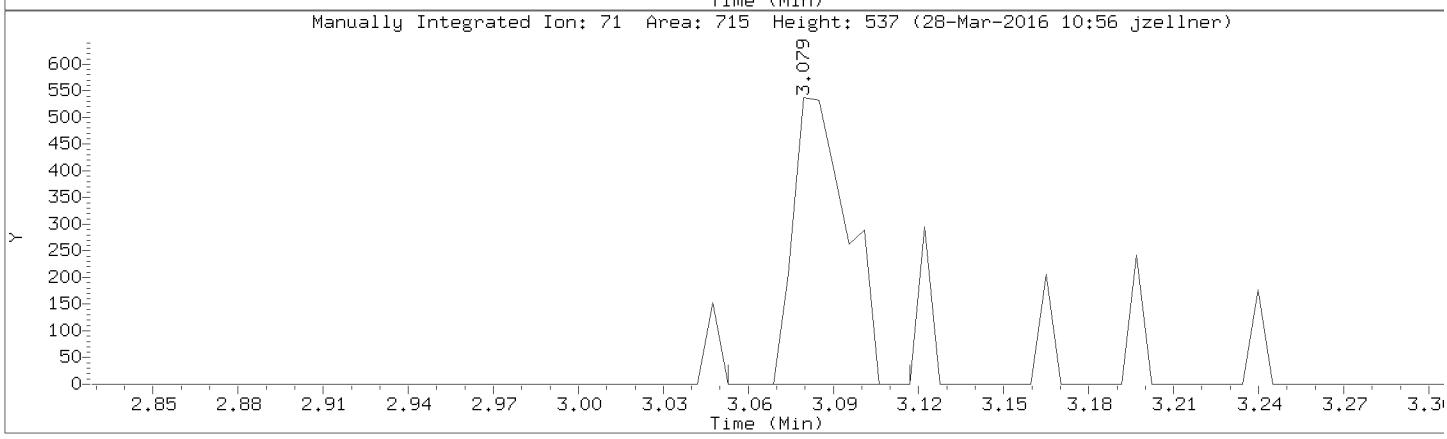
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Tetrahydrofuran Review Code: NI
CAS Number:

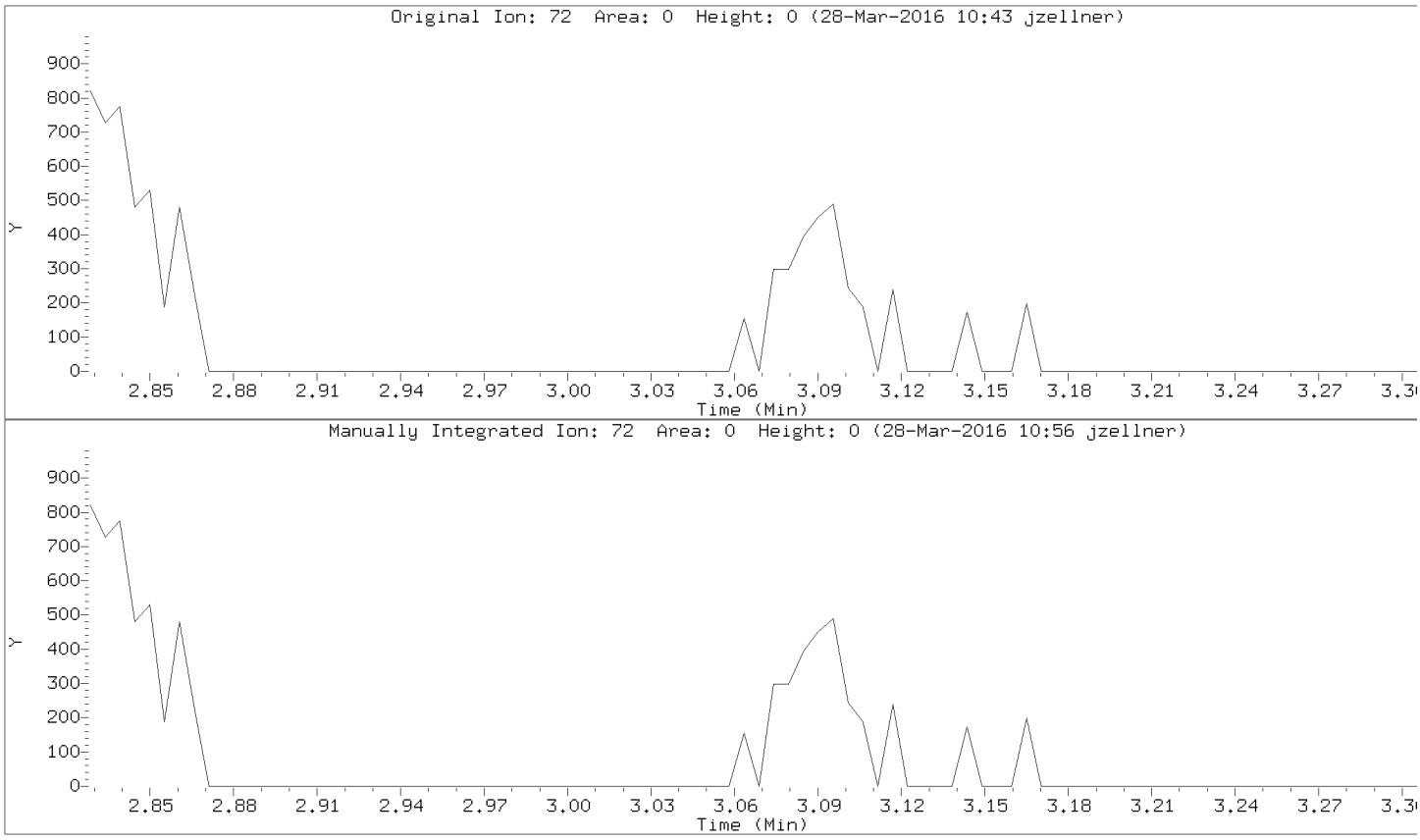






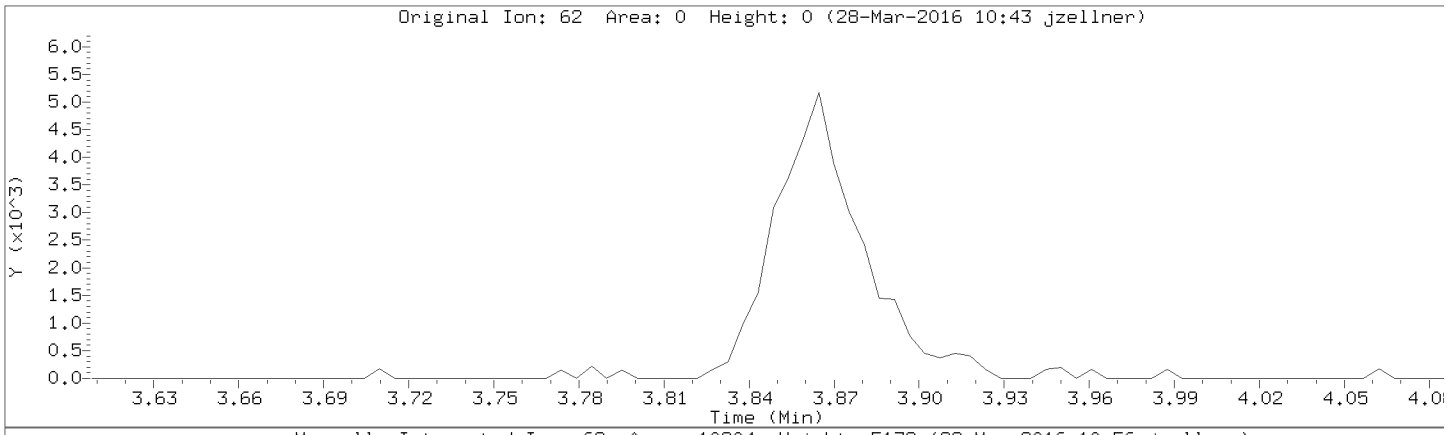


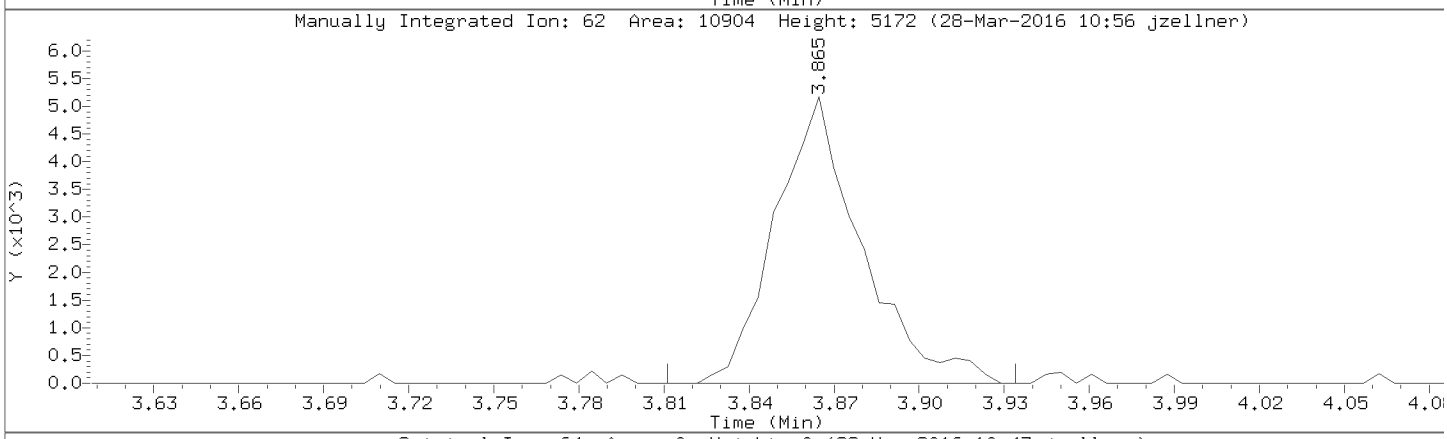
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

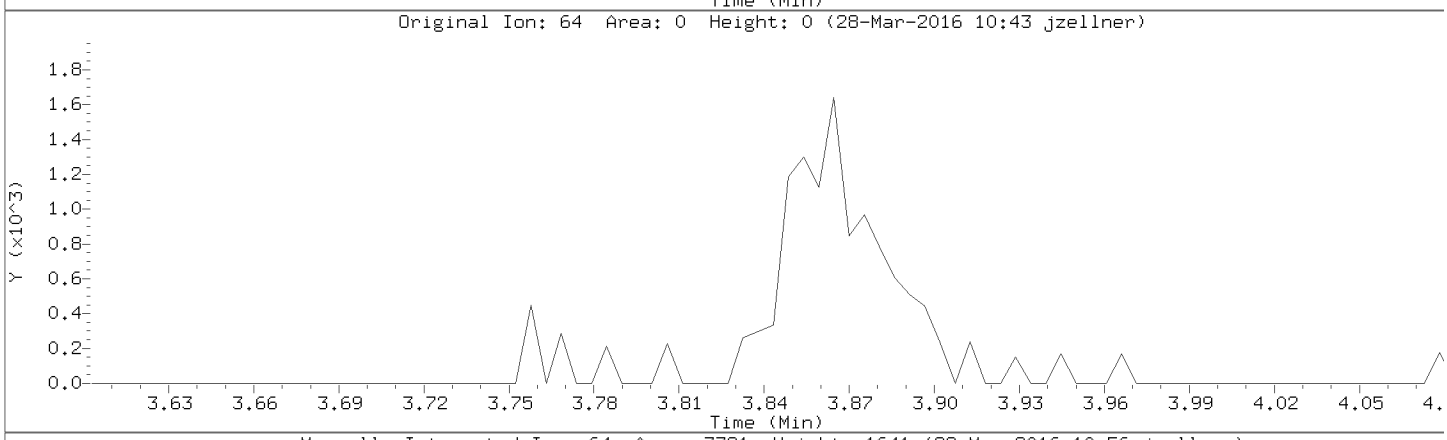


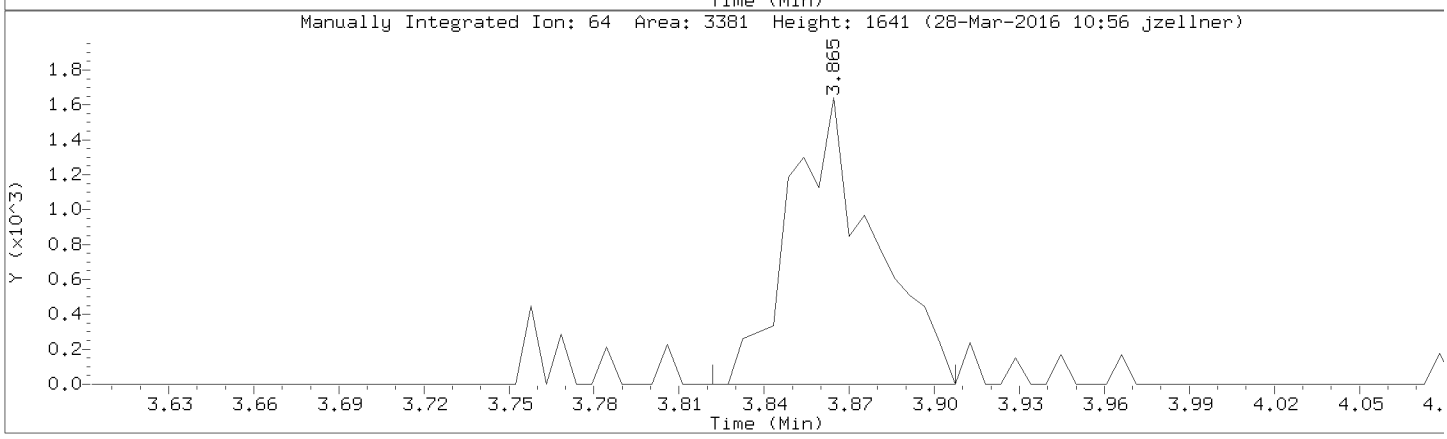
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,2-Dichloroethane Review Code: NI
CAS Number: 107-06-2

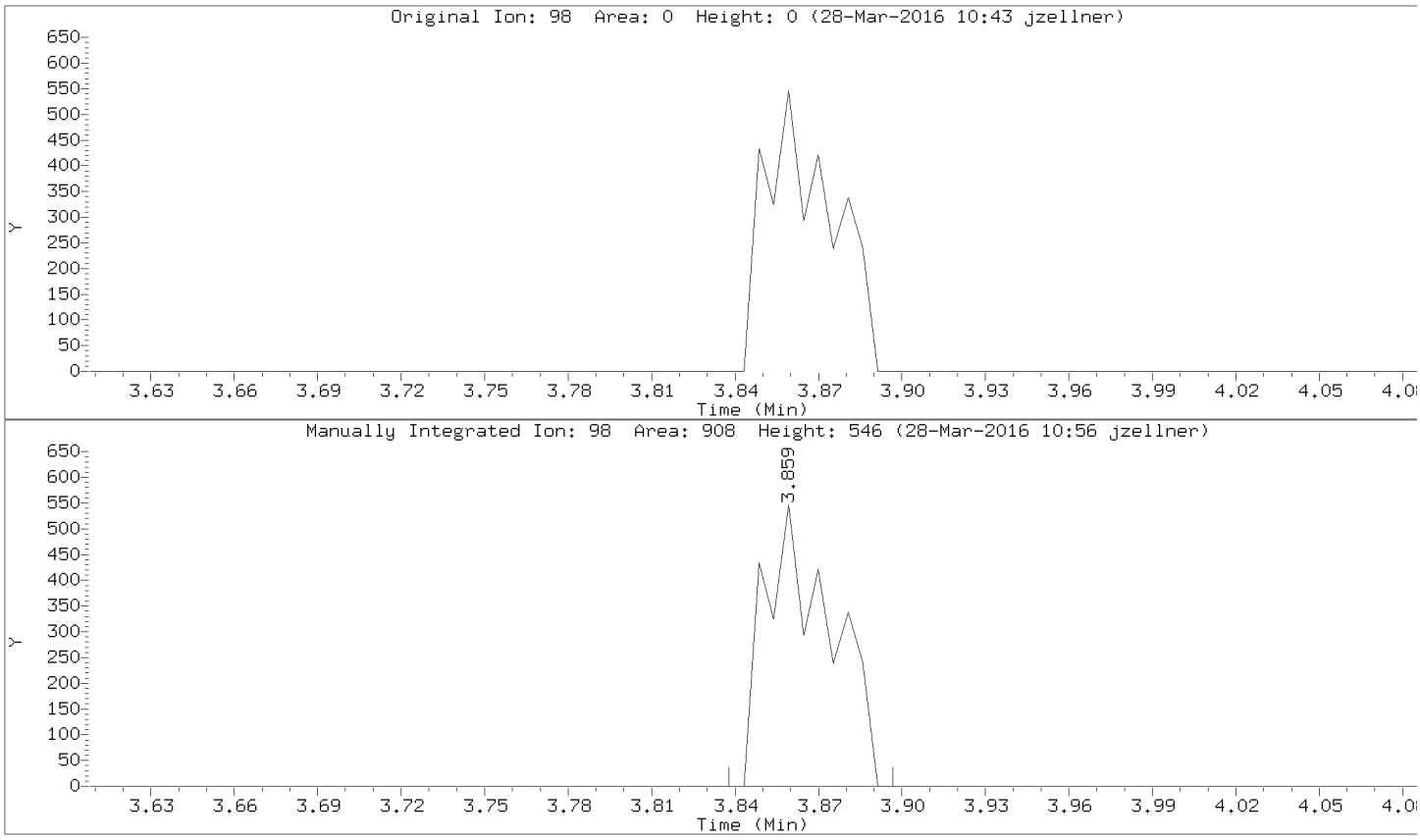






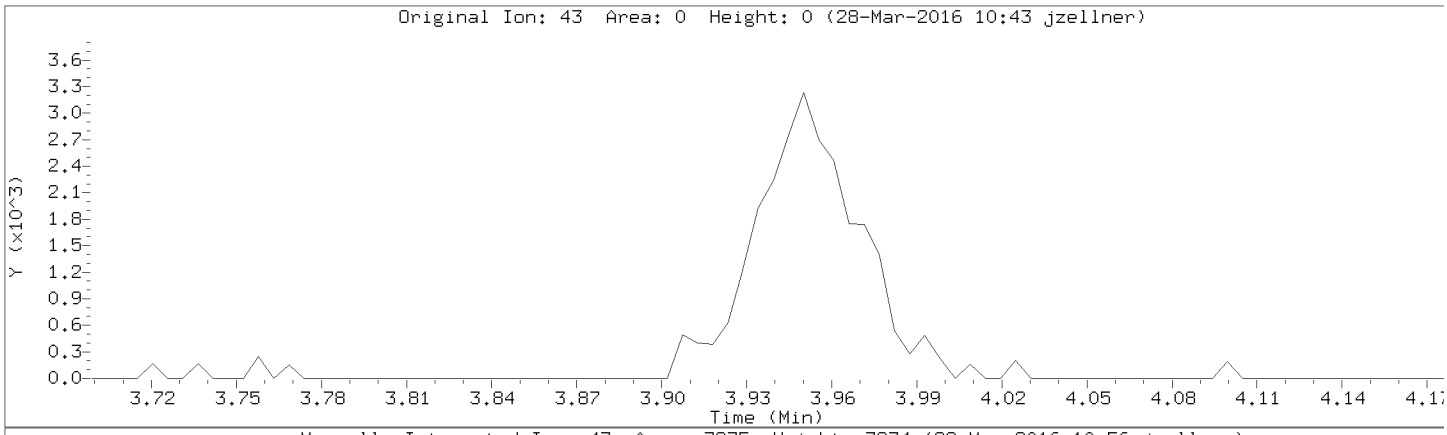


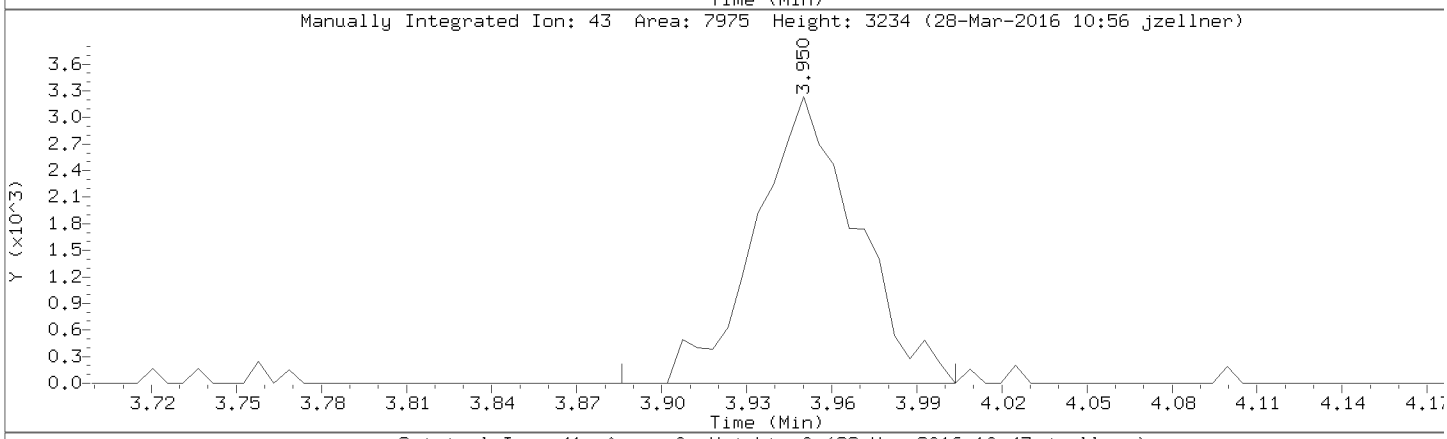
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

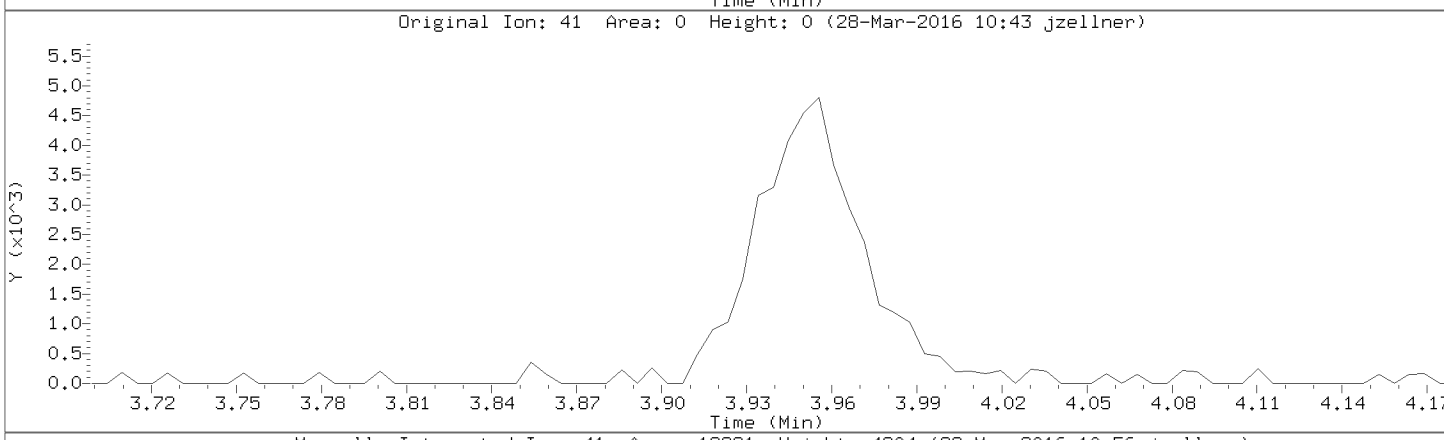


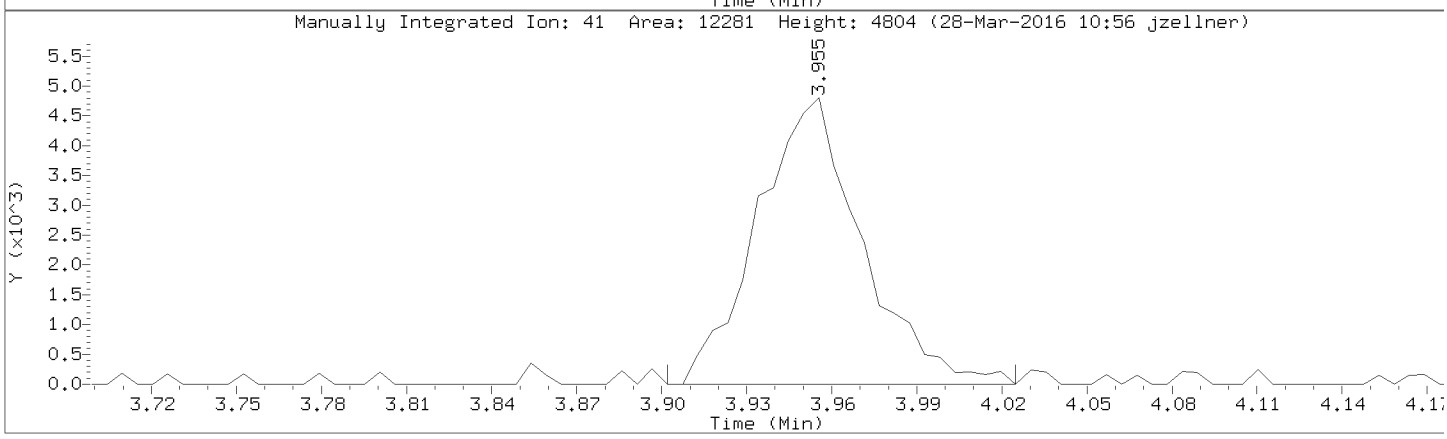
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Isobutyl alcohol Review Code: NI
CAS Number: 78-83-1

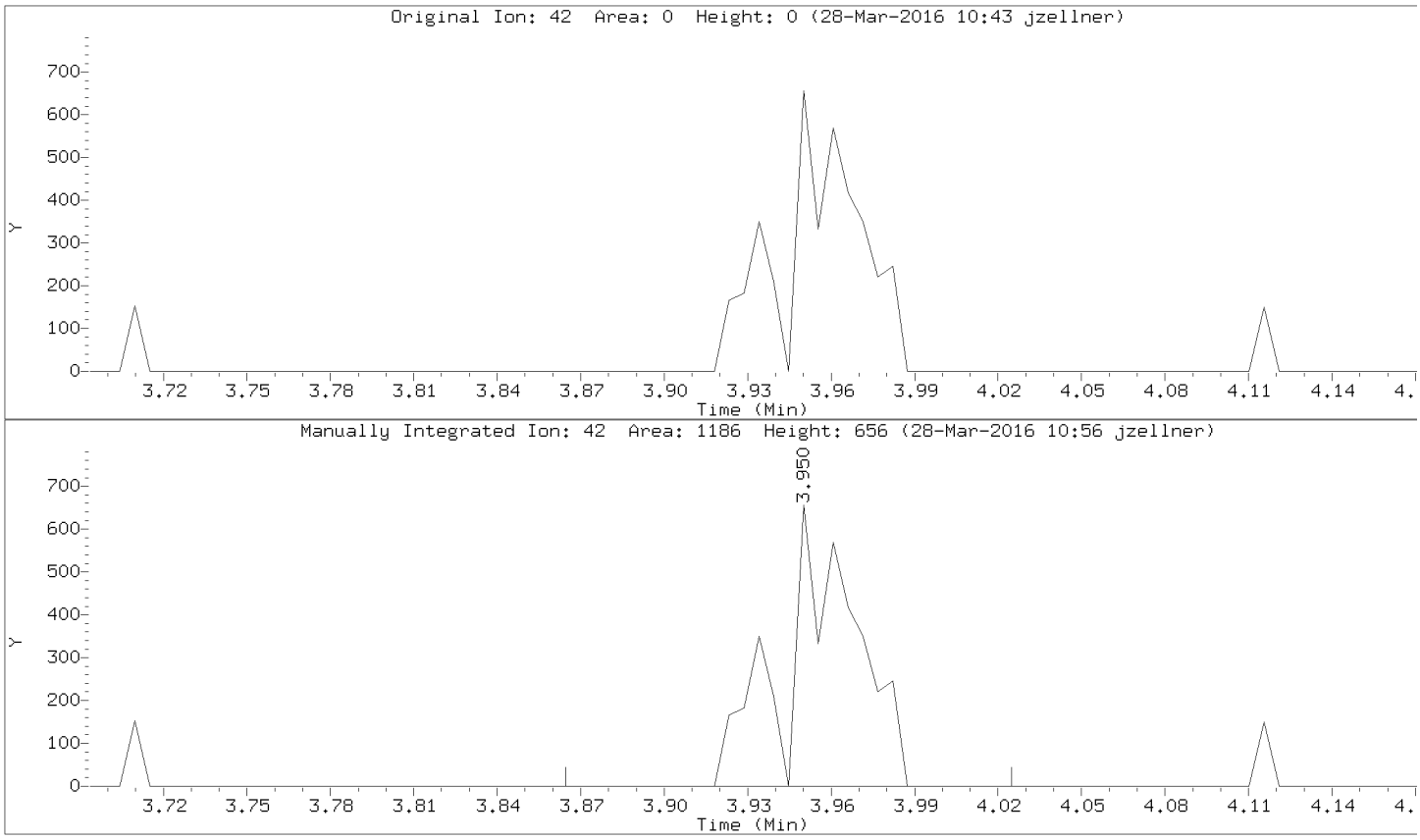






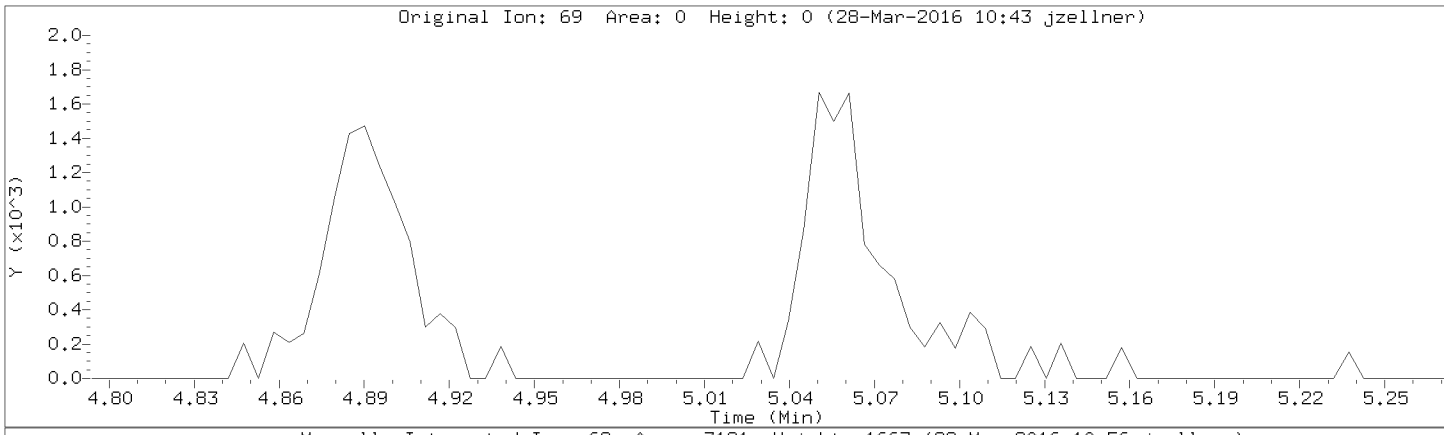


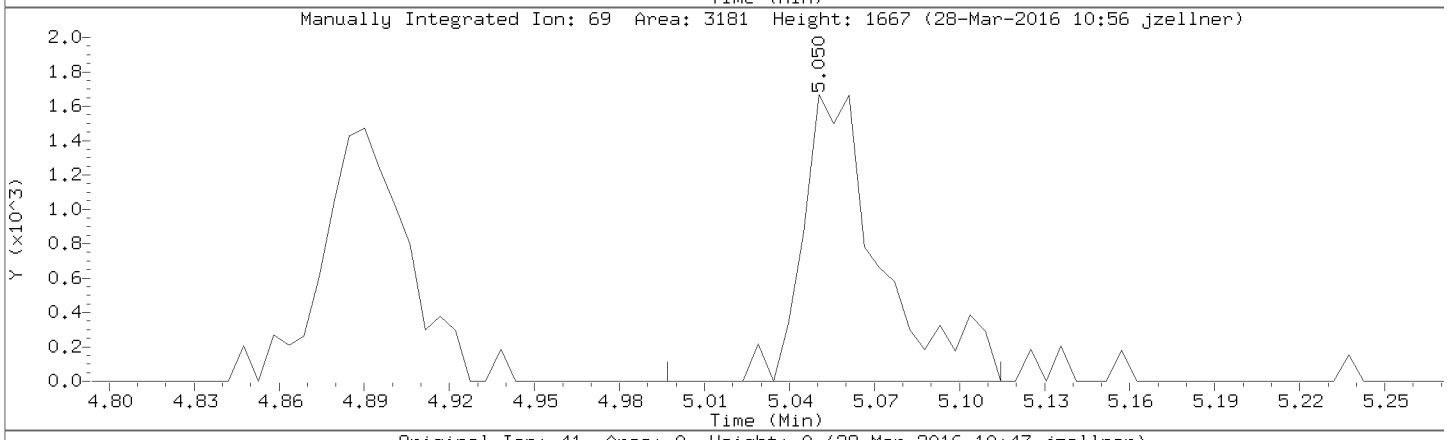
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

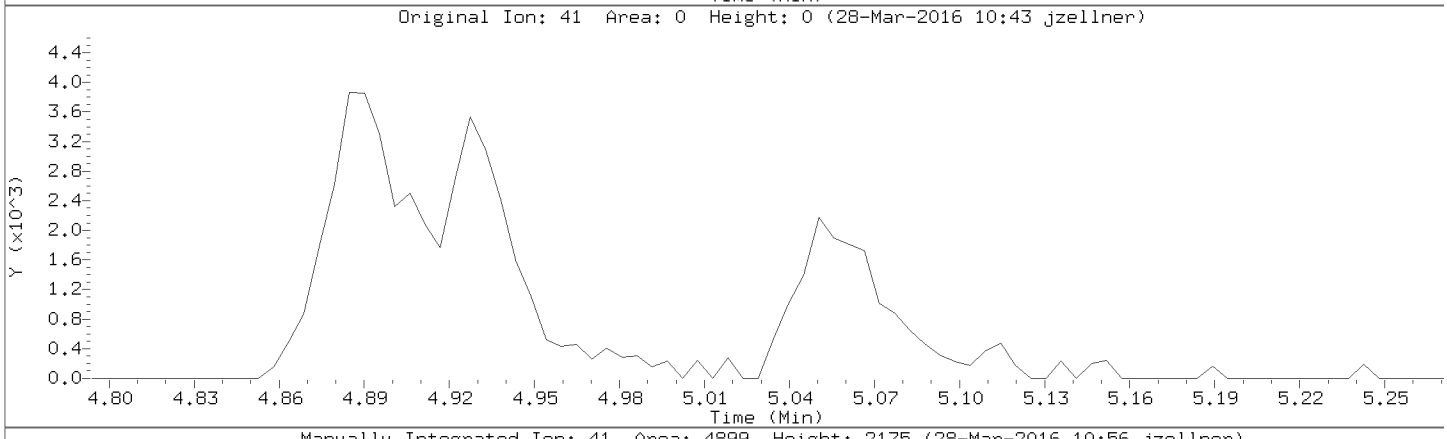


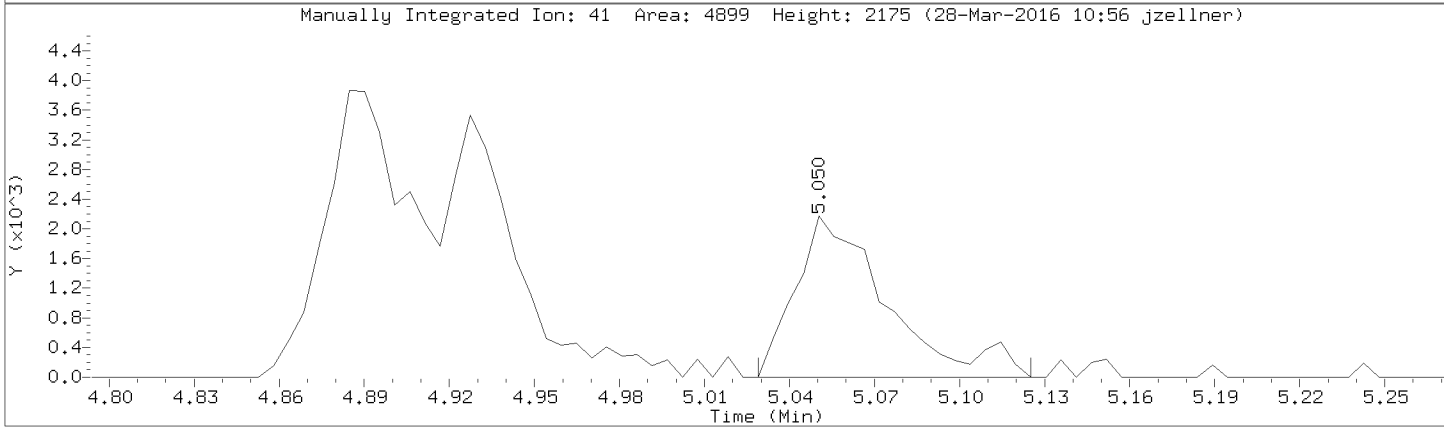
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

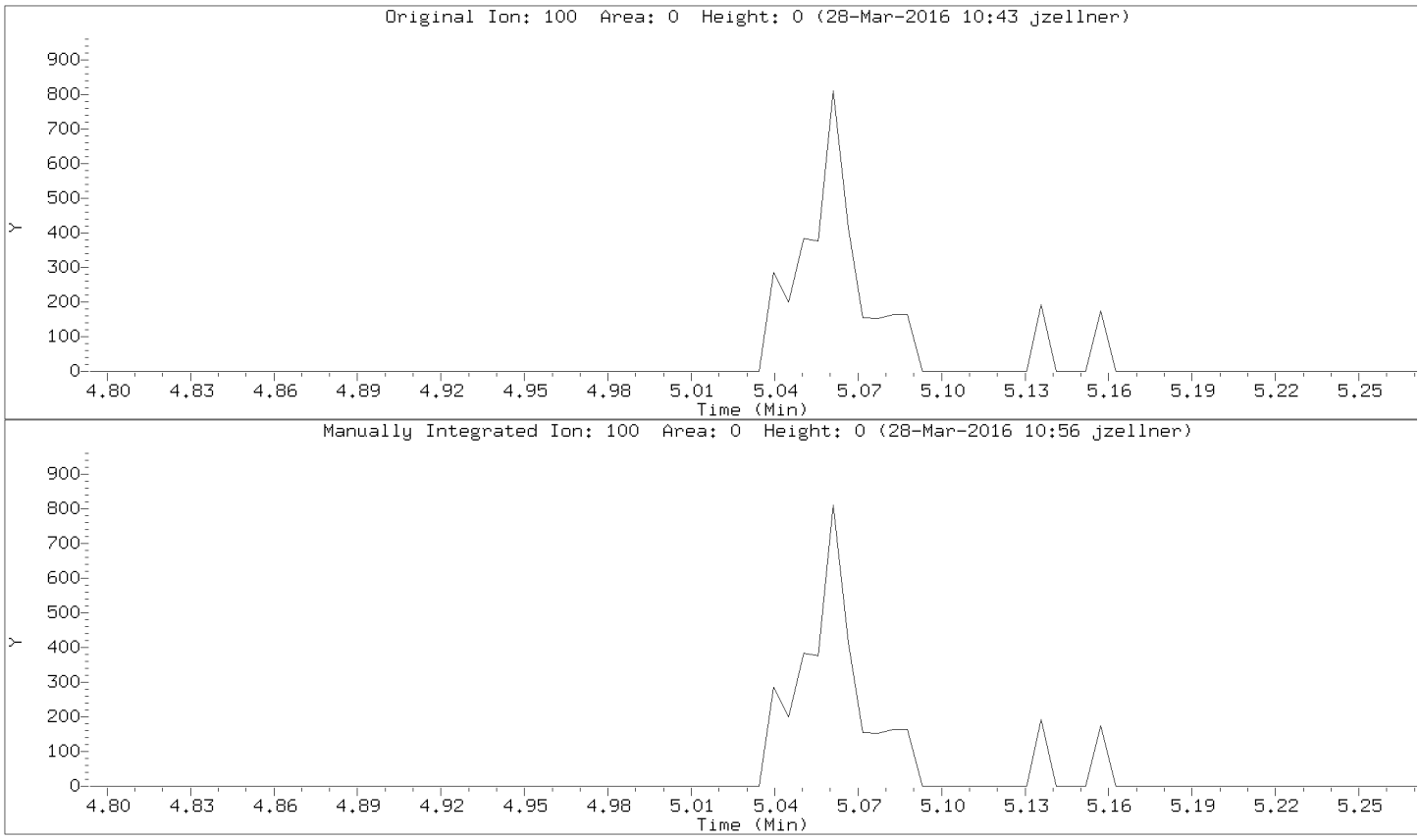






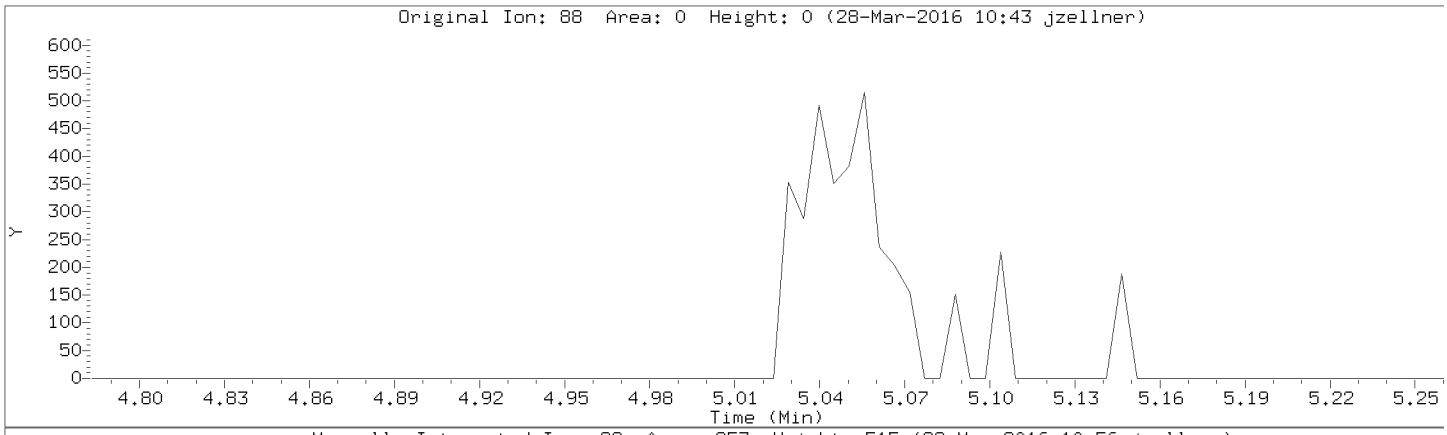


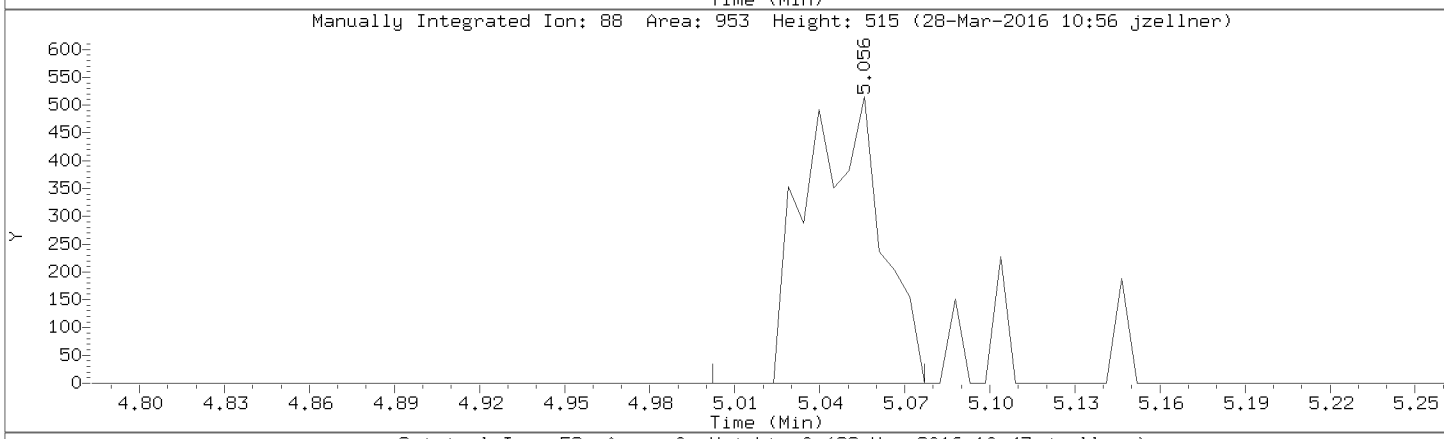
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

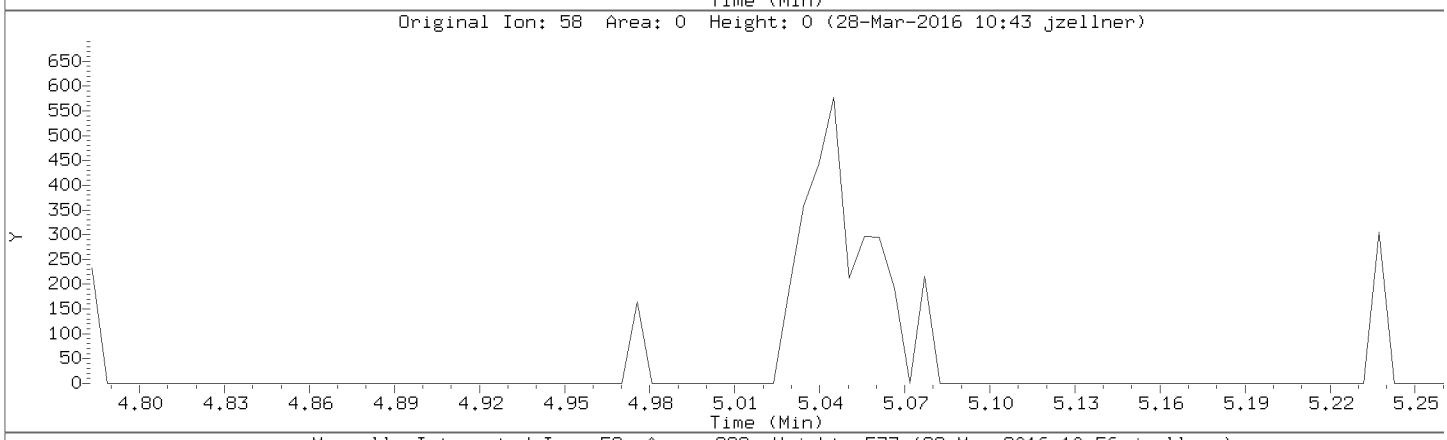


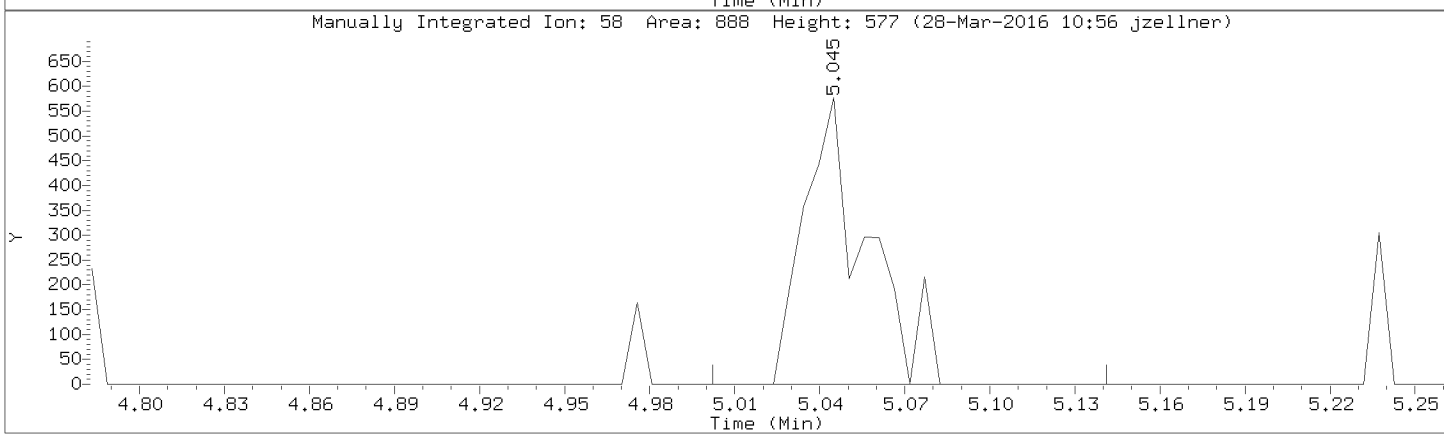
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



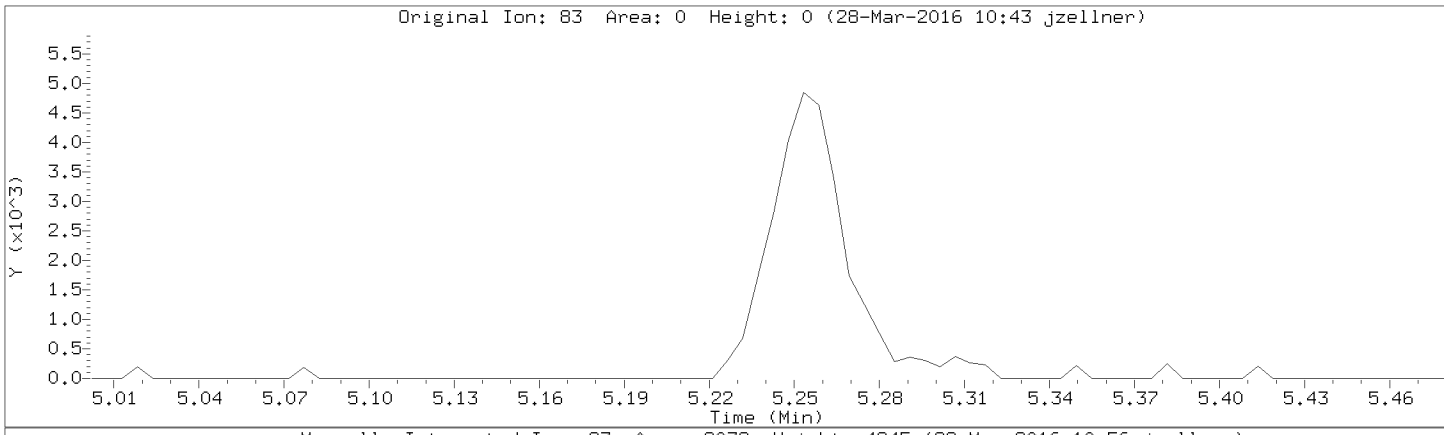


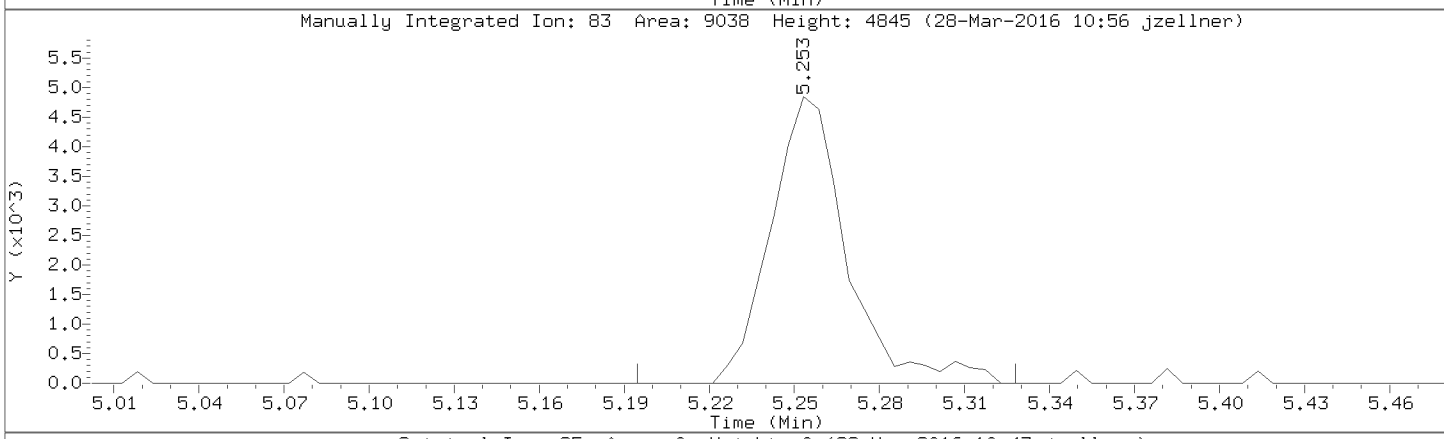


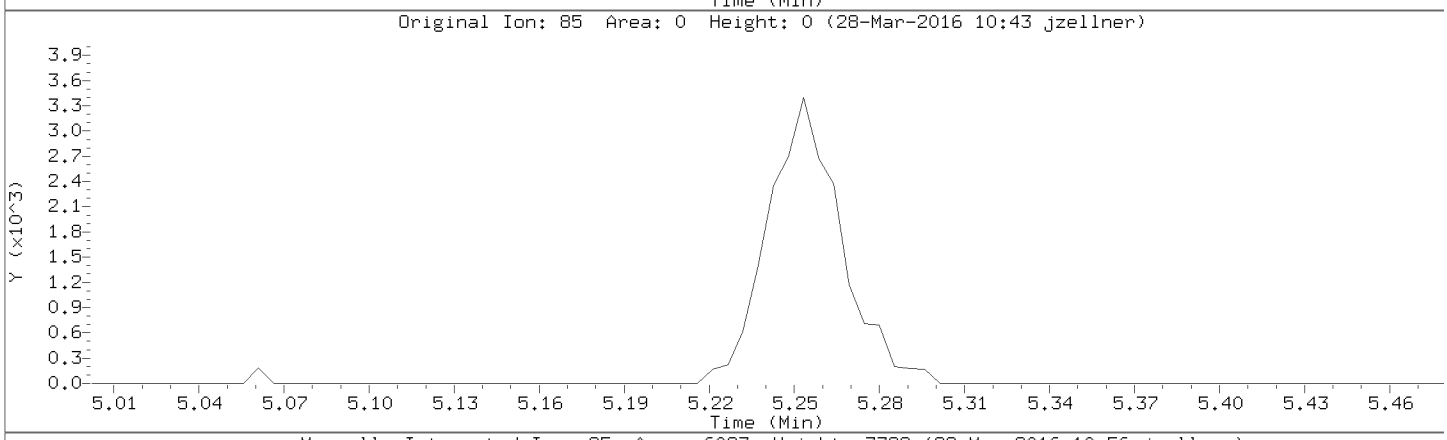


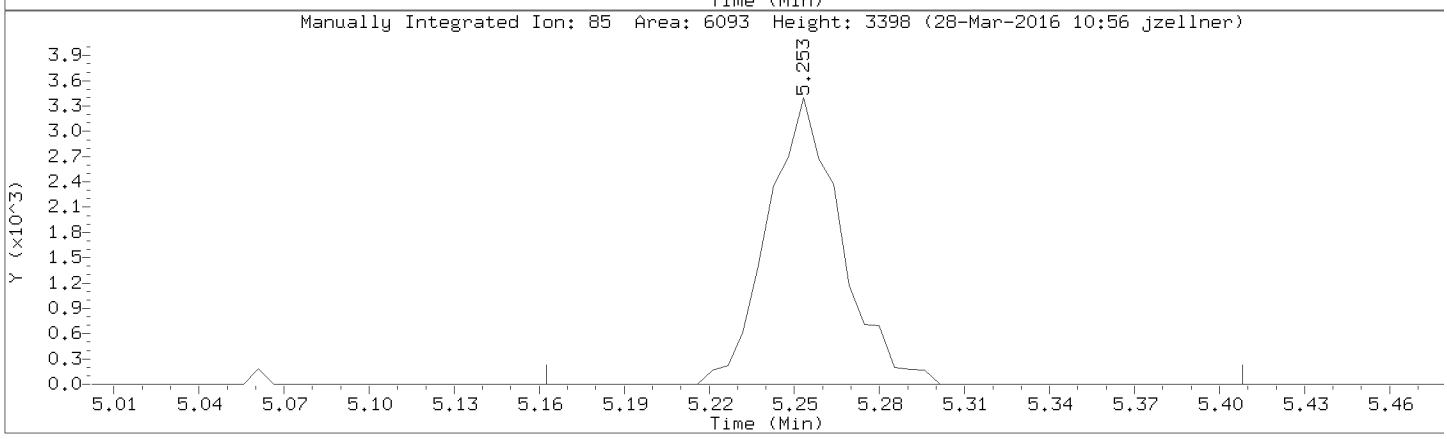
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

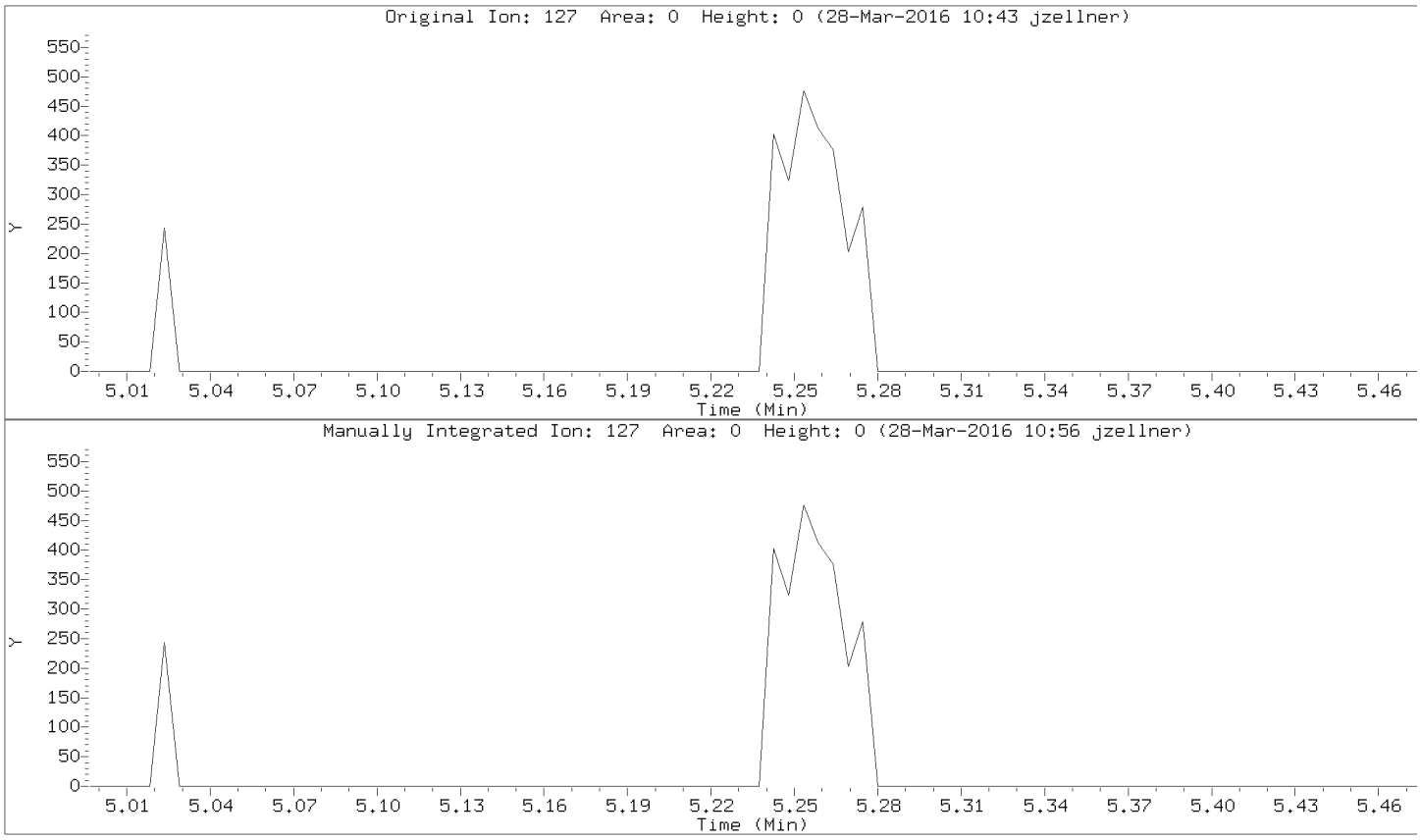






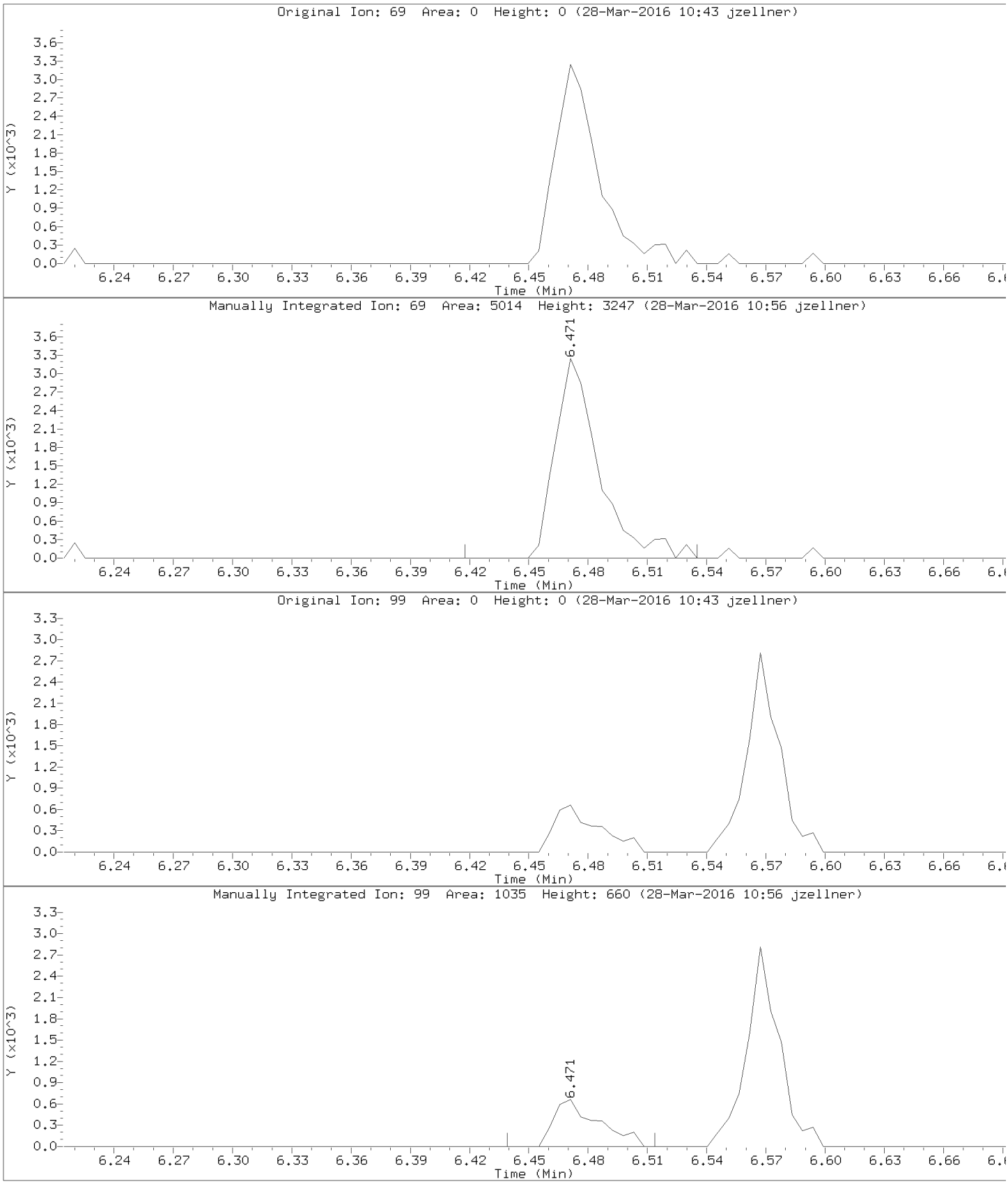


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

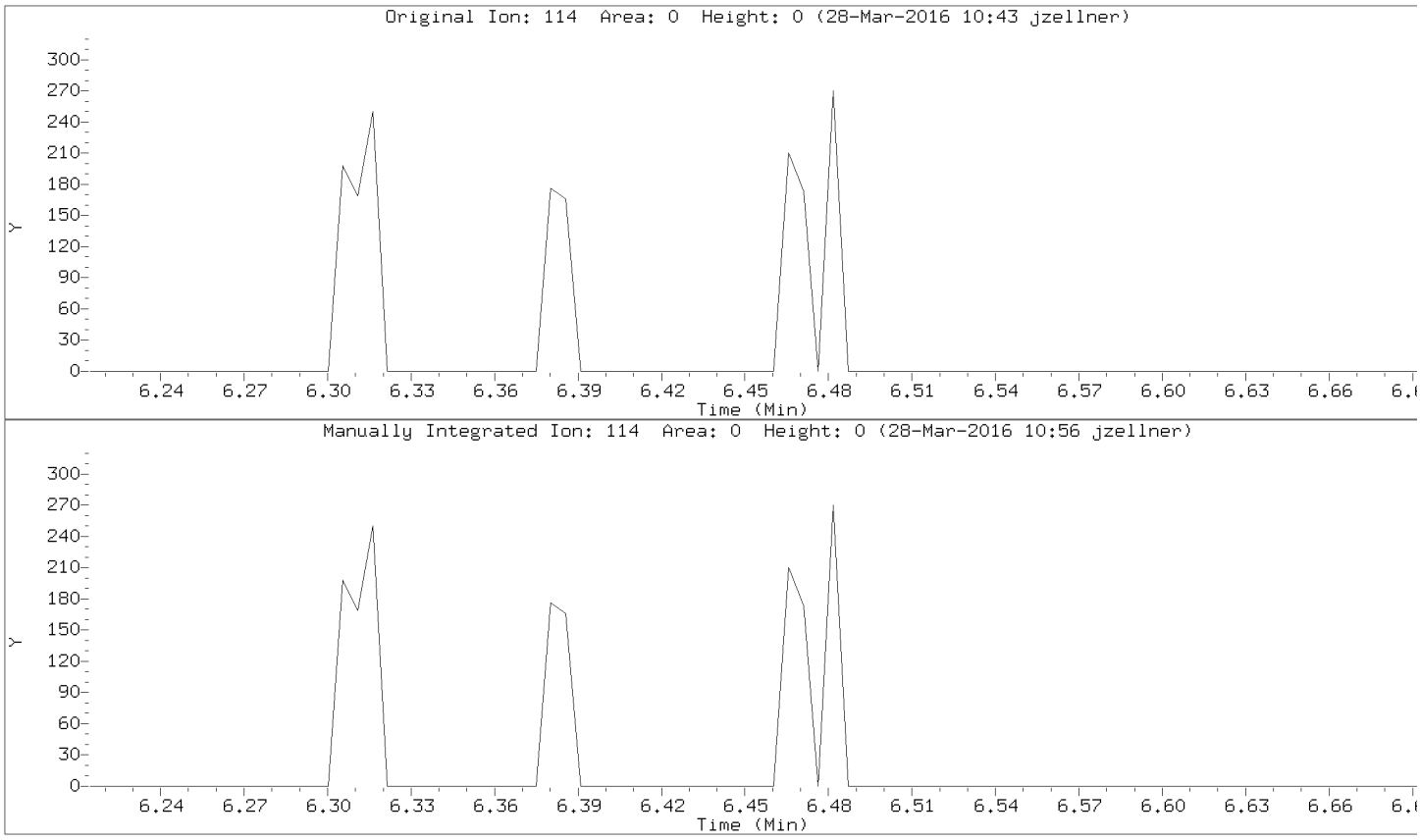


Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

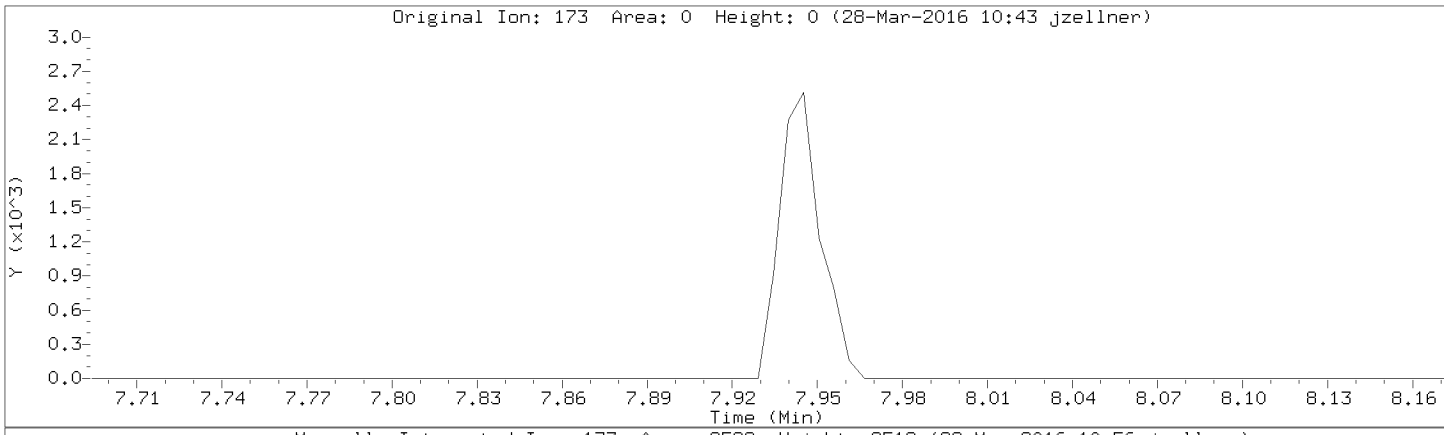


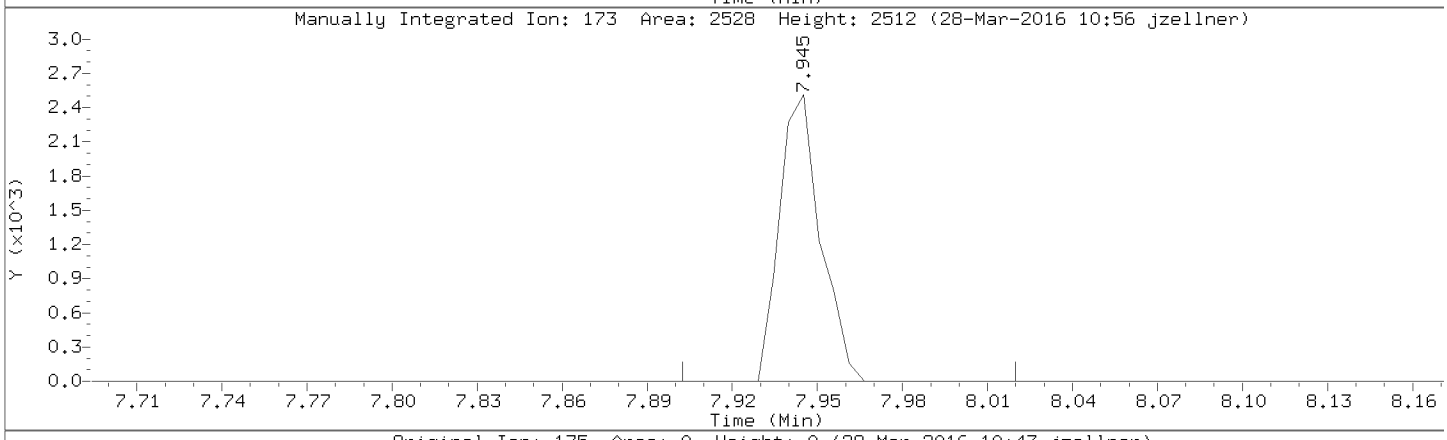
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

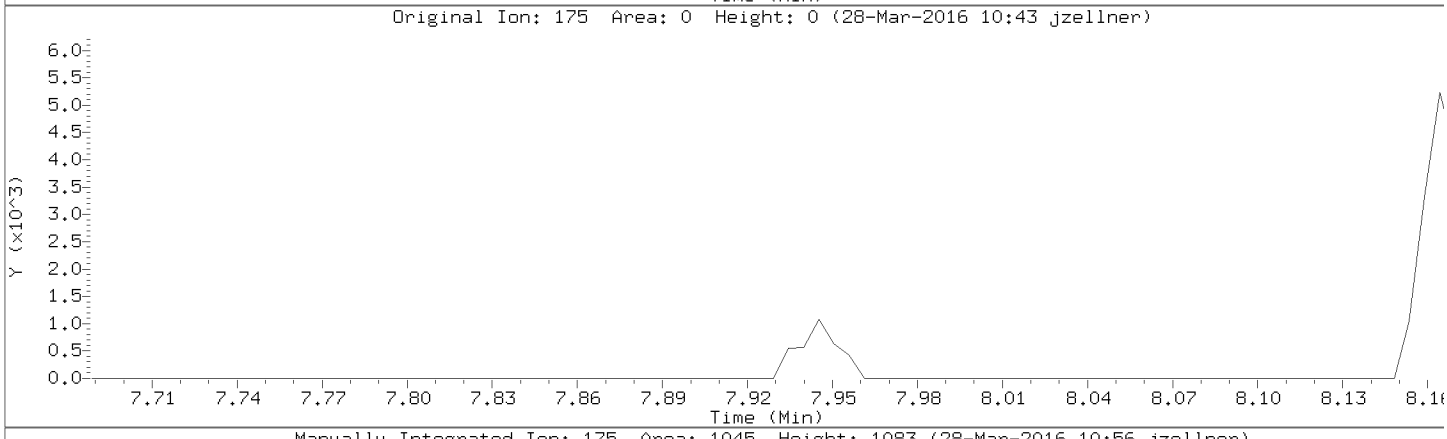


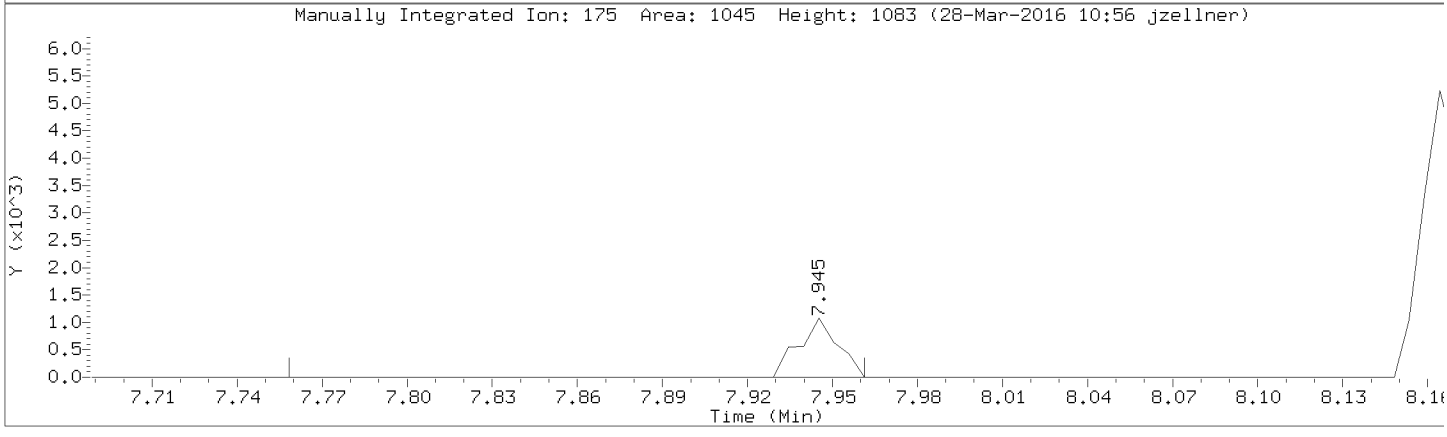
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

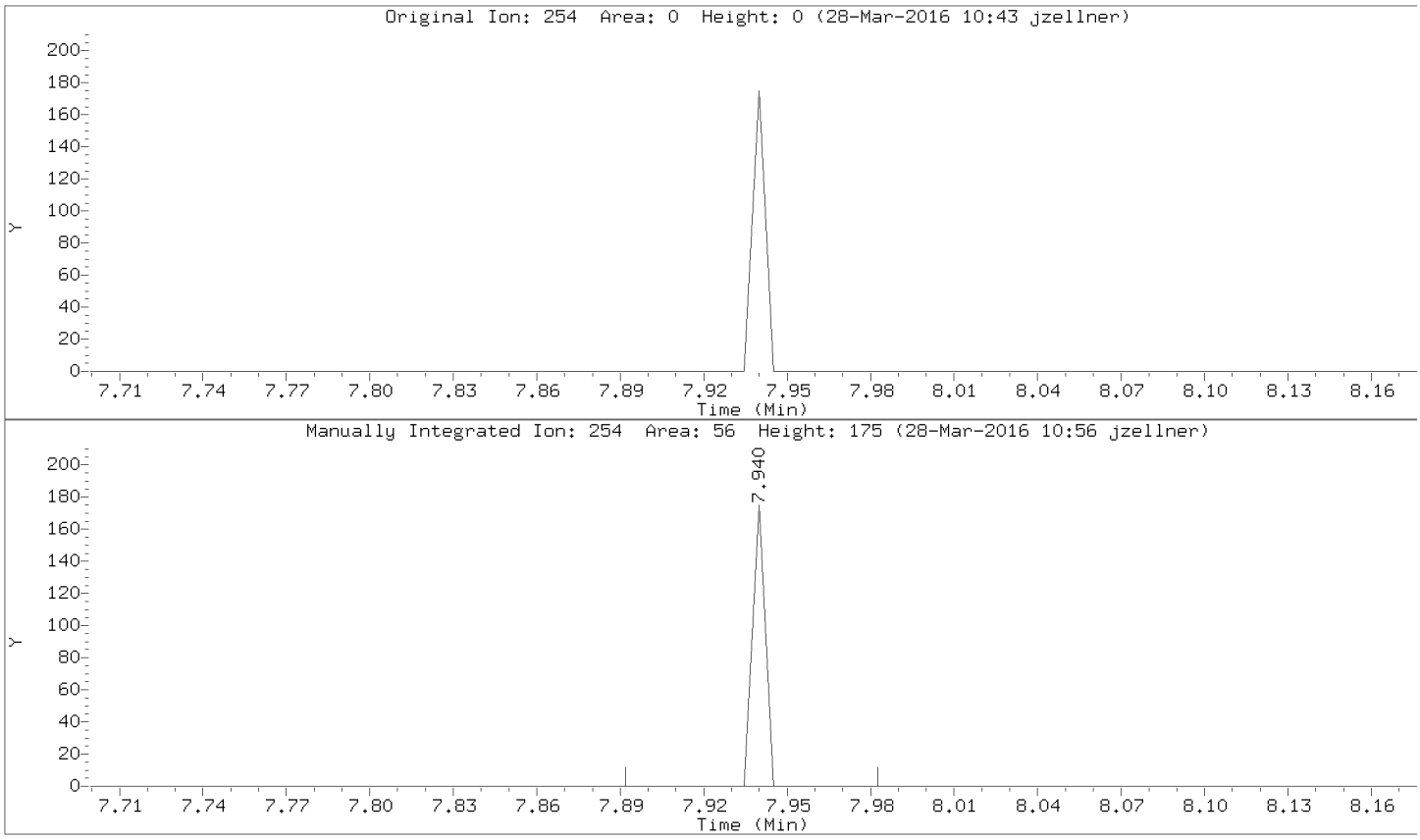






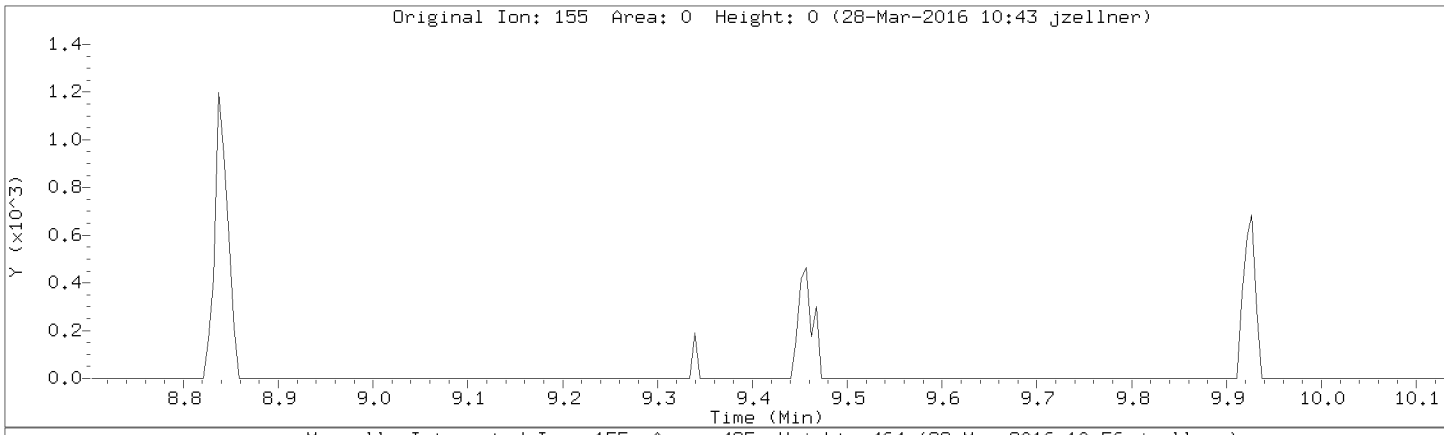


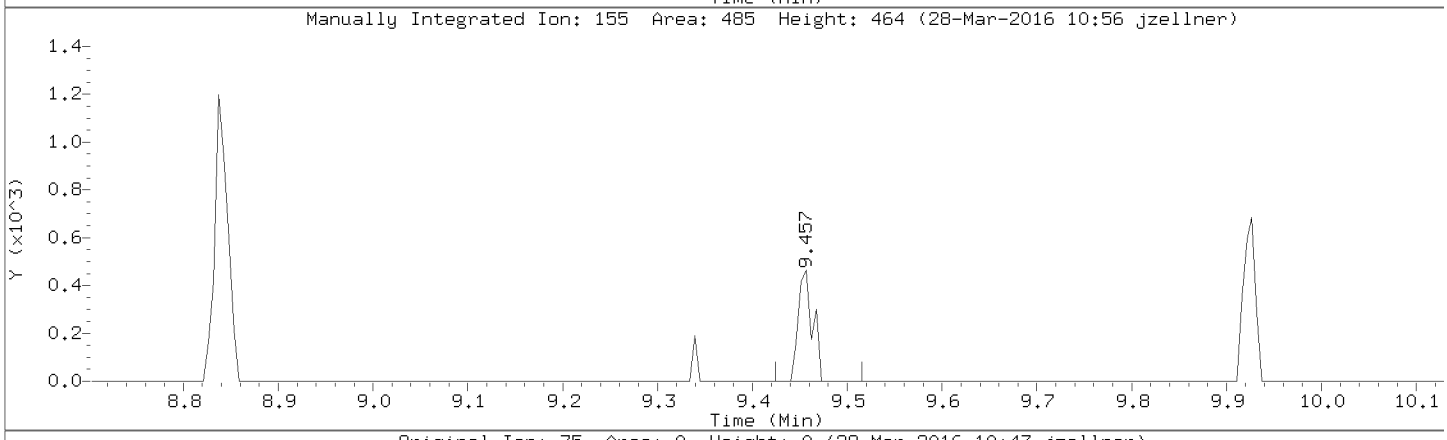
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

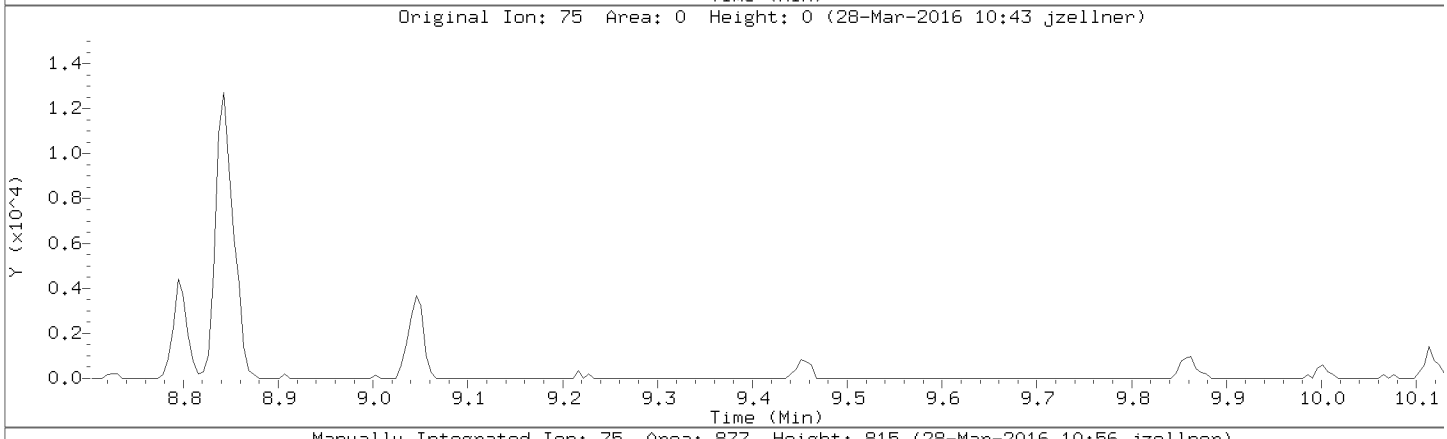


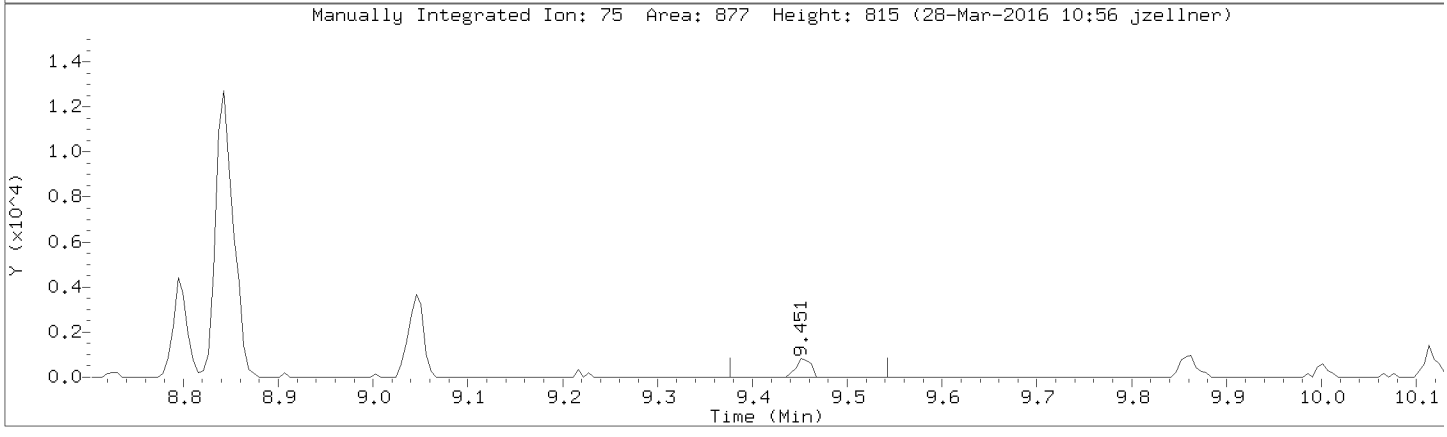
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0

Compound: 1,2-Dibromo-3-chloropropane Review Code: NI
CAS Number: 96-12-8

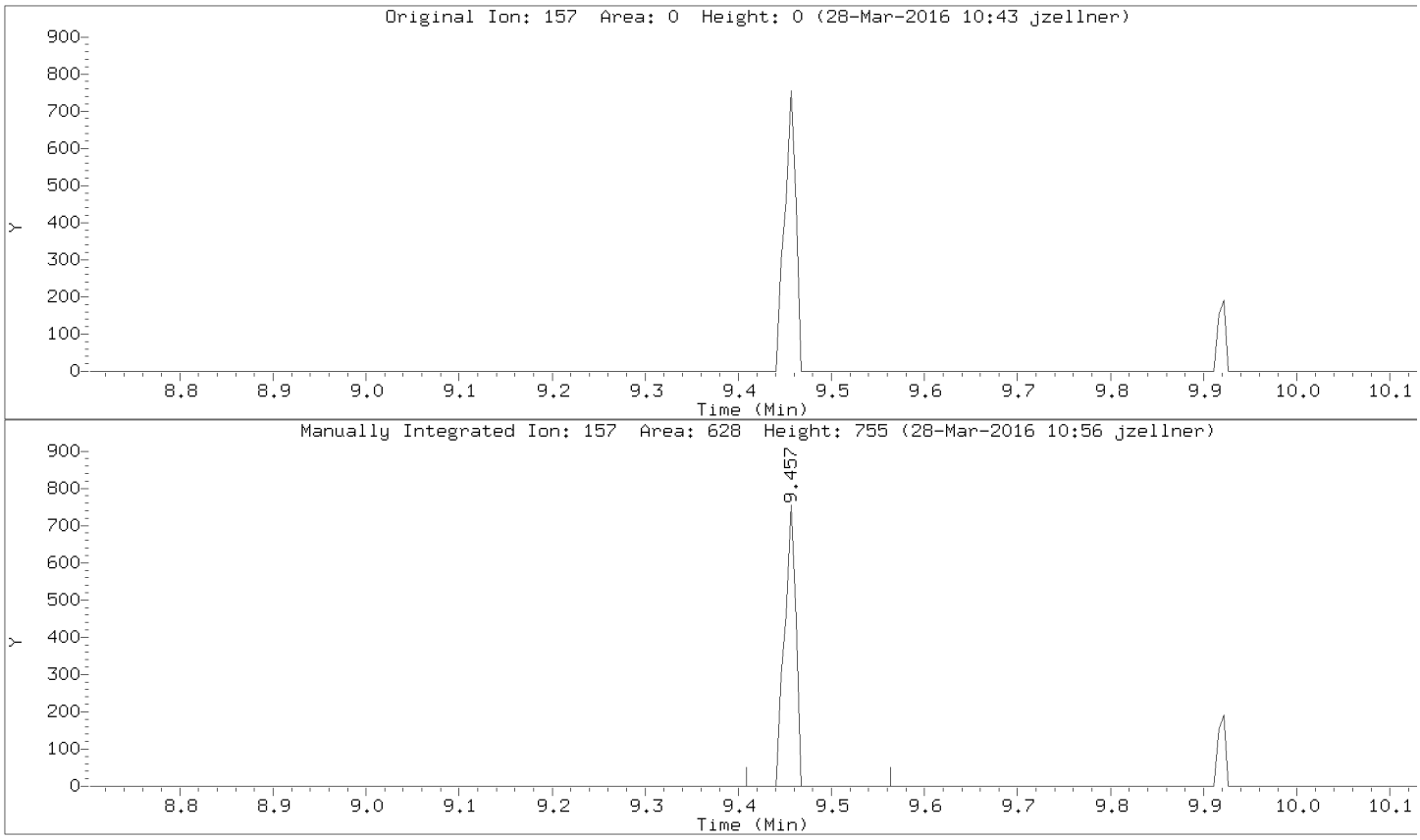








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b06cal3.d
Injection Date: 25-MAR-2016 16:57
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL3,117888:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b07cal4.d
Lab Smp Id: 8260-CAL4,117889:0
Inj Date : 25-MAR-2016 17:29
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal4,117889:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 17:29   Cal File: b07cal4.d
Als bottle: 16   Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.220)	30579	10.0000	10.9	
2	Chloromethane	50	0.996	0.997	(0.239)	45425	10.0000	10.5	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	39979	10.0000	10.8	
4	Bromomethane	94	1.188	1.189	(0.285)	19658	10.0000	11.0	
5	Chloroethane	64	1.236	1.237	(0.296)	25558	10.0000	11.4	
6	Trichlorofluoromethane	101	1.349	1.350	(0.323)	47794	10.0000	11.2	
7	Diethyl ether	74	1.477	1.472	(0.354)	11977	10.0000	9.52	
8	1,2-dichlorotrifluoroethane	67	1.493	1.488	(0.358)	34137	10.0000	10.8	
9	Acrolein	56	1.546	1.542	(0.370)	60460	200.000	202	
10	1,1,2trichlorotrifluoroethane	101	1.594	1.601	(0.382)	30065	10.0000	11.0	
11	1,1-Dichloroethene	96	1.605	1.601	(0.385)	24636	10.0000	10.6	
12	Acetone	43	1.610	1.611	(0.386)	27397	50.0000	52.6	
13	Iodomethane	142	1.685	1.686	(0.404)	45427	20.0000	17.6	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	27942	10.0000	10.0	
15	Methyl Acetate	43	1.781	1.782	(0.427)	11811	10.0000	10.1	
16	allyl chloride	41	1.797	1.798	(0.431)	79476	20.0000	20.4	
17	Acetonitrile	39	1.797	1.798	(0.431)	55606	10.0000	10.2	
18	Methylene Chloride	84	1.872	1.873	(0.449)	20198	10.0000	9.79	
19	tert-Butyl Alcohol	59	1.909	1.916	(0.458)	1959	20.0000	19.0(Q)	
20	Acrylonitrile	53	2.011	2.006	(0.482)	17876	40.0000	35.9	
21	Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	38421	10.0000	9.19	
22	1,2-Dichloroethene (trans)	96	2.048	2.044	(0.491)	21096	10.0000	10.2	
23	n-Hexane	57	2.230	2.231	(0.534)	40062	10.0000	9.29	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.337	2.338	(0.560)	112667	40.0000	33.7	
	25 1,1-Dichloroethane	63	2.347	2.348	(0.562)	37358	10.0000	9.85	
	26 Chloroprene	53	2.406	2.402	(0.576)	34489	10.0000	10.0	
	27 2-Butanone	43	2.812	2.808	(0.674)	36757	50.0000	53.9	
	28 1,2-Dichloroethene (cis)	96	2.823	2.824	(0.676)	21574	10.0000	10.5	
	29 2,2-Dichloropropane	77	2.828	2.829	(0.678)	21496	10.0000	9.04	
	30 Propionitrile	54	2.881	2.872	(0.690)	1484	10.0000	8.74(Q)	
	31 Methacrylonitrile	41	3.015	3.011	(0.722)	8192	10.0000	9.00	
	32 Bromochloromethane	49	3.058	3.053	(0.733)	15766	10.0000	10.5	
	33 Tetrahydrofuran	42	3.084	3.080	(0.739)	3017	10.0000	7.93	
	34 Chloroform	83	3.164	3.165	(0.758)	33559	10.0000	10.0	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	87490	50.0000	50.2	
	36 1,1,1-Trichloroethane	97	3.346	3.342	(0.802)	29219	10.0000	10.0	
	37 Cyclohexane	56	3.432	3.427	(0.822)	39140	10.0000	10.1	
	151 n-Butyl chloride	56	3.490	3.491	(0.836)	45203	10.0000	9.68	
	38 Carbon Tetrachloride	117	3.528	3.523	(0.845)	24230	10.0000	9.97	
	39 1,1-Dichloropropene	75	3.533	3.534	(0.846)	30028	10.0000	10.5	
	40 Benzene	78	3.779	3.774	(0.905)	82962	10.0000	10.5	
	41 1,2-Dichloroethane	62	3.864	3.860	(0.926)	22196	10.0000	10.1	
	42 Isobutyl alcohol	43	3.950	3.951	(0.946)	16457	10.0000	9.05	
	43 2,2,4-Trimethylpentane	57	3.950	3.951	(0.946)	90919	10.0000	10.5	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	380440	50.0000		
	45 Trichloroethene	95	4.623	4.624	(1.107)	19460	10.0000	10.2	
	46 Methylcyclohexane	55	4.890	4.891	(1.171)	28692	10.0000	10.0	
	47 1,2-Dichloropropane	63	4.932	4.928	(1.182)	17754	10.0000	9.71	
	48 Methyl methacrylate	69	5.050	5.046	(1.210)	5950	10.0000	7.49	
	49 Dibromomethane	93	5.029	5.024	(1.205)	8149	10.0000	9.60	
	50 1,4-Dioxane	88	5.034	5.035	(1.206)	1672	200.000	151(Q)	
	51 Bromodichloromethane	83	5.253	5.254	(1.258)	19443	10.0000	9.39	
	52 2-Chloroethyl vinyl ether	63	5.611	5.601	(0.764)	12102	20.0000	21.5	
	53 cis-1,3-Dichloropropene	75	5.750	5.745	(0.783)	21530	10.0000	9.62	
	54 4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	51868	50.0000	45.7	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	323726	50.0000	50.1	
	56 Toluene	91	6.097	6.092	(0.830)	81199	10.0000	9.64	
	57 trans-1,3-Dichloropropene	75	6.380	6.381	(0.868)	14760	10.0000	9.18	
	58 Ethyl Methacrylate	69	6.471	6.466	(0.881)	12170	10.0000	8.91(M)	NI
	59 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	9494	10.0000	9.95	
	60 Tetrachloroethene	166	6.620	6.621	(0.901)	17350	10.0000	10.1	
	61 1,3-Dichloropropane	76	6.706	6.707	(0.913)	20620	10.0000	9.93	
	62 2-Hexanone	43	6.780	6.776	(0.923)	34097	50.0000	46.6	
	63 Dibromochloromethane	129	6.893	6.888	(0.938)	10359	10.0000	9.64	
	64 1,2-Dibromoethane	107	6.973	6.974	(0.949)	9945	10.0000	9.83	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	200099	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	40923	10.0000	9.92	
	67 1,1,1,2-Tetrachloroethane	131	7.443	7.444	(1.013)	10895	10.0000	8.92	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	25037	10.0000	10.4	
	69 m&p-Xylene	106	7.549	7.550	(1.028)	58515	20.0000	20.1	
	70 o-Xylene	106	7.811	7.807	(1.063)	25644	10.0000	9.74	
	71 Styrene	104	7.827	7.823	(1.065)	42573	10.0000	9.65	
	72 Bromoform	173	7.945	7.946	(0.899)	3946	10.0000	7.91(M)	NI
	73 Isopropylbenzene	105	8.052	8.053	(1.096)	70822	10.0000	10.1	
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	88081	50.0000	50.1	
	75 Bromobenzene	77	8.244	8.245	(1.122)	24552	10.0000	9.36	
	76 1,1,2,2-Tetrachloroethane	83	8.255	8.256	(0.934)	10963	10.0000	9.06	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
77 trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	2956	10.0000	9.66(QM)	WP
78 1,2,3-Trichloropropane	110	8.281	8.282	(0.937)	3115	10.0000	9.39(Q)	
79 n-Propylbenzene	91	8.313	8.314	(0.940)	87763	10.0000	10.3	
80 2-Chlorotoluene	91	8.361	8.362	(0.946)	47155	10.0000	10.1	
81 1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	55263	10.0000	10.3	
82 4-Chlorotoluene	126	8.436	8.437	(0.954)	15228	10.0000	9.66	
83 tert-Butylbenzene	119	8.602	8.603	(0.973)	57391	10.0000	9.66	
84 1,2,4-Trimethylbenzene	105	8.634	8.635	(0.976)	54576	10.0000	9.94	
85 sec-Butylbenzene	105	8.725	8.731	(0.987)	73565	10.0000	10.4	
86 1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	26439	10.0000	9.68	
87 p-Isopropyltoluene	119	8.815	8.811	(0.997)	59740	10.0000	10.1	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	81322	50.0000		
89 1,4-Dichlorobenzene	146	8.853	8.854	(1.001)	26392	10.0000	9.77	
90 n-Butylbenzene	91	9.034	9.030	(1.022)	60408	10.0000	10.2	
91 1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	23586	10.0000	9.55	
92 1,2-Dibromo-3-chloropropane	155	9.451	9.452	(1.069)	1054	10.0000	10.1	
93 1,2,4-Trichlorobenzene	180	9.862	9.858	(1.115)	13469	10.0000	9.46	
94 Hexachlorobutadiene	225	9.926	9.927	(1.123)	7662	10.0000	9.10	
95 Naphthalene	128	10.001	10.002	(1.131)	29292	10.0000	9.39	
96 1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	12762	10.0000	9.69	
97 2,methyl-naphthalene	142	10.631	10.632	(1.202)	16258	10.0000	8.78	
98 1-Methylnaphthalene	142	10.743	10.744	(1.215)	14349	10.0000	8.83	

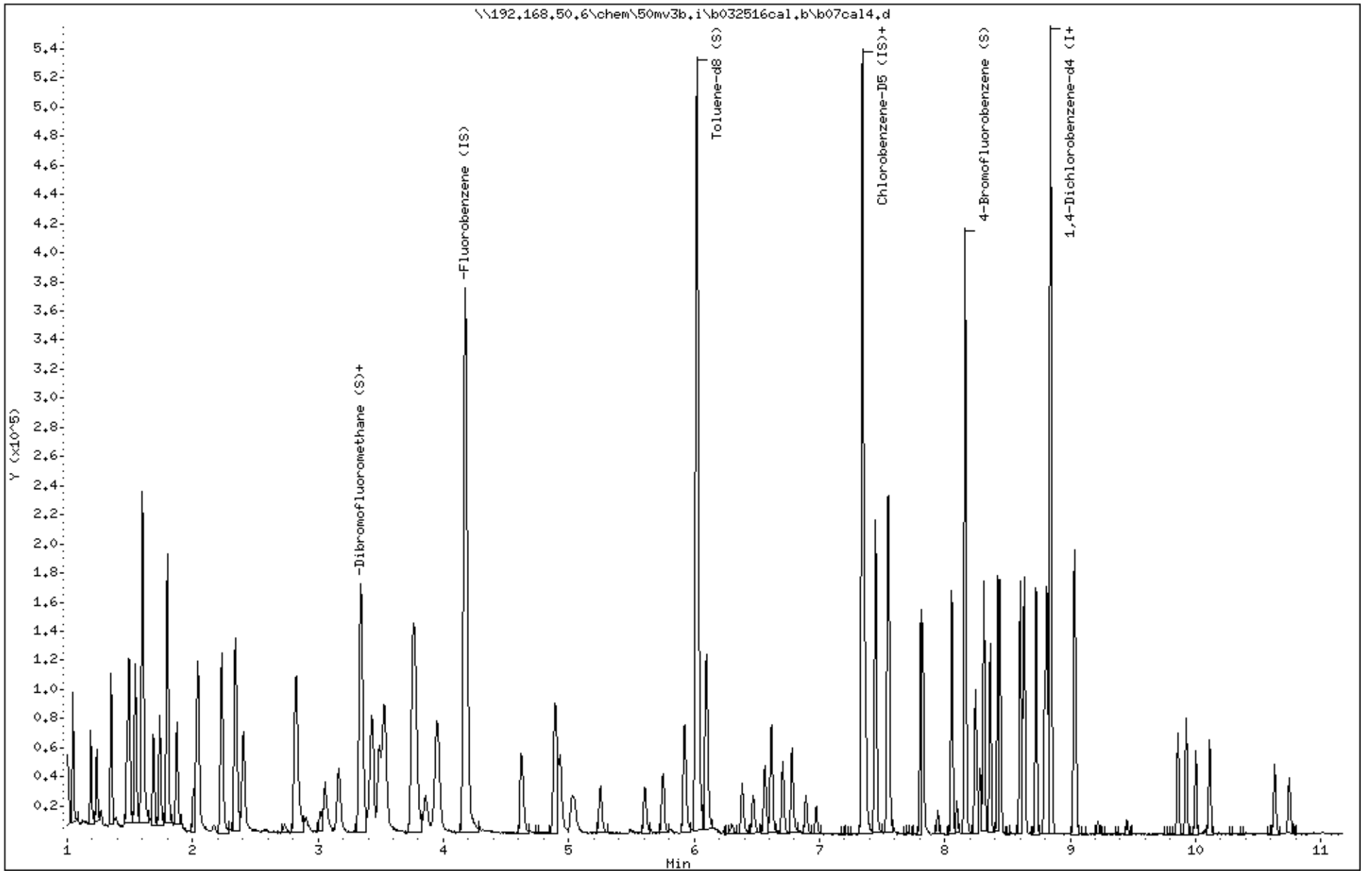
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

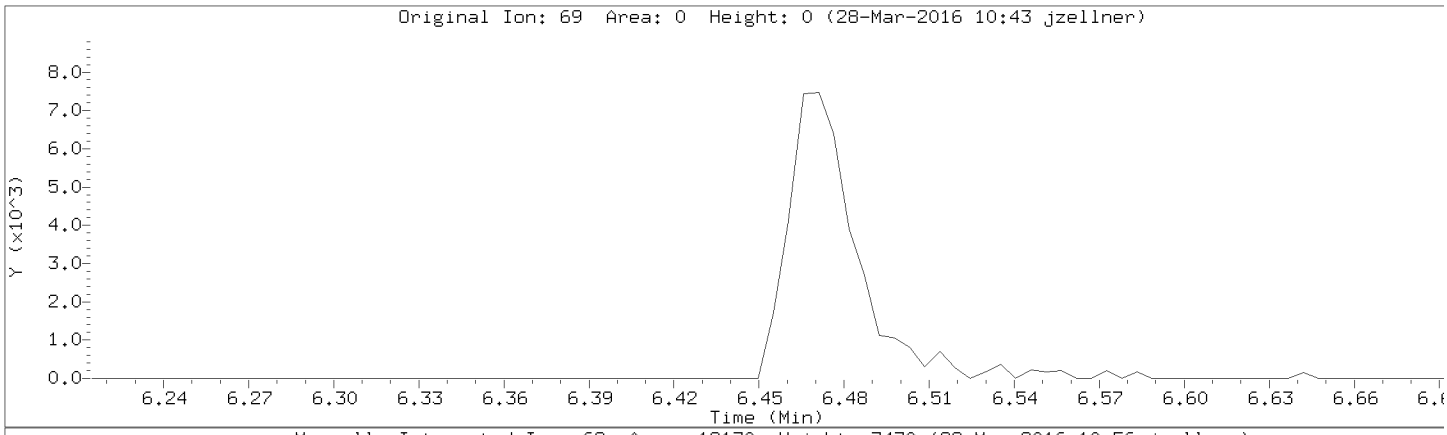
:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

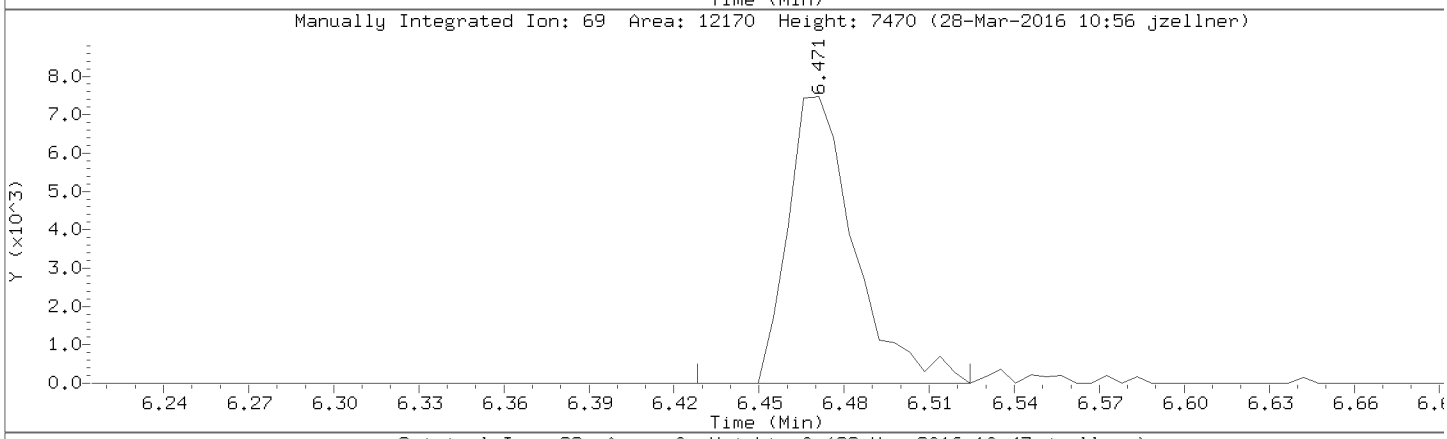
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b07cal4.d
Date : 25-MAR-2016 17:29
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL4,117889:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

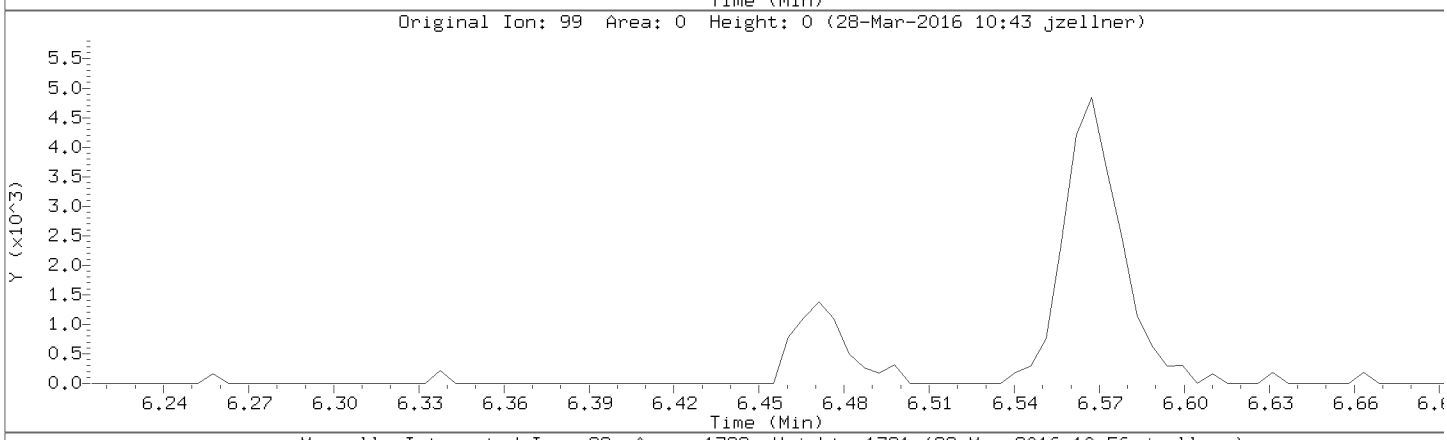


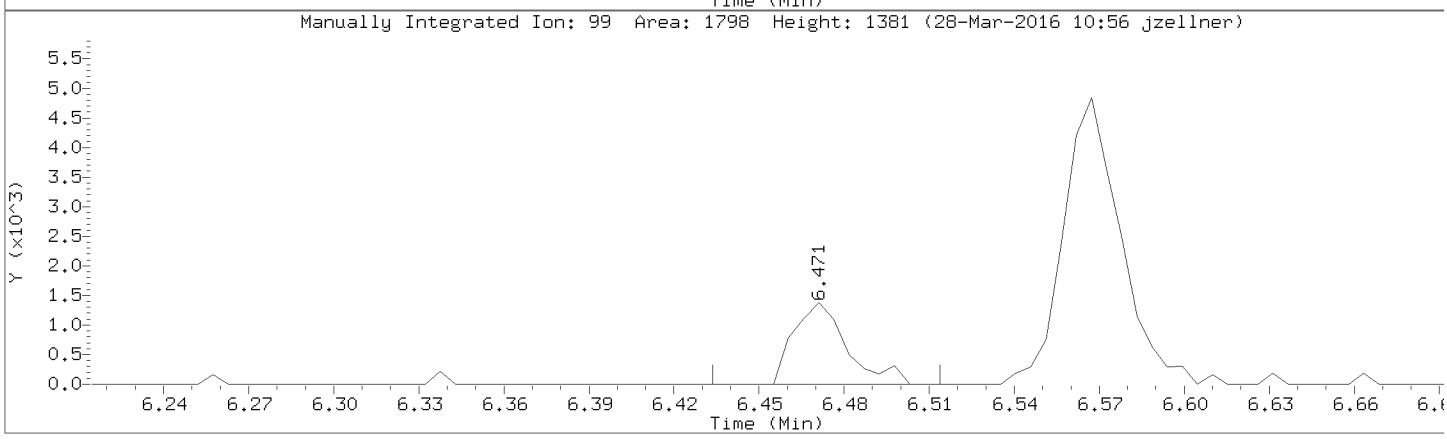
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

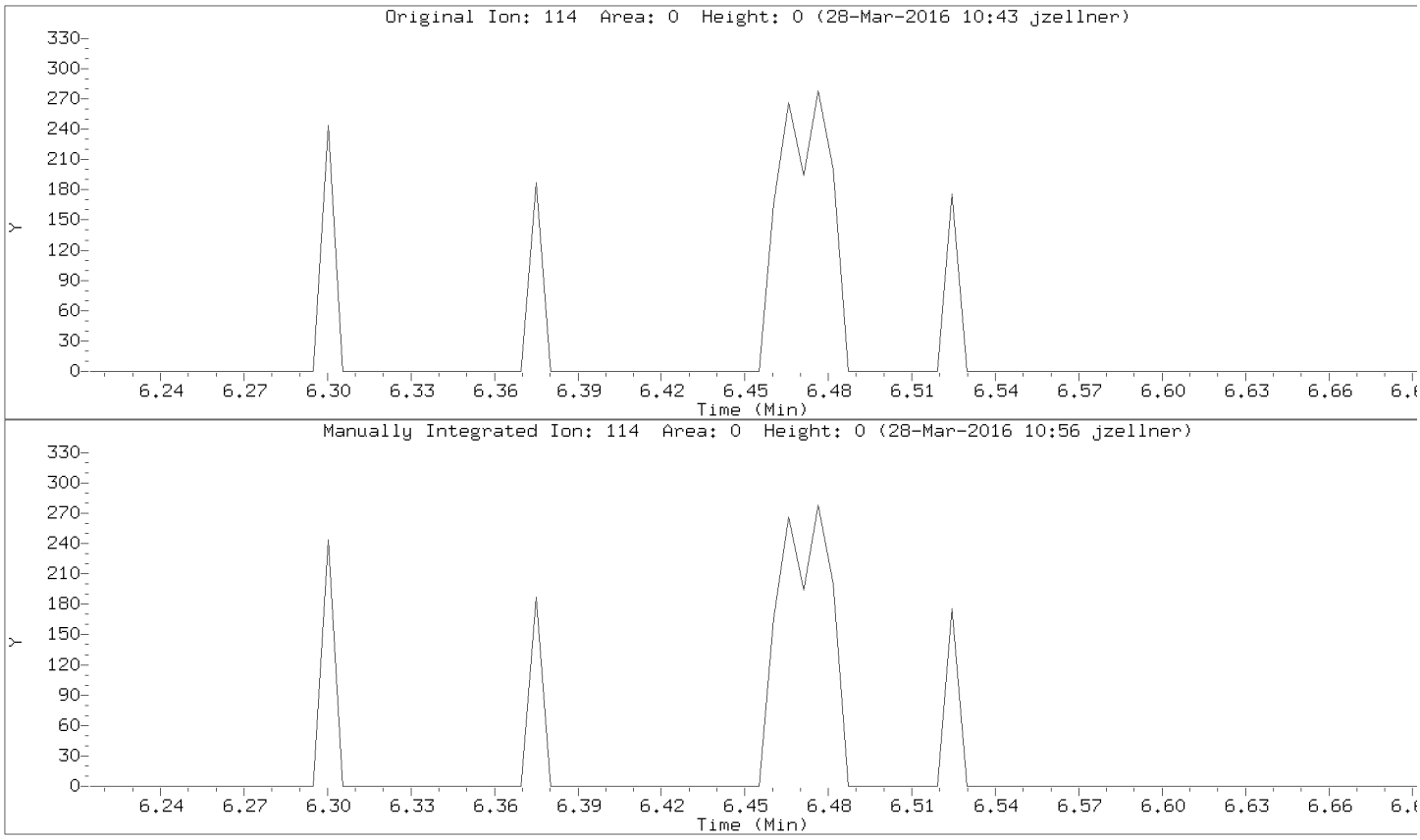






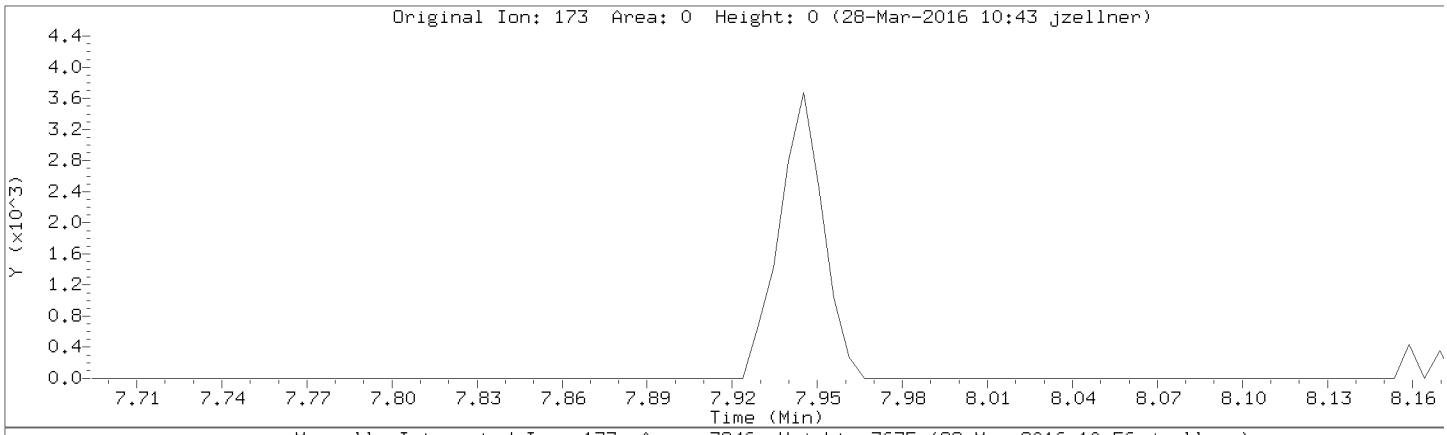


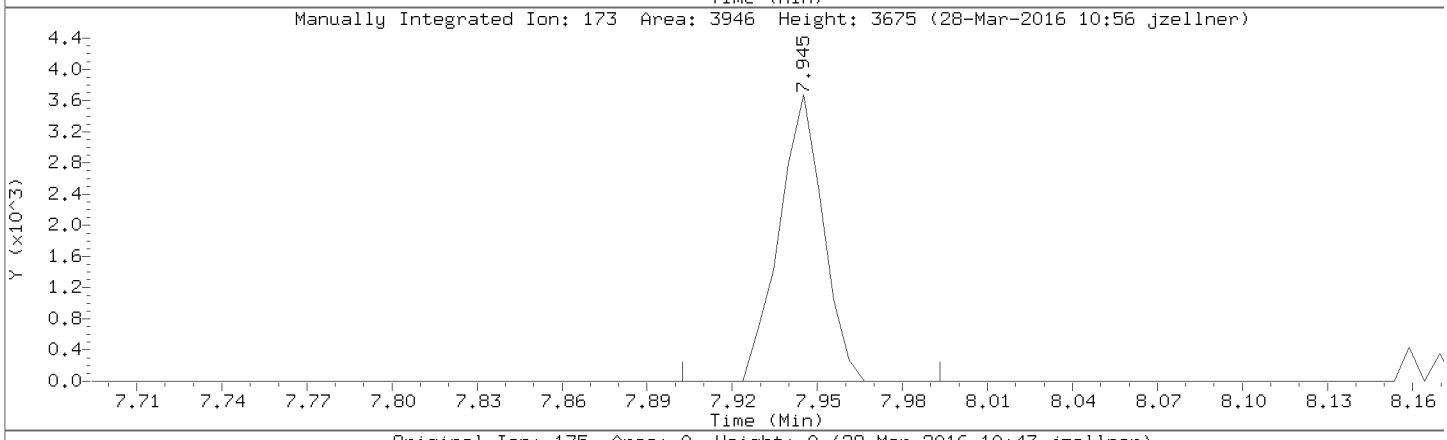
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0

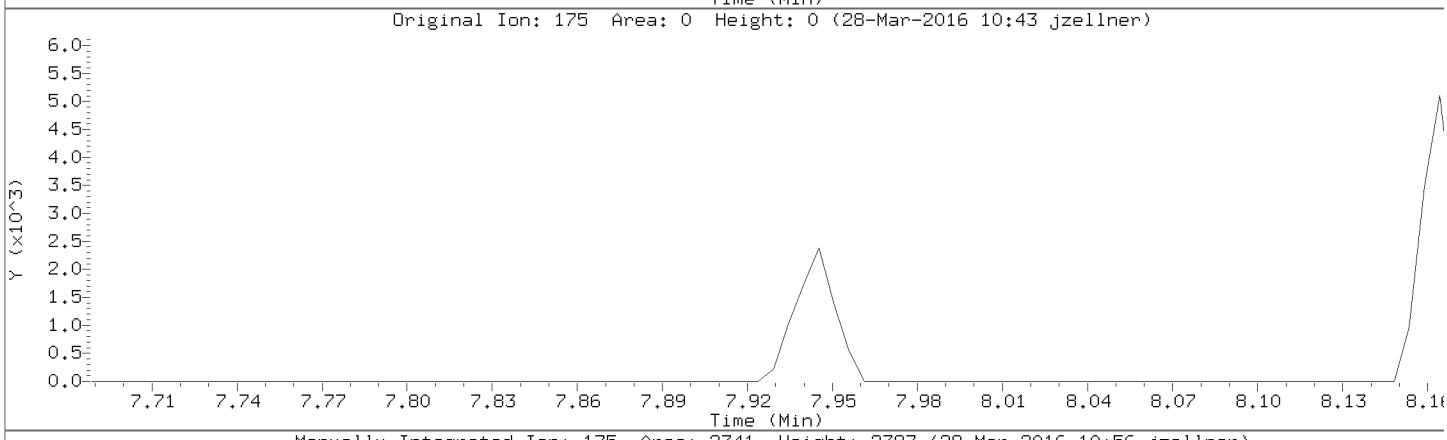


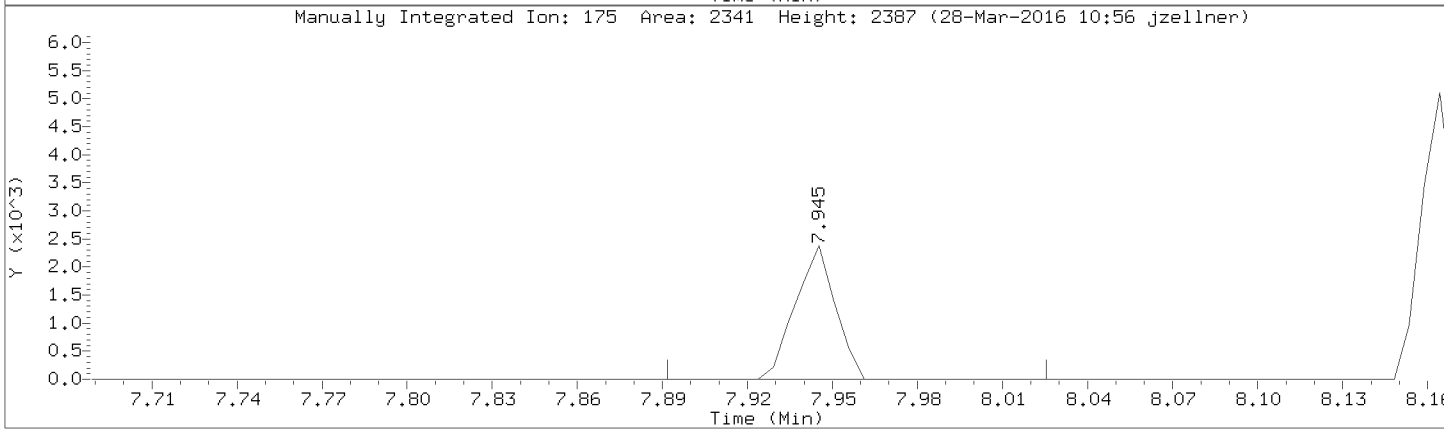
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

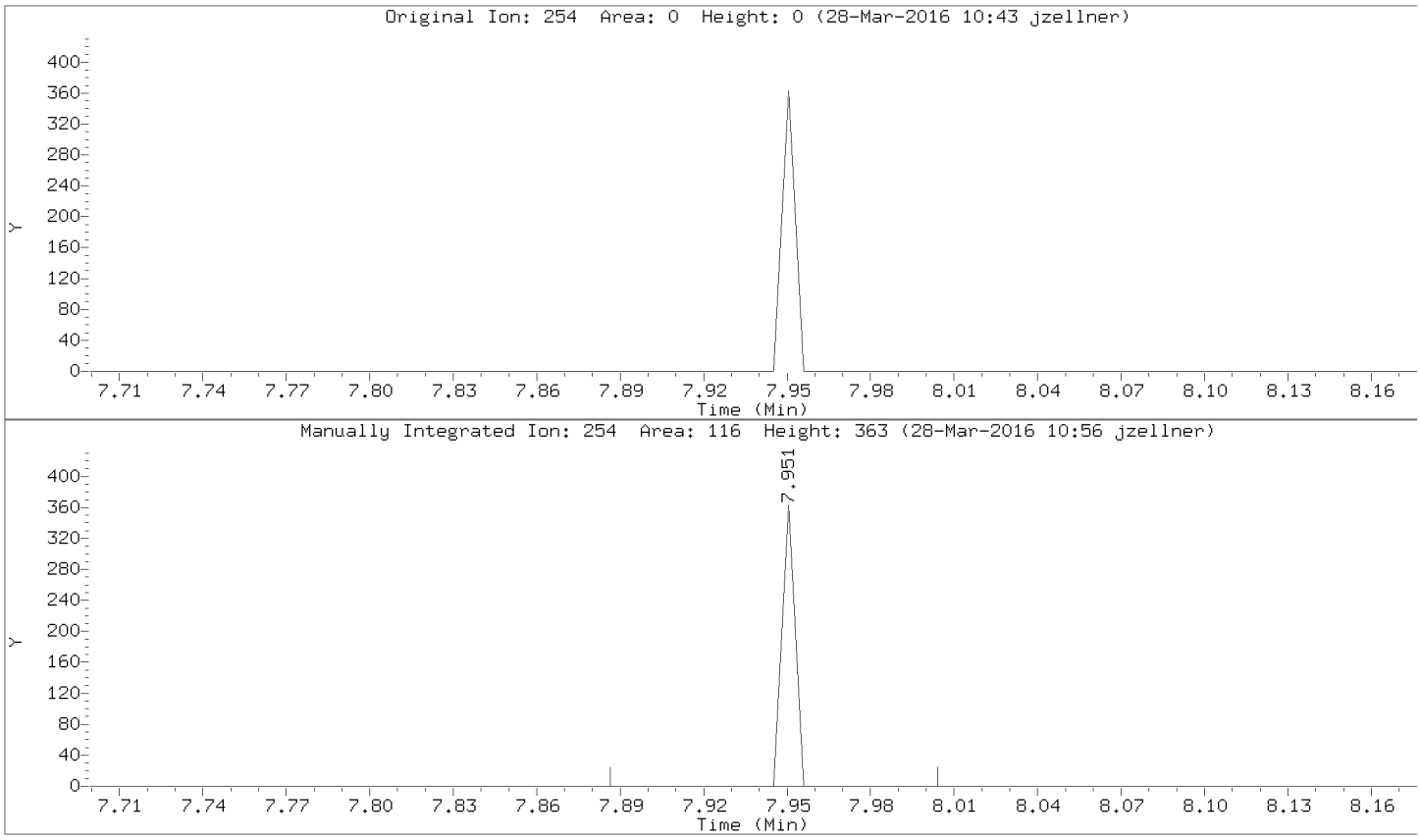






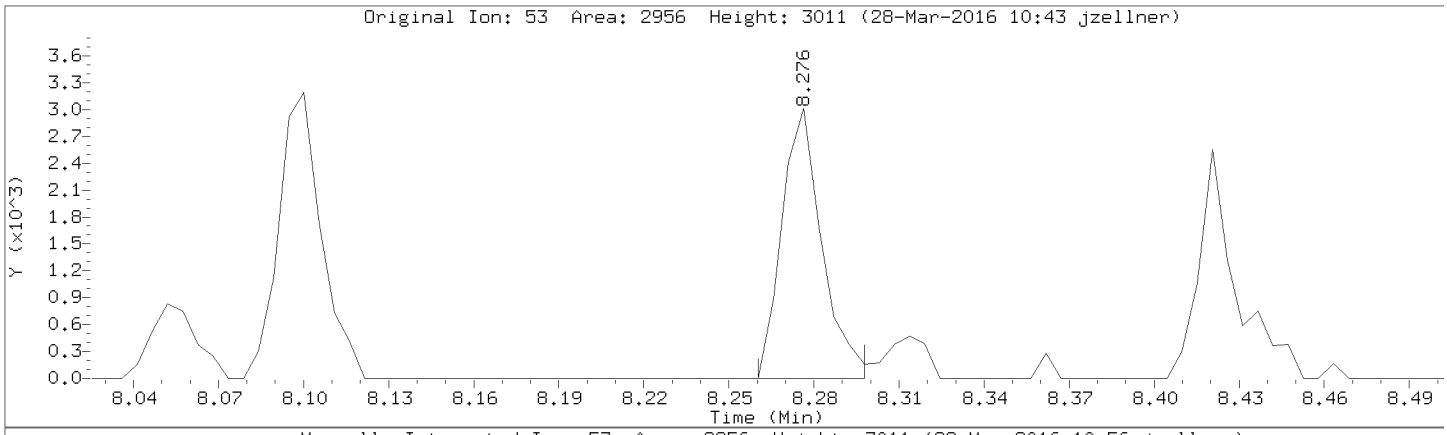


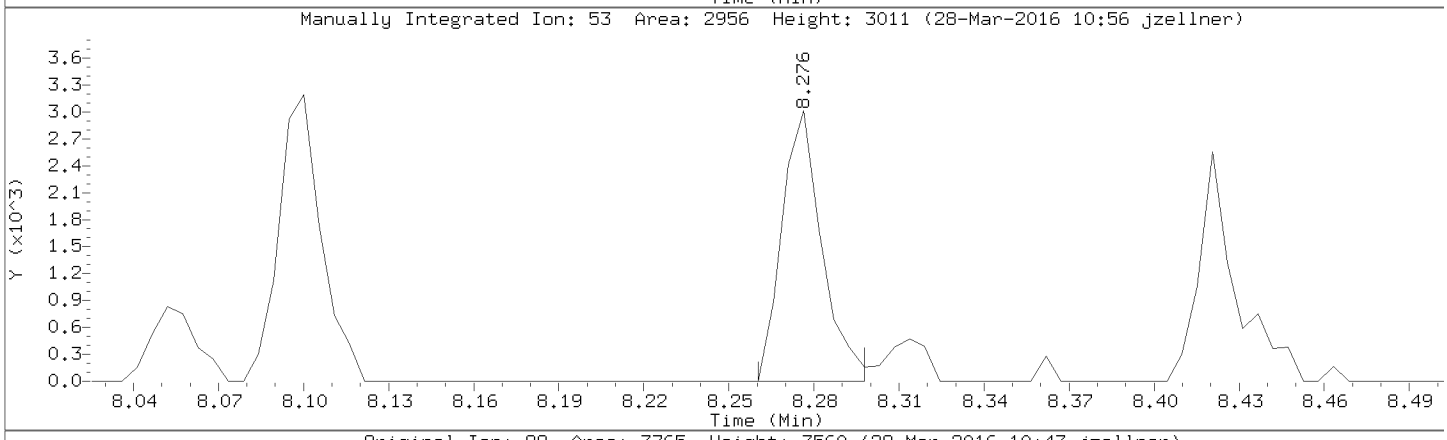
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0

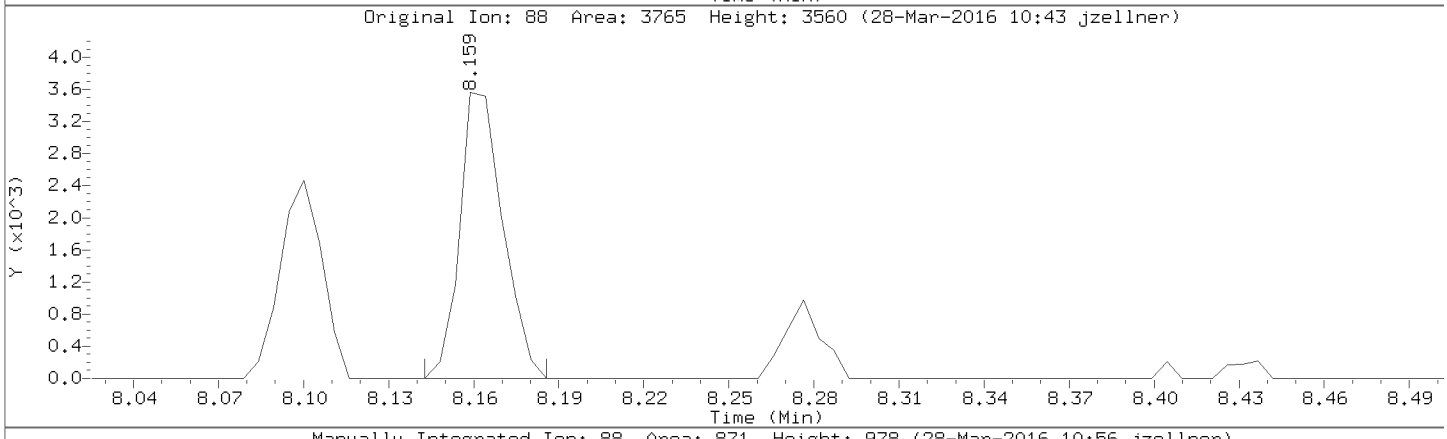


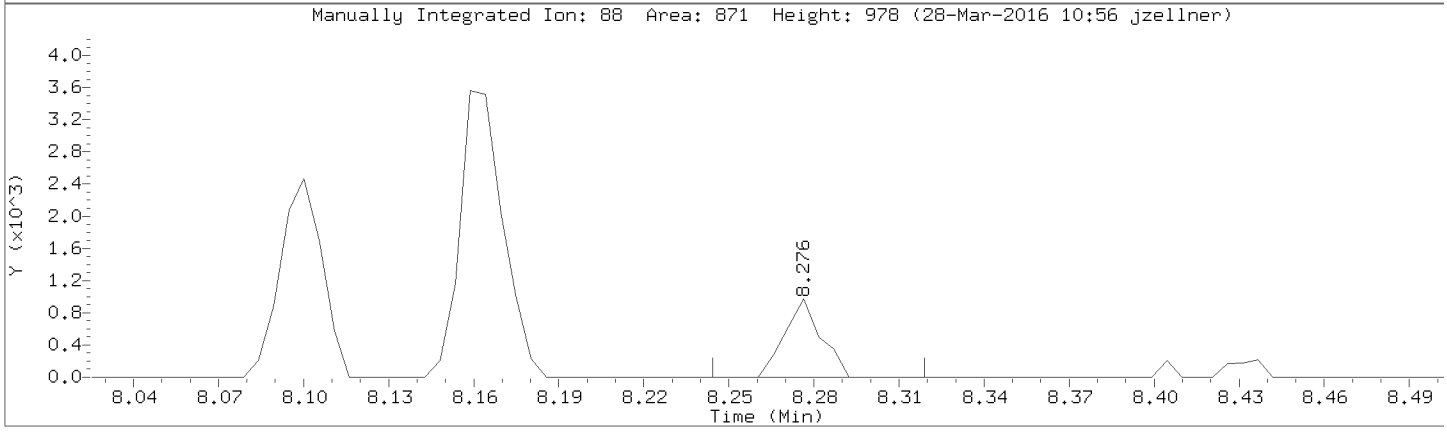
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

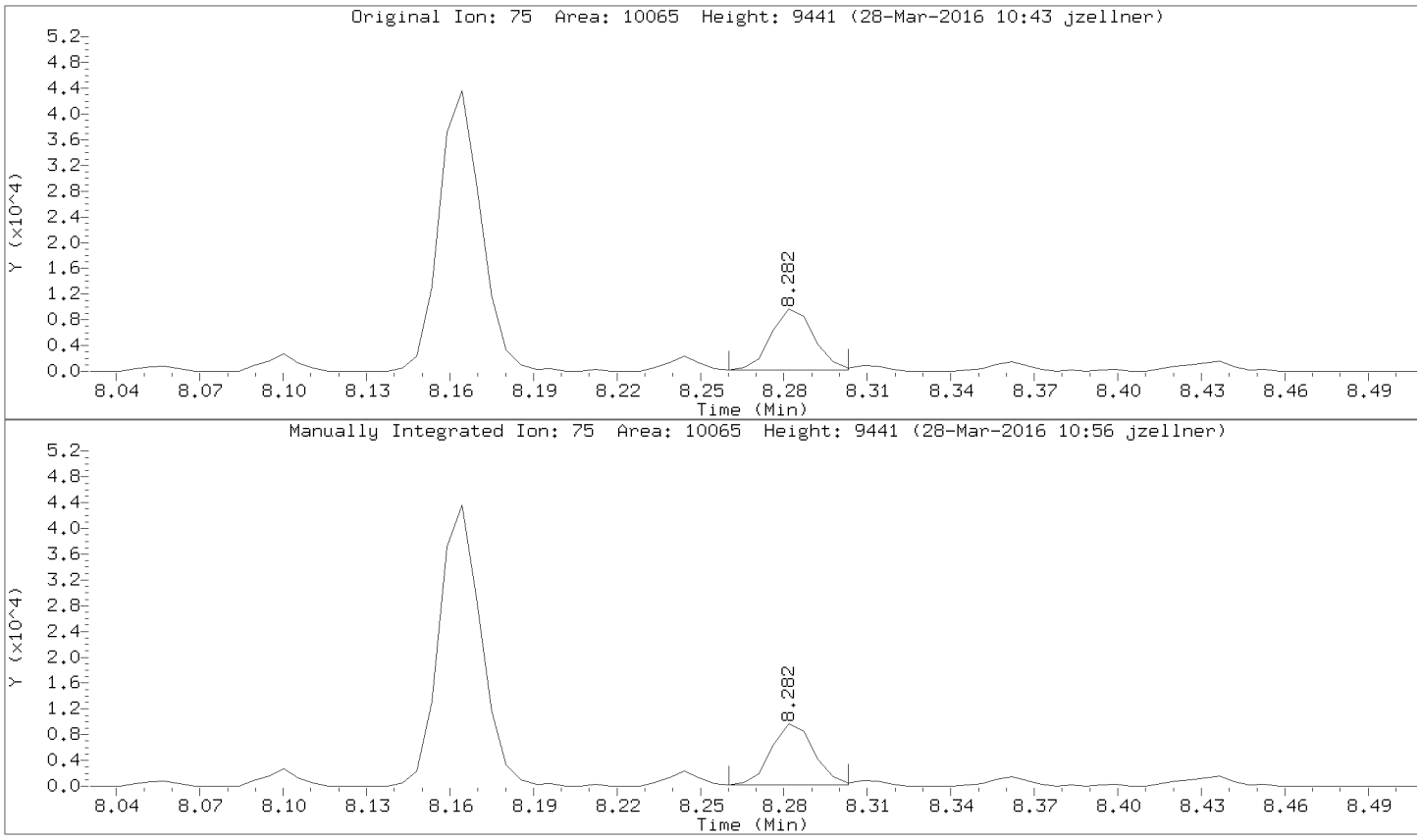








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b07cal4.d
Injection Date: 25-MAR-2016 17:29
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL4,117889:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b08cal5.d
Lab Smp Id: 8260-CAL5,117890:0
Inj Date : 25-MAR-2016 18:01
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal5,117890:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 18:01   Cal File: b08cal5.d
Als bottle: 18   Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.219)	58845	20.0000	21.0	
2	Chloromethane	50	0.996	0.997	(0.239)	85040	20.0000	19.7	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	79610	20.0000	21.4	
4	Bromomethane	94	1.188	1.189	(0.285)	36938	20.0000	20.6	
5	Chloroethane	64	1.236	1.237	(0.296)	47465	20.0000	21.2	
6	Trichlorofluoromethane	101	1.348	1.350	(0.323)	92388	20.0000	21.6	
7	Diethyl ether	74	1.471	1.472	(0.353)	26186	20.0000	20.8	
8	1,2-dichlorotrifluoroethane	67	1.487	1.488	(0.356)	68963	20.0000	21.8	
9	Acrolein	56	1.546	1.542	(0.370)	122034	400.000	408	
10	1,1,2trichlorotrifluoroethane	101	1.599	1.601	(0.383)	59720	20.0000	21.8	
11	1,1-Dichloroethene	96	1.599	1.601	(0.383)	49747	20.0000	21.4	
12	Acetone	43	1.610	1.611	(0.386)	48311	100.000	92.8	
13	Iodomethane	142	1.690	1.686	(0.405)	110222	40.0000	42.6	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	59040	20.0000	21.2	
15	Methyl Acetate	43	1.781	1.782	(0.427)	22391	20.0000	19.1	
16	allyl chloride	41	1.797	1.798	(0.431)	171882	40.0000	44.0	
17	Acetonitrile	39	1.797	1.798	(0.431)	114643	20.0000	21.0	
18	Methylene Chloride	84	1.872	1.873	(0.449)	41066	20.0000	19.9	
19	tert-Butyl Alcohol	59	1.914	1.916	(0.459)	4067	40.0000	39.5(M)	WP
20	Acrylonitrile	53	2.005	2.006	(0.480)	39305	80.0000	79.0	
21	Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	85089	20.0000	20.4	
22	1,2-Dichloroethene (trans)	96	2.048	2.044	(0.491)	42826	20.0000	20.7	
23	n-Hexane	57	2.230	2.231	(0.534)	82716	20.0000	19.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.336	2.338	(0.560)	254234	80.0000	75.9	
	25 1,1-Dichloroethane	63	2.347	2.348	(0.562)	78605	20.0000	20.7	
	26 Chloroprene	53	2.406	2.402	(0.576)	72582	20.0000	21.1	
	27 2-Butanone	43	2.806	2.808	(0.672)	73189	100.000	107	
	28 1,2-Dichloroethene (cis)	96	2.822	2.824	(0.676)	43054	20.0000	21.0	
	29 2,2-Dichloropropane	77	2.828	2.829	(0.678)	46130	20.0000	19.4	
	30 Propionitrile	54	2.865	2.872	(0.687)	3811	20.0000	22.4(Q)	
	31 Methacrylonitrile	41	3.015	3.011	(0.722)	16958	20.0000	18.6	
	32 Bromochloromethane	49	3.057	3.053	(0.733)	30858	20.0000	20.5	
	33 Tetrahydrofuran	42	3.079	3.080	(0.738)	7842	20.0000	18.8	
	34 Chloroform	83	3.164	3.165	(0.758)	67536	20.0000	20.2	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	88246	50.0000	50.6	
	36 1,1,1-Trichloroethane	97	3.341	3.342	(0.800)	61044	20.0000	20.9	
	37 Cyclohexane	56	3.426	3.427	(0.821)	77757	20.0000	20.1	
	151 n-Butyl chloride	56	3.490	3.491	(0.836)	95188	20.0000	20.4	
	38 Carbon Tetrachloride	117	3.522	3.523	(0.844)	50774	20.0000	20.9	
	39 1,1-Dichloropropene	75	3.533	3.534	(0.846)	59488	20.0000	20.8	
	40 Benzene	78	3.773	3.774	(0.904)	171358	20.0000	21.7	
	41 1,2-Dichloroethane	62	3.864	3.860	(0.926)	44200	20.0000	20.2	
	42 Isobutyl alcohol	43	3.955	3.951	(0.948)	36828	20.0000	20.2	
	43 2,2,4-Trimethylpentane	57	3.949	3.951	(0.946)	184632	20.0000	21.3	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	380544	50.0000		
	45 Trichloroethene	95	4.622	4.624	(1.107)	40421	20.0000	21.2	
	46 Methylcyclohexane	55	4.889	4.891	(1.171)	61242	20.0000	21.4	
	47 1,2-Dichloropropane	63	4.927	4.928	(1.180)	38568	20.0000	21.1	
	48 Methyl methacrylate	69	5.050	5.046	(1.210)	15312	20.0000	19.3	
	49 Dibromomethane	93	5.023	5.024	(1.203)	17359	20.0000	20.4	
	50 1,4-Dioxane	88	5.028	5.035	(1.205)	4595	400.000	416	
	51 Bromodichloromethane	83	5.253	5.254	(1.258)	41157	20.0000	19.9	
	52 2-Chloroethyl vinyl ether	63	5.600	5.601	(0.762)	29112	60.0000	42.7	
	53 cis-1,3-Dichloropropene	75	5.749	5.745	(0.783)	47475	20.0000	21.0	
	54 4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	114955	100.000	101	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	330499	50.0000	50.7	
	56 Toluene	91	6.097	6.092	(0.830)	165245	20.0000	19.5	
	57 trans-1,3-Dichloropropene	75	6.380	6.381	(0.868)	31846	20.0000	19.6	
	58 Ethyl Methacrylate	69	6.470	6.466	(0.881)	27163	20.0000	19.7	
	59 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	20558	20.0000	21.4	
	60 Tetrachloroethene	166	6.615	6.621	(0.900)	35817	20.0000	20.6	
	61 1,3-Dichloropropane	76	6.705	6.707	(0.913)	42007	20.0000	20.1	
	62 2-Hexanone	43	6.780	6.776	(0.923)	69334	100.000	94.1	
	63 Dibromochloromethane	129	6.892	6.888	(0.938)	21473	20.0000	19.8	
	64 1,2-Dibromoethane	107	6.972	6.974	(0.949)	20908	20.0000	20.5	
*	65 Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	201644	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	85279	20.0000	20.5	
	67 1,1,1,2-Tetrachloroethane	131	7.442	7.444	(1.013)	23688	20.0000	19.2	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	49393	20.0000	20.4	
	69 m&p-Xylene	106	7.549	7.550	(1.028)	123813	40.0000	42.2	
	70 o-Xylene	106	7.811	7.807	(1.063)	54996	20.0000	20.7	
	71 Styrene	104	7.827	7.823	(1.065)	93915	20.0000	21.1	
	72 Bromoform	173	7.945	7.946	(0.899)	9676	20.0000	18.8(M)	NI
	73 Isopropylbenzene	105	8.051	8.053	(1.096)	151845	20.0000	21.4	
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	91862	50.0000	51.8	
	75 Bromobenzene	77	8.244	8.245	(1.122)	51868	20.0000	19.6	
	76 1,1,2,2-Tetrachloroethane	83	8.254	8.256	(0.934)	24105	20.0000	19.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
77 trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	6073	20.0000	19.7	
78 1,2,3-Trichloropropane	110	8.286	8.282	(0.937)	6691	20.0000	19.6	
79 n-Propylbenzene	91	8.313	8.314	(0.940)	190175	20.0000	21.7	
80 2-Chlorotoluene	91	8.361	8.362	(0.946)	100702	20.0000	21.0	
81 1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	114792	20.0000	20.7	
82 4-Chlorotoluene	126	8.436	8.437	(0.954)	32080	20.0000	19.7	
83 tert-Butylbenzene	119	8.601	8.603	(0.973)	124445	20.0000	20.3	
84 1,2,4-Trimethylbenzene	105	8.634	8.635	(0.976)	114930	20.0000	20.3	
85 sec-Butylbenzene	105	8.730	8.731	(0.987)	153662	20.0000	21.0	
86 1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	54361	20.0000	19.3	
87 p-Isopropyltoluene	119	8.815	8.811	(0.997)	126097	20.0000	20.7	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	83837	50.0000		
89 1,4-Dichlorobenzene	146	8.853	8.854	(1.001)	54762	20.0000	19.7	
90 n-Butylbenzene	91	9.029	9.030	(1.021)	124200	20.0000	20.4	
91 1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	47611	20.0000	18.7	
92 1,2-Dibromo-3-chloropropane	155	9.456	9.452	(1.069)	2057	20.0000	19.1(Q)	
93 1,2,4-Trichlorobenzene	180	9.862	9.858	(1.115)	29341	20.0000	20.0	
94 Hexachlorobutadiene	225	9.926	9.927	(1.123)	18488	20.0000	21.3	
95 Naphthalene	128	10.001	10.002	(1.131)	63564	20.0000	19.8	
96 1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	27893	20.0000	20.5	
97 2,methyl-naphthalene	142	10.631	10.632	(1.202)	37016	20.0000	19.4	
98 1-Methylnaphthalene	142	10.743	10.744	(1.215)	31352	20.0000	18.7	

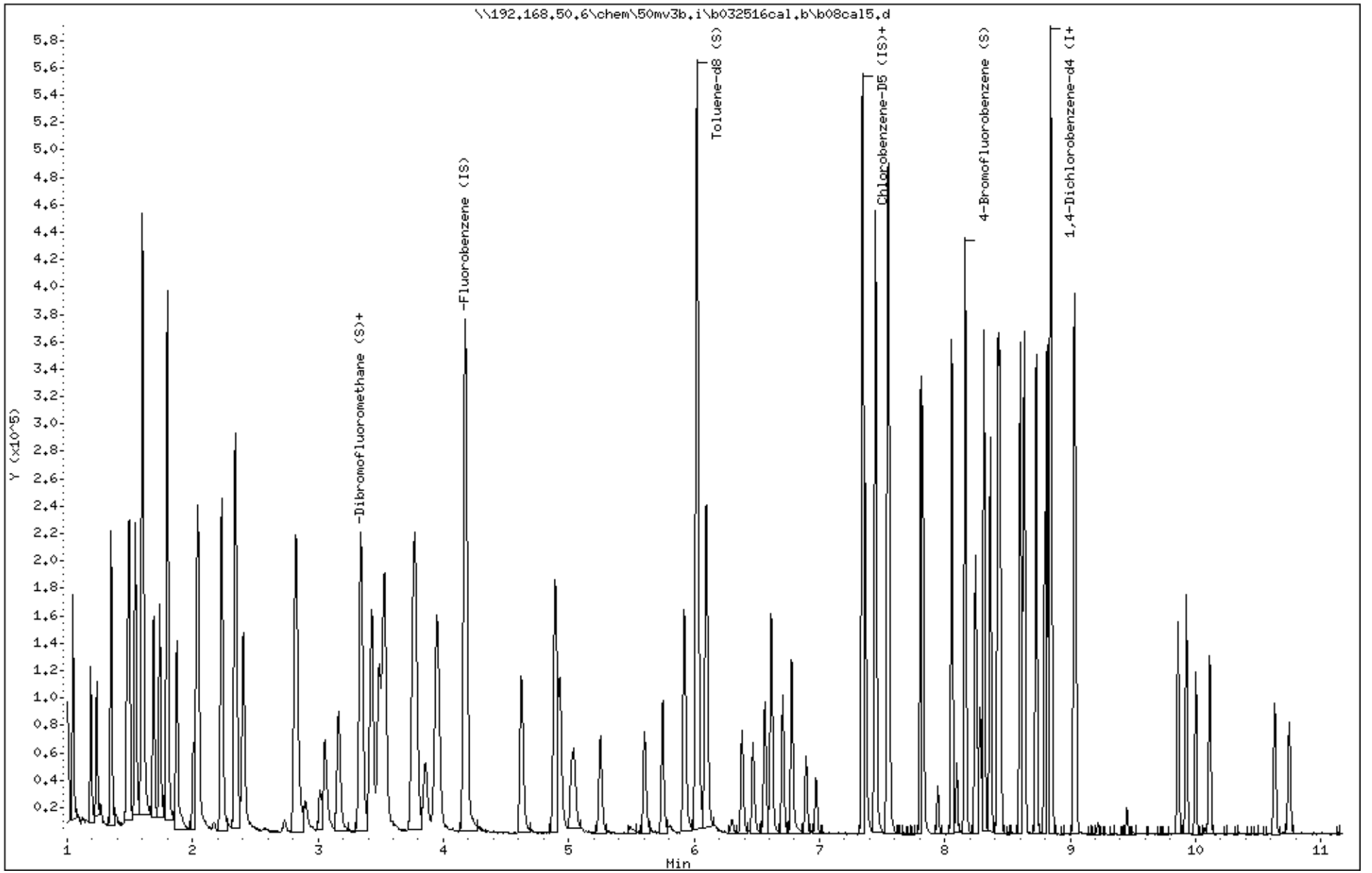
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

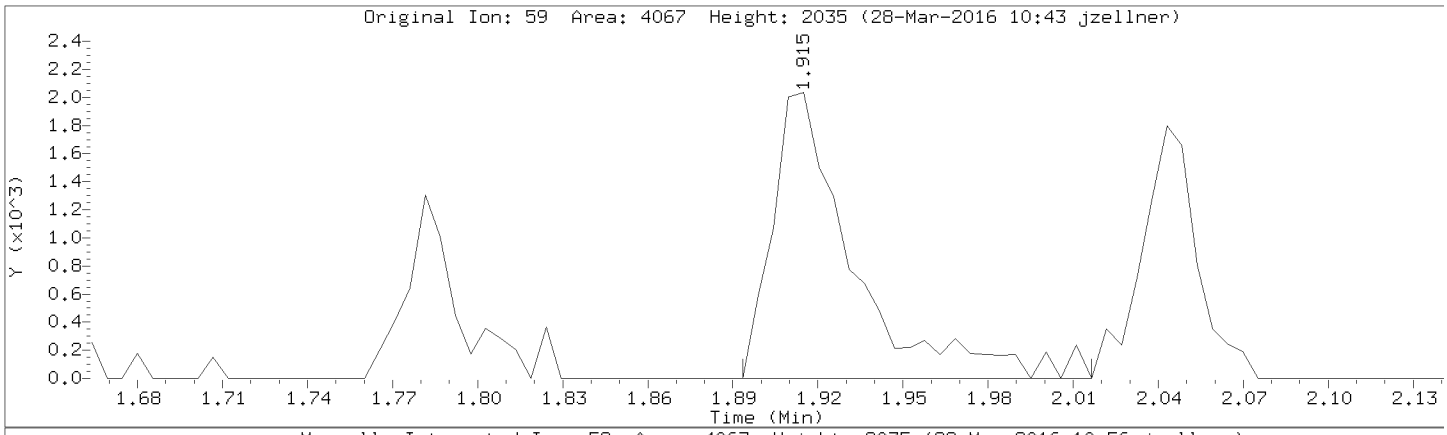
:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

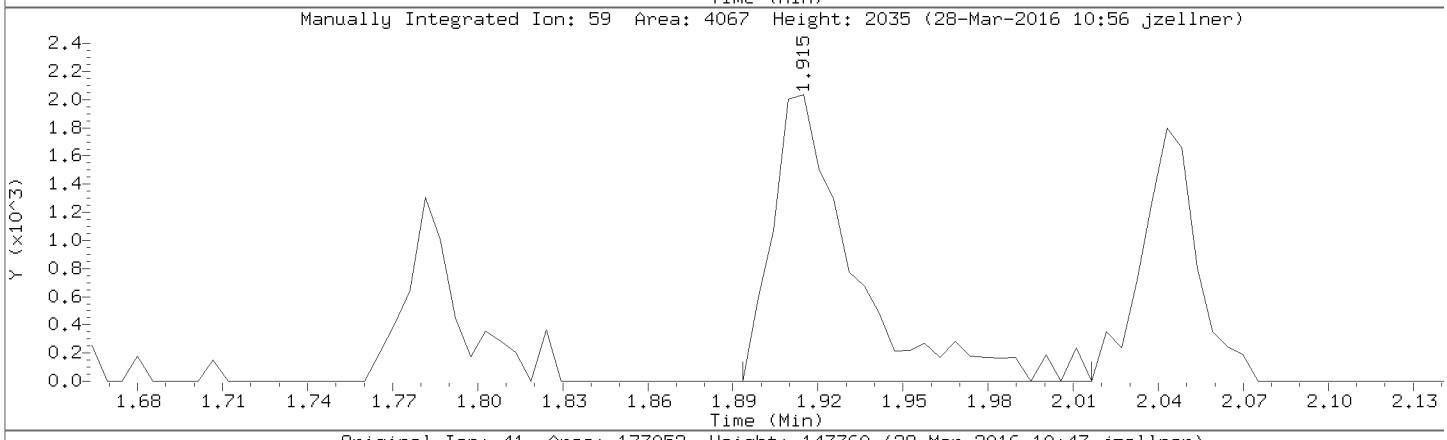
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b08cal5.d
Date : 25-MAR-2016 18:01
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL5,117890:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

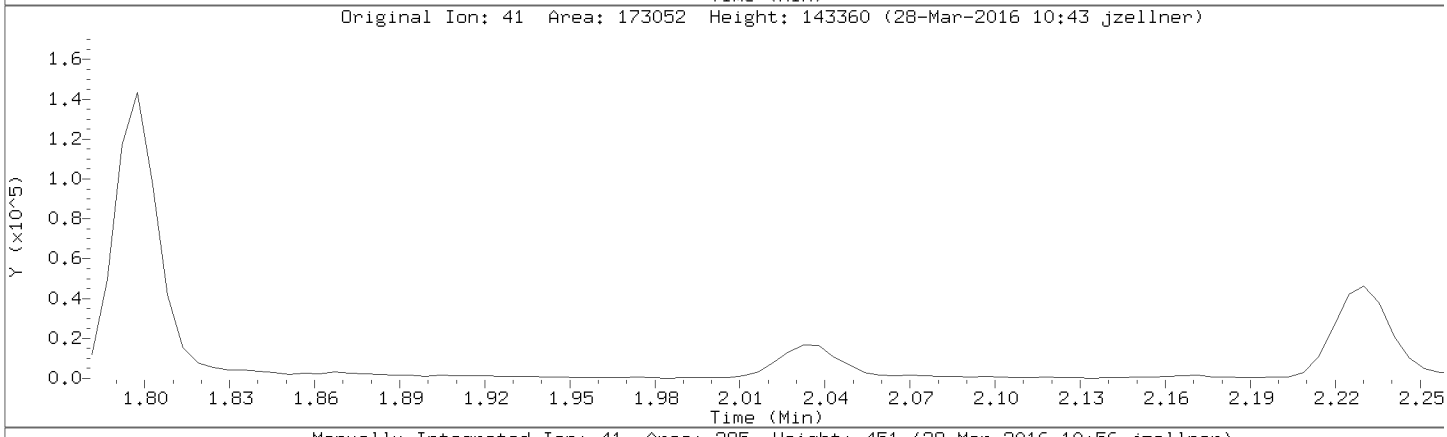


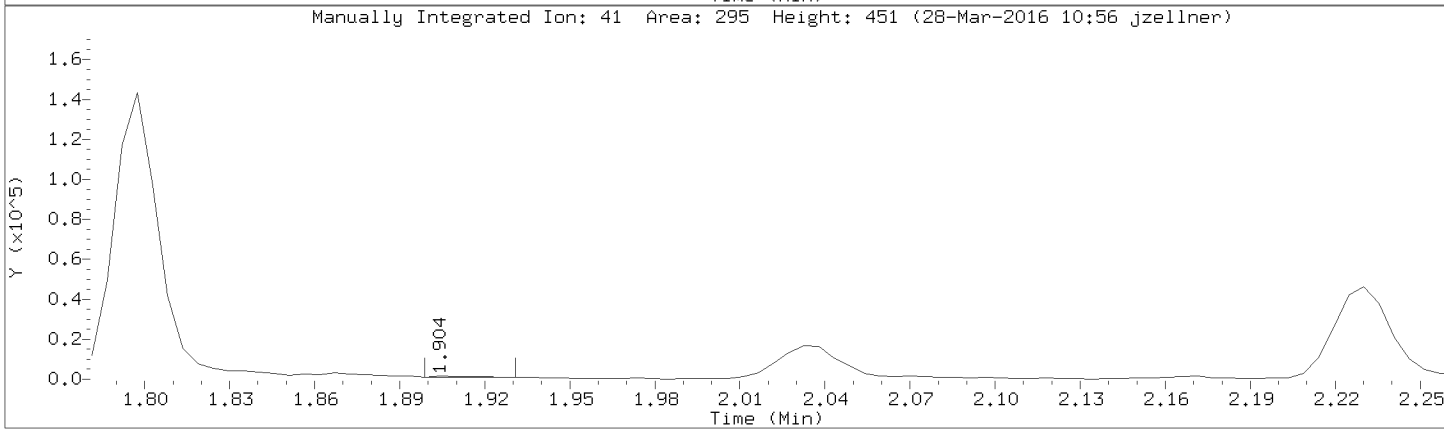
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b08cal5.d
Injection Date: 25-MAR-2016 18:01
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL5,117890:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



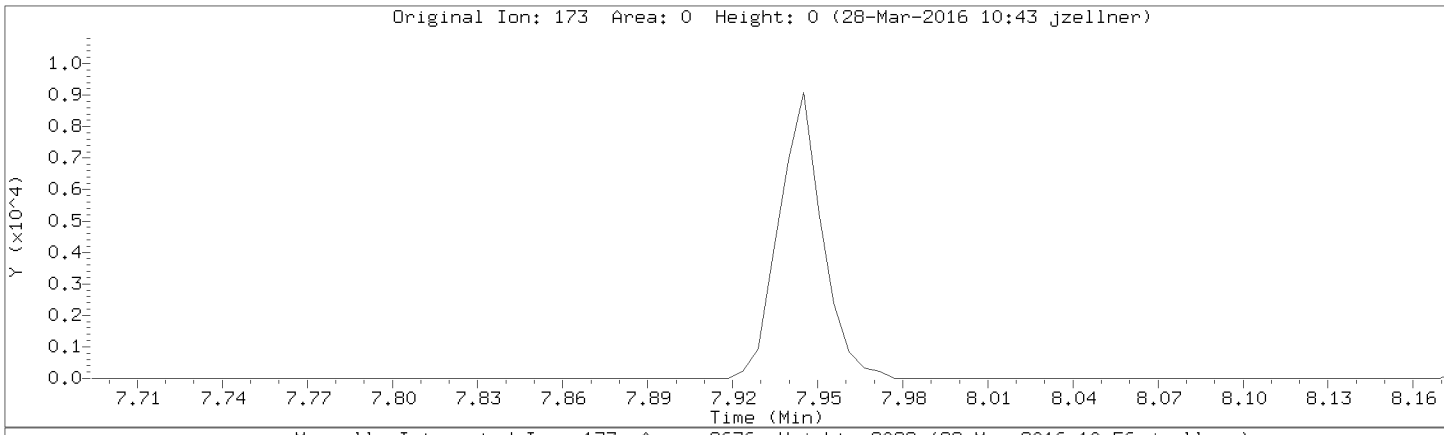


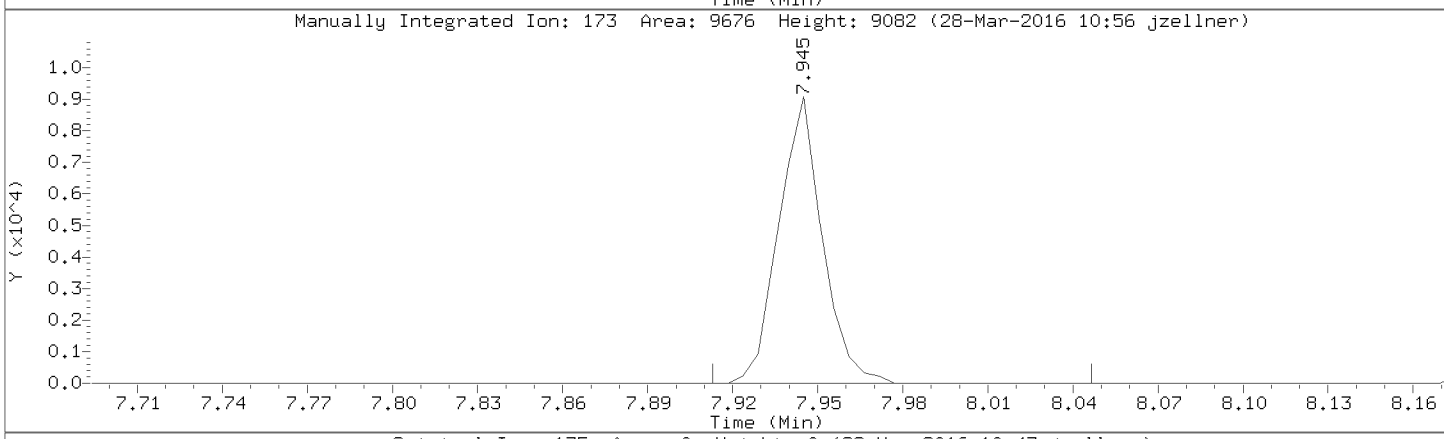


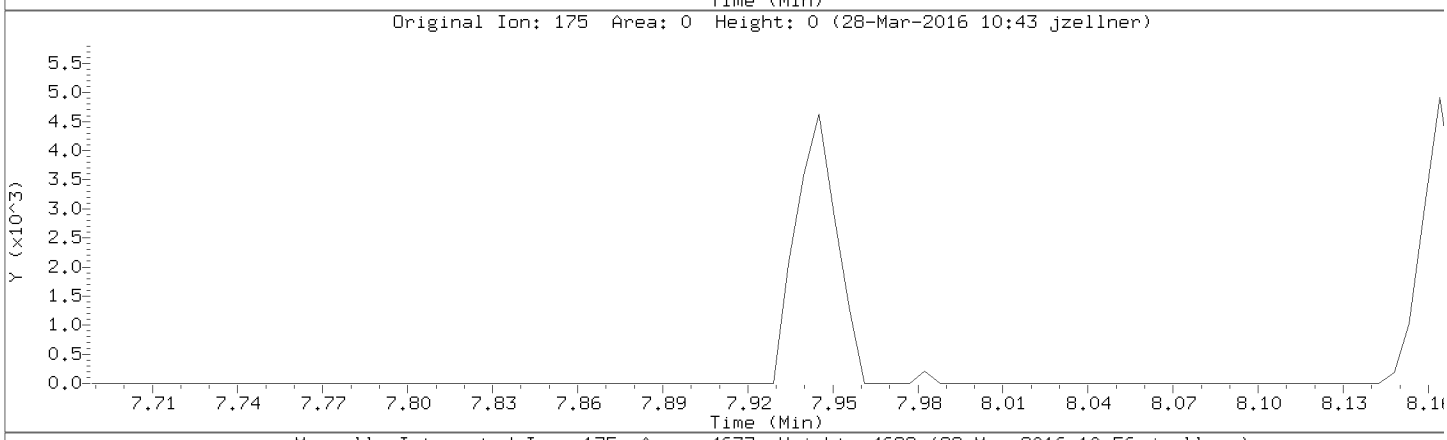


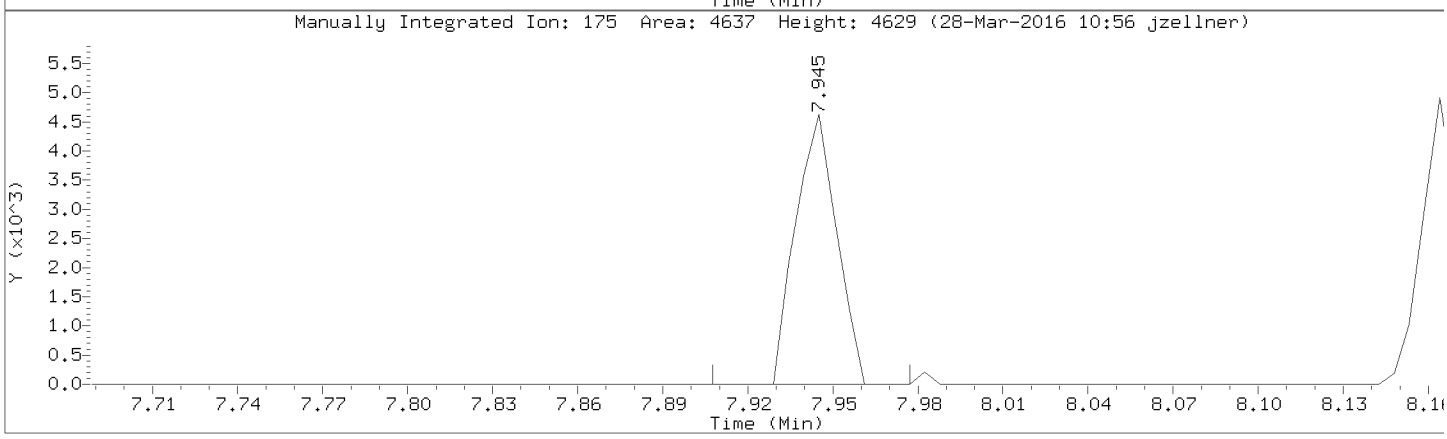
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b08cal5.d
Injection Date: 25-MAR-2016 18:01
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL5,117890:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

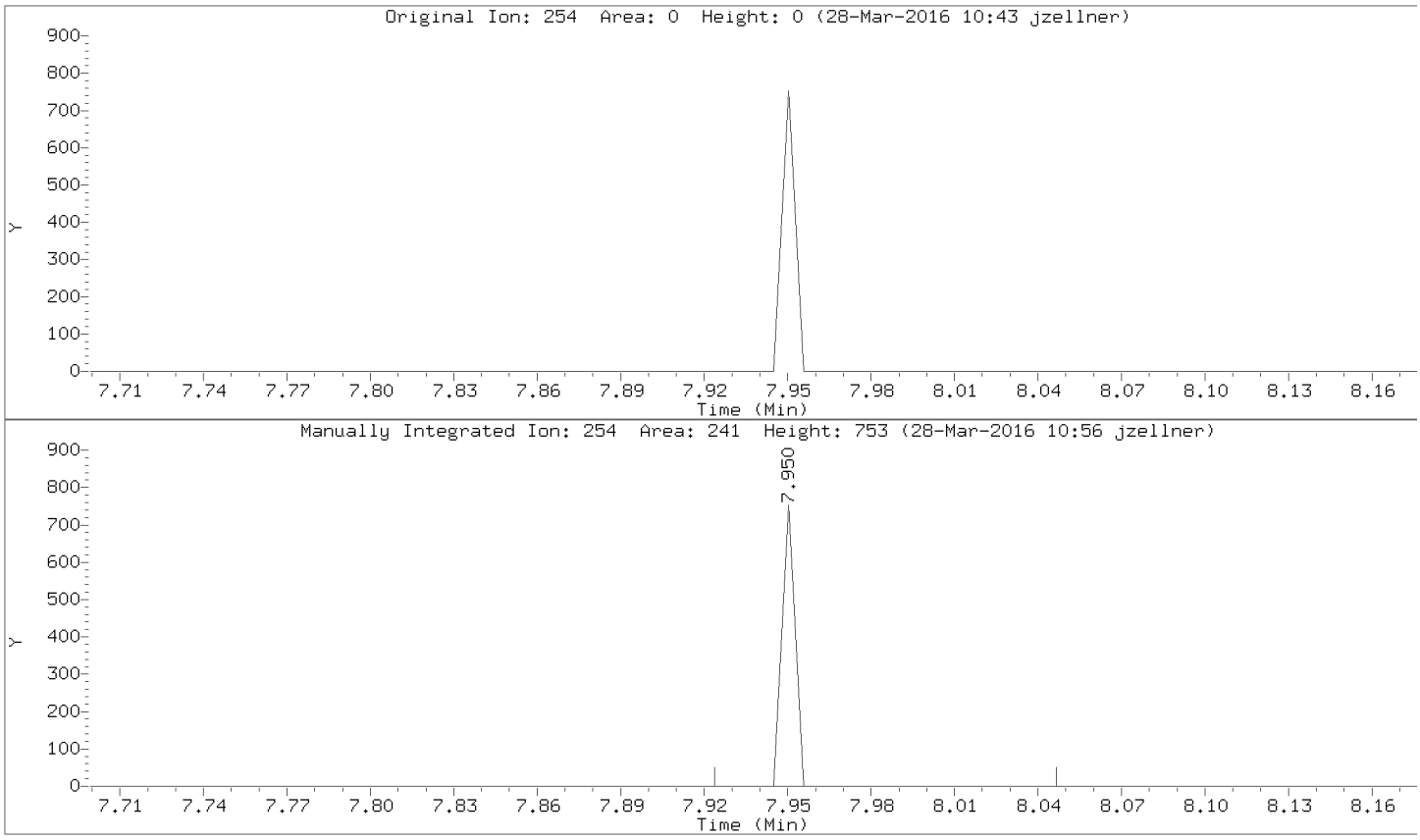








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b08cal5.d
Injection Date: 25-MAR-2016 18:01
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL5,117890:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b09cal6.d
Lab Smp Id: 8260-CAL6,117891:0
Inj Date : 25-MAR-2016 18:33
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal6,117891:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 18:33   Cal File: b09cal6.d
Als bottle: 20   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.220)	149068	50.0000	48.1	
2	Chloromethane	50	0.996	0.997	(0.239)	206149	50.0000	43.2	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	199291	50.0000	48.6	
4	Bromomethane	94	1.188	1.189	(0.285)	95205	50.0000	48.0	
5	Chloroethane	64	1.236	1.237	(0.296)	111924	50.0000	45.3	
6	Trichlorofluoromethane	101	1.349	1.350	(0.323)	231398	50.0000	49.1	
7	Diethyl ether	74	1.471	1.472	(0.353)	72430	50.0000	52.1	
8	1,2-dichlorotrifluoroethane	67	1.487	1.488	(0.356)	179733	50.0000	51.5	
9	Acrolein	56	1.541	1.542	(0.369)	324483	1000.00	982	
10	1,1,2trichlorotrifluoroethane	101	1.600	1.601	(0.383)	156756	50.0000	51.8	
11	1,1-Dichloroethene	96	1.600	1.601	(0.383)	132242	50.0000	51.6	
12	Acetone	43	1.610	1.611	(0.386)	132589	250.000	230	
13	Iodomethane	142	1.690	1.686	(0.405)	322465	100.000	113	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	164752	50.0000	53.4	
15	Methyl Acetate	43	1.781	1.782	(0.427)	61930	50.0000	47.8	
16	allyl chloride	41	1.797	1.798	(0.431)	470068	100.000	109	
17	Acetonitrile	39	1.797	1.798	(0.431)	315907	50.0000	52.5	
18	Methylene Chloride	84	1.872	1.873	(0.449)	104728	50.0000	46.0	
19	tert-Butyl Alcohol	59	1.915	1.916	(0.459)	9881	100.000	86.8(M)	WP
20	Acrylonitrile	53	2.005	2.006	(0.481)	109202	200.000	199	
21	Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	239613	50.0000	51.9	
22	1,2-Dichloroethene (trans)	96	2.043	2.044	(0.489)	116201	50.0000	50.8	
23	n-Hexane	57	2.230	2.231	(0.534)	226385	50.0000	47.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.337	2.338	(0.560)	744372	200.000	201	
	25 1,1-Dichloroethane	63	2.347	2.348	(0.562)	212349	50.0000	50.7	
	26 Chloroprene	53	2.406	2.402	(0.576)	196613	50.0000	51.8	
	27 2-Butanone	43	2.807	2.808	(0.672)	189495	250.000	252	
	28 1,2-Dichloroethene (cis)	96	2.823	2.824	(0.676)	121671	50.0000	53.6	
	29 2,2-Dichloropropane	77	2.828	2.829	(0.678)	136866	50.0000	52.1	
	30 Propionitrile	54	2.871	2.872	(0.688)	9428	50.0000	50.2	
	31 Methacrylonitrile	41	3.015	3.011	(0.722)	45042	50.0000	44.8	
	32 Bromochloromethane	49	3.052	3.053	(0.731)	84390	50.0000	50.8	
	33 Tetrahydrofuran	42	3.074	3.080	(0.736)	21377	50.0000	44.9	
	34 Chloroform	83	3.164	3.165	(0.758)	184027	50.0000	49.9	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	91732	50.0000	47.6	
	36 1,1,1-Trichloroethane	97	3.341	3.342	(0.800)	164878	50.0000	51.2	
	37 Cyclohexane	56	3.426	3.427	(0.821)	212939	50.0000	49.9	
	151 n-Butyl chloride	56	3.490	3.491	(0.836)	265095	50.0000	51.4	
	38 Carbon Tetrachloride	117	3.528	3.523	(0.845)	139310	50.0000	51.9	
	39 1,1-Dichloropropene	75	3.533	3.534	(0.846)	164385	50.0000	52.1	
	40 Benzene	78	3.773	3.774	(0.904)	451017	50.0000	51.7	
	41 1,2-Dichloroethane	62	3.859	3.860	(0.924)	114931	50.0000	47.5	
	42 Isobutyl alcohol	43	3.944	3.951	(0.945)	105985	50.0000	52.7	
	43 2,2,4-Trimethylpentane	57	3.950	3.951	(0.946)	523285	50.0000	54.7	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	420370	50.0000		
	45 Trichloroethene	95	4.623	4.624	(1.107)	106548	50.0000	50.7	
	46 Methylcyclohexane	55	4.895	4.891	(1.173)	166766	50.0000	52.8	
	47 1,2-Dichloropropane	63	4.927	4.928	(1.180)	103875	50.0000	51.4	
	48 Methyl methacrylate	69	5.045	5.046	(1.209)	48737	50.0000	55.5	
	49 Dibromomethane	93	5.023	5.024	(1.203)	47884	50.0000	51.1	
	50 1,4-Dioxane	88	5.029	5.035	(1.205)	10866	1000.00	891	
	51 Bromodichloromethane	83	5.248	5.254	(1.257)	119694	50.0000	52.3	
	52 2-Chloroethyl vinyl ether	63	5.600	5.601	(0.762)	89258	100.000	106	
	53 cis-1,3-Dichloropropene	75	5.744	5.745	(0.782)	139562	50.0000	55.2	
	54 4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	339980	250.000	265	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	363767	50.0000	49.8	
	56 Toluene	91	6.097	6.092	(0.830)	446135	50.0000	46.9	
	57 trans-1,3-Dichloropropene	75	6.380	6.381	(0.868)	101619	50.0000	55.9	
	58 Ethyl Methacrylate	69	6.465	6.466	(0.880)	86828	50.0000	56.2	
	59 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	54561	50.0000	50.6	
	60 Tetrachloroethene	166	6.620	6.621	(0.901)	101707	50.0000	52.2	
	61 1,3-Dichloropropane	76	6.706	6.707	(0.913)	117440	50.0000	50.1	
	62 2-Hexanone	43	6.775	6.776	(0.922)	218283	250.000	264	
	63 Dibromochloromethane	129	6.893	6.888	(0.938)	66477	50.0000	54.7	
	64 1,2-Dibromoethane	107	6.973	6.974	(0.949)	57013	50.0000	49.9	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	226158	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	229683	50.0000	49.3	
	67 1,1,1,2-Tetrachloroethane	131	7.443	7.444	(1.013)	71747	50.0000	52.0	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	137243	50.0000	50.6	
	69 m&p-Xylene	106	7.550	7.550	(1.028)	338587	100.000	103	
	70 o-Xylene	106	7.811	7.807	(1.063)	153970	50.0000	51.7	
	71 Styrene	104	7.827	7.823	(1.065)	257703	50.0000	51.7	
	72 Bromoform	173	7.945	7.946	(0.899)	30846	50.0000	53.3(M)	NI
	73 Isopropylbenzene	105	8.052	8.053	(1.096)	417828	50.0000	52.5	
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	98397	50.0000	49.5	
	75 Bromobenzene	77	8.244	8.245	(1.122)	142403	50.0000	48.0	
	76 1,1,2,2-Tetrachloroethane	83	8.255	8.256	(0.934)	68761	50.0000	48.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
77	trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	17249	50.0000	49.9	
78	1,2,3-Trichloropropane	110	8.281	8.282	(0.937)	18202	50.0000	47.3	
79	n-Propylbenzene	91	8.313	8.314	(0.940)	509835	50.0000	51.7	
80	2-Chlorotoluene	91	8.361	8.362	(0.946)	274879	50.0000	50.8	
81	1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	324421	50.0000	52.0	
82	4-Chlorotoluene	126	8.436	8.437	(0.954)	90809	50.0000	49.6	
83	tert-Butylbenzene	119	8.602	8.603	(0.973)	360787	50.0000	52.3	
84	1,2,4-Trimethylbenzene	105	8.634	8.635	(0.976)	317460	50.0000	49.8	
85	sec-Butylbenzene	105	8.730	8.731	(0.987)	436267	50.0000	52.8	
86	1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	154230	50.0000	48.6	
87	p-Isopropyltoluene	119	8.815	8.811	(0.997)	357197	50.0000	52.1	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	94449	50.0000		
89	1,4-Dichlorobenzene	146	8.853	8.854	(1.001)	152266	50.0000	48.5	
90	n-Butylbenzene	91	9.034	9.030	(1.022)	358976	50.0000	52.4	
91	1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	134348	50.0000	46.8	
92	1,2-Dibromo-3-chloropropane	155	9.456	9.452	(1.069)	6842	50.0000	56.3	
93	1,2,4-Trichlorobenzene	180	9.862	9.858	(1.115)	80318	50.0000	48.6	
94	Hexachlorobutadiene	225	9.926	9.927	(1.123)	50602	50.0000	51.8	
95	Naphthalene	128	10.001	10.002	(1.131)	178913	50.0000	49.4	
96	1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	75057	50.0000	49.1	
97	2,methyl-naphthalene	142	10.631	10.632	(1.202)	108420	50.0000	50.4	
98	1-Methylnaphthalene	142	10.749	10.744	(1.216)	94233	50.0000	49.9	

QC Flag Legend

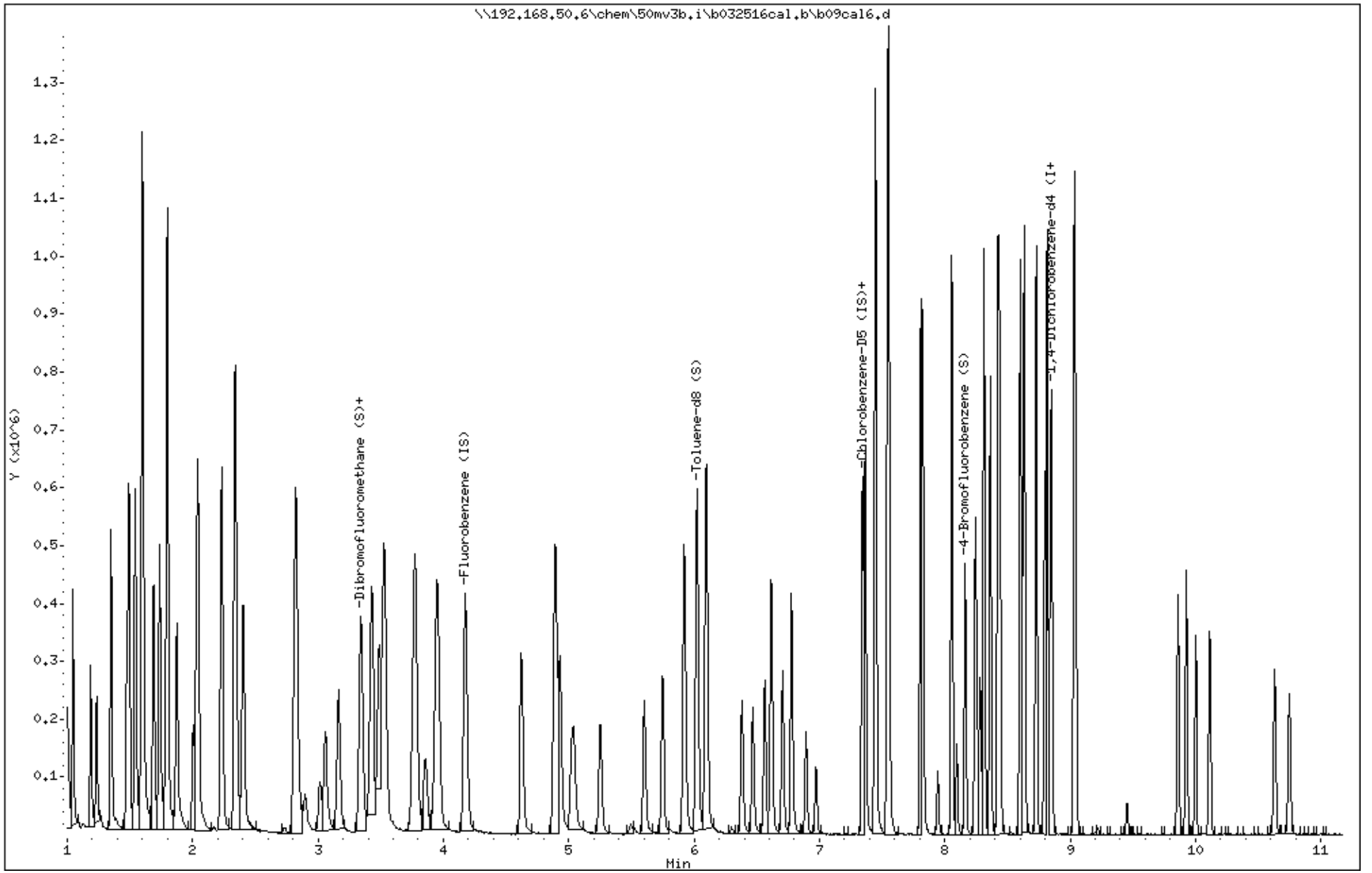
M - Compound response manually integrated.

Review Codes Legend

:
WP: Indicates that the wrong peak was chosen by the data system.
NI: Indicates that the peak was not integrated at all by the computer software.

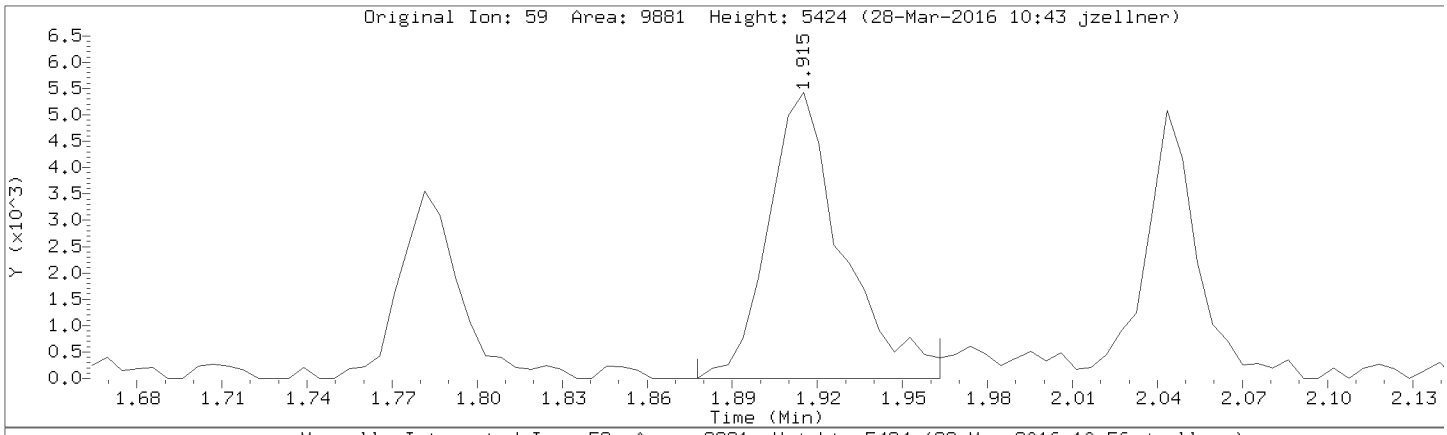
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b09cal6.d
Date : 25-MAR-2016 18:33
Client ID:
Sample Info: 8260-CAL6,117891:0
Purge Volume: 5.0
Column phase: DB-624

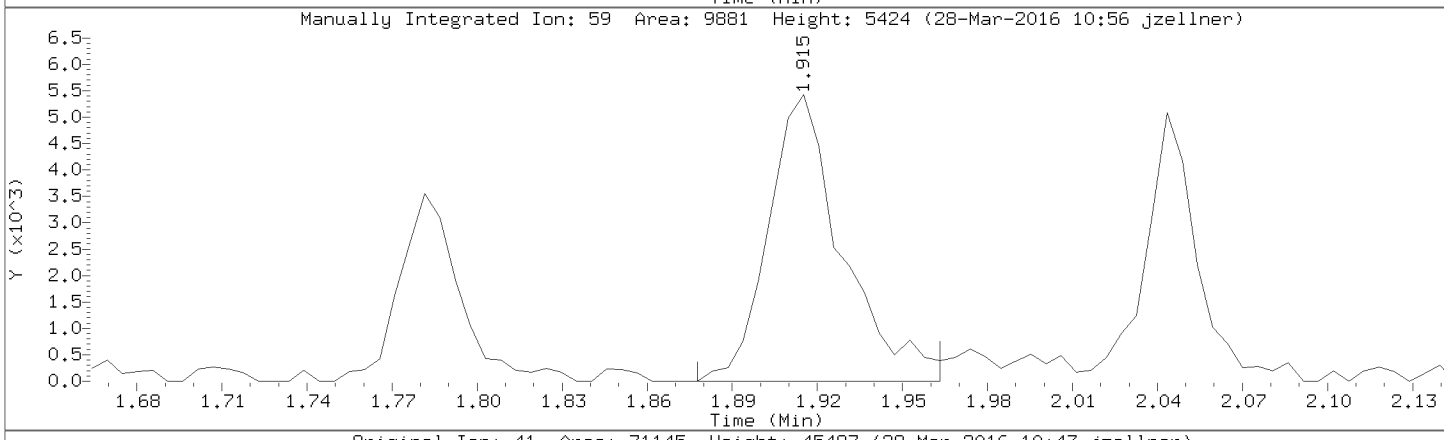
Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18

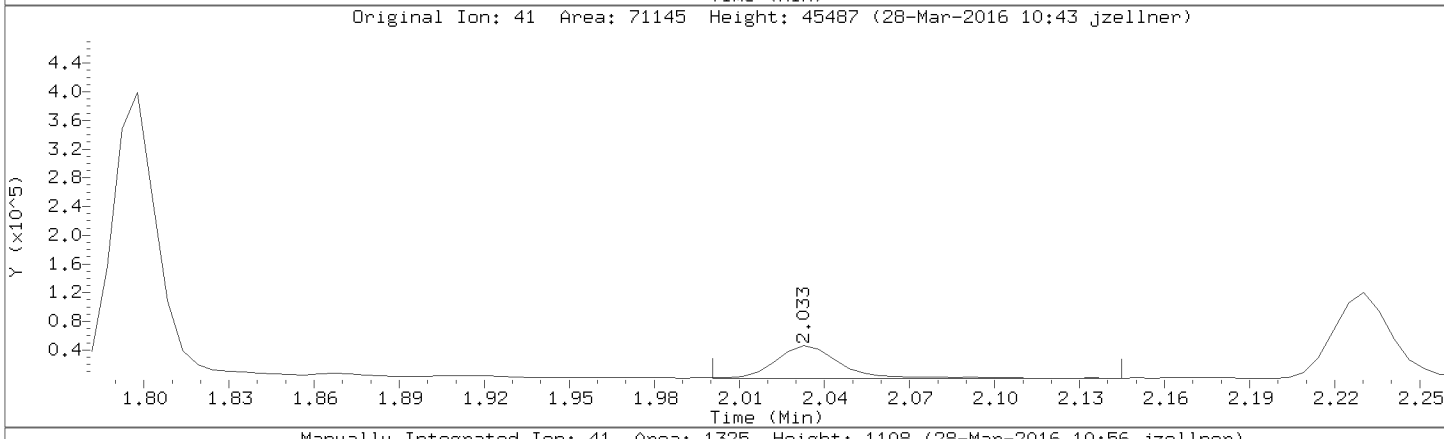


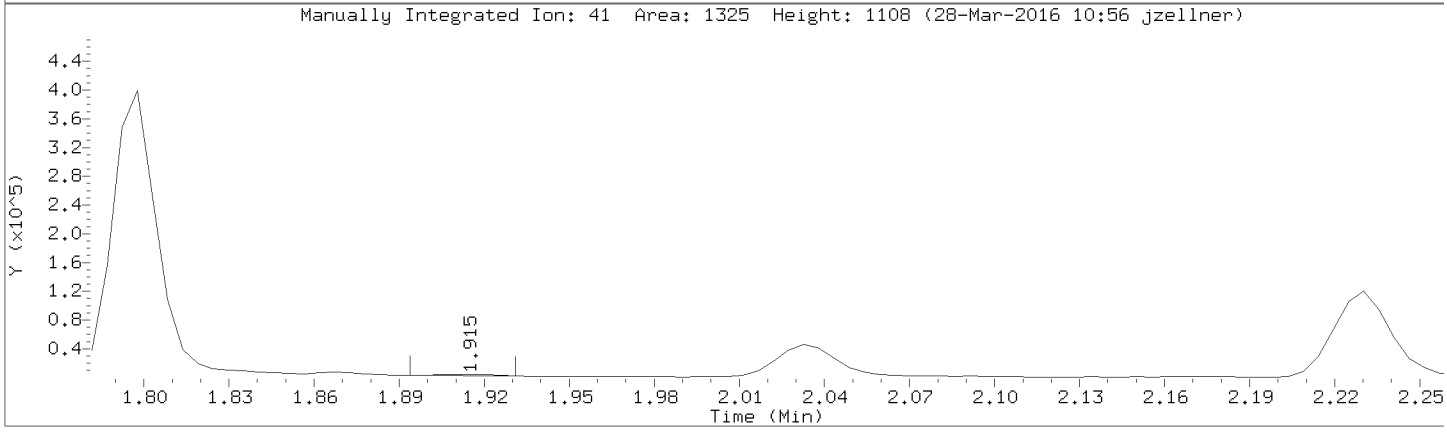
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b09cal6.d
Injection Date: 25-MAR-2016 18:33
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL6,117891:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



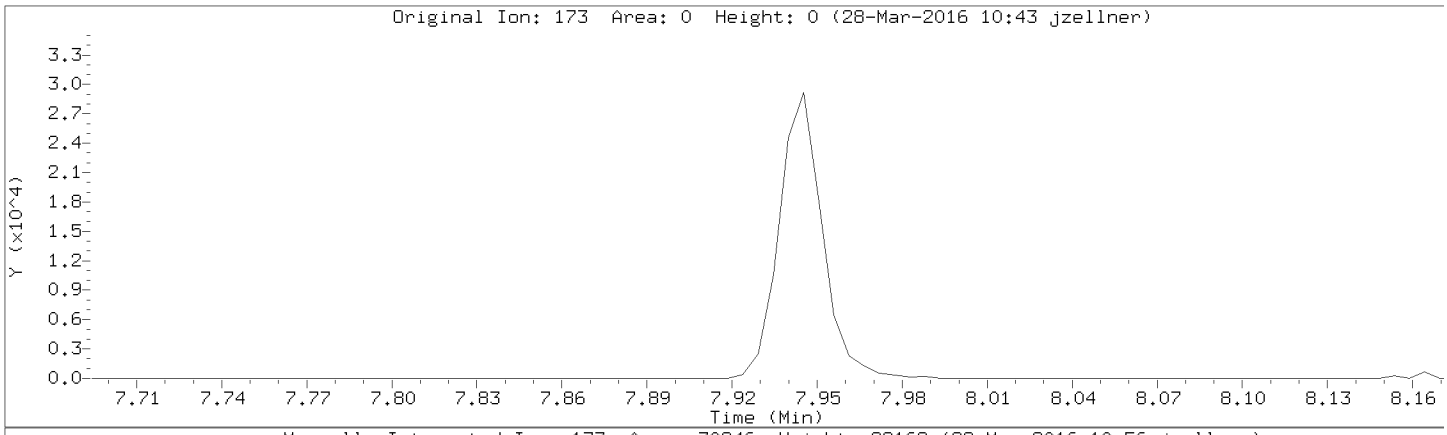


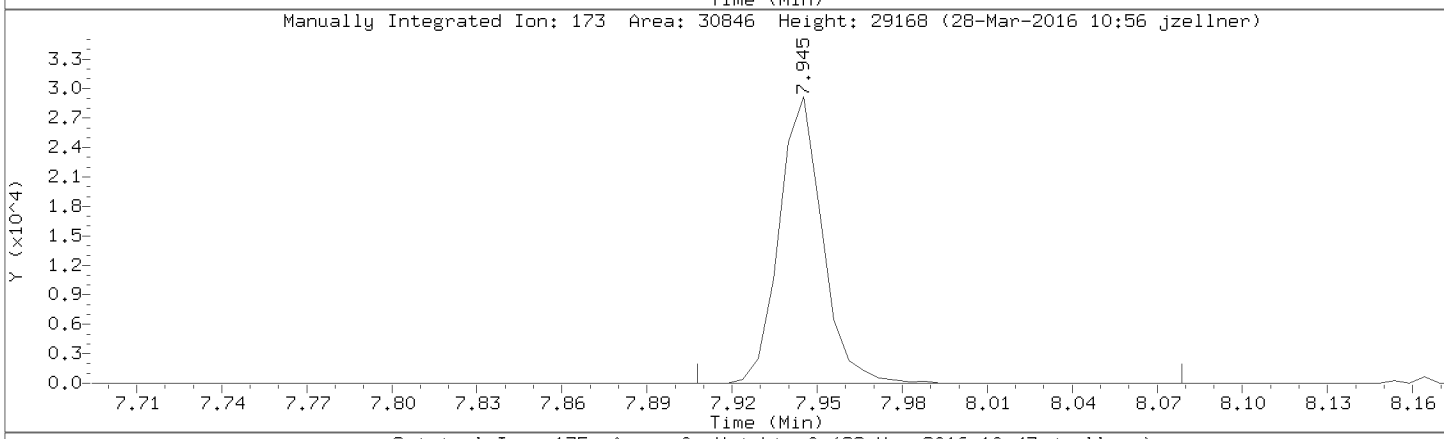


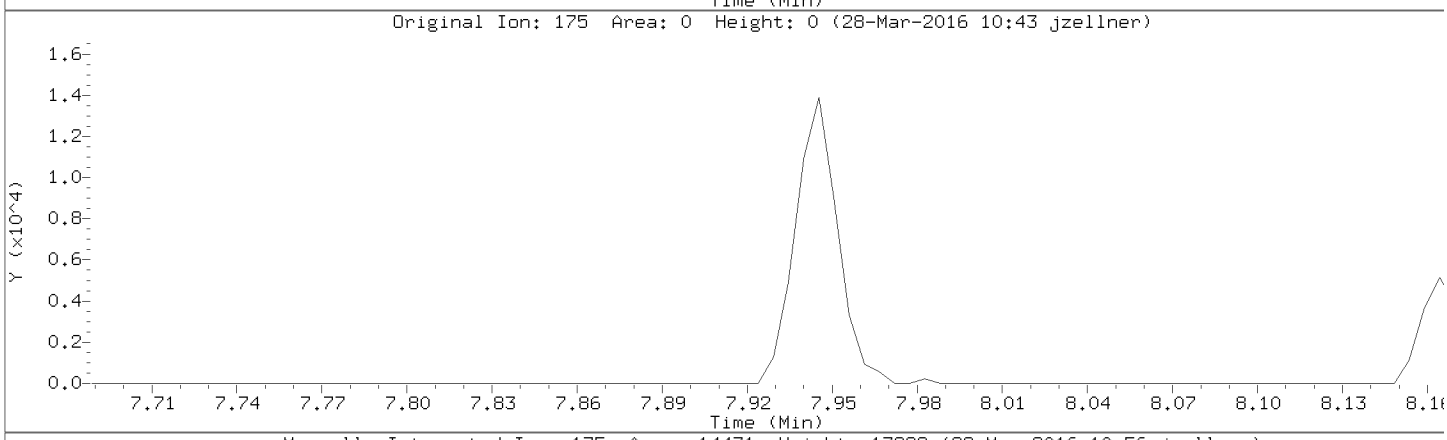


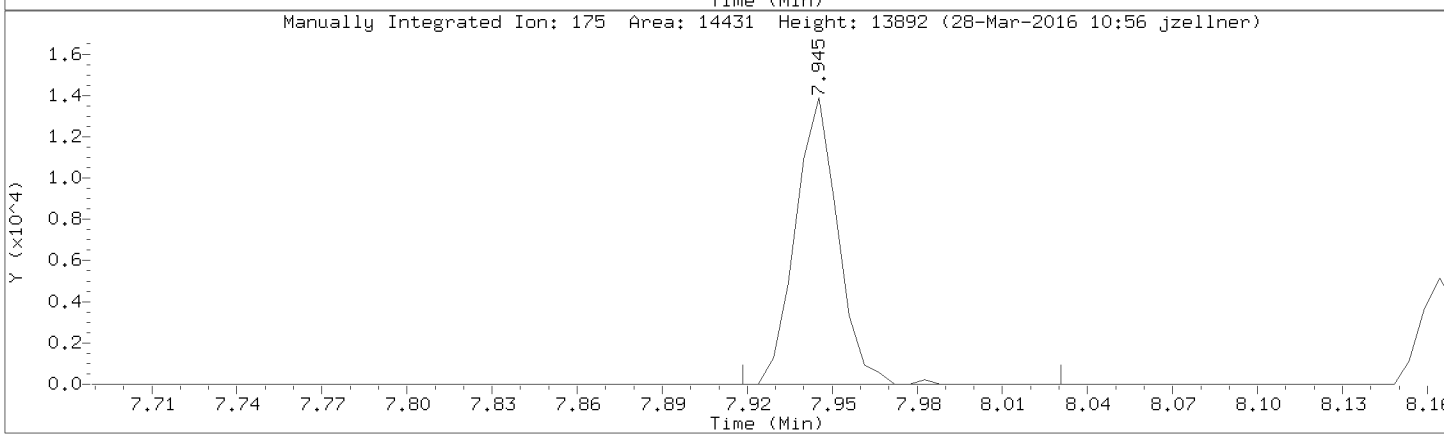
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b09cal6.d
Injection Date: 25-MAR-2016 18:33
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL6,117891:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

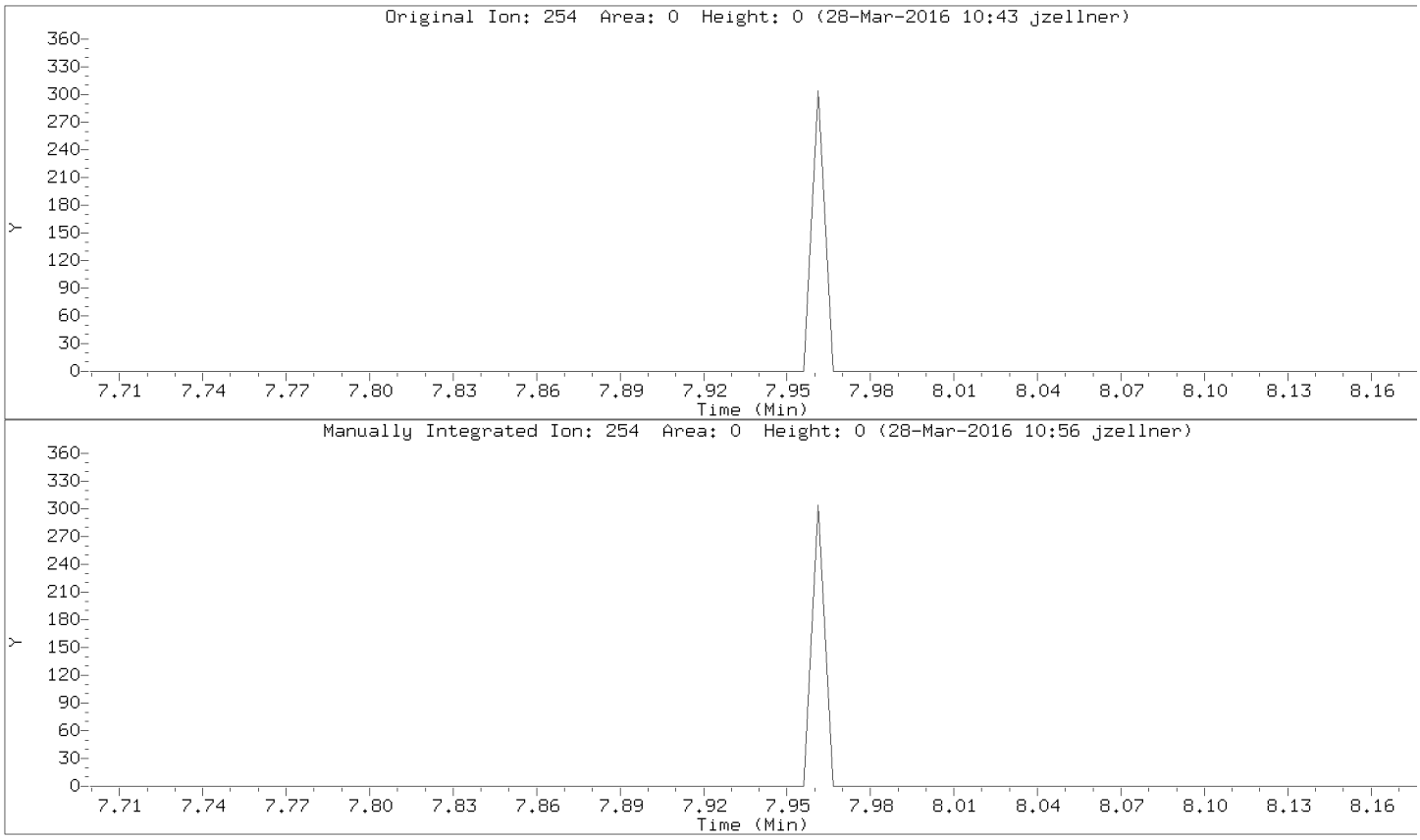








Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b09cal6.d
Injection Date: 25-MAR-2016 18:33
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL6,117891:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b10cal7.d
Lab Smp Id: 8260-CAL7,117892:0
Inj Date : 25-MAR-2016 19:05
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal7,117892:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 19:05   Cal File: b10cal7.d
Als bottle: 22   Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.220)	490453	150.000	145	
2	Chloromethane	50	0.996	0.997	(0.239)	684363	150.000	132	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	644359	150.000	144	
4	Bromomethane	94	1.183	1.189	(0.284)	288778	150.000	134	
5	Chloroethane	64	1.231	1.237	(0.295)	322322	150.000	120	
6	Trichlorofluoromethane	101	1.349	1.350	(0.323)	777401	150.000	151	
7	Diethyl ether	74	1.472	1.472	(0.353)	237526	150.000	157	
8	1,2-dichlorotrifluoroethane	67	1.488	1.488	(0.356)	557798	150.000	147	
9	Acrolein	56	1.546	1.542	(0.371)	1082429	3000.00	3010	
10	1,1,2trichlorotrifluoroethane	101	1.595	1.601	(0.382)	498378	150.000	151	
11	1,1-Dichloroethene	96	1.600	1.601	(0.383)	421787	150.000	151	
12	Acetone	43	1.611	1.611	(0.386)	432163	750.000	690	
13	Iodomethane	142	1.685	1.686	(0.404)	1053049	300.000	338	
14	Carbon Disulfide	76	1.798	1.798	(0.431)	530656	150.000	158	
15	Methyl Acetate	43	1.781	1.782	(0.427)	215808	150.000	153	
16	allyl chloride	41	1.798	1.798	(0.431)	1528079	300.000	325	
17	Acetonitrile	39	1.798	1.798	(0.431)	1038674	150.000	158	
18	Methylene Chloride	84	1.872	1.873	(0.449)	350499	150.000	141	
19	tert-Butyl Alcohol	59	1.915	1.916	(0.459)	41946	300.000	338(M)	WP
20	Acrylonitrile	53	2.006	2.006	(0.481)	372512	600.000	622	
21	Methyl-tert-butyl ether	73	2.033	2.033	(0.487)	849418	150.000	169	
22	1,2-Dichloroethene (trans)	96	2.043	2.044	(0.490)	388091	150.000	156	
23	n-Hexane	57	2.230	2.231	(0.534)	740578	150.000	143	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.337	2.338	(0.560)	2935271	600.000	729	
	25 1,1-Dichloroethane	63	2.348	2.348	(0.562)	730968	150.000	160	
	26 Chloroprene	53	2.401	2.402	(0.575)	655919	150.000	159	
	27 2-Butanone	43	2.807	2.808	(0.672)	644701	750.000	786	
	28 1,2-Dichloroethene (cis)	96	2.823	2.824	(0.676)	404390	150.000	164	
	29 2,2-Dichloropropane	77	2.828	2.829	(0.678)	513710	150.000	179	
	30 Propionitrile	54	2.866	2.872	(0.687)	32374	150.000	158(Q)	
	31 Methacrylonitrile	41	3.015	3.011	(0.722)	169971	150.000	155	
	32 Bromochloromethane	49	3.053	3.053	(0.731)	271107	150.000	150	
	33 Tetrahydrofuran	42	3.079	3.080	(0.738)	82250	150.000	156	
	34 Chloroform	83	3.165	3.165	(0.758)	624260	150.000	155	
$	35 Dibromofluoromethane (S)	113	3.341	3.342	(0.800)	106313	50.0000	50.7	
	36 1,1,1-Trichloroethane	97	3.341	3.342	(0.800)	580193	150.000	165	
	37 Cyclohexane	56	3.427	3.427	(0.821)	711227	150.000	153	
	151 n-Butyl chloride	56	3.491	3.491	(0.836)	896269	150.000	160	
	38 Carbon Tetrachloride	117	3.528	3.523	(0.845)	488372	150.000	167	
	39 1,1-Dichloropropene	75	3.533	3.534	(0.846)	546008	150.000	159	
	40 Benzene	78	3.774	3.774	(0.904)	1495010	150.000	157	
	41 1,2-Dichloroethane	62	3.859	3.860	(0.925)	391588	150.000	149	
	42 Isobutyl alcohol	43	3.955	3.951	(0.948)	343451	150.000	157	
	43 2,2,4-Trimethylpentane	57	3.955	3.951	(0.948)	1760144	150.000	169	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	457850	50.0000		
	45 Trichloroethene	95	4.623	4.624	(1.107)	362503	150.000	158	
	46 Methylcyclohexane	55	4.890	4.891	(1.171)	562939	150.000	164	
	47 1,2-Dichloropropane	63	4.927	4.928	(1.180)	348696	150.000	158	
	48 Methyl methacrylate	69	5.045	5.046	(1.209)	172620	150.000	180	
	49 Dibromomethane	93	5.024	5.024	(1.203)	155138	150.000	152	
	50 1,4-Dioxane	88	5.034	5.035	(1.206)	50333	3000.00	3790	
	51 Bromodichloromethane	83	5.253	5.254	(1.258)	403280	150.000	162	
	52 2-Chloroethyl vinyl ether	63	5.600	5.601	(0.762)	311379	300.000	312	
	53 cis-1,3-Dichloropropene	75	5.750	5.745	(0.783)	485014	150.000	168	
	54 4-Methyl-2-Pentanone	43	5.921	5.921	(0.806)	1197326	750.000	821	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	404937	50.0000	48.7	
	56 Toluene	91	6.097	6.092	(0.830)	1479056	150.000	136	
	57 trans-1,3-Dichloropropene	75	6.380	6.381	(0.868)	371818	150.000	180	
	58 Ethyl Methacrylate	69	6.466	6.466	(0.880)	319440	150.000	182	
	59 1,1,2-Trichloroethane	83	6.567	6.562	(0.894)	181140	150.000	148	
	60 Tetrachloroethene	166	6.621	6.621	(0.901)	348676	150.000	157	
	61 1,3-Dichloropropane	76	6.706	6.707	(0.913)	395130	150.000	148	
	62 2-Hexanone	43	6.775	6.776	(0.922)	768434	750.000	817	
	63 Dibromochloromethane	129	6.893	6.888	(0.938)	236577	150.000	171	
	64 1,2-Dibromoethane	107	6.973	6.974	(0.949)	199249	150.000	153	
*	65 Chlorobenzene-D5 (IS)	117	7.347	7.348	(1.000)	257417	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	796212	150.000	150	
	67 1,1,1,2-Tetrachloroethane	131	7.448	7.444	(1.014)	274779	150.000	175	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	497563	150.000	161	
	69 m&p-Xylene	106	7.550	7.550	(1.028)	1223979	300.000	327	
	70 o-Xylene	106	7.812	7.807	(1.063)	568050	150.000	168	
	71 Styrene	104	7.828	7.823	(1.065)	940640	150.000	166	
	72 Bromoform	173	7.945	7.946	(0.899)	113556	150.000	171	
	73 Isopropylbenzene	105	8.052	8.053	(1.096)	1495750	150.000	165	
$	74 4-Bromofluorobenzene (S)	95	8.164	8.165	(1.111)	113636	50.0000	50.2	
	75 Bromobenzene	77	8.244	8.245	(1.122)	487655	150.000	144	
	76 1,1,2,2-Tetrachloroethane	83	8.255	8.256	(0.934)	237348	150.000	147	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)		REVIEW C
77	trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	63382	150.000	161		
78	1,2,3-Trichloropropane	110	8.287	8.282	(0.937)	66033	150.000	149		
79	n-Propylbenzene	91	8.314	8.314	(0.940)	1793822	150.000	158		
80	2-Chlorotoluene	91	8.362	8.362	(0.946)	940110	150.000	152		
81	1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	1157907	150.000	162		
82	4-Chlorotoluene	126	8.436	8.437	(0.954)	323240	150.000	154		
83	tert-Butylbenzene	119	8.602	8.603	(0.973)	1308137	150.000	165		
84	1,2,4-Trimethylbenzene	105	8.634	8.635	(0.976)	1139679	150.000	156		
85	sec-Butylbenzene	105	8.730	8.731	(0.987)	1546506	150.000	163		
86	1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	549501	150.000	151		
87	p-Isopropyltoluene	119	8.816	8.811	(0.997)	1280762	150.000	163		
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	108322	50.0000		(Q)	
89	1,4-Dichlorobenzene	146	8.853	8.854	(1.001)	541384	150.000	150		
90	n-Butylbenzene	91	9.035	9.030	(1.022)	1238329	150.000	158		
91	1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	492911	150.000	150		
92	1,2-Dibromo-3-chloropropane	155	9.457	9.452	(1.069)	24636	150.000	177		
93	1,2,4-Trichlorobenzene	180	9.863	9.858	(1.115)	287899	150.000	152		
94	Hexachlorobutadiene	225	9.927	9.927	(1.123)	171924	150.000	153		
95	Naphthalene	128	10.001	10.002	(1.131)	629867	150.000	152		
96	1,2,3-Trichlorobenzene	180	10.114	10.114	(1.144)	254201	150.000	145		
97	2,methyl-naphthalene	142	10.632	10.632	(1.202)	388333	150.000	157		
98	1-Methylnaphthalene	142	10.744	10.744	(1.215)	323723	150.000	150		

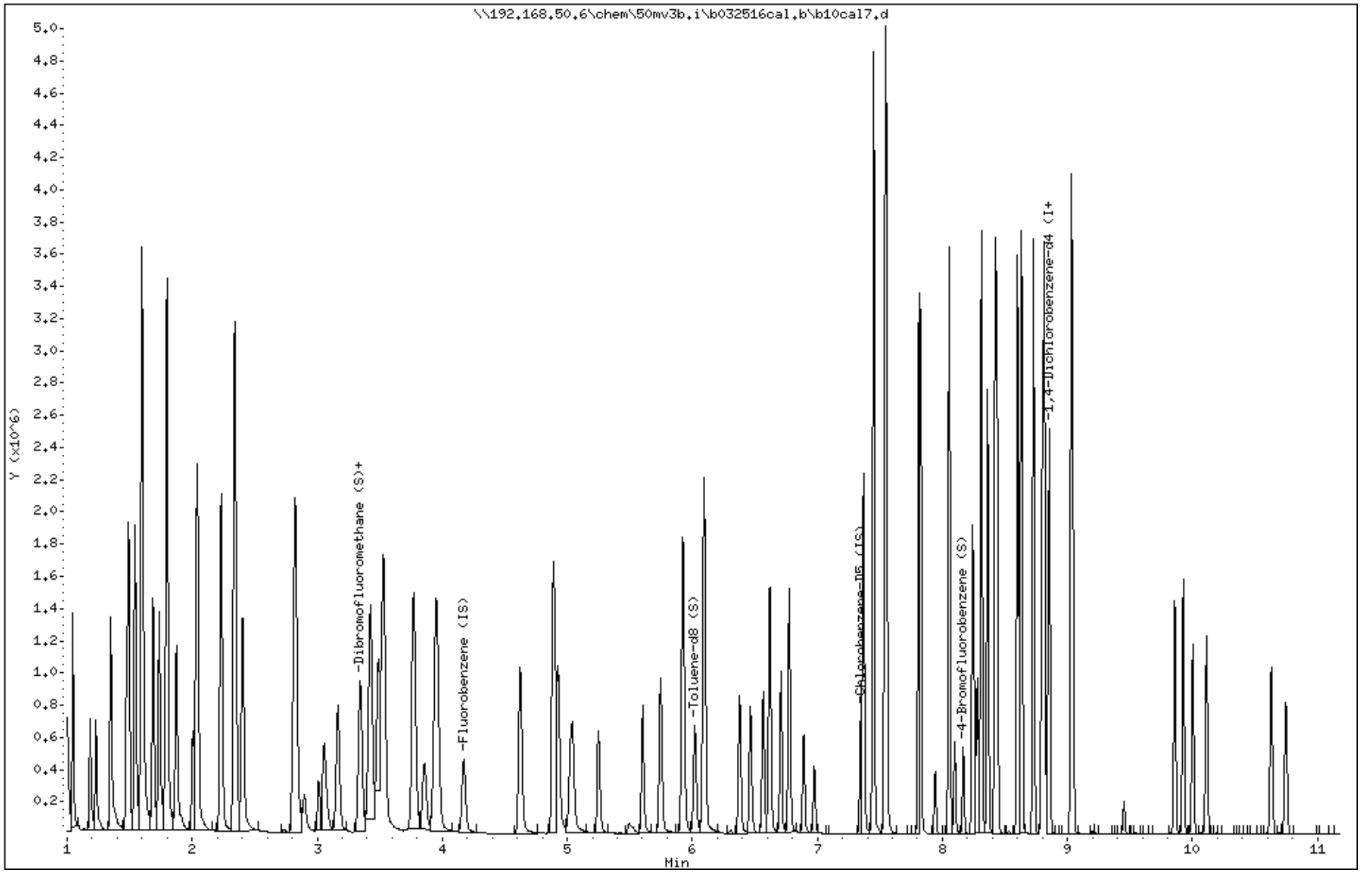
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

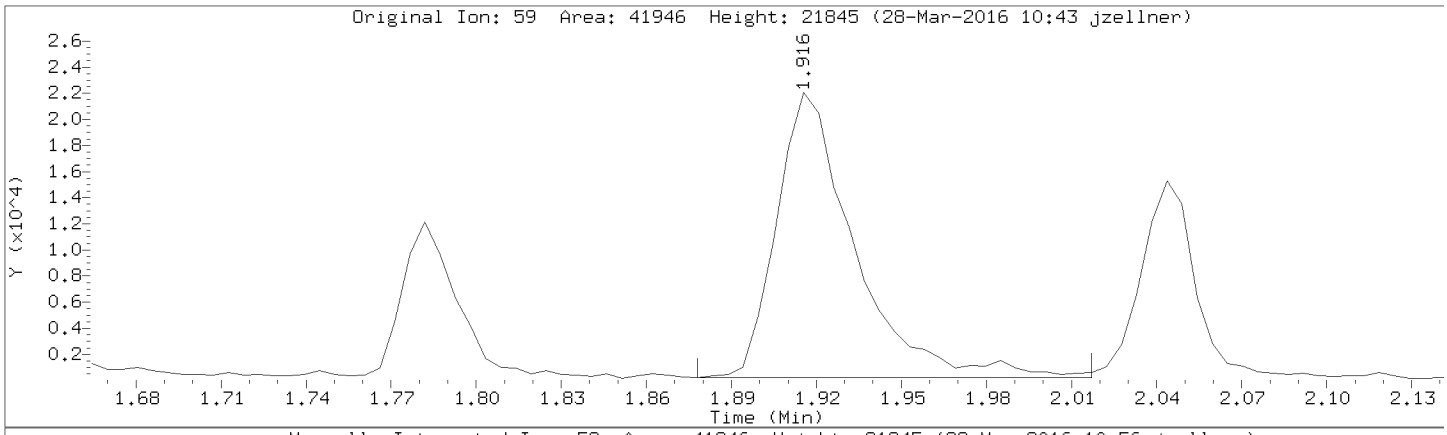
:
WP: Indicates that the wrong peak was chosen by the data system.

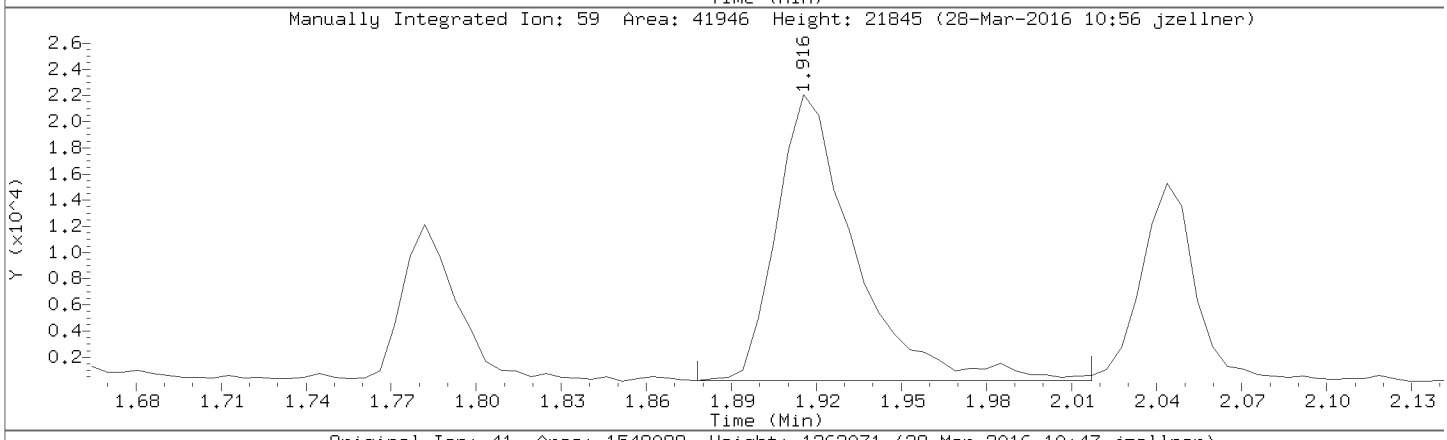
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b10cal7.d
Date : 25-MAR-2016 19:05
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL7,117892:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

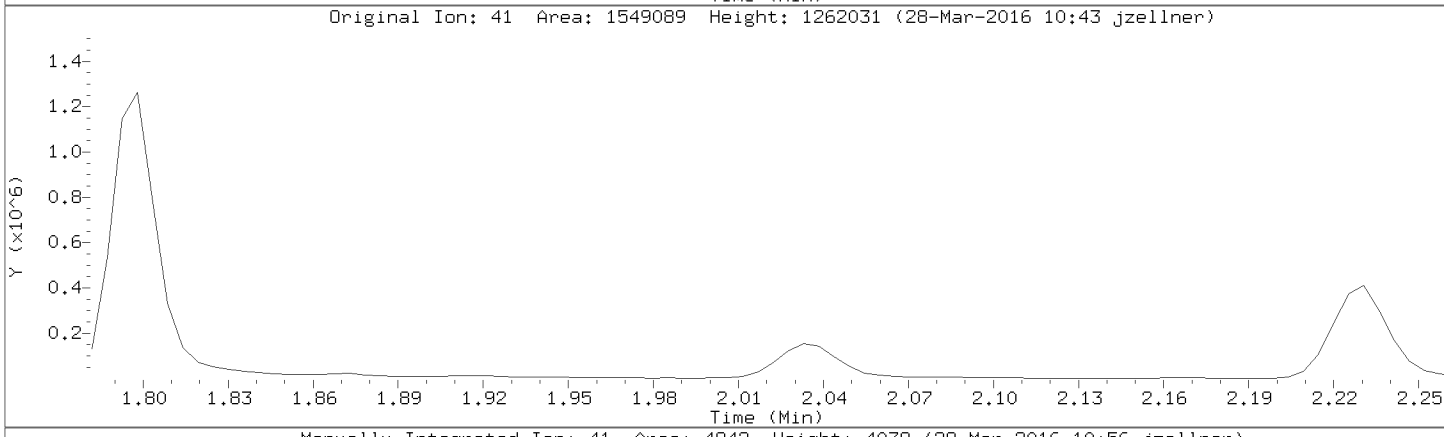


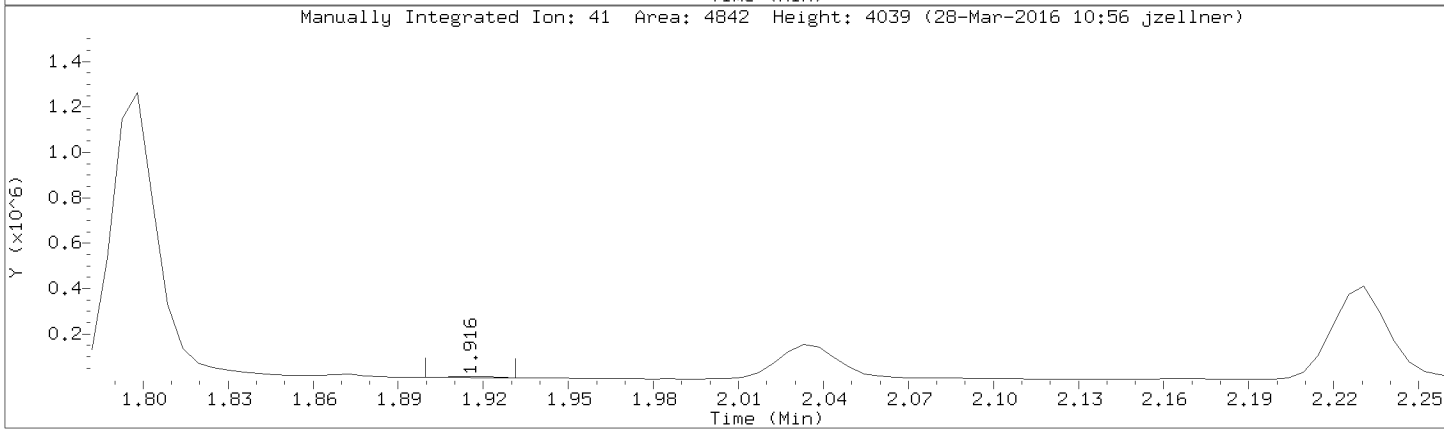
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b10cal7.d
Injection Date: 25-MAR-2016 19:05
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL7,117892:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b11cal8.d
Lab Smp Id: 8260-CAL8,117893:0
Inj Date : 25-MAR-2016 19:37
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-cal8,117893:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i   Quant Type: ISTD
Cal Date :   Cal File:
Als bottle: 24   Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.913	0.917	(0.219)	1073092	300.000	277	
2	Chloromethane	50	0.993	0.997	(0.238)	1592970	300.000	267	
3	Vinyl Chloride	62	1.041	1.045	(0.250)	1360541	300.000	265	
4	Bromomethane	94	1.180	1.189	(0.283)	466089	300.000	188	
5	Chloroethane	64	1.228	1.237	(0.295)	553492	300.000	179	
6	Trichlorofluoromethane	101	1.346	1.350	(0.323)	1604325	300.000	272	
7	Diethyl ether	74	1.469	1.472	(0.352)	494491	300.000	284	
8	1,2-dichlorotrifluoroethane	67	1.490	1.488	(0.357)	1181116	300.000	270	
9	Acrolein	56	1.543	1.542	(0.370)	2100509	6000.00	5080	
10	1,1,2trichlorotrifluoroethane	101	1.591	1.601	(0.382)	1071769	300.000	283	
11	1,1-Dichloroethene	96	1.597	1.601	(0.383)	908844	300.000	283	
12	Acetone	43	1.613	1.611	(0.387)	882783	1500.00	1230	
13	Iodomethane	142	1.682	1.686	(0.403)	2264211	600.000	633	
14	Carbon Disulfide	76	1.794	1.798	(0.430)	1198376	300.000	310	
15	Methyl Acetate	43	1.778	1.782	(0.426)	488058	300.000	301	
16	allyl chloride	41	1.794	1.798	(0.430)	3213634	600.000	596(M)	NI
17	Acetonitrile	39	1.794	1.798	(0.430)	2262410	300.000	300	
18	Methylene Chloride	84	1.869	1.873	(0.448)	781688	300.000	274	
19	tert-Butyl Alcohol	59	1.923	1.916	(0.461)	95411	600.000	670(M)	WP
20	Acrylonitrile	53	2.003	2.006	(0.480)	828436	1200.00	1200	
21	Methyl-tert-butyl ether	73	2.035	2.033	(0.488)	2047912	300.000	354	
22	1,2-Dichloroethene (trans)	96	2.040	2.044	(0.489)	917043	300.000	320	
23	n-Hexane	57	2.227	2.231	(0.534)	1742077	300.000	292	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.339	2.338	(0.561)	6844389	1200.00	1480	
	25 1,1-Dichloroethane	63	2.344	2.348	(0.562)	1757943	300.000	335	
	26 Chloroprene	53	2.403	2.402	(0.576)	1559650	300.000	328	
	27 2-Butanone	43	2.809	2.808	(0.673)	1452590	1500.00	1540	
	28 1,2-Dichloroethene (cis)	96	2.820	2.824	(0.676)	954672	300.000	336	
	29 2,2-Dichloropropane	77	2.825	2.829	(0.677)	1283429	300.000	390	
	30 Propionitrile	54	2.863	2.872	(0.686)	78990	300.000	336(Q)	
	31 Methacrylonitrile	41	3.012	3.011	(0.722)	379059	300.000	301	
	32 Bromochloromethane	49	3.055	3.053	(0.732)	605933	300.000	291	
	33 Tetrahydrofuran	42	3.076	3.080	(0.738)	181487	300.000	298	
	34 Chloroform	83	3.162	3.165	(0.758)	1421980	300.000	308	
$	35 Dibromofluoromethane (S)	113	3.338	3.342	(0.800)	122071	50.0000	50.7	
	36 1,1,1-Trichloroethane	97	3.338	3.342	(0.800)	1351722	300.000	335	
	37 Cyclohexane	56	3.423	3.427	(0.821)	1670297	300.000	313	
	151 n-Butyl chloride	56	3.487	3.491	(0.836)	2030418	300.000	314	
	38 Carbon Tetrachloride	117	3.525	3.523	(0.845)	1175843	300.000	350	
	39 1,1-Dichloropropene	75	3.530	3.534	(0.846)	1260540	300.000	319	
	40 Benzene	78	3.771	3.774	(0.904)	3375516	300.000	309	
	41 1,2-Dichloroethane	62	3.856	3.860	(0.924)	893569	300.000	295	
	42 Isobutyl alcohol	43	3.952	3.951	(0.948)	820211	300.000	326	
	43 2,2,4-Trimethylpentane	57	3.952	3.951	(0.948)	4106099	300.000	343	
*	44 Fluorobenzene (IS)	96	4.171	4.175	(1.000)	526165	50.0000		
	45 Trichloroethene	95	4.625	4.624	(1.109)	824609	300.000	314	
	46 Methylcyclohexane	55	4.892	4.891	(1.173)	1304199	300.000	330	
	47 1,2-Dichloropropane	63	4.930	4.928	(1.182)	787755	300.000	312	
	48 Methyl methacrylate	69	5.042	5.046	(1.209)	383281	300.000	349	
	49 Dibromomethane	93	5.026	5.024	(1.205)	349593	300.000	298	
	50 1,4-Dioxane	88	5.042	5.035	(1.209)	107576	6000.00	7040	
	51 Bromodichloromethane	83	5.250	5.254	(1.259)	918442	300.000	321	
	52 2-Chloroethyl vinyl ether	63	5.603	5.601	(0.763)	681710	600.000	595	
	53 cis-1,3-Dichloropropene	75	5.747	5.745	(0.783)	1102773	300.000	337	
	54 4-Methyl-2-Pentanone	43	5.923	5.921	(0.807)	2672337	1500.00	1610	
$	55 Toluene-d8 (S)	98	6.024	6.023	(0.820)	459780	50.0000	48.6	
	56 Toluene	91	6.094	6.092	(0.830)	3463600	300.000	281	
	57 trans-1,3-Dichloropropene	75	6.382	6.381	(0.869)	858442	300.000	365	
	58 Ethyl Methacrylate	69	6.468	6.466	(0.881)	691333	300.000	346	
	59 1,1,2-Trichloroethane	83	6.564	6.562	(0.894)	399379	300.000	286	
	60 Tetrachloroethene	166	6.617	6.621	(0.901)	848585	300.000	337	
	61 1,3-Dichloropropane	76	6.708	6.707	(0.913)	875980	300.000	289	
	62 2-Hexanone	43	6.778	6.776	(0.923)	1670672	1500.00	1560	
	63 Dibromochloromethane	129	6.890	6.888	(0.938)	552885	300.000	352	
	64 1,2-Dibromoethane	107	6.975	6.974	(0.950)	451425	300.000	305	
*	65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	292533	50.0000		
	66 Chlorobenzene	112	7.370	7.369	(1.004)	1897674	300.000	315	
	67 1,1,1,2-Tetrachloroethane	131	7.445	7.444	(1.014)	728943	300.000	408	
	68 Ethylbenzene	106	7.451	7.449	(1.015)	1263772	300.000	360	
	69 m&p-Xylene	106	7.552	7.550	(1.028)	3136090	600.000	738	
	70 o-Xylene	106	7.808	7.807	(1.063)	1348749	300.000	350	
	71 Styrene	104	7.824	7.823	(1.065)	2270820	300.000	352	
	72 Bromoform	173	7.942	7.946	(0.898)	266105	300.000	343	
	73 Isopropylbenzene	105	8.054	8.053	(1.097)	3585482	300.000	348	
$	74 4-Bromofluorobenzene (S)	95	8.166	8.165	(1.112)	127262	50.0000	49.5	
	75 Bromobenzene	77	8.246	8.245	(1.123)	1097162	300.000	286	
	76 1,1,2,2-Tetrachloroethane	83	8.257	8.256	(0.934)	508129	300.000	270	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
77	trans-1,4-Dichloro-2-butene	53	8.278	8.277	(1.127)	141072	300.000	315	
78	1,2,3-Trichloropropane	110	8.284	8.282	(0.937)	145377	300.000	282	
79	n-Propylbenzene	91	8.316	8.314	(0.940)	4151430	300.000	314	
80	2-Chlorotoluene	91	8.364	8.362	(0.946)	2173017	300.000	300	
81	1,3,5-Trimethylbenzene	105	8.423	8.421	(0.952)	2938820	300.000	352	
82	4-Chlorotoluene	126	8.439	8.437	(0.954)	809521	300.000	330	
83	tert-Butylbenzene	119	8.604	8.603	(0.973)	3206982	300.000	347	
84	1,2,4-Trimethylbenzene	105	8.636	8.635	(0.976)	2756561	300.000	323	
85	sec-Butylbenzene	105	8.732	8.731	(0.987)	3620411	300.000	328	
86	1,3-Dichlorobenzene	146	8.796	8.795	(0.995)	1343084	300.000	316	
87	p-Isopropyltoluene	119	8.818	8.811	(0.997)	3185655	300.000	347	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.845	8.843	(1.000)	126410	50.0000	(Q)	
89	1,4-Dichlorobenzene	146	8.855	8.854	(1.001)	1305928	300.000	311	
90	n-Butylbenzene	91	9.037	9.030	(1.022)	2946361	300.000	321	
91	1,2-Dichlorobenzene	146	9.048	9.046	(1.023)	1218208	300.000	317	
92	1,2-Dibromo-3-chloropropane	155	9.453	9.452	(1.069)	54234	300.000	333	
93	1,2,4-Trichlorobenzene	180	9.859	9.858	(1.115)	671929	300.000	304	
94	Hexachlorobutadiene	225	9.929	9.927	(1.123)	419866	300.000	321	
95	Naphthalene	128	10.004	10.002	(1.131)	1429425	300.000	295	
96	1,2,3-Trichlorobenzene	180	10.116	10.114	(1.144)	597175	300.000	292	
97	2,methyl-naphthalene	142	10.634	10.632	(1.202)	880312	300.000	306	
98	1-Methylnaphthalene	142	10.746	10.744	(1.215)	734234	300.000	290	

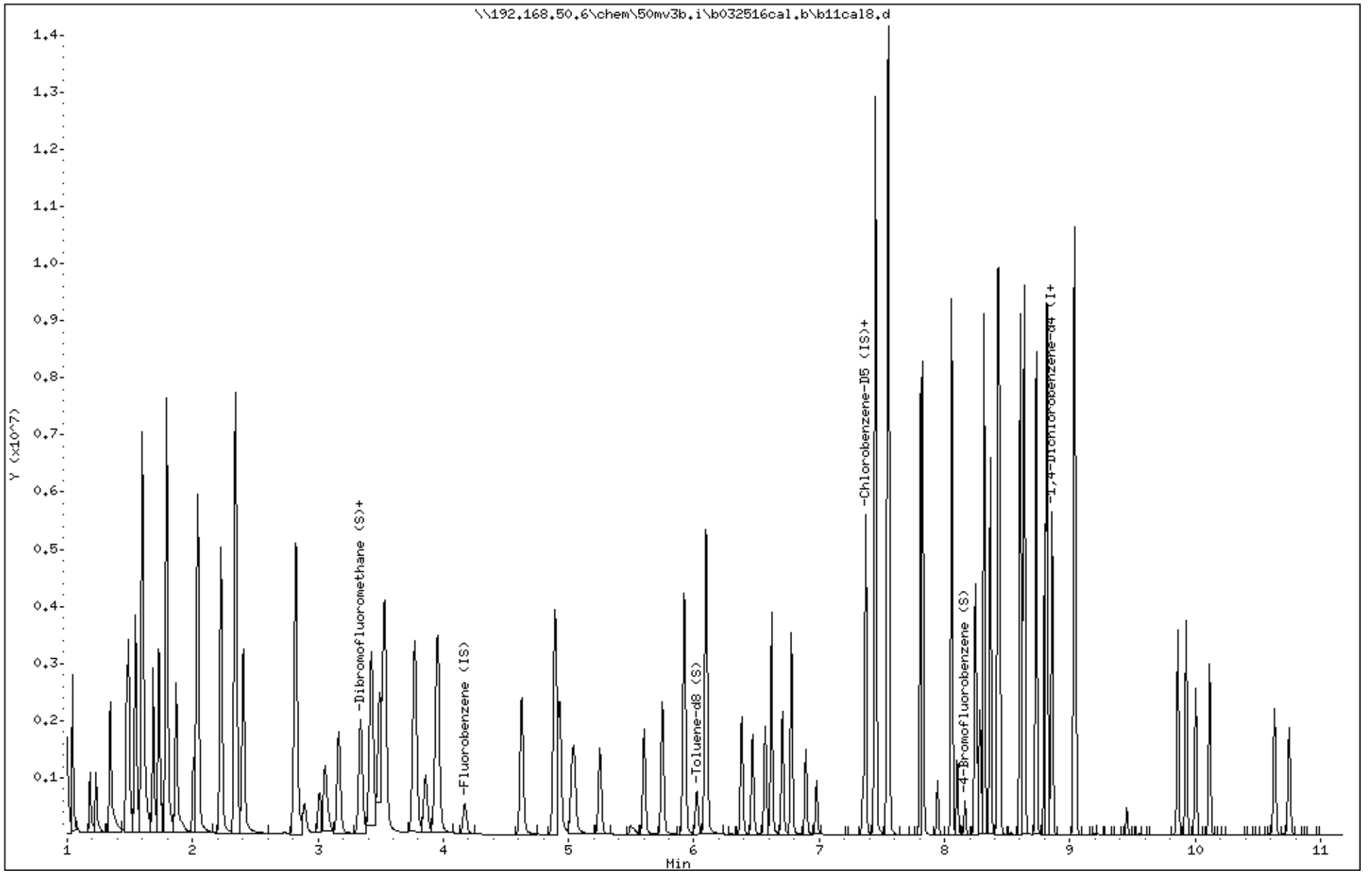
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

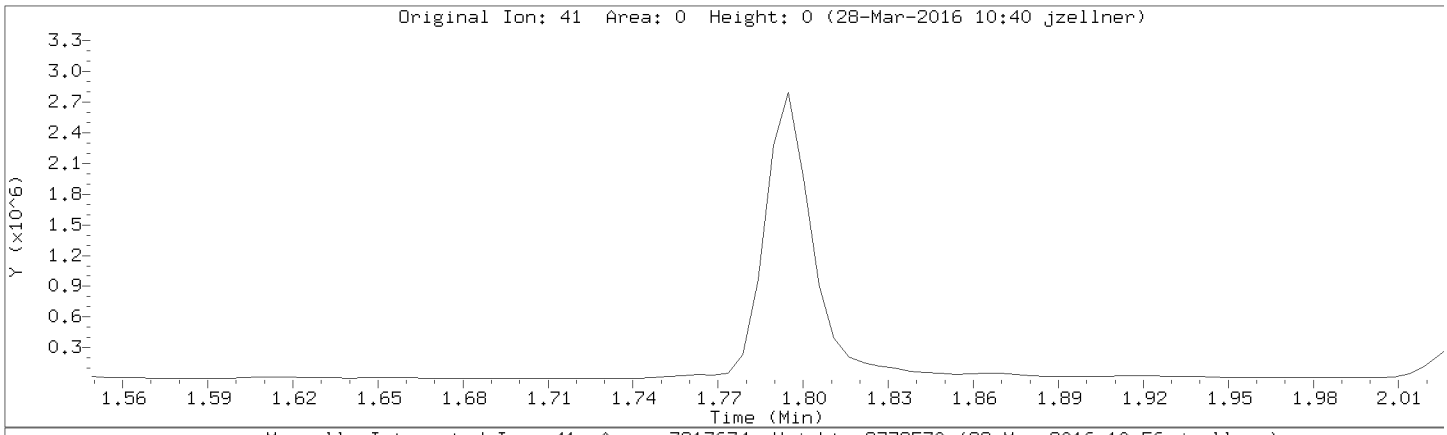
:
NI: Indicates that the peak was not integrated at all by the computer software.
WP: Indicates that the wrong peak was chosen by the data system.

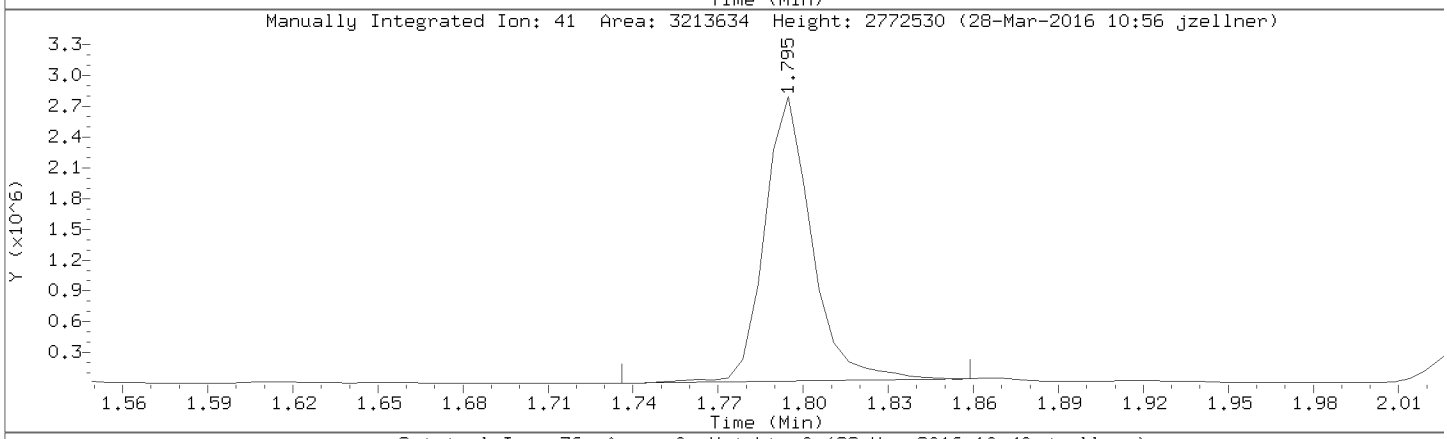
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b11cal8.d
Date : 25-MAR-2016 19:37
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CAL8,117893:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

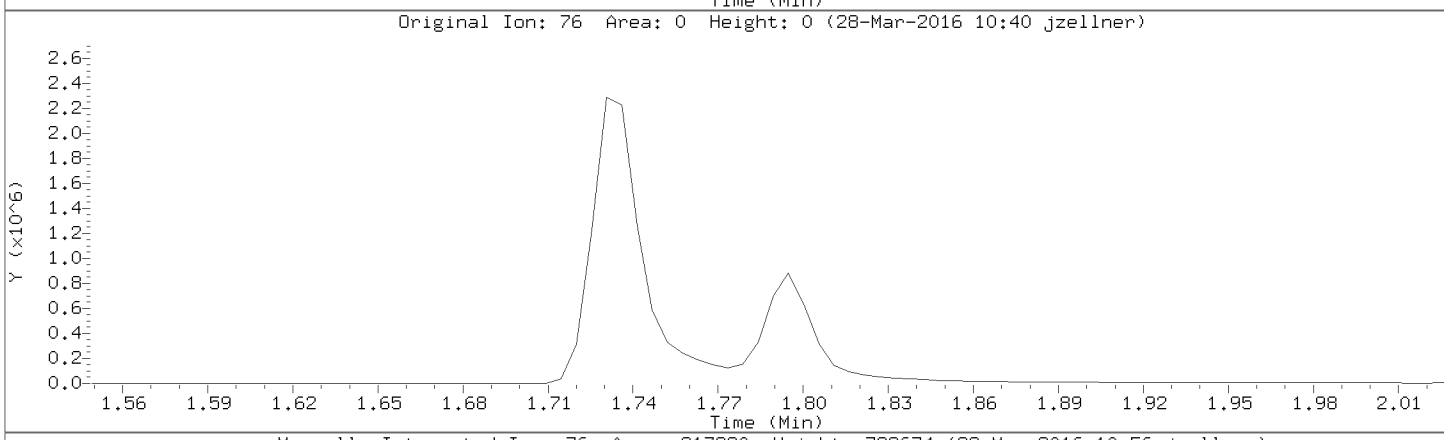


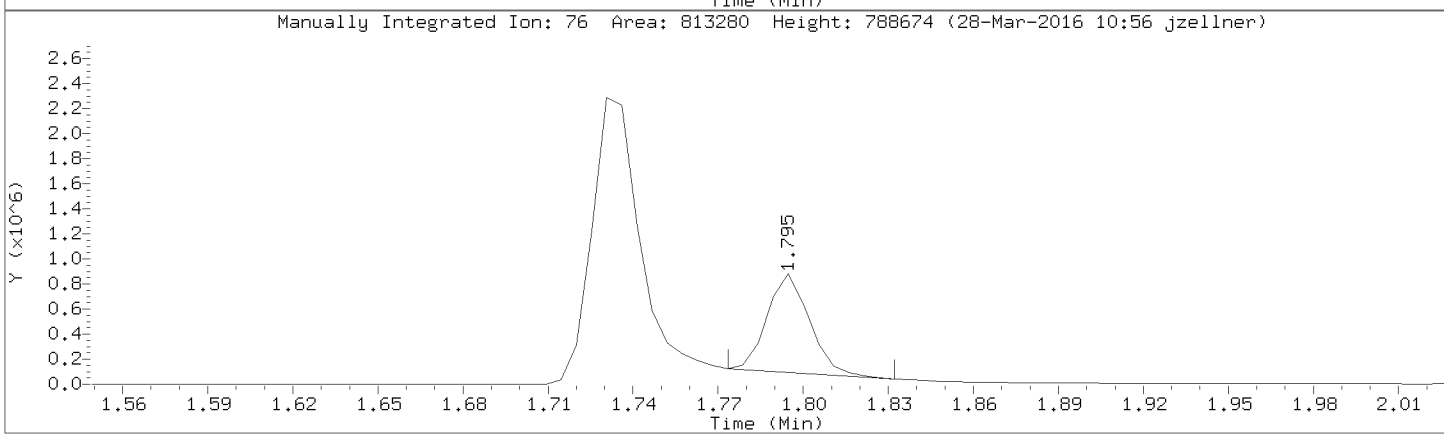
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b11cal8.d
Injection Date: 25-MAR-2016 19:37
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL8,117893:0

Compound: allyl chloride Review Code: NI
CAS Number: 107-05-1



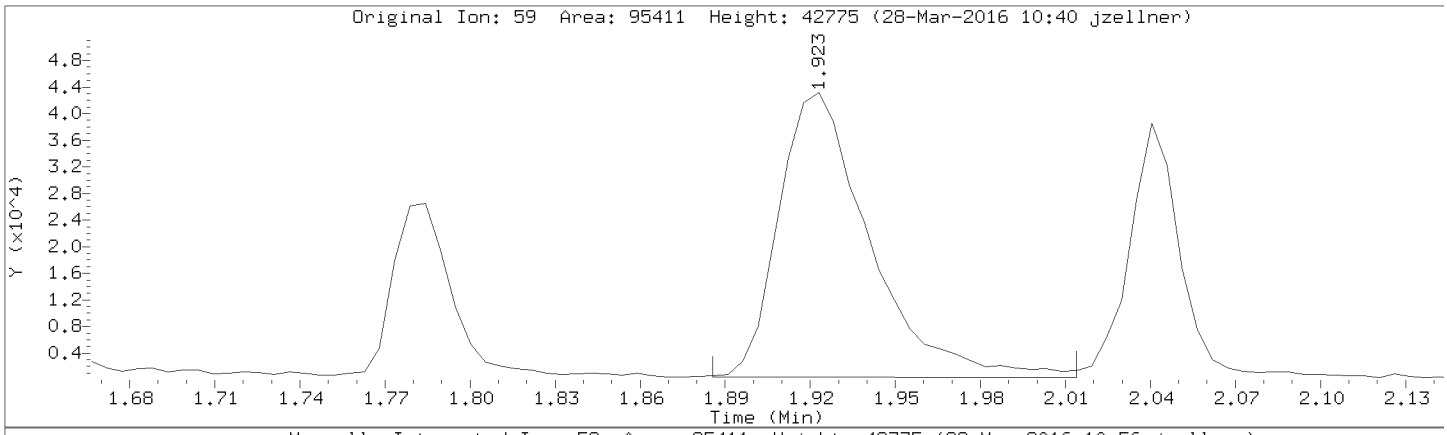


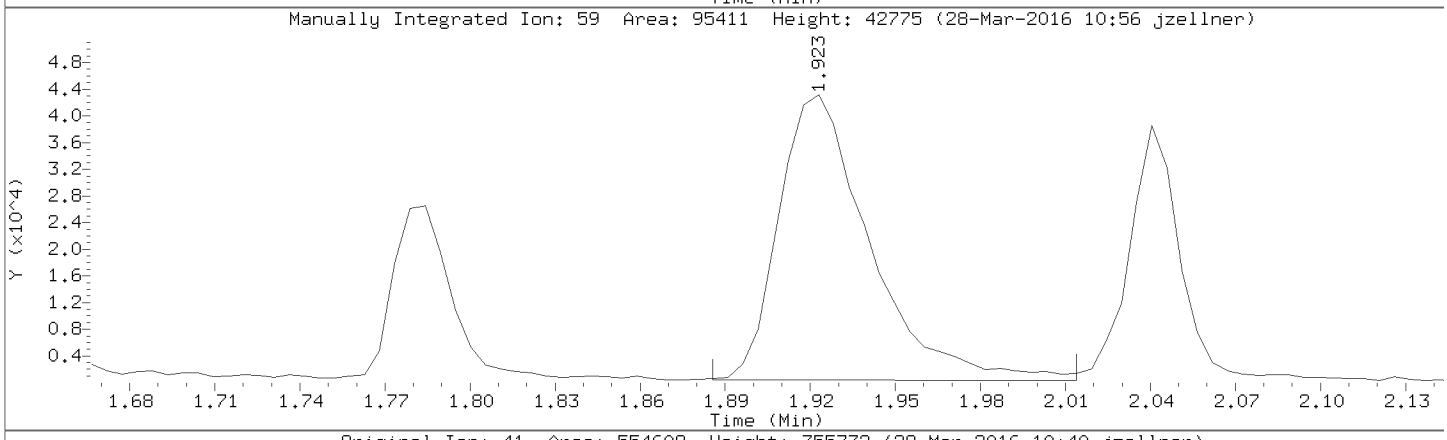


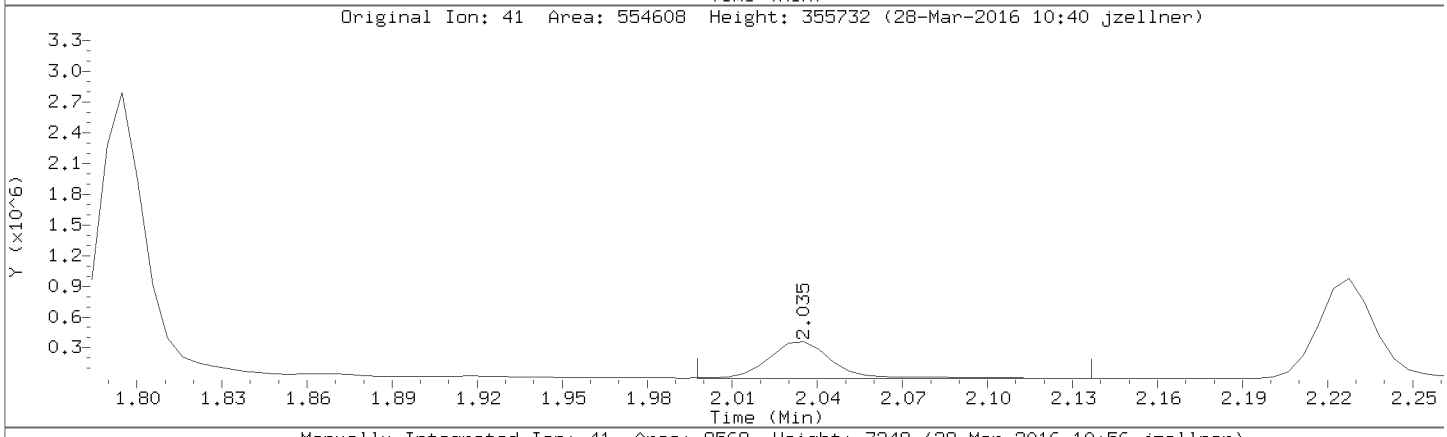


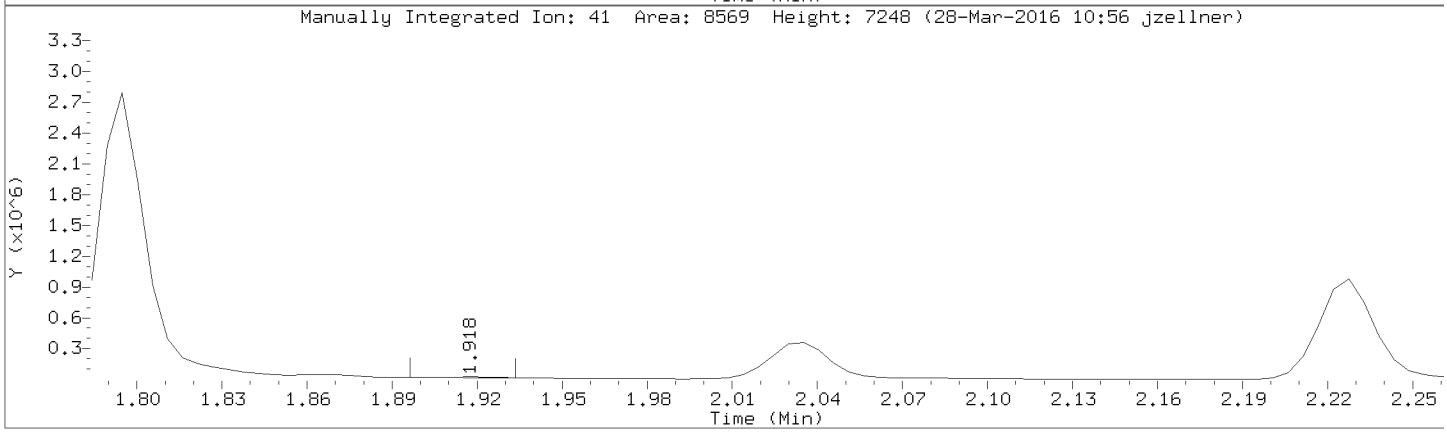
Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b11cal8.d
Injection Date: 25-MAR-2016 19:37
Instrument: 50mv3b.i
Lab Sample ID: 8260-CAL8,117893:0

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0









SAMPLE NO.

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

9564609CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 10:38

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041116.B\A01CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.06323	0.05519	0.0100	-12.7107	20.0000
Benzene	Averaged	1.03661	1.00479	0.5000	-3.0695	20.0000
Bromodichloromethane	Averaged	0.27672	0.26699	0.2000	-3.5150	20.0000
Bromoform	Averaged	0.34349	0.41877	0.1000	21.9162	20.0000
Bromomethane	Averaged	0.21185	0.15651	0.1000	-26.1245	20.0000
2-Butanone (MEK)	Linear	250	249.4536	0.0100	-0.2186	20.0000
Carbon disulfide	Averaged	0.99384	0.89125	0.1000	-10.3228	20.0000
Carbon tetrachloride	Averaged	0.31657	0.34802	0.1000	9.9344	20.0000
Chlorobenzene	Averaged	1.01720	0.97962	0.5000	-3.6942	20.0000
Chloroethane	Averaged	0.24239	0.19094	0.1000	-21.2228	20.0000
Chloroform	Averaged	0.43562	0.41661	0.2000	-4.3645	20.0000
Chloromethane	Averaged	0.43040	0.30235	0.1000	-29.7506	20.0000
Cyclohexane	Averaged	0.51602	0.49563	0.1000	-3.9523	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.06558	0.07044	0.0500	7.4100	20.0000
Dibromochloromethane	Averaged	0.29628	0.33305	0.1000	12.4078	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.25548	0.26581	0.1000	4.0451	20.0000
1,2-Dichlorobenzene	Averaged	1.46306	1.31951	0.4000	-9.8112	20.0000
1,3-Dichlorobenzene	Averaged	1.63284	1.51643	0.6000	-7.1291	20.0000
1,4-Dichlorobenzene	Averaged	1.68434	1.55966	0.5000	-7.4021	20.0000
Dichlorodifluoromethane	Averaged	0.31578	0.21536	0.1000	-31.8011	20.0000
1,1-Dichloroethane	Averaged	0.49376	0.45841	0.2000	-7.1587	20.0000
1,2-Dichloroethane	Averaged	0.28390	0.28077	0.1000	-1.1024	20.0000
1,1-Dichloroethene	Averaged	0.30007	0.29839	0.1000	-0.5594	20.0000
cis-1,2-Dichloroethene	Averaged	0.27395	0.26803	0.1000	-2.1608	20.0000
trans-1,2-Dichloroethene	Averaged	0.27583	0.25411	0.1000	-7.8765	20.0000
1,2-Dichloropropane	Averaged	0.23680	0.22208	0.1000	-6.2189	20.0000
cis-1,3-Dichloropropene	Averaged	0.61412	0.66252	0.2000	7.8821	20.0000
trans-1,3-Dichloropropene	Averaged	0.43531	0.48997	0.1000	12.5562	20.0000
Ethylbenzene	Averaged	0.57634	0.57929	0.1000	0.5117	20.0000
2-Hexanone	Averaged	0.19630	0.22396	0.0500	14.0875	20.0000
Isopropylbenzene (Cumene)	Averaged	1.61414	1.60597	0.1000	-0.5060	20.0000
Methyl acetate	Averaged	0.16931	0.14372	0.1000	-15.1147	20.0000
Methylcyclohexane	Averaged	0.37173	0.37411	0.1000	0.6412	20.0000
Methylene Chloride	Averaged	0.25575	0.21589	0.1000	-15.5872	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.32325	0.37051	0.0500	14.6227	20.0000
Methyl-tert-butyl ether	Averaged	0.58828	0.55419	0.1000	-5.7948	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9564609CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 10:38

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041116.B\A01CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.01611	0.99753	0.3000	-1.8284	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.79749	0.70667	0.3000	-11.3888	20.0000
Tetrachloroethene	Averaged	0.43747	0.48043	0.2000	9.8200	20.0000
Toluene	Averaged	2.20210	1.99873	0.4000	-9.2353	20.0000
1,2,4-Trichlorobenzene	Averaged	0.89707	0.83277	0.2000	-7.1673	20.0000
1,1,1-Trichloroethane	Averaged	0.37645	0.40787	0.1000	8.3482	20.0000
1,1,2-Trichloroethane	Averaged	0.26032	0.25441	0.1000	-2.2718	20.0000
Trichloroethene	Averaged	0.25343	0.24730	0.2000	-2.4196	20.0000
Trichlorofluoromethane	Averaged	0.53141	0.45770	0.1000	-13.8708	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.35068	0.35382	0.1000	0.8930	20.0000
Vinyl chloride	Averaged	0.42491	0.33484	0.1000	-21.1968	20.0000
m&p-Xylene	Averaged	0.70267	0.69702	0.1000	-0.8048	20.0000
o-Xylene	Averaged	0.62252	0.61981	0.3000	-0.4358	20.0000
4-Bromofluorobenzene (S)	Averaged	0.41313	0.38612	0.1000	-6.5374	20.0000
Dibromofluoromethane (S)	Averaged	0.22529	0.22124	0.1000	-1.7962	20.0000
Toluene-d8 (S)	Averaged	1.71774	1.71199	0.1000	-0.3347	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

9564579CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 23:30

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041116.B\C02LCSW-CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.06323	0.05497	0.0100	-13.0638	20.0000
Benzene	Averaged	1.03661	0.97331	0.5000	-6.1065	20.0000
Bromodichloromethane	Averaged	0.27672	0.26109	0.2000	-5.6481	20.0000
Bromoform	Averaged	0.34349	0.39540	0.1000	15.1117	20.0000
Bromomethane	Averaged	0.21185	0.18087	0.1000	-14.6240	20.0000
2-Butanone (MEK)	Linear	250	251.1336	0.0100	0.4535	20.0000
Carbon disulfide	Averaged	0.99384	0.83004	0.1000	-16.4812	20.0000
Carbon tetrachloride	Averaged	0.31657	0.33767	0.1000	6.6630	20.0000
Chlorobenzene	Averaged	1.01720	0.97222	0.5000	-4.4218	20.0000
Chloroethane	Averaged	0.24239	0.20427	0.1000	-15.7239	20.0000
Chloroform	Averaged	0.43562	0.41126	0.2000	-5.5922	20.0000
Chloromethane	Averaged	0.43040	0.32864	0.1000	-23.6428	20.0000
Cyclohexane	Averaged	0.51602	0.47503	0.1000	-7.9439	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.06558	0.06869	0.0500	4.7366	20.0000
Dibromochloromethane	Averaged	0.29628	0.33348	0.1000	12.5540	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.25548	0.27646	0.1000	8.2112	20.0000
1,2-Dichlorobenzene	Averaged	1.46306	1.31822	0.4000	-9.9000	20.0000
1,3-Dichlorobenzene	Averaged	1.63284	1.54339	0.6000	-5.4778	20.0000
1,4-Dichlorobenzene	Averaged	1.68434	1.51529	0.5000	-10.0366	20.0000
Dichlorodifluoromethane	Averaged	0.31578	0.27241	0.1000	-13.7349	20.0000
1,1-Dichloroethane	Averaged	0.49376	0.45531	0.2000	-7.7879	20.0000
1,2-Dichloroethane	Averaged	0.28390	0.29058	0.1000	2.3534	20.0000
1,1-Dichloroethene	Averaged	0.30007	0.27743	0.1000	-7.5473	20.0000
cis-1,2-Dichloroethene	Averaged	0.27395	0.26928	0.1000	-1.7069	20.0000
trans-1,2-Dichloroethene	Averaged	0.27583	0.25167	0.1000	-8.7585	20.0000
1,2-Dichloropropane	Averaged	0.23680	0.22287	0.1000	-5.8822	20.0000
cis-1,3-Dichloropropene	Averaged	0.61412	0.61085	0.2000	-0.5328	20.0000
trans-1,3-Dichloropropene	Averaged	0.43531	0.44870	0.1000	3.0748	20.0000
Ethylbenzene	Averaged	0.57634	0.58081	0.1000	0.7743	20.0000
2-Hexanone	Averaged	0.19630	0.22283	0.0500	13.5124	20.0000
Isopropylbenzene (Cumene)	Averaged	1.61414	1.60291	0.1000	-0.6957	20.0000
Methyl acetate	Averaged	0.16931	0.14423	0.1000	-14.8124	20.0000
Methylcyclohexane	Averaged	0.37173	0.36773	0.1000	-1.0754	20.0000
Methylene Chloride	Averaged	0.25575	0.22020	0.1000	-13.9029	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.32325	0.37600	0.0500	16.3189	20.0000
Methyl-tert-butyl ether	Averaged	0.58828	0.58087	0.1000	-1.2592	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

9564579CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 23:30

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041116.B\C02LCSW-CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.01611	0.98635	0.3000	-2.9288	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.79749	0.74362	0.3000	-6.7548	20.0000
Tetrachloroethene	Averaged	0.43747	0.45697	0.2000	4.4582	20.0000
Toluene	Averaged	2.20210	1.96096	0.4000	-10.9505	20.0000
1,2,4-Trichlorobenzene	Averaged	0.89707	0.75102	0.2000	-16.2810	20.0000
1,1,1-Trichloroethane	Averaged	0.37645	0.37774	0.1000	0.3440	20.0000
1,1,2-Trichloroethane	Averaged	0.26032	0.25057	0.1000	-3.7476	20.0000
Trichloroethene	Averaged	0.25343	0.23704	0.2000	-6.4678	20.0000
Trichlorofluoromethane	Averaged	0.53141	0.49965	0.1000	-5.9763	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.35068	0.32877	0.1000	-6.2490	20.0000
Vinyl chloride	Averaged	0.42491	0.38044	0.1000	-10.4671	20.0000
m&p-Xylene	Averaged	0.70267	0.68917	0.1000	-1.9214	20.0000
o-Xylene	Averaged	0.62252	0.60912	0.3000	-2.1523	20.0000
4-Bromofluorobenzene (S)	Averaged	0.41313	0.36879	0.1000	-10.7314	20.0000
Dibromofluoromethane (S)	Averaged	0.22529	0.22871	0.1000	1.5208	20.0000
Toluene-d8 (S)	Averaged	1.71774	1.73161	0.1000	0.8079	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

9568164CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/13/2016 Time: 00:12

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041216.B\G01CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.06323	0.06316	0.0100	-0.1032	20.0000
Benzene	Averaged	1.03661	1.04211	0.5000	0.5301	20.0000
Bromodichloromethane	Averaged	0.27672	0.28648	0.2000	3.5282	20.0000
Bromoform	Averaged	0.34349	0.40331	0.1000	17.4137	20.0000
Bromomethane	Averaged	0.21185	0.21042	0.1000	-0.6743	20.0000
2-Butanone (MEK)	Linear	250	259.1953	0.0100	3.6781	20.0000
Carbon disulfide	Averaged	0.99384	0.77373	0.1000	-22.1471	20.0000
Carbon tetrachloride	Averaged	0.31657	0.34510	0.1000	9.0112	20.0000
Chlorobenzene	Averaged	1.01720	0.95667	0.5000	-5.9505	20.0000
Chloroethane	Averaged	0.24239	0.23369	0.1000	-3.5887	20.0000
Chloroform	Averaged	0.43562	0.43855	0.2000	0.6723	20.0000
Chloromethane	Averaged	0.43040	0.38356	0.1000	-10.8832	20.0000
Cyclohexane	Averaged	0.51602	0.49037	0.1000	-4.9721	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.06558	0.06547	0.0500	-0.1682	20.0000
Dibromochloromethane	Averaged	0.29628	0.31540	0.1000	6.4520	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.25548	0.26797	0.1000	4.8914	20.0000
1,2-Dichlorobenzene	Averaged	1.46306	1.39605	0.4000	-4.5800	20.0000
1,3-Dichlorobenzene	Averaged	1.63284	1.54705	0.6000	-5.2539	20.0000
1,4-Dichlorobenzene	Averaged	1.68434	1.51445	0.5000	-10.0866	20.0000
Dichlorodifluoromethane	Averaged	0.31578	0.29062	0.1000	-7.9693	20.0000
1,1-Dichloroethane	Averaged	0.49376	0.47280	0.2000	-4.2460	20.0000
1,2-Dichloroethane	Averaged	0.28390	0.30346	0.1000	6.8916	20.0000
1,1-Dichloroethene	Averaged	0.30007	0.31235	0.1000	4.0919	20.0000
cis-1,2-Dichloroethene	Averaged	0.27395	0.26931	0.1000	-1.6947	20.0000
trans-1,2-Dichloroethene	Averaged	0.27583	0.24946	0.1000	-9.5595	20.0000
1,2-Dichloropropane	Averaged	0.23680	0.23324	0.1000	-1.5058	20.0000
cis-1,3-Dichloropropene	Averaged	0.61412	0.59688	0.2000	-2.8067	20.0000
trans-1,3-Dichloropropene	Averaged	0.43531	0.41763	0.1000	-4.0613	20.0000
Ethylbenzene	Averaged	0.57634	0.56811	0.1000	-1.4286	20.0000
2-Hexanone	Averaged	0.19630	0.20675	0.0500	5.3223	20.0000
Isopropylbenzene (Cumene)	Averaged	1.61414	1.55489	0.1000	-3.6704	20.0000
Methyl acetate	Averaged	0.16931	0.13743	0.1000	-18.8315	20.0000
Methylcyclohexane	Averaged	0.37173	0.37578	0.1000	1.0908	20.0000
Methylene Chloride	Averaged	0.25575	0.22604	0.1000	-11.6173	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.32325	0.34078	0.0500	5.4242	20.0000
Methyl-tert-butyl ether	Averaged	0.58828	0.55859	0.1000	-5.0471	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

9568164CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/13/2016 Time: 00:12

Instrument ID: 50MV3A GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: A041216.B\G01CCV.D Init. Calib. Time(s): 15:37 19:21

SDG No.: 50141666

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.01611	0.99770	0.3000	-1.8113	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.79749	0.73239	0.3000	-8.1630	20.0000
Tetrachloroethene	Averaged	0.43747	0.45781	0.2000	4.6487	20.0000
Toluene	Averaged	2.20210	1.92387	0.4000	-12.6346	20.0000
1,2,4-Trichlorobenzene	Averaged	0.89707	0.74689	0.2000	-16.7411	20.0000
1,1,1-Trichloroethane	Averaged	0.37645	0.39926	0.1000	6.0601	20.0000
1,1,2-Trichloroethane	Averaged	0.26032	0.24696	0.1000	-5.1328	20.0000
Trichloroethene	Averaged	0.25343	0.24566	0.2000	-3.0646	20.0000
Trichlorofluoromethane	Averaged	0.53141	0.56473	0.1000	6.2714	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.35068	0.37073	0.1000	5.7165	20.0000
Vinyl chloride	Averaged	0.42491	0.40904	0.1000	-3.7351	20.0000
m&p-Xylene	Averaged	0.70267	0.68439	0.1000	-2.6013	20.0000
o-Xylene	Averaged	0.62252	0.60548	0.3000	-2.7371	20.0000
4-Bromofluorobenzene (S)	Averaged	0.41313	0.37040	0.1000	-10.3429	20.0000
Dibromofluoromethane (S)	Averaged	0.22529	0.23498	0.1000	4.3007	20.0000
Toluene-d8 (S)	Averaged	1.71774	1.65795	0.1000	-3.4808	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

9565085CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 23:46

Instrument ID: 50MV3B GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: B041116.B\D02LCSW-CCV.D Init. Calib. Time(s): 15:53 19:37

SDG No.: 50141666

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.06840	0.05566	0.0100	-18.6234	20.0000
Benzene	Averaged	1.03829	0.97555	0.5000	-6.0423	20.0000
Bromodichloromethane	Averaged	0.27219	0.25486	0.2000	-6.3687	20.0000
Bromoform	Averaged	0.30659	0.33601	0.1000	9.5950	20.0000
Bromomethane	Averaged	0.23575	0.17999	0.1000	-23.6552	20.0000
2-Butanone (MEK)	Averaged	0.08960	0.08411	0.0100	-6.1313	20.0000
Carbon disulfide	Averaged	0.36666	0.33228	0.1000	-9.3764	20.0000
Carbon tetrachloride	Averaged	0.31947	0.33263	0.1000	4.1195	20.0000
Chlorobenzene	Averaged	1.03033	0.95143	0.5000	-7.6581	20.0000
Chloroethane	Averaged	0.29406	0.21466	0.1000	-27.0016	20.0000
Chloroform	Averaged	0.43897	0.41824	0.2000	-4.7222	20.0000
Chloromethane	Averaged	0.56764	0.40378	0.1000	-28.8656	20.0000
Cyclohexane	Averaged	0.50735	0.46648	0.1000	-8.0553	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.06435	0.06300	0.0500	-2.1063	20.0000
Dibromochloromethane	Averaged	0.26865	0.30257	0.1000	12.6274	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.25279	0.24869	0.1000	-1.6236	20.0000
1,2-Dichlorobenzene	Averaged	1.51889	1.33944	0.4000	-11.8145	20.0000
1,3-Dichlorobenzene	Averaged	1.67954	1.54134	0.6000	-8.2287	20.0000
1,4-Dichlorobenzene	Averaged	1.66111	1.50594	0.5000	-9.3413	20.0000
Dichlorodifluoromethane	Averaged	0.36843	0.29754	0.1000	-19.2427	20.0000
1,1-Dichloroethane	Averaged	0.49840	0.45444	0.2000	-8.8202	20.0000
1,2-Dichloroethane	Averaged	0.28759	0.28036	0.1000	-2.5129	20.0000
1,1-Dichloroethene	Averaged	0.30512	0.26929	0.1000	-11.7453	20.0000
cis-1,2-Dichloroethene	Averaged	0.26979	0.26883	0.1000	-0.3566	20.0000
trans-1,2-Dichloroethene	Averaged	0.27212	0.25380	0.1000	-6.7345	20.0000
1,2-Dichloropropane	Averaged	0.24026	0.22500	0.1000	-6.3531	20.0000
cis-1,3-Dichloropropene	Averaged	0.55931	0.54329	0.2000	-2.8638	20.0000
trans-1,3-Dichloropropene	Averaged	0.40196	0.39892	0.1000	-0.7576	20.0000
Ethylbenzene	Averaged	0.60008	0.57276	0.1000	-4.5523	20.0000
2-Hexanone	Averaged	0.18277	0.19188	0.0500	4.9864	20.0000
Isopropylbenzene (Cumene)	Averaged	1.75873	1.70552	0.1000	-3.0258	20.0000
Methyl acetate	Averaged	0.15404	0.14233	0.1000	-7.6048	20.0000
Methylcyclohexane	Averaged	0.37537	0.36778	0.1000	-2.0233	20.0000
Methylene Chloride	Averaged	0.27103	0.23260	0.1000	-14.1793	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.28333	0.30191	0.0500	6.5566	20.0000
Methyl-tert-butyl ether	Averaged	0.54918	0.51625	0.1000	-5.9957	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

9565085CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 04/11/2016 Time: 23:46

Instrument ID: 50MV3B GC Column: Col 1 Init. Calib. Date(s): 03/25/2016 03/25/2016

Lab File ID: B041116.B\D02LCSW-CCV.D Init. Calib. Time(s): 15:53 19:37

SDG No.: 50141666

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.10219	1.02444	0.3000	-7.0541	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.74413	0.62617	0.3000	-15.8524	20.0000
Tetrachloroethene	Averaged	0.43054	0.43912	0.2000	1.9934	20.0000
Toluene	Averaged	2.10434	1.85795	0.4000	-11.7083	20.0000
1,2,4-Trichlorobenzene	Averaged	0.87558	0.70266	0.2000	-19.7492	20.0000
1,1,1-Trichloroethane	Averaged	0.38306	0.38527	0.1000	0.5776	20.0000
1,1,2-Trichloroethane	Averaged	0.23840	0.21821	0.1000	-8.4679	20.0000
Trichloroethene	Averaged	0.24982	0.24749	0.2000	-0.9307	20.0000
Trichlorofluoromethane	Averaged	0.56047	0.52805	0.1000	-5.7833	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.35958	0.33758	0.1000	-6.1178	20.0000
Vinyl chloride	Averaged	0.48776	0.40747	0.1000	-16.4620	20.0000
m&p-Xylene	Averaged	0.72655	0.69684	0.1000	-4.0888	20.0000
o-Xylene	Averaged	0.65818	0.63063	0.3000	-4.1861	20.0000
4-Bromofluorobenzene (S)	Averaged	0.43926	0.39390	0.1000	-10.3265	20.0000
Dibromofluoromethane (S)	Averaged	0.22894	0.22294	0.1000	-2.6201	20.0000
Toluene-d8 (S)	Averaged	1.61569	1.59435	0.1000	-1.3207	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d
Lab Smp Id: 8260-ICV,117894:0
Inj Date : 25-MAR-2016 20:26
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 8260-icv,117894:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a032516cal.b\-a8260_a_c.m
Meth Date : 28-Mar-2016 13:37 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 27 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
1	Dichlorodifluoromethane	85	0.907	0.905	(0.218)	161346	45.4253	45.4	
2	Chloromethane	50	0.993	0.996	(0.238)	189155	39.0726	39.1	
3	Vinyl Chloride	62	1.035	1.039	(0.249)	220504	46.1366	46.1	
4	Bromomethane	94	1.185	1.183	(0.285)	112493	47.2086	47.2	
5	Chloroethane	64	1.228	1.226	(0.295)	125048	45.8669	45.9	
6	Trichlorofluoromethane	101	1.345	1.343	(0.323)	281063	47.0224	47.0	
7	Diethyl ether	74	1.468	1.466	(0.352)	93931	48.4116	48.4	
8	1,2-dichlorotrifluoroethane	67	1.484	1.482	(0.356)	209774	46.6507	46.6	
9	Acrolein	56	1.537	1.536	(0.369)	426923	1011.88	1010	
10	1,1,2trichlorotrifluoroethane	101	1.591	1.589	(0.382)	188289	47.7351	47.7	
11	1,1-Dichloroethene	96	1.596	1.594	(0.383)	159026	47.1161	47.1	
12	Acetone	43	1.607	1.605	(0.386)	151433	212.938	213	
13	Iodomethane	142	1.682	1.680	(0.404)	382269	106.630	107	
14	Carbon Disulfide	76	1.730	1.728	(0.415)	467177	41.7921	41.8	
15	Methyl Acetate	43	1.772	1.776	(0.426)	95855	50.3343	50.3	
16	allyl chloride	41	1.788	1.787	(0.429)	664075	100.432	100	
17	Acetonitrile	39	1.788	1.787	(0.429)	451950	49.4537	49.4	
18	Methylene Chloride	84	1.863	1.867	(0.447)	126960	44.1339	44.1	
19	Acrylonitrile	53	1.997	2.000	(0.479)	125593	185.111	185	
20	Methyl-tert-butyl ether	73	2.023	2.027	(0.486)	328025	49.5739	49.6	
21	tert-Butyl Alcohol	59	1.901	1.910	(0.456)	14740	97.1994	97.2(Q)	
22	1,2-Dichloroethene (trans)	96	2.039	2.038	(0.490)	143855	46.3669	46.4	
23	n-Hexane	57	2.221	2.219	(0.533)	275246	41.5332	41.5	

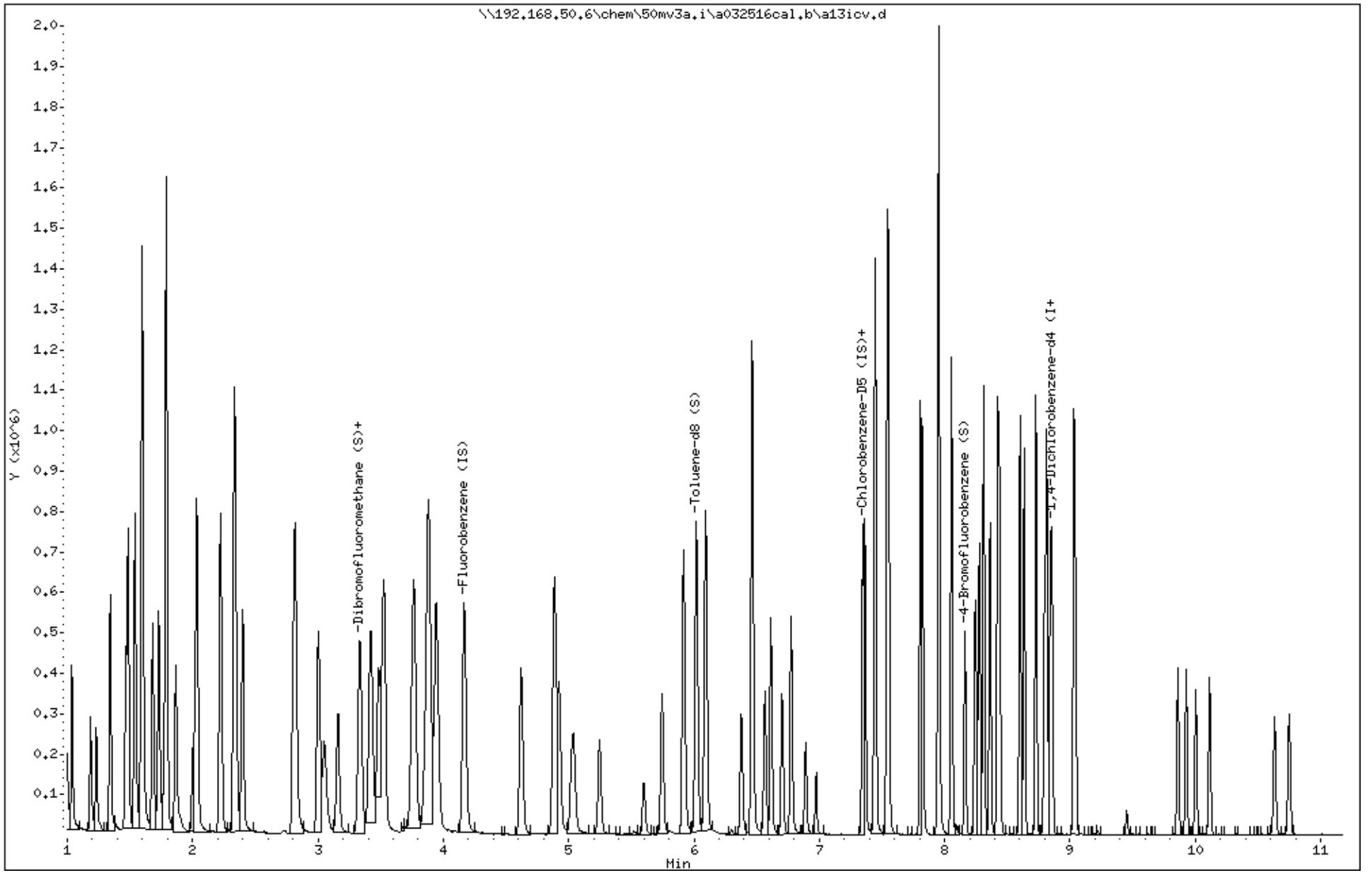
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	24 Vinyl Acetate	43	2.328	2.331	(0.559)	1074236	216.982	217	
	25 1,1-Dichloroethane	63	2.338	2.342	(0.561)	258908	46.6184	46.6	
	26 Chloroprene	53	2.397	2.396	(0.576)	266209	52.0523	52.0	
	27 2-Butanone	43	2.798	2.796	(0.672)	241506	227.944	228	
	28 1,2-Dichloroethene (cis)	96	2.819	2.818	(0.677)	153564	49.8361	49.8	
	29 2,2-Dichloropropane	77	2.819	2.823	(0.677)	177058	51.6978	51.7	
	30 Propionitrile	54	2.857	2.866	(0.686)	10564	44.6560	44.6(Q)	
	31 Methacrylonitrile	41	3.001	3.004	(0.720)	282554	193.881	194	
	32 Bromochloromethane	49	3.049	3.053	(0.732)	104213	47.2253	47.2	
	33 Tetrahydrofuran	42	3.070	3.069	(0.737)	25065	37.9738	38.0	
	34 Chloroform	83	3.161	3.159	(0.759)	234361	47.8307	47.8	
$	35 Dibromofluoromethane (S)	113	3.332	3.336	(0.800)	123899	48.8947	48.9	
	36 1,1,1-Trichloroethane	97	3.332	3.330	(0.800)	210097	49.6186	49.6	
	37 Cyclohexane	56	3.417	3.421	(0.820)	266450	45.9066	45.9	
	38 n-Butyl chloride	56	3.481	3.485	(0.836)	323703	49.3706	49.4	
	39 Carbon Tetrachloride	117	3.519	3.517	(0.845)	175446	49.2719	49.3	
	40 1,1-Dichloropropene	75	3.524	3.523	(0.846)	203629	49.1290	49.1	
	41 Benzene	78	3.765	3.768	(0.904)	562622	48.2536	48.2	
	42 1,2-Dichloroethane	62	3.855	3.854	(0.926)	156902	49.1353	49.1	
	43 2,2,4-Trimethylpentane	57	3.946	3.944	(0.947)	661535	51.1756	51.2	
	44 Isobutyl alcohol	43	3.882	3.950	(0.932)	1207169	446.504	446(Q)	
*	45 Fluorobenzene (IS)	96	4.165	4.169	(1.000)	562395	50.0000		
	46 Trichloroethene	95	4.619	4.617	(1.109)	138188	48.4779	48.5	
	47 Methylcyclohexane	55	4.886	4.885	(1.173)	208168	49.7871	49.8	
	48 1,2-Dichloropropane	63	4.924	4.922	(1.182)	128692	48.3160	48.3	
	49 Dibromomethane	93	5.020	5.018	(1.205)	58128	47.9476	47.9	
	50 1,4-Dioxane	88	5.030	5.029	(1.208)	14447	870.994	871	
	51 Methyl methacrylate	69	5.041	5.039	(1.210)	64382	54.0989	54.1	
	52 Bromodichloromethane	83	5.244	5.248	(1.259)	145697	46.8099	46.8	
	53 2-Chloroethyl vinyl ether	63	5.597	5.600	(0.762)	50153	53.3634	53.4	
	54 cis-1,3-Dichloropropene	75	5.741	5.744	(0.782)	173234	51.3050	51.3	
	55 4-Methyl-2-Pentanone	43	5.917	5.921	(0.806)	463439	260.759	261	
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	460477	48.7563	48.8	
	57 Toluene	91	6.093	6.092	(0.830)	542606	44.8154	44.8	
	58 trans-1,3-Dichloropropene	75	6.376	6.380	(0.868)	125255	52.3329	52.3	
	59 Ethyl Methacrylate	69	6.462	6.465	(0.880)	479577	231.141	231	
	60 1,1,2-Trichloroethane	83	6.563	6.562	(0.894)	68780	48.0539	48.0	
	61 Tetrachloroethene	166	6.617	6.615	(0.901)	113842	47.3296	47.3	
	62 1,3-Dichloropropane	76	6.702	6.706	(0.913)	149264	49.6105	49.6	
	63 2-Hexanone	43	6.777	6.775	(0.923)	284148	263.265	263	
	64 Dibromochloromethane	129	6.889	6.887	(0.938)	83109	51.0174	51.0	
	65 1,2-Dibromoethane	107	6.975	6.973	(0.950)	71796	51.1125	51.1	
*	66 Chlorobenzene-D5 (IS)	117	7.343	7.341	(1.000)	274910	50.0000		
	67 Chlorobenzene	112	7.364	7.368	(1.003)	267333	47.7999	47.8	
	68 1,1,1,2-Tetrachloroethane	131	7.445	7.443	(1.014)	86924	50.8607	50.9	
	69 Ethylbenzene	106	7.450	7.448	(1.015)	157490	49.6995	49.7	
	70 m&p-Xylene	106	7.546	7.544	(1.028)	385193	99.7024	99.7	
	71 o-Xylene	106	7.808	7.806	(1.063)	177878	51.9696	52.0	
	72 Styrene	104	7.824	7.827	(1.065)	290290	51.9603	52.0	
	73 Bromoform	173	7.941	7.940	(0.898)	33659	51.2070	51.2	
	74 Isopropylbenzene	105	8.053	8.052	(1.097)	476924	53.7389	53.7	
$	75 4-Bromofluorobenzene (S)	95	8.166	8.164	(1.112)	111807	49.2228	49.2	
	76 Bromobenzene	77	8.240	8.244	(1.122)	153418	47.1039	47.1	
	77 1,1,2,2-Tetrachloroethane	83	8.256	8.255	(0.934)	78701	51.5701	51.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.272	8.276	(1.127)	82149	199.269	199(Q)	
79	1,2,3-Trichloropropane	110	8.283	8.287	(0.937)	22766	54.0553	54.0(Q)	
80	n-Propylbenzene	91	8.310	8.308	(0.940)	556508	54.0176	54.0	
81	2-Chlorotoluene	91	8.363	8.362	(0.946)	288096	51.1477	51.1	
82	1,3,5-Trimethylbenzene	105	8.422	8.420	(0.953)	327112	51.5614	51.6	
83	4-Chlorotoluene	126	8.438	8.436	(0.955)	93378	51.0052	51.0	
84	tert-Butylbenzene	119	8.604	8.602	(0.973)	298281	42.9741	43.0	
85	1,2,4-Trimethylbenzene	105	8.636	8.634	(0.977)	316486	50.8275	50.8	
86	sec-Butylbenzene	105	8.726	8.725	(0.987)	459023	55.1844	55.2	
87	1,3-Dichlorobenzene	146	8.796	8.794	(0.995)	153497	49.1249	49.1	
88	p-Isopropyltoluene	119	8.812	8.816	(0.997)	333887	49.4347	49.4	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	95681	50.0000		
90	1,4-Dichlorobenzene	146	8.855	8.853	(1.002)	151635	47.0451	47.0	
91	n-Butylbenzene	91	9.031	9.029	(1.022)	336210	50.9746	51.0	
92	1,2-Dichlorobenzene	146	9.047	9.045	(1.024)	133965	47.8491	47.8	
93	1,2,4-Trichlorobenzene	180	9.859	9.862	(1.115)	80724	47.0242	47.0	
94	1,2-Dibromo-3-chloropropane	155	9.453	9.456	(1.069)	6726	53.5960	53.6	
95	Hexachlorobutadiene	225	9.928	9.926	(1.123)	44390	44.7771	44.8	
96	Naphthalene	128	10.003	10.001	(1.132)	196499	53.2282	53.2	
97	1,2,3-Trichlorobenzene	180	10.115	10.113	(1.144)	76761	47.7956	47.8	
98	2,methyl-naphthalene	142	10.633	10.632	(1.203)	110602	46.2105	46.2	
99	1-Methylnaphthalene	142	10.745	10.749	(1.216)	118298	56.5151	56.5	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d
Date : 25-MAR-2016 20:26
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-ICV,117894:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 5

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

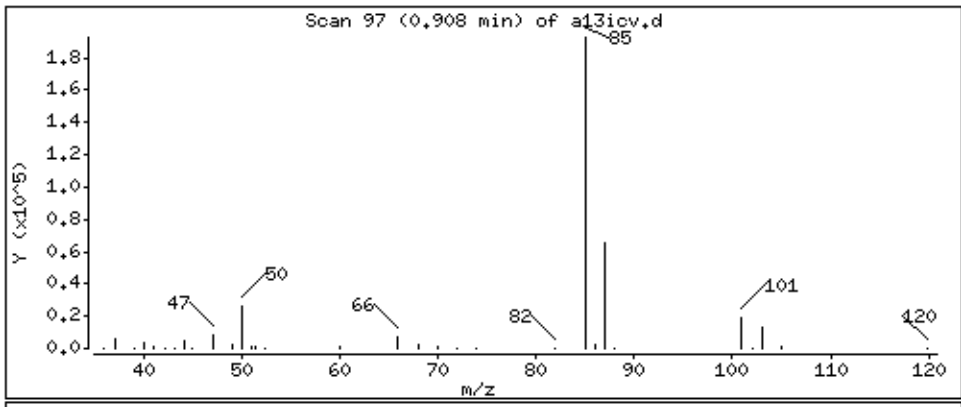
Column phase: DB-624

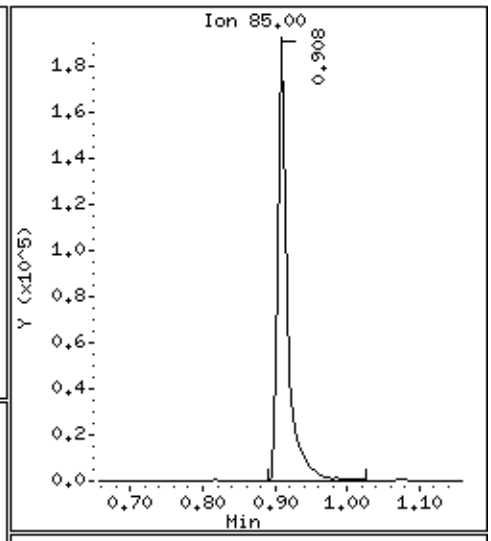
Column diameter: 0.18

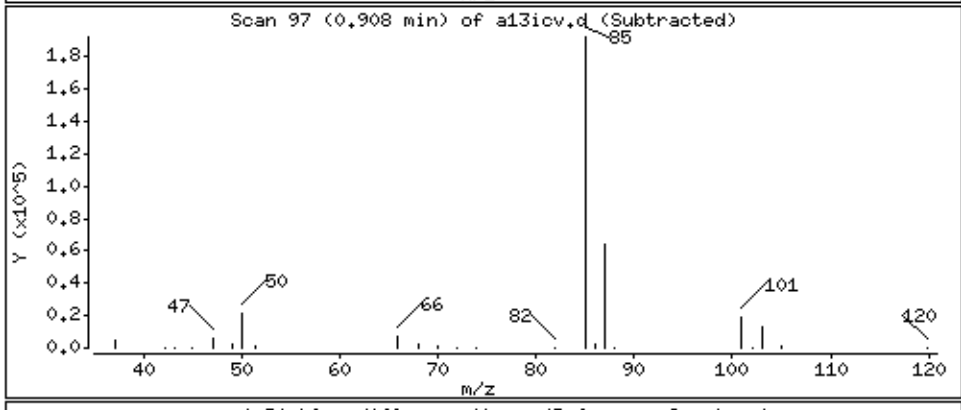
1 Dichlorodifluoromethane

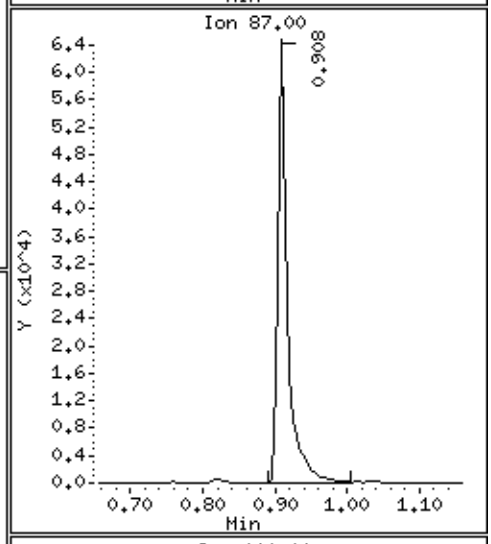
Concentration: 45.4 ppb

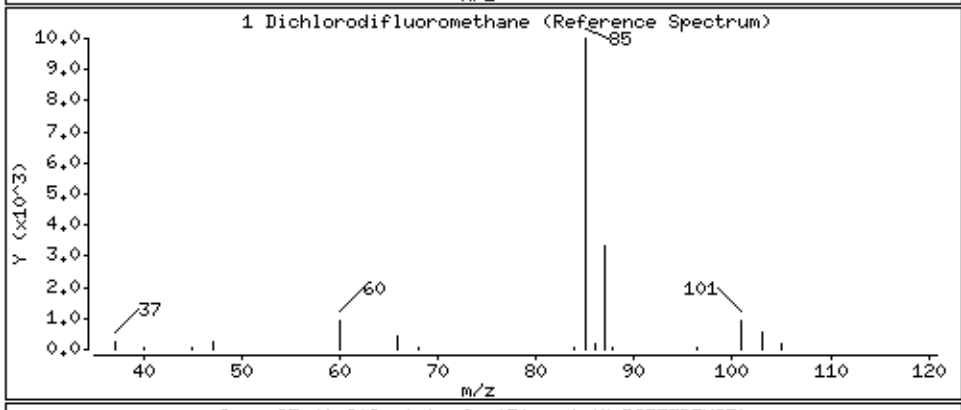
Review Code:

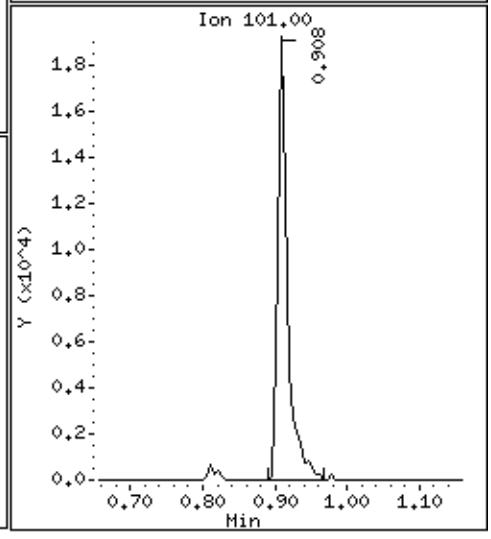


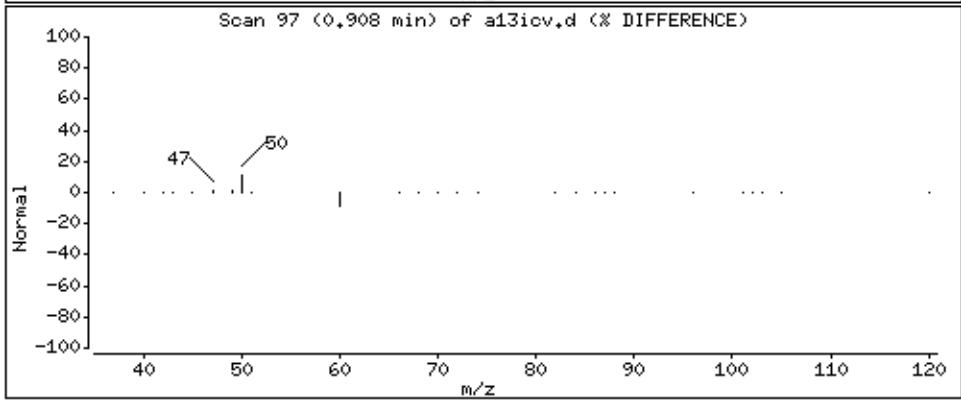












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

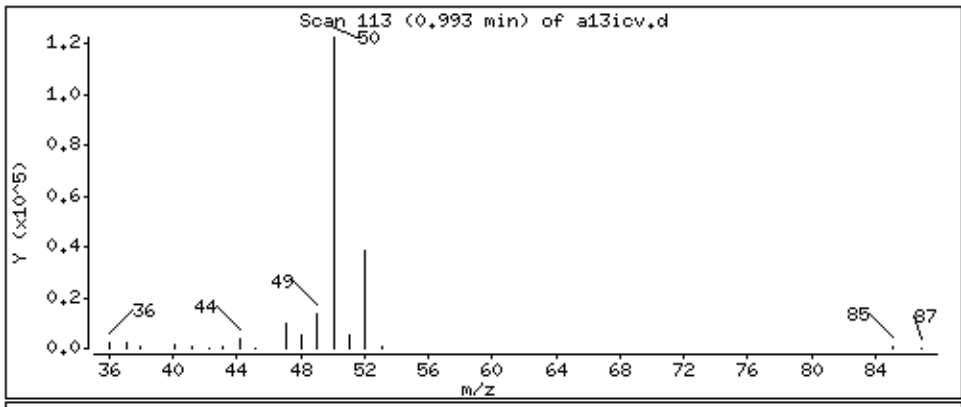
Column phase: DB-624

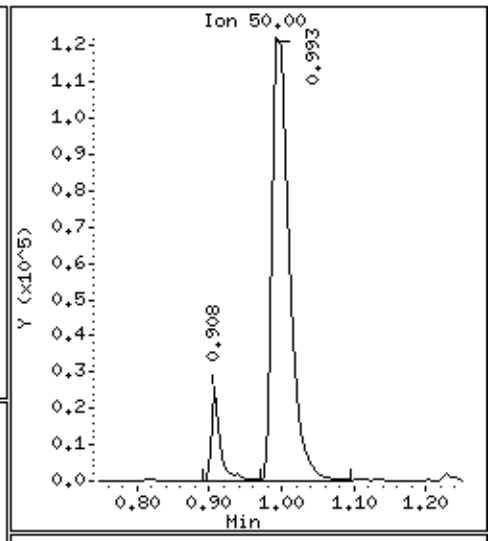
Column diameter: 0.18

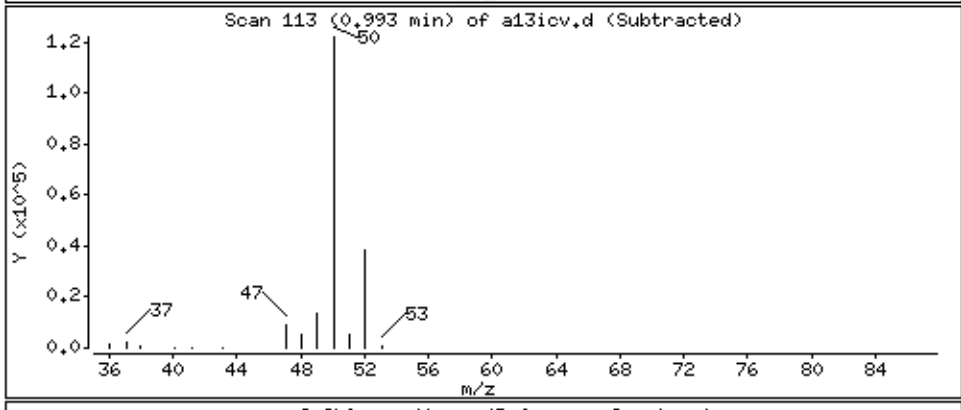
2 Chloromethane

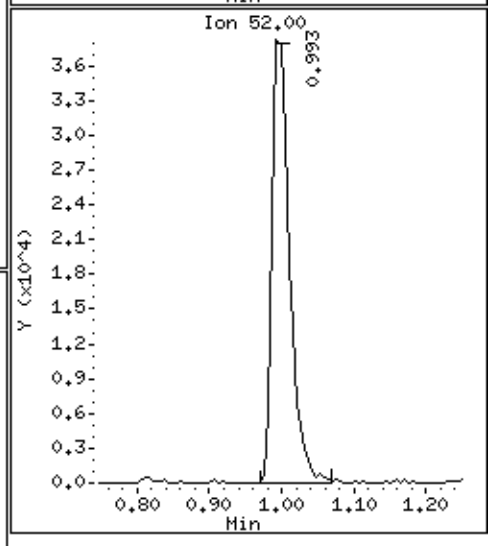
Concentration: 39.1 ppb

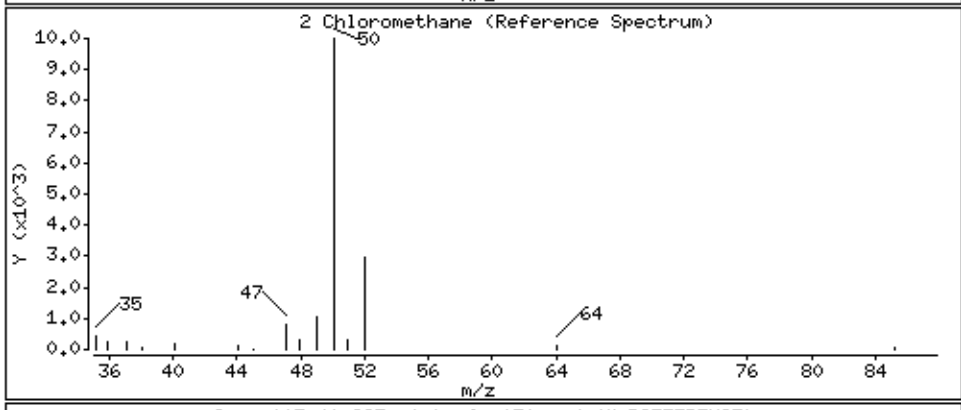
Review Code:

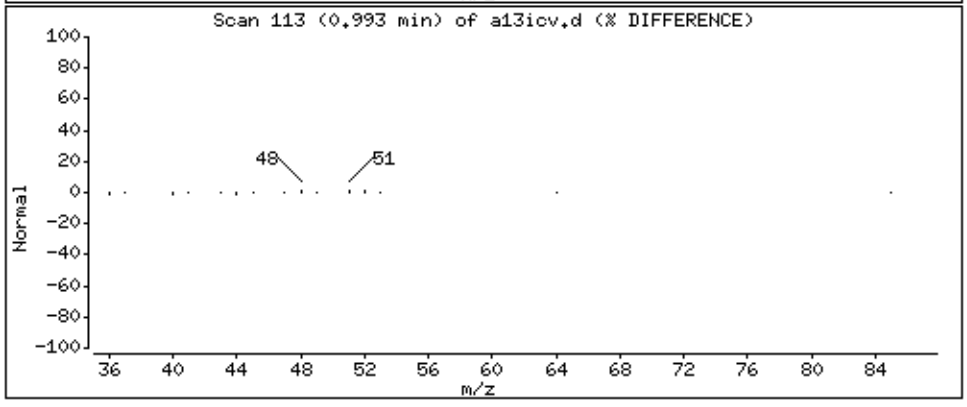












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

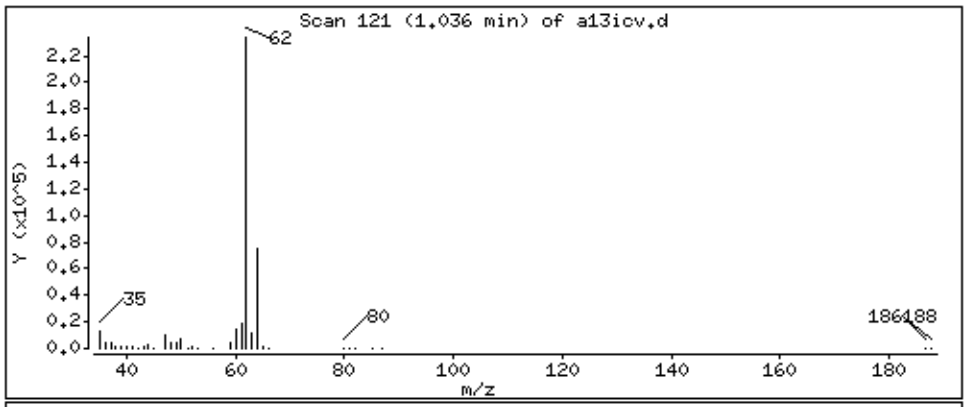
Column phase: DB-624

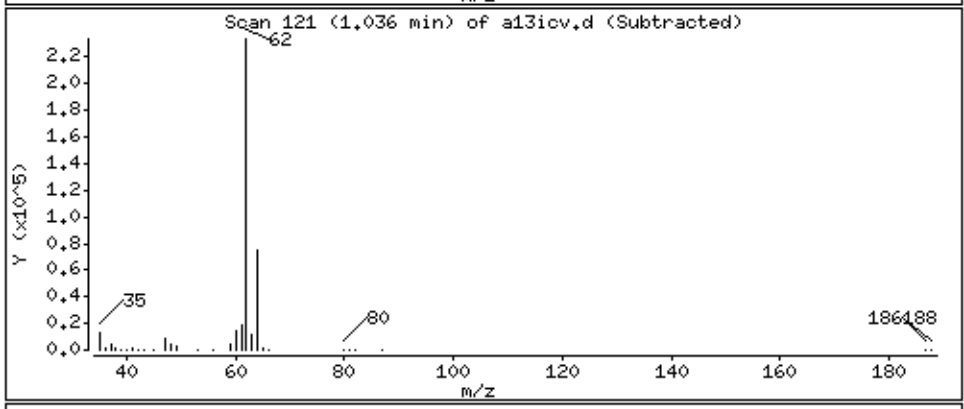
Column diameter: 0.18

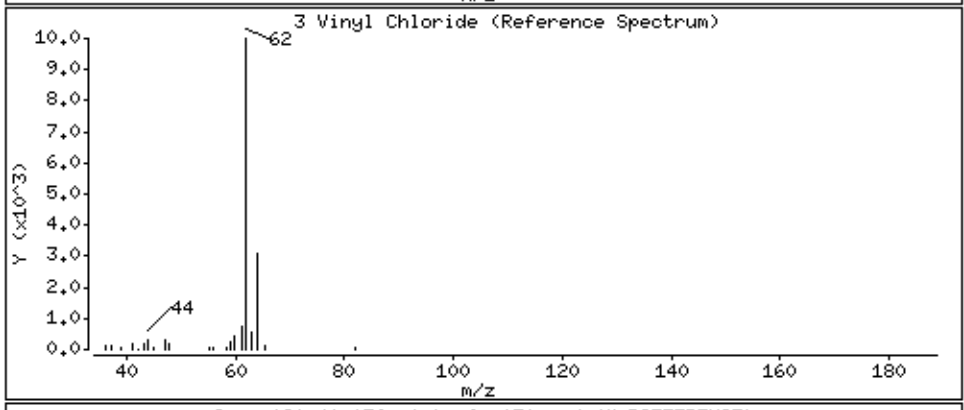
3 Vinyl Chloride

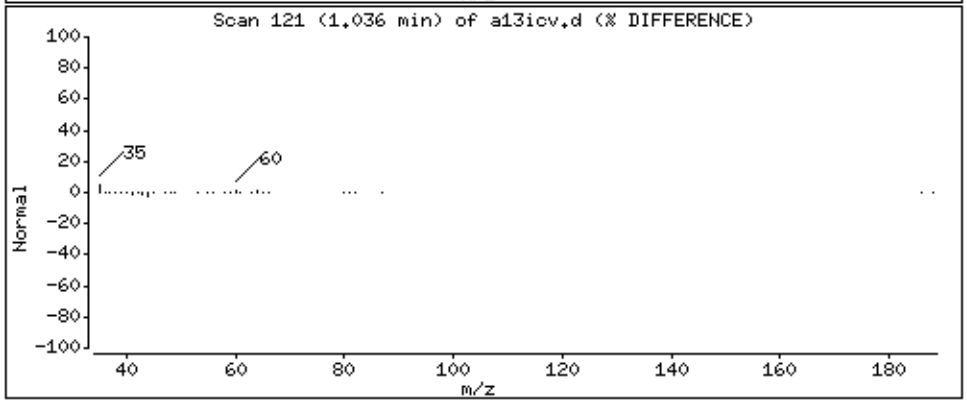
Concentration: 46.1 ppb

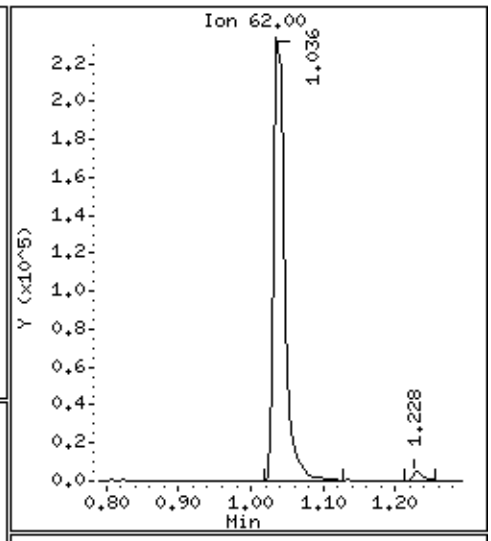
Review Code:

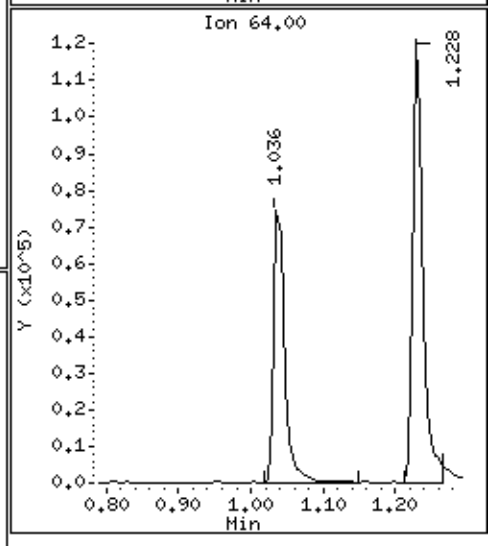












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

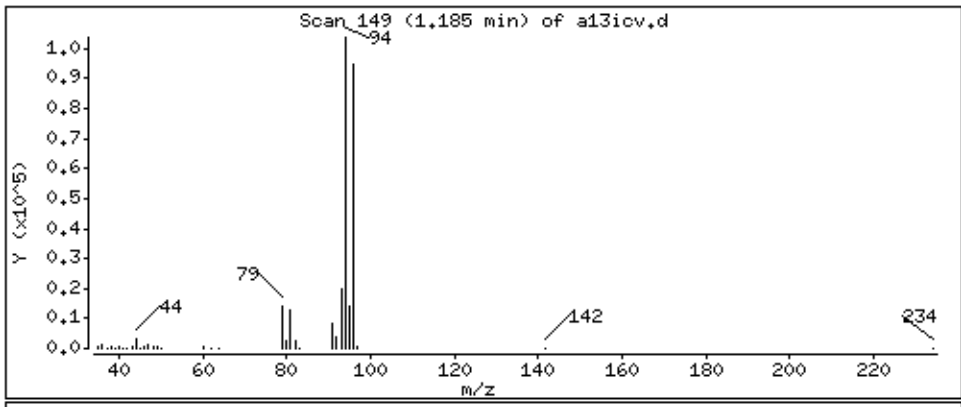
Column phase: DB-624

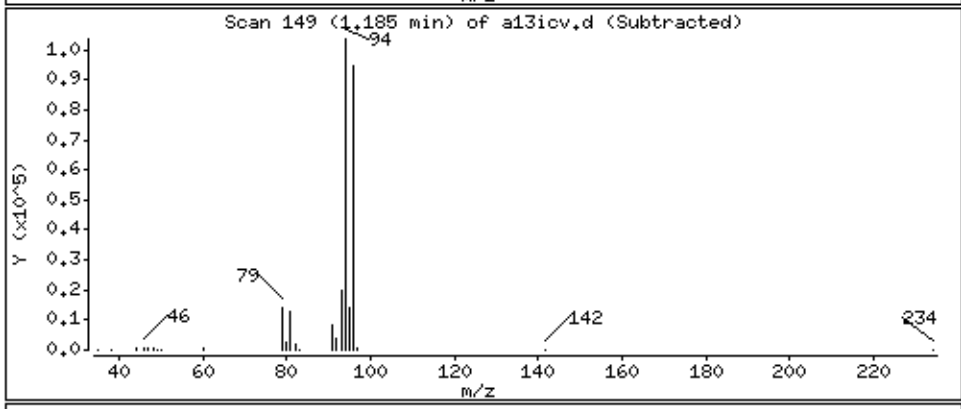
Column diameter: 0.18

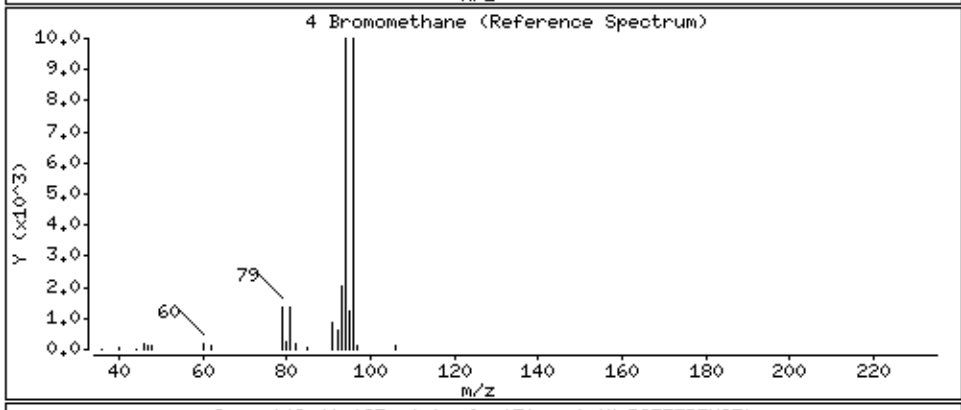
4 Bromomethane

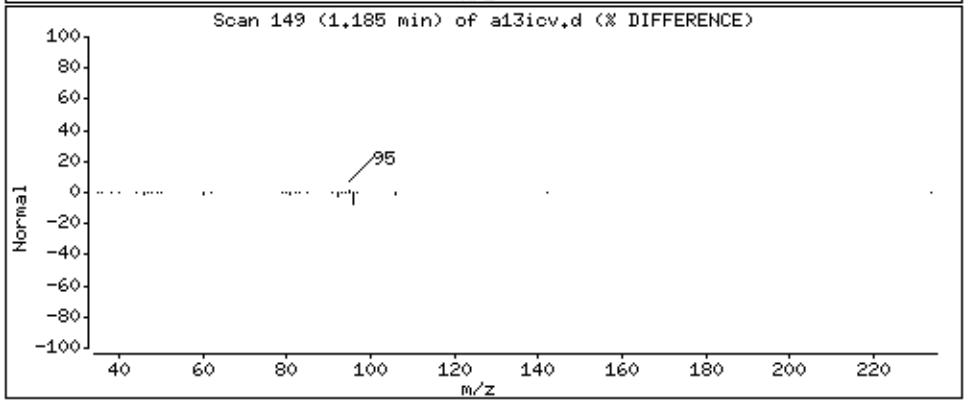
Concentration: 47.2 ppb

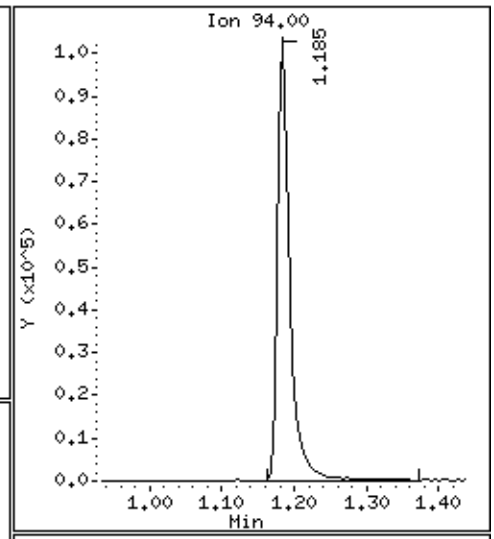
Review Code:

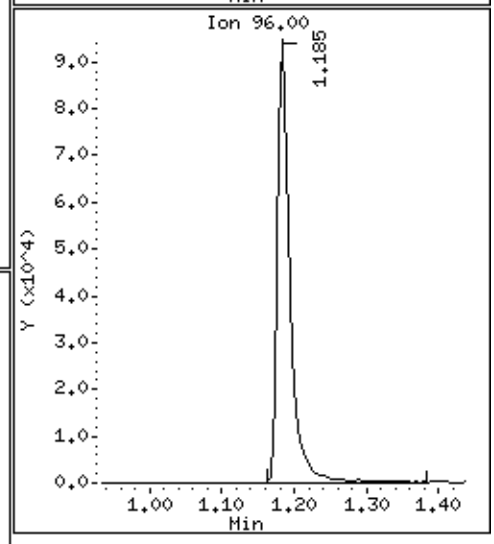












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

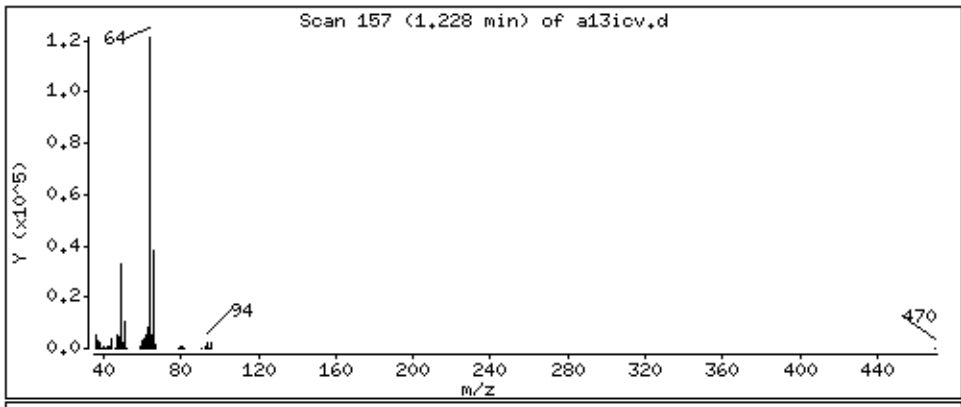
Column phase: DB-624

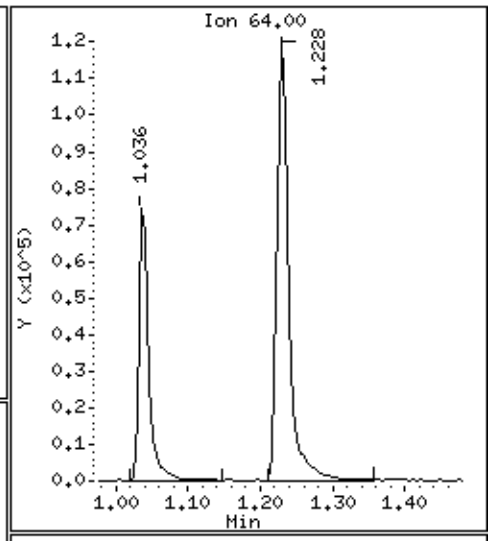
Column diameter: 0.18

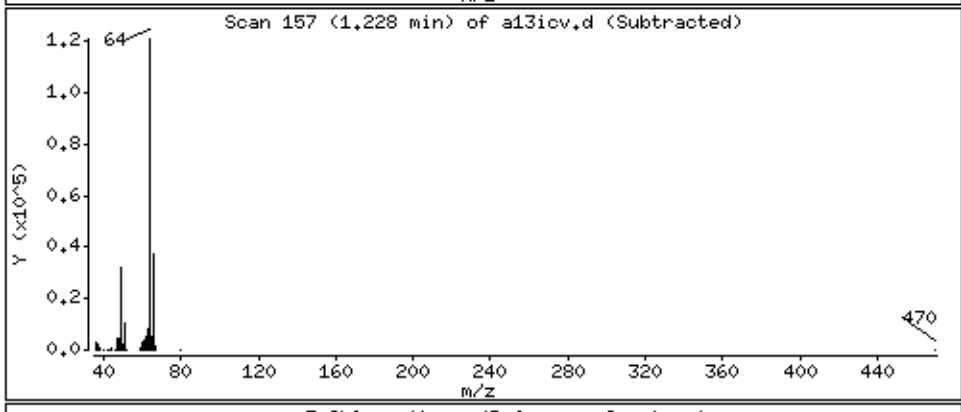
5 Chloroethane

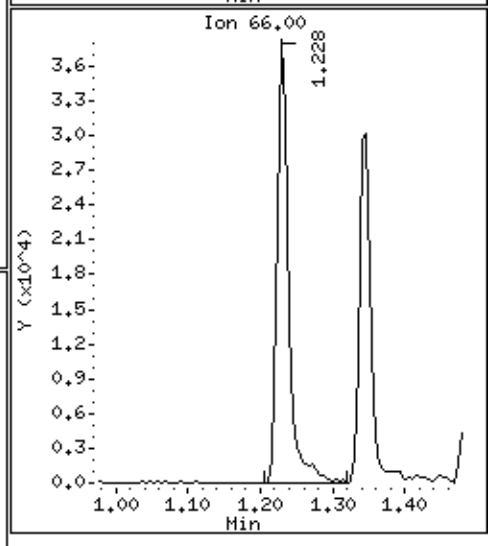
Concentration: 45.9 ppb

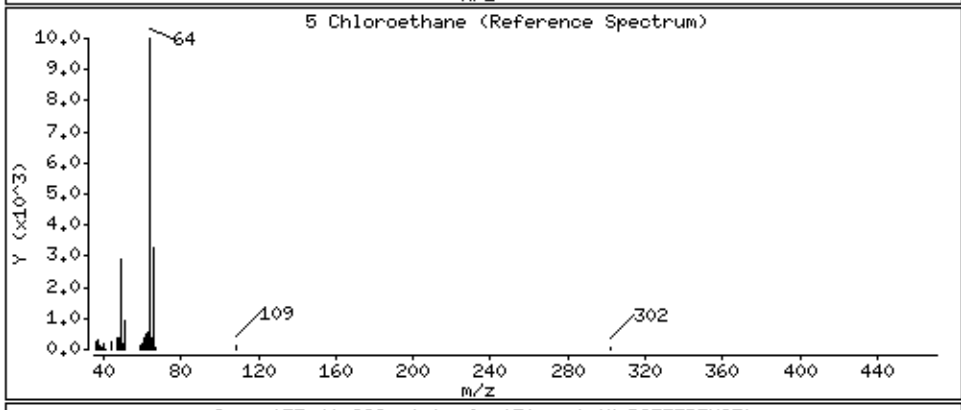
Review Code:

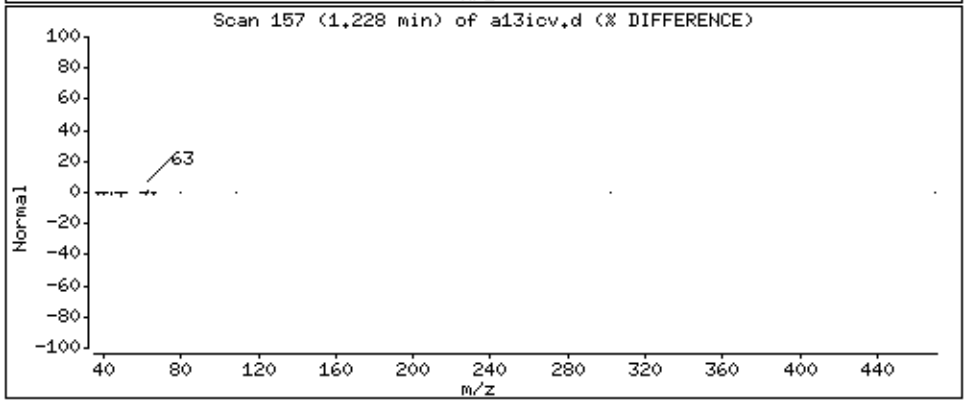












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

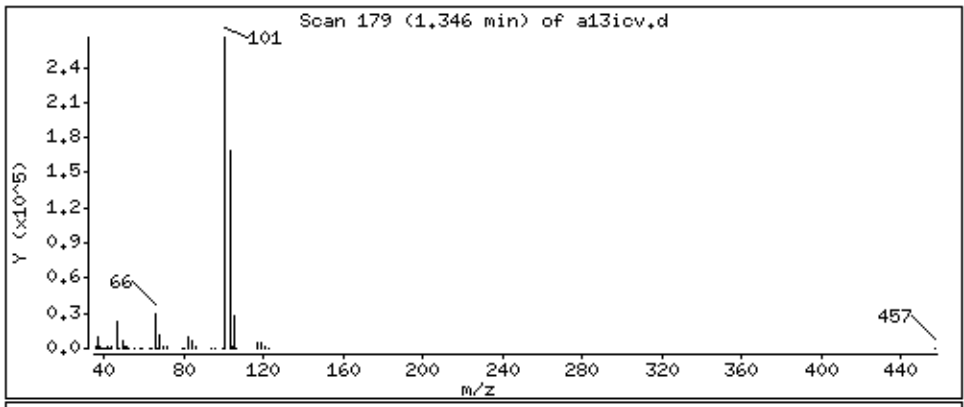
Column phase: DB-624

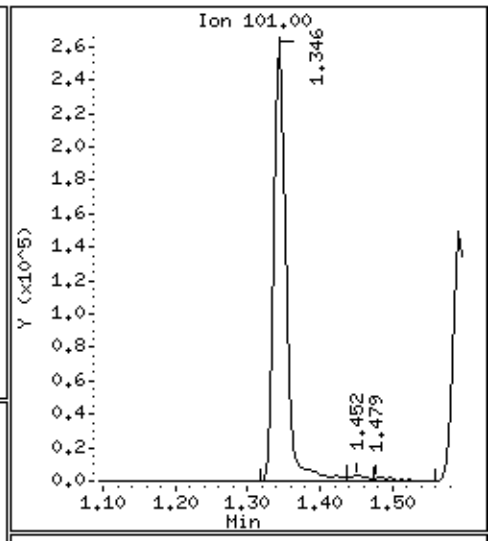
Column diameter: 0.18

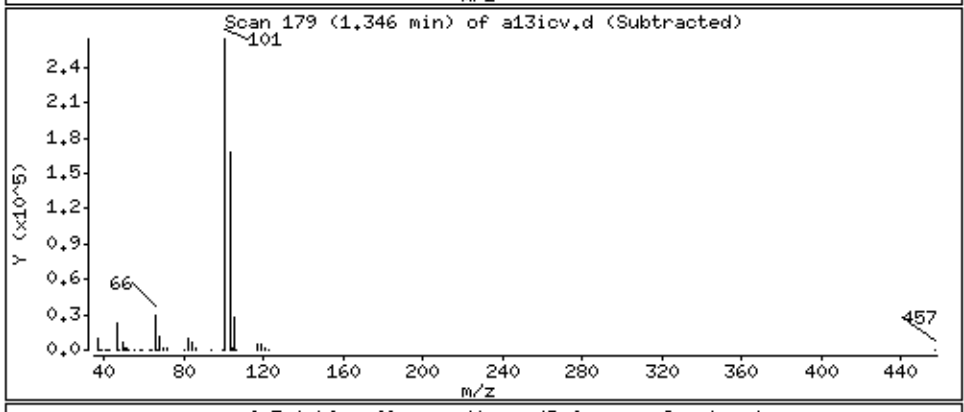
6 Trichlorofluoromethane

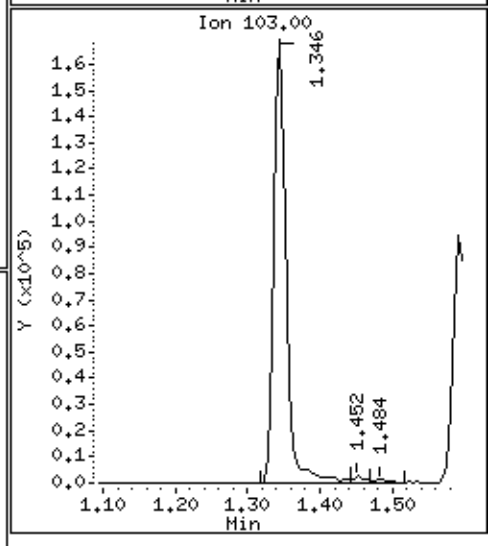
Concentration: 47.0 ppb

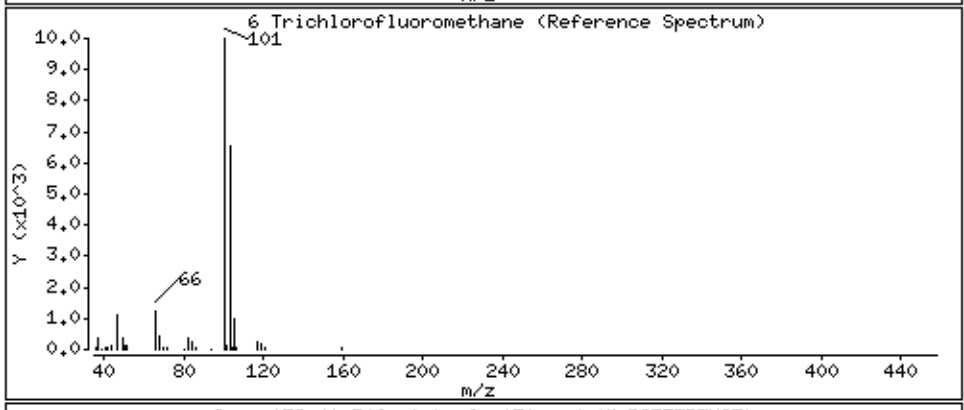
Review Code:

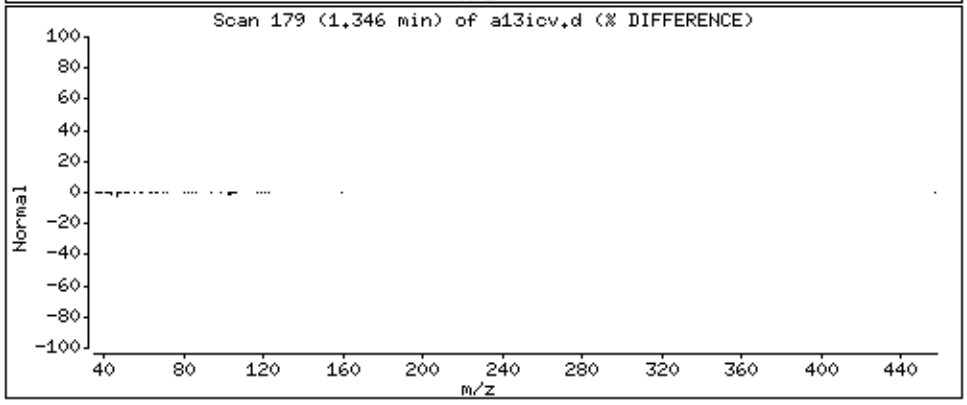












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 11

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

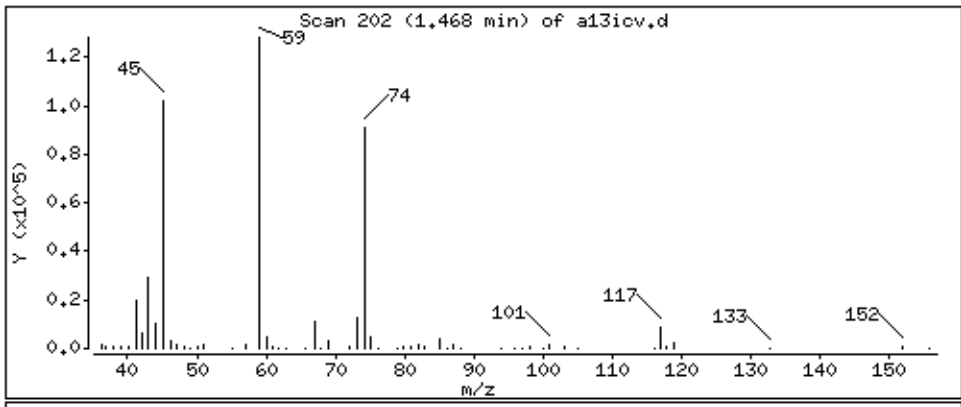
Column phase: DB-624

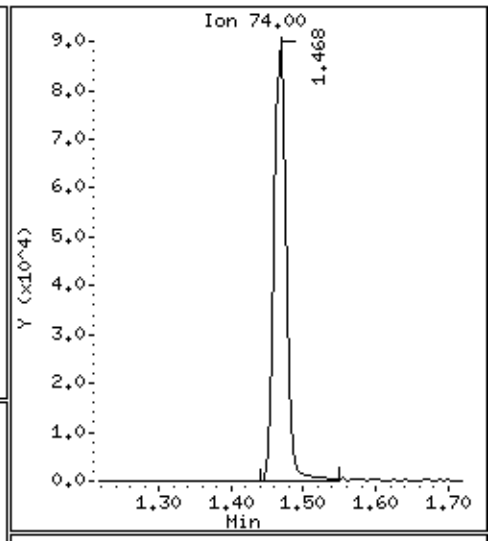
Column diameter: 0.18

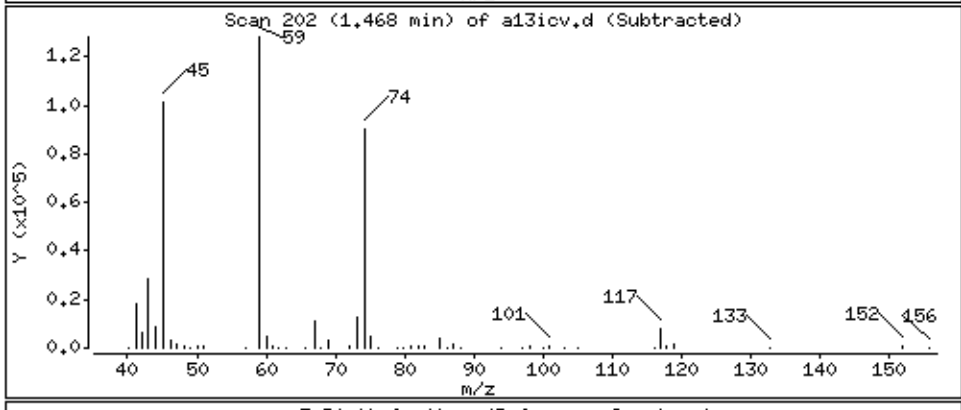
7 Diethyl ether

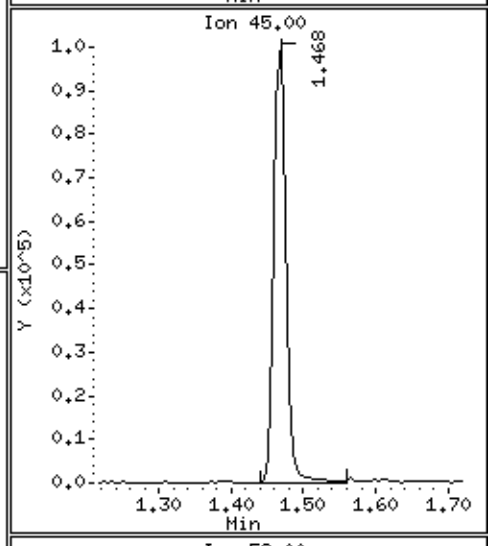
Concentration: 48.4 ppb

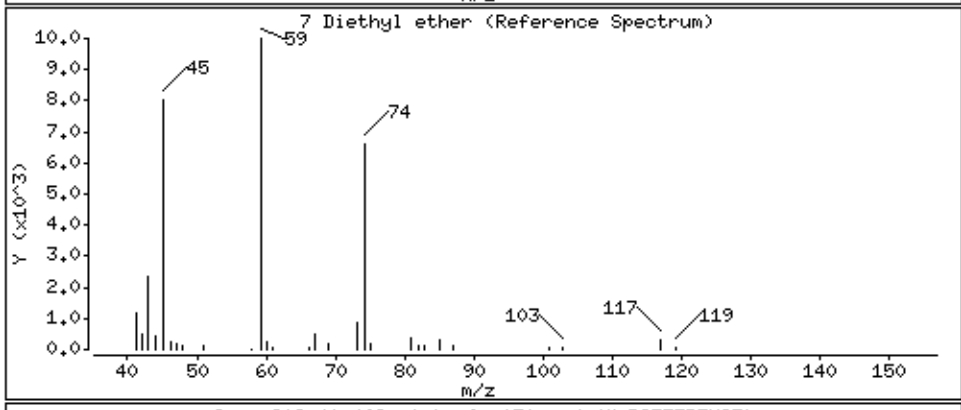
Review Code:

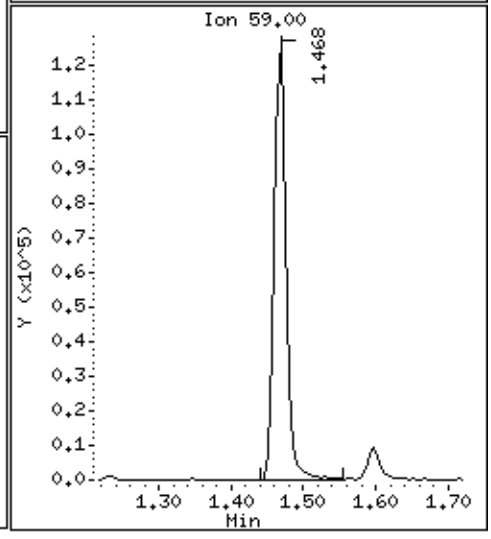


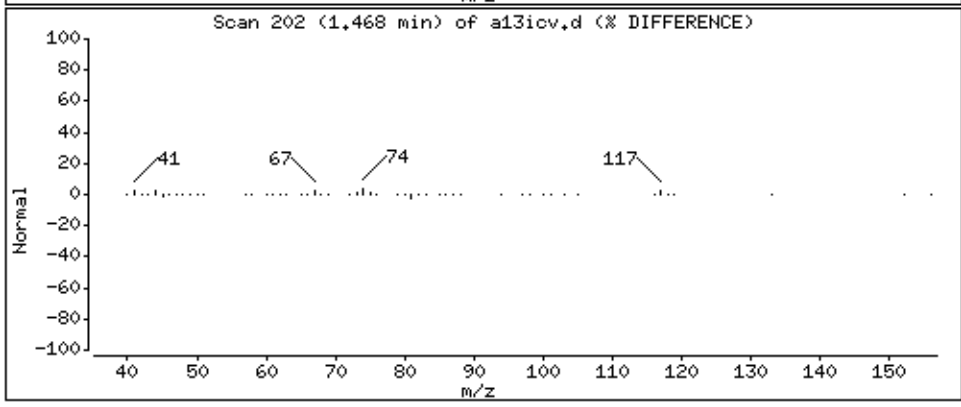












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

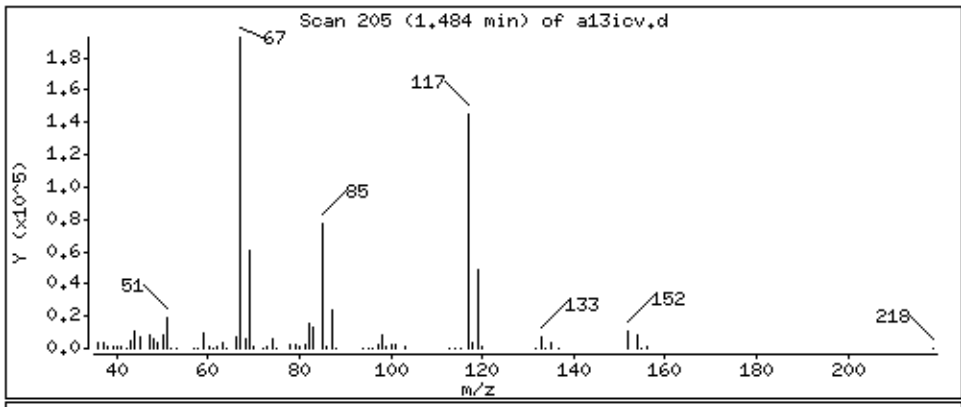
Column phase: DB-624

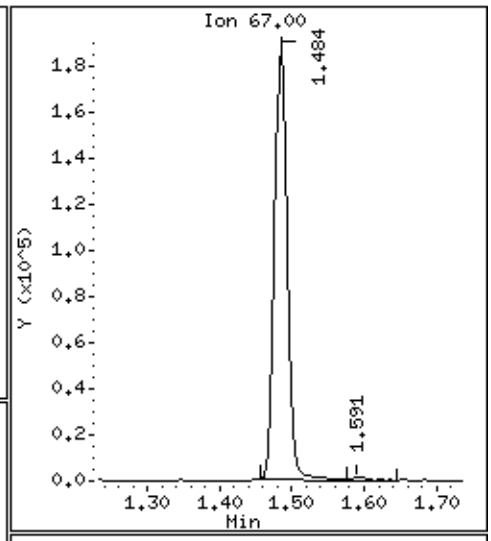
Column diameter: 0.18

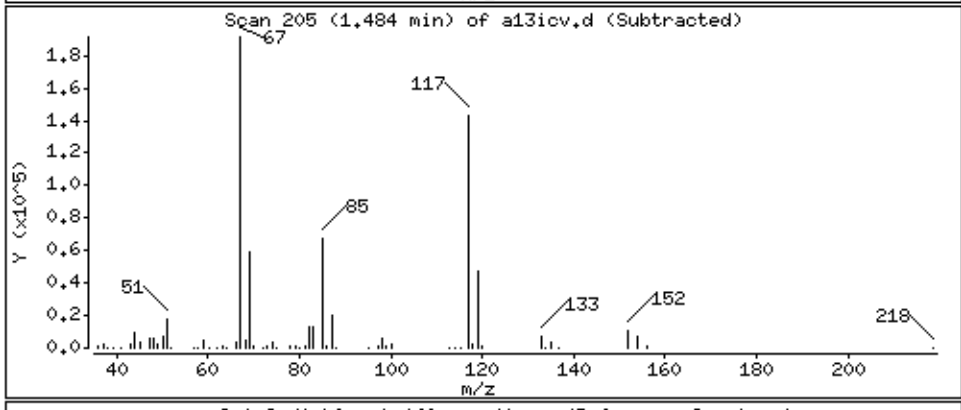
8 1,2-dichlorotrifluoroethane

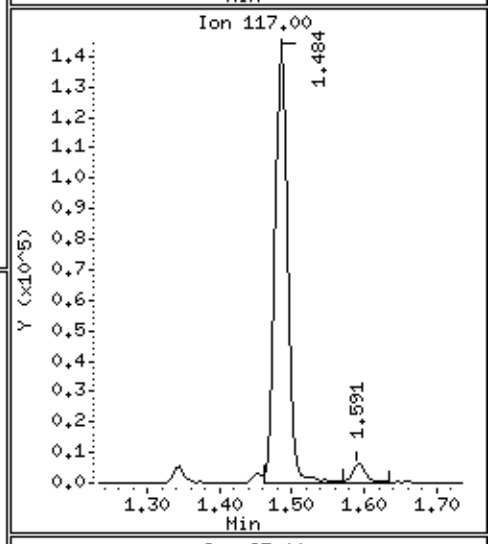
Concentration: 46.6 ppb

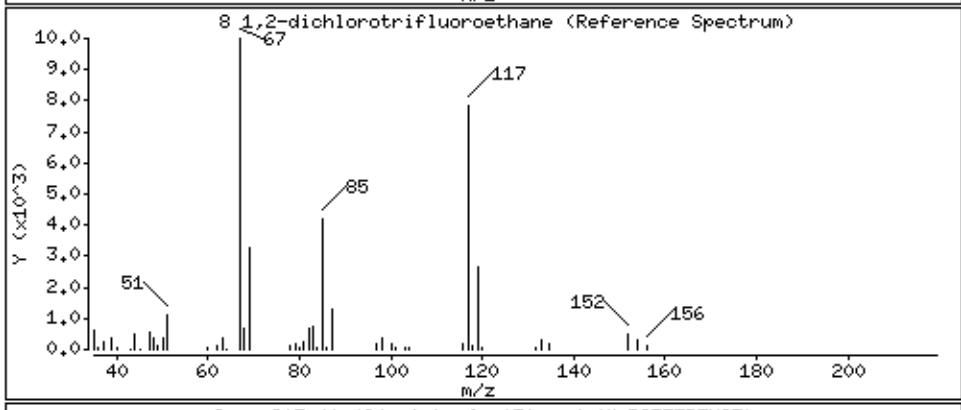
Review Code:

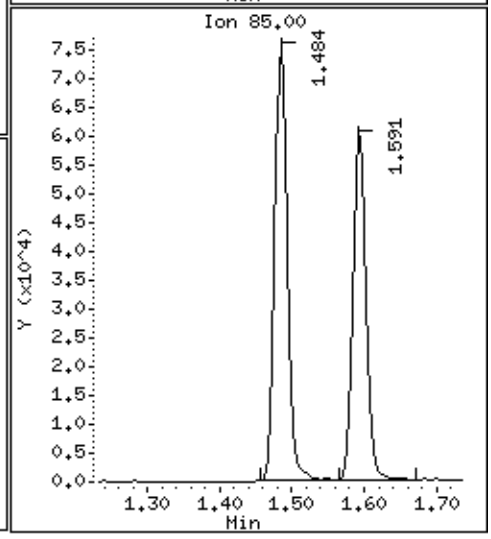


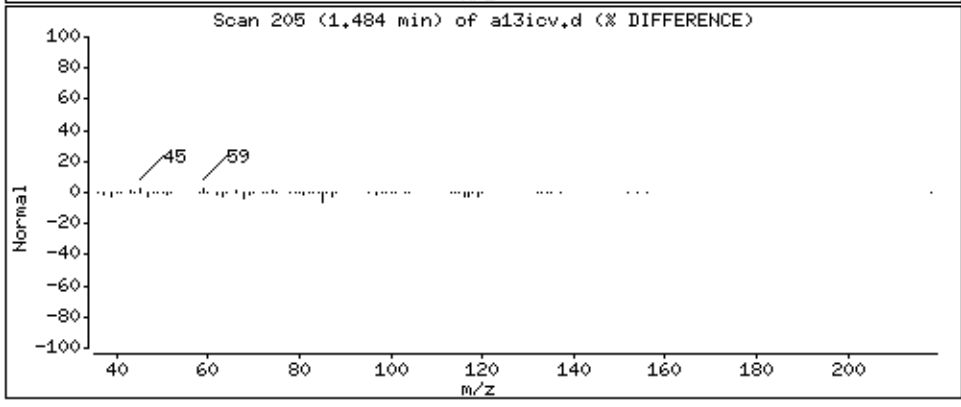












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

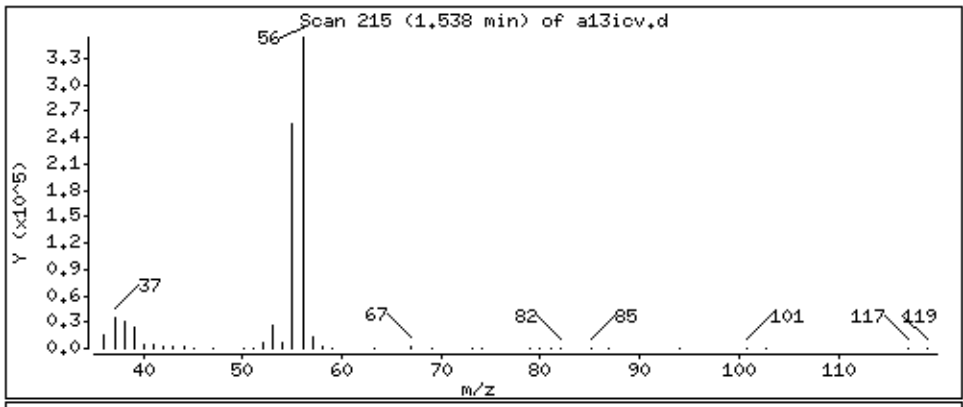
Column phase: DB-624

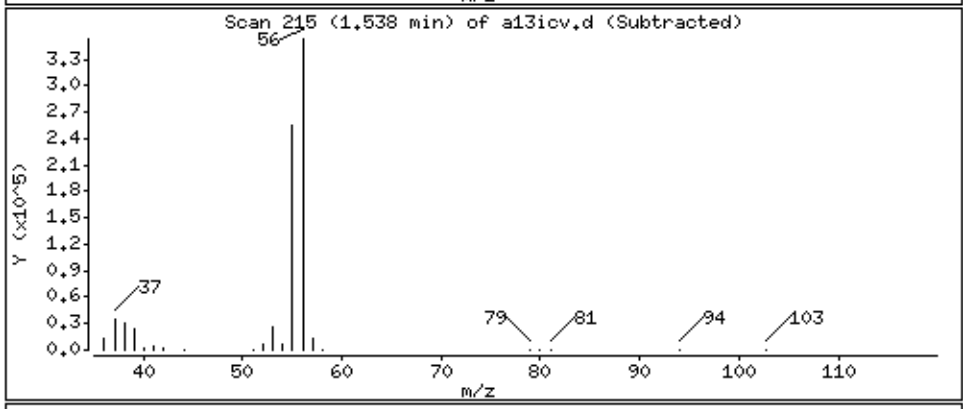
Column diameter: 0.18

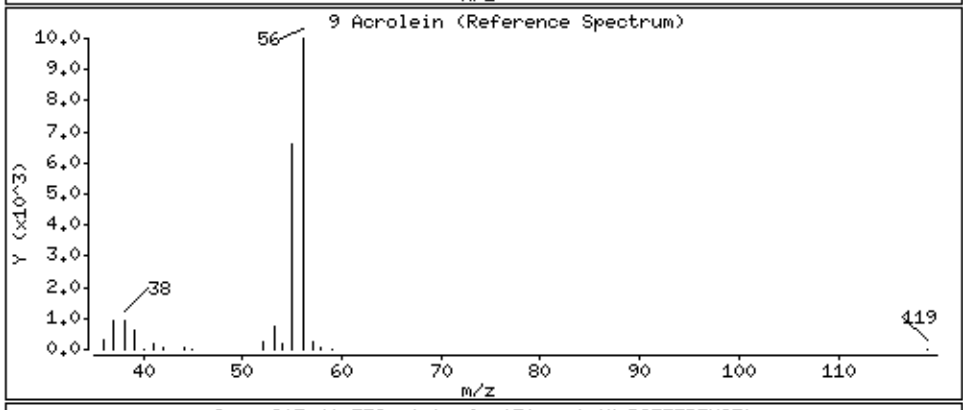
9 Acrolein

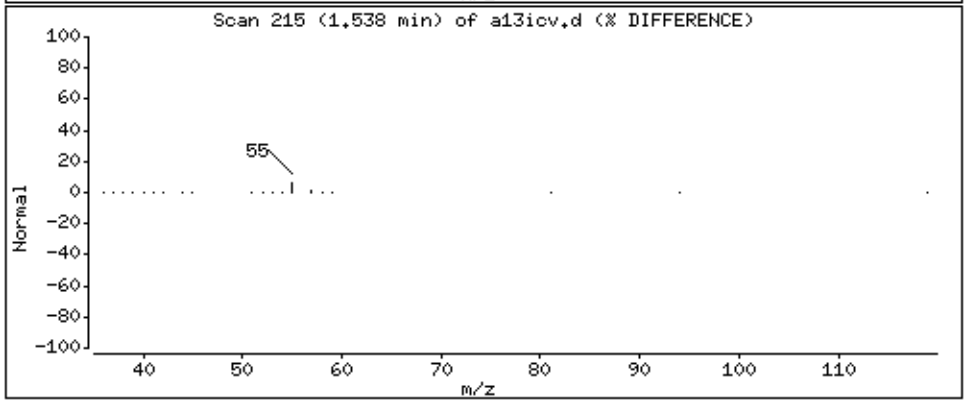
Concentration: 1010 ppb

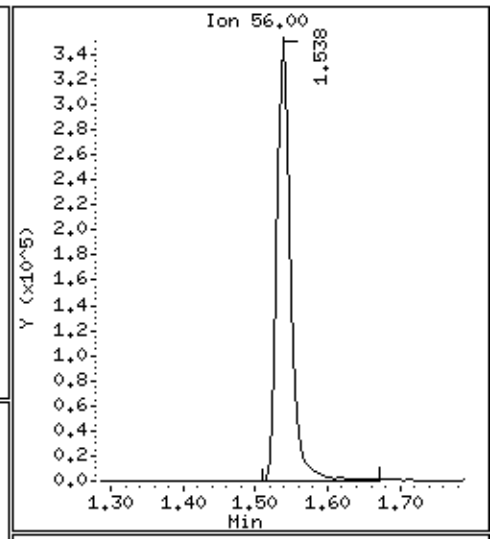
Review Code:

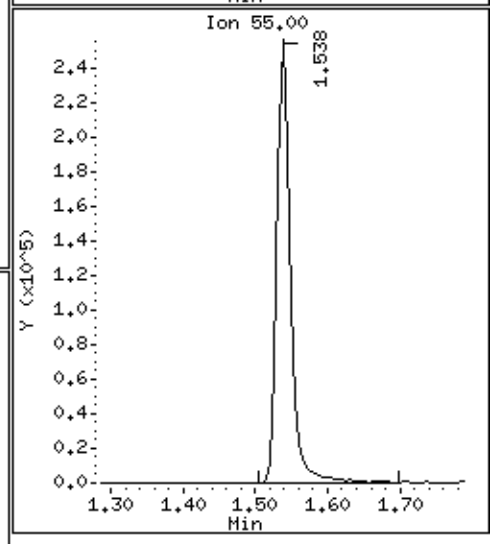












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

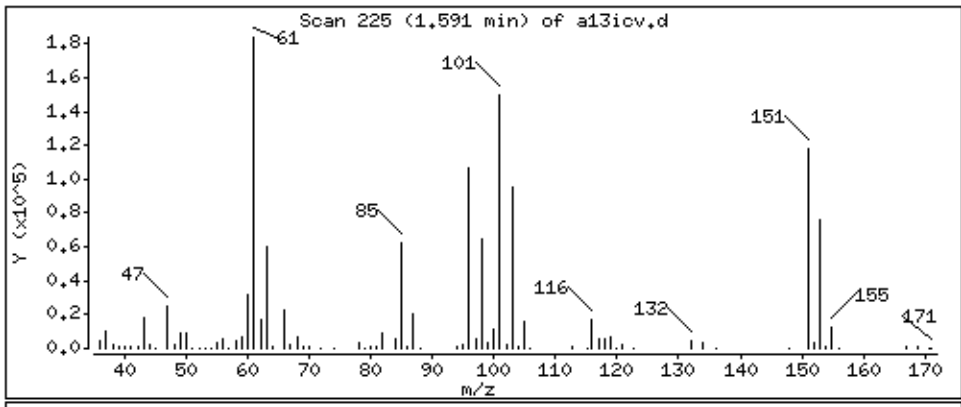
Column phase: DB-624

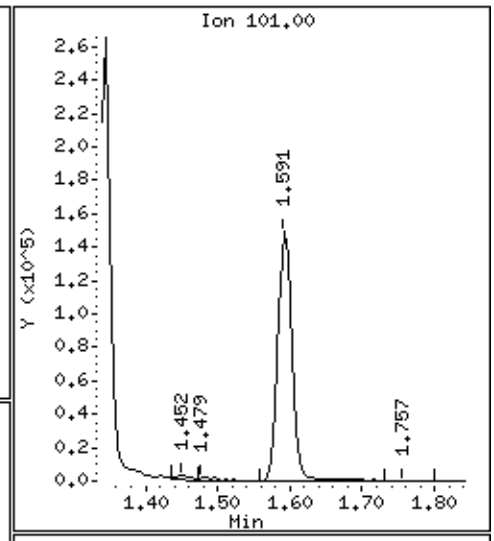
Column diameter: 0.18

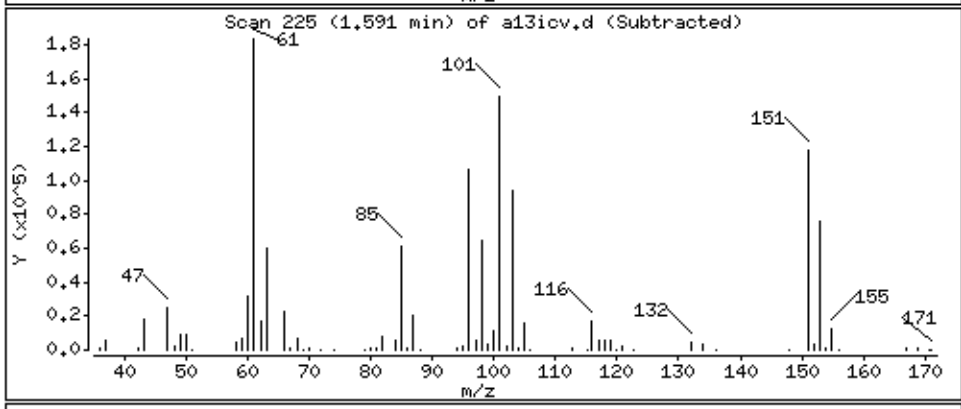
10 1,1,2trichlorotrifluoroethane

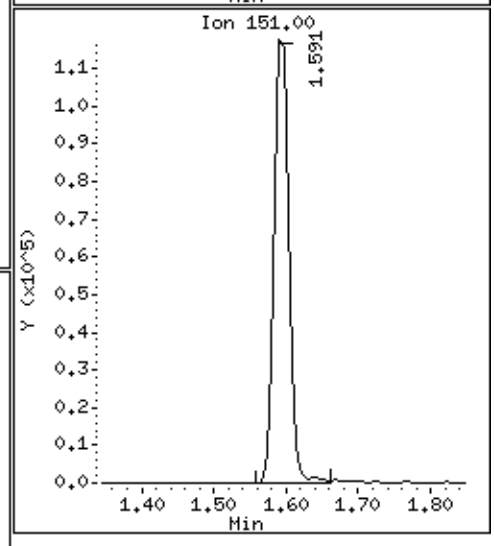
Concentration: 47.7 ppb

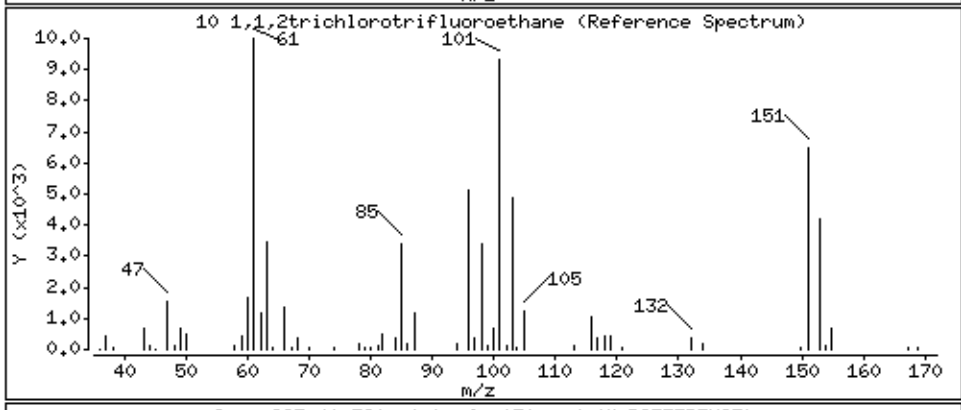
Review Code:

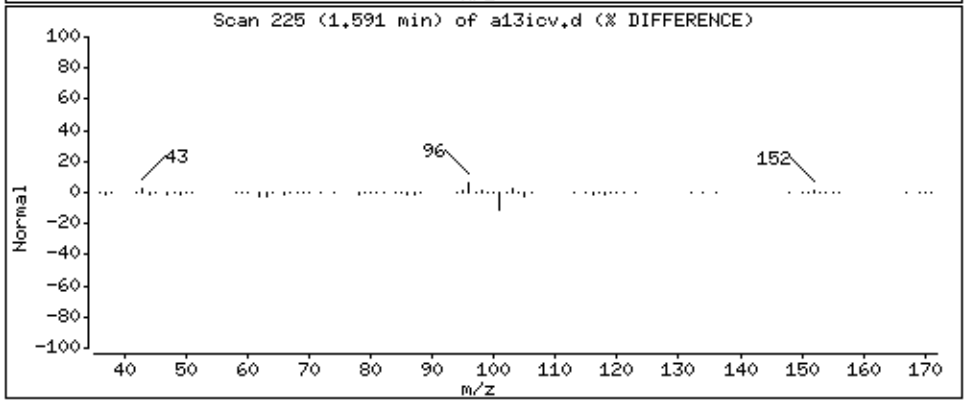












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

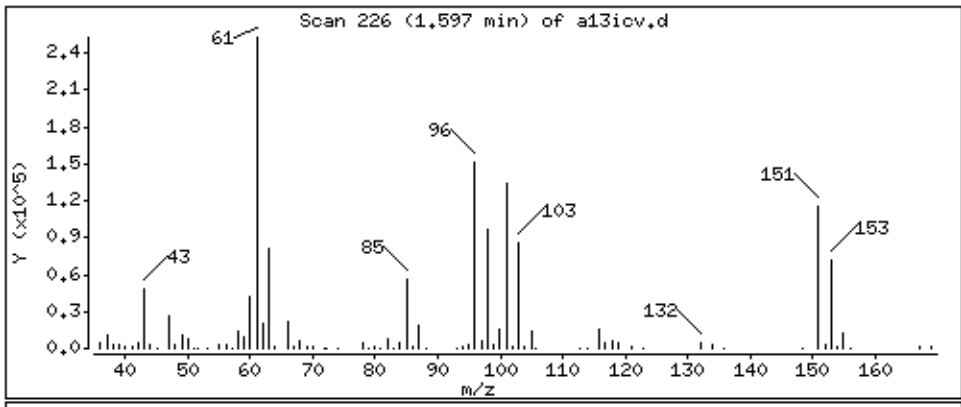
Column phase: DB-624

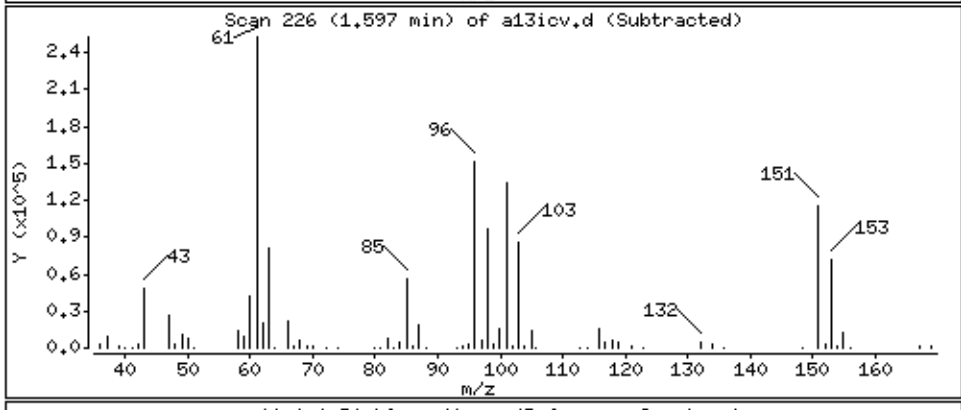
Column diameter: 0.18

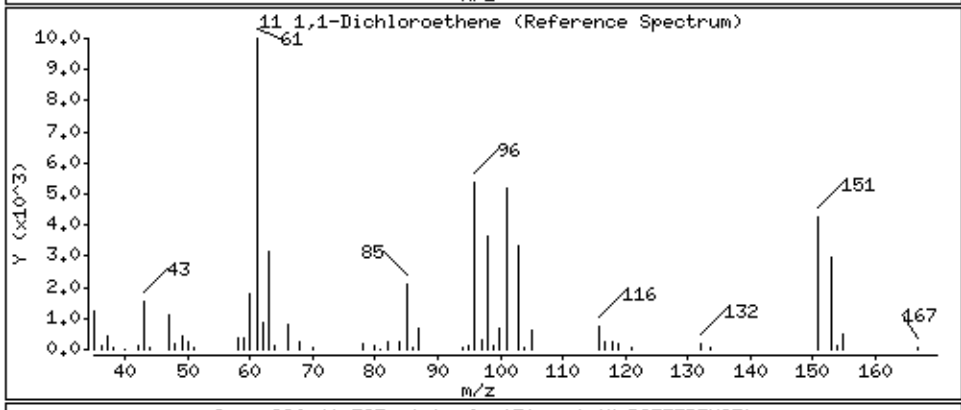
11 1,1-Dichloroethene

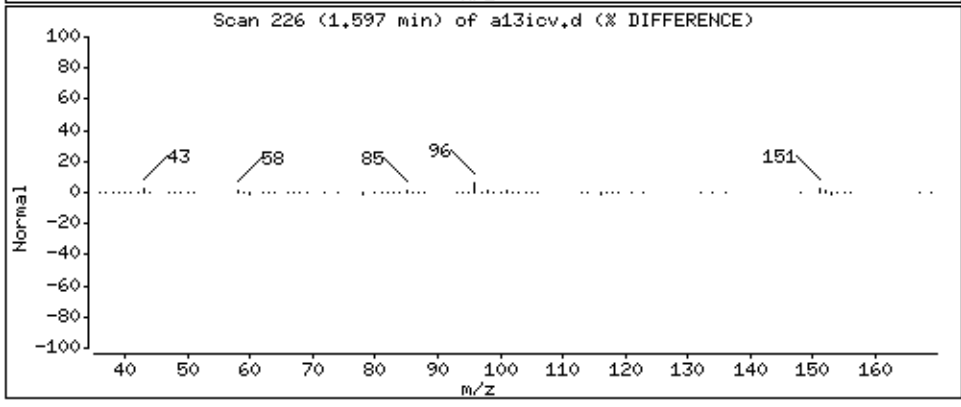
Concentration: 47.1 ppb

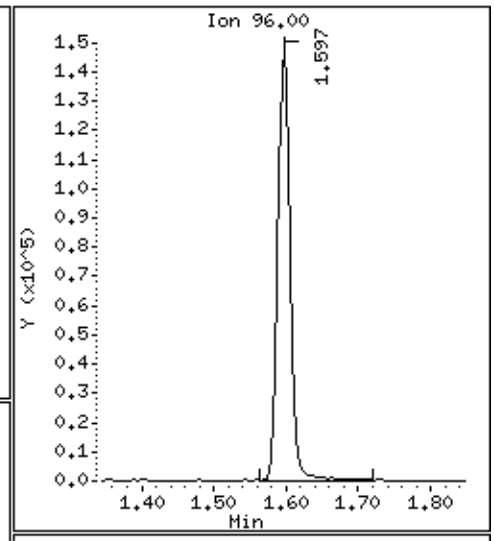
Review Code:

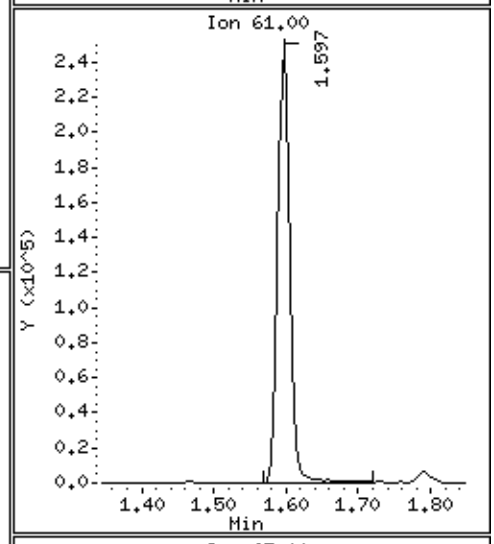


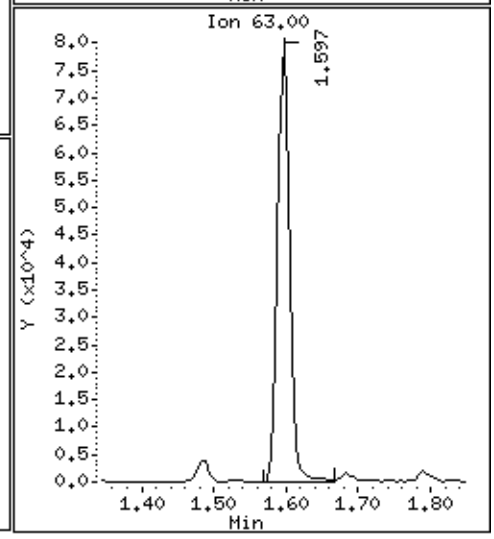












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

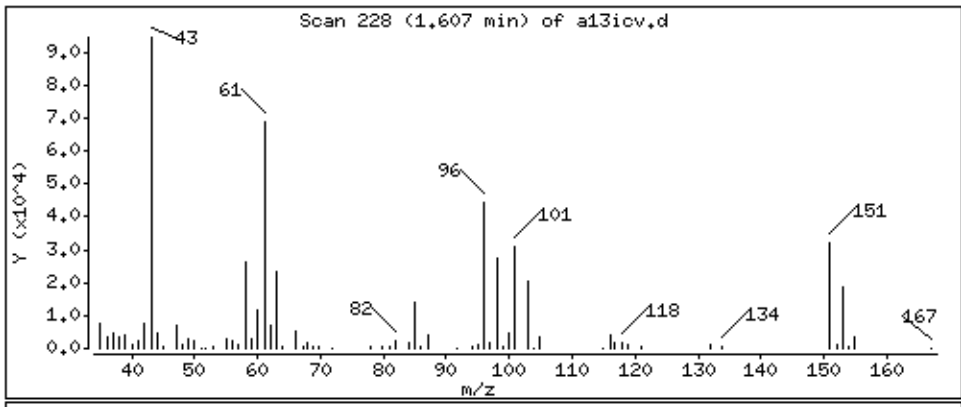
Column phase: DB-624

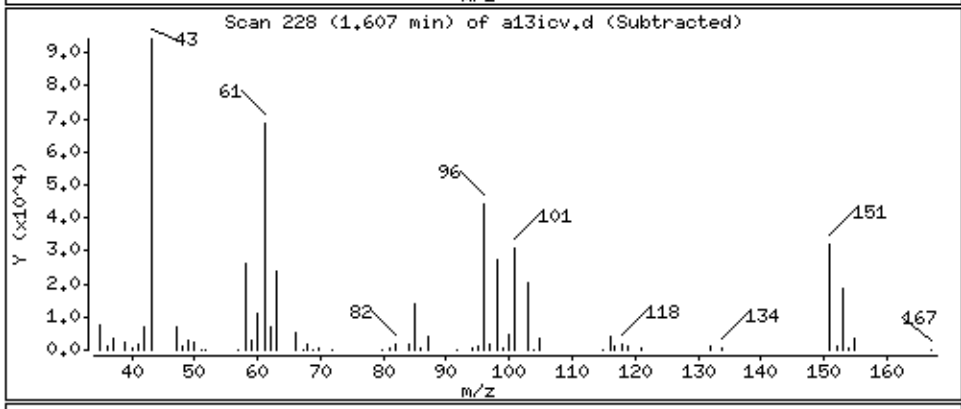
Column diameter: 0.18

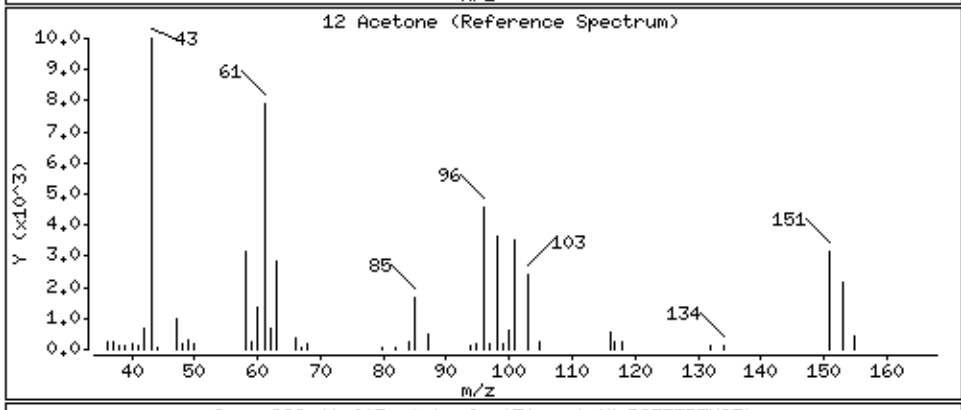
12 Acetone

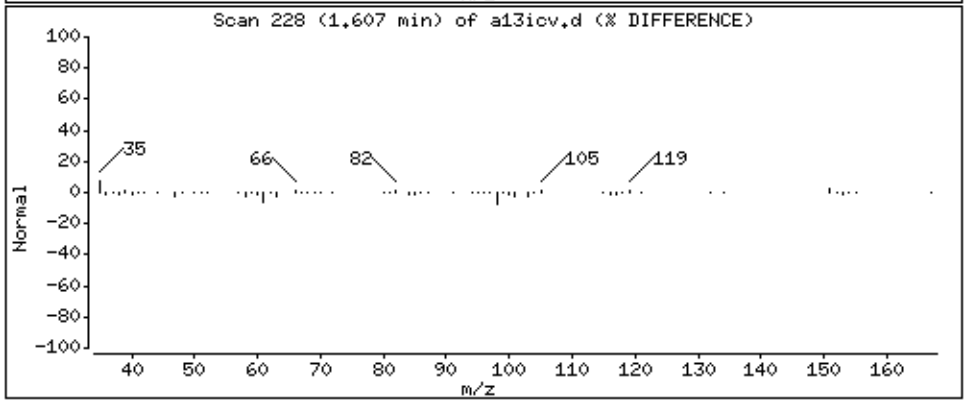
Concentration: 213 ppb

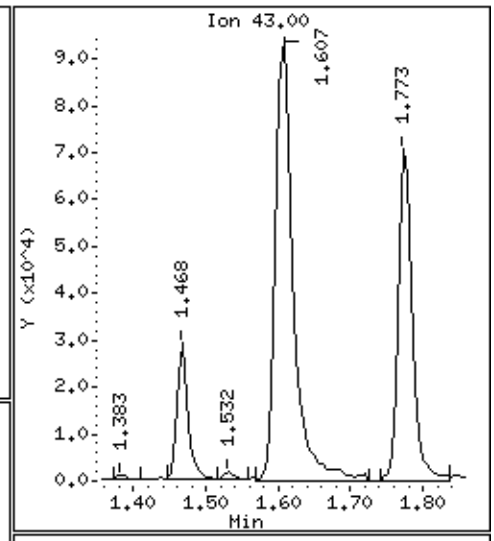
Review Code:

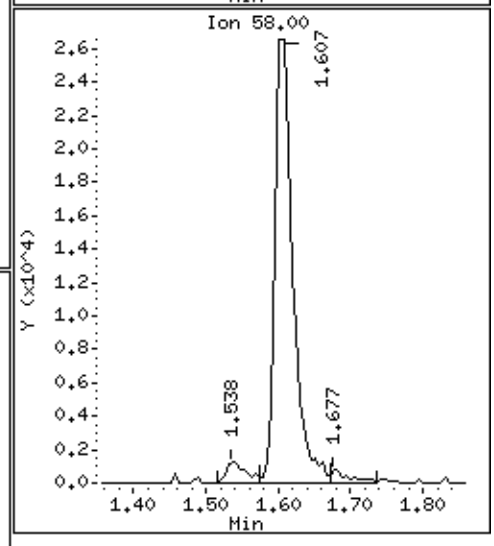












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

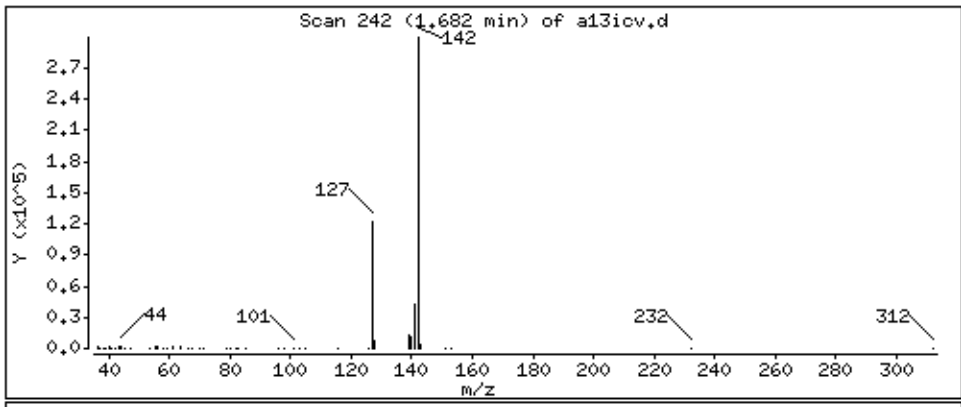
Column phase: DB-624

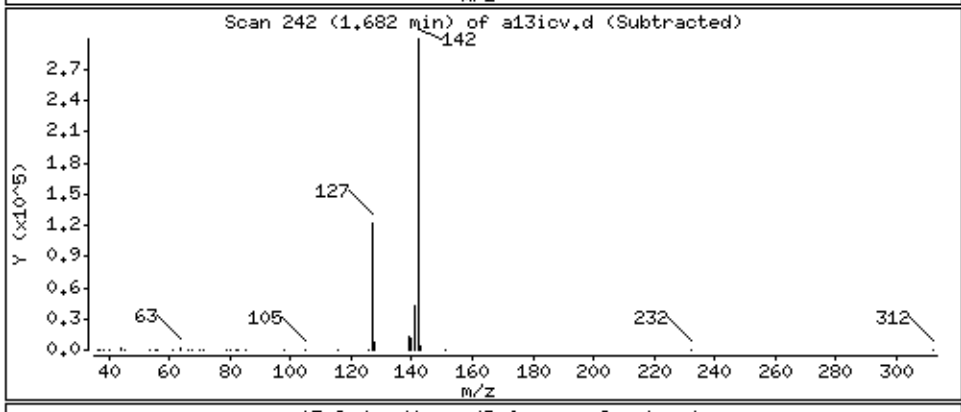
Column diameter: 0.18

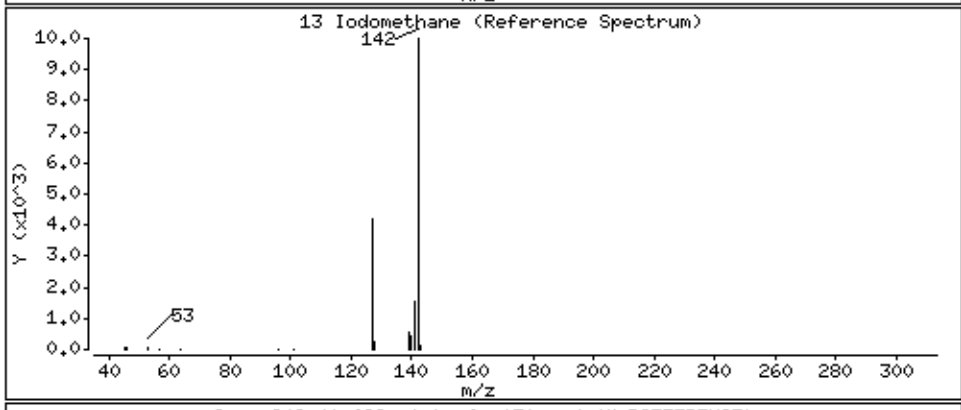
13 Iodomethane

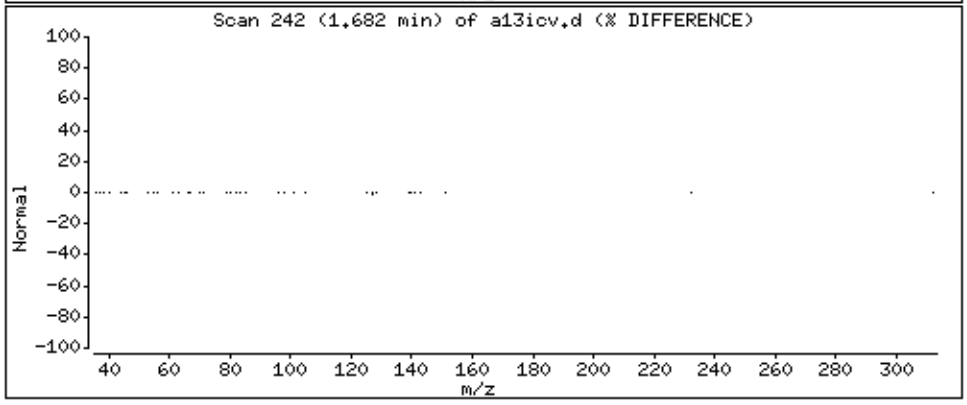
Concentration: 107 ppb

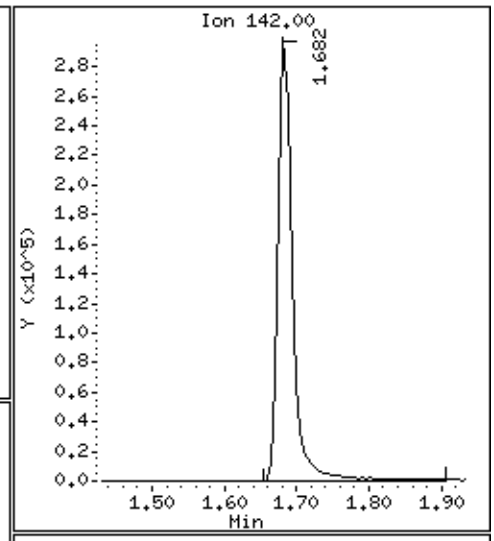
Review Code:

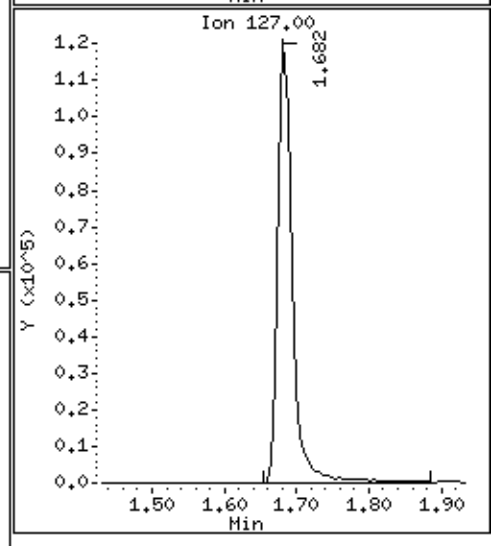












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

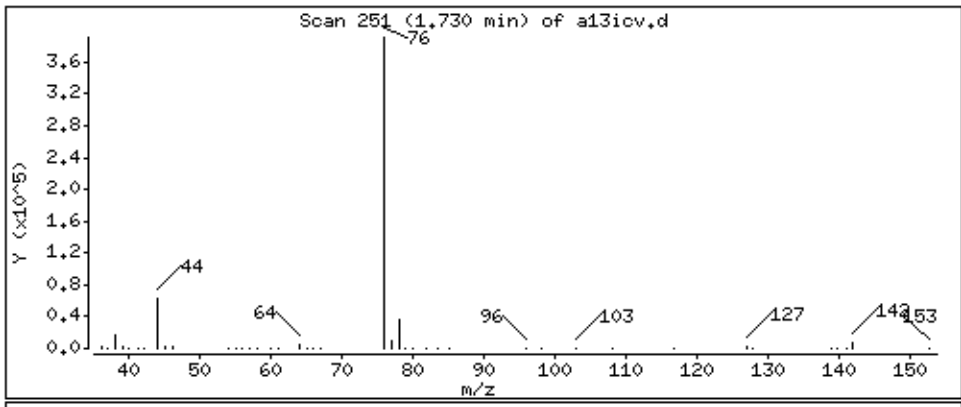
Column phase: DB-624

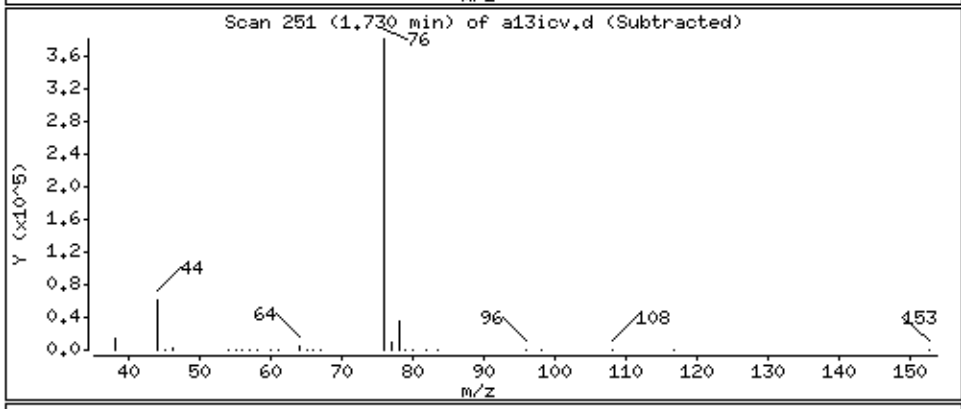
Column diameter: 0.18

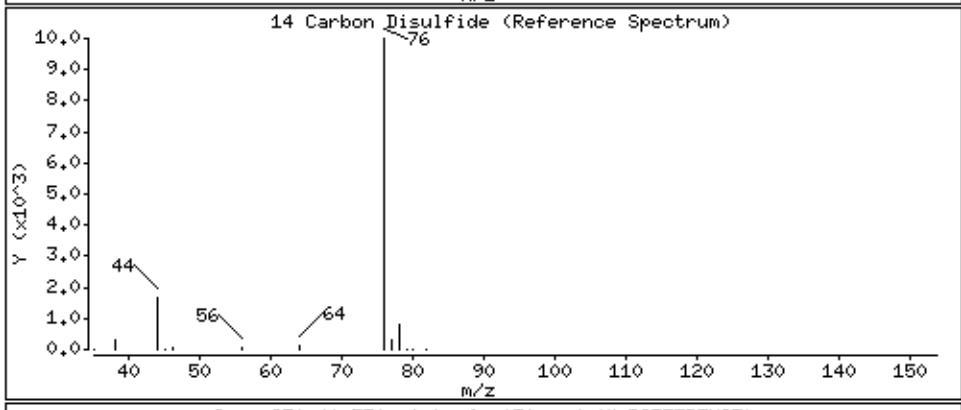
14 Carbon Disulfide

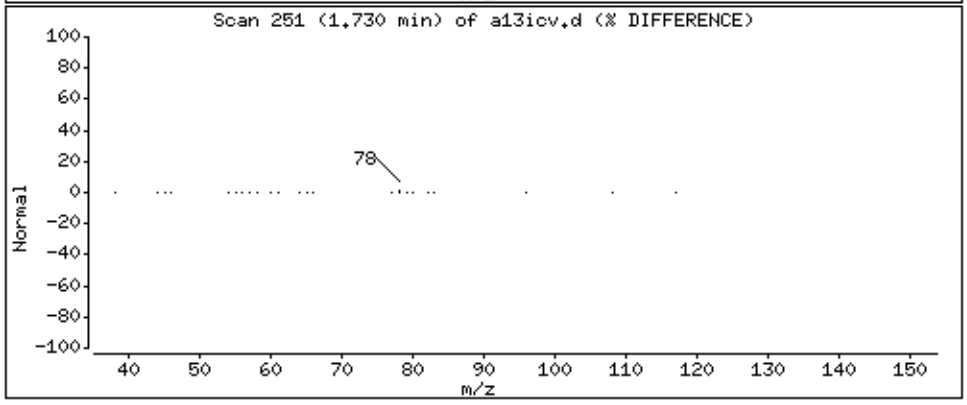
Concentration: 41.8 ppb

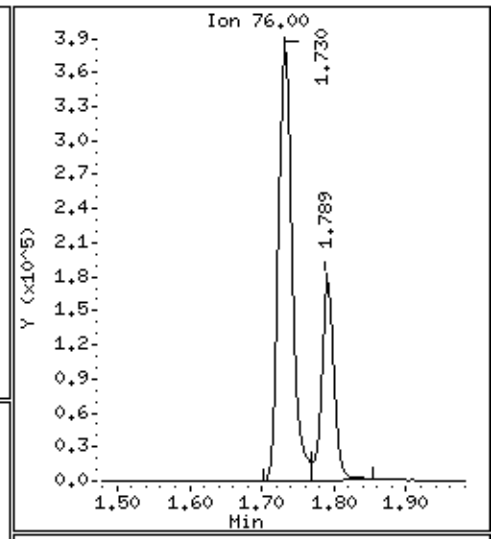
Review Code:

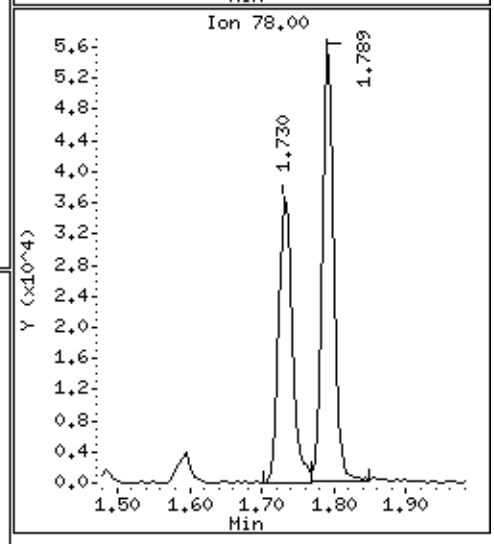












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

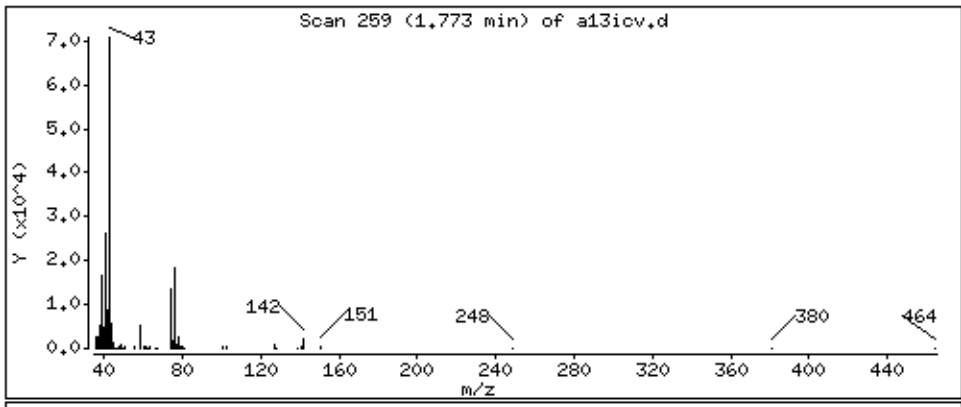
Column phase: DB-624

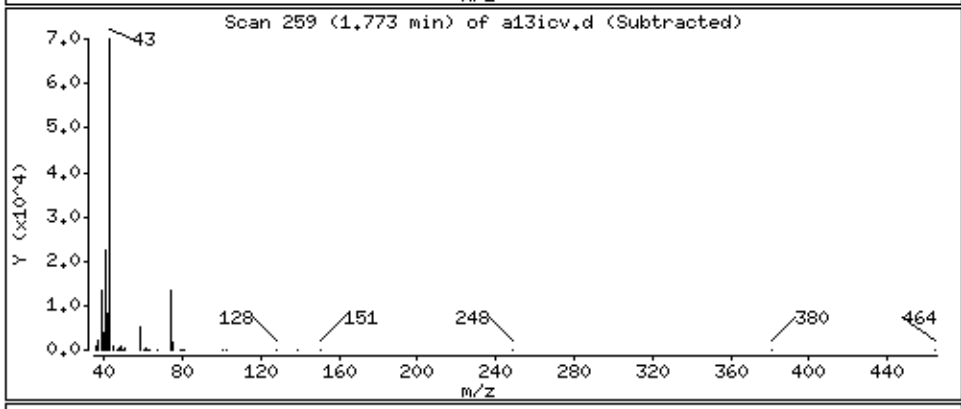
Column diameter: 0.18

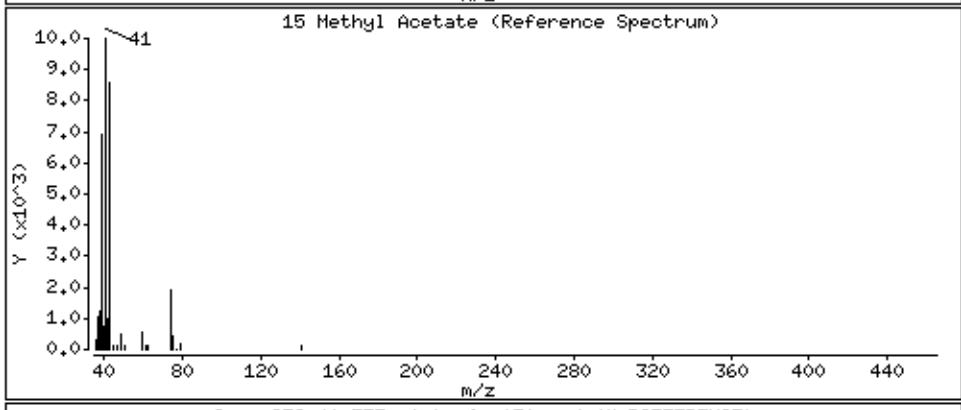
15 Methyl Acetate

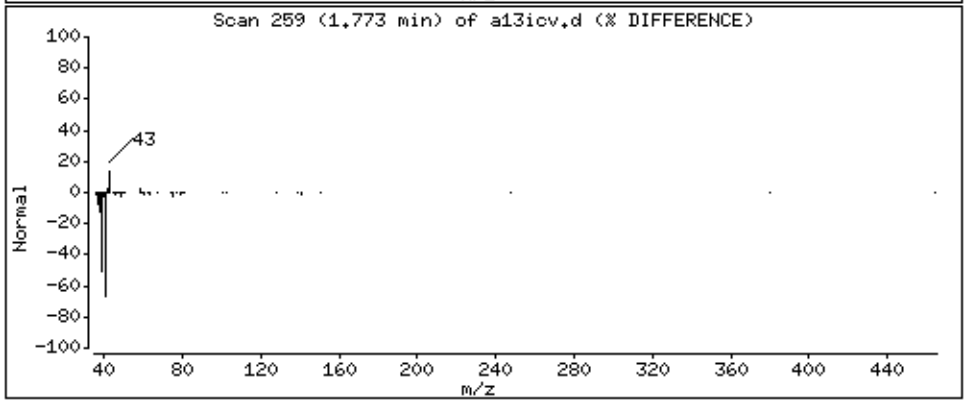
Concentration: 50.3 ppb

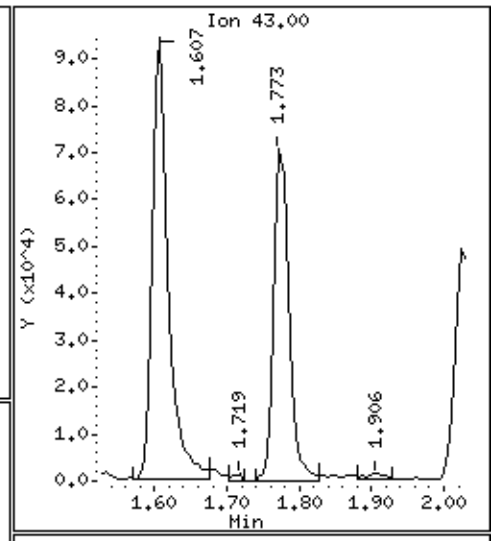
Review Code:

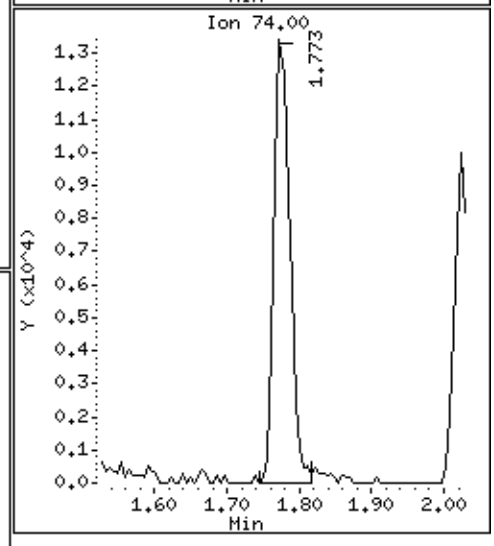












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 20

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

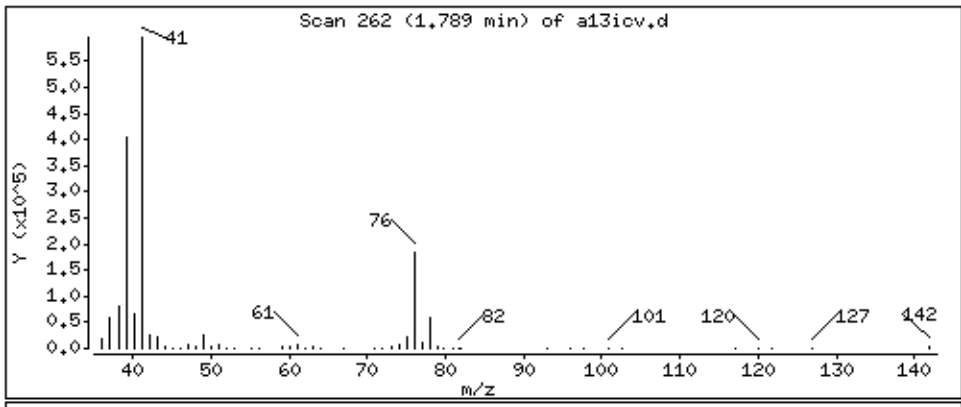
Column phase: DB-624

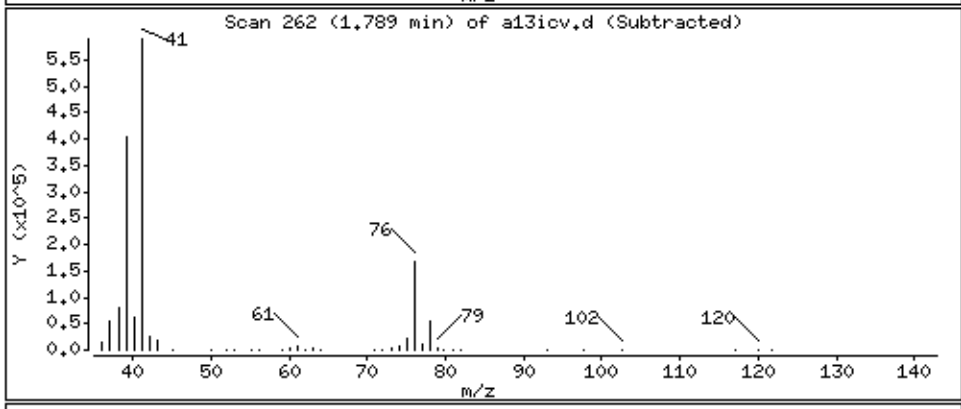
Column diameter: 0.18

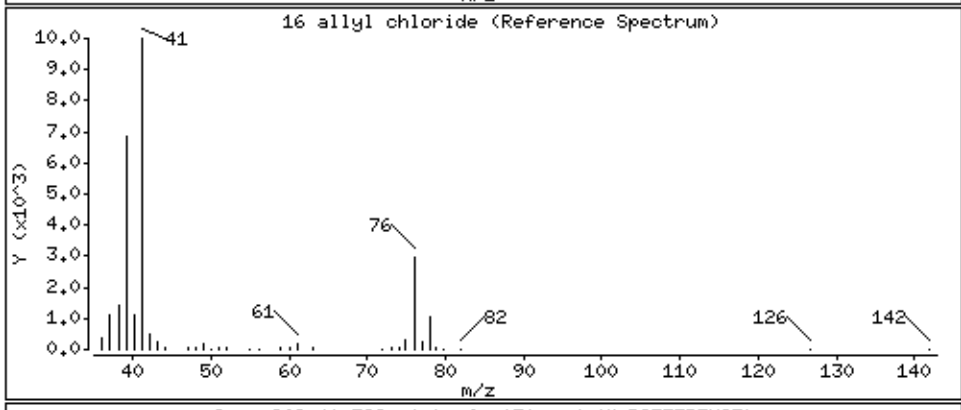
16 allyl chloride

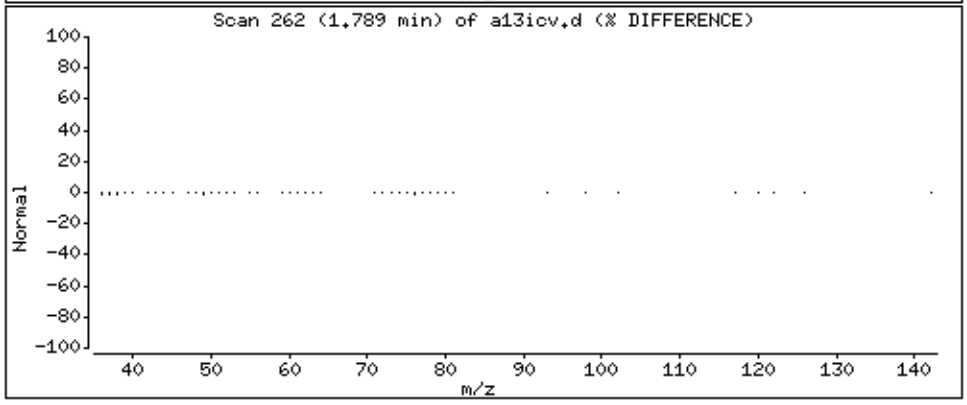
Concentration: 100 ppb

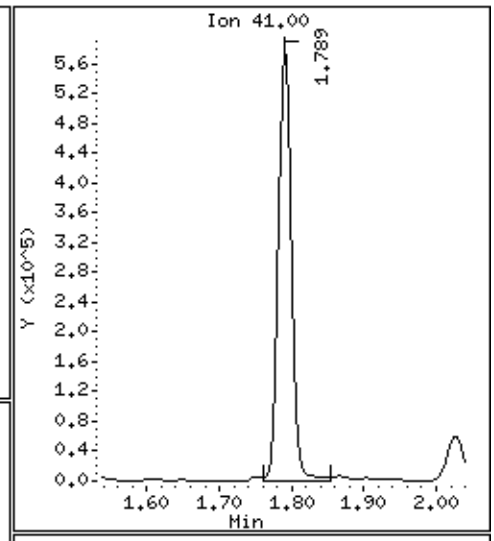
Review Code:

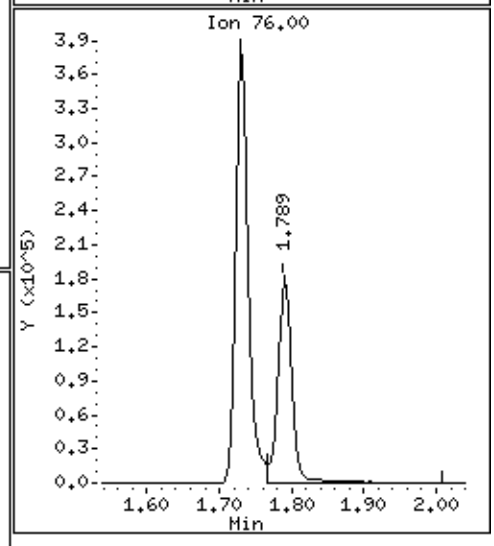












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

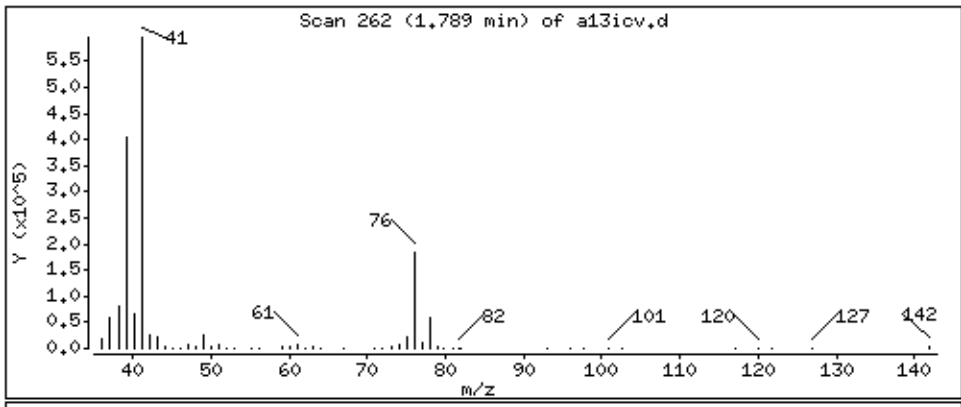
Column phase: DB-624

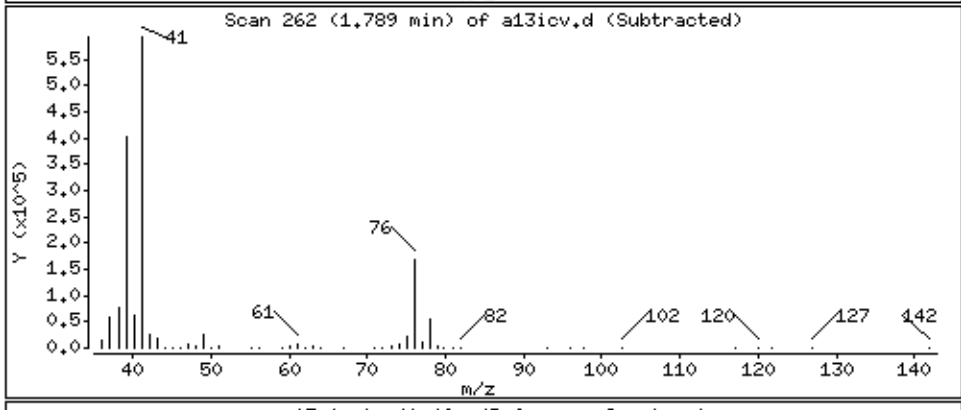
Column diameter: 0.18

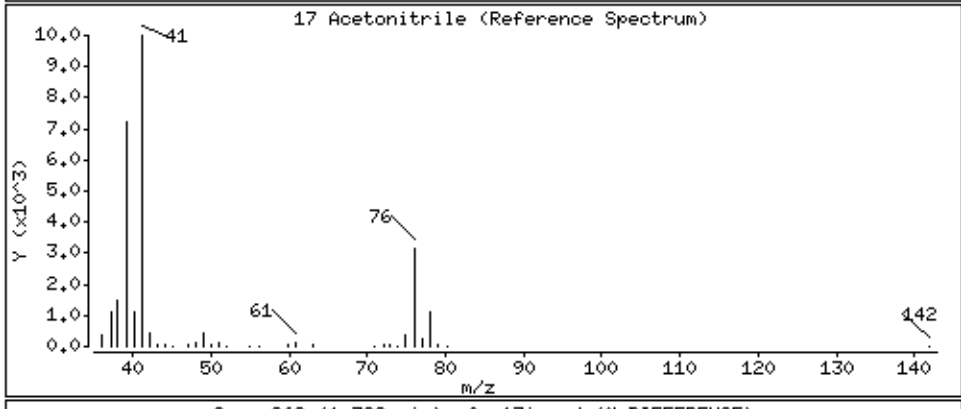
17 Acetonitrile

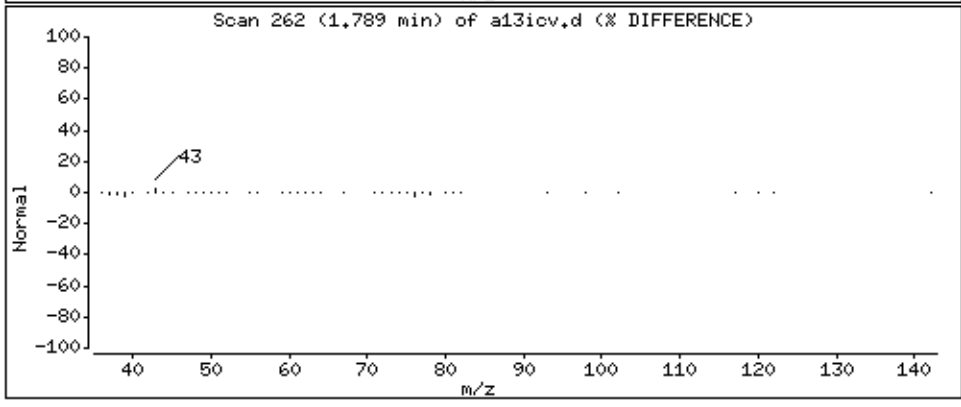
Concentration: 49.4 ppb

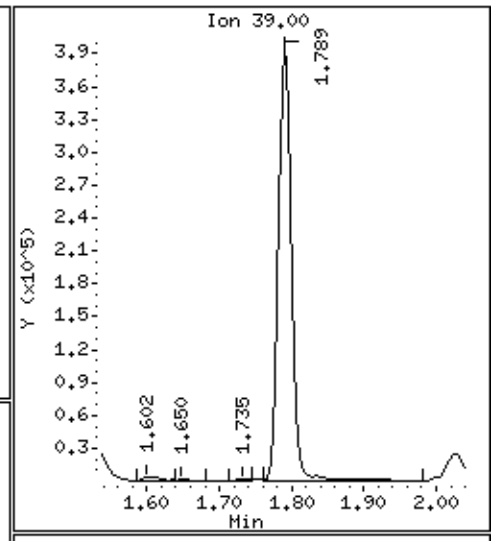
Review Code:

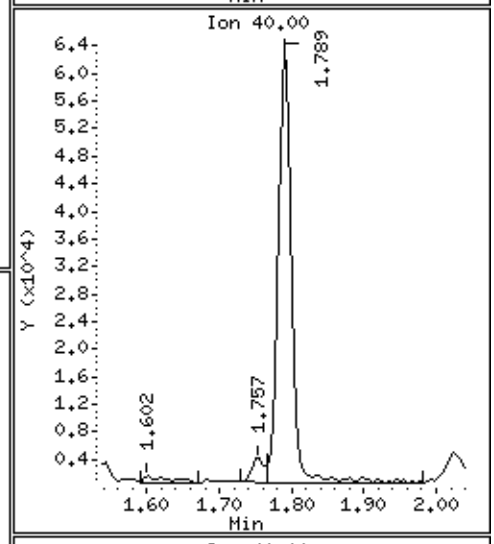


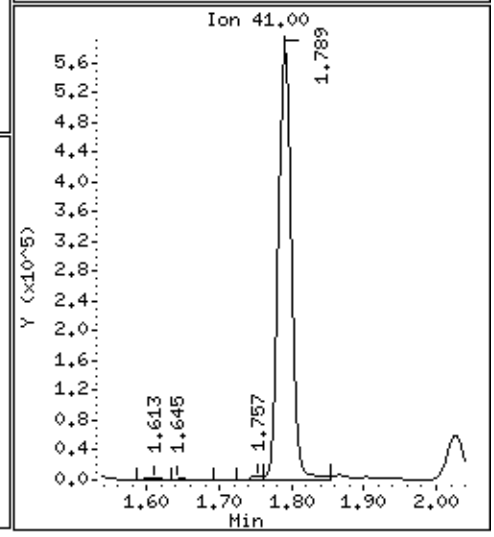












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

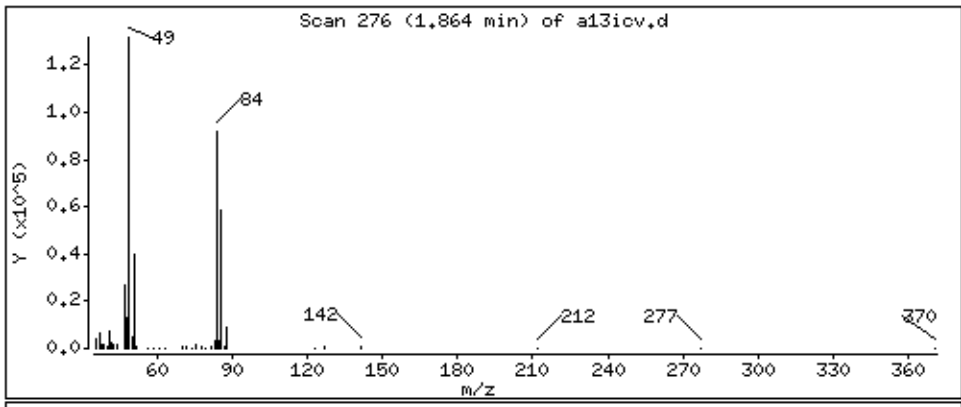
Column phase: DB-624

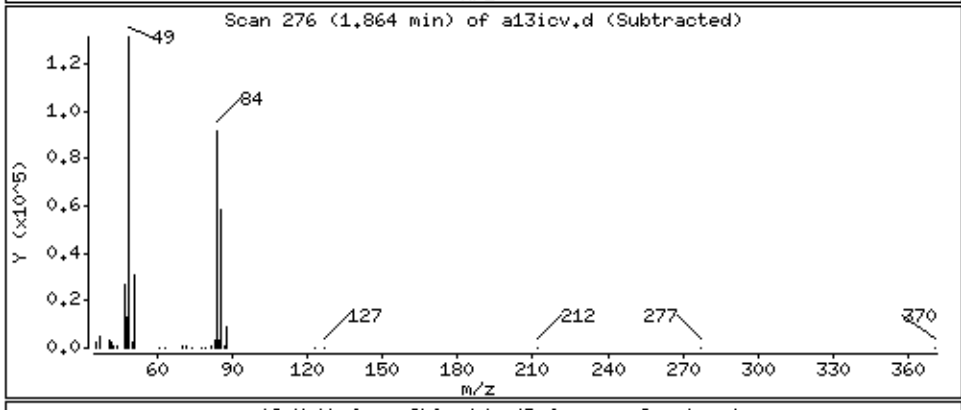
Column diameter: 0.18

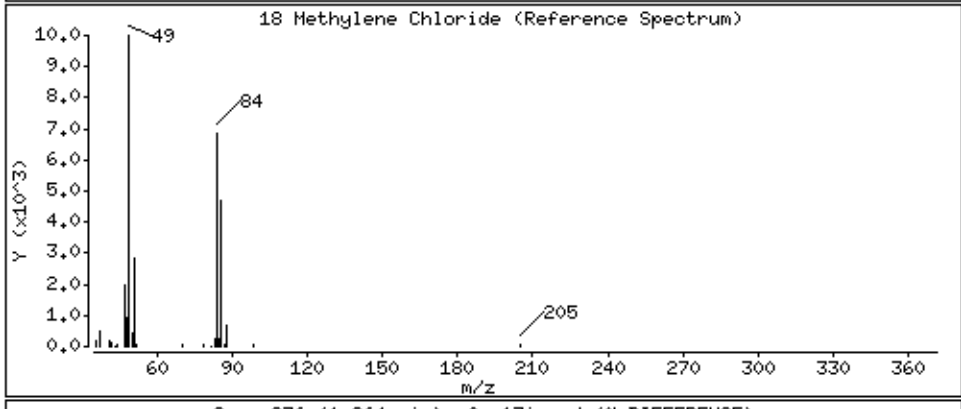
18 Methylene Chloride

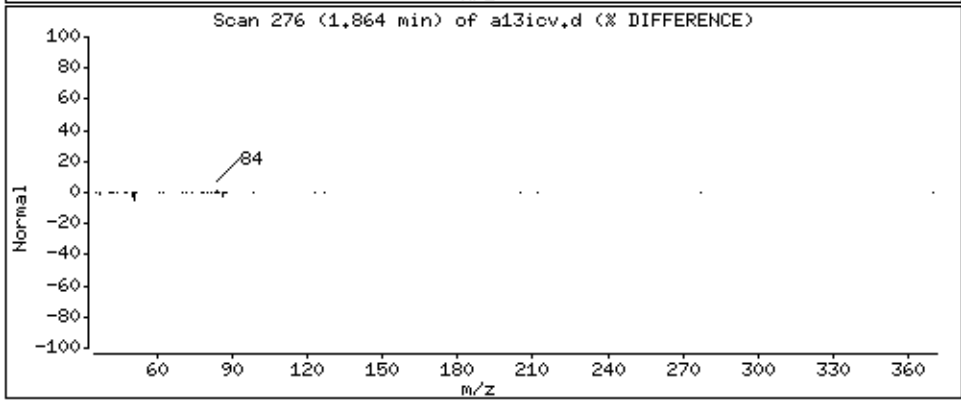
Concentration: 44.1 ppb

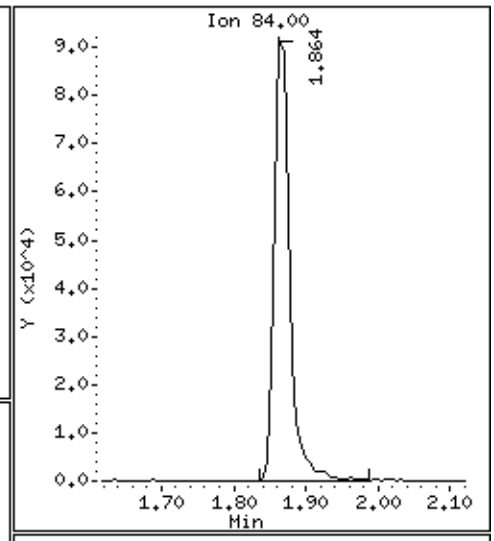
Review Code:

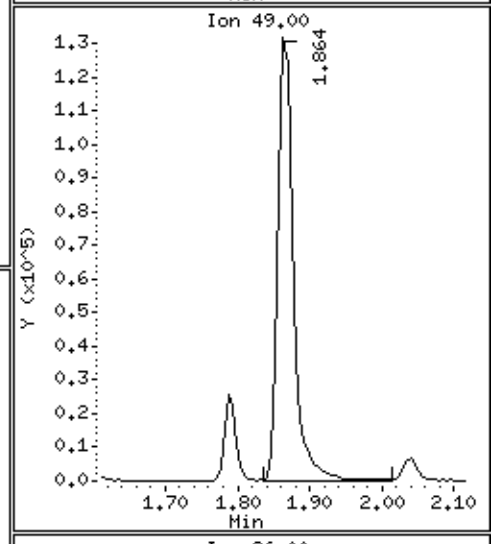


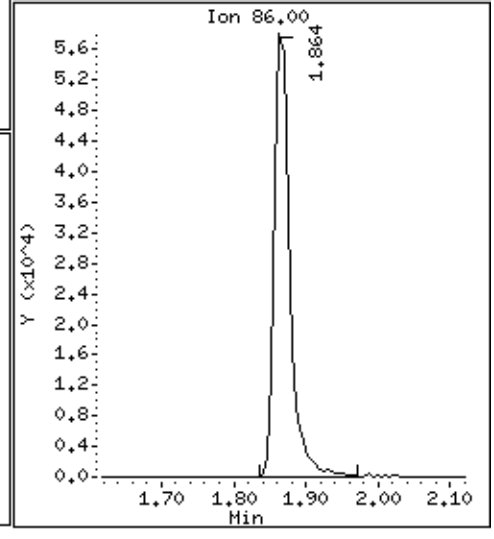












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

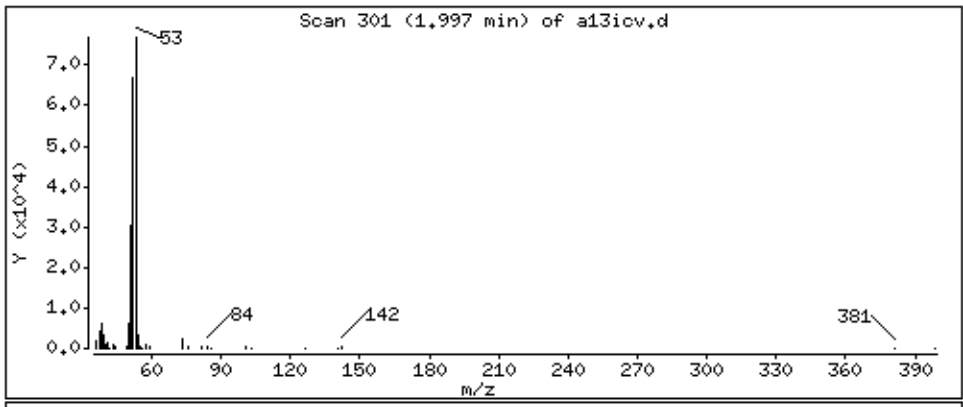
Column phase: DB-624

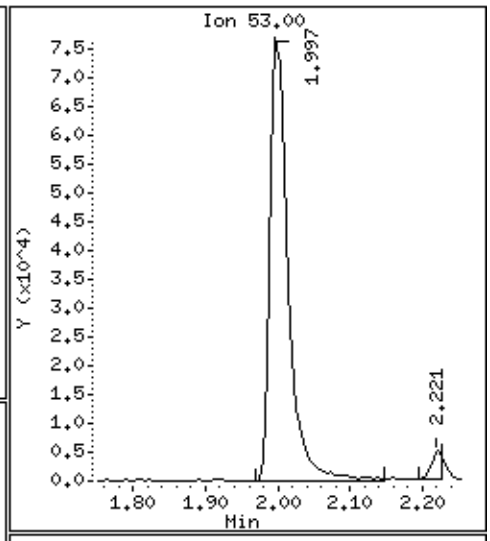
Column diameter: 0.18

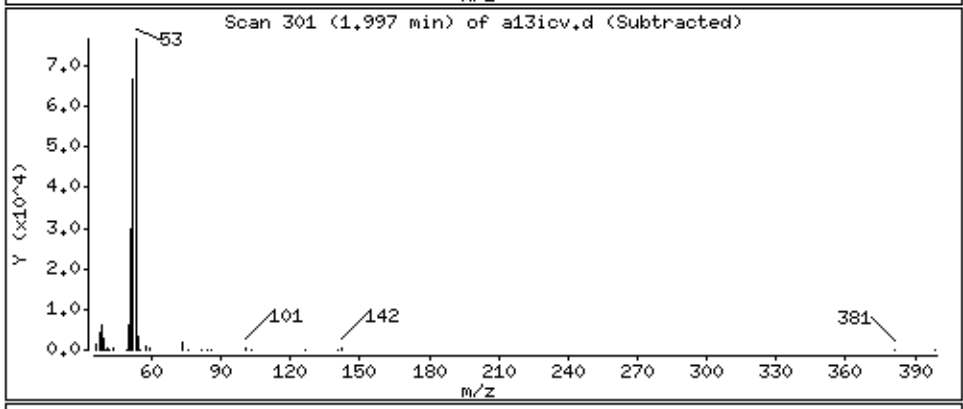
19 Acrylonitrile

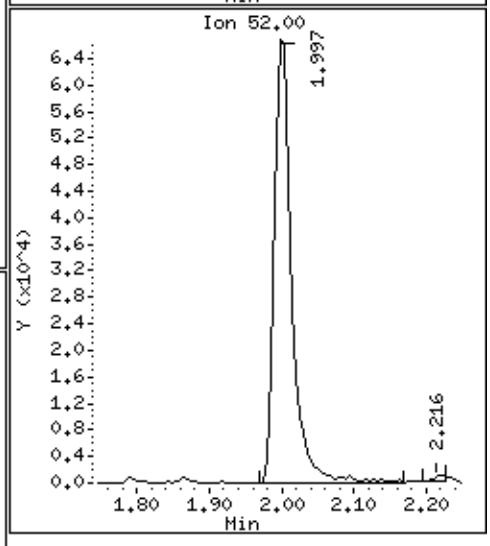
Concentration: 185 ppb

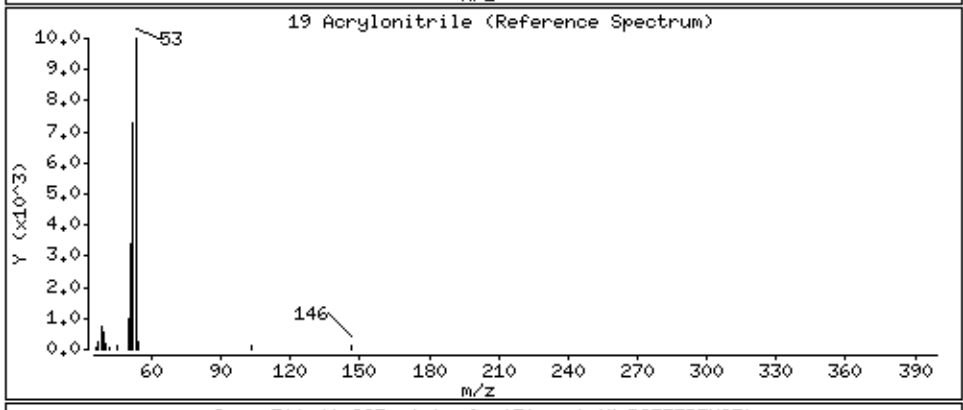
Review Code:

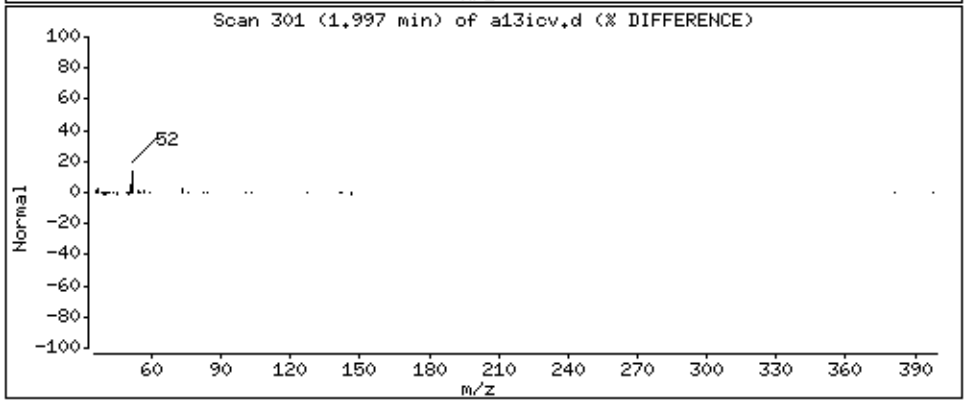












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

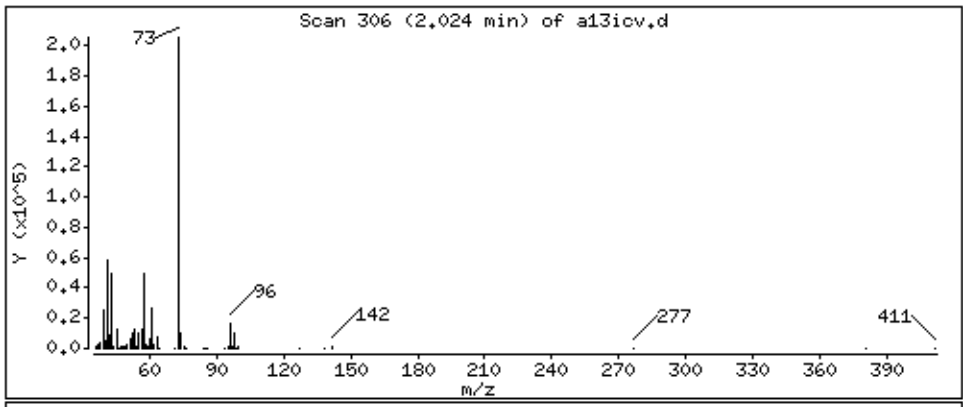
Column phase: DB-624

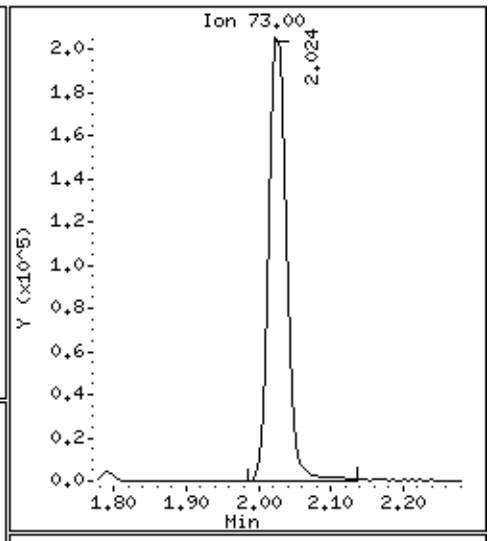
Column diameter: 0.18

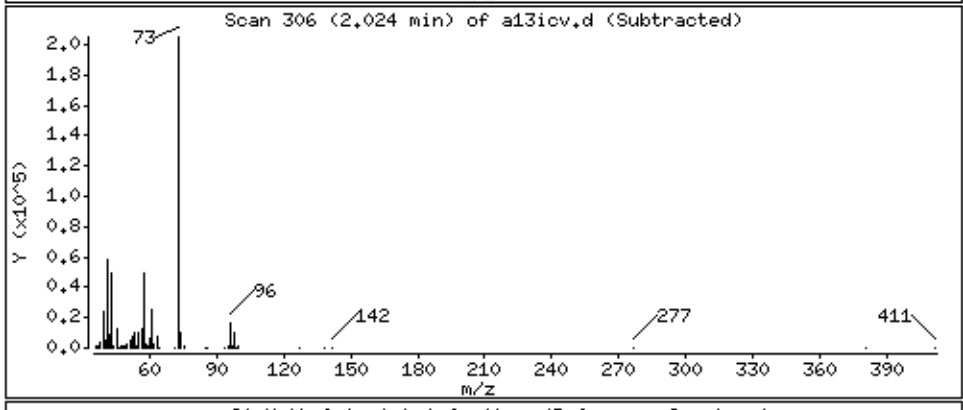
20 Methyl-tert-butyl ether

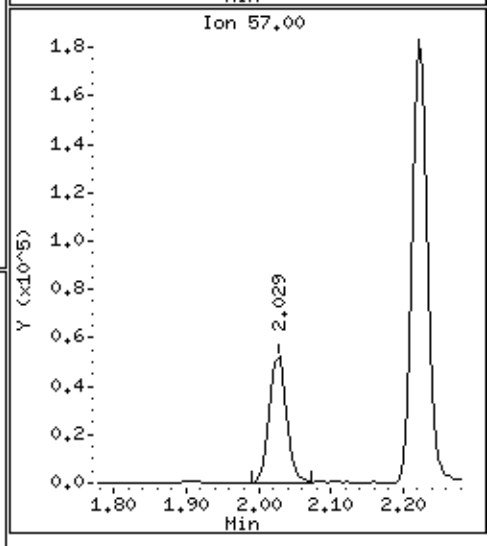
Concentration: 49.6 ppb

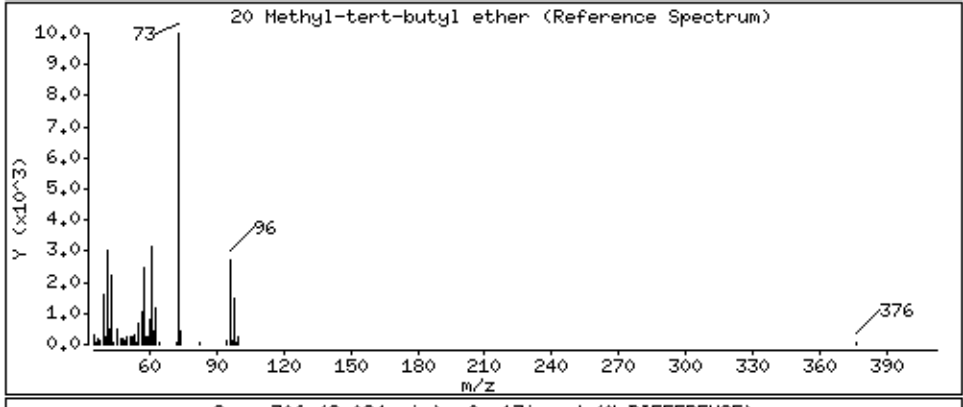
Review Code:

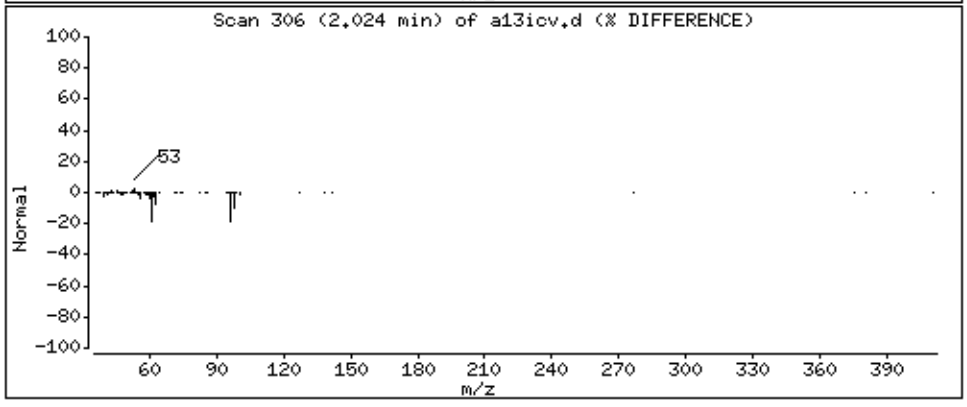












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

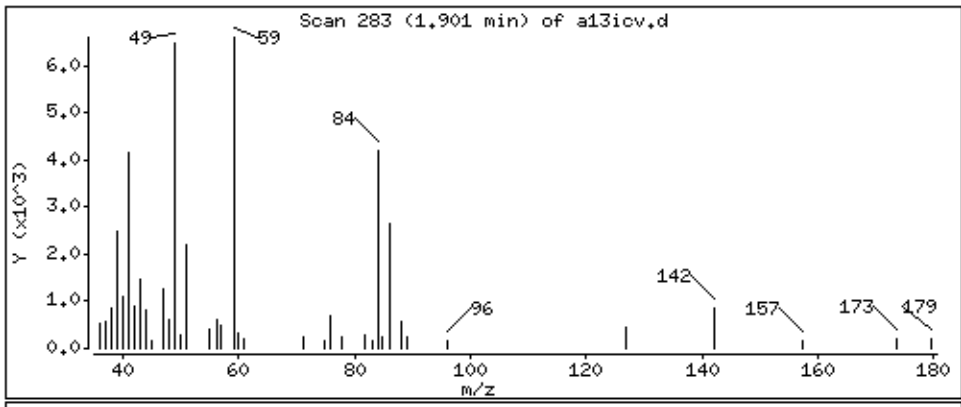
Column phase: DB-624

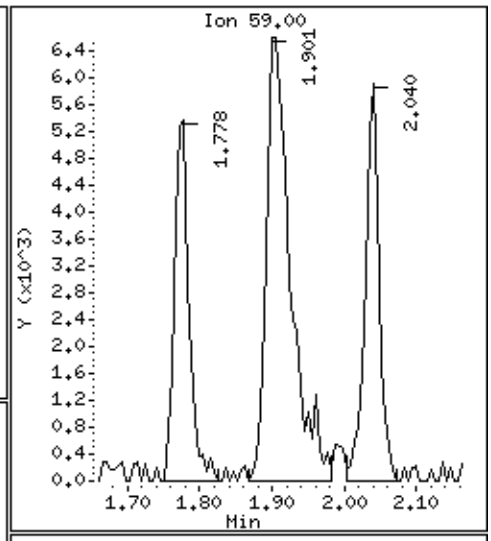
Column diameter: 0.18

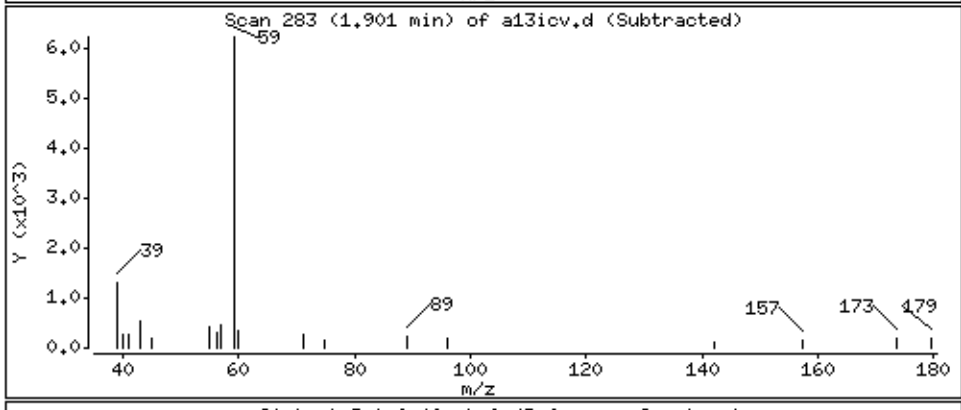
21 tert-Butyl Alcohol

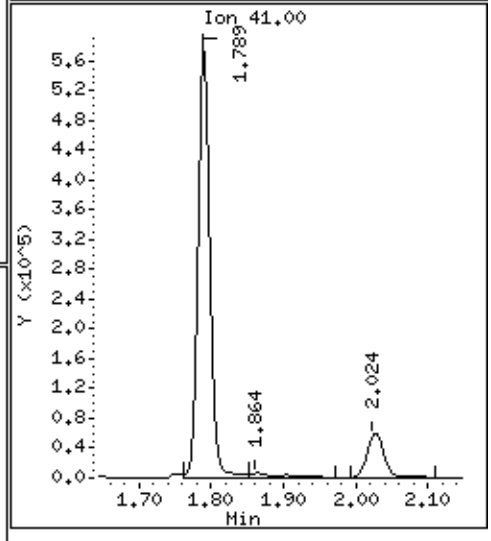
Concentration: 97.2 ppb

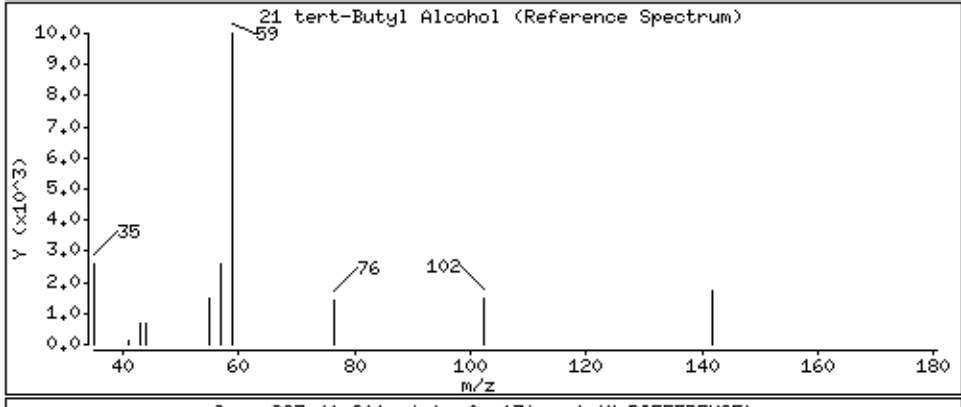
Review Code:

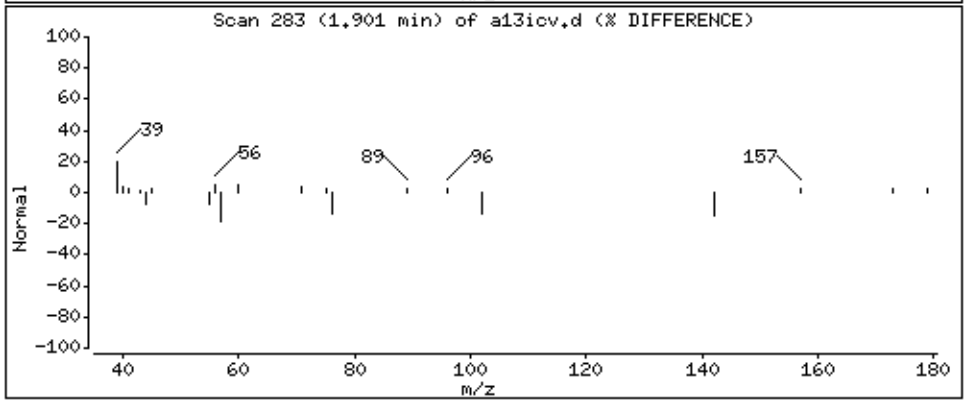












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

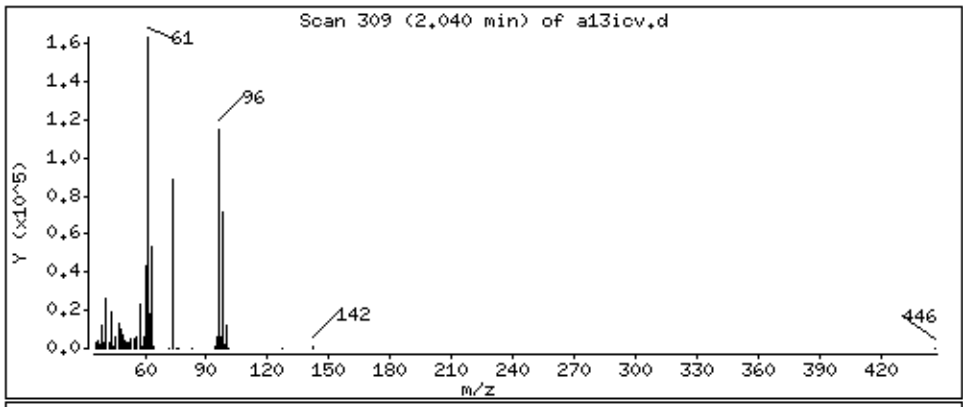
Column phase: DB-624

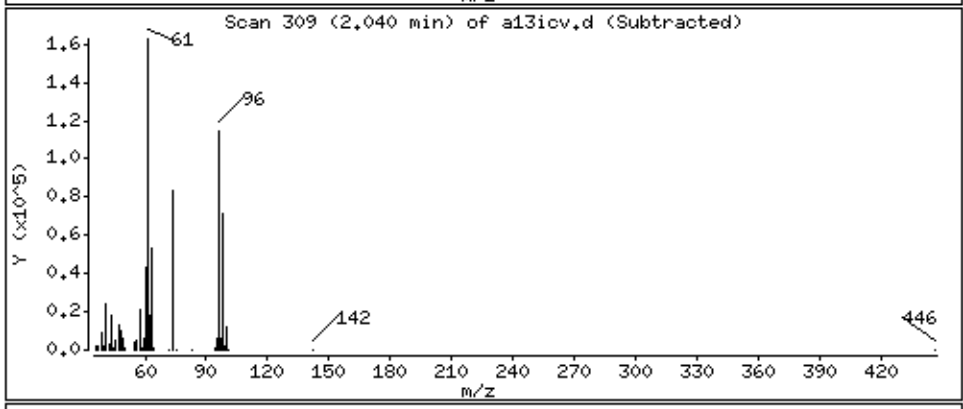
Column diameter: 0.18

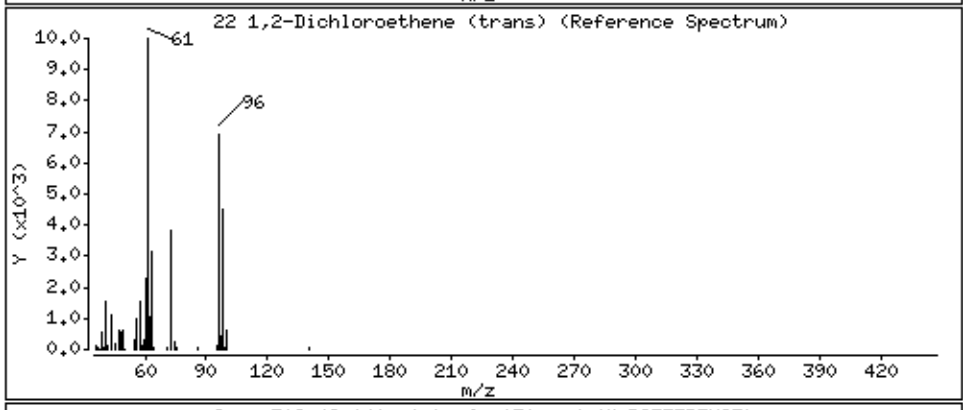
22 1,2-Dichloroethene (trans)

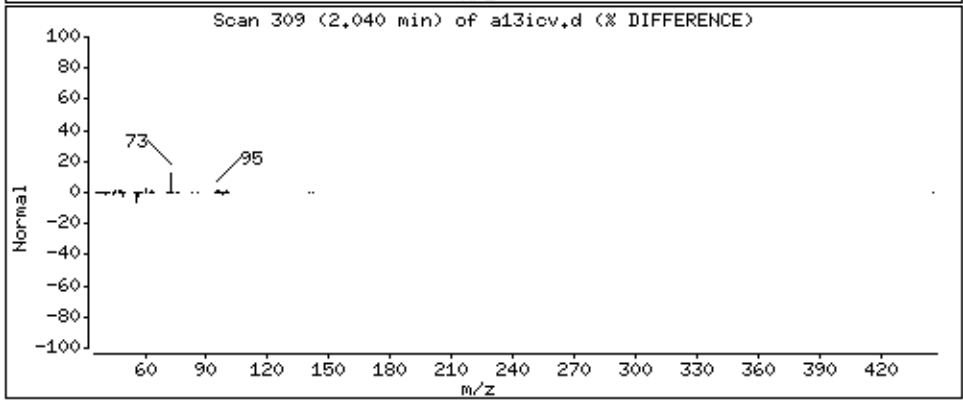
Concentration: 46.4 ppb

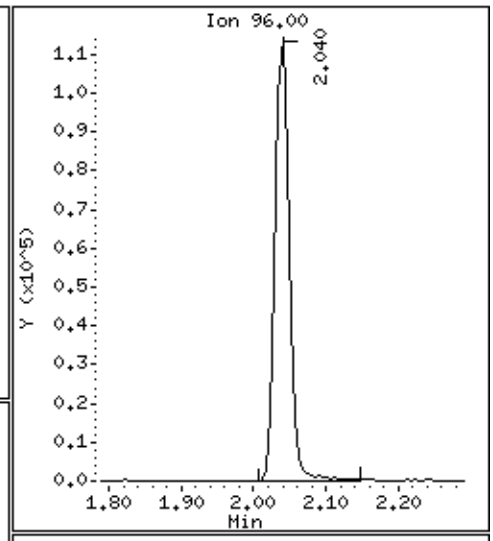
Review Code:

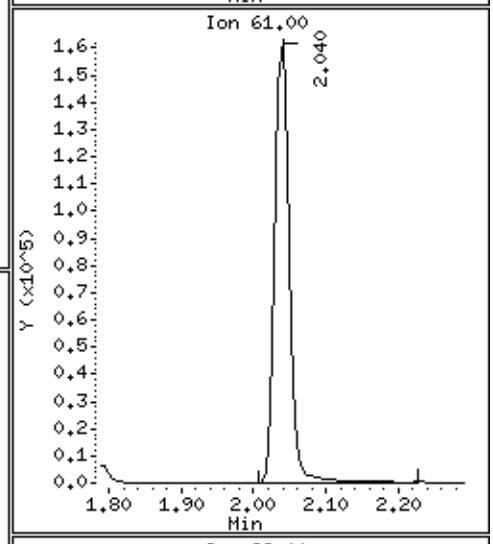


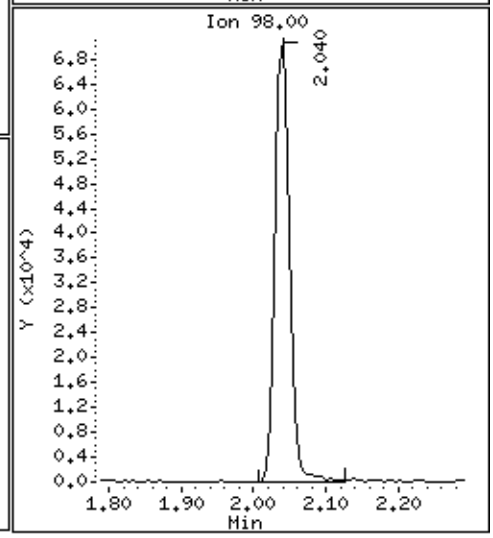












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

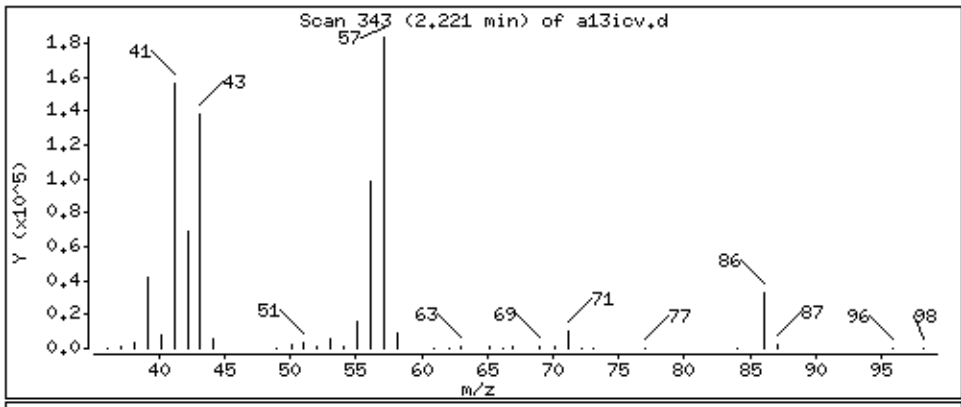
Column phase: DB-624

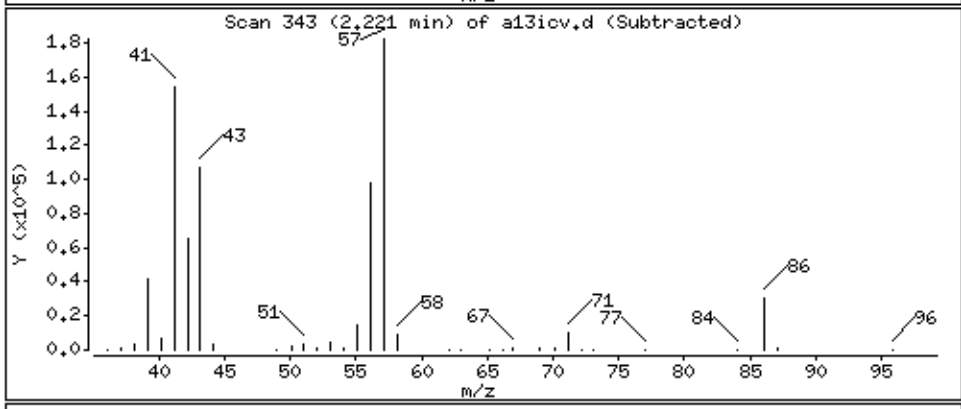
Column diameter: 0.18

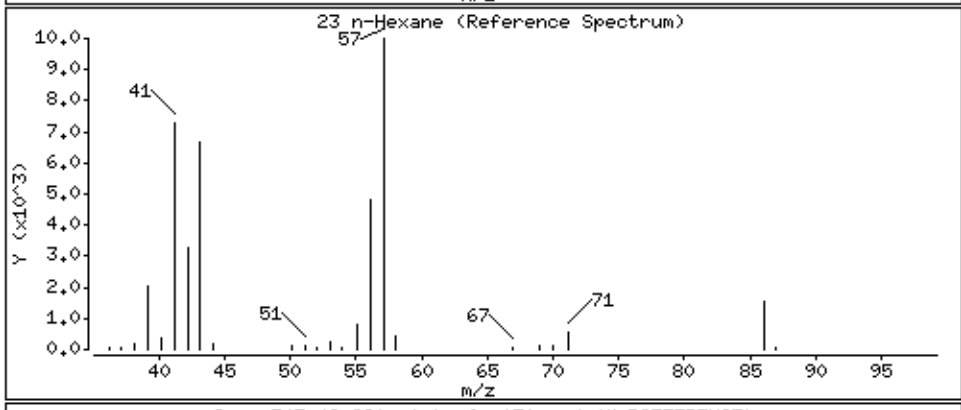
23 n-Hexane

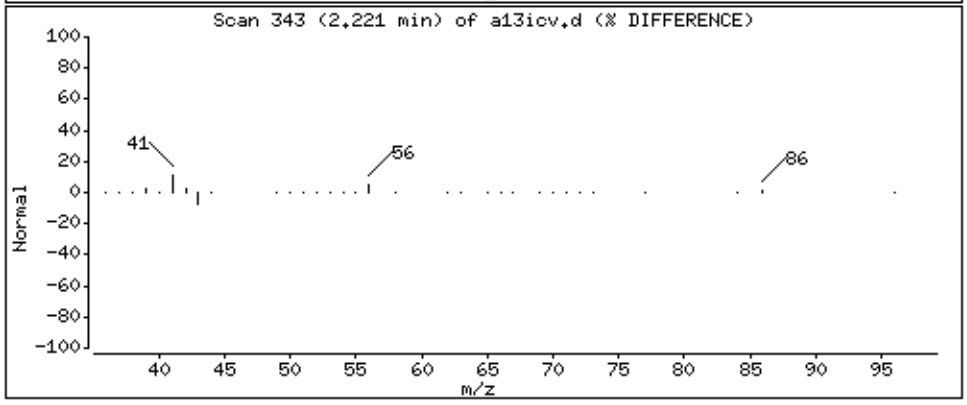
Concentration: 41.5 ppb

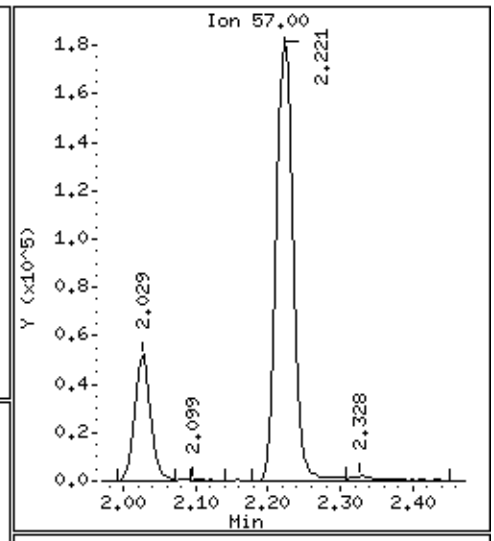
Review Code:

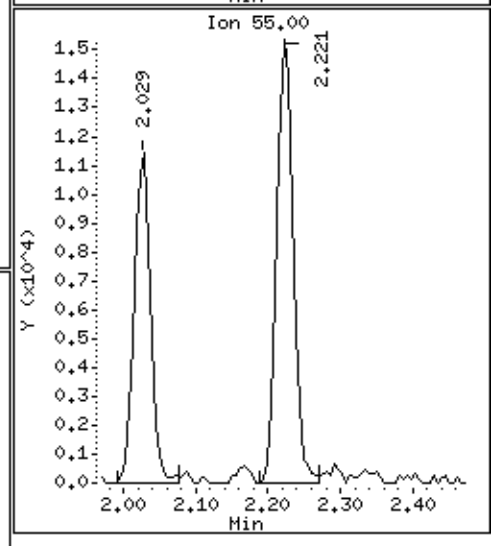












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

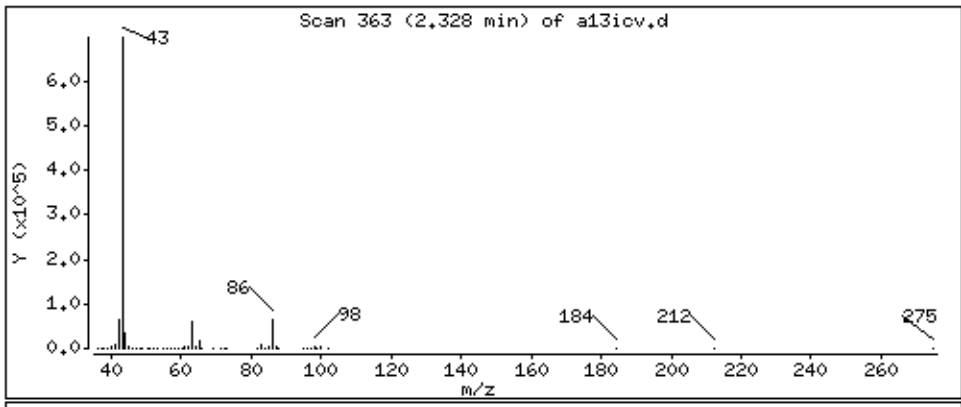
Column phase: DB-624

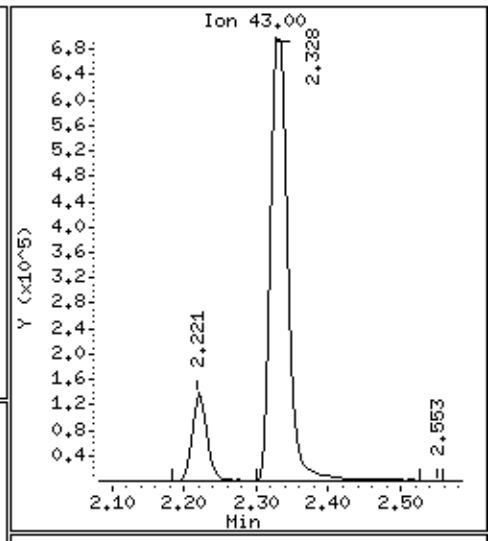
Column diameter: 0.18

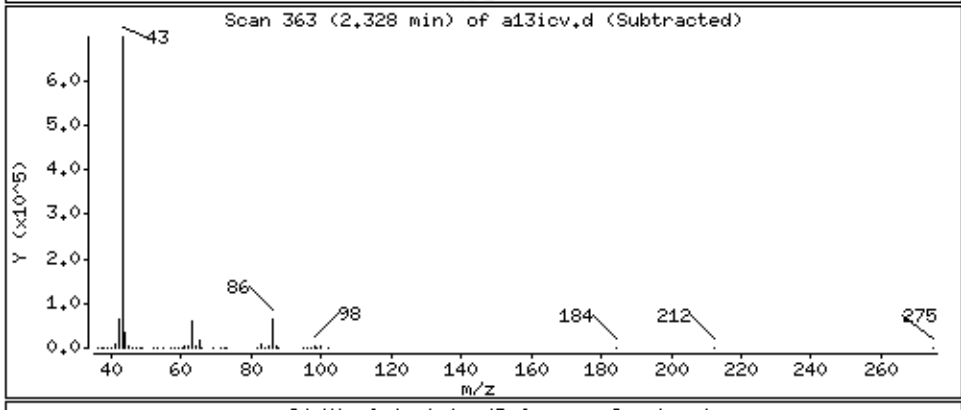
24 Vinyl Acetate

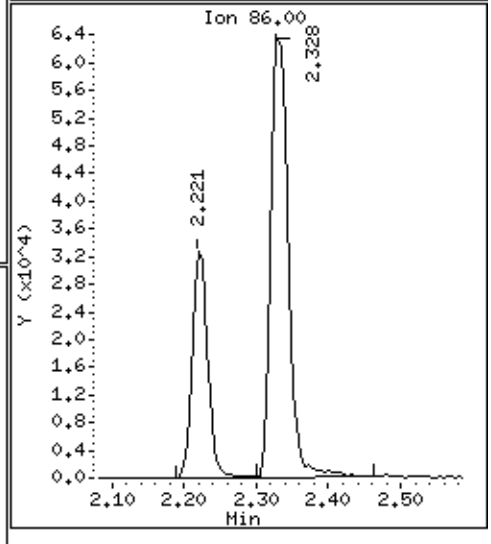
Concentration: 217 ppb

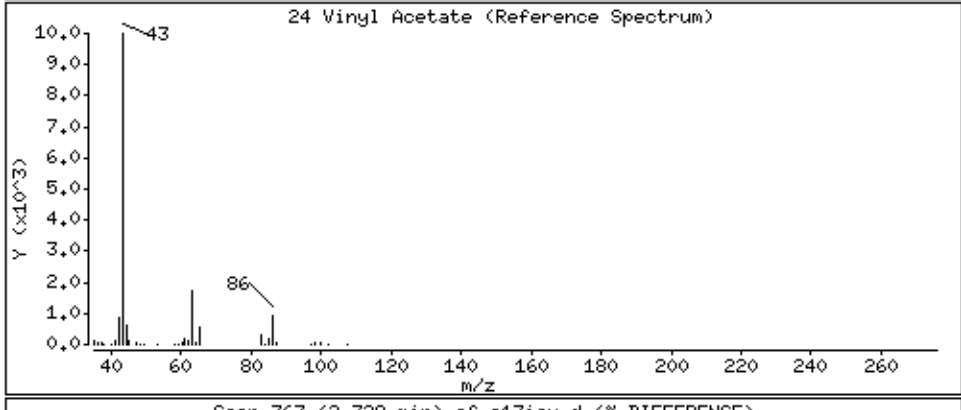
Review Code:

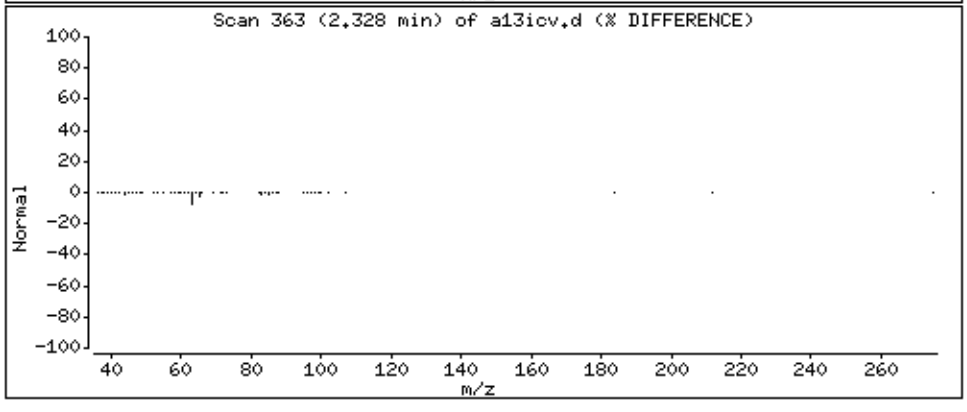












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

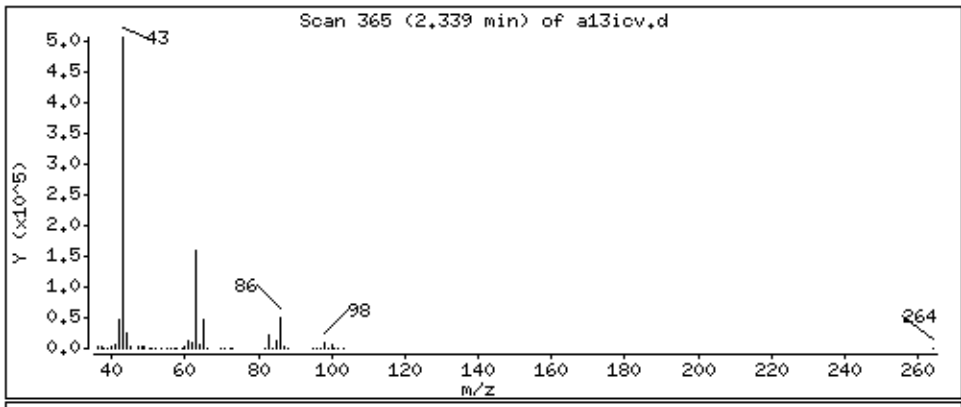
Column phase: DB-624

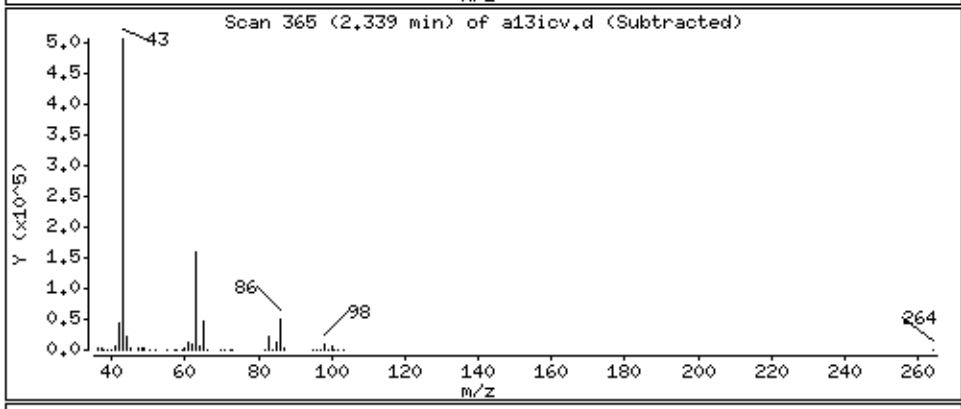
Column diameter: 0.18

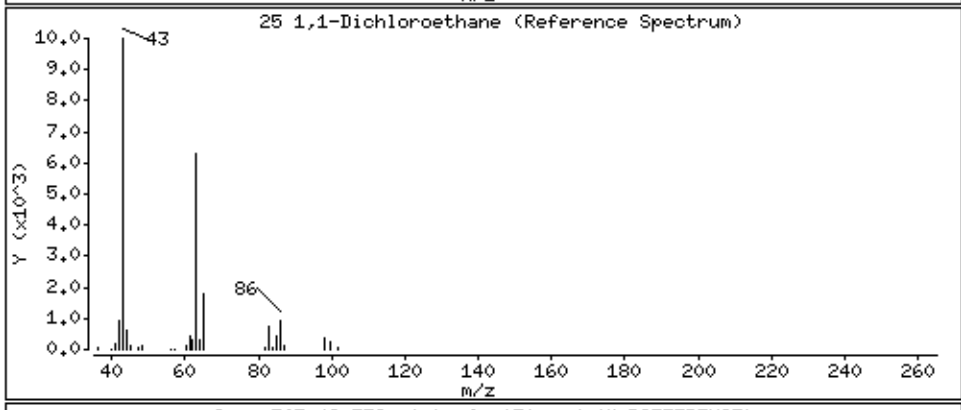
25 1,1-Dichloroethane

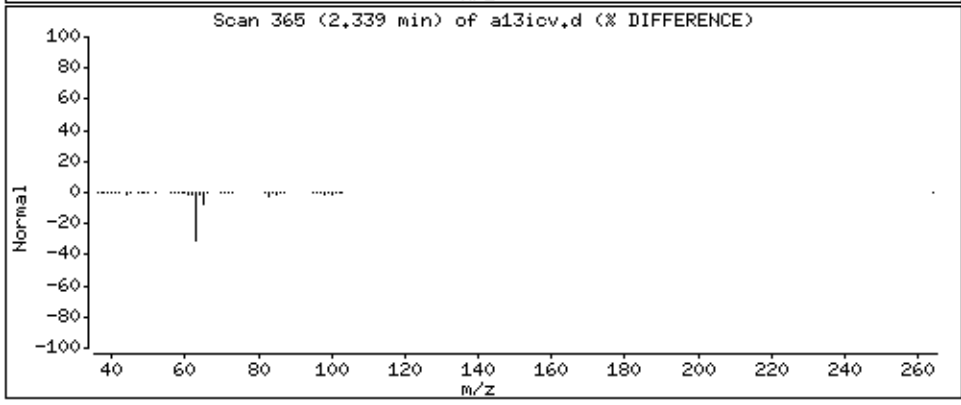
Concentration: 46.6 ppb

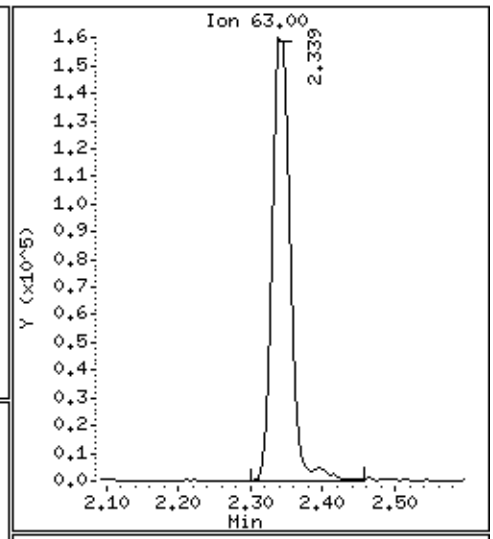
Review Code:

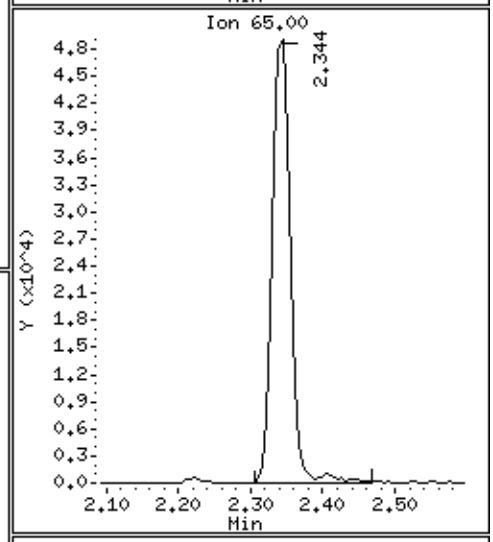


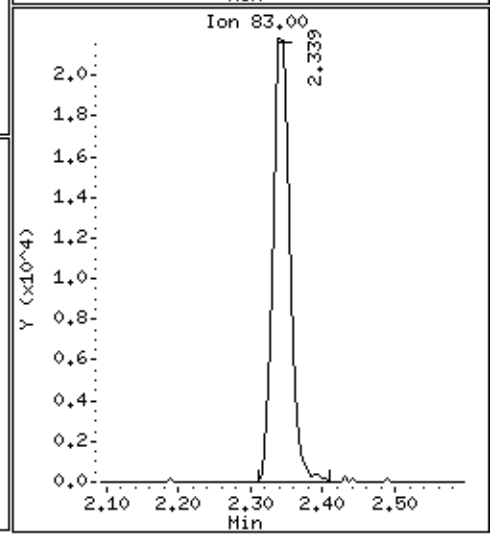












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

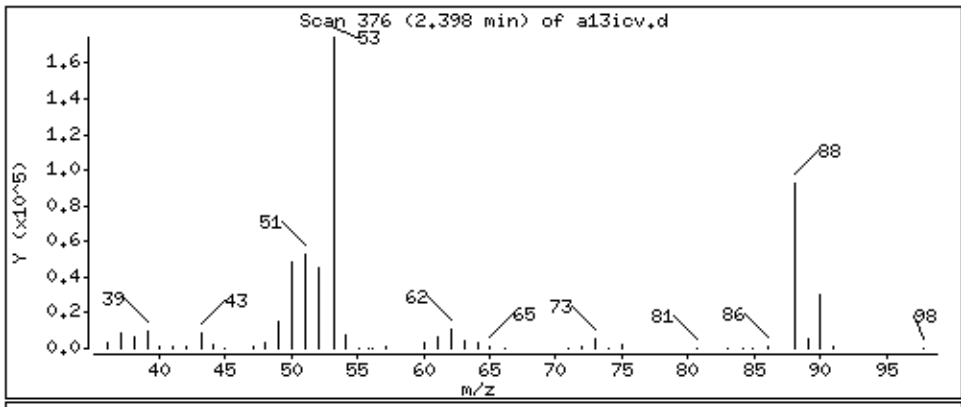
Column phase: DB-624

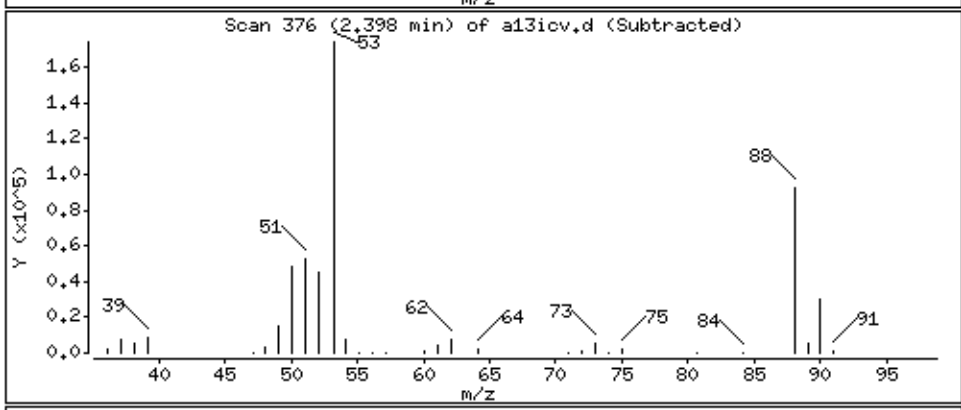
Column diameter: 0.18

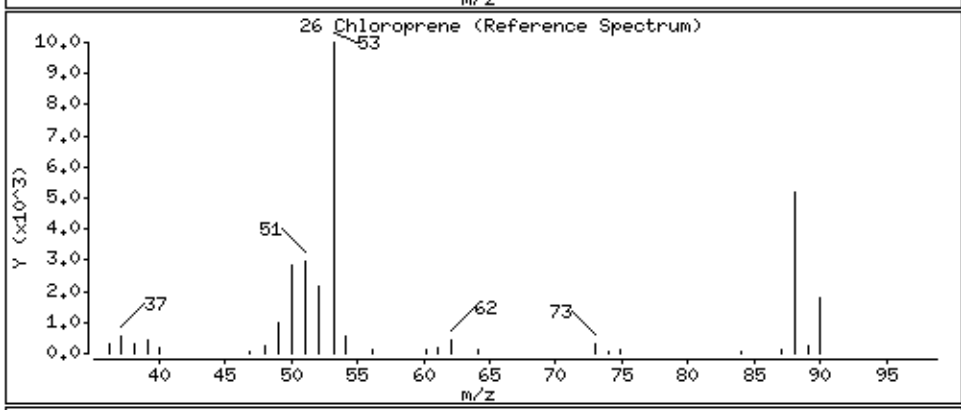
26 Chloroprene

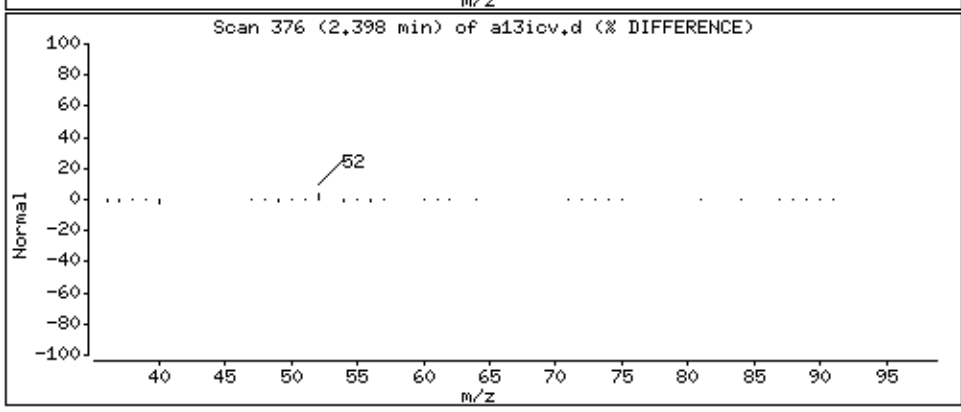
Concentration: 52.0 ppb

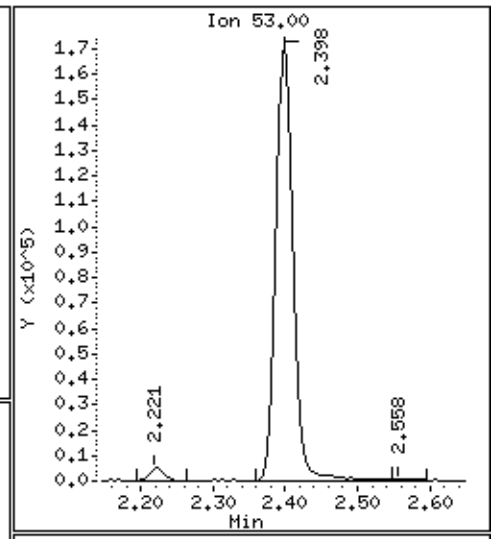
Review Code:

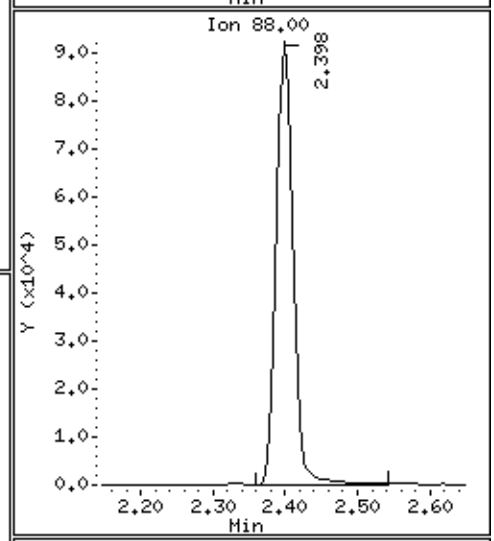


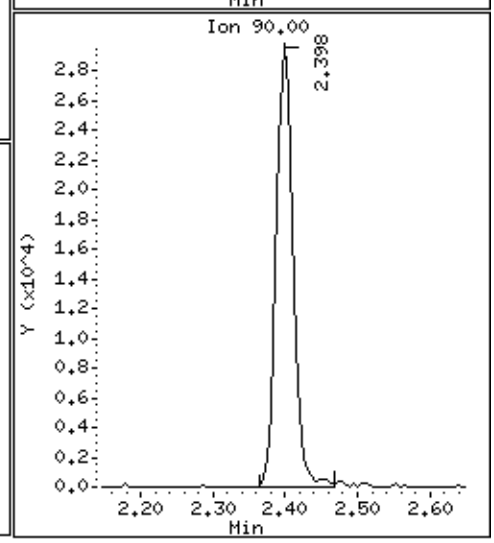












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

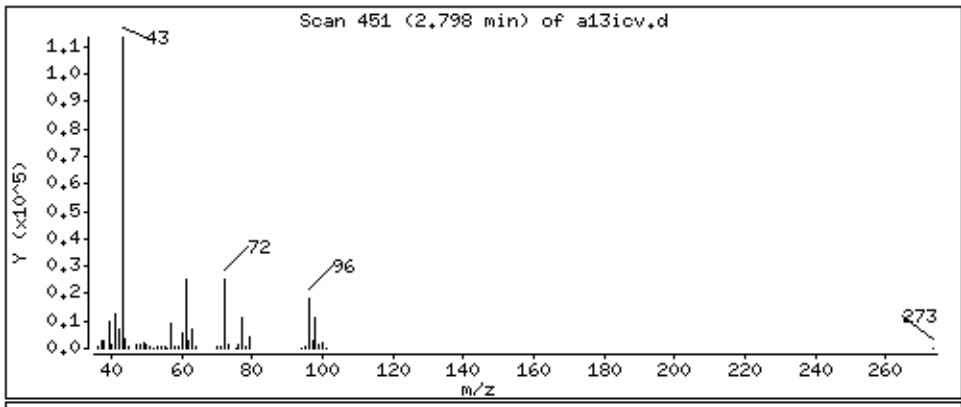
Column phase: DB-624

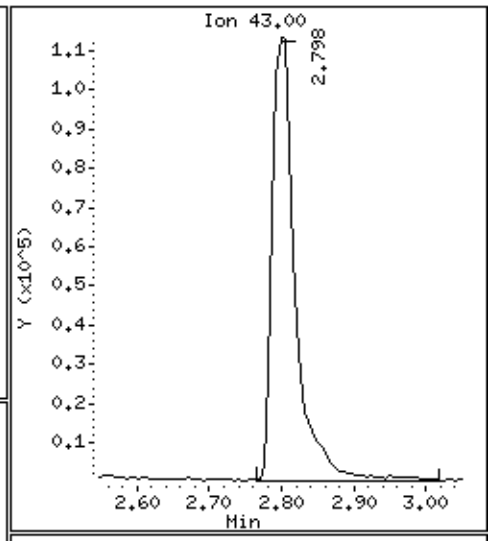
Column diameter: 0.18

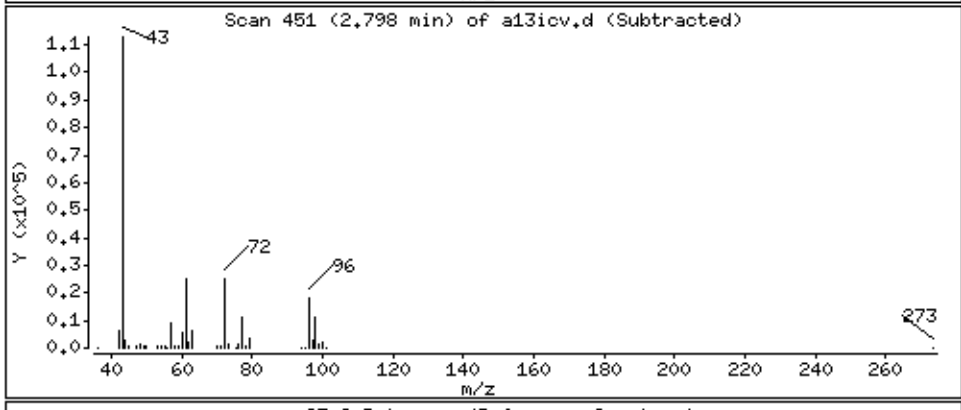
27 2-Butanone

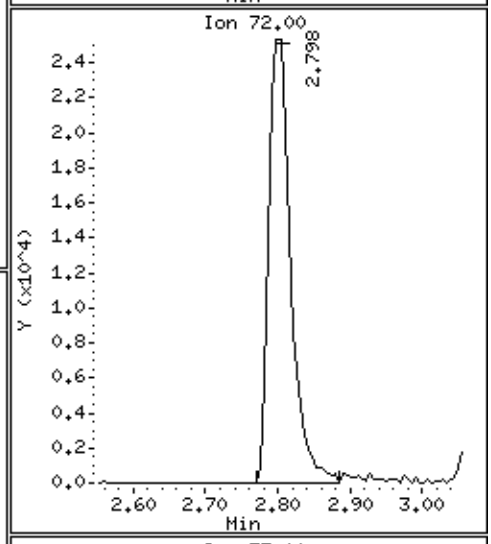
Concentration: 228 ppb

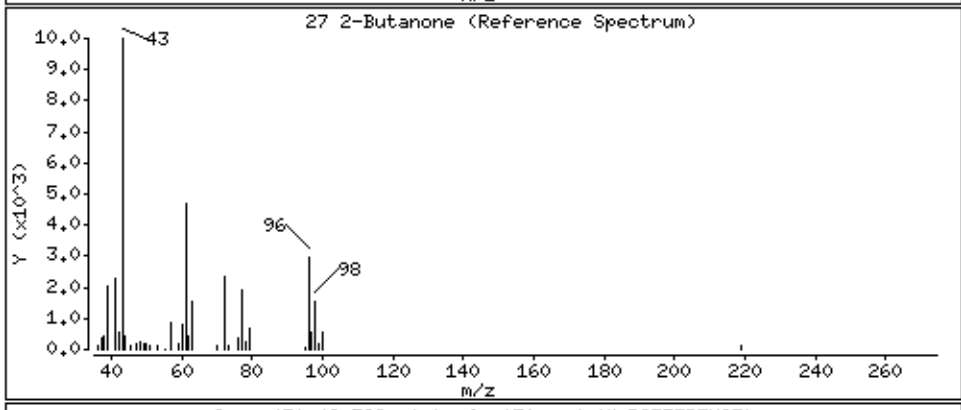
Review Code:

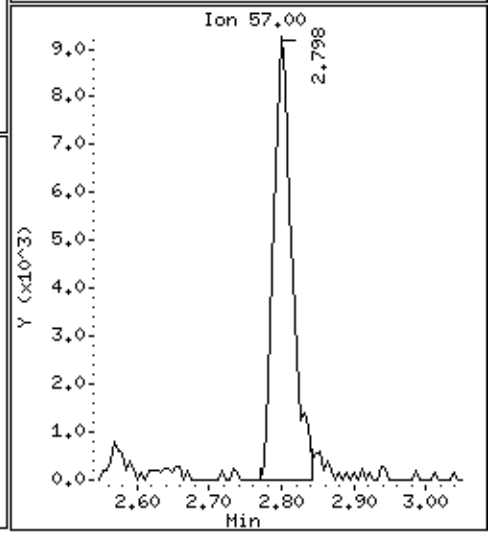


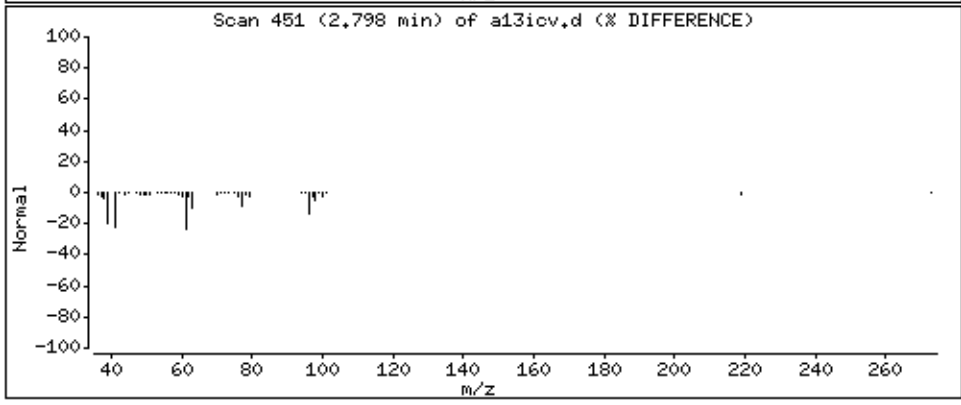












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

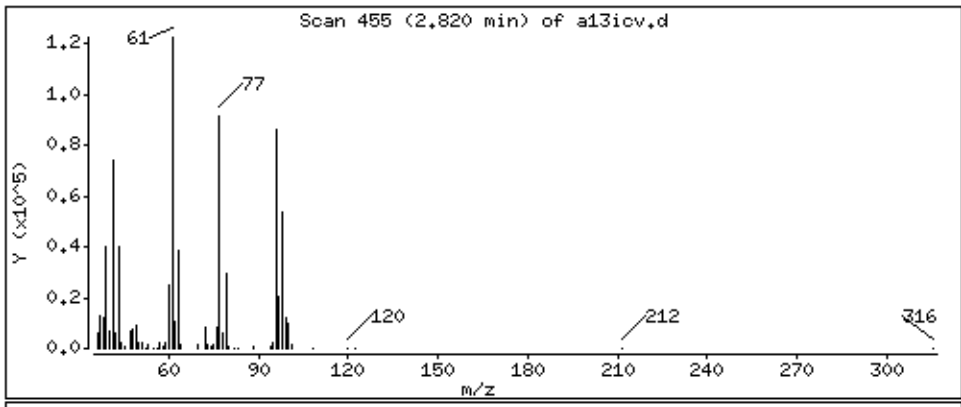
Column phase: DB-624

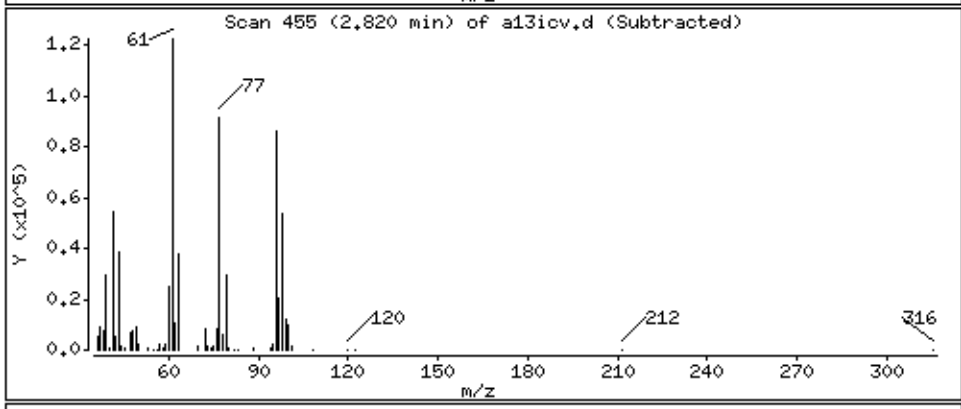
Column diameter: 0.18

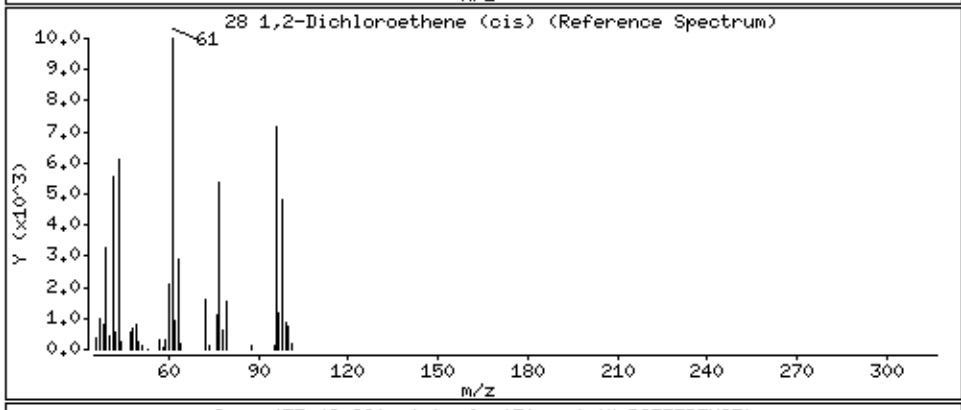
28 1,2-Dichloroethene (cis)

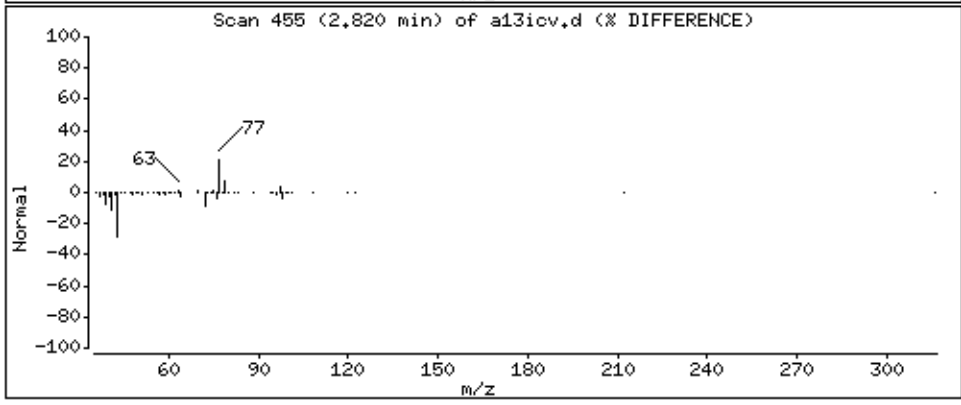
Concentration: 49.8 ppb

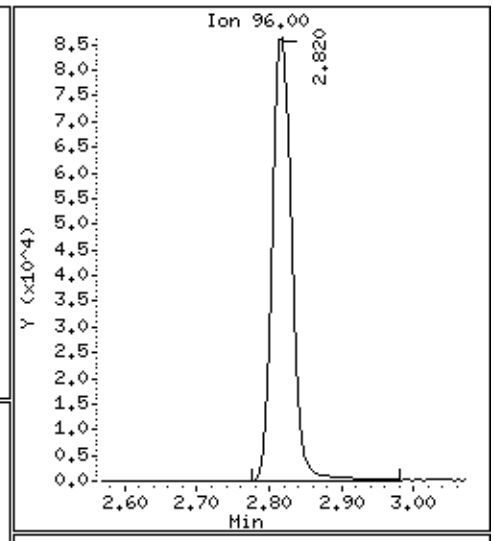
Review Code:

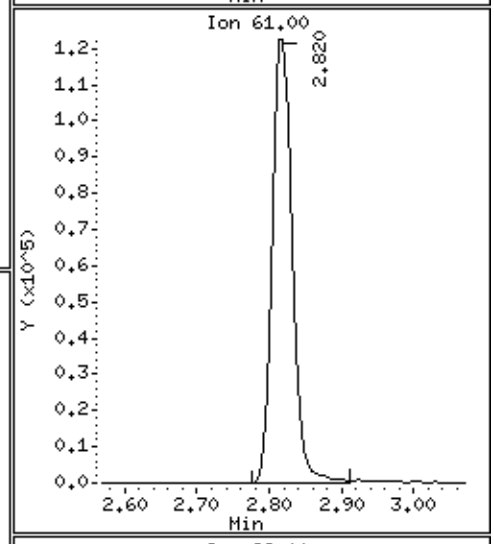


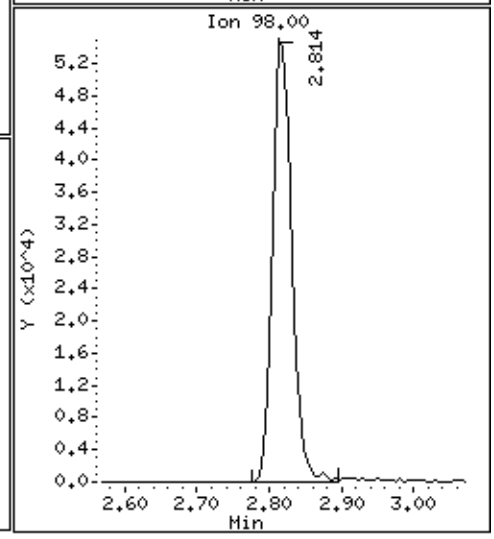












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

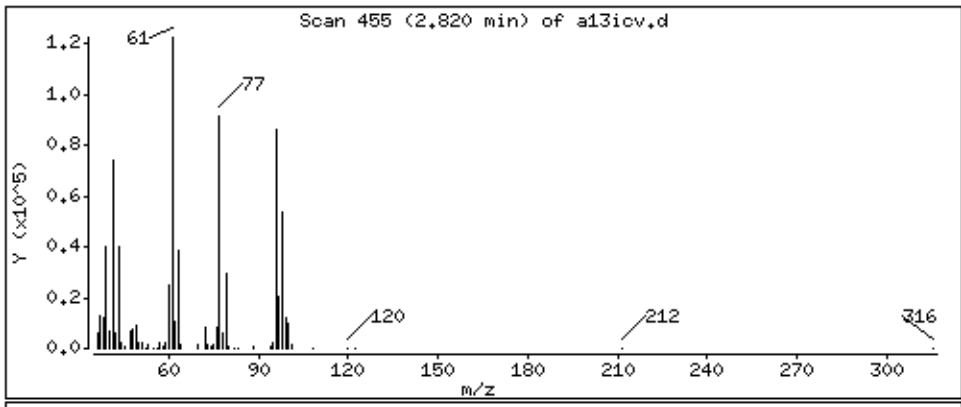
Column phase: DB-624

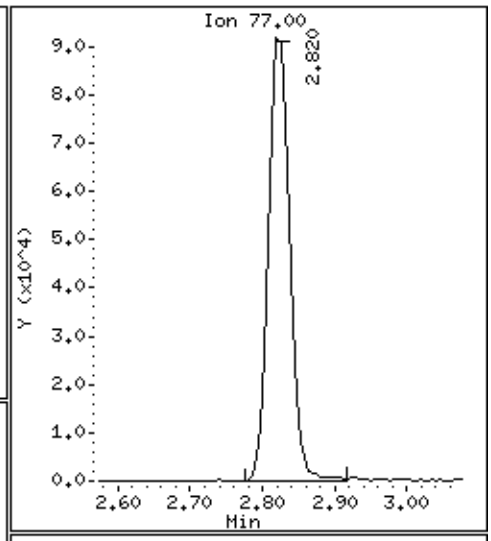
Column diameter: 0.18

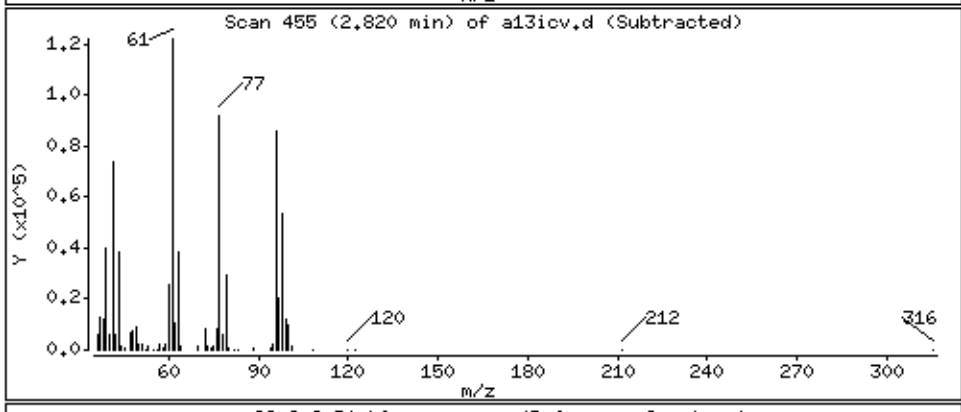
29 2,2-Dichloropropane

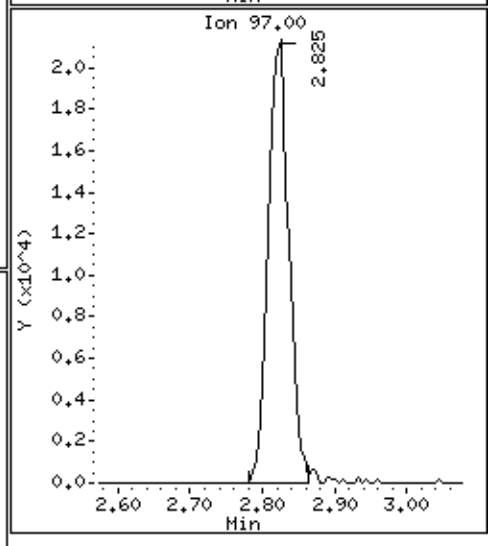
Concentration: 51.7 ppb

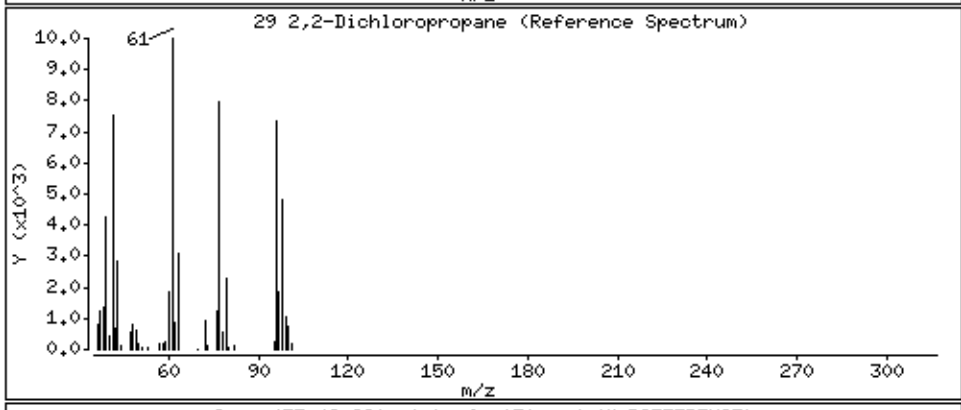
Review Code:

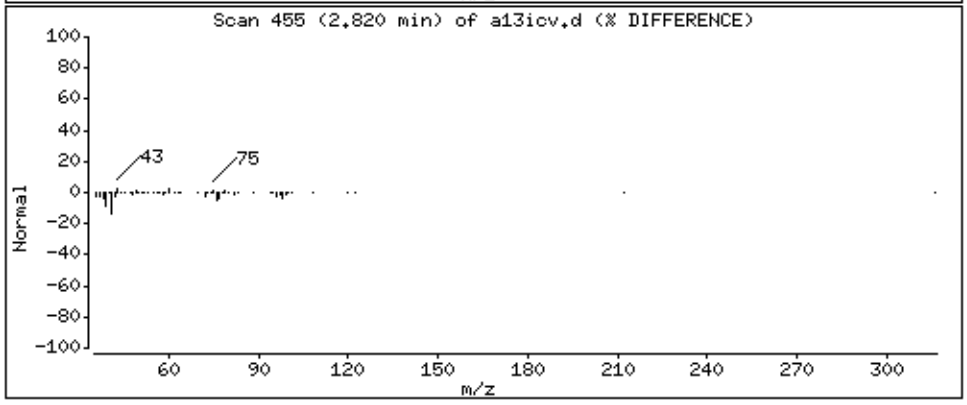












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

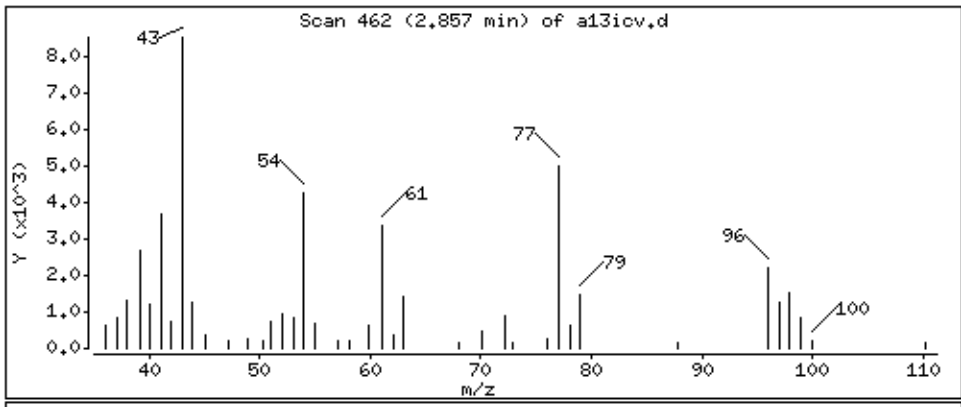
Column phase: DB-624

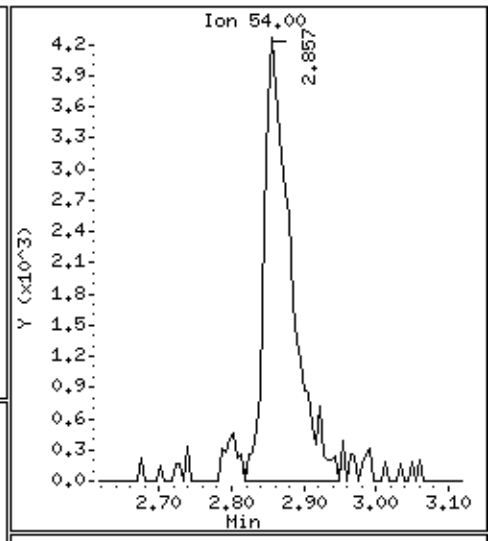
Column diameter: 0.18

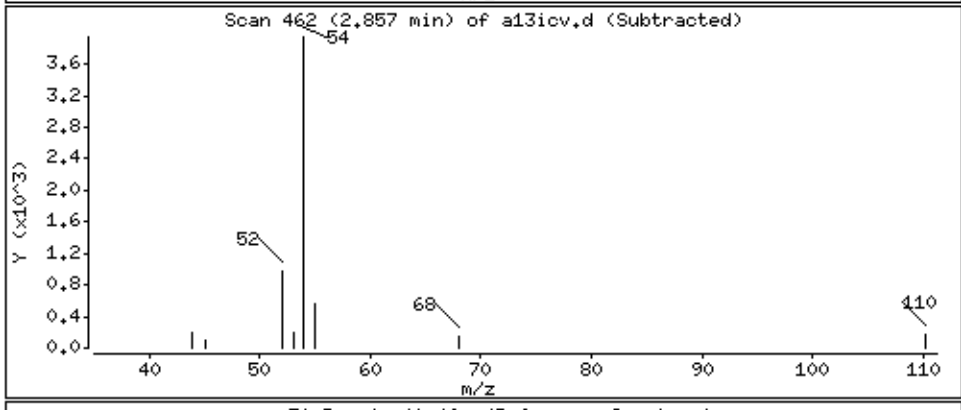
30 Propionitrile

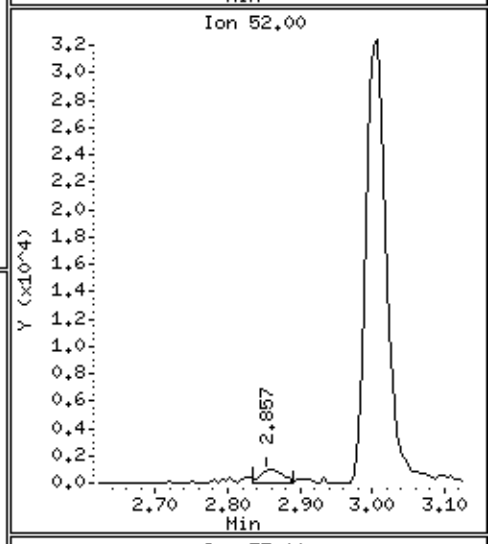
Concentration: 44.6 ppb

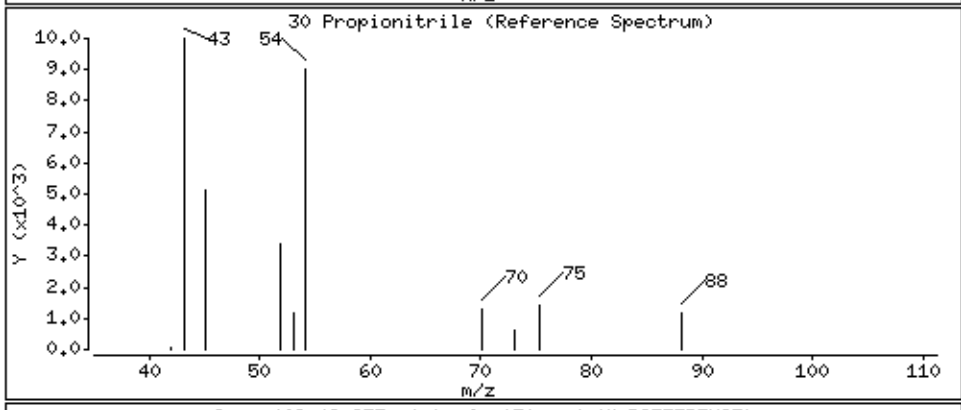
Review Code:

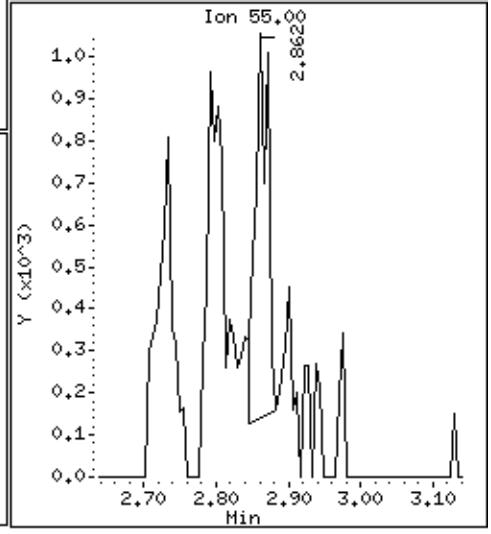


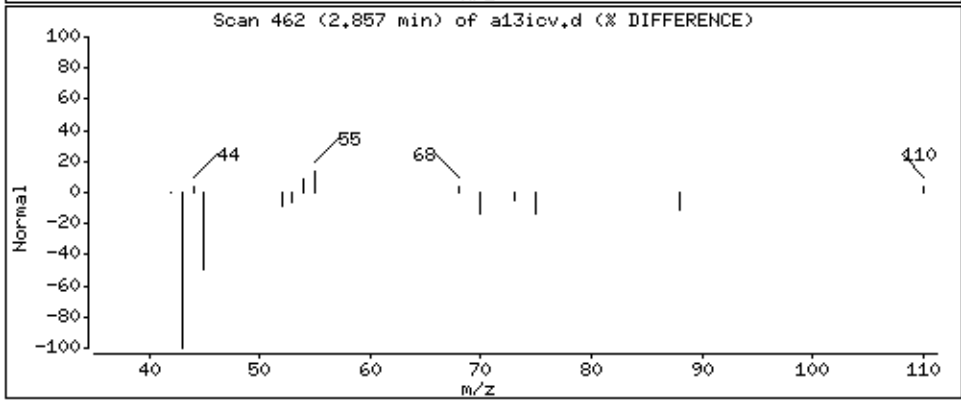












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 35

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

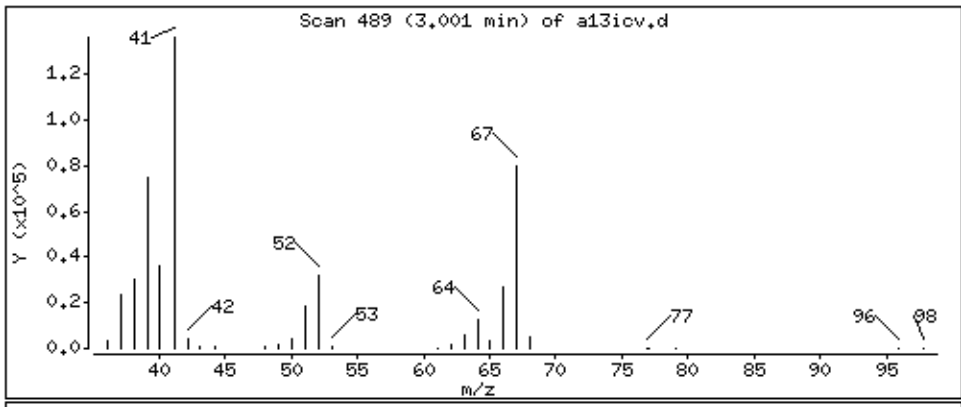
Column phase: DB-624

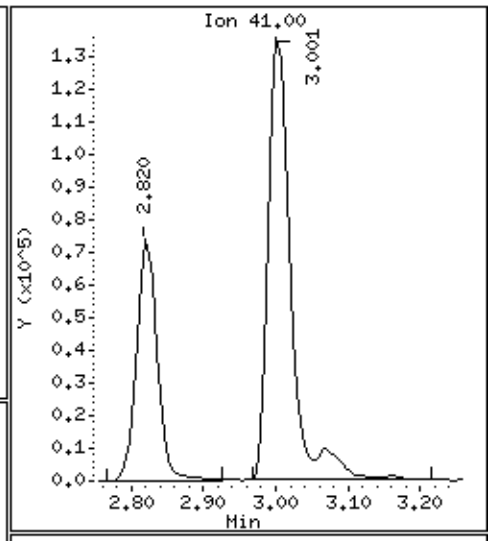
Column diameter: 0.18

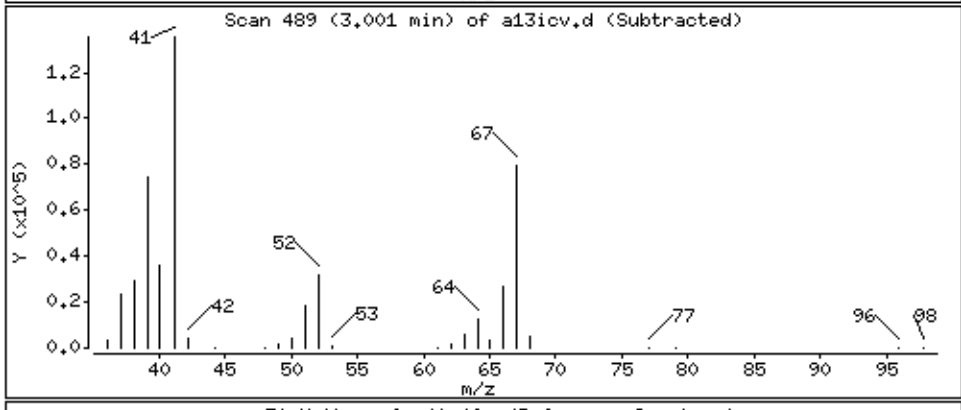
31 Methacrylonitrile

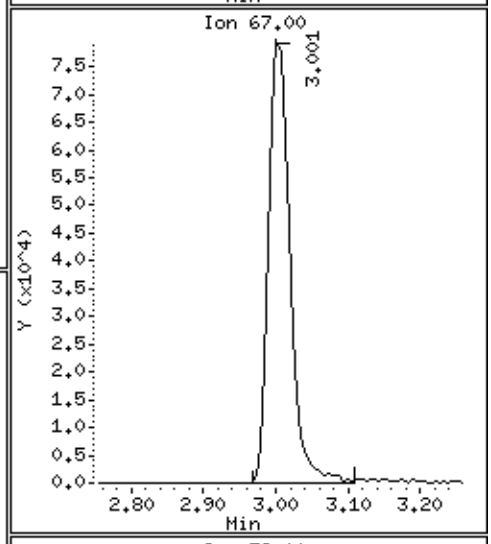
Concentration: 194 ppb

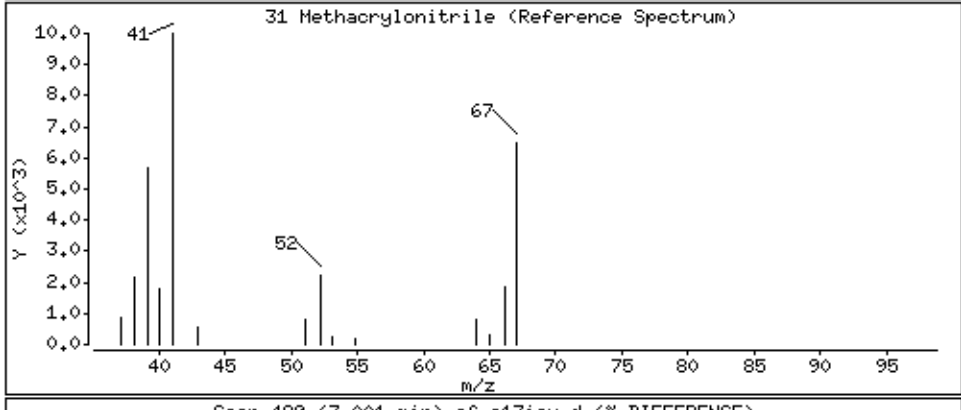
Review Code:

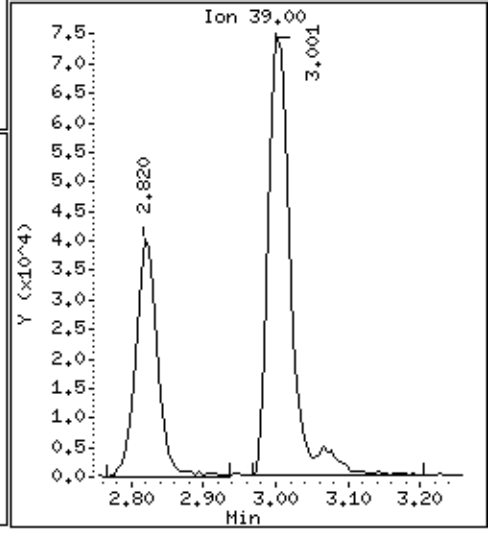


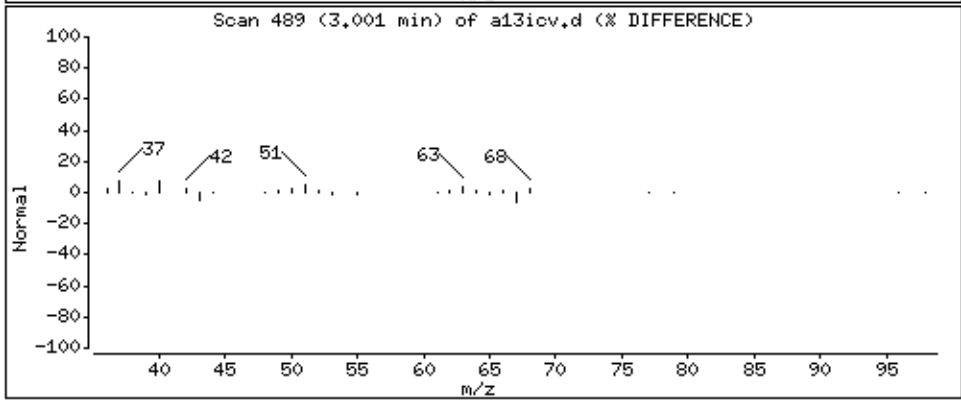












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

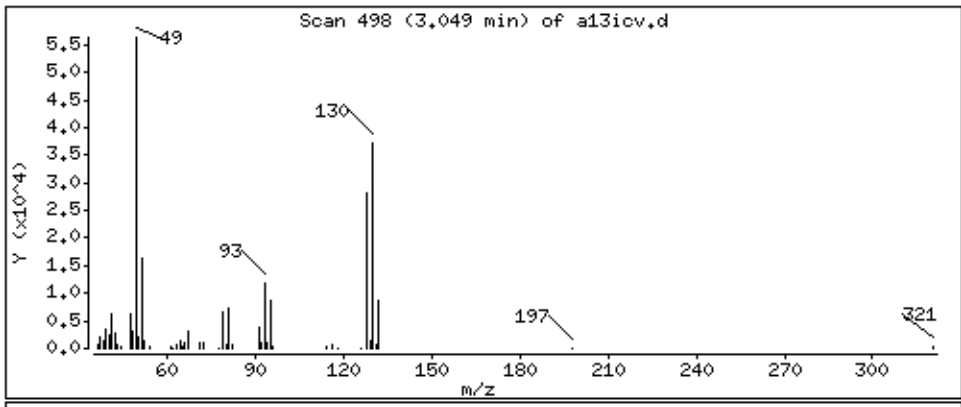
Column phase: DB-624

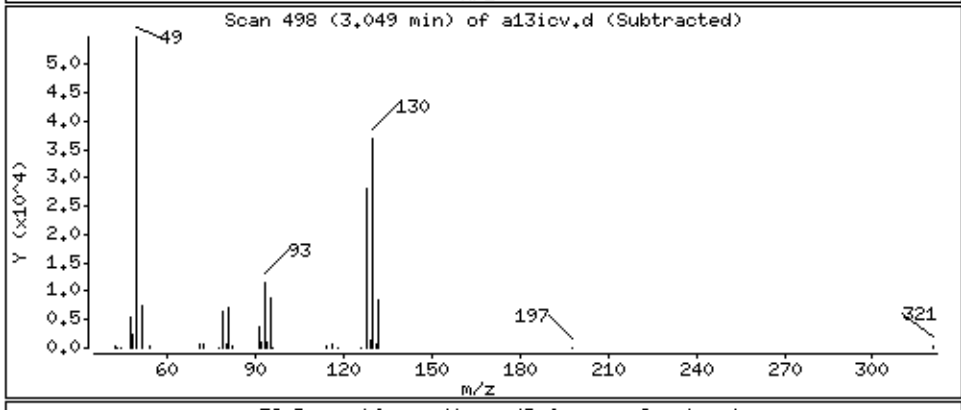
Column diameter: 0.18

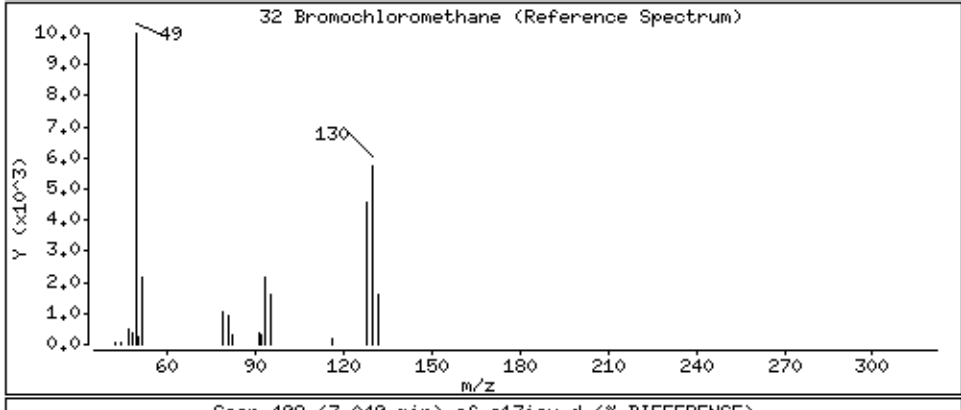
32 Bromochloromethane

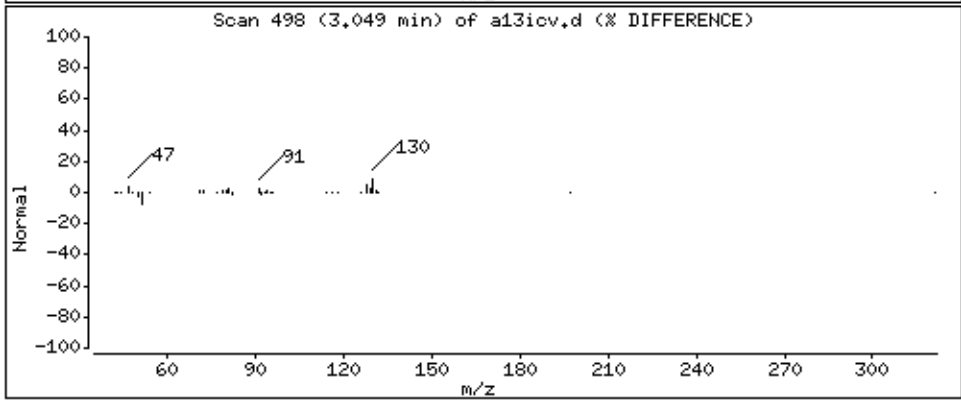
Concentration: 47.2 ppb

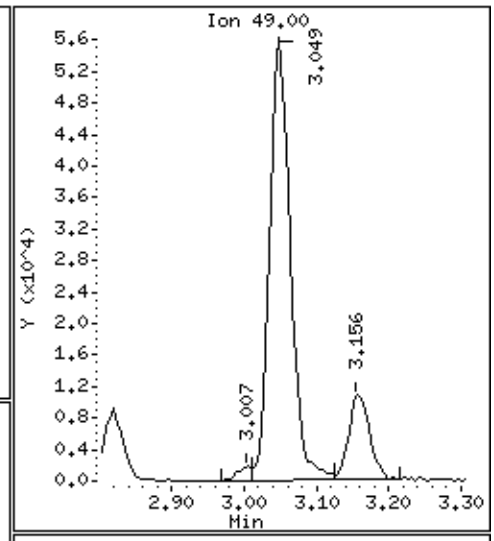
Review Code:

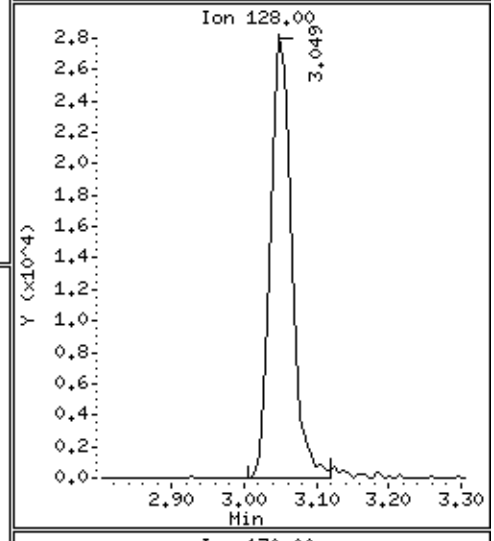


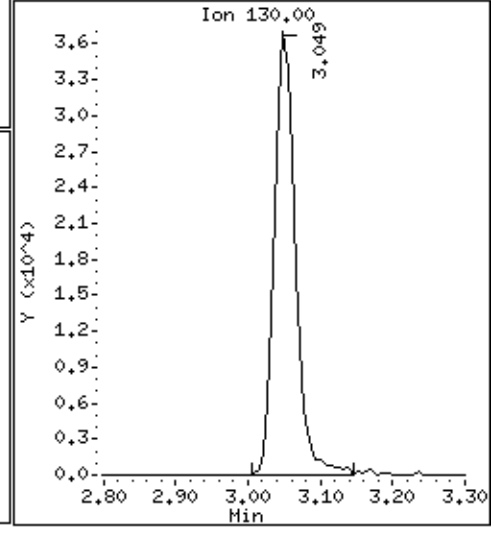












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

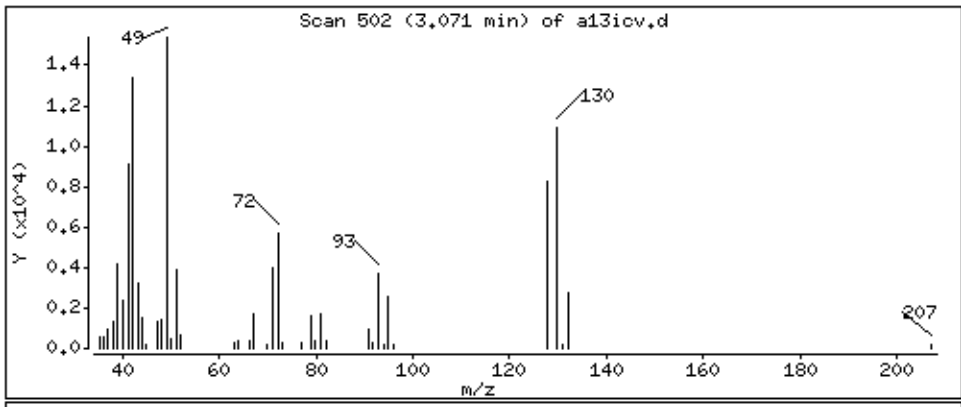
Column phase: DB-624

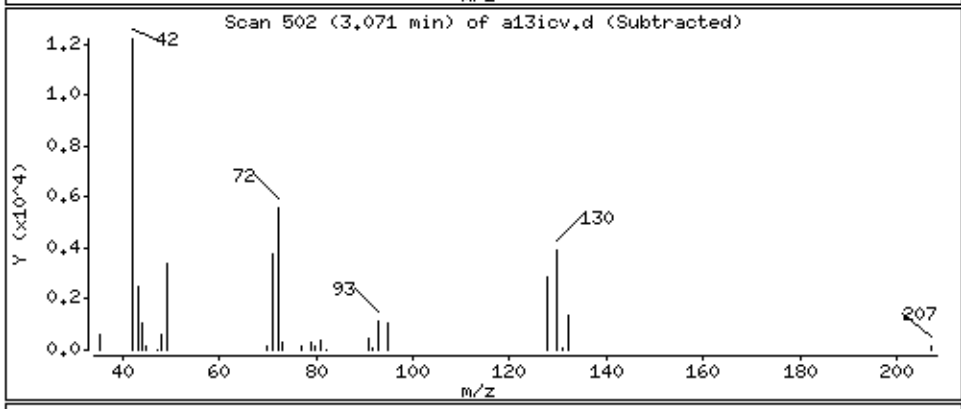
Column diameter: 0.18

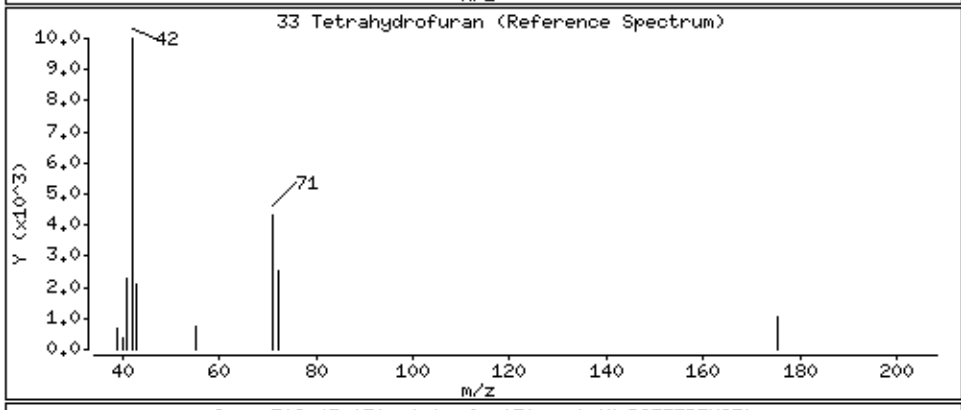
33 Tetrahydrofuran

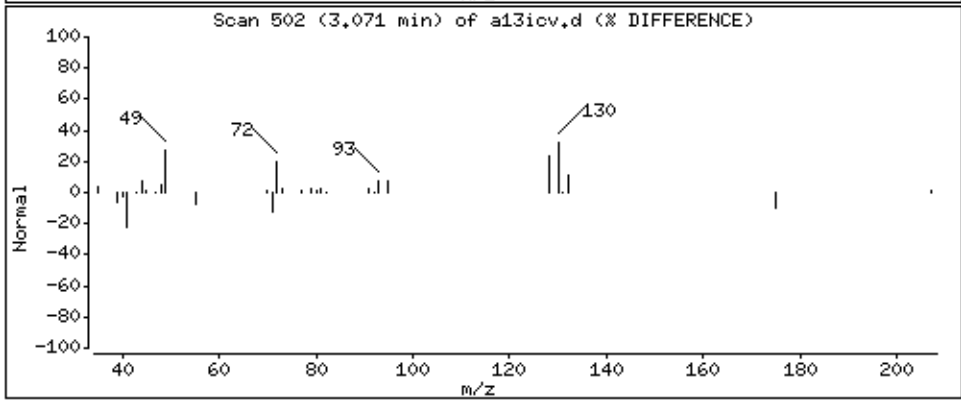
Concentration: 38.0 ppb

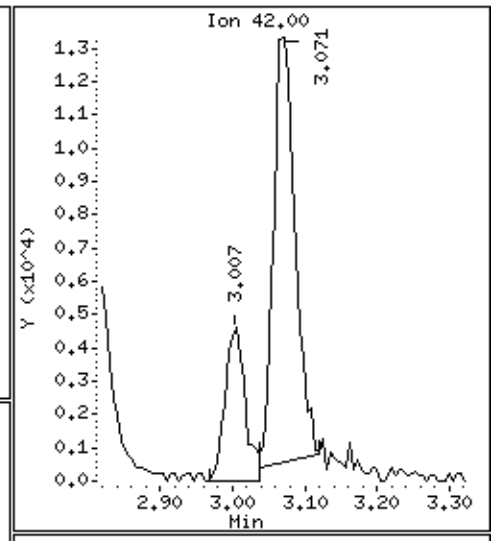
Review Code:

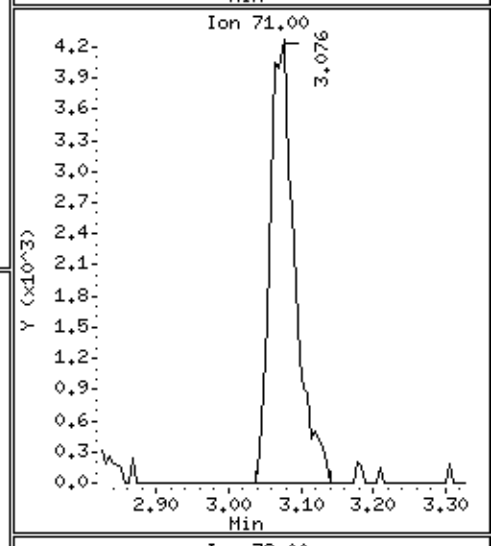


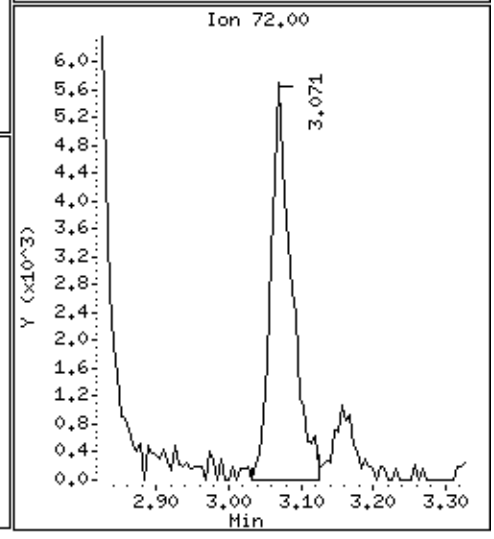












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

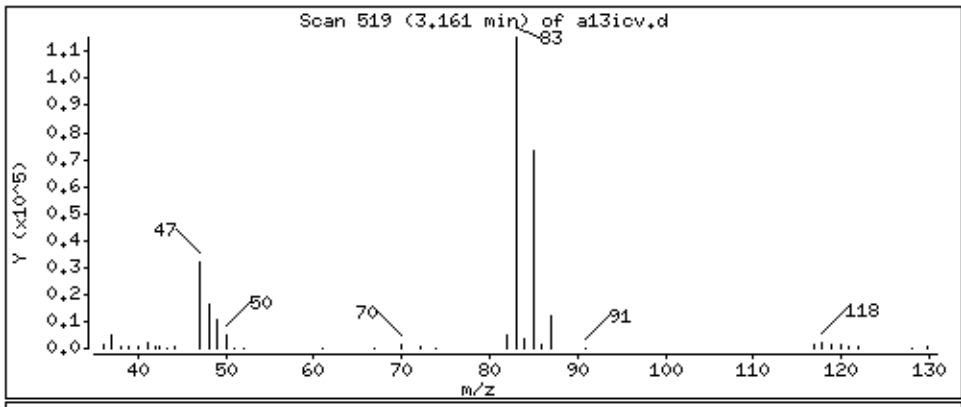
Column phase: DB-624

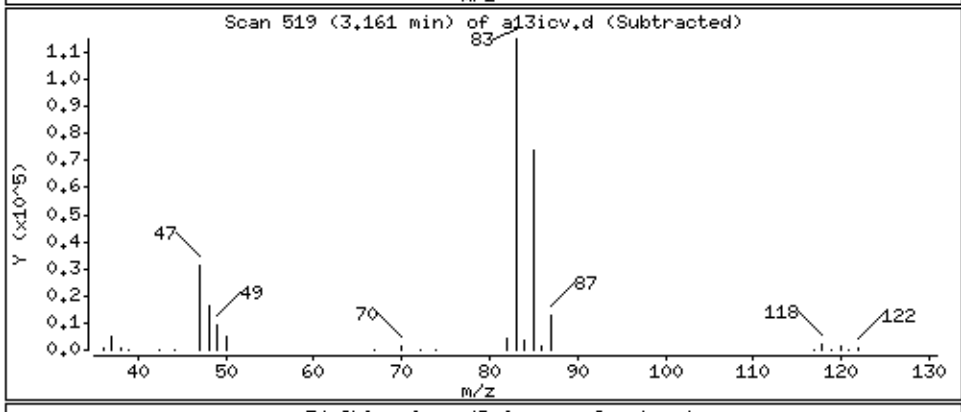
Column diameter: 0.18

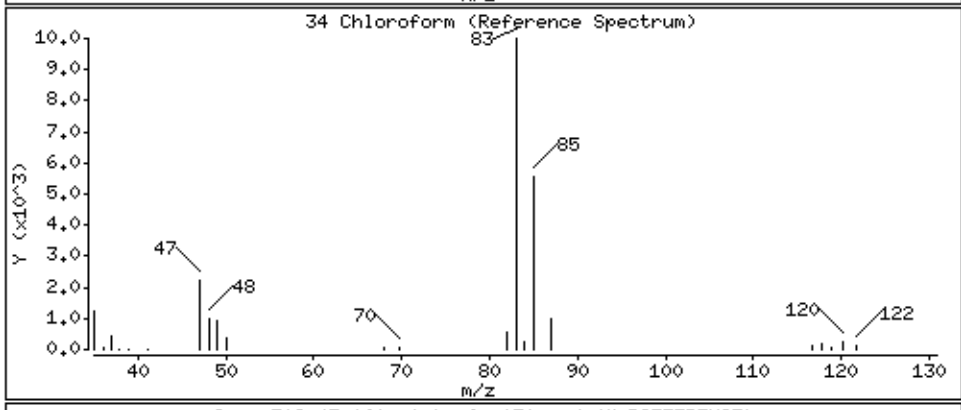
34 Chloroform

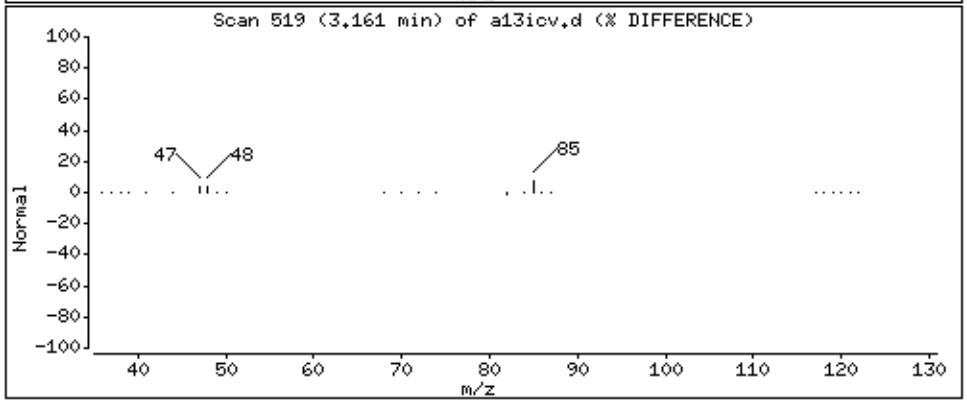
Concentration: 47.8 ppb

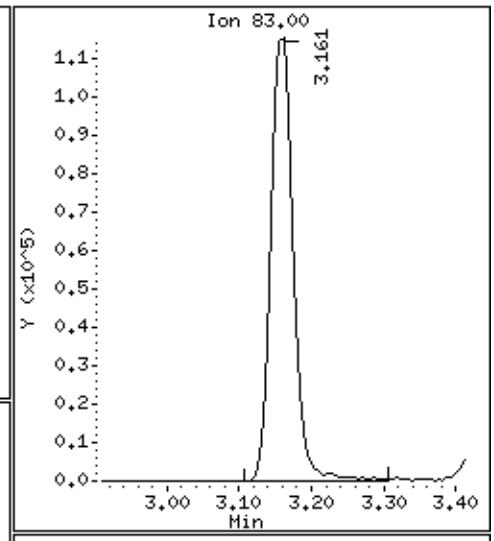
Review Code:

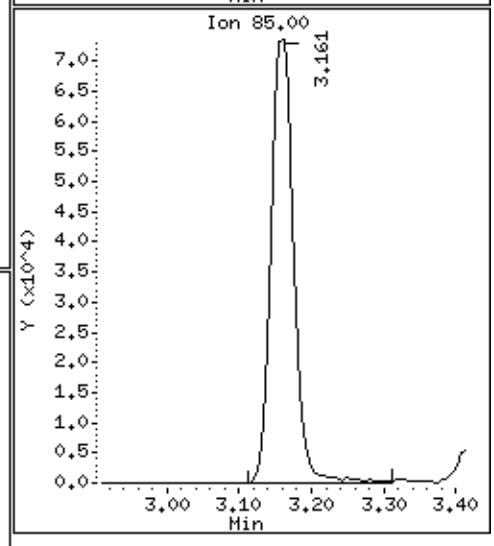












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

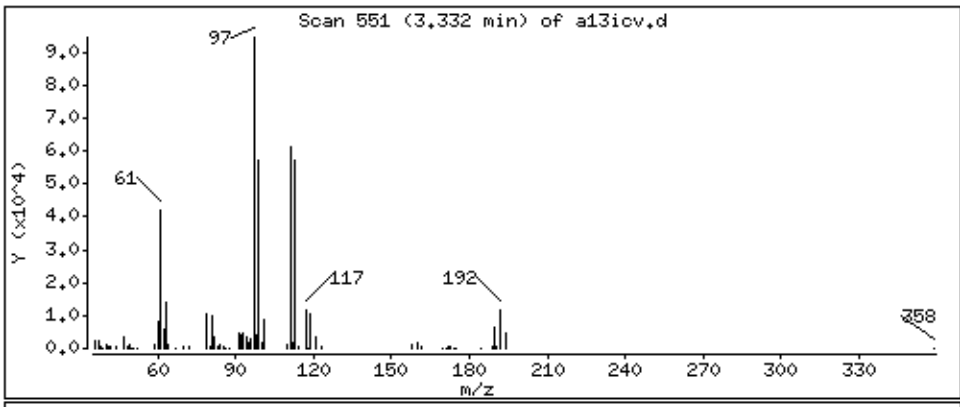
Column phase: DB-624

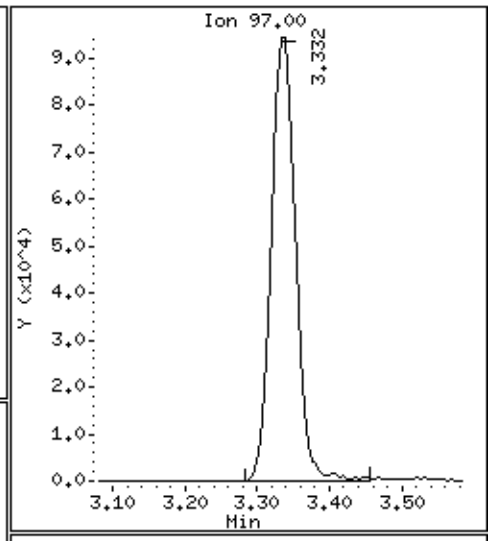
Column diameter: 0.18

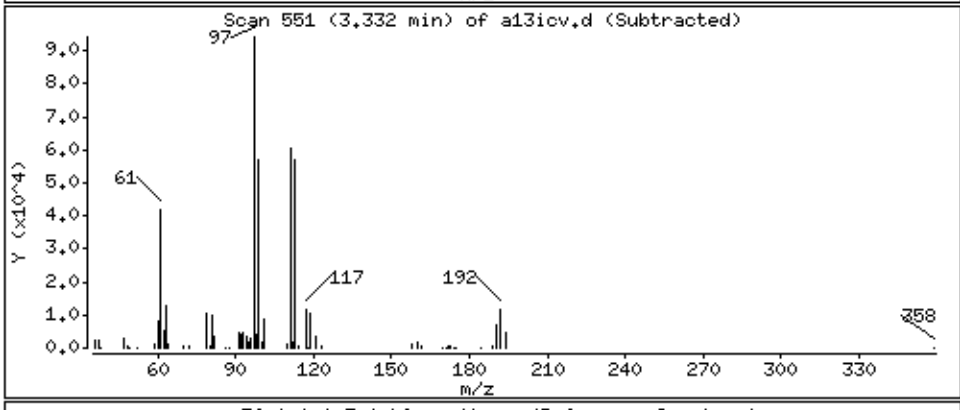
36 1,1,1-Trichloroethane

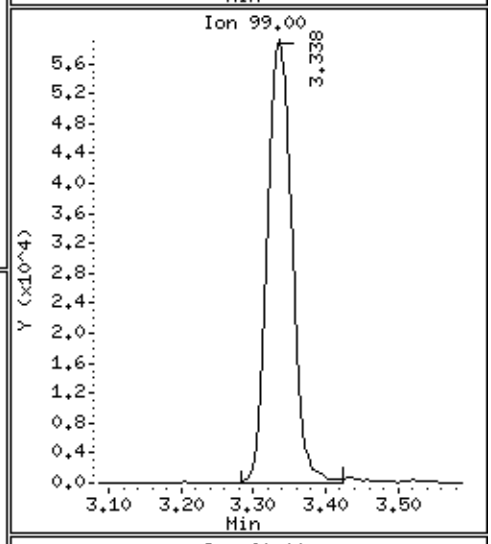
Concentration: 49.6 ppb

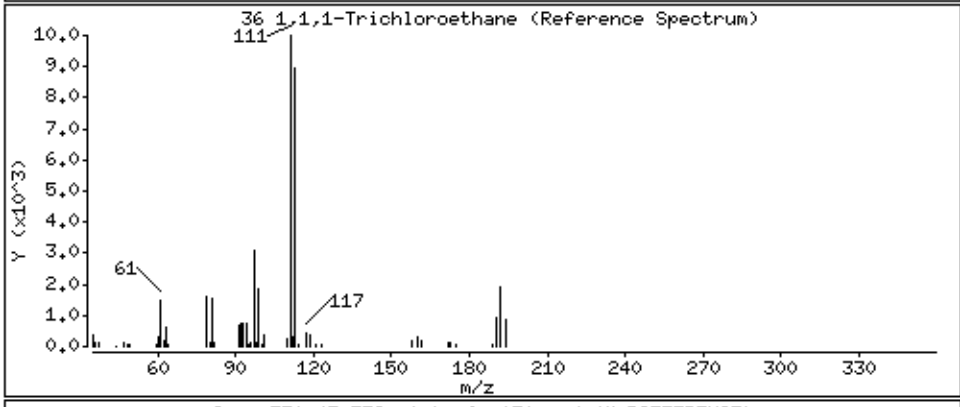
Review Code:

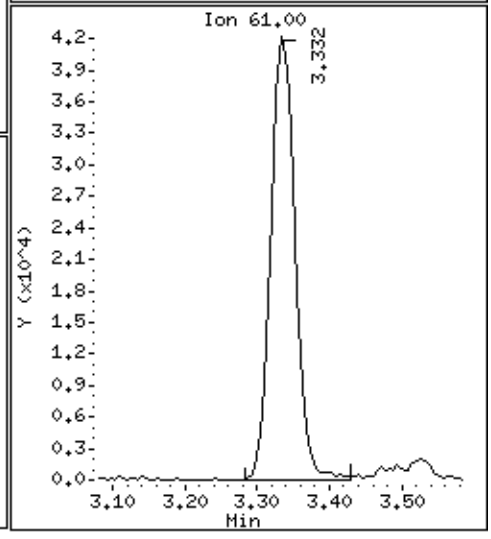


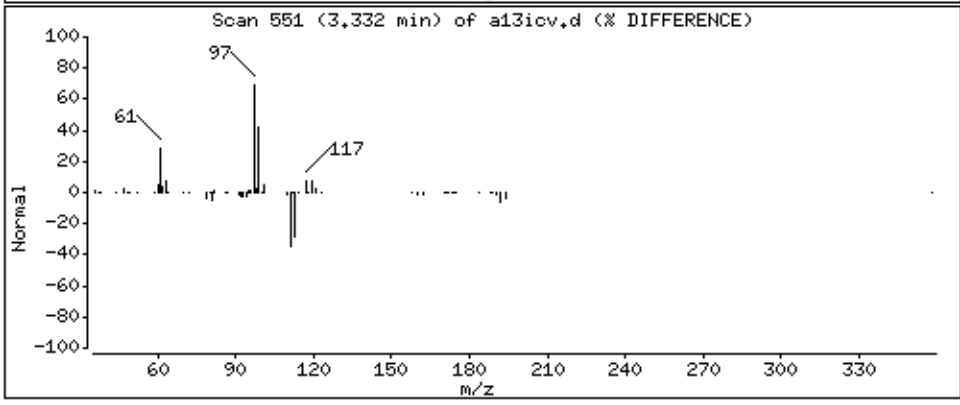












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 40

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

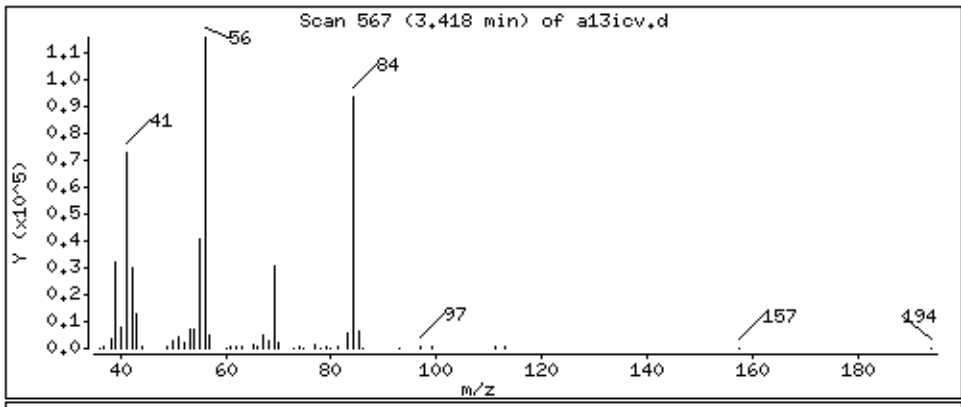
Column phase: DB-624

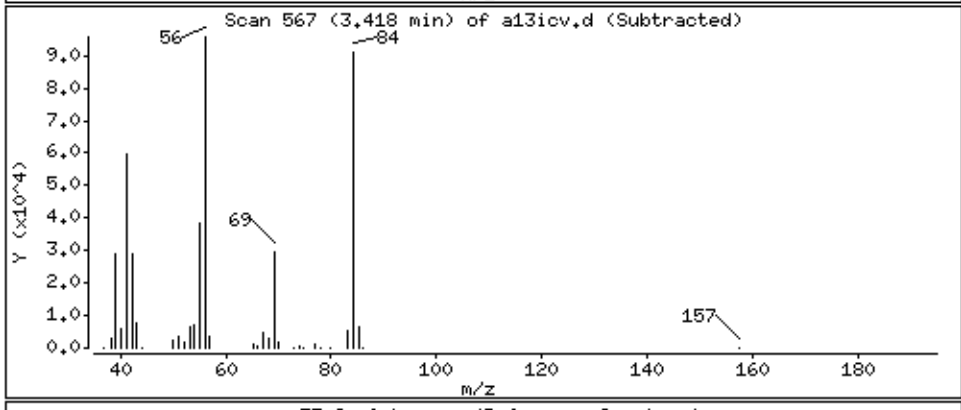
Column diameter: 0.18

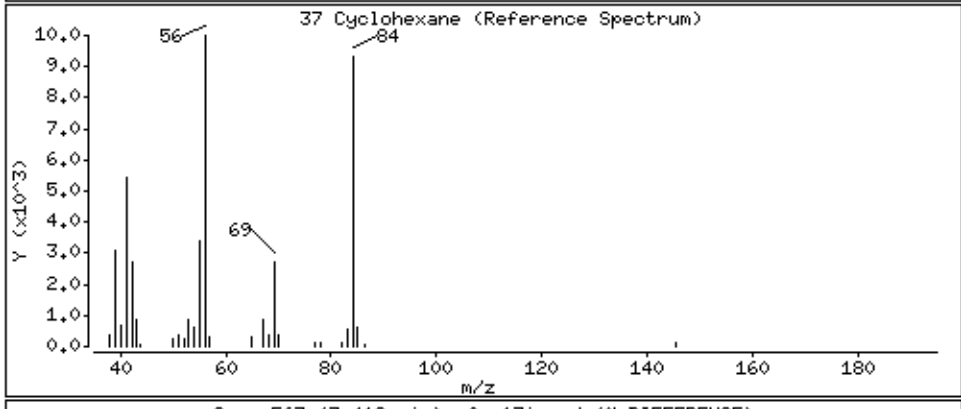
37 Cyclohexane

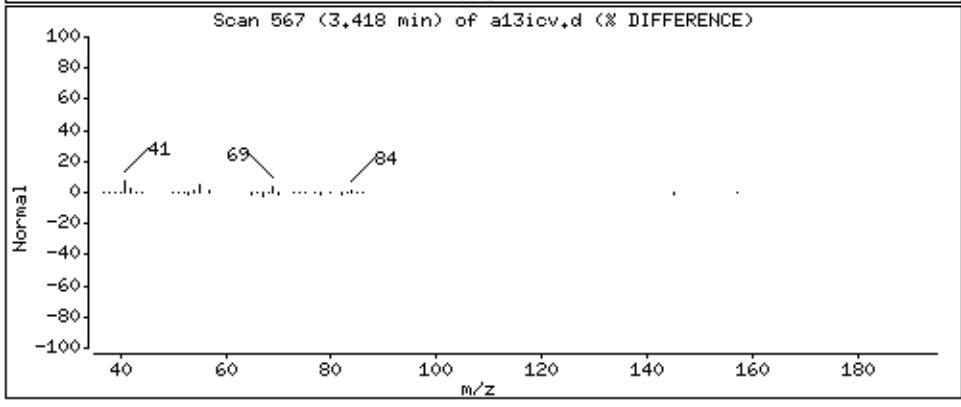
Concentration: 45.9 ppb

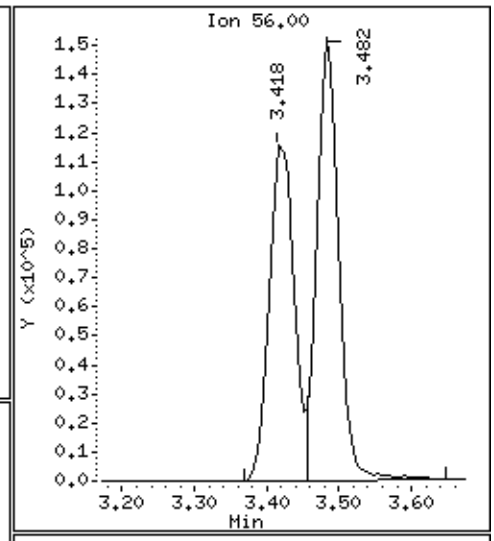
Review Code:

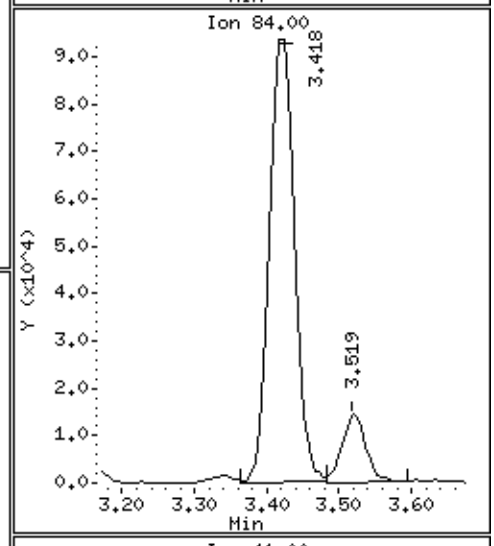


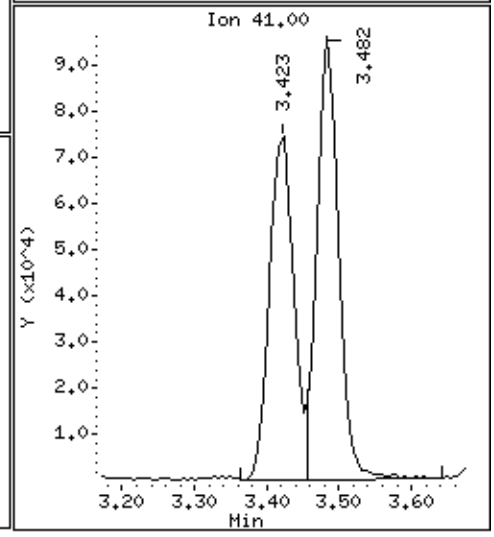












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

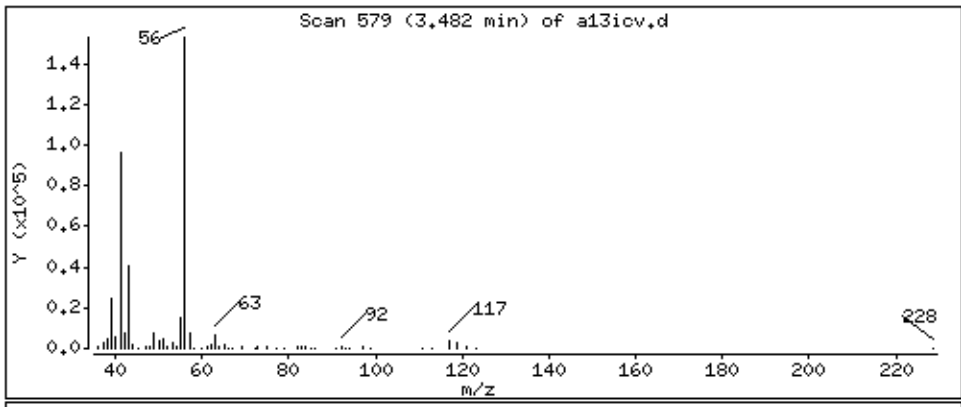
Column phase: DB-624

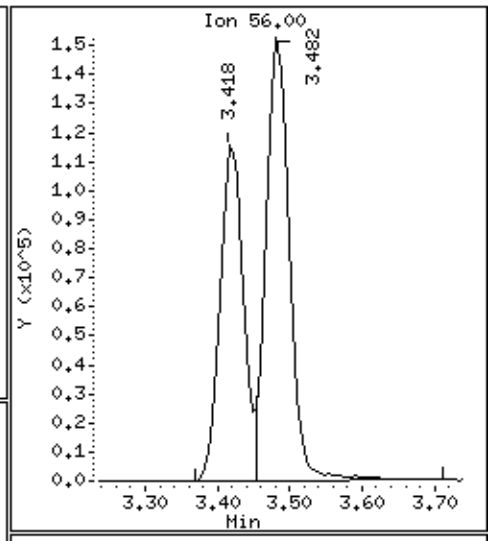
Column diameter: 0.18

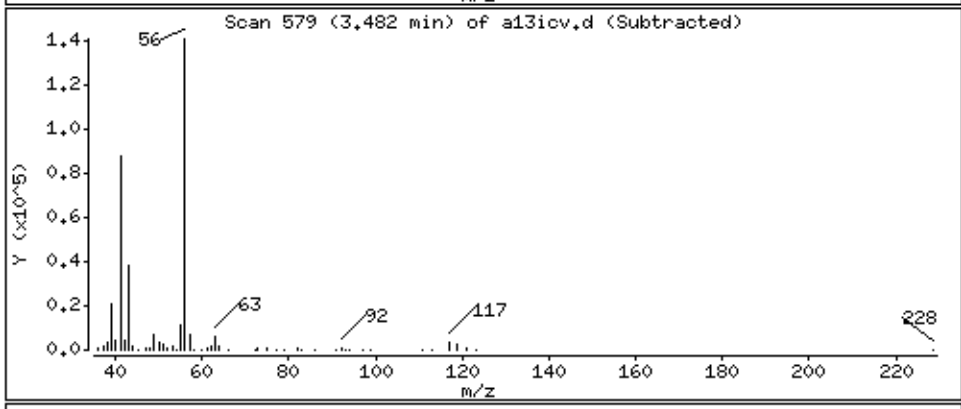
38 n-Butyl chloride

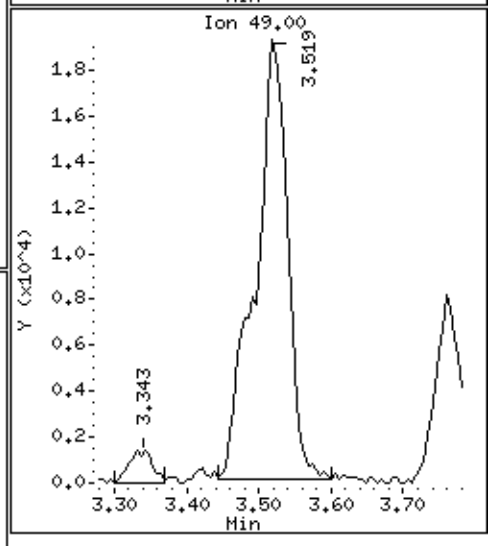
Concentration: 49.4 ppb

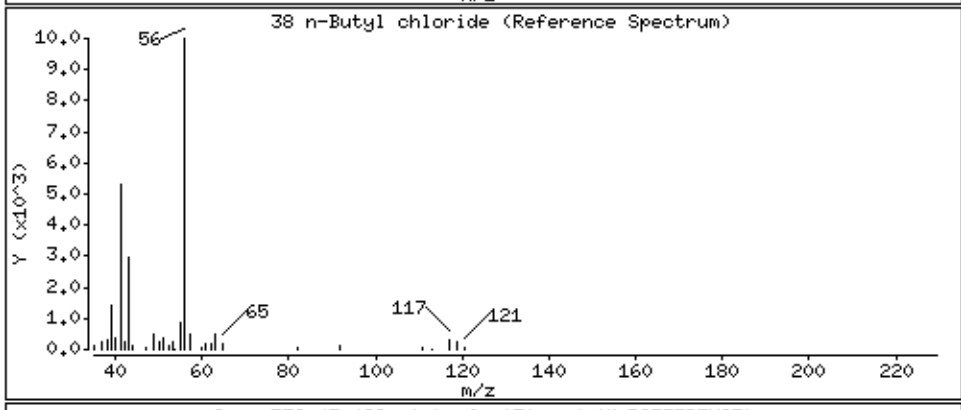
Review Code:

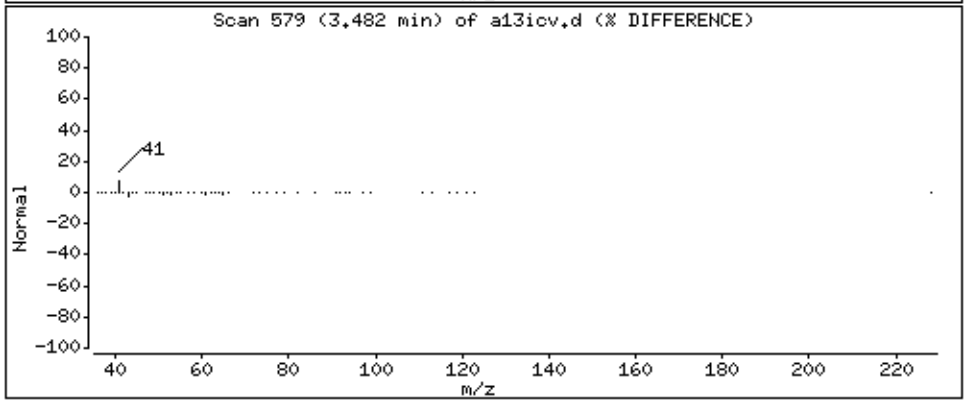












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

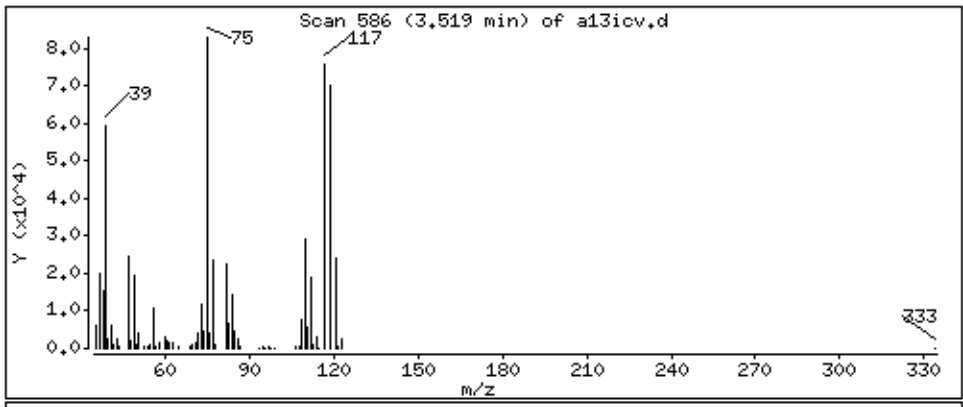
Column phase: DB-624

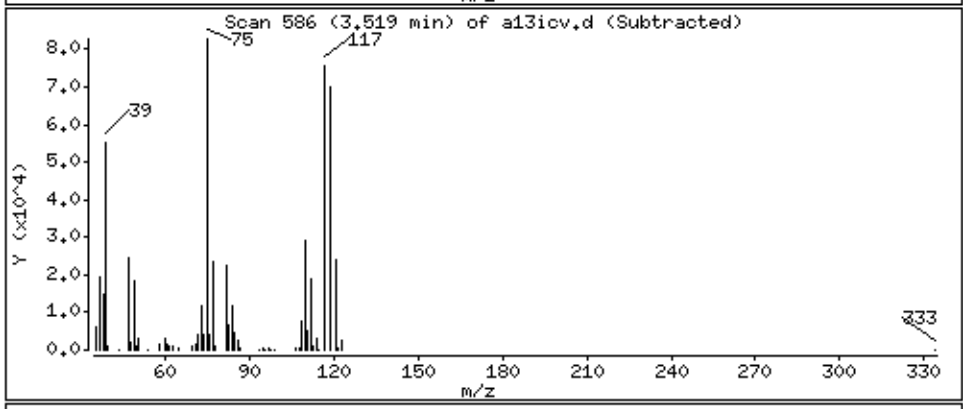
Column diameter: 0.18

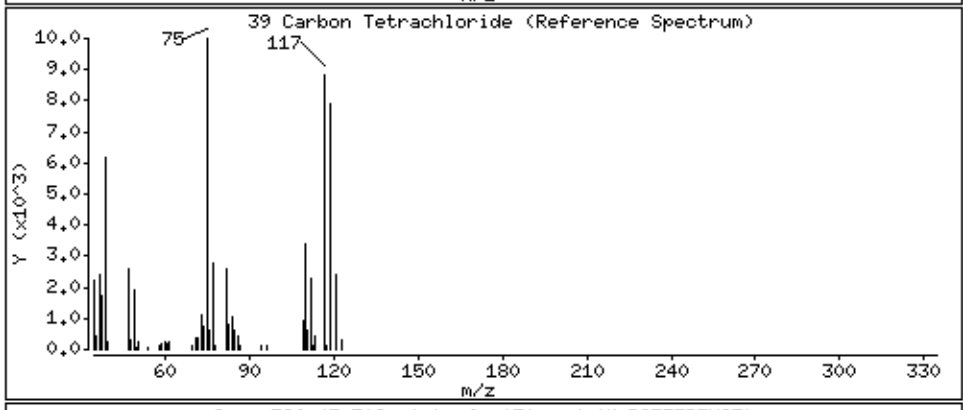
39 Carbon Tetrachloride

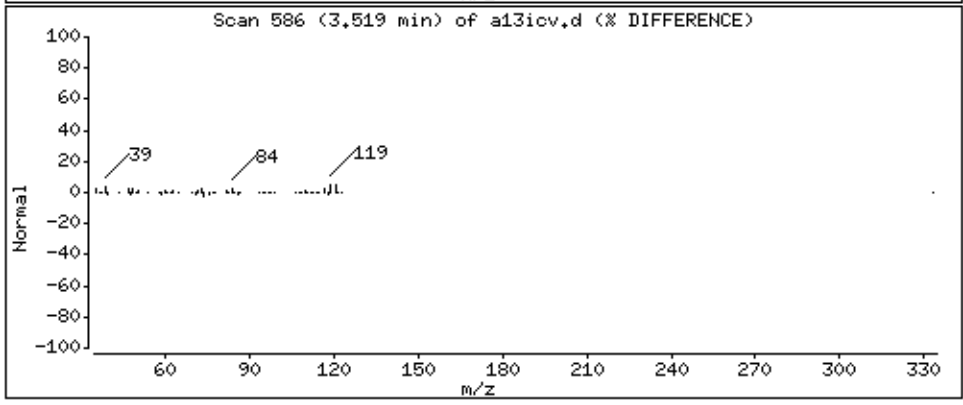
Concentration: 49.3 ppb

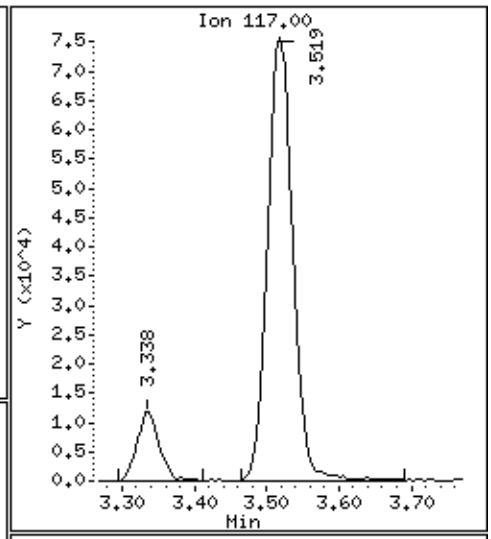
Review Code:

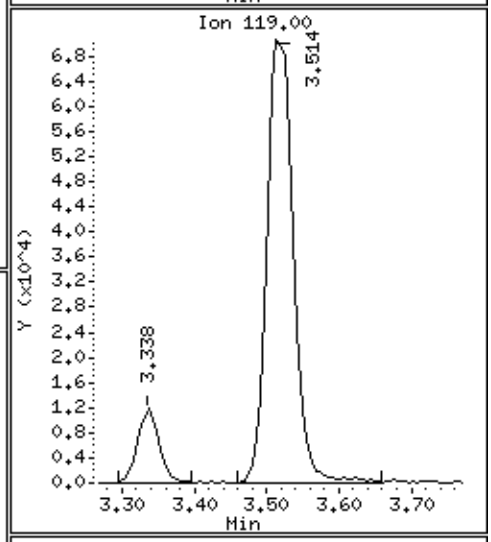


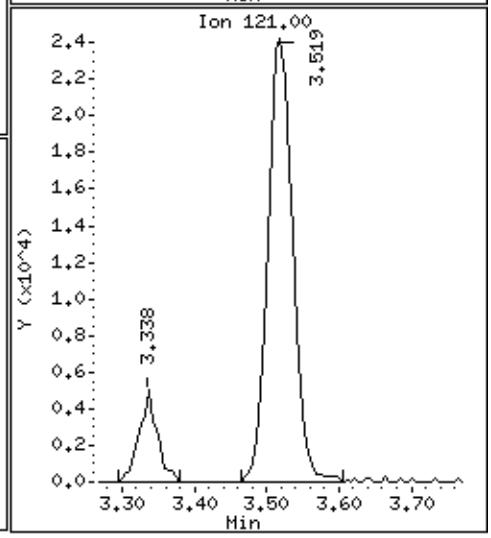












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

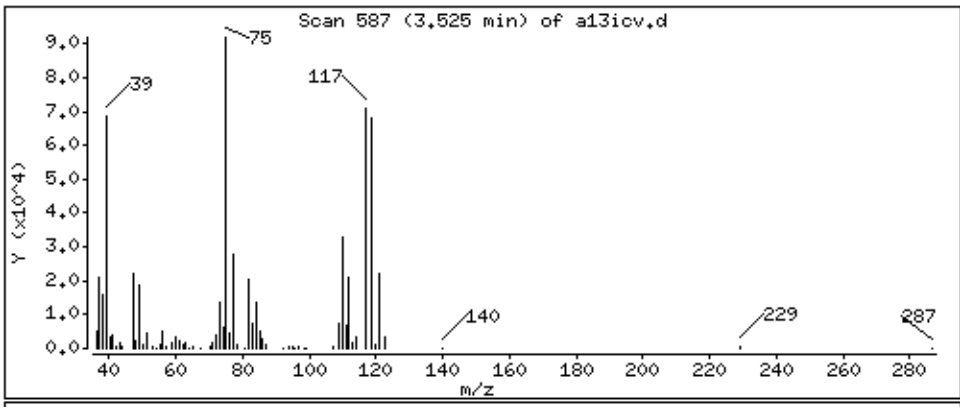
Column phase: DB-624

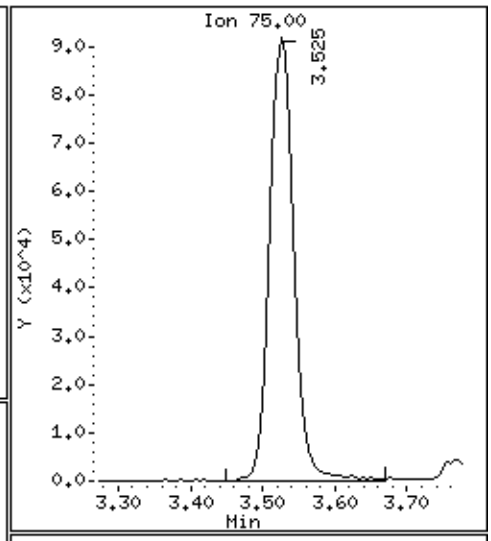
Column diameter: 0.18

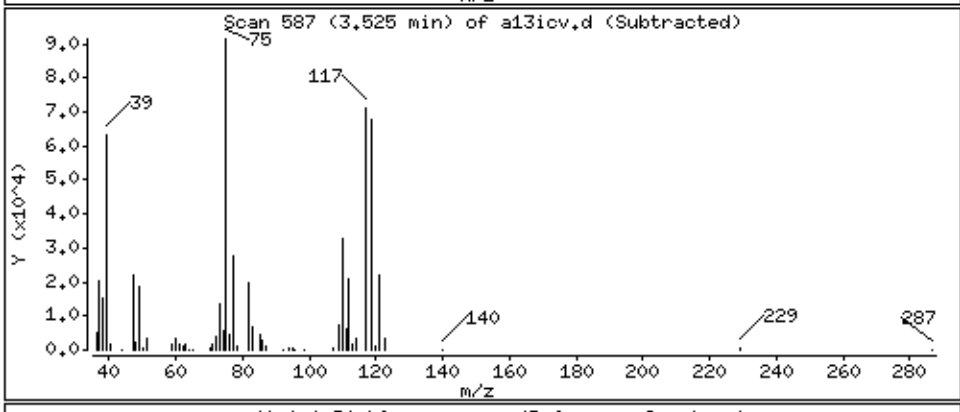
40 1,1-Dichloropropene

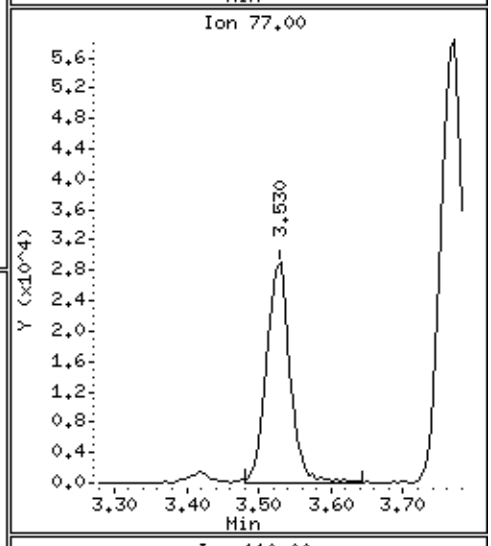
Concentration: 49.1 ppb

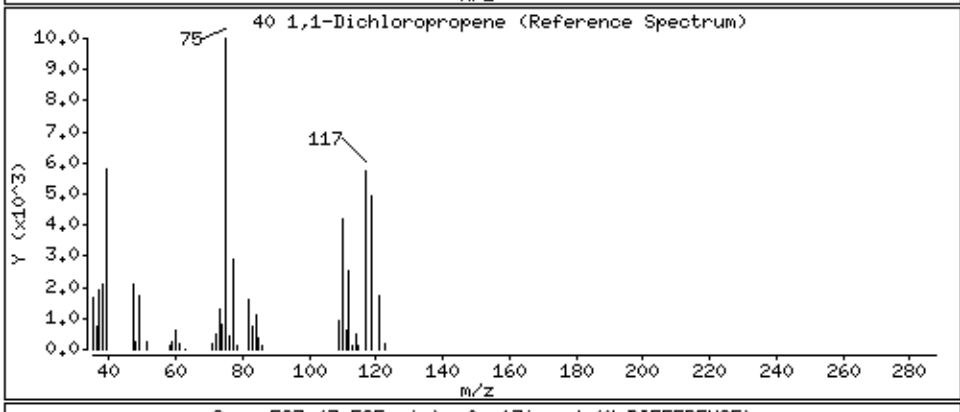
Review Code:

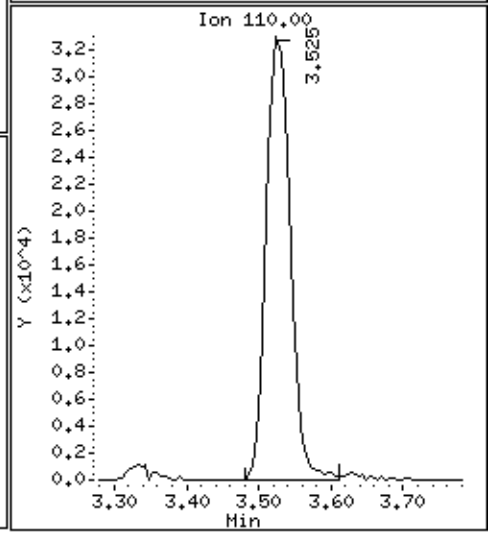


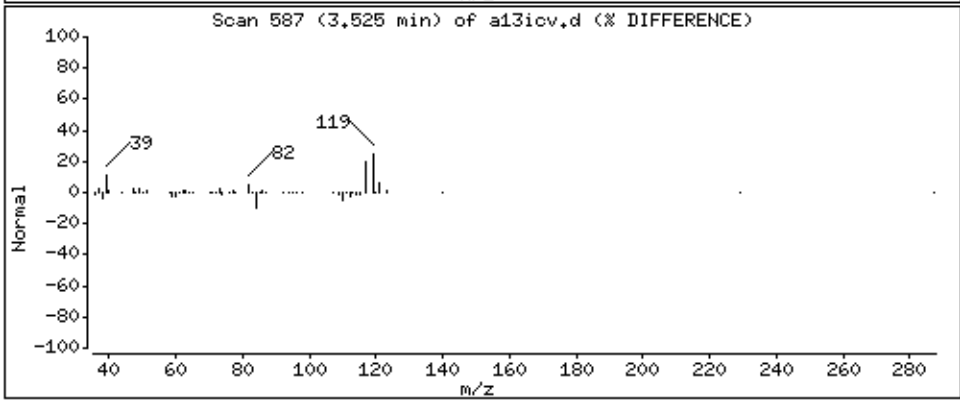












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 44

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

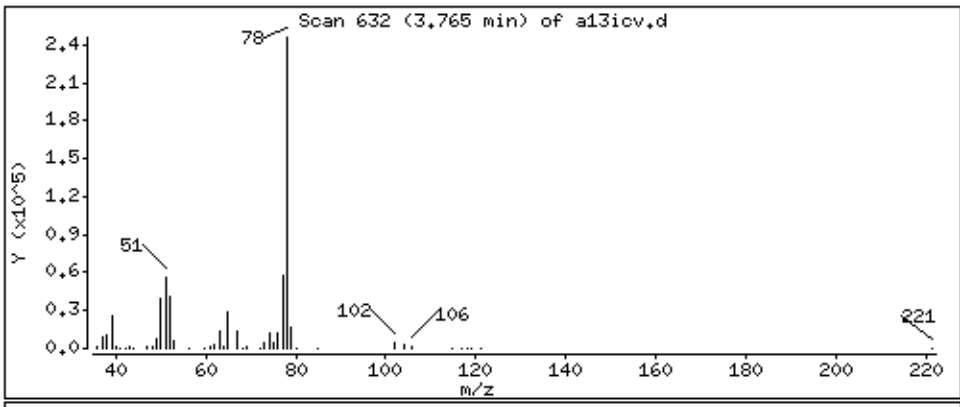
Column phase: DB-624

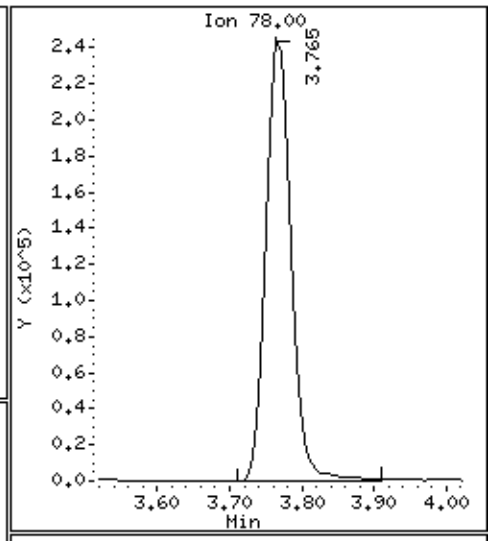
Column diameter: 0.18

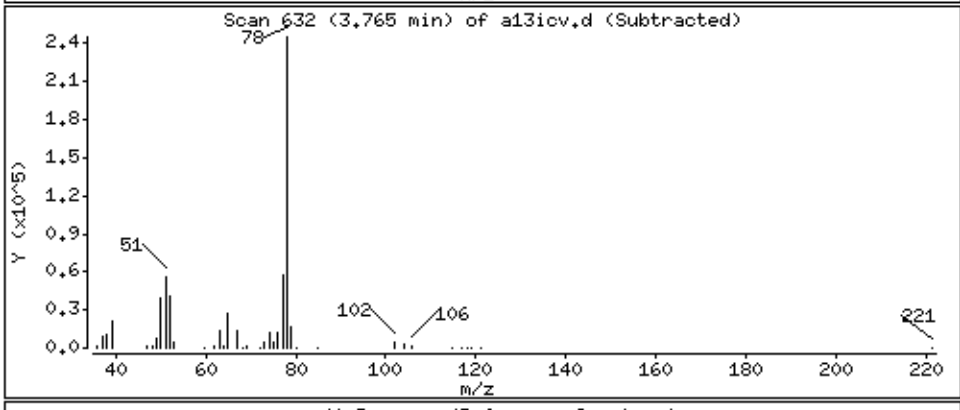
41 Benzene

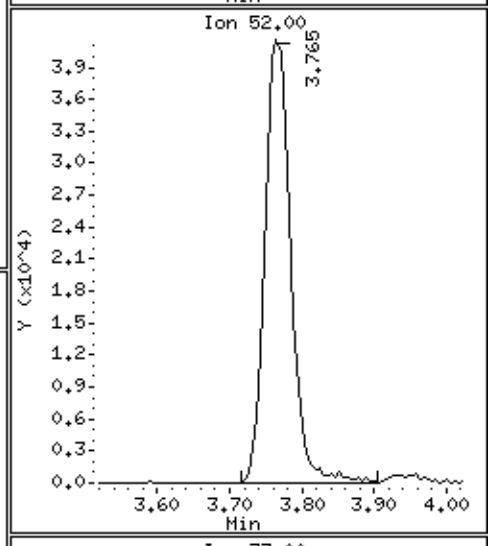
Concentration: 48.2 ppb

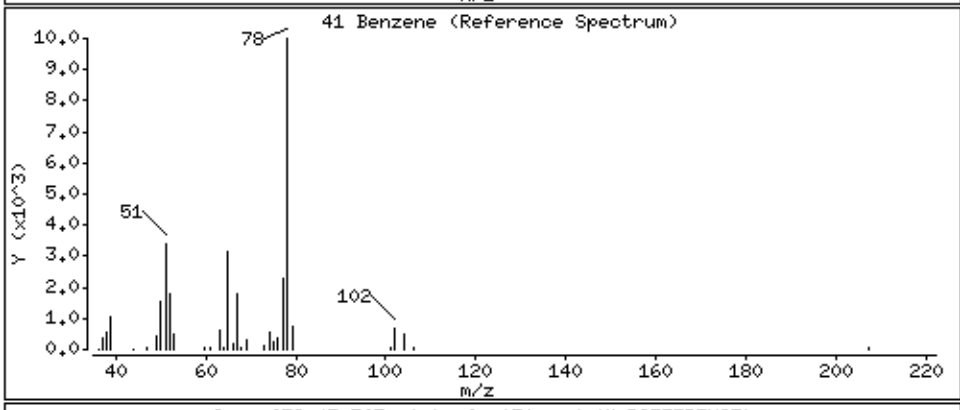
Review Code:

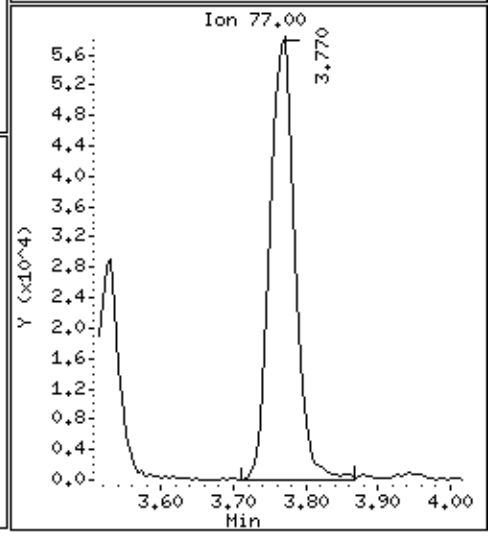


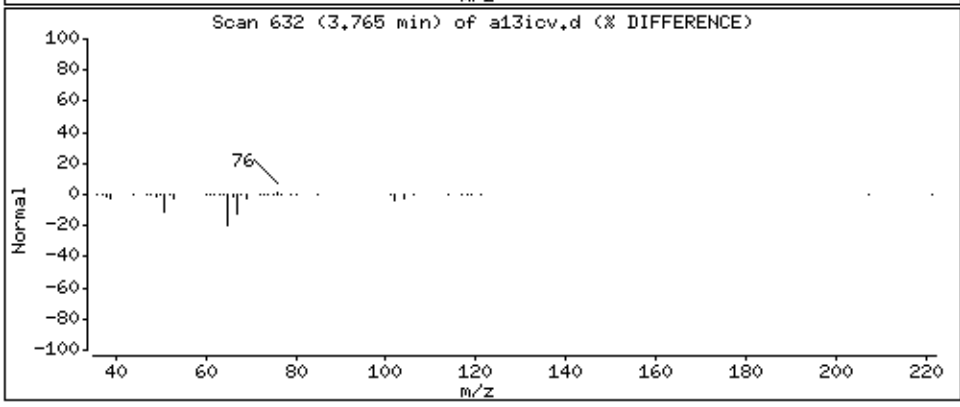












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

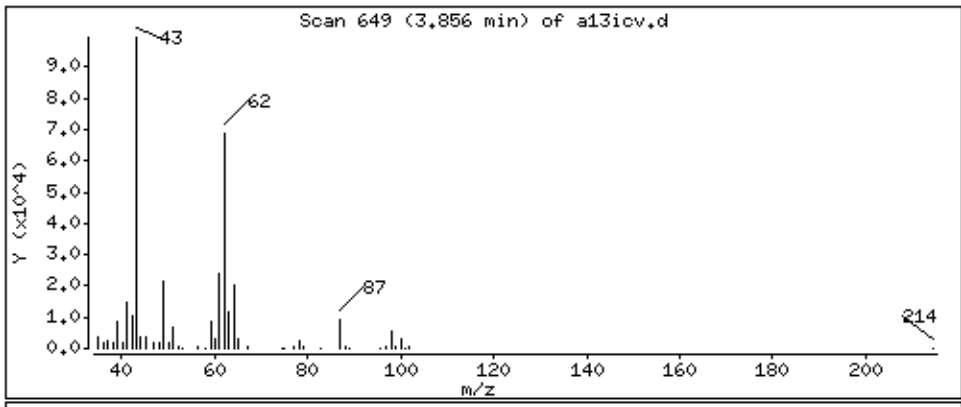
Column phase: DB-624

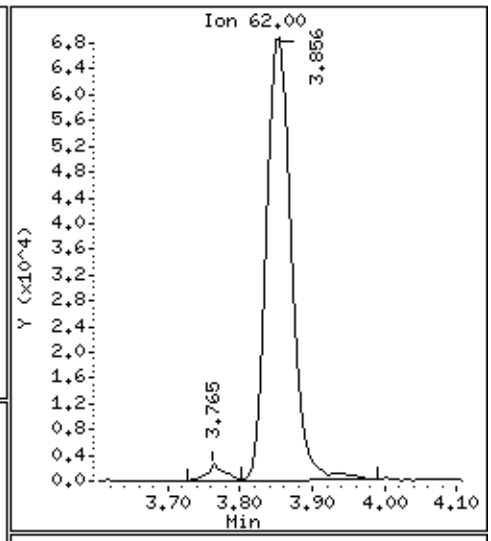
Column diameter: 0.18

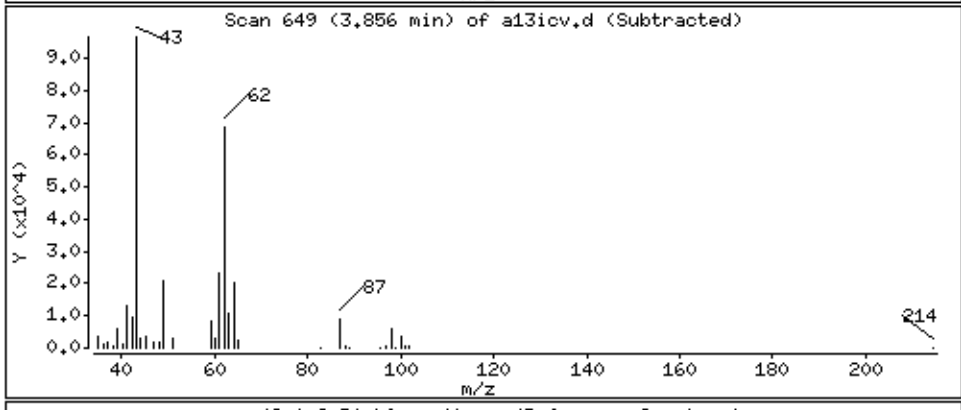
42 1,2-Dichloroethane

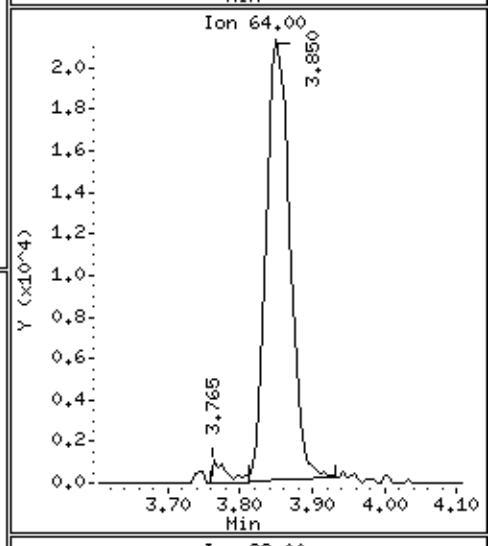
Concentration: 49.1 ppb

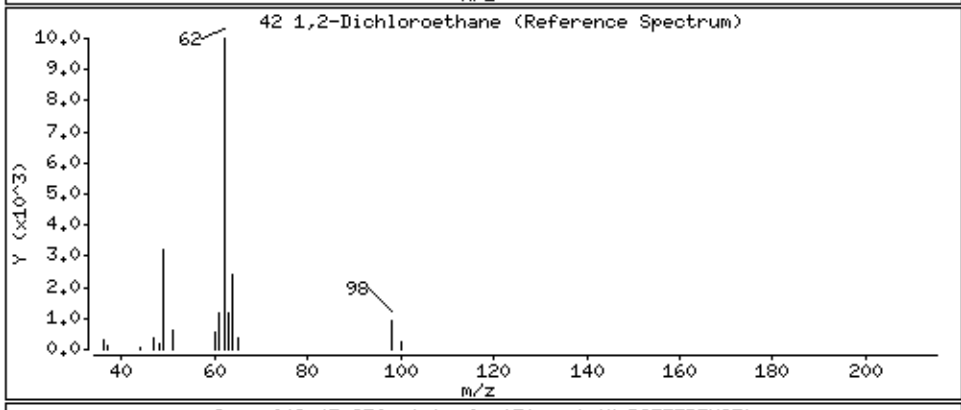
Review Code:

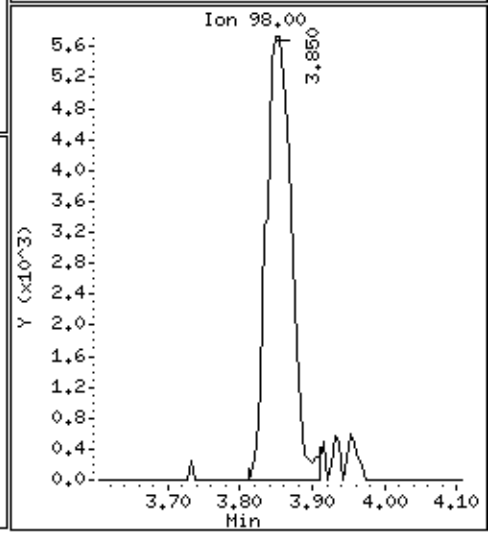


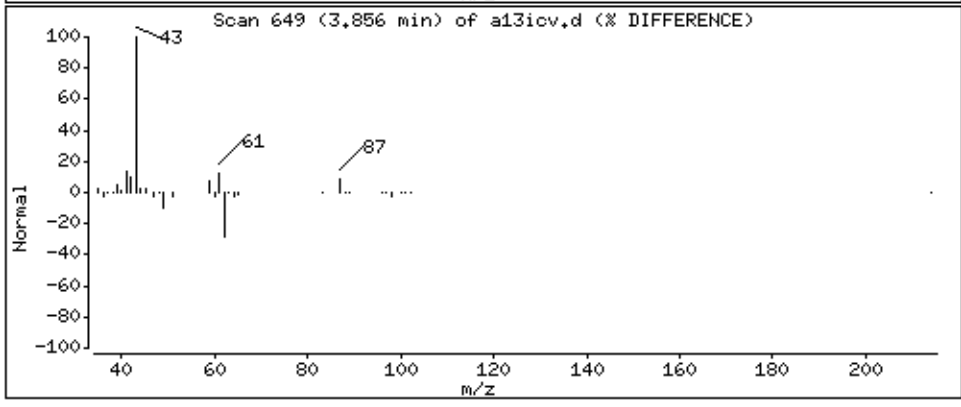












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

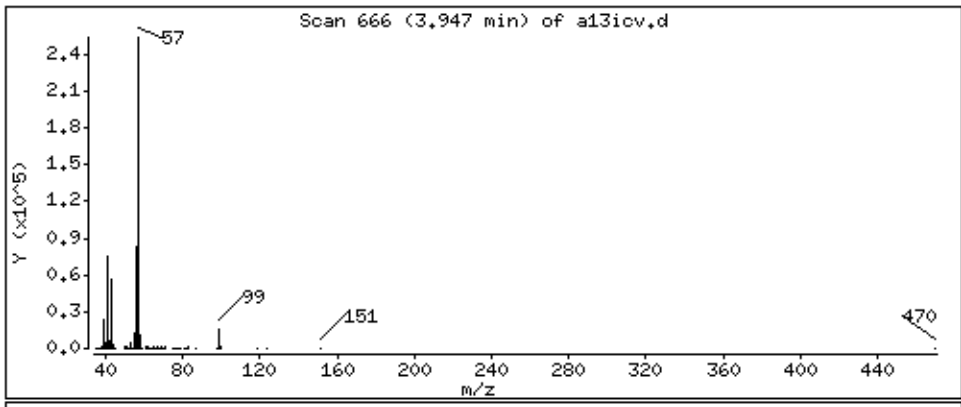
Column phase: DB-624

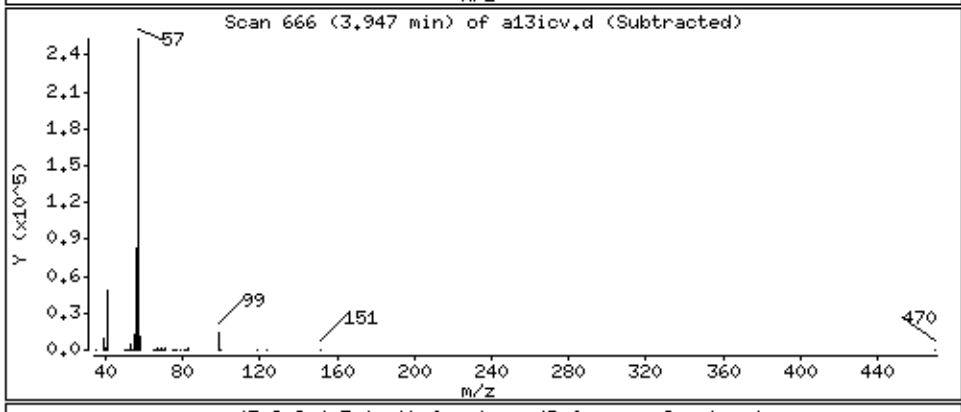
Column diameter: 0.18

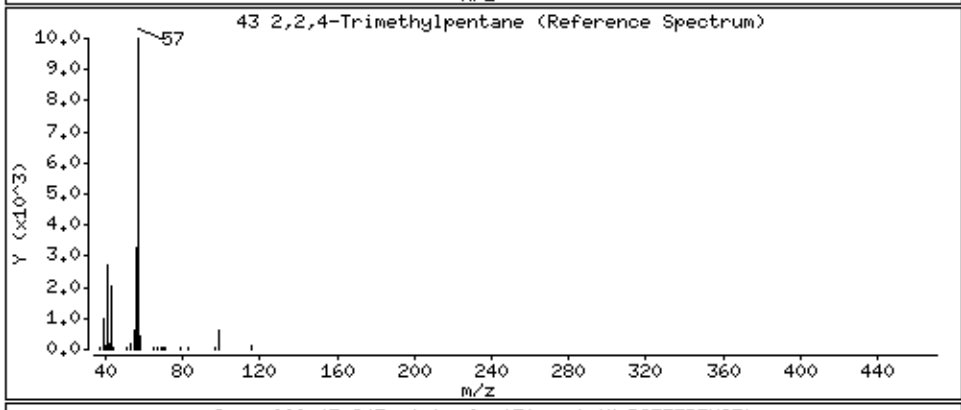
43 2,2,4-Trimethylpentane

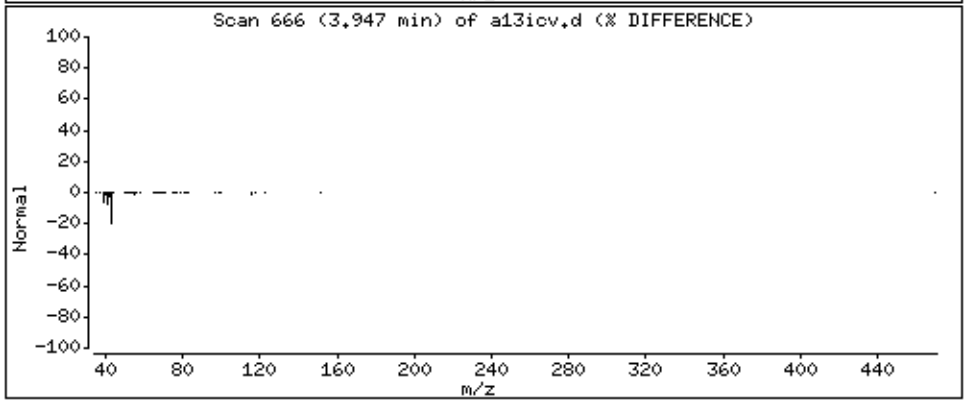
Concentration: 51.2 ppb

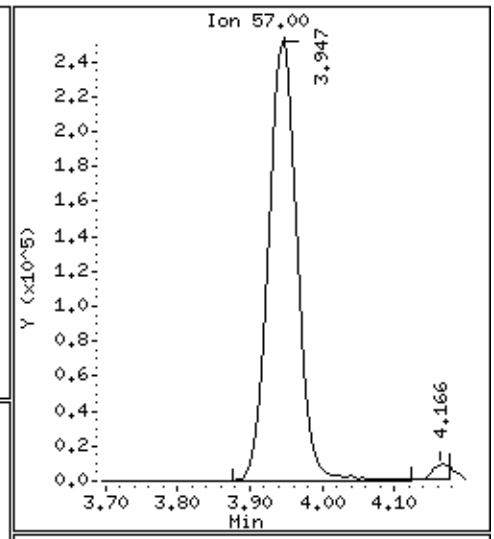
Review Code:

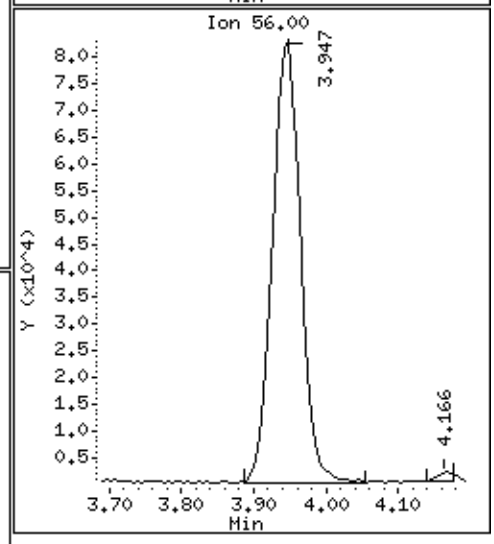












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

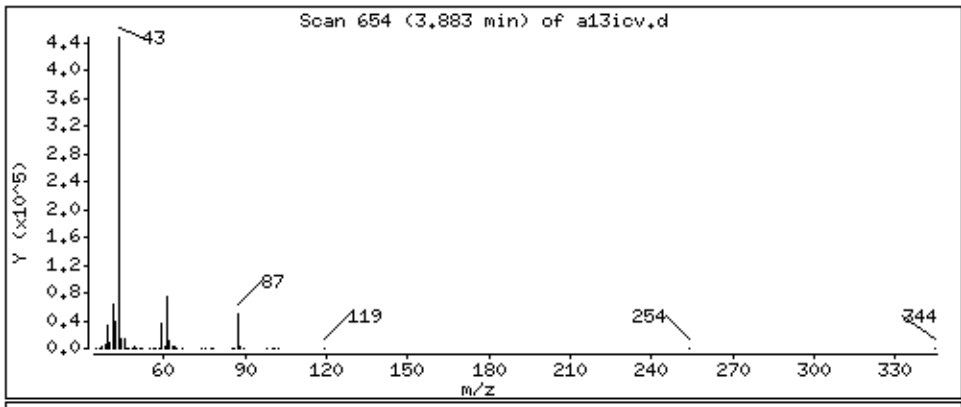
Column phase: DB-624

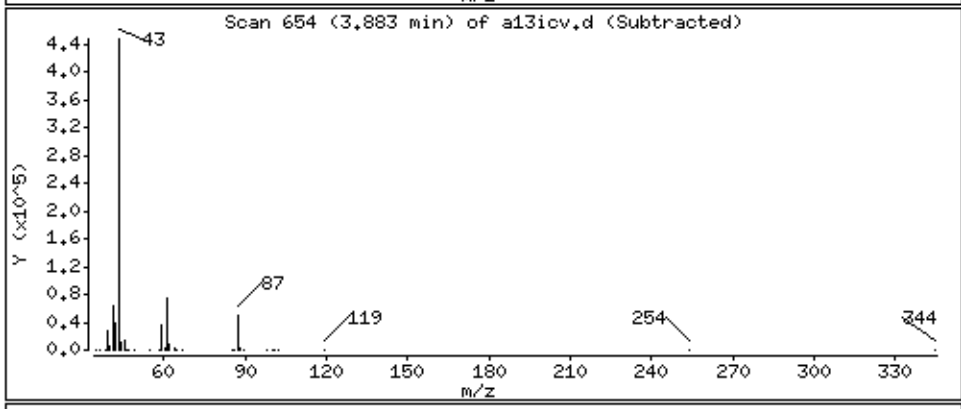
Column diameter: 0.18

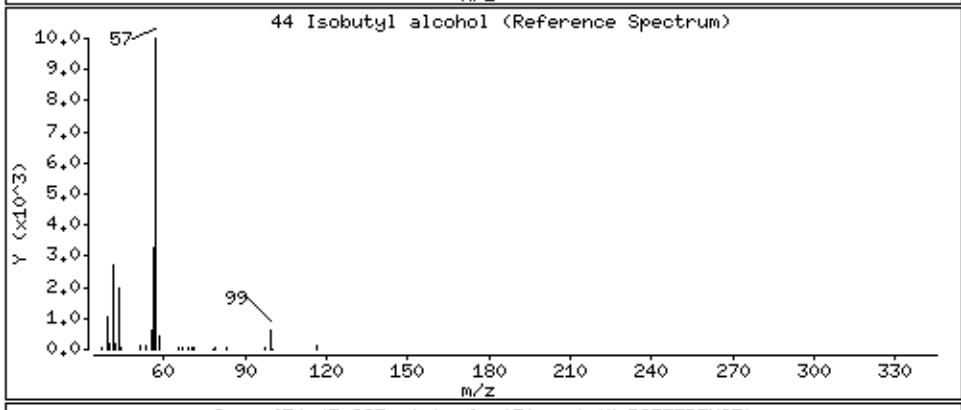
44 Isobutyl alcohol

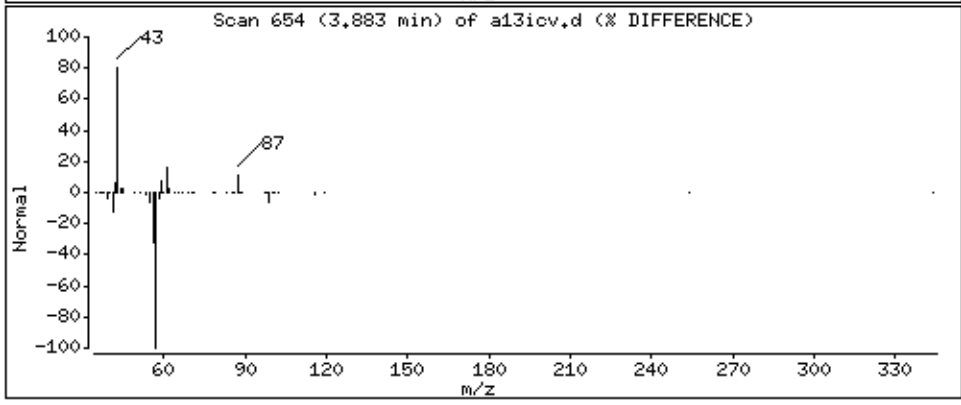
Concentration: 446 ppb

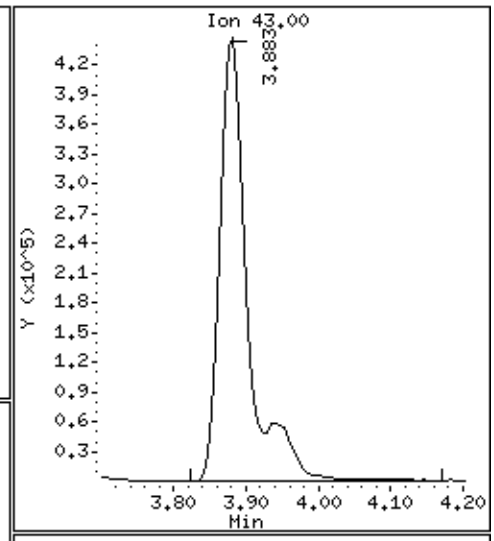
Review Code:

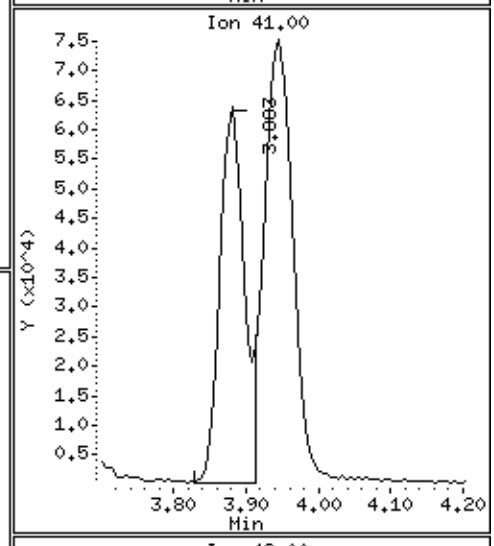


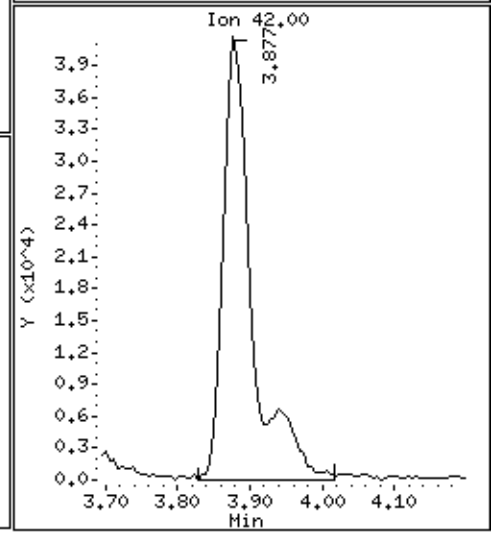












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

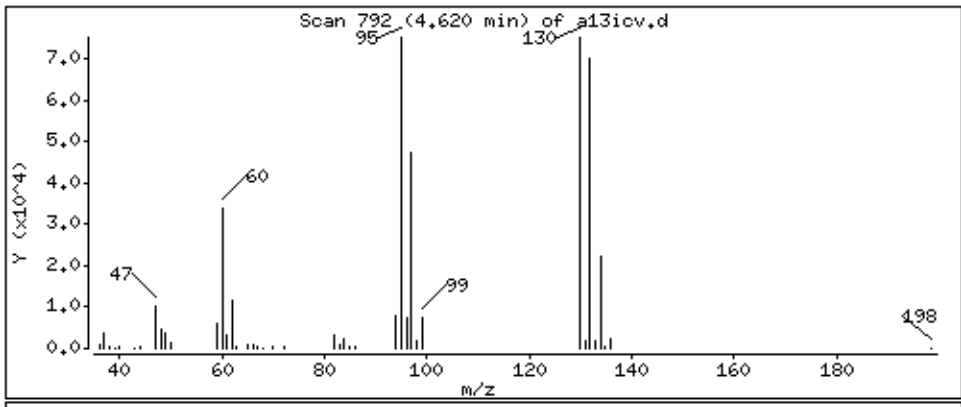
Column phase: DB-624

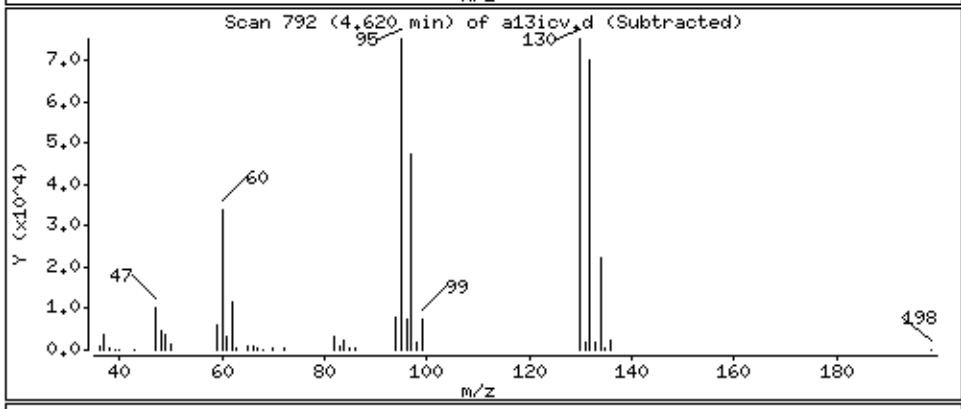
Column diameter: 0.18

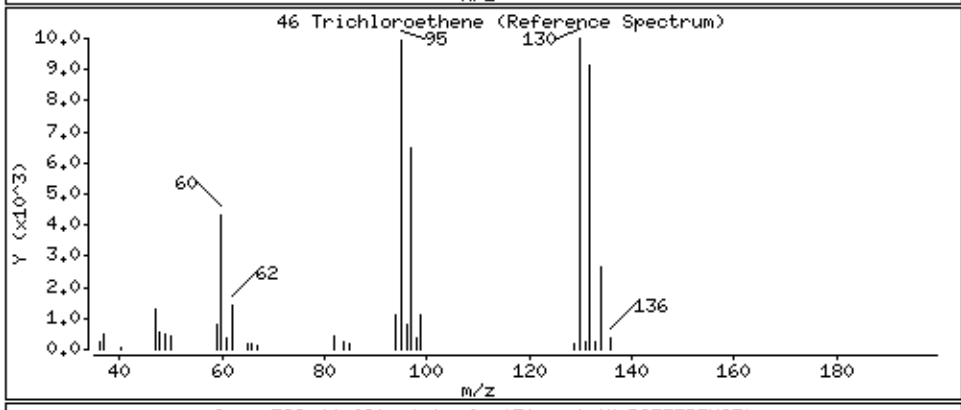
46 Trichloroethene

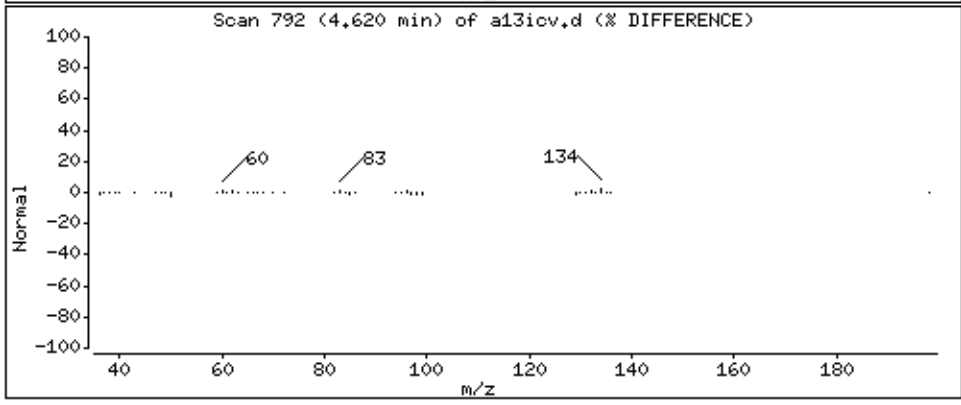
Concentration: 48.5 ppb

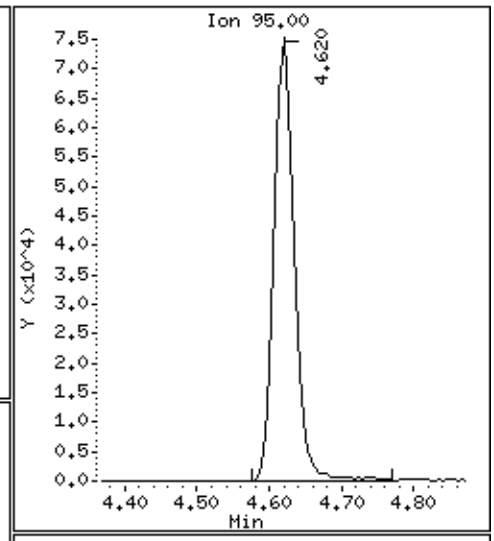
Review Code:

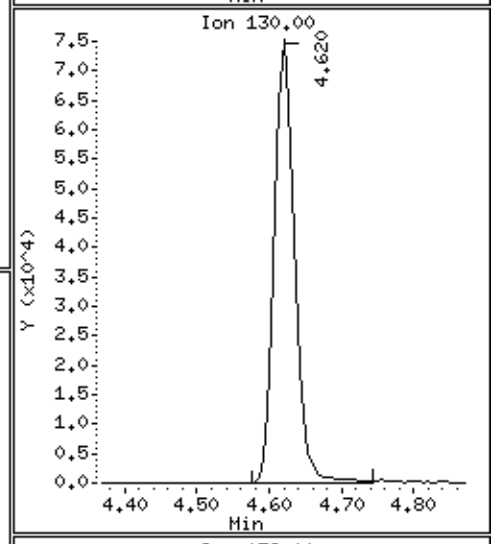


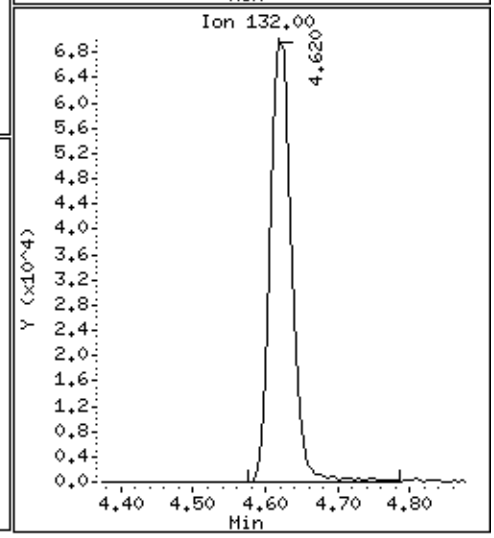












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

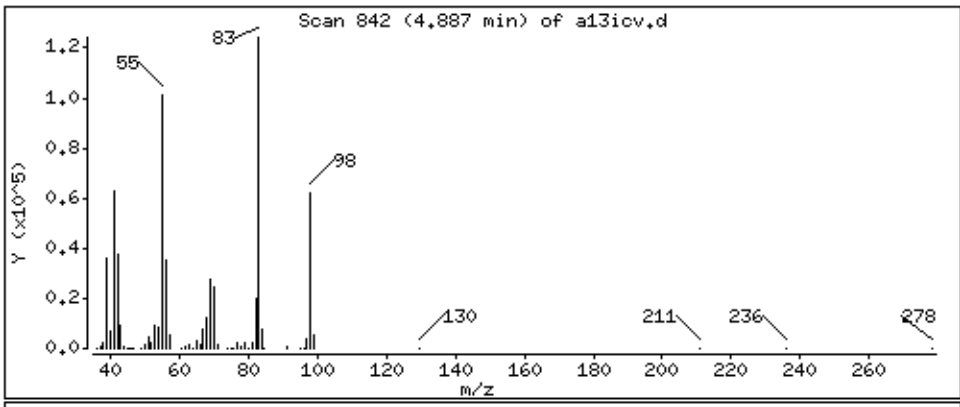
Column phase: DB-624

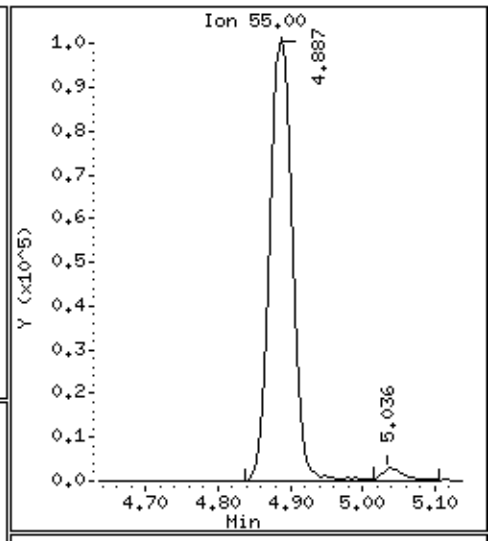
Column diameter: 0.18

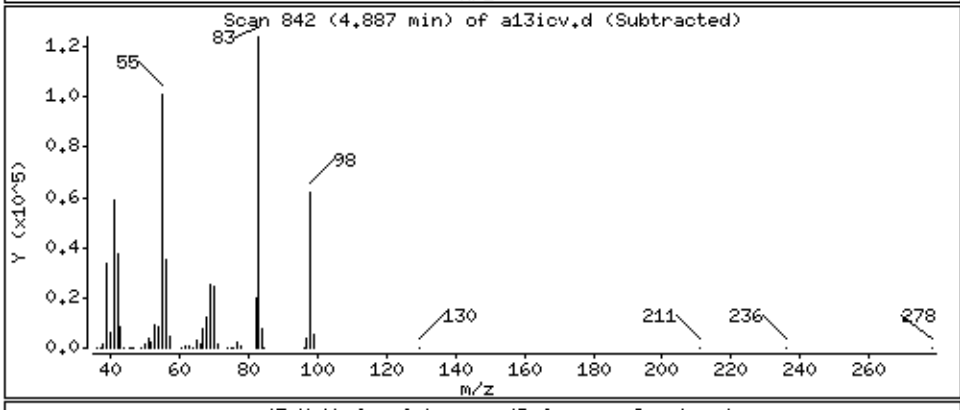
47 Methylcyclohexane

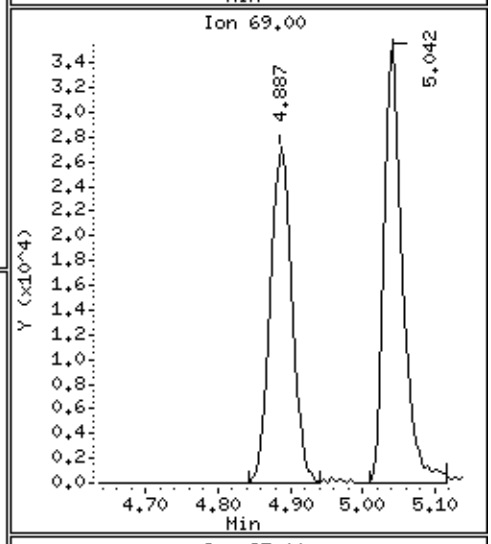
Concentration: 49.8 ppb

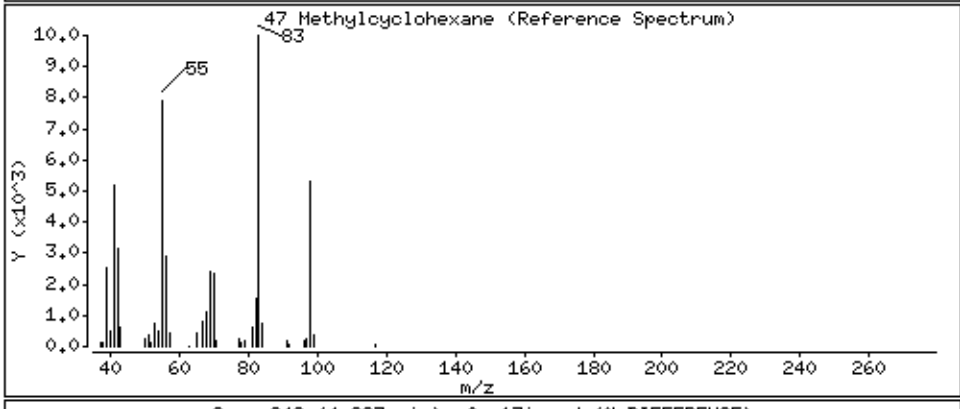
Review Code:

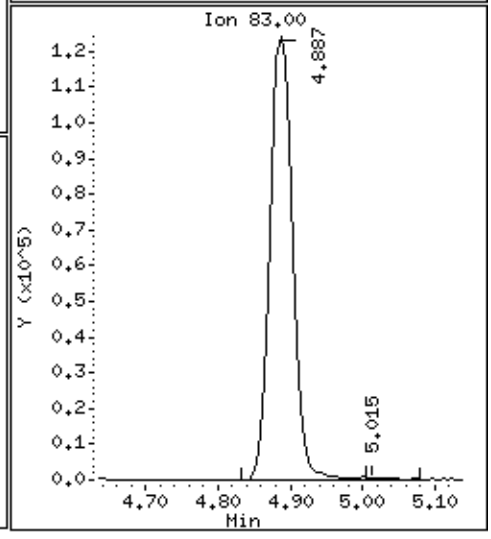


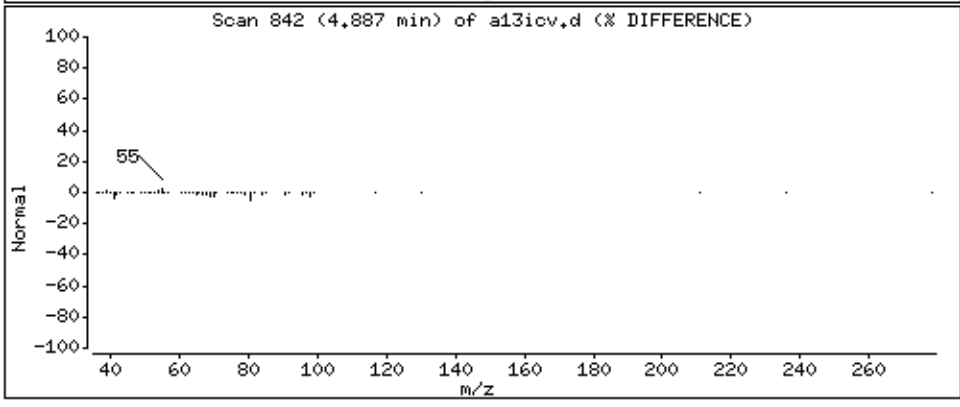












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

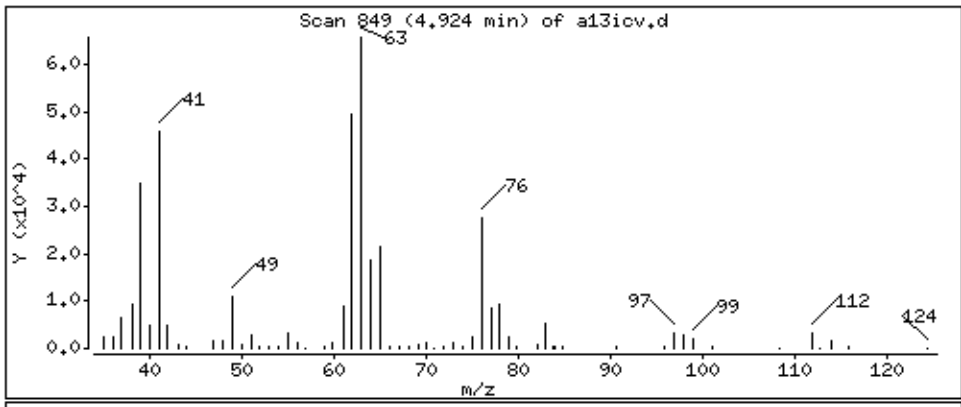
Column phase: DB-624

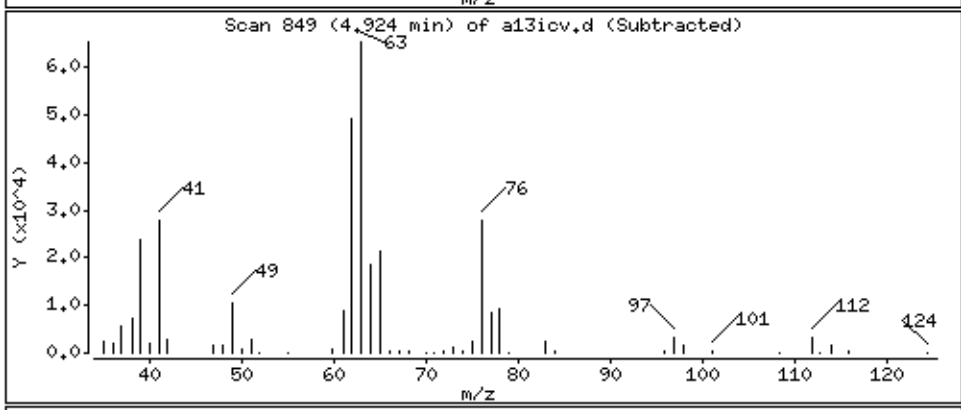
Column diameter: 0.18

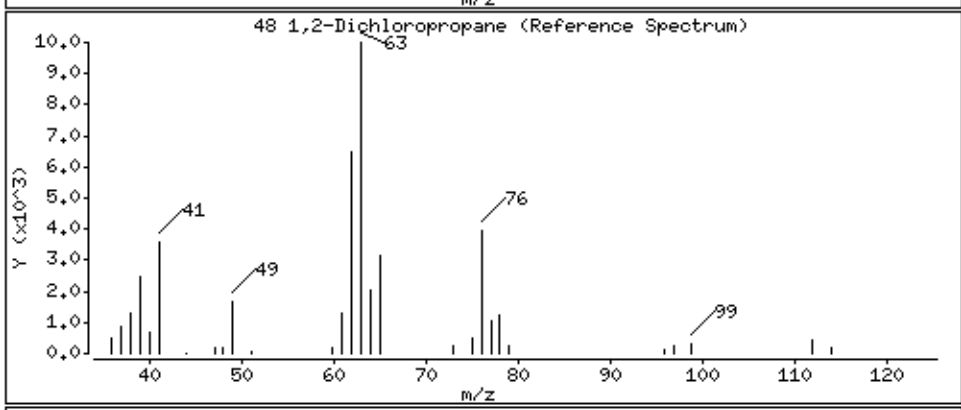
48 1,2-Dichloropropane

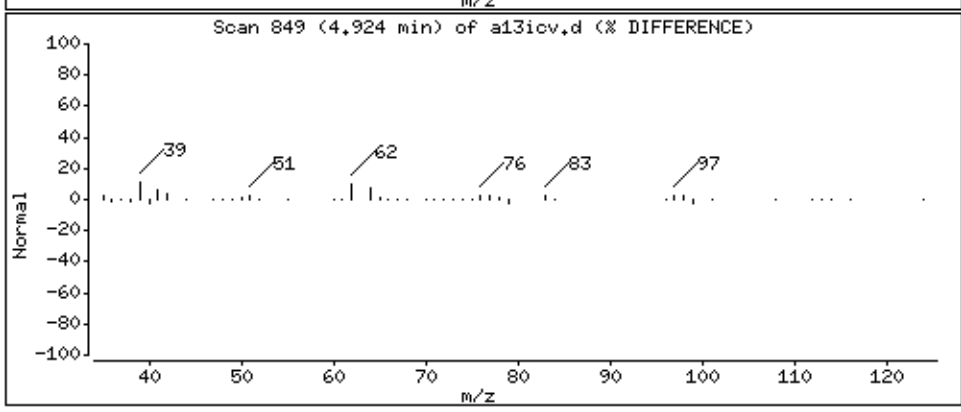
Concentration: 48.3 ppb

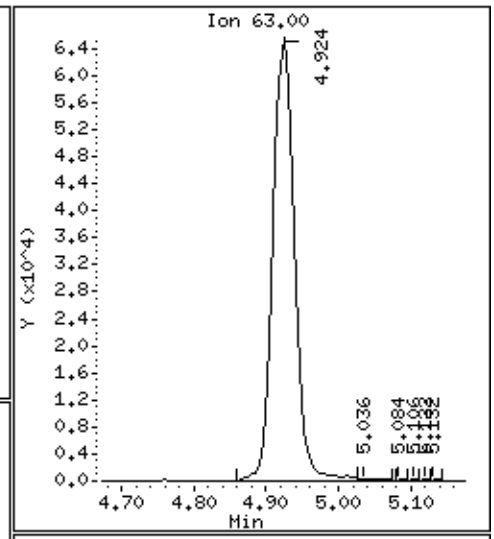
Review Code:

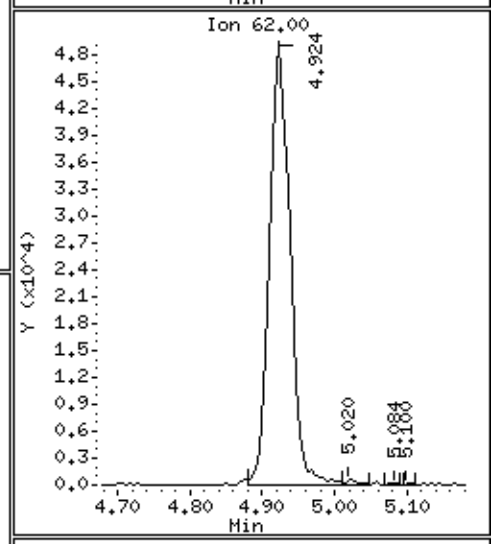


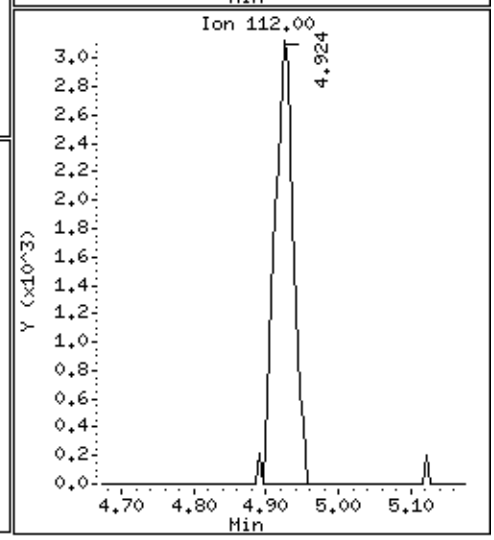












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

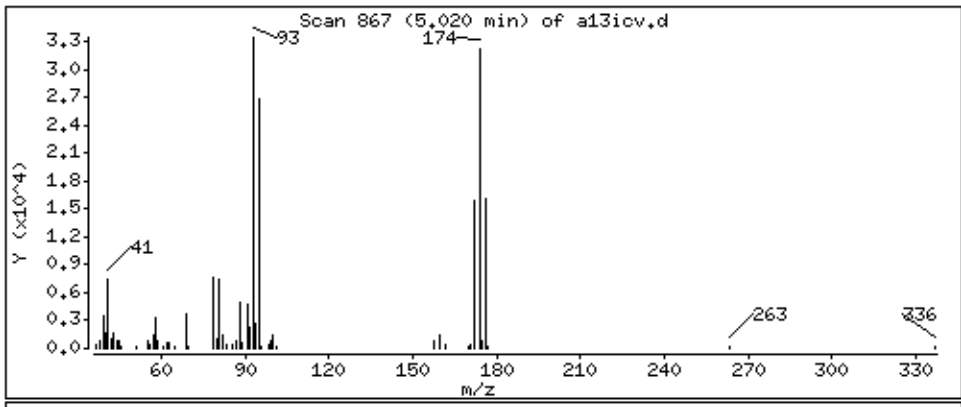
Column phase: DB-624

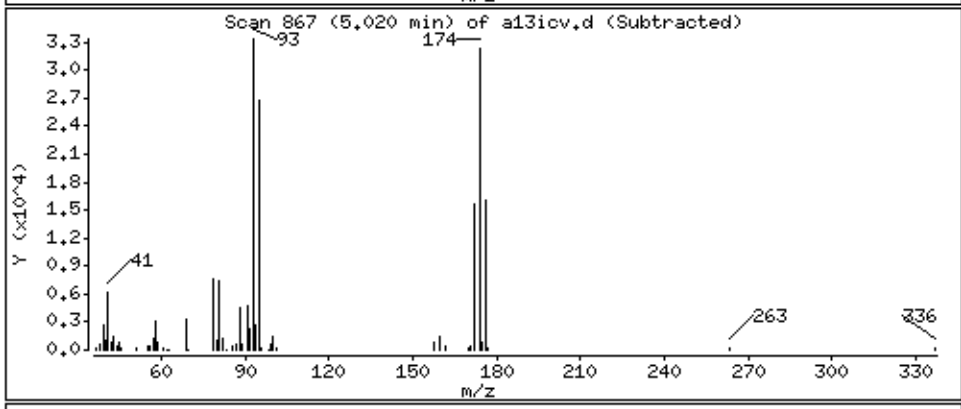
Column diameter: 0.18

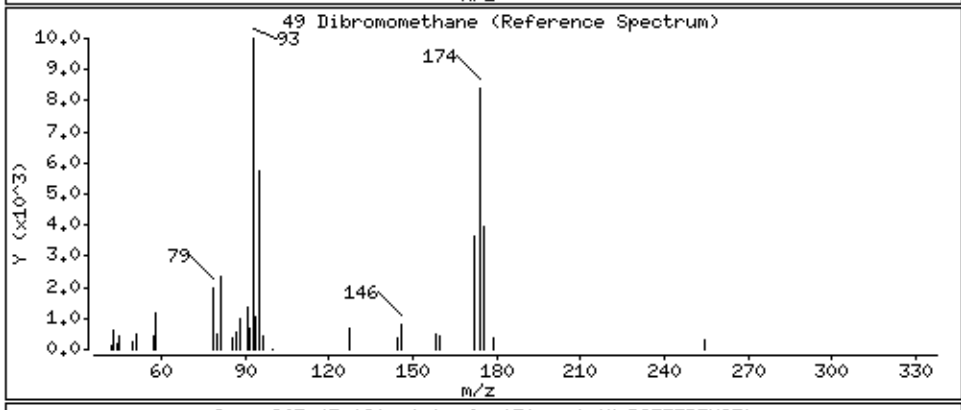
49 Dibromomethane

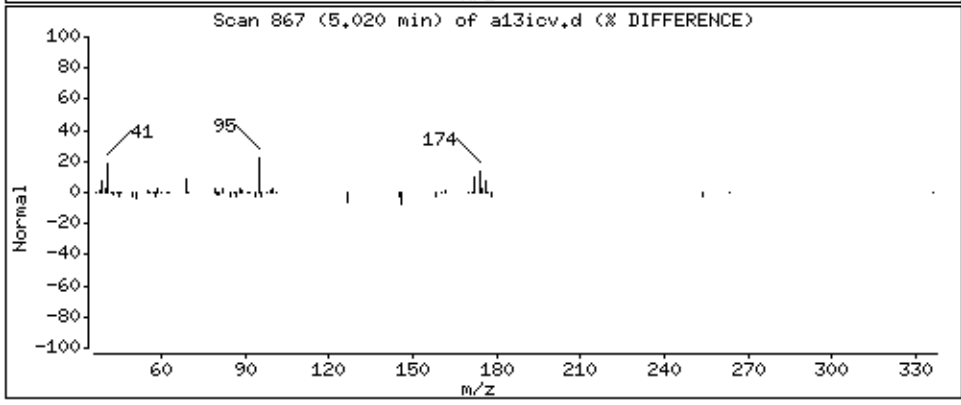
Concentration: 47.9 ppb

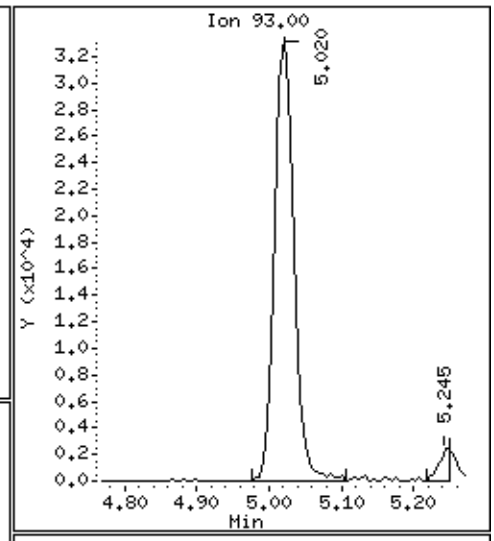
Review Code:

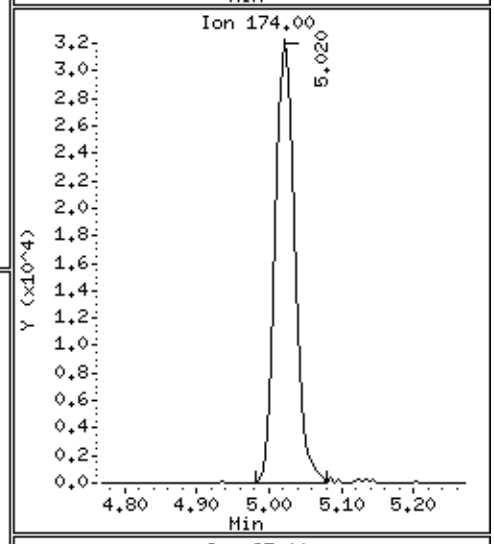


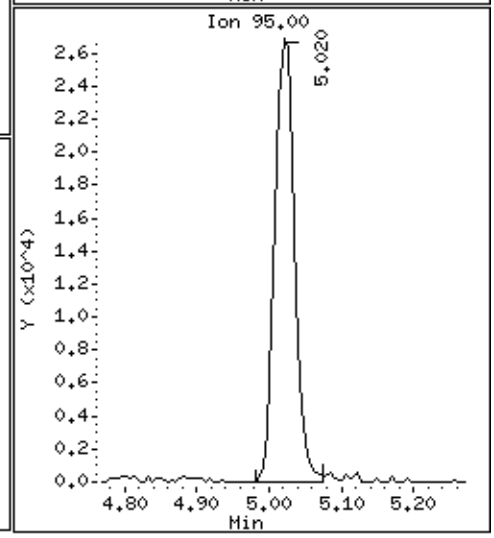












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

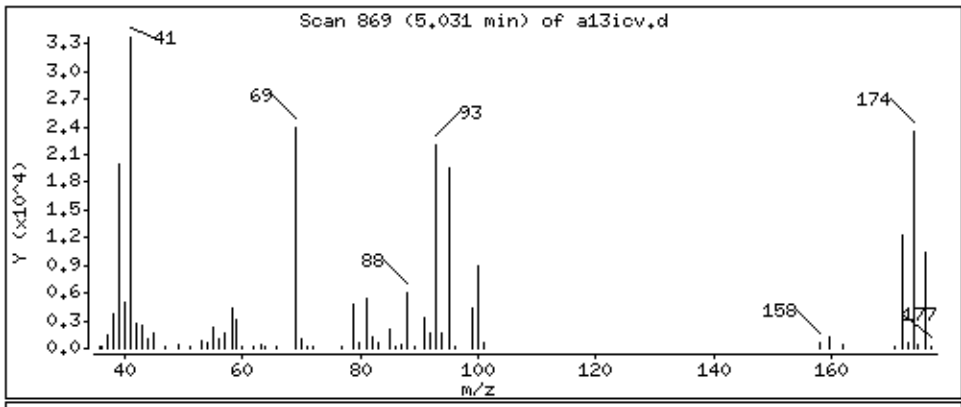
Column phase: DB-624

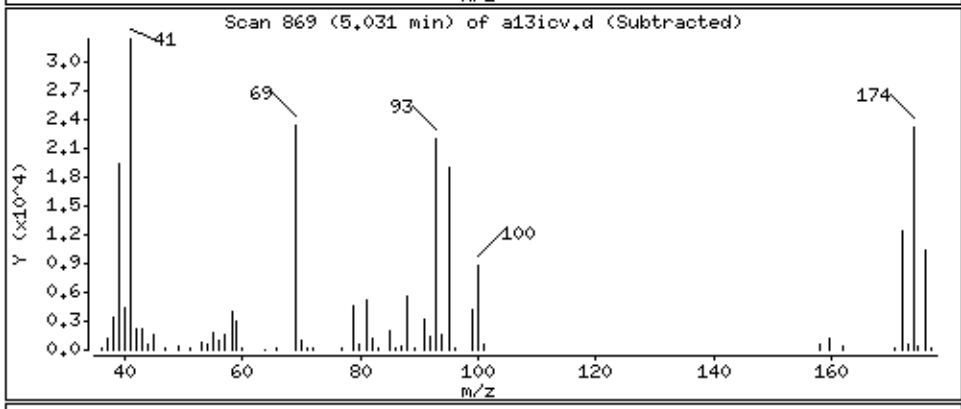
Column diameter: 0.18

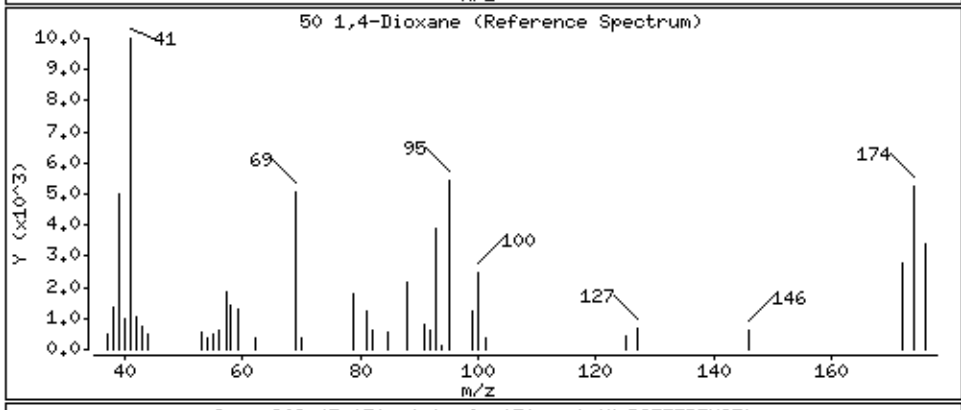
50 1,4-Dioxane

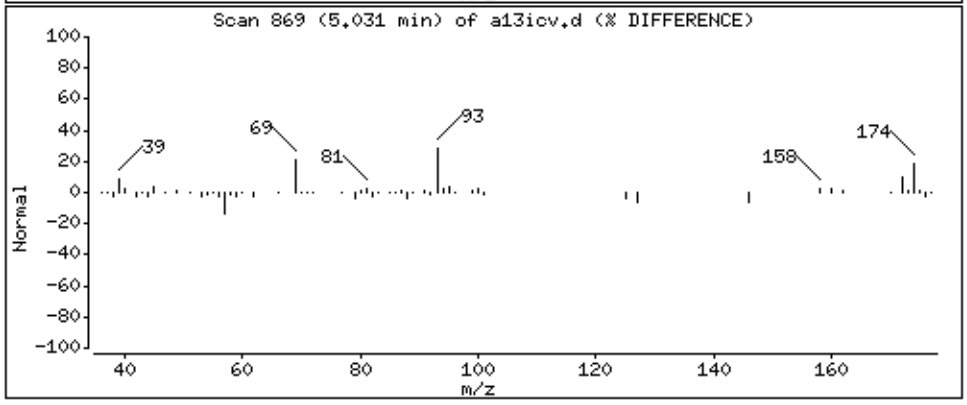
Concentration: 871 ppb

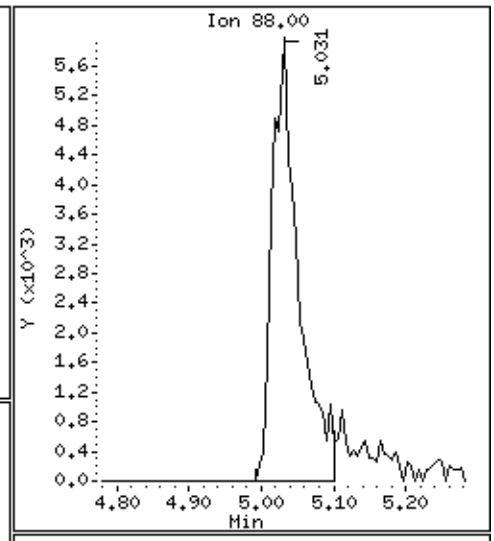
Review Code:

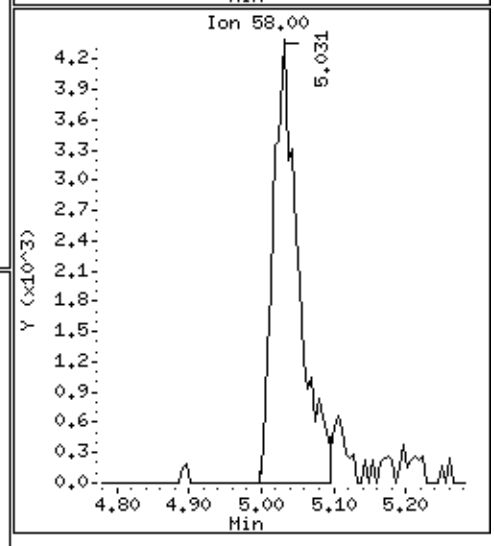












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 53

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

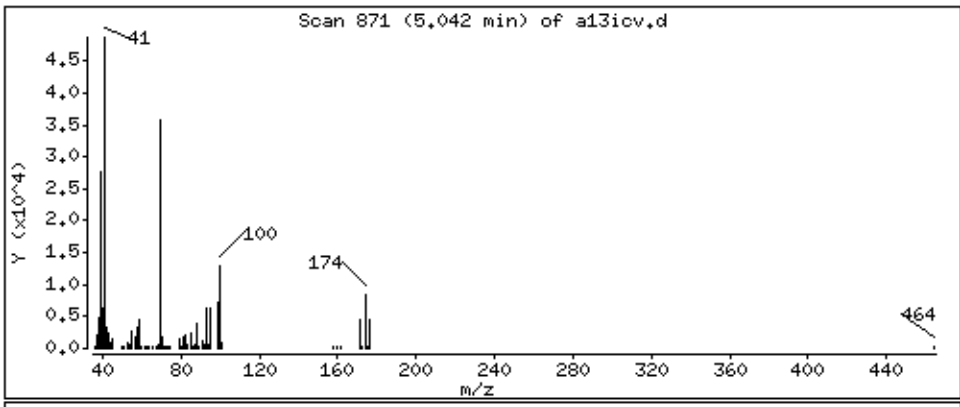
Column phase: DB-624

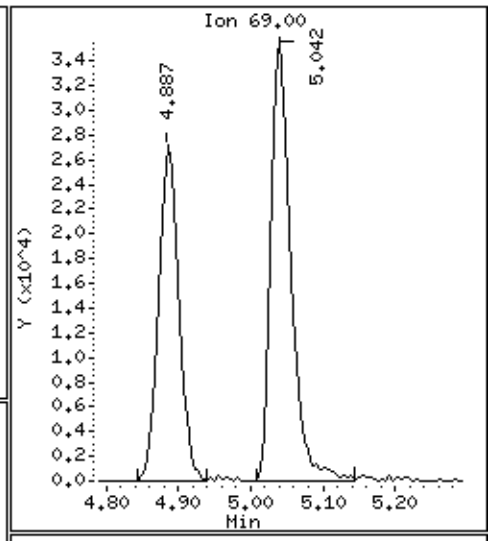
Column diameter: 0.18

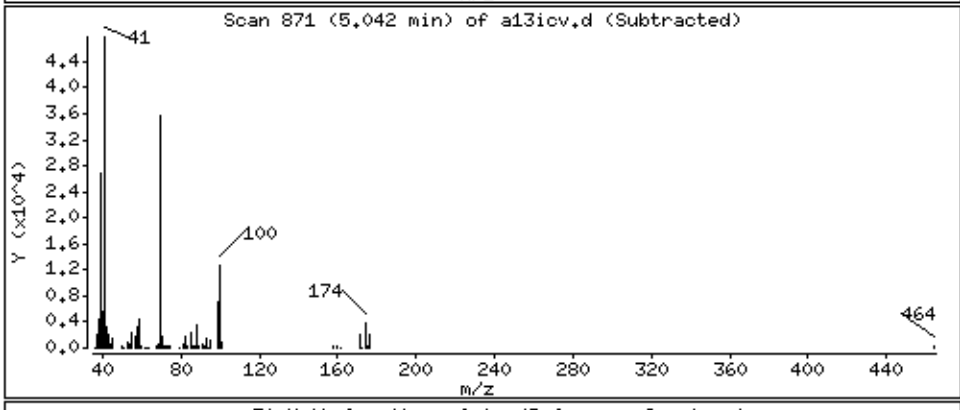
51 Methyl methacrylate

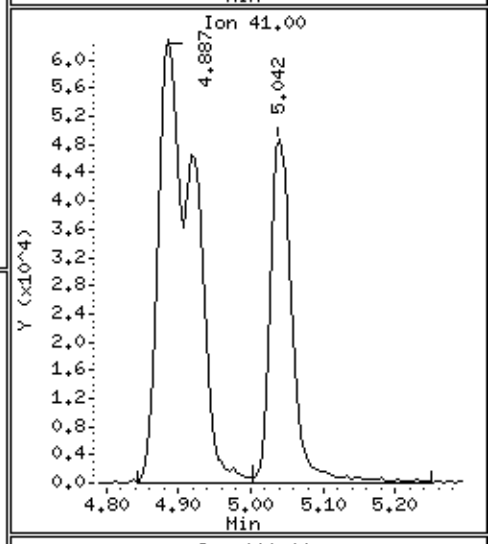
Concentration: 54.1 ppb

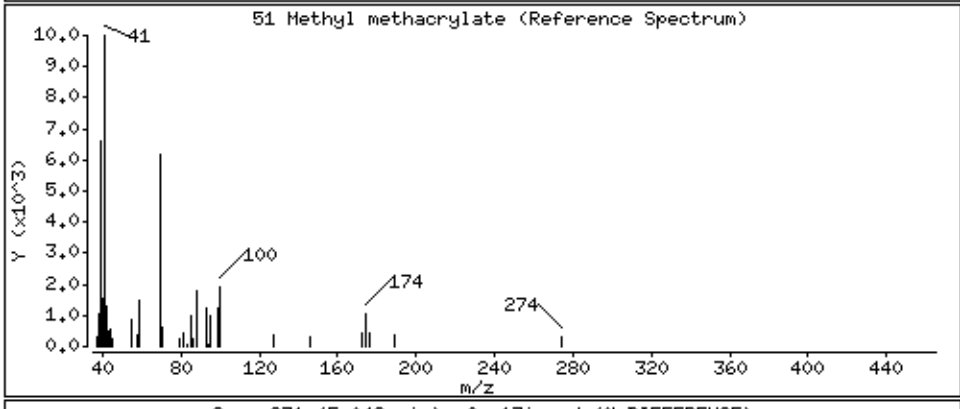
Review Code:

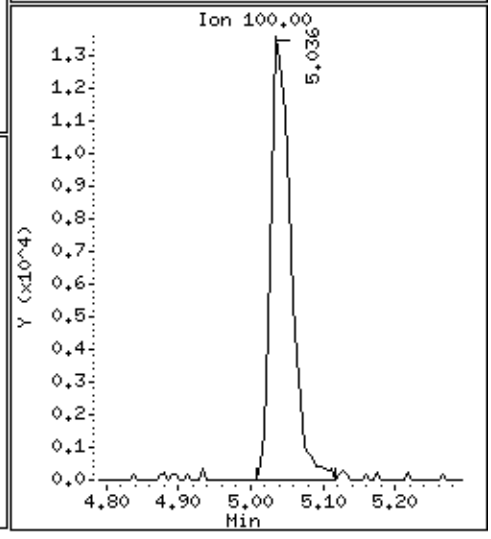


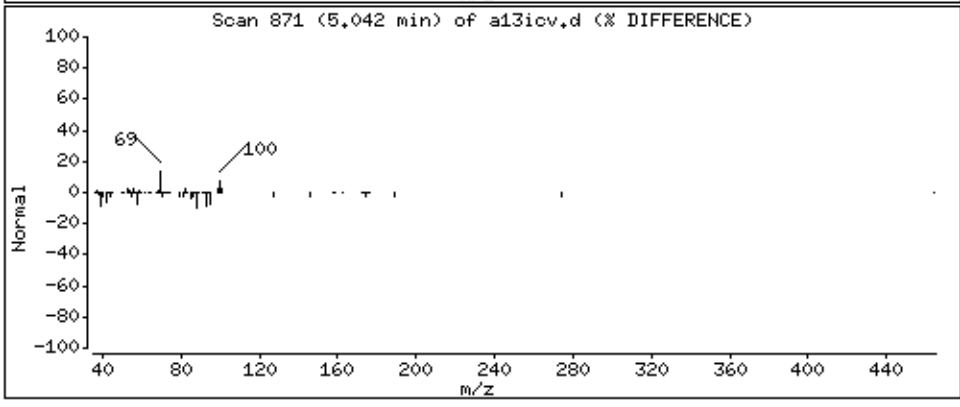












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

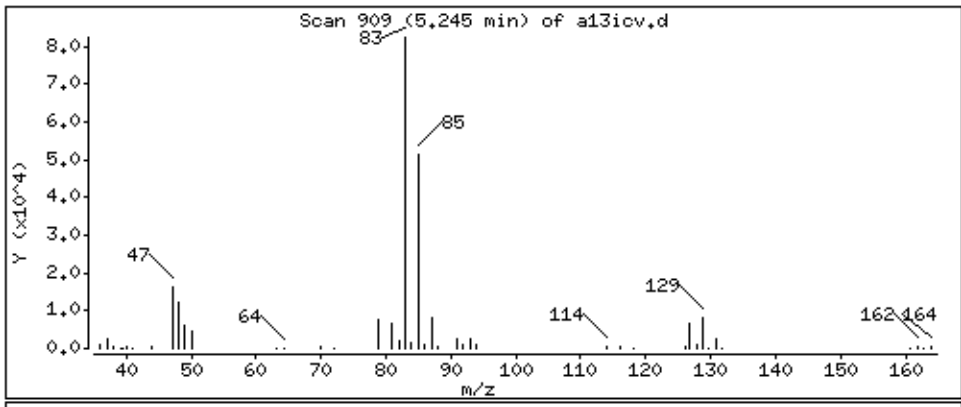
Column phase: DB-624

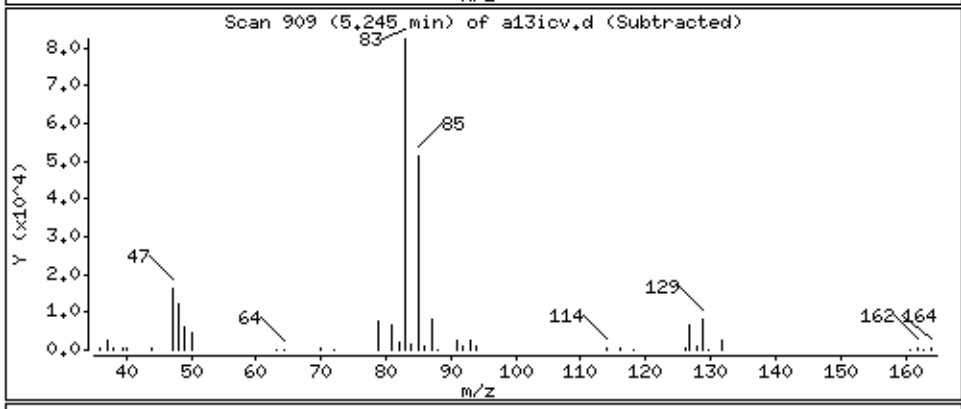
Column diameter: 0.18

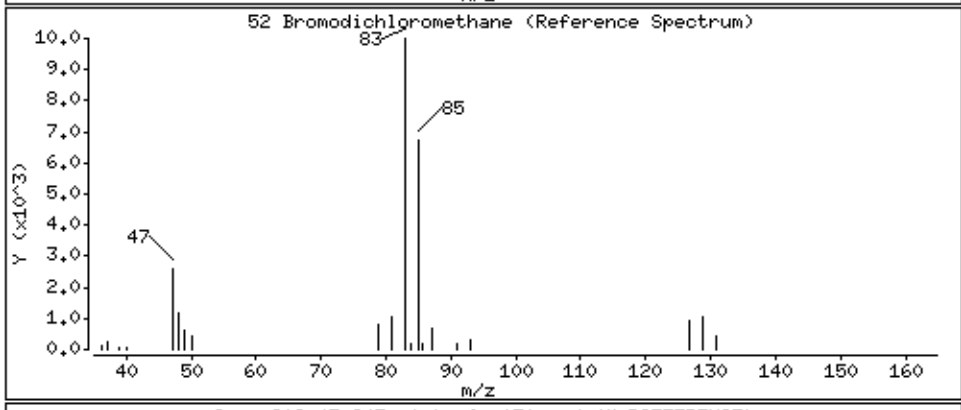
52 Bromodichloromethane

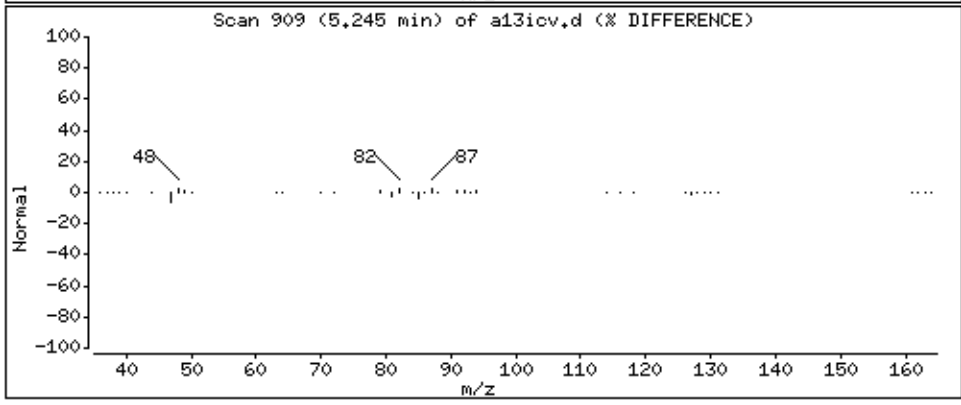
Concentration: 46.8 ppb

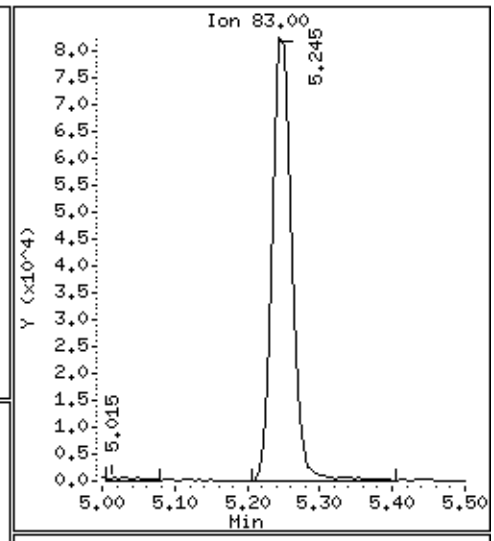
Review Code:

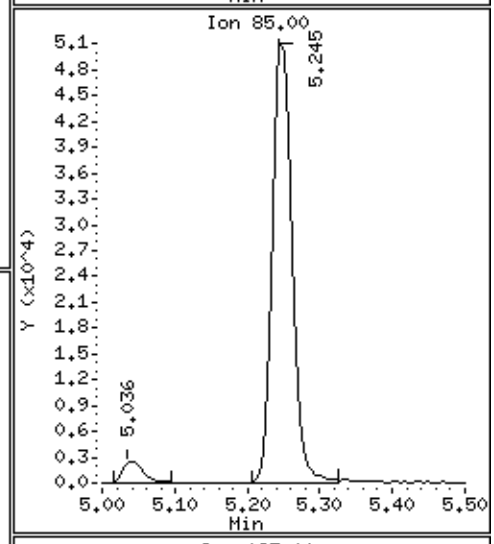


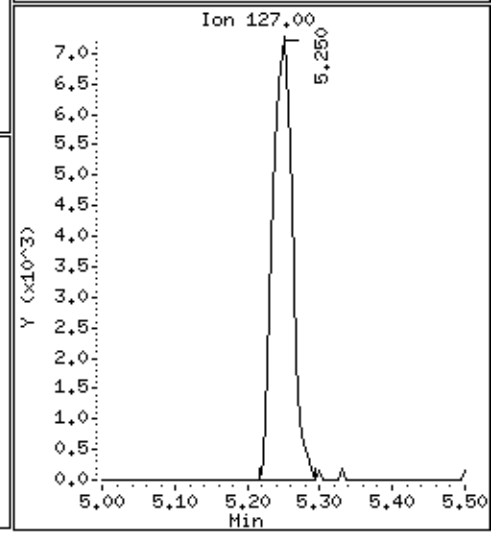












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

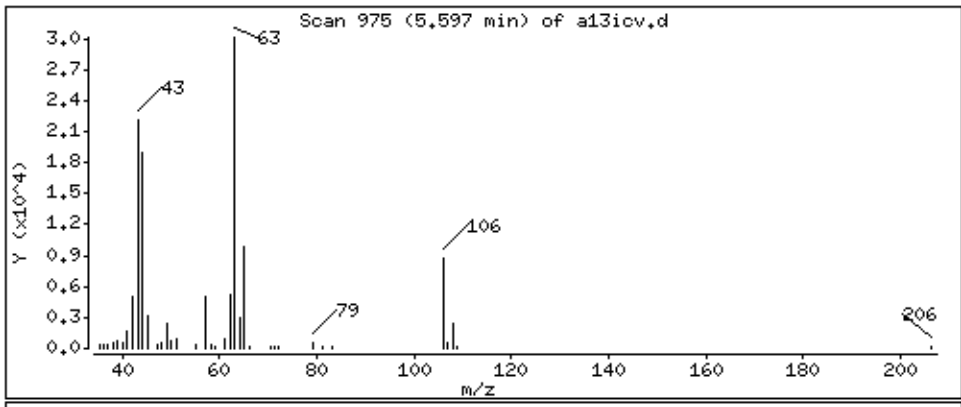
Column phase: DB-624

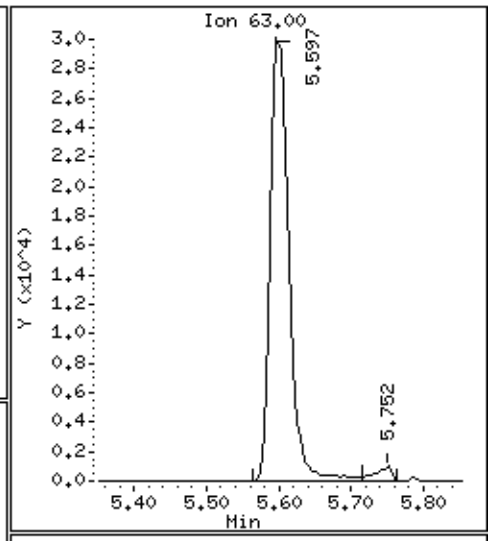
Column diameter: 0.18

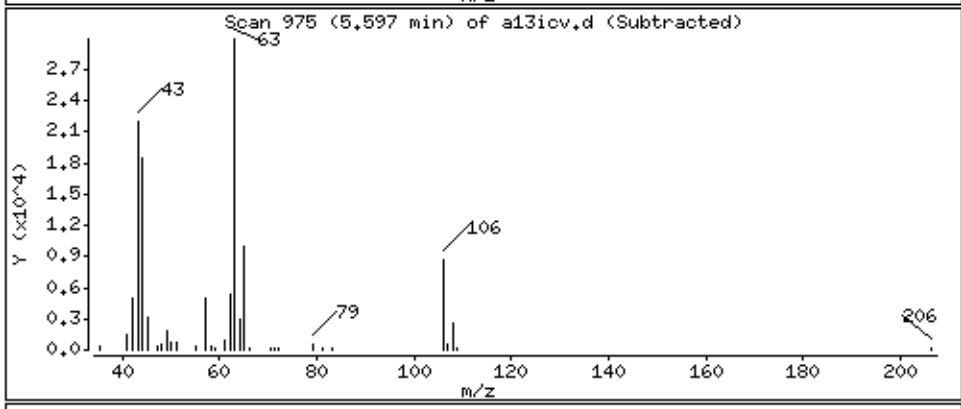
53 2-Chloroethyl vinyl ether

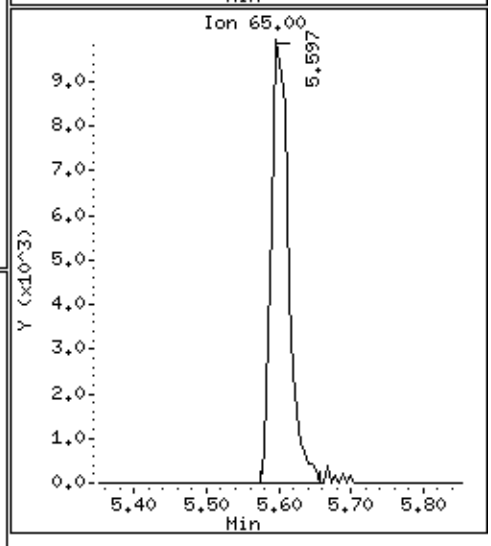
Concentration: 53.4 ppb

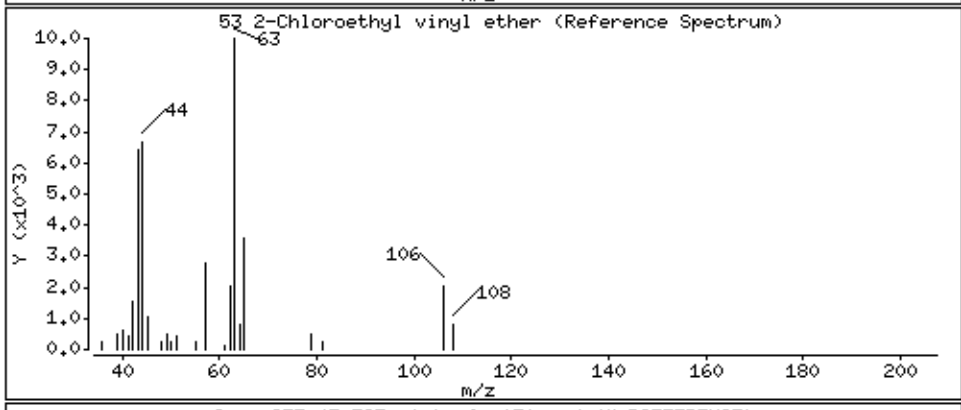
Review Code:

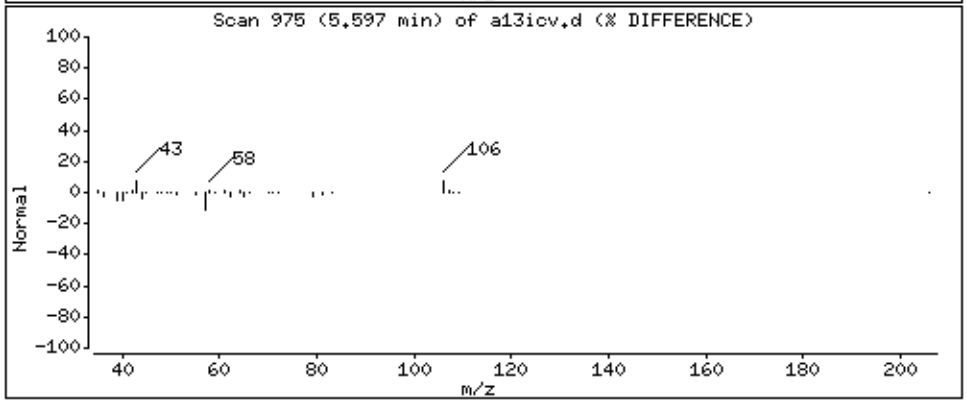












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

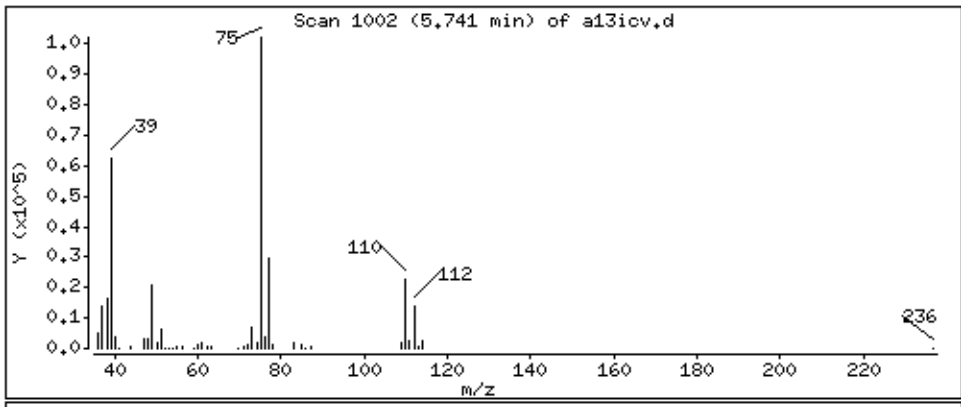
Column phase: DB-624

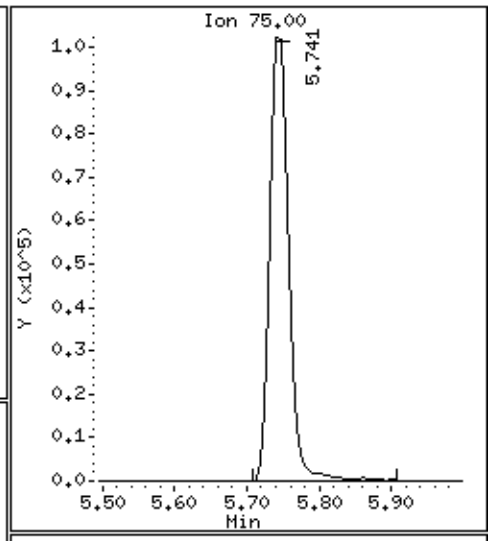
Column diameter: 0.18

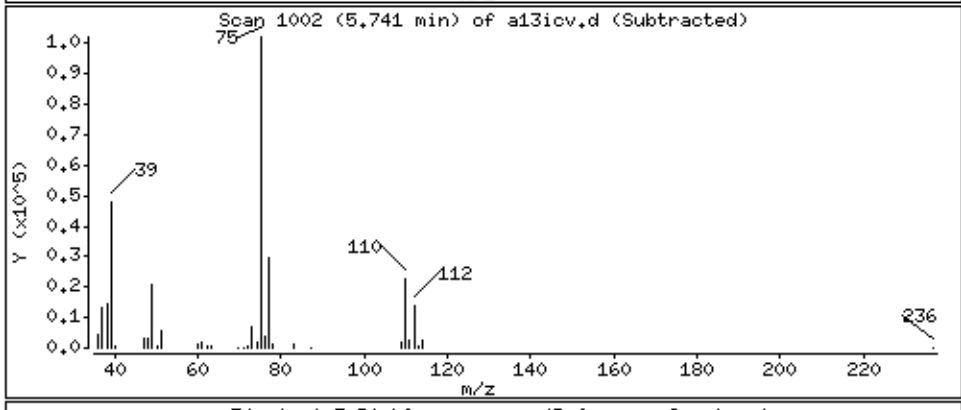
54 cis-1,3-Dichloropropene

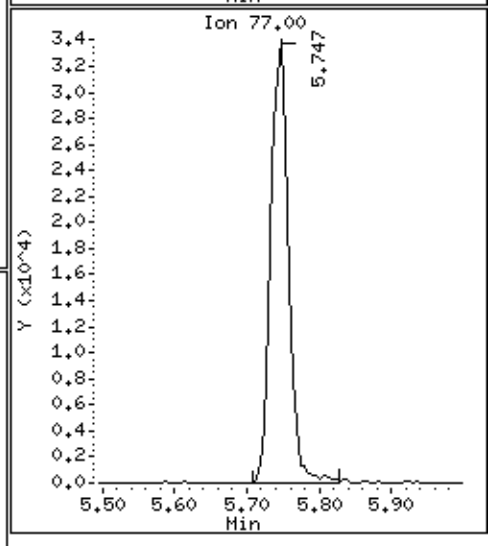
Concentration: 51.3 ppb

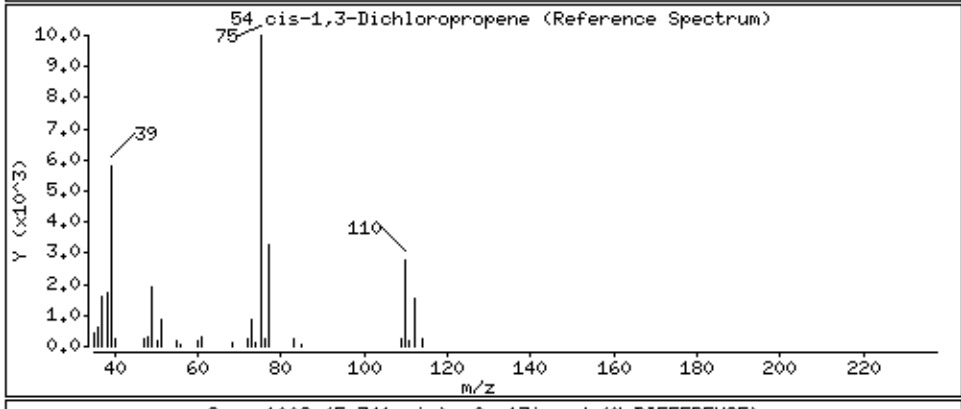
Review Code:

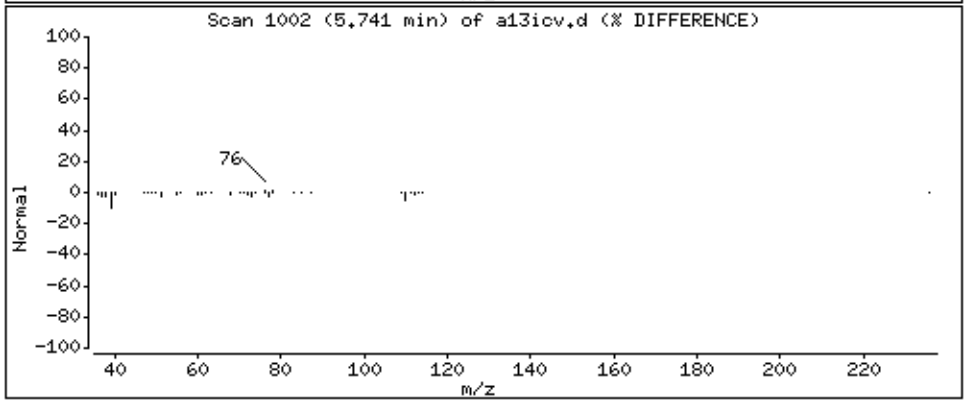












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 57

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

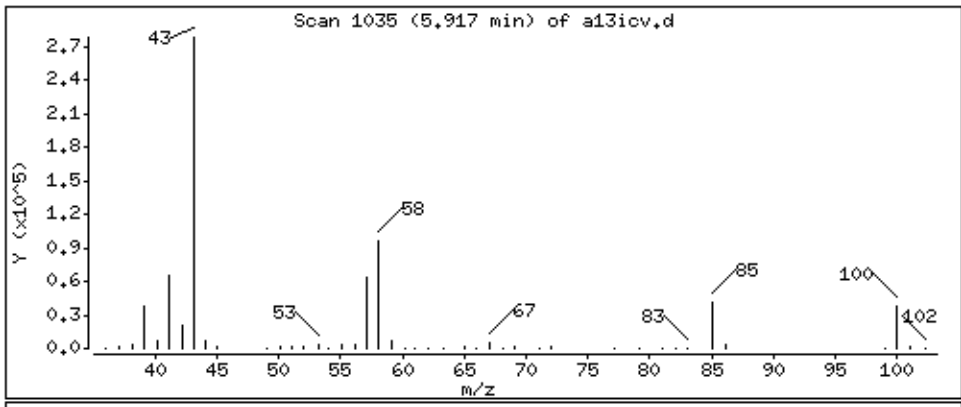
Column phase: DB-624

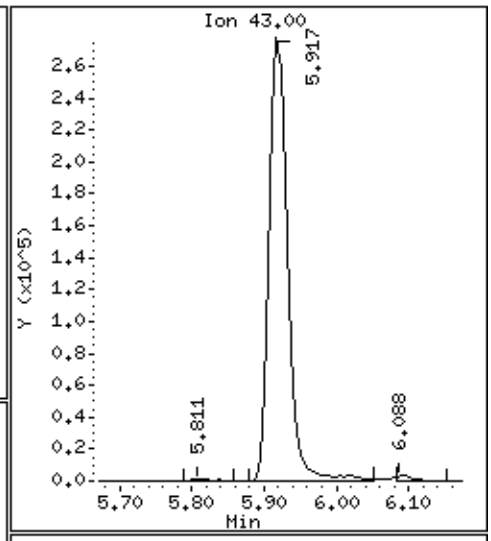
Column diameter: 0.18

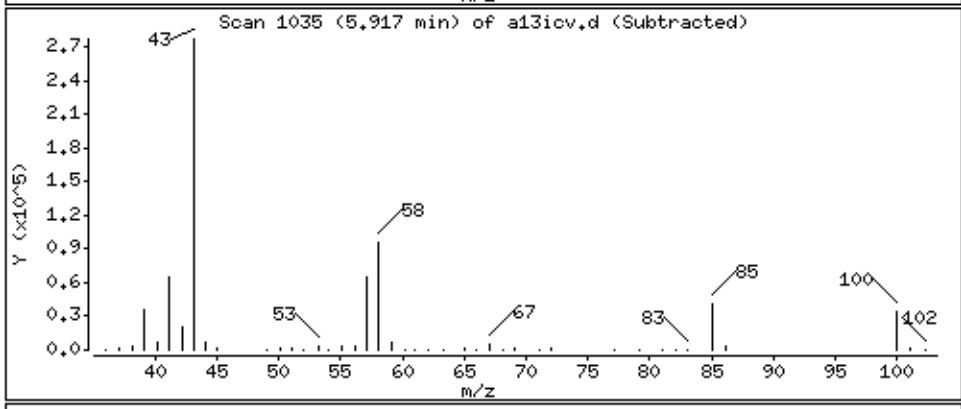
55 4-Methyl-2-Pentanone

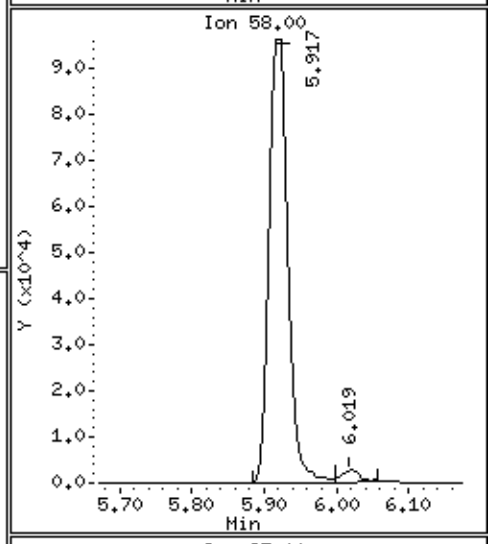
Concentration: 261 ppb

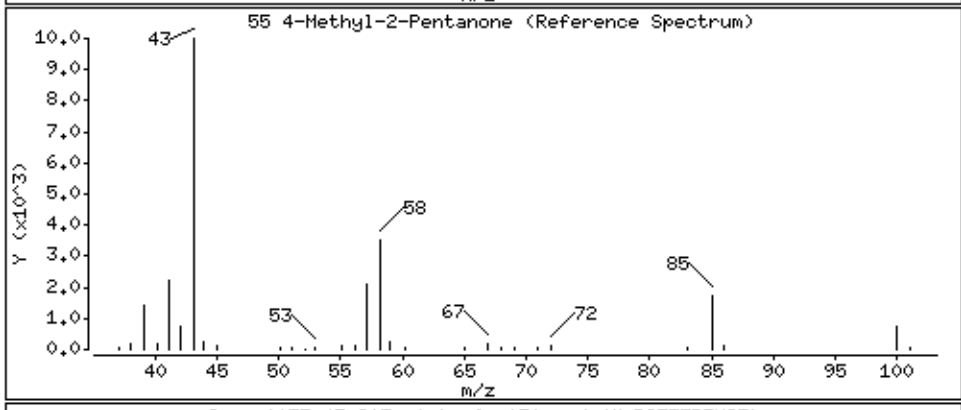
Review Code:

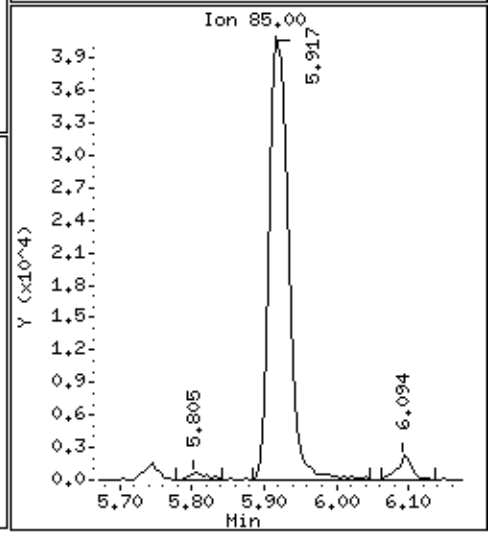


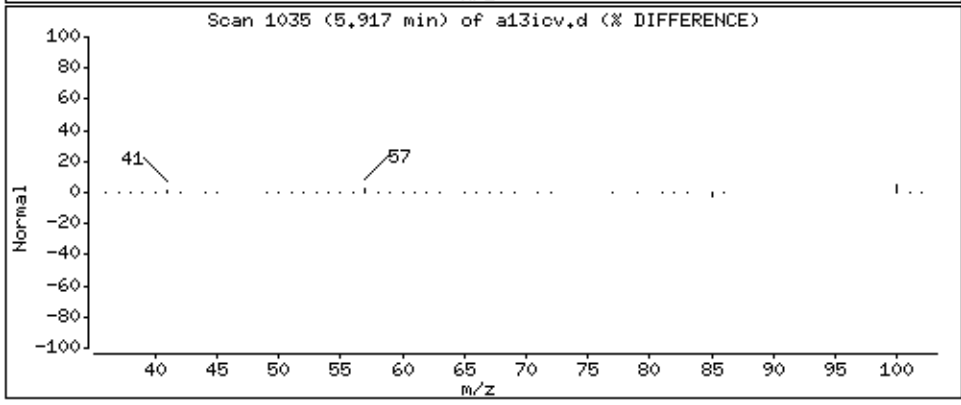












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

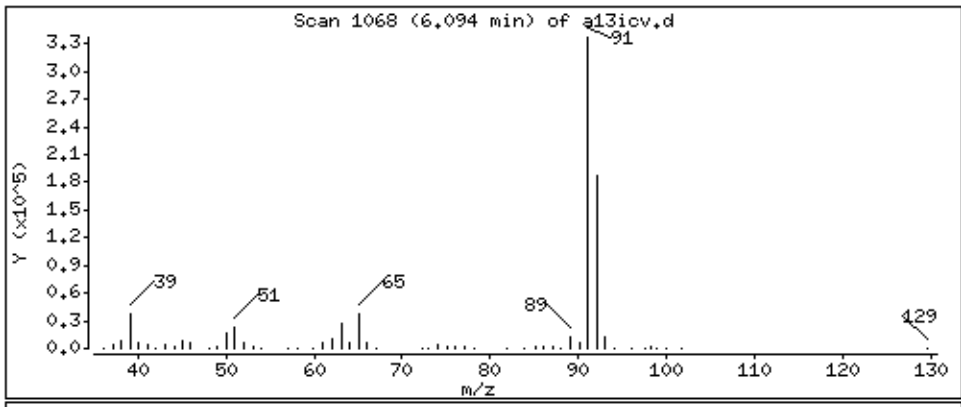
Column phase: DB-624

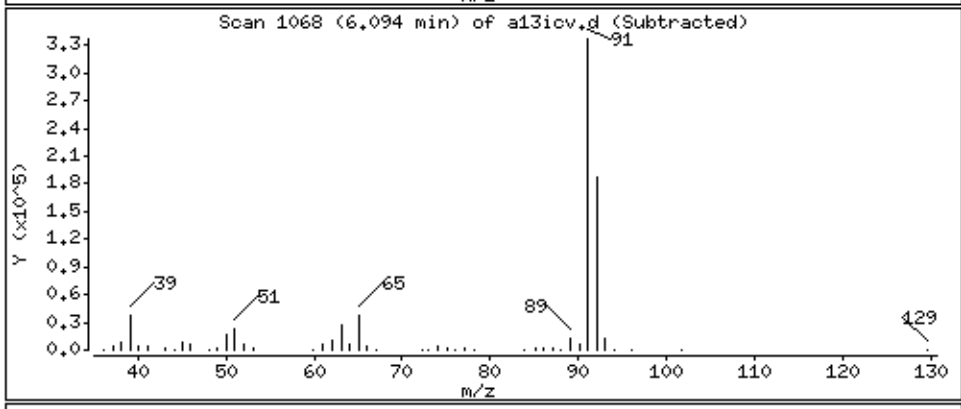
Column diameter: 0.18

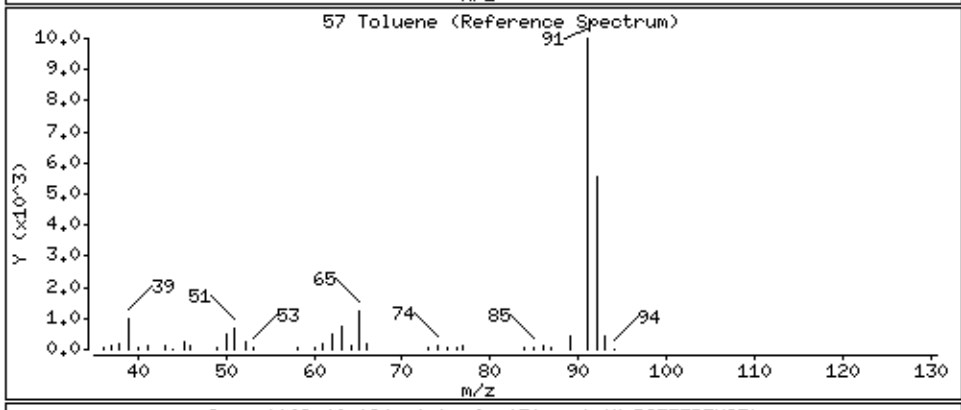
57 Toluene

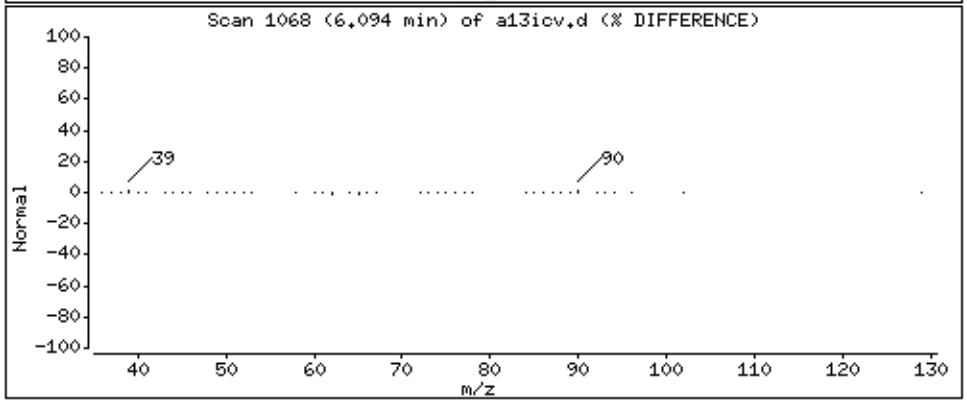
Concentration: 44.8 ppb

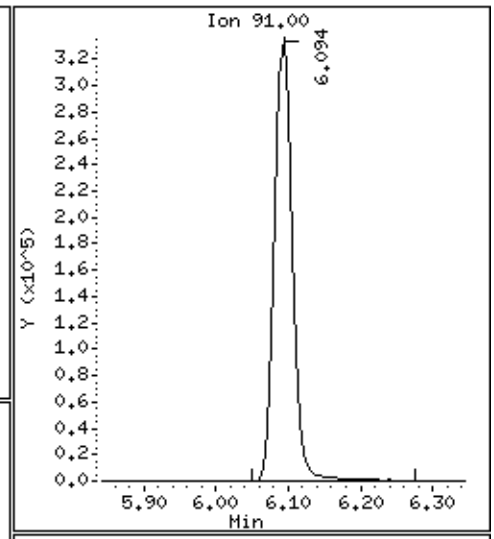
Review Code:

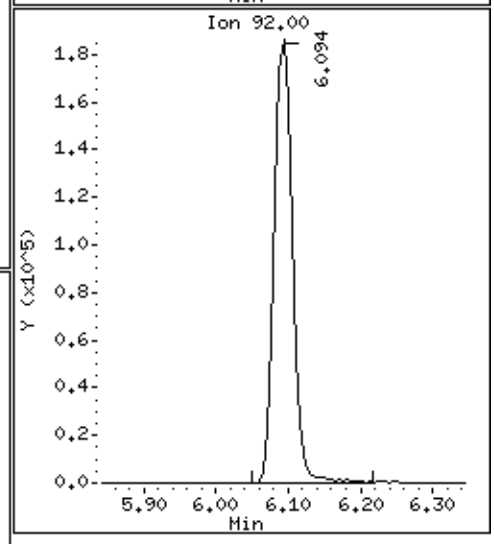












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

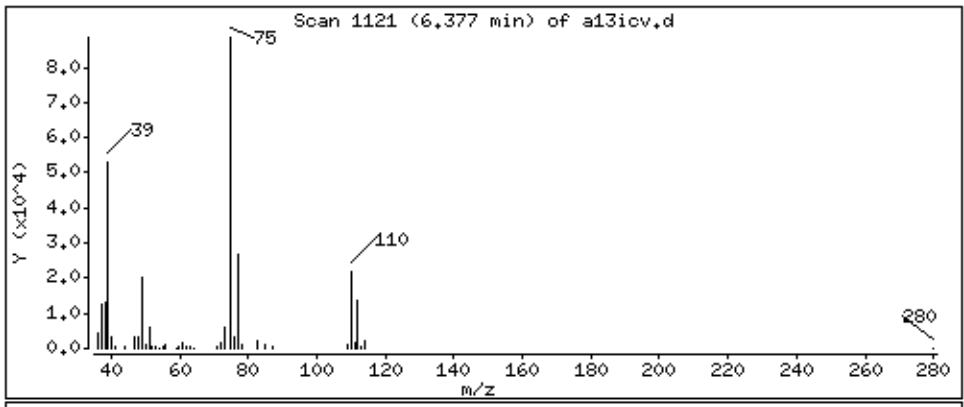
Column phase: DB-624

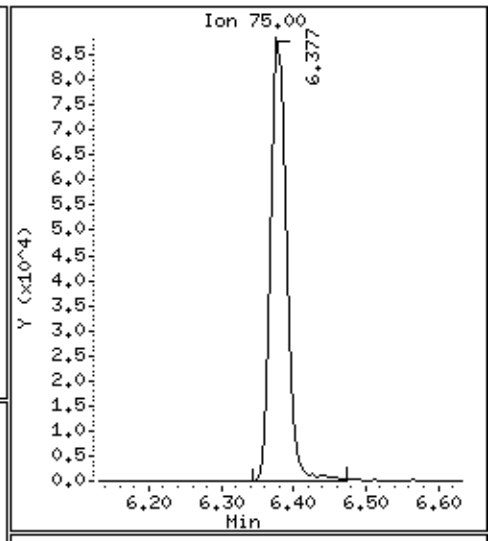
Column diameter: 0.18

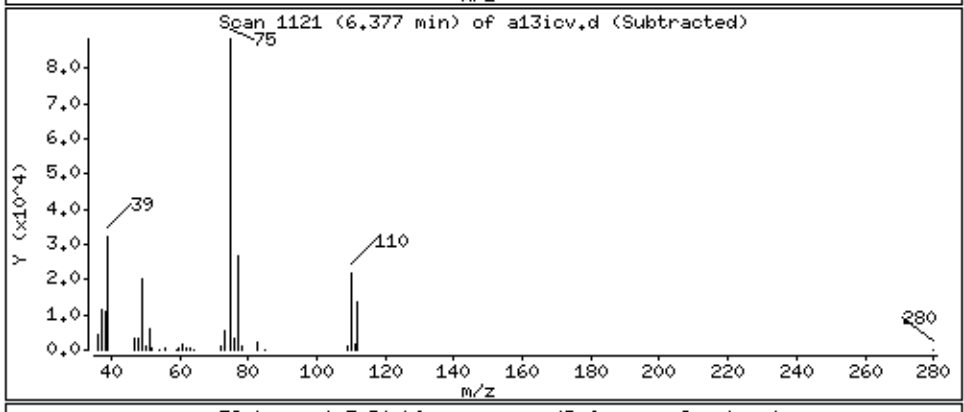
58 trans-1,3-Dichloropropene

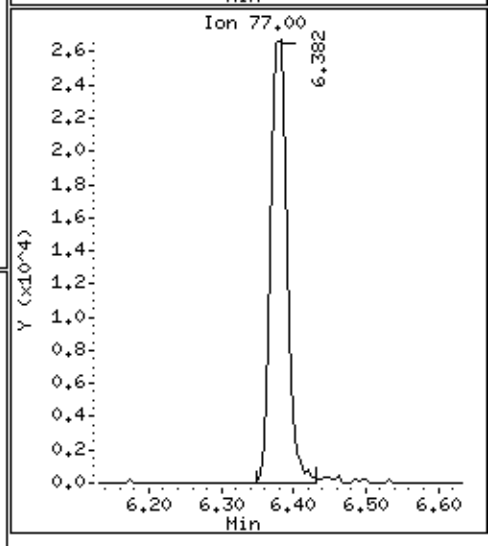
Concentration: 52.3 ppb

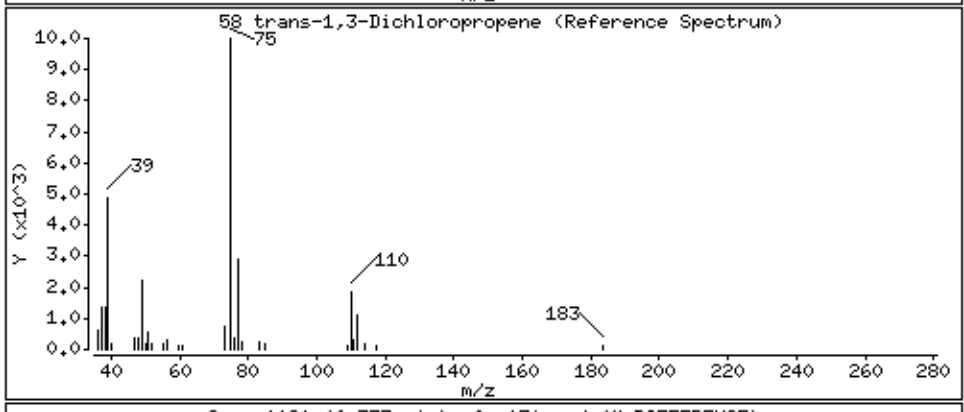
Review Code:

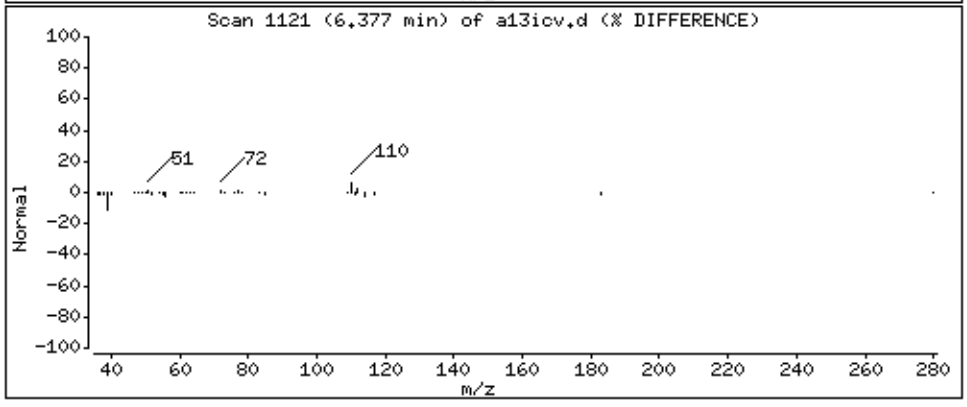












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

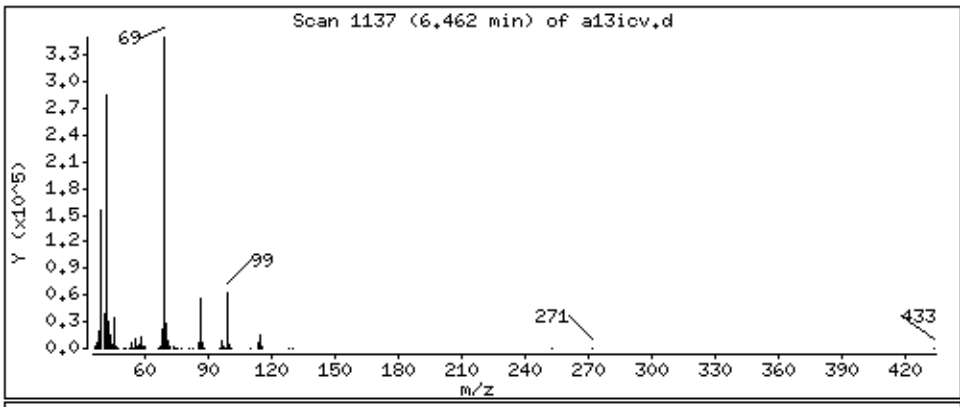
Column phase: DB-624

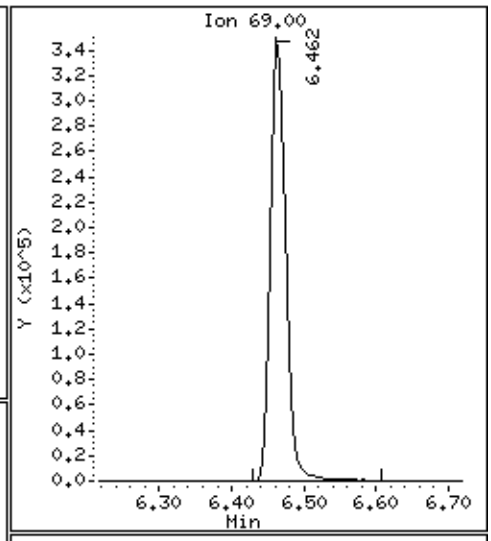
Column diameter: 0.18

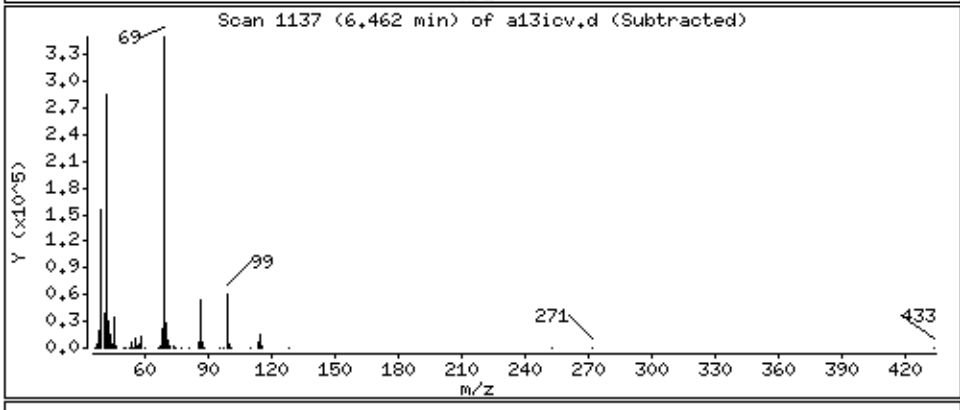
59 Ethyl Methacrylate

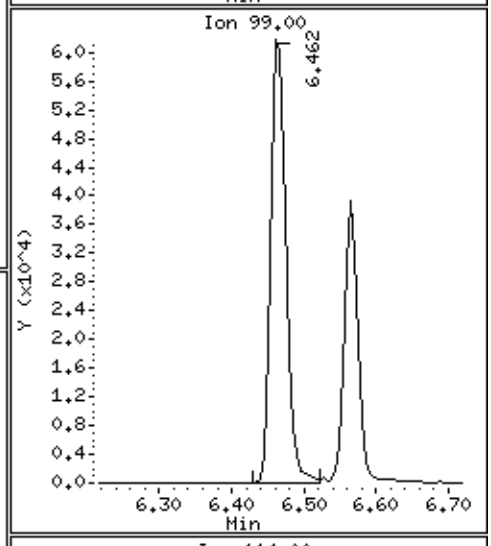
Concentration: 231 ppb

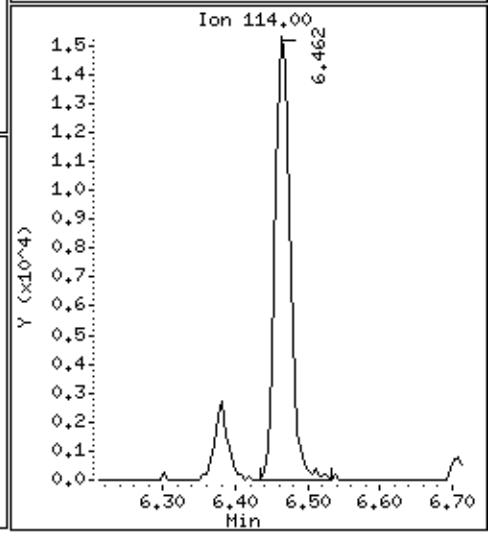
Review Code:











Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 61

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

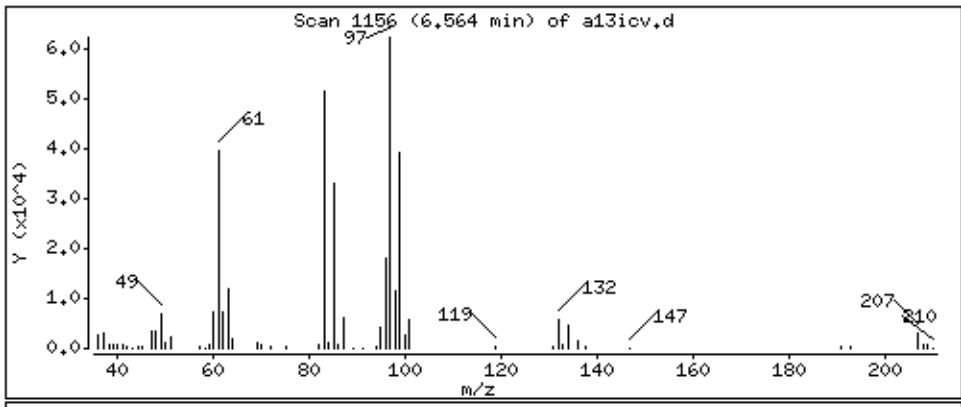
Column phase: DB-624

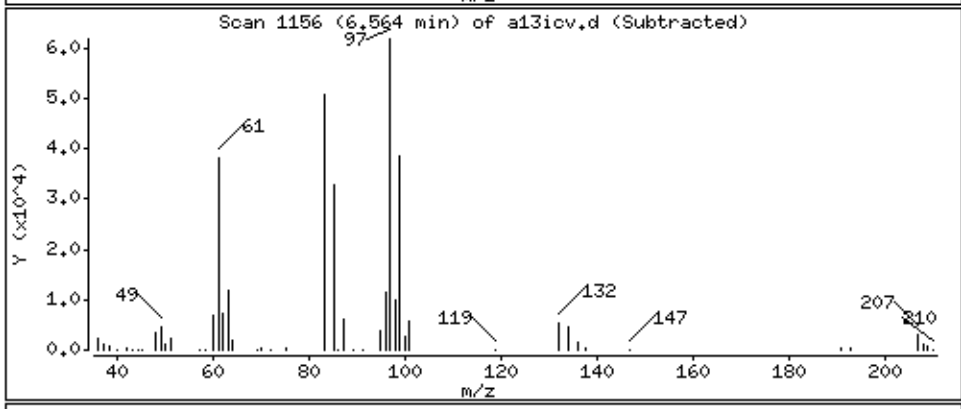
Column diameter: 0.18

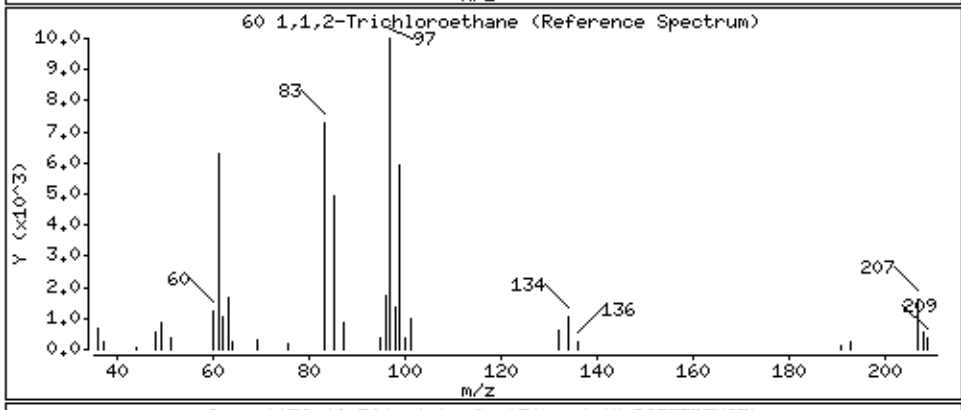
60 1,1,2-Trichloroethane

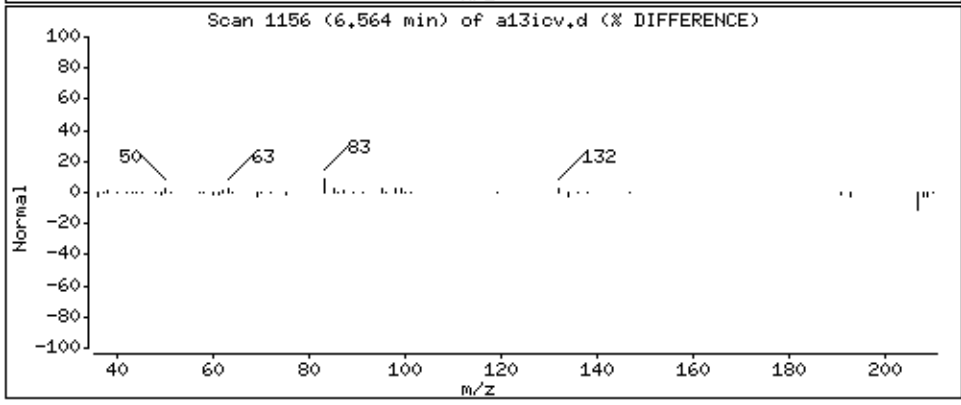
Concentration: 48.0 ppb

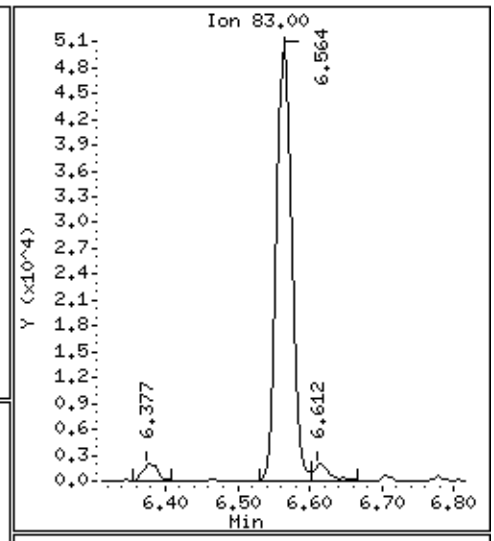
Review Code:

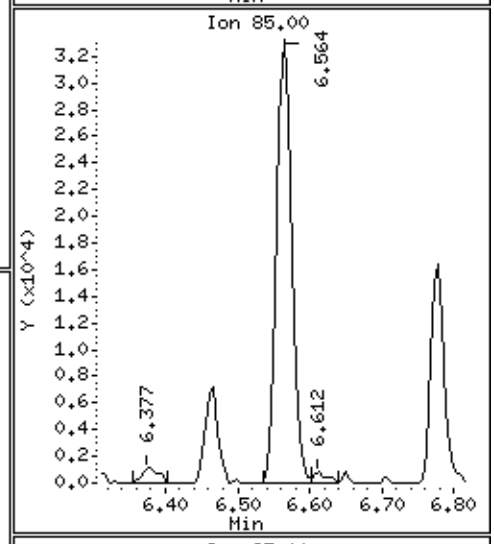


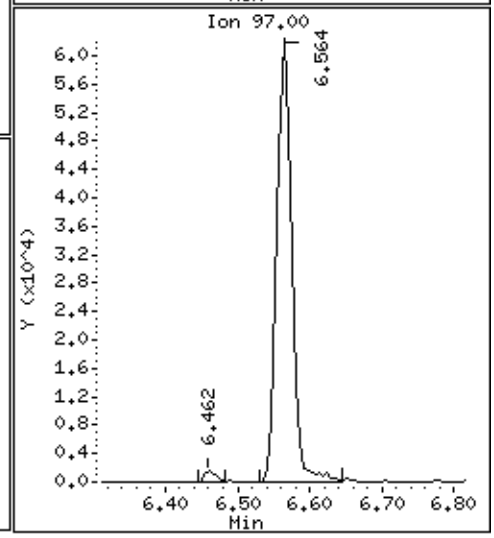












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

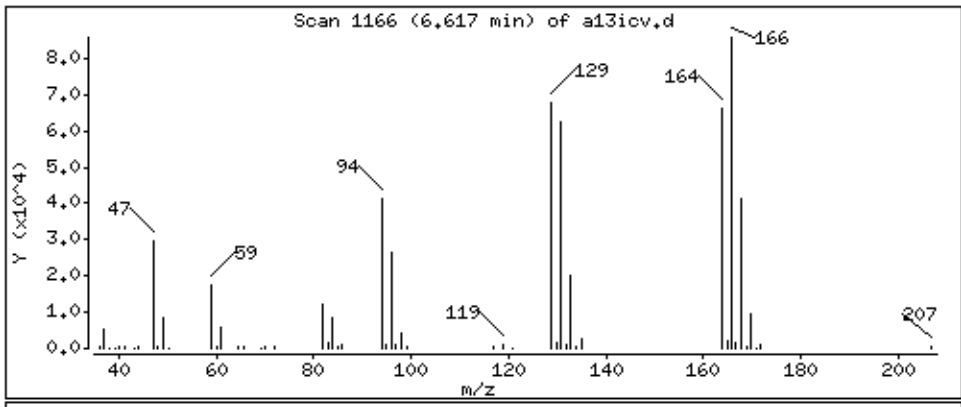
Column phase: DB-624

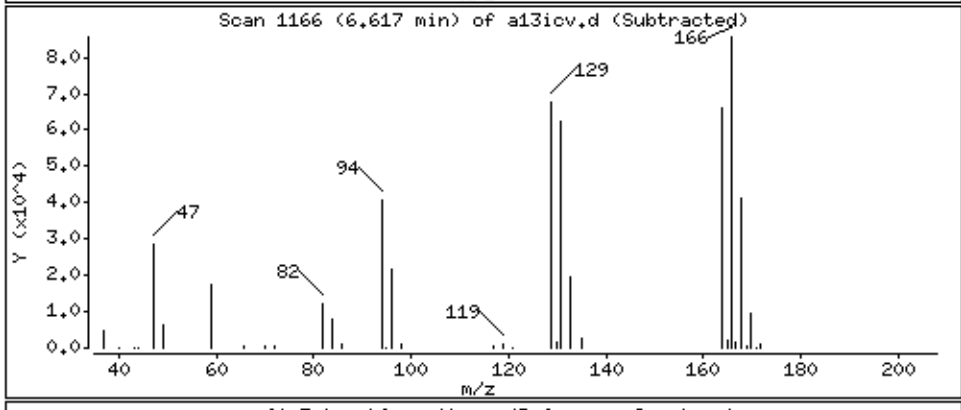
Column diameter: 0.18

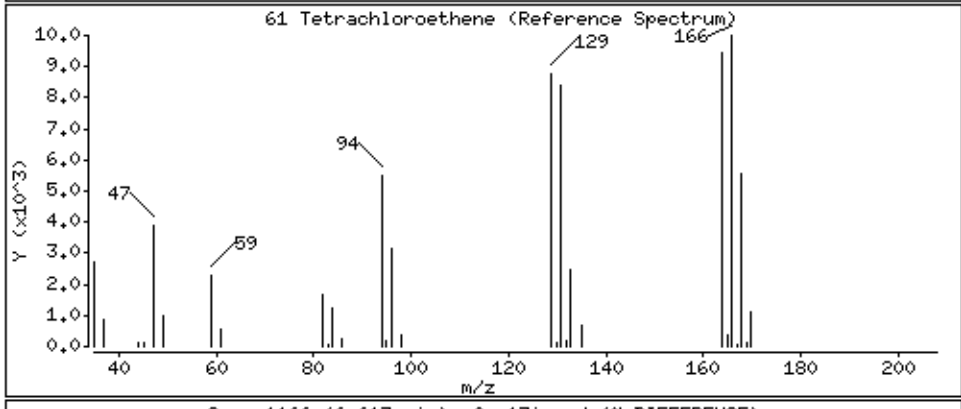
61 Tetrachloroethene

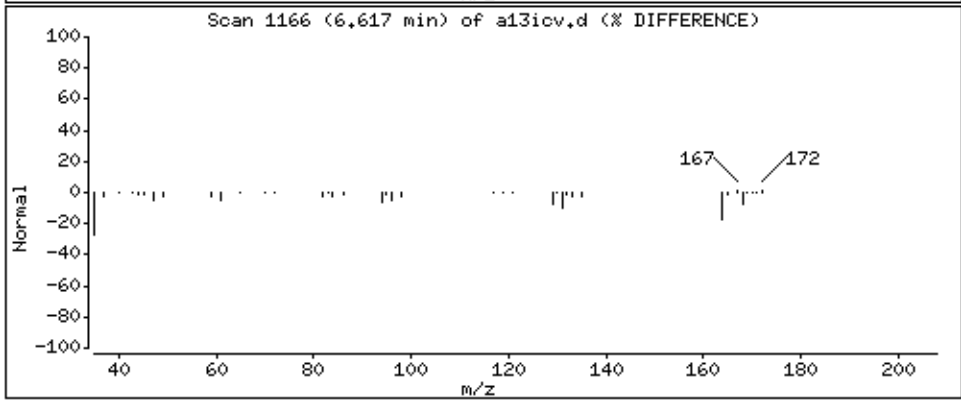
Concentration: 47.3 ppb

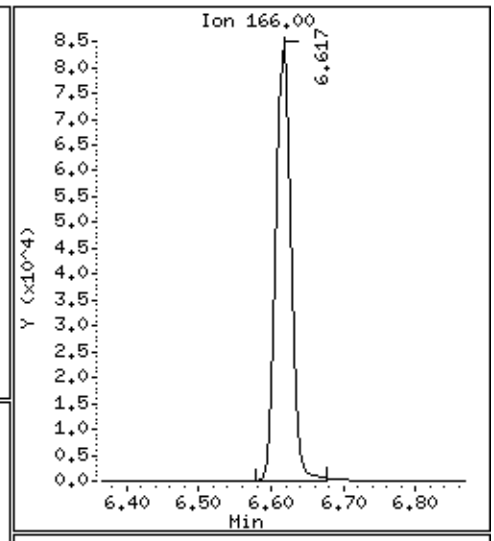
Review Code:

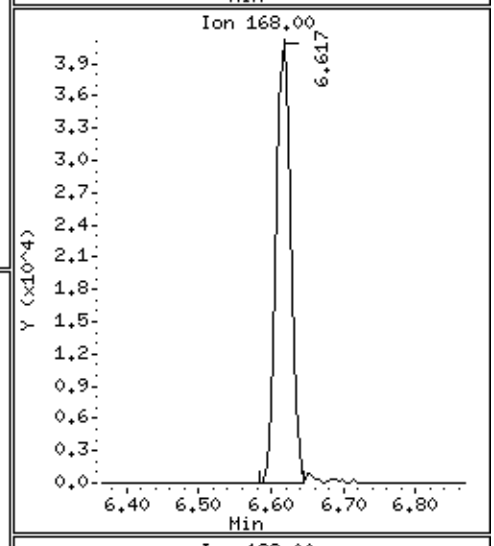


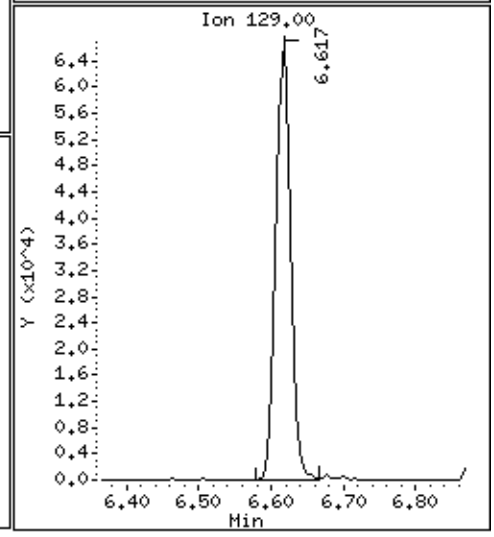












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

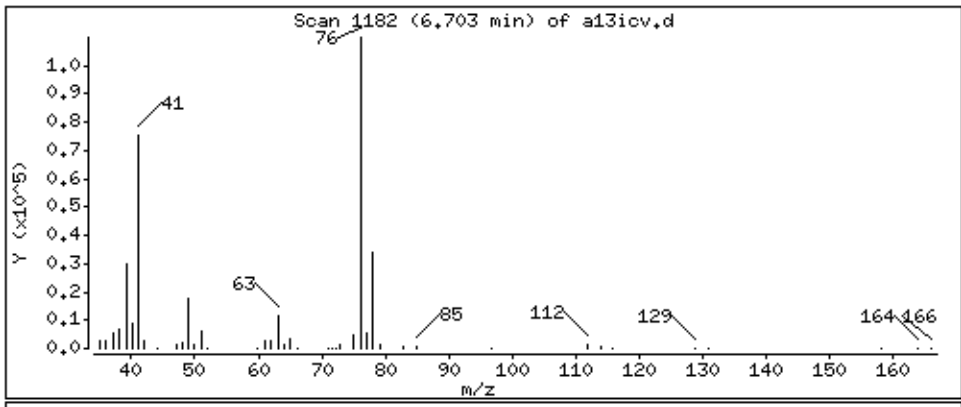
Column phase: DB-624

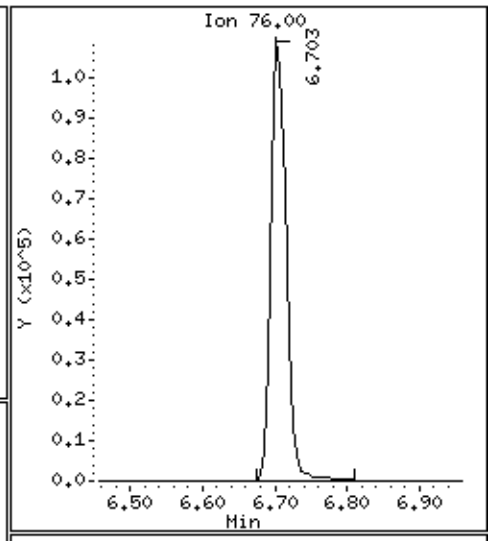
Column diameter: 0.18

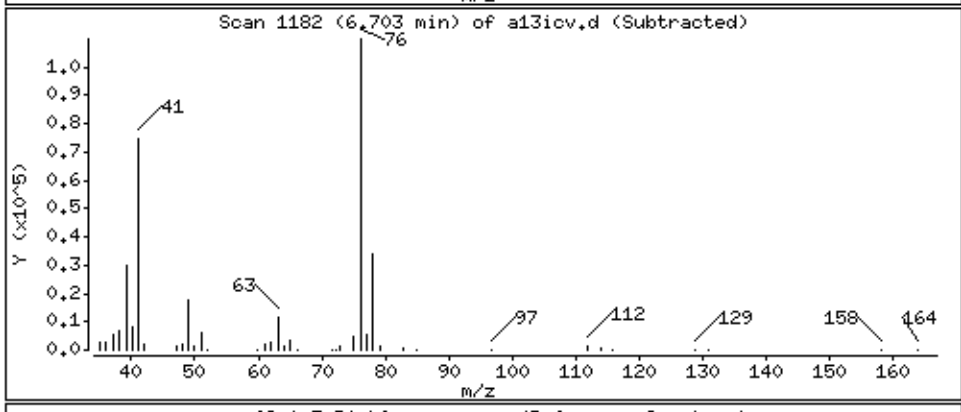
62 1,3-Dichloropropane

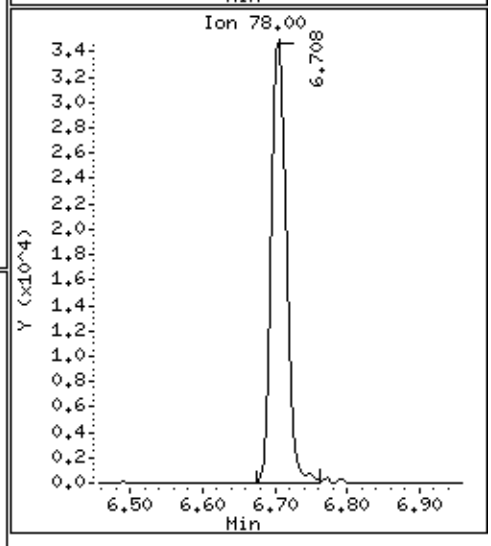
Concentration: 49.6 ppb

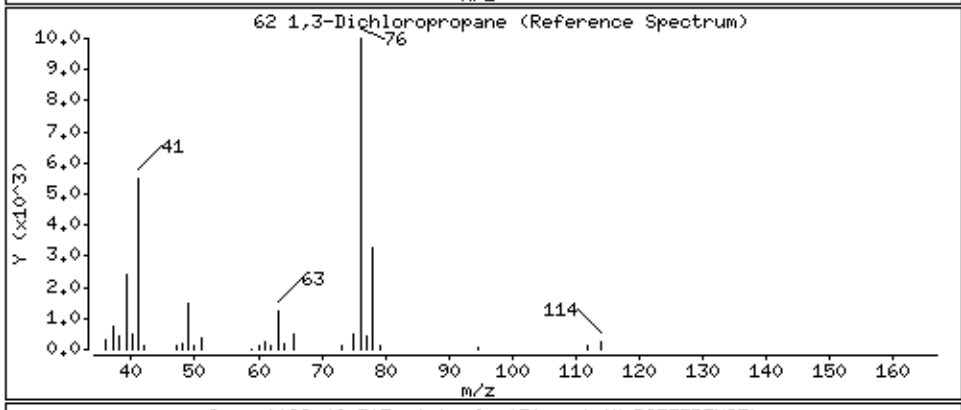
Review Code:

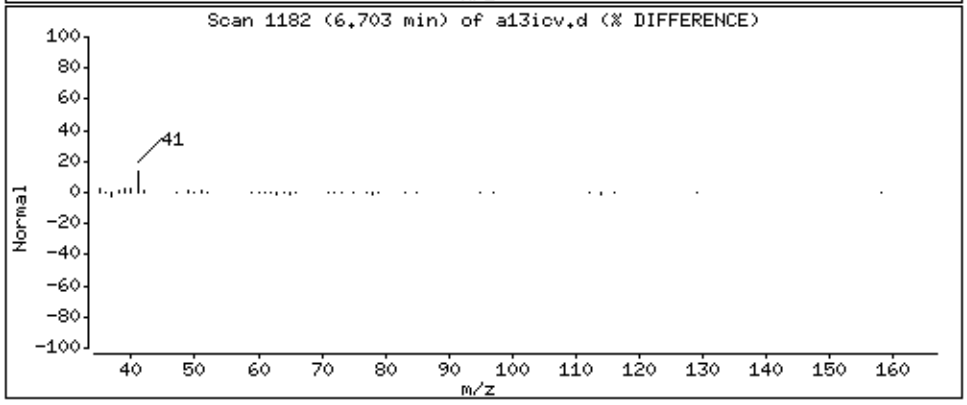












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

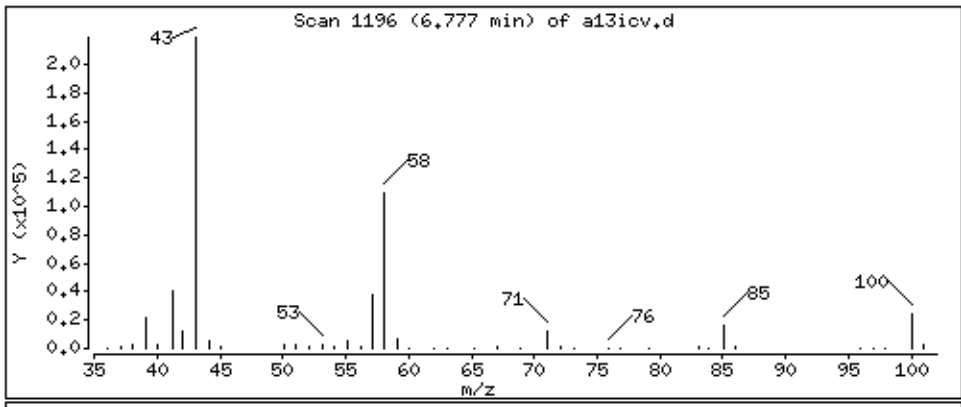
Column phase: DB-624

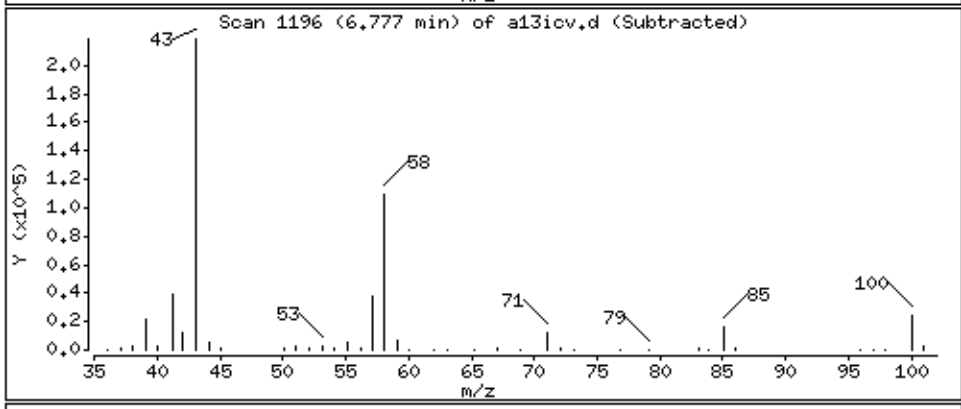
Column diameter: 0.18

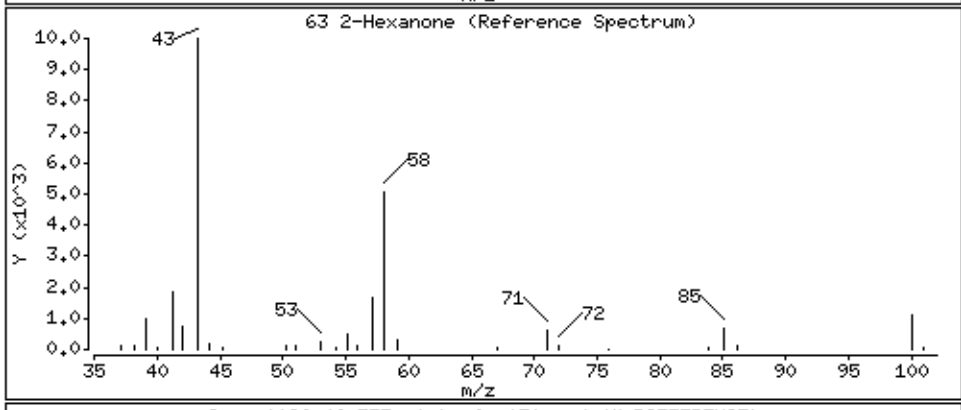
63 2-Hexanone

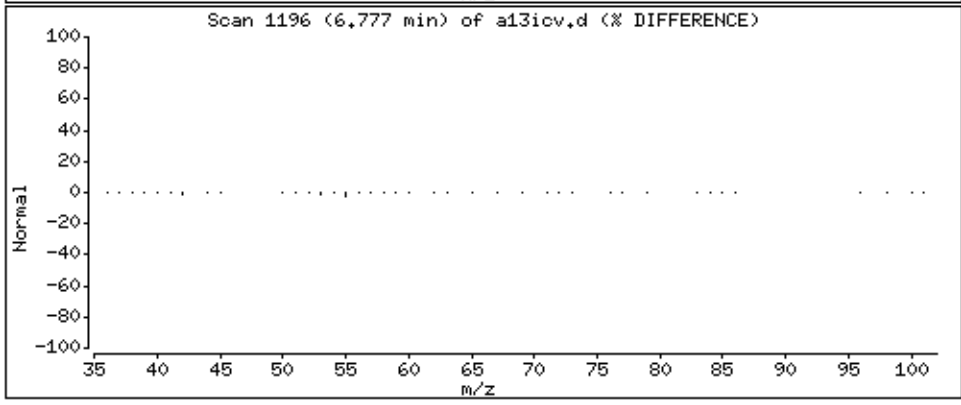
Concentration: 263 ppb

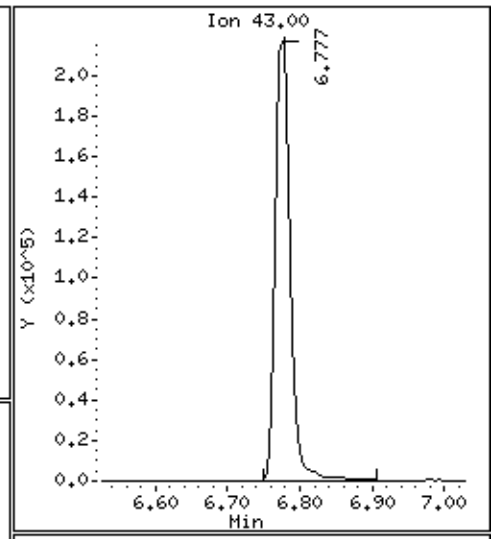
Review Code:

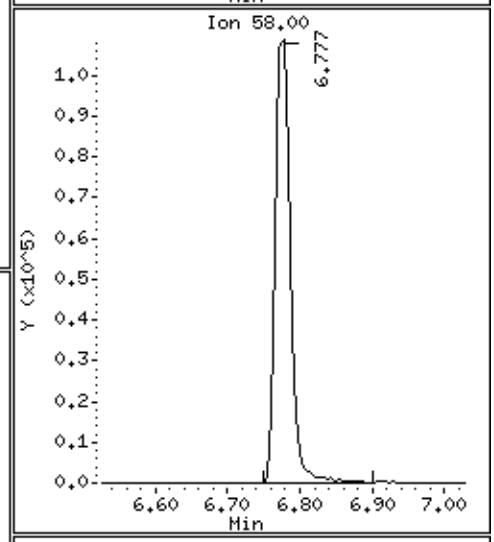


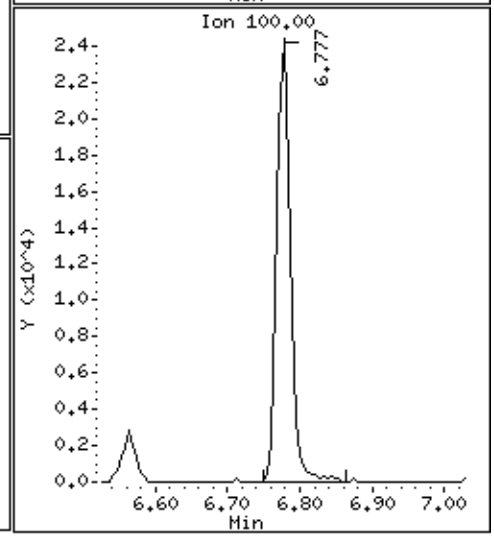












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

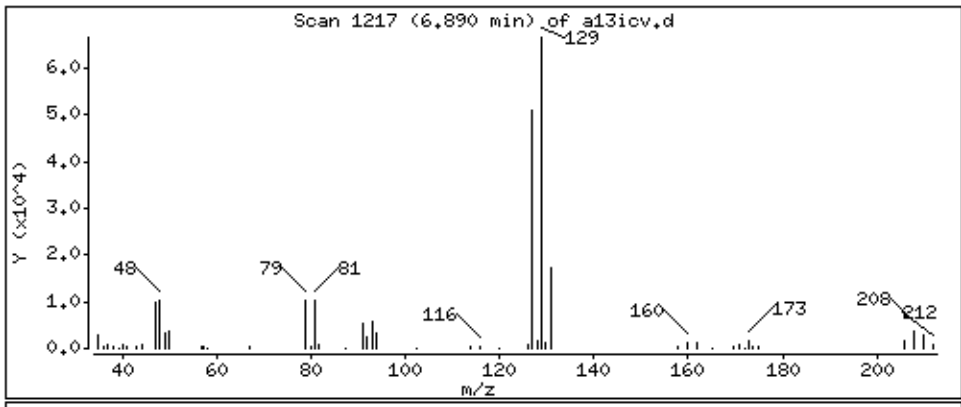
Column phase: DB-624

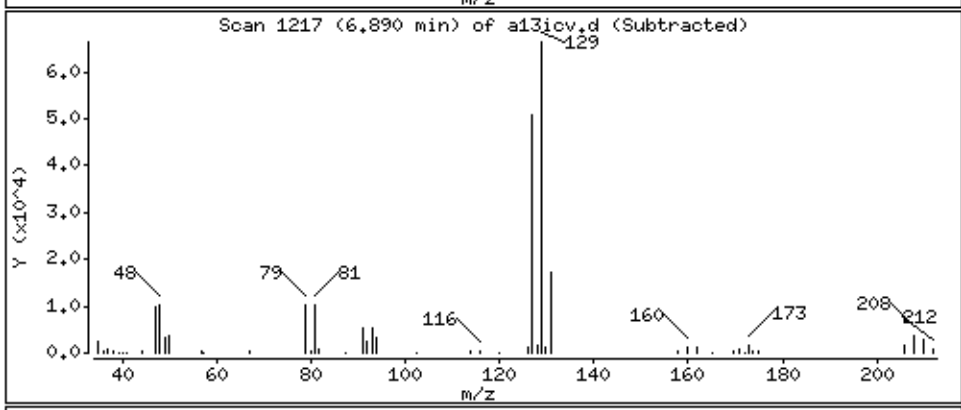
Column diameter: 0.18

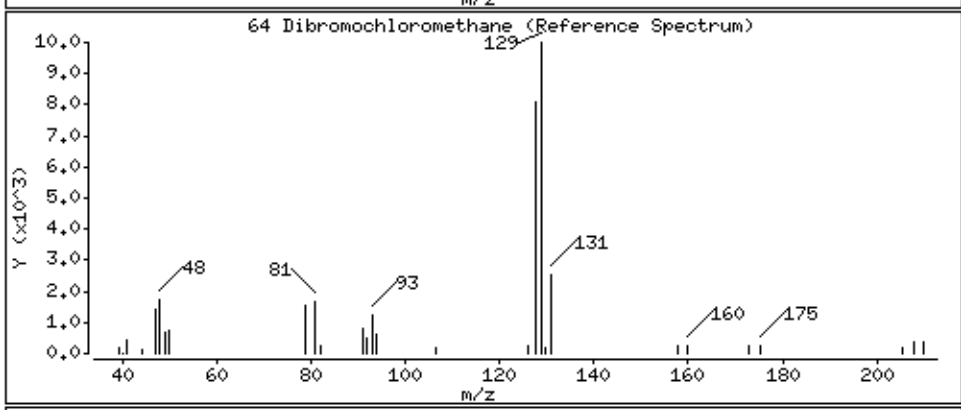
64 Dibromochloromethane

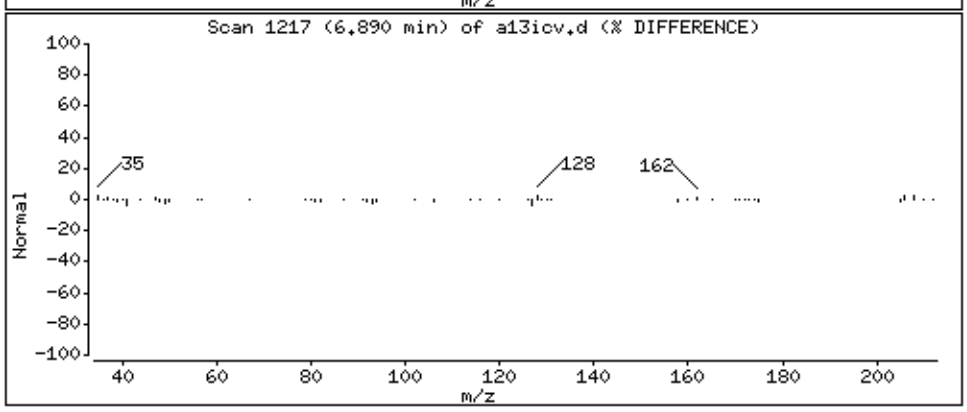
Concentration: 51.0 ppb

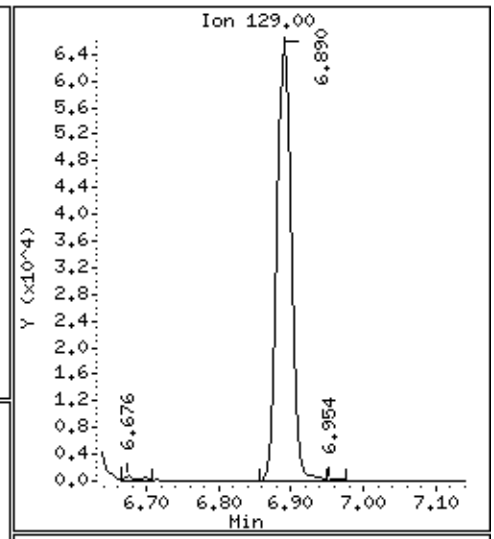
Review Code:

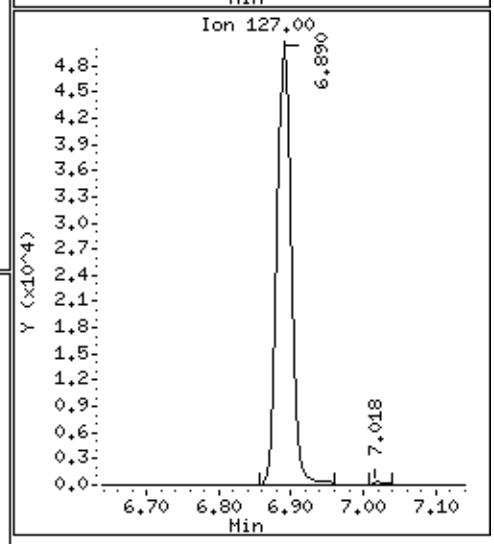












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

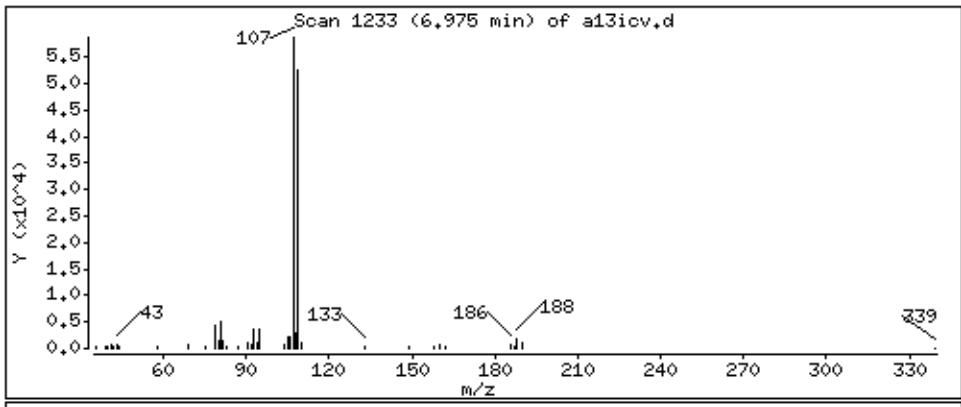
Column phase: DB-624

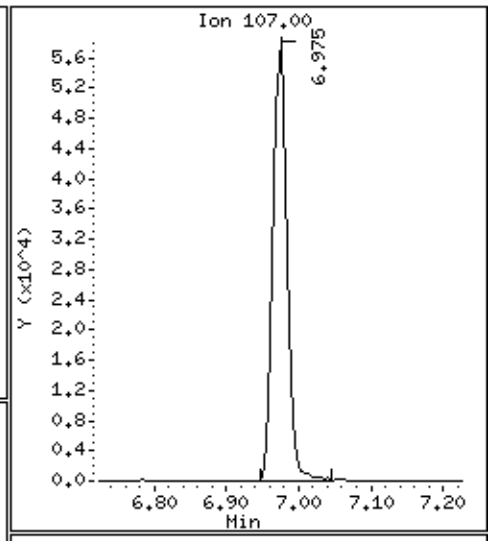
Column diameter: 0.18

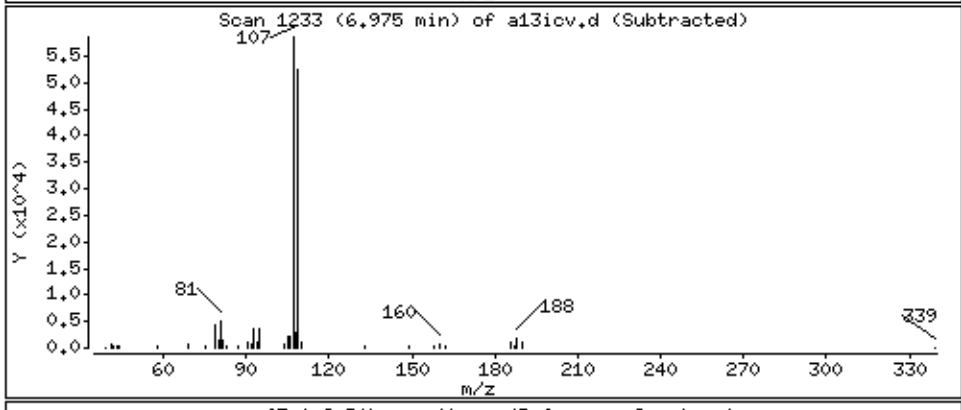
65 1,2-Dibromoethane

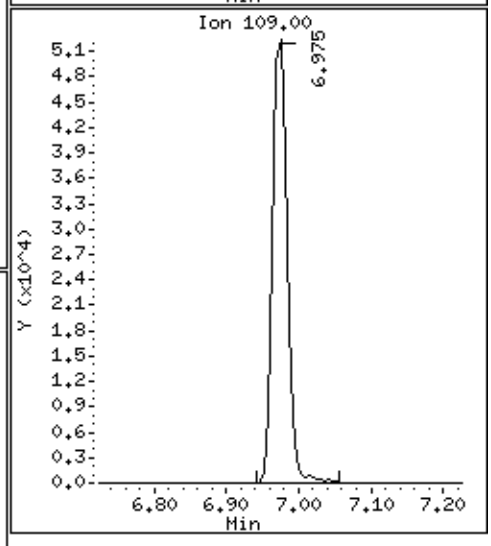
Concentration: 51.1 ppb

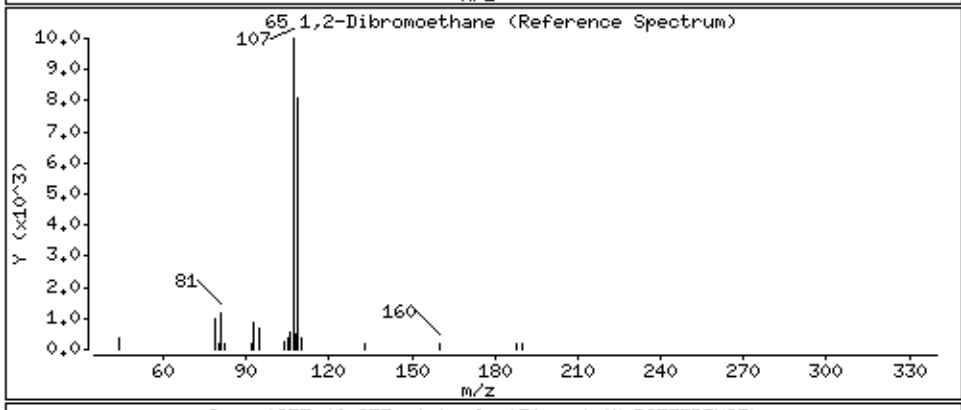
Review Code:

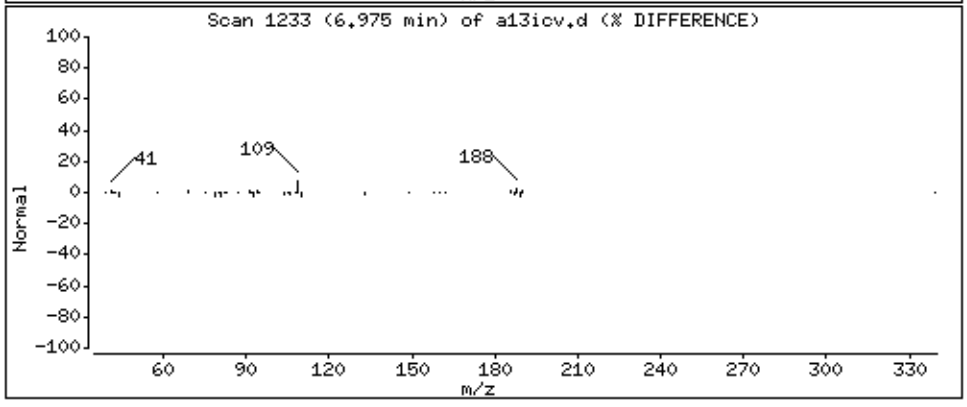












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

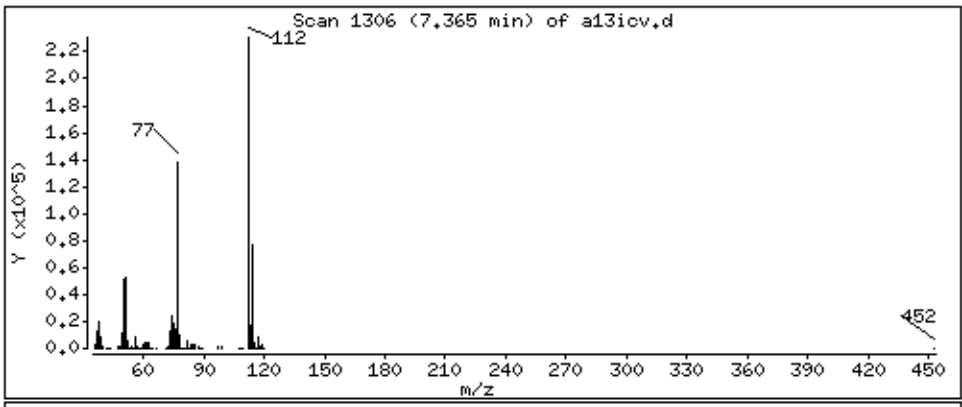
Column phase: DB-624

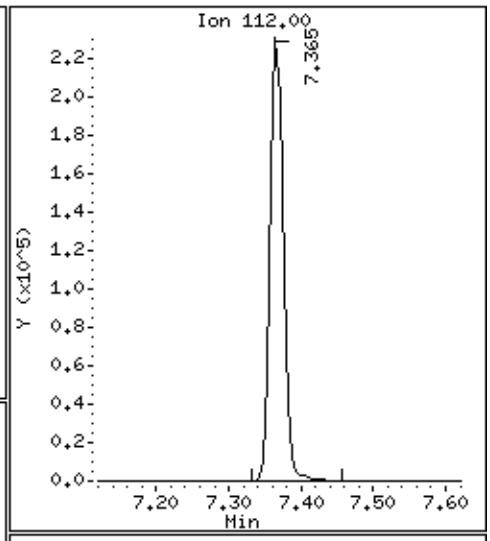
Column diameter: 0.18

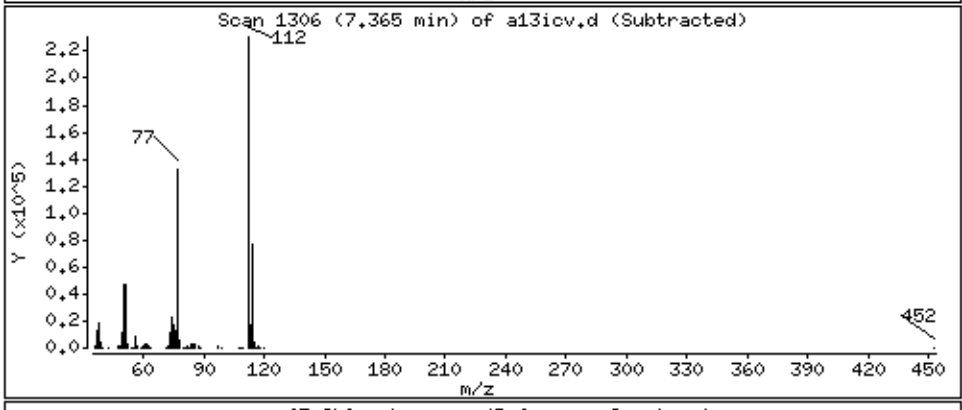
67 Chlorobenzene

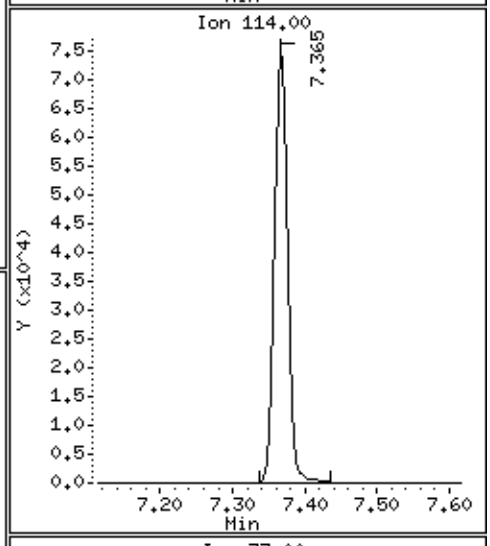
Concentration: 47.8 ppb

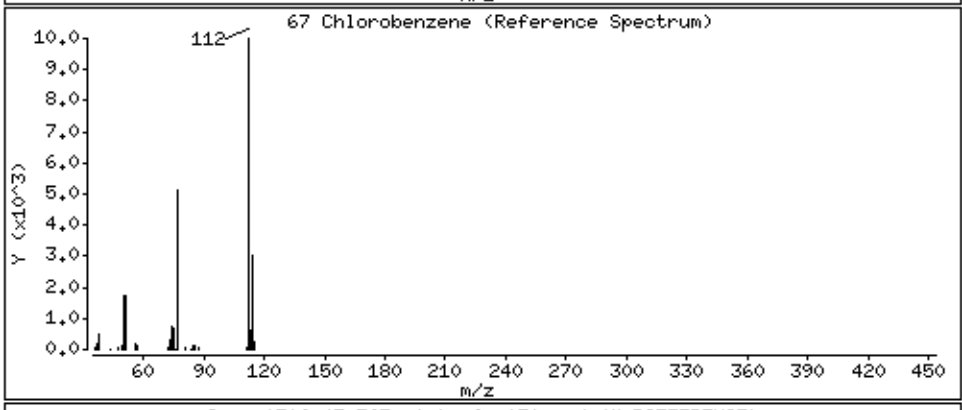
Review Code:

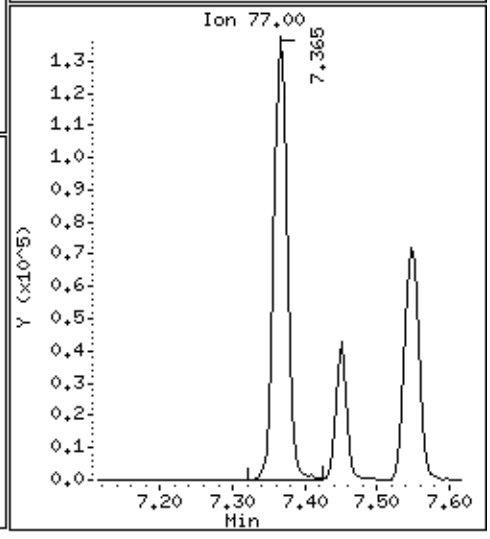


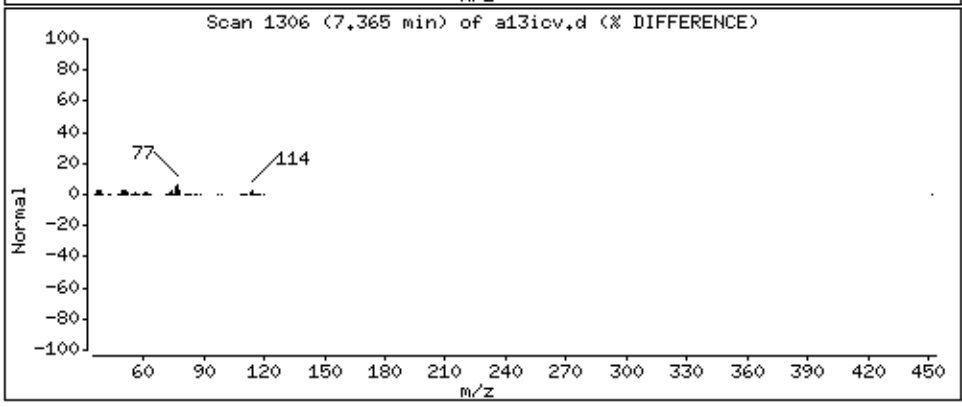












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

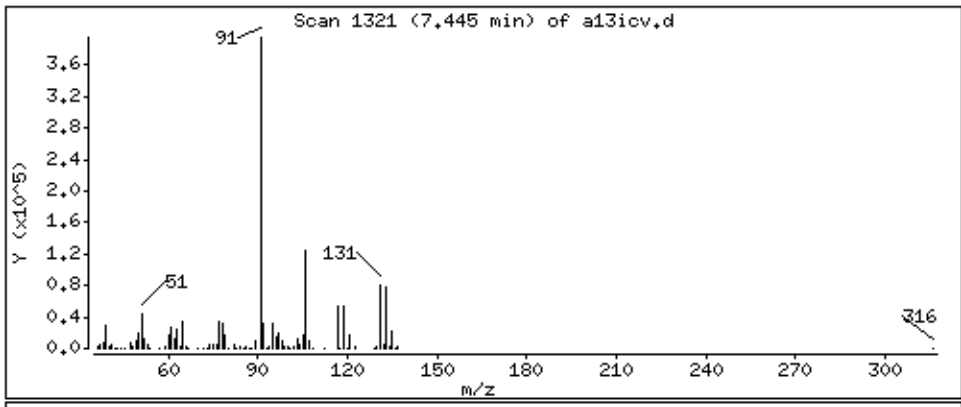
Column phase: DB-624

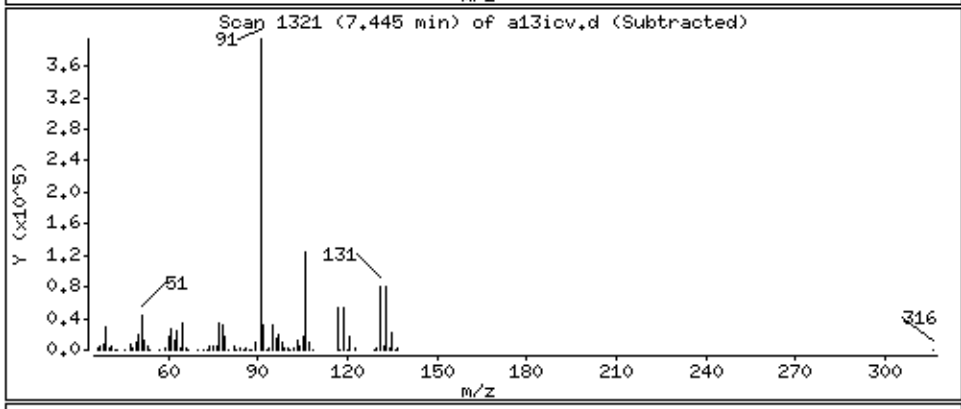
Column diameter: 0.18

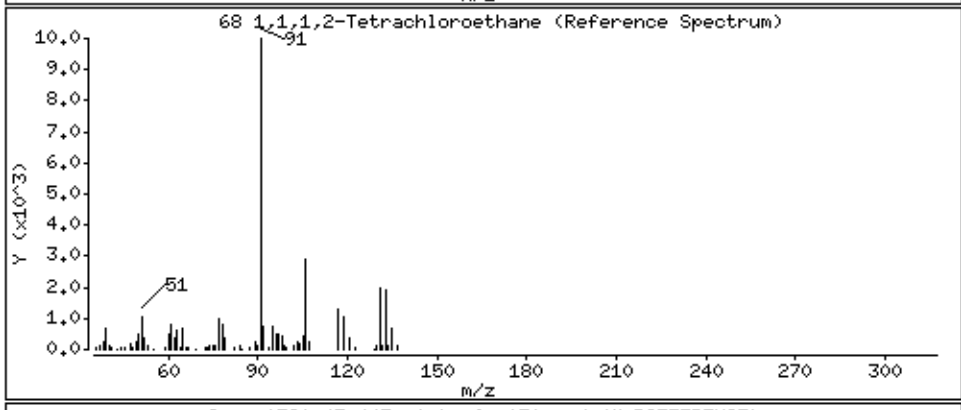
68 1,1,1,2-Tetrachloroethane

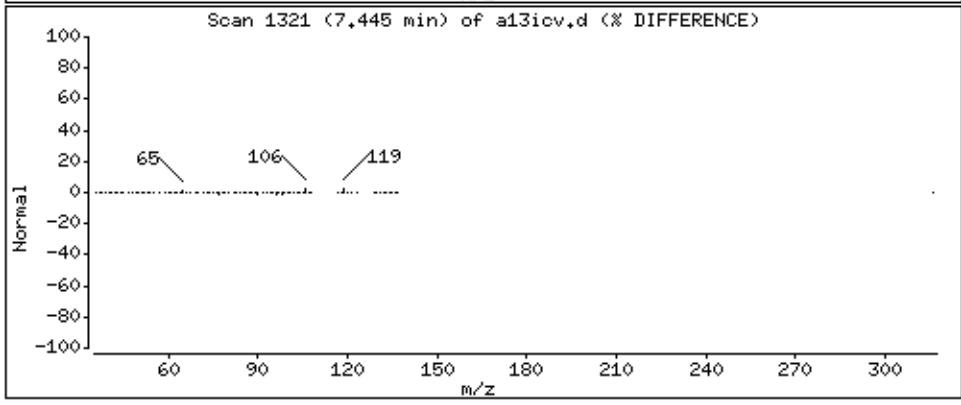
Concentration: 50.9 ppb

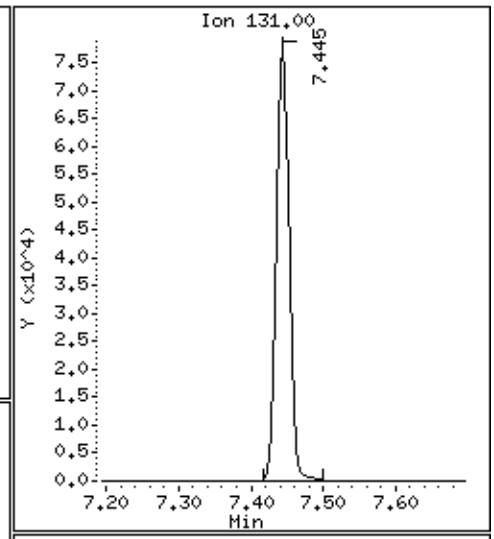
Review Code:

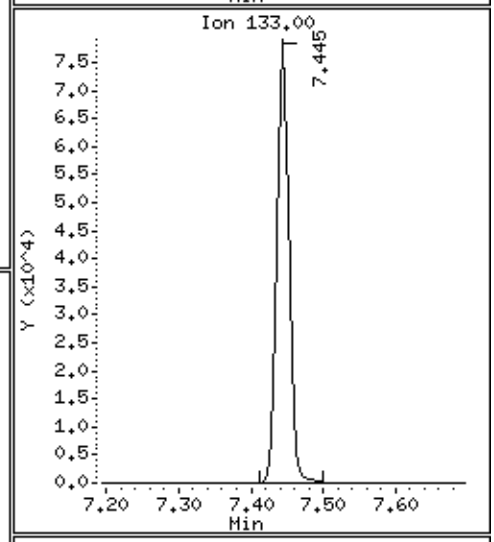


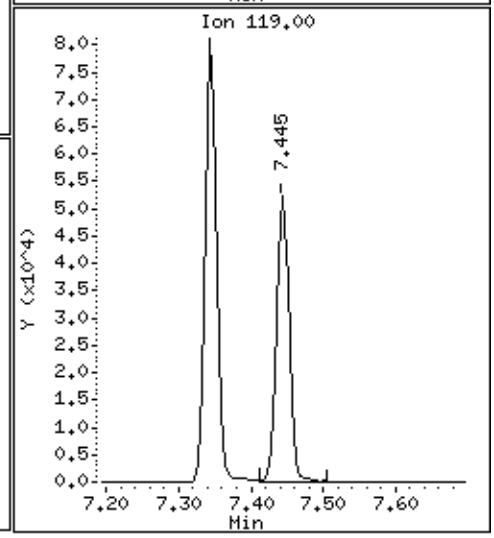












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

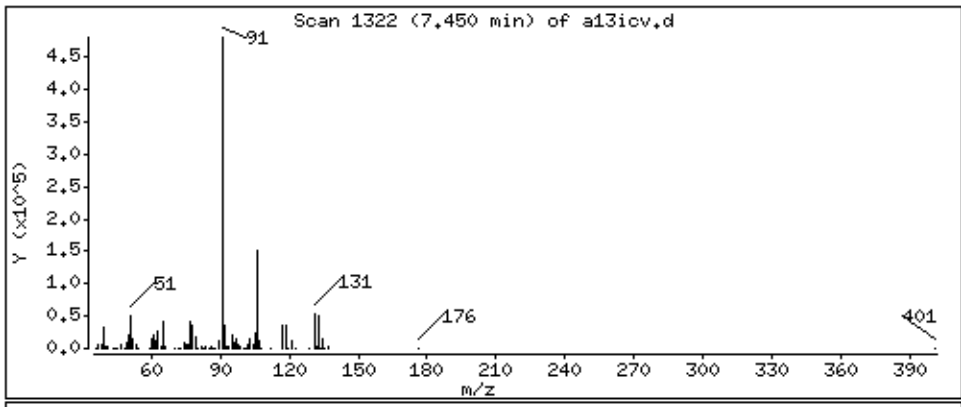
Column phase: DB-624

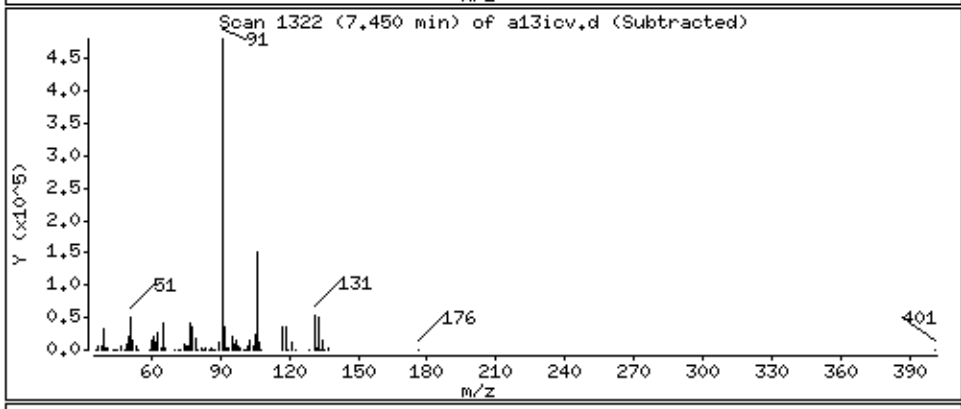
Column diameter: 0.18

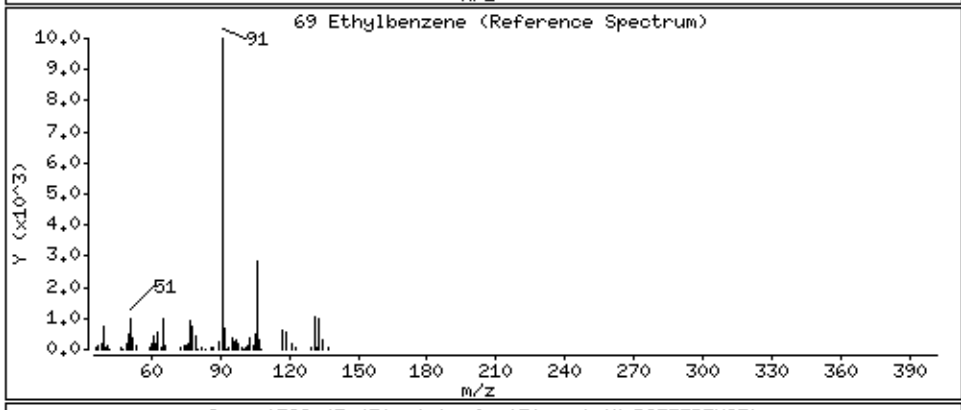
69 Ethylbenzene

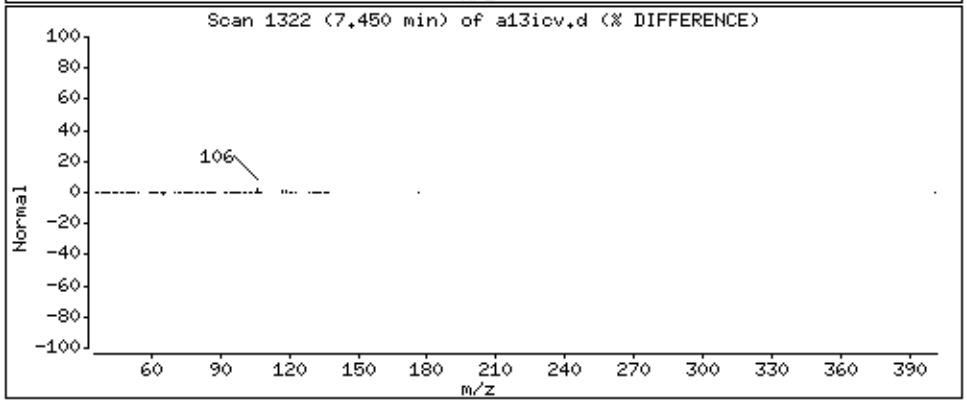
Concentration: 49.7 ppb

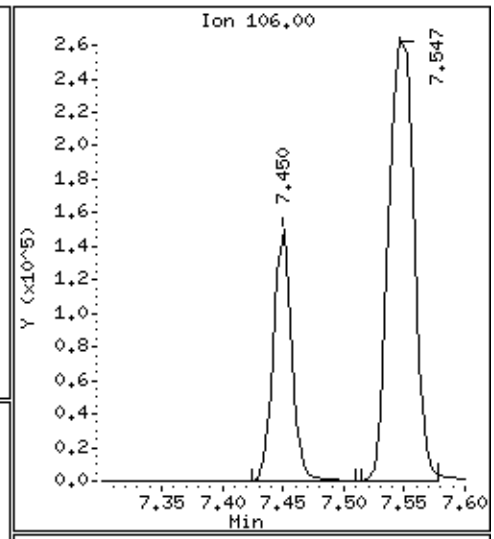
Review Code:

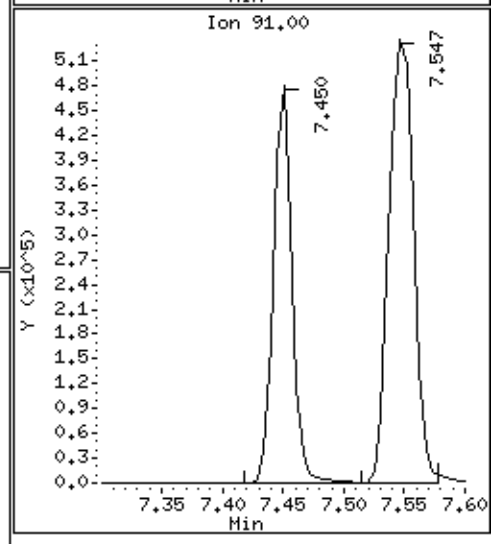












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 70

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

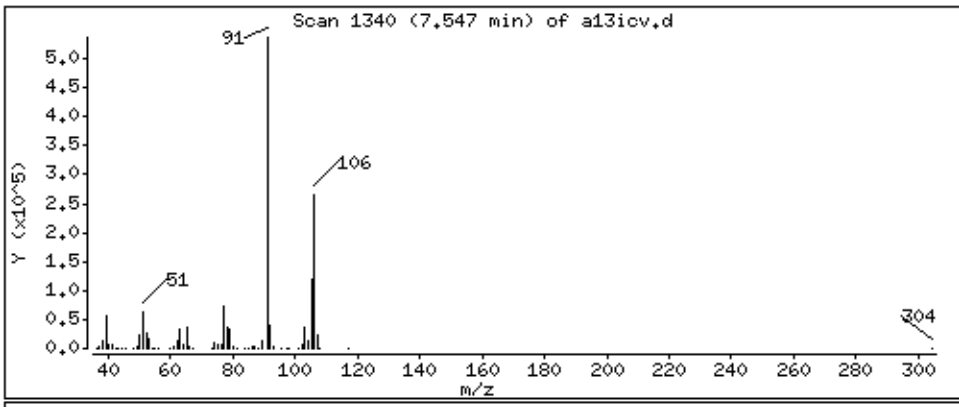
Column phase: DB-624

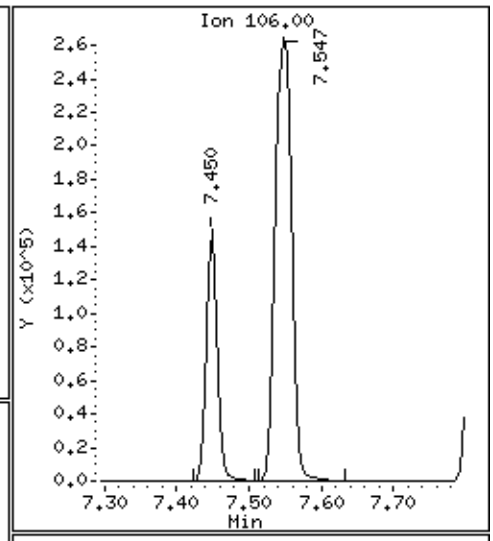
Column diameter: 0.18

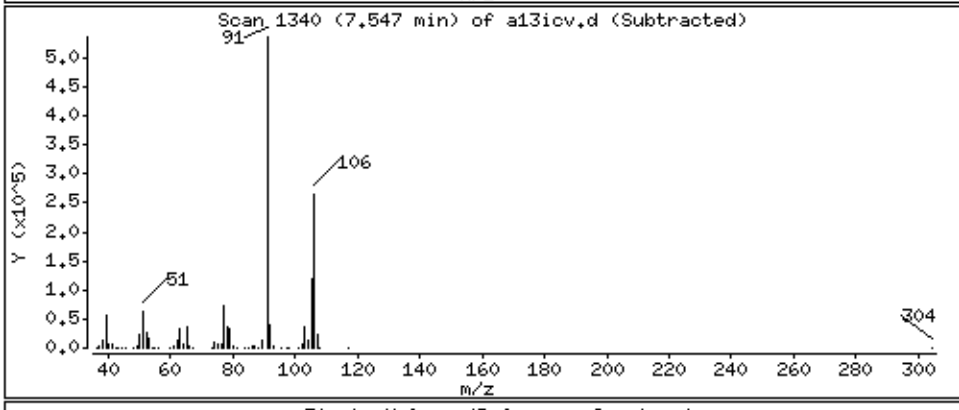
70 m&p-Xylene

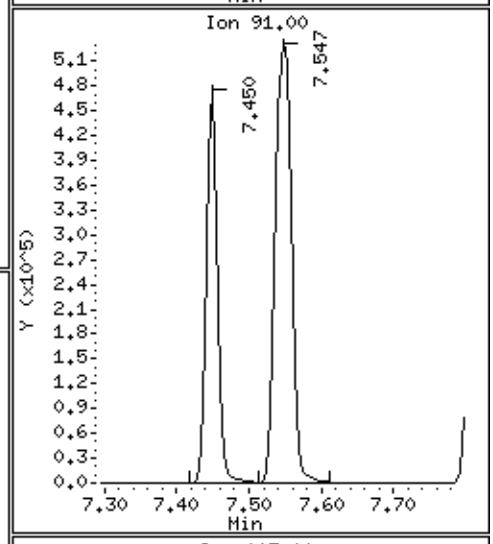
Concentration: 99.7 ppb

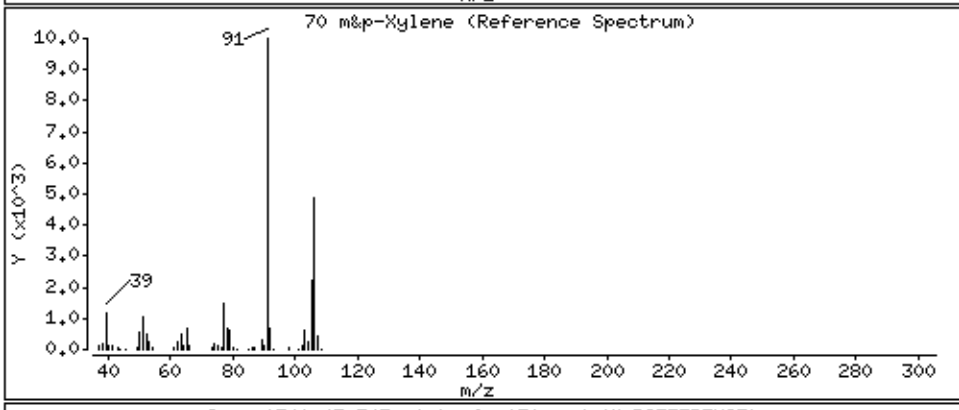
Review Code:

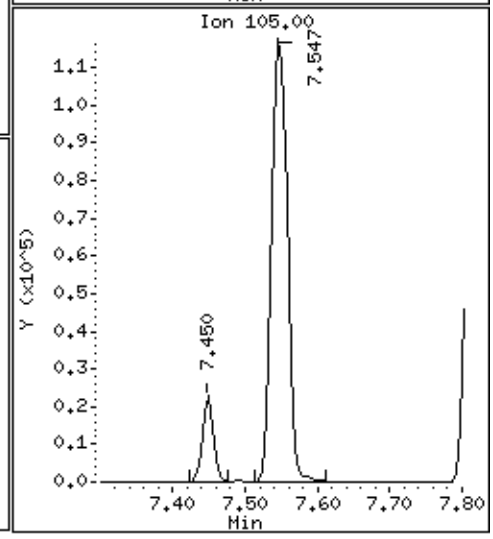


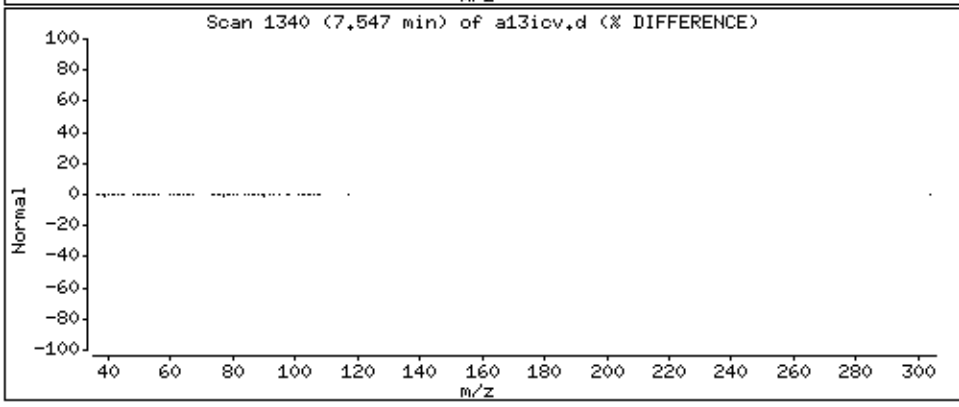












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

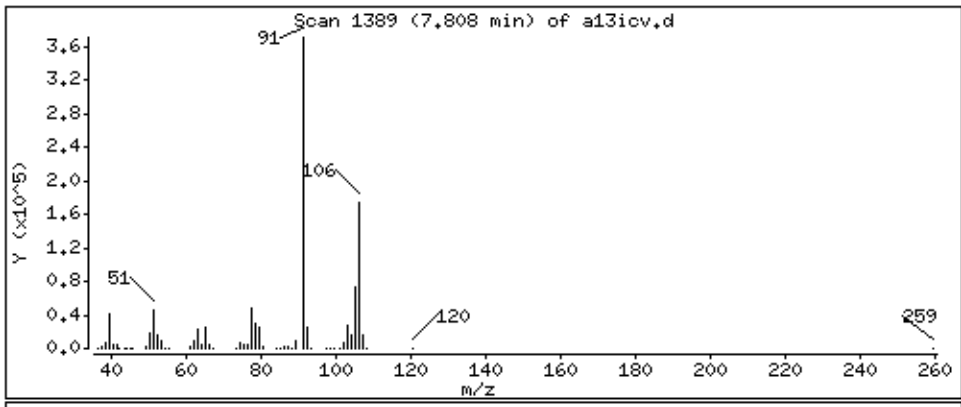
Column phase: DB-624

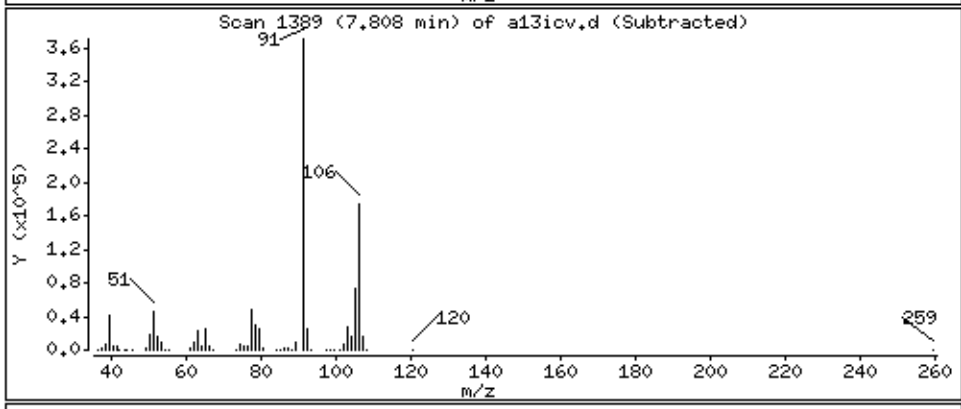
Column diameter: 0.18

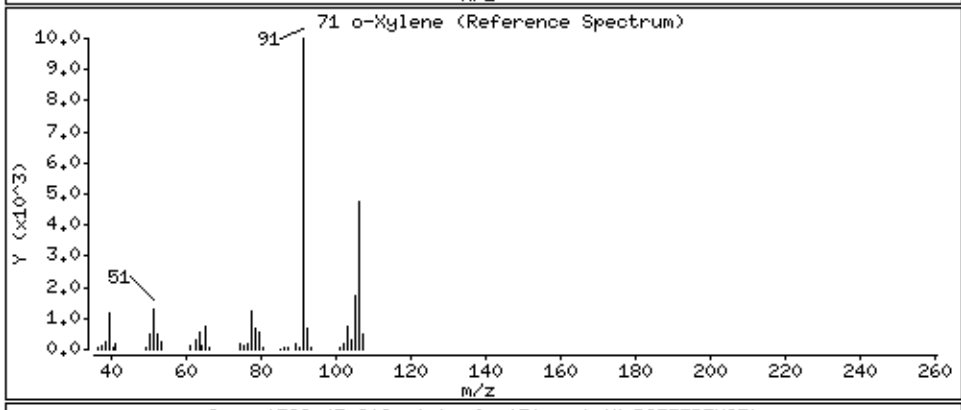
71 o-Xylene

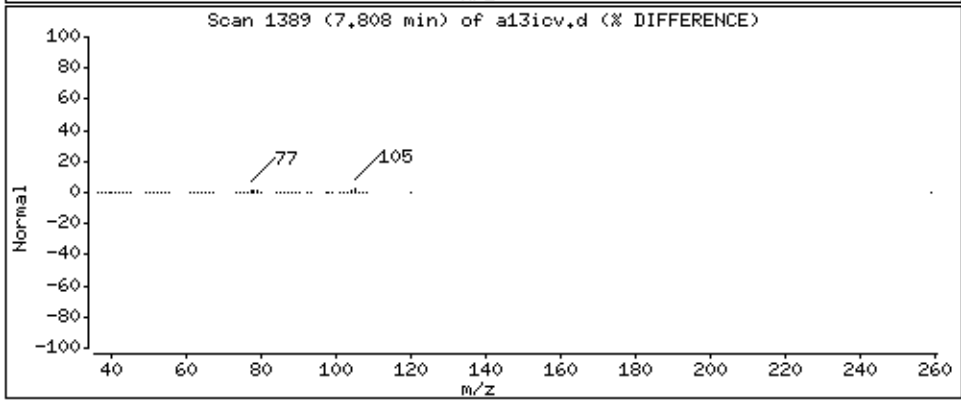
Concentration: 52.0 ppb

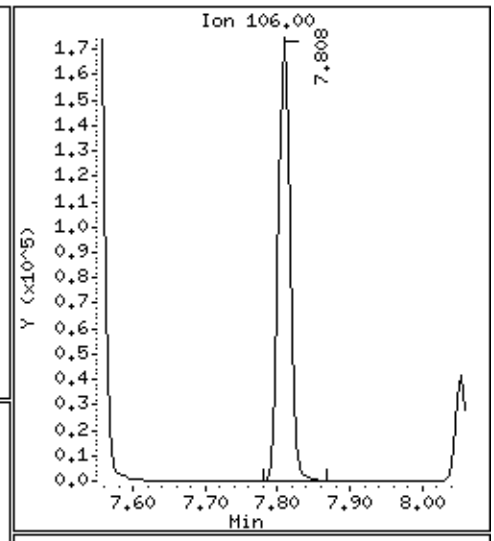
Review Code:

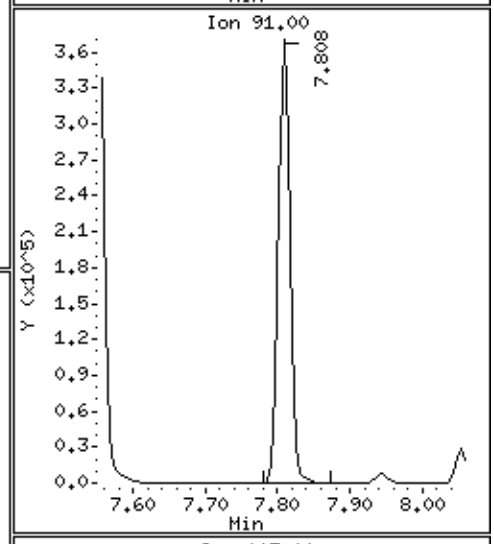


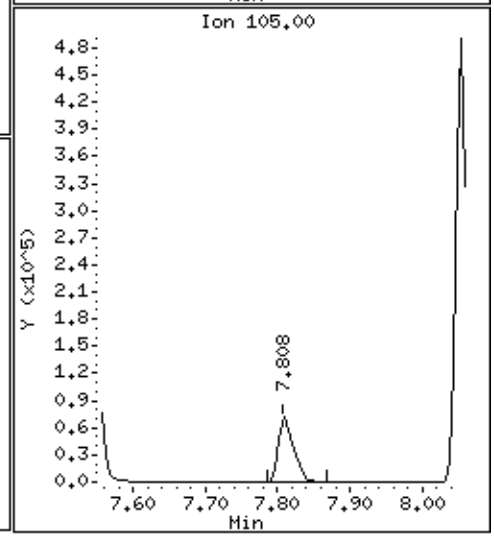












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

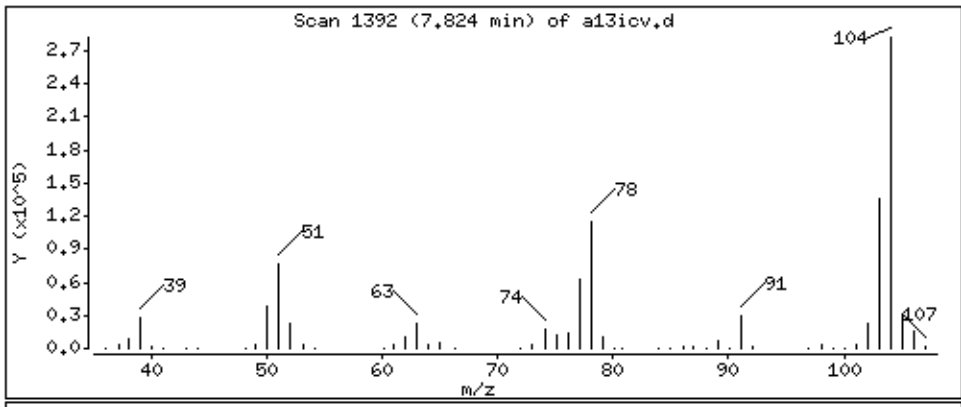
Column phase: DB-624

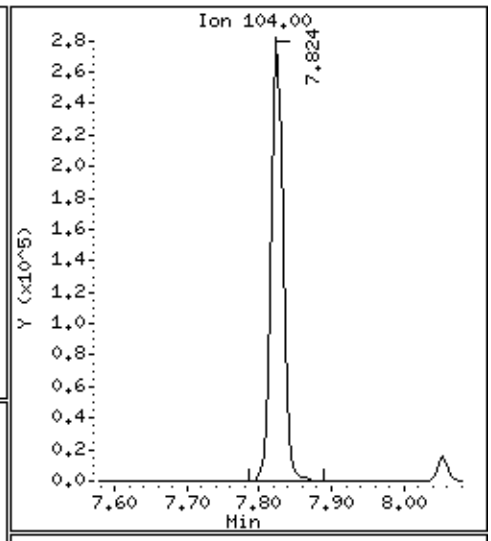
Column diameter: 0.18

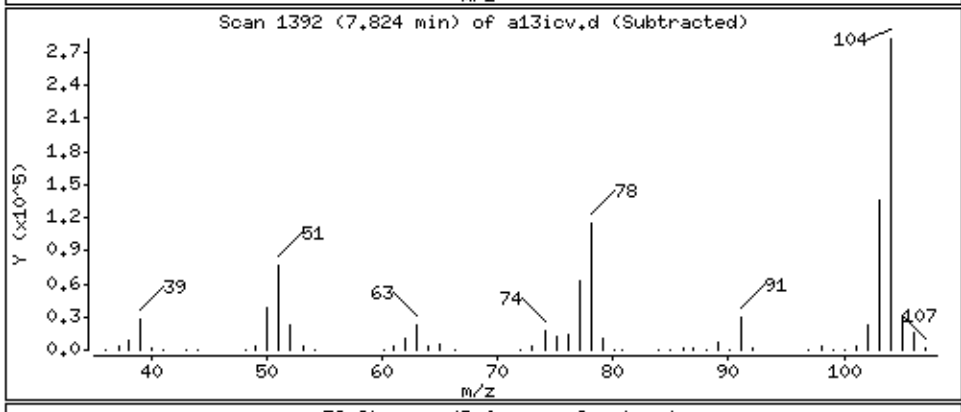
72 Styrene

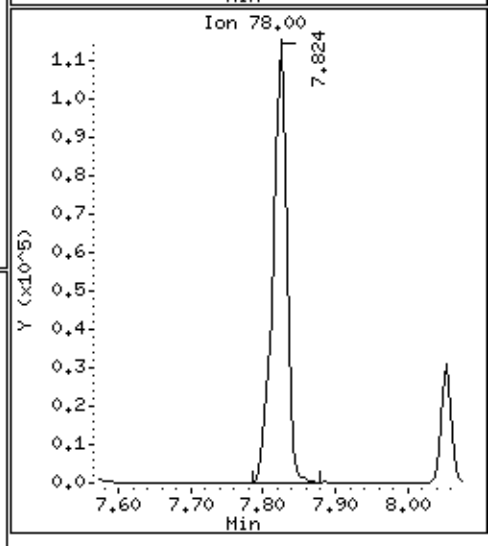
Concentration: 52.0 ppb

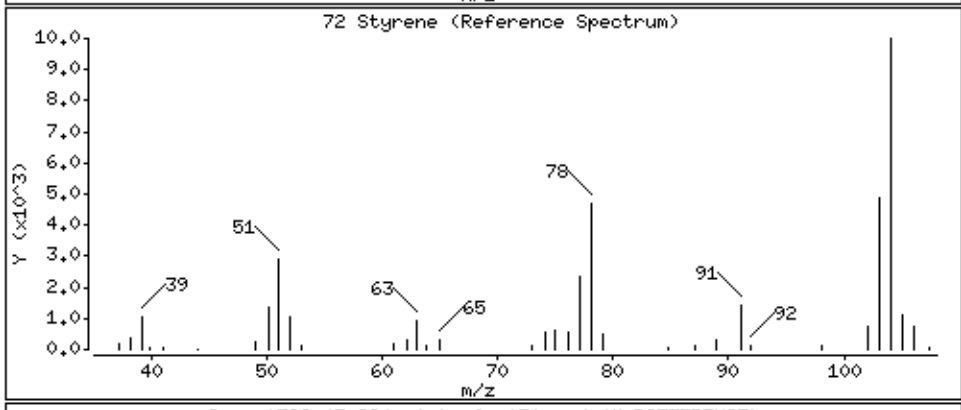
Review Code:

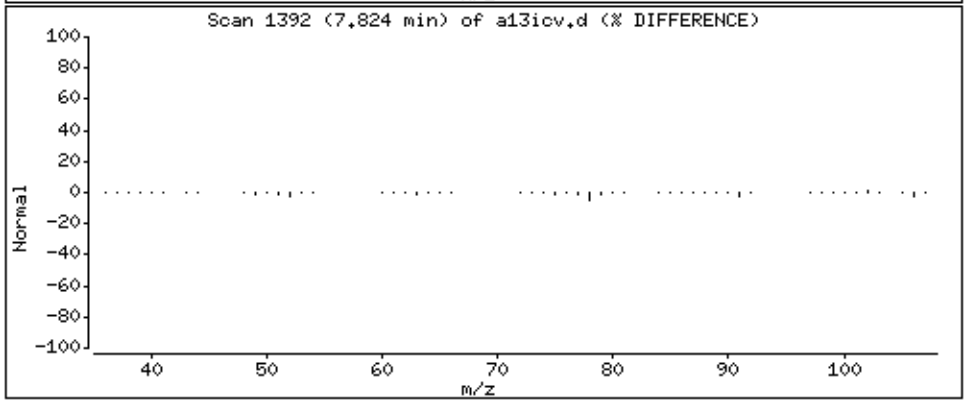












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

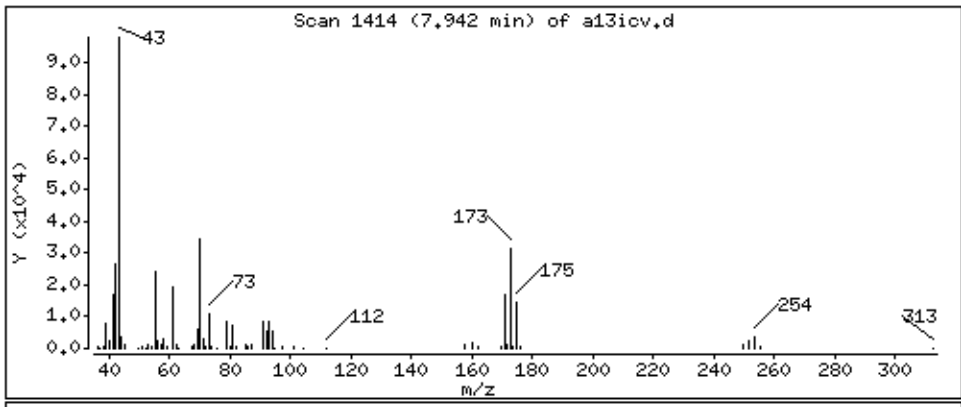
Column phase: DB-624

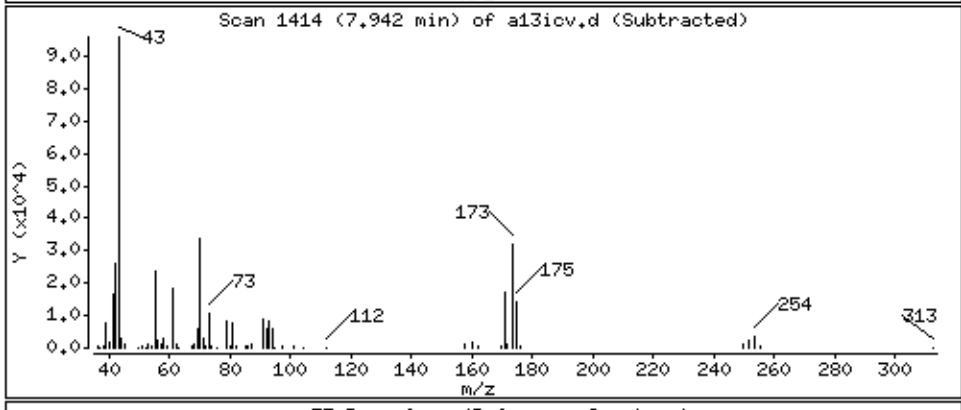
Column diameter: 0.18

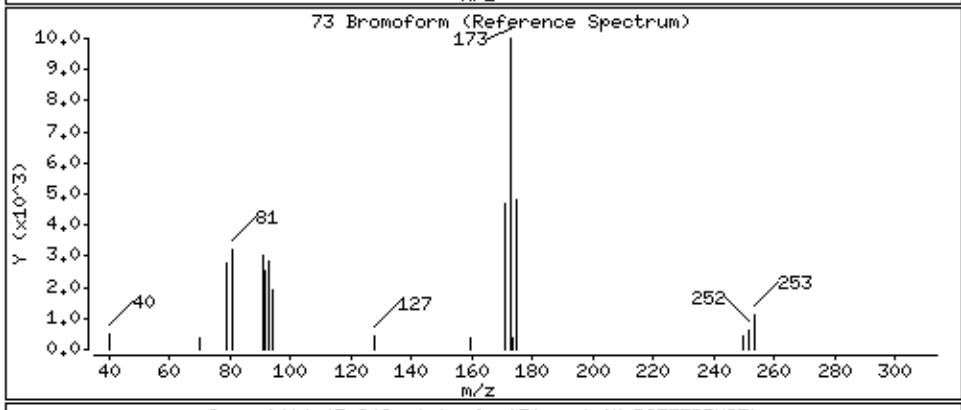
73 Bromoform

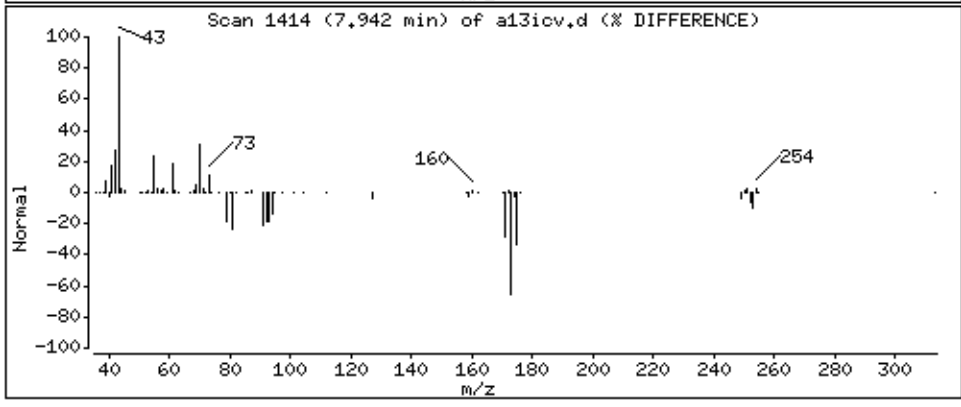
Concentration: 51.2 ppb

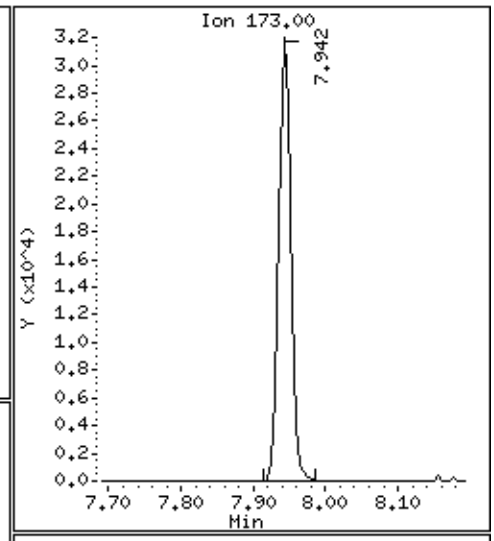
Review Code:

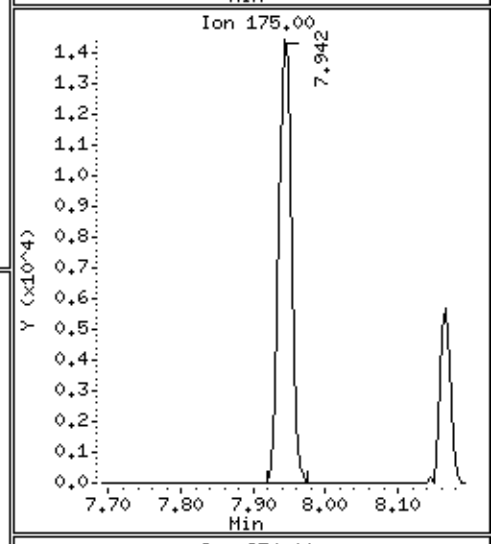


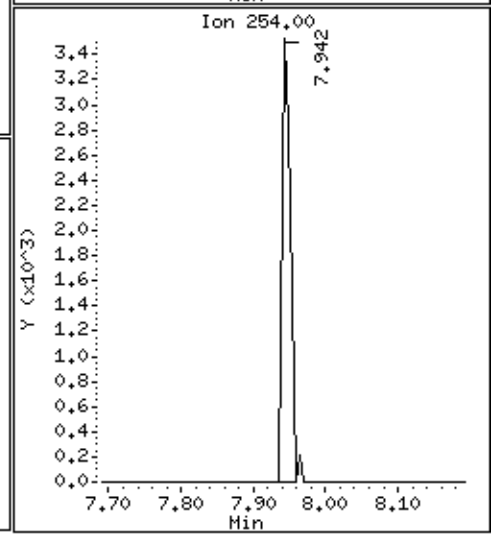












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

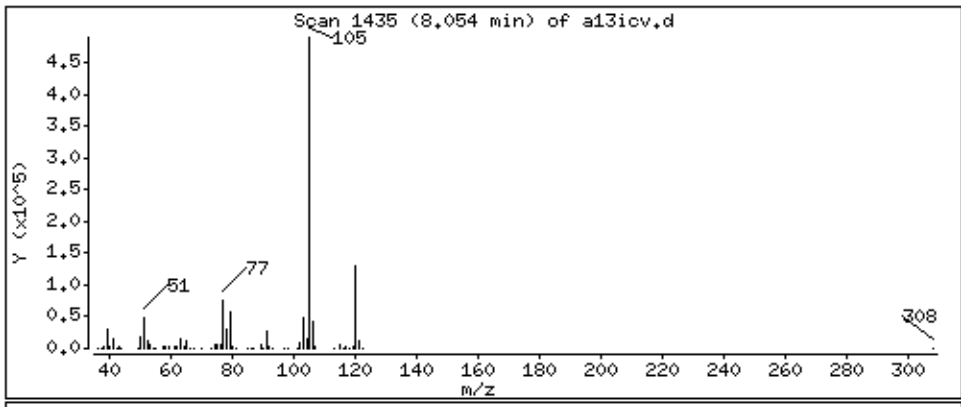
Column phase: DB-624

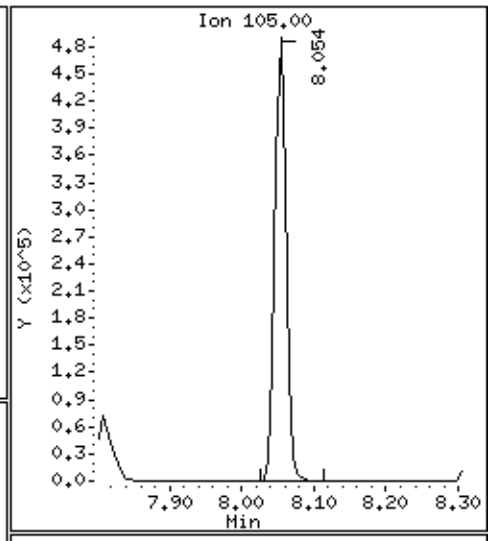
Column diameter: 0.18

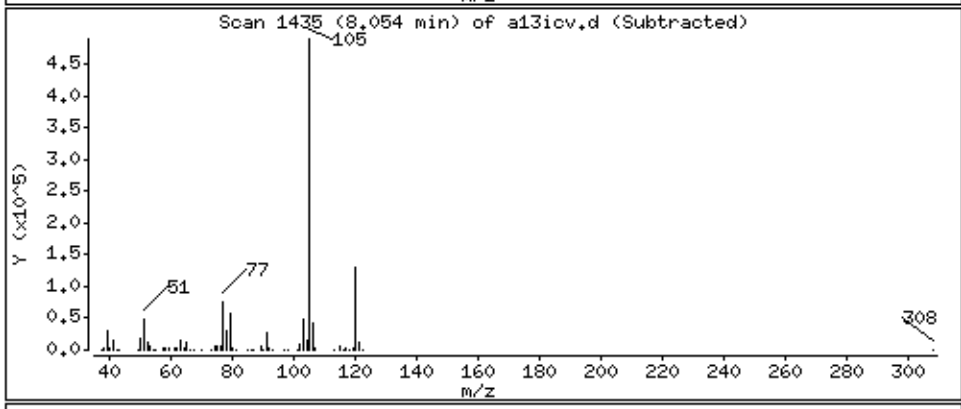
74 Isopropylbenzene

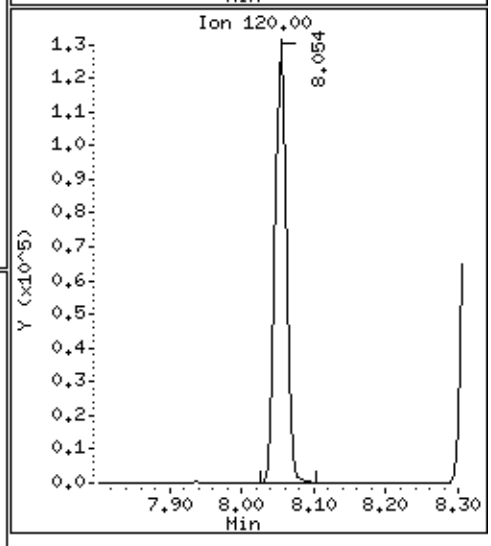
Concentration: 53.7 ppb

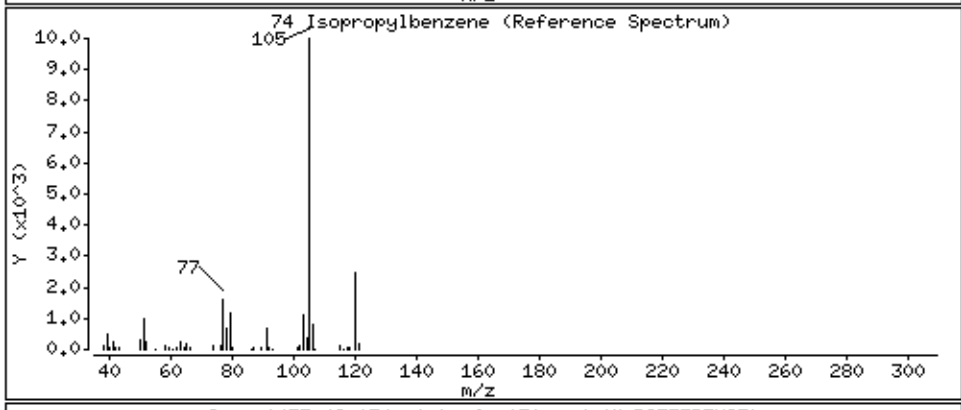
Review Code:

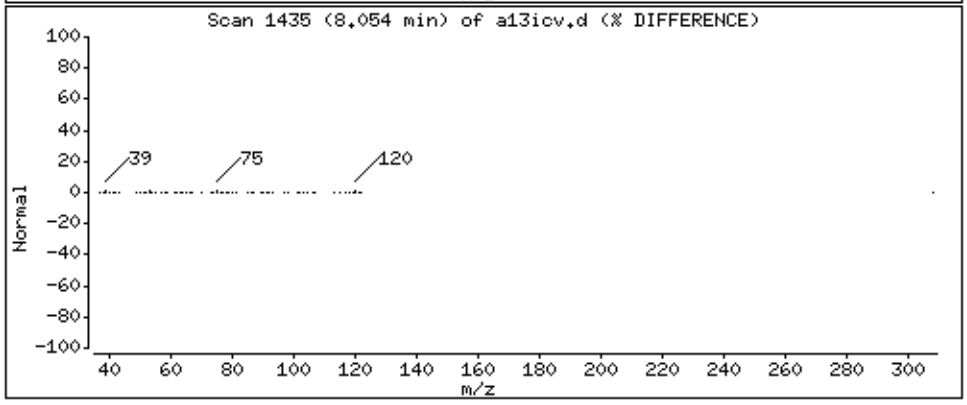












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

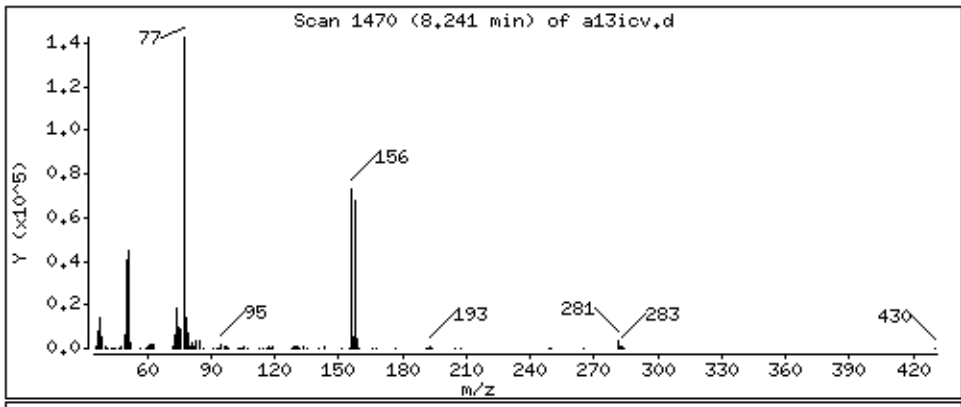
Column phase: DB-624

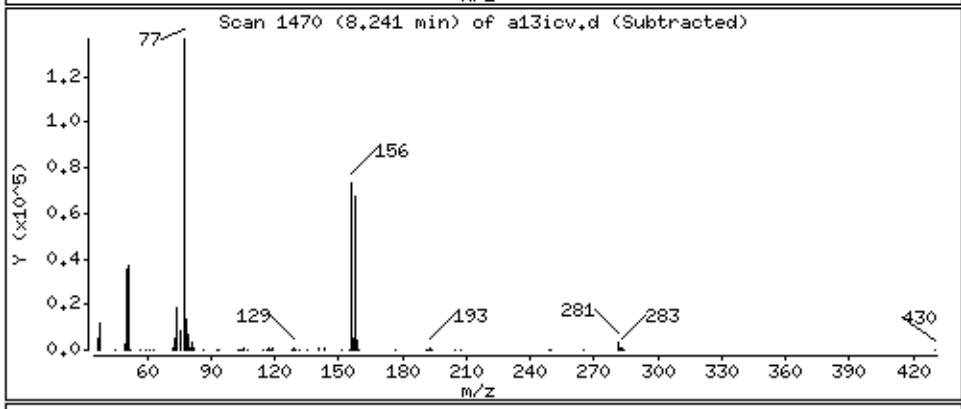
Column diameter: 0.18

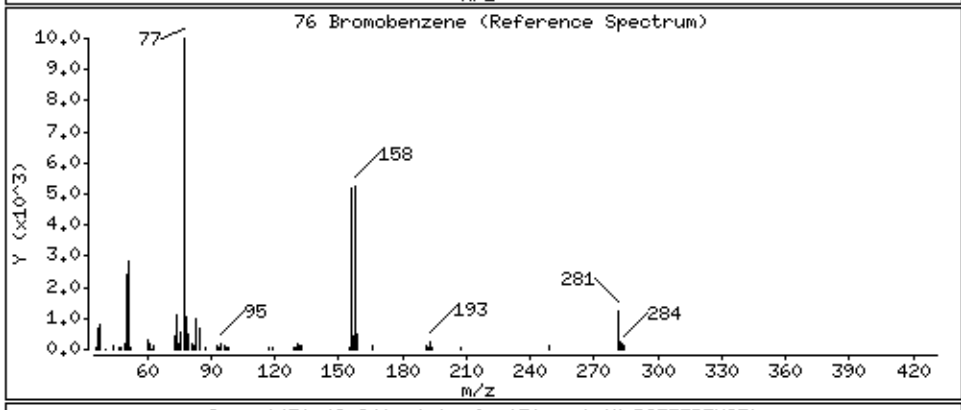
76 Bromobenzene

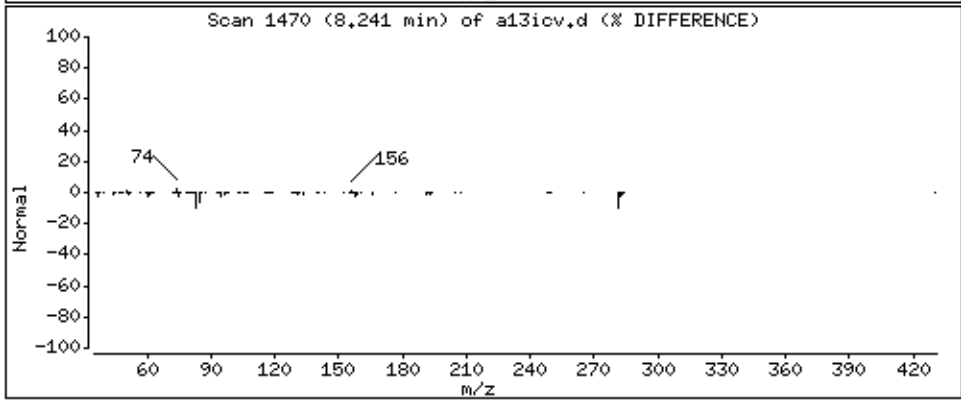
Concentration: 47.1 ppb

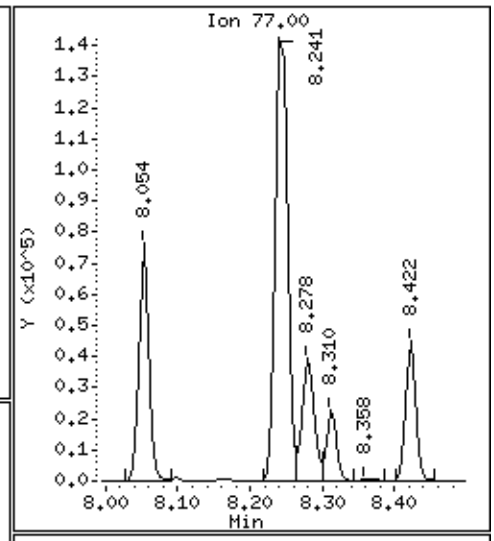
Review Code:

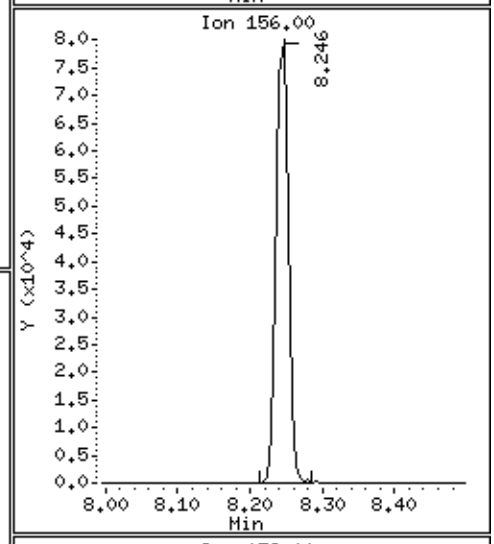


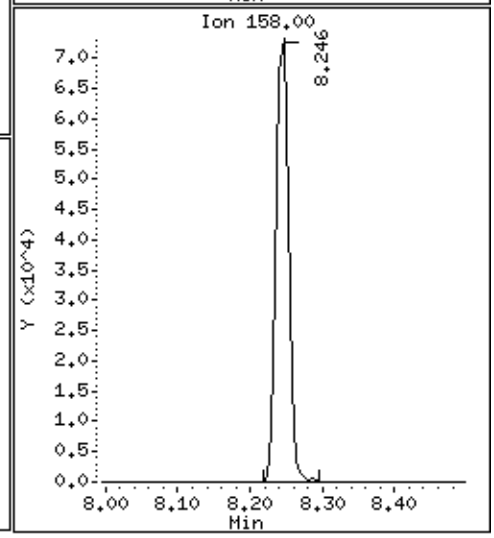












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

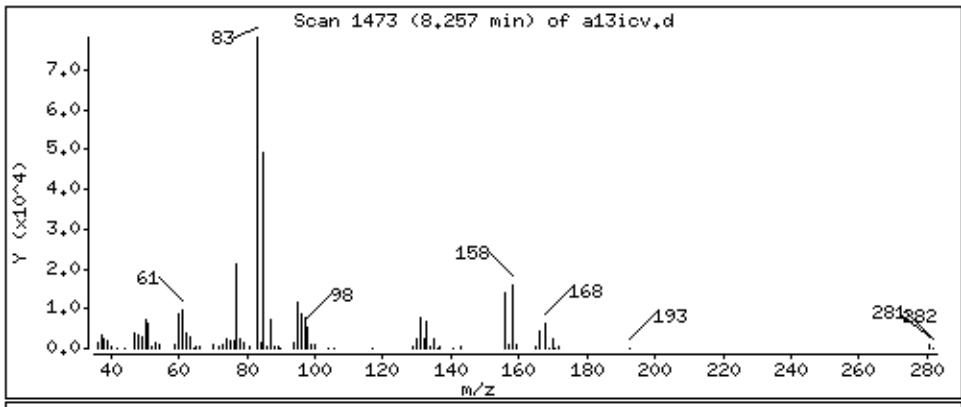
Column phase: DB-624

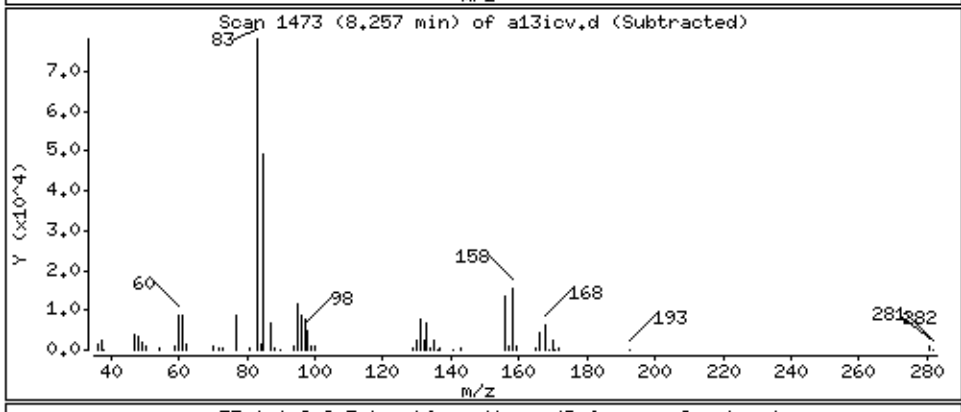
Column diameter: 0.18

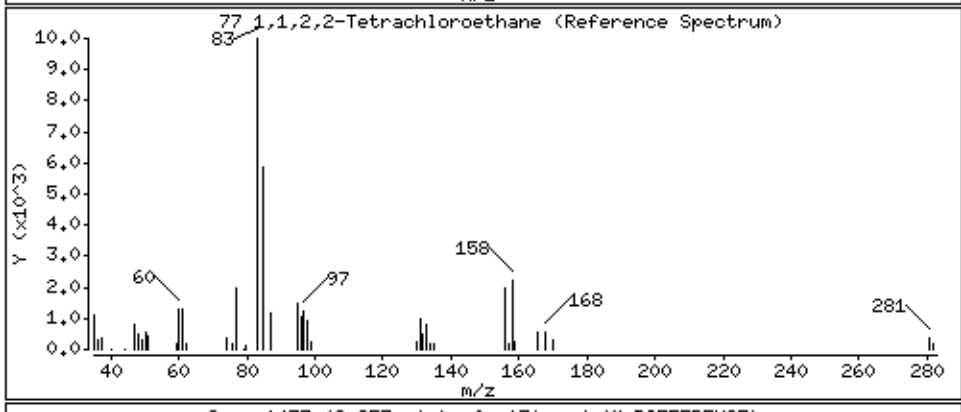
77 1,1,2,2-Tetrachloroethane

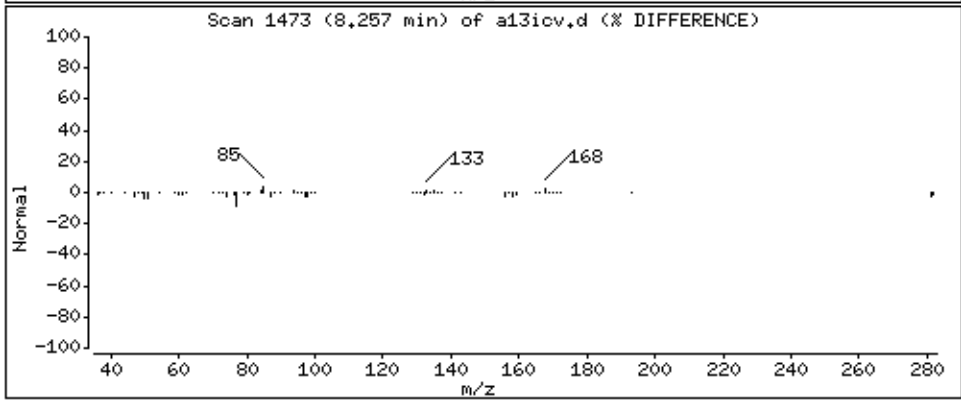
Concentration: 51.6 ppb

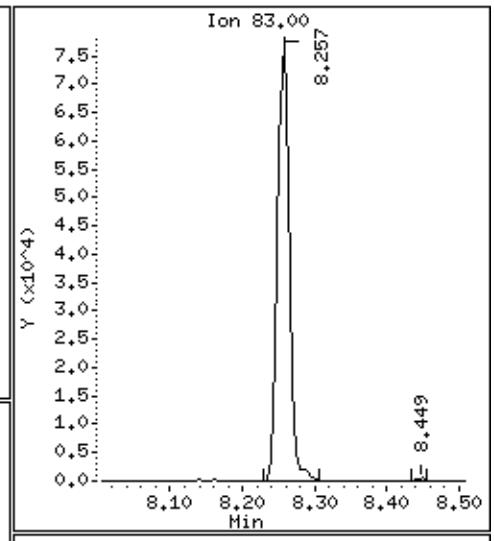
Review Code:

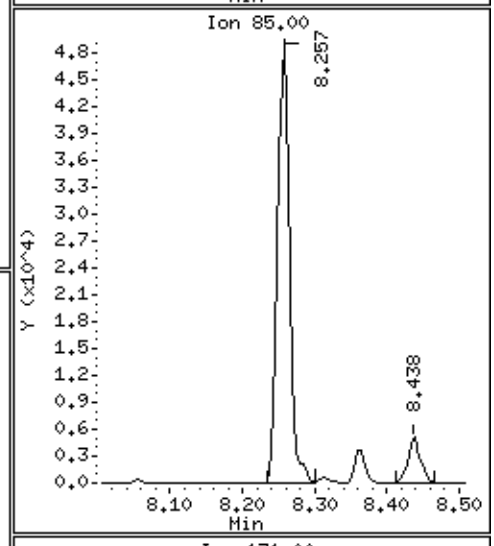


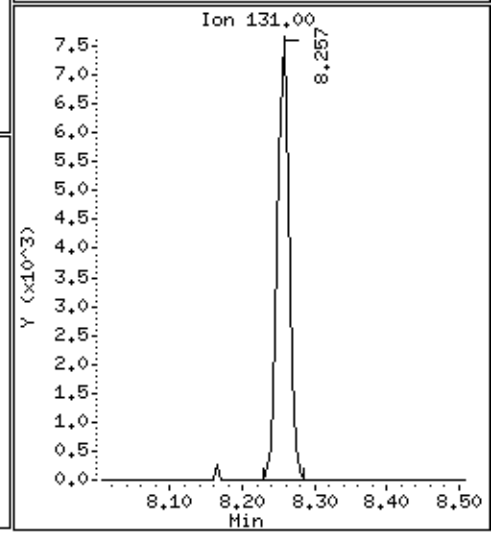












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

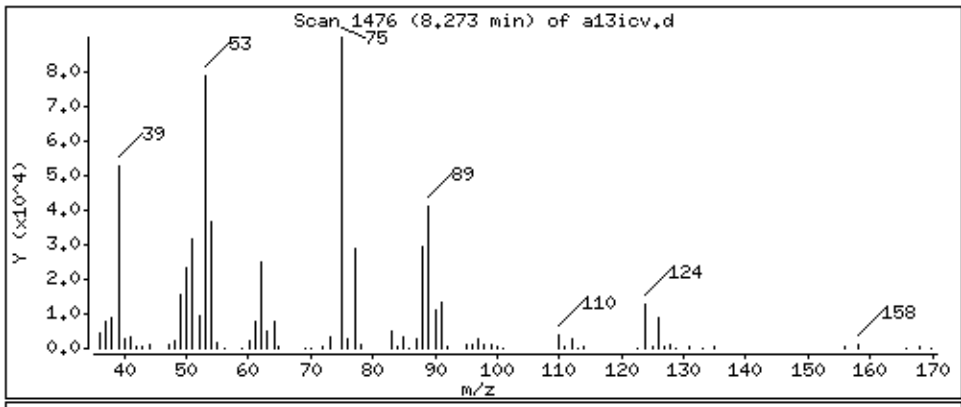
Column phase: DB-624

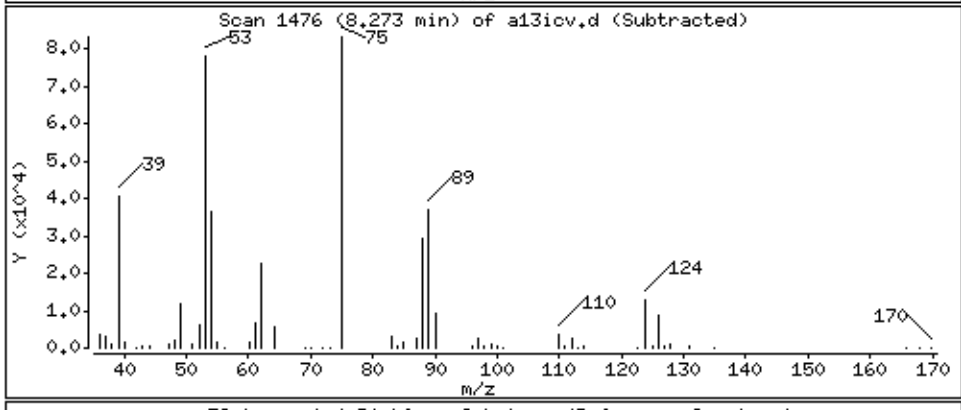
Column diameter: 0.18

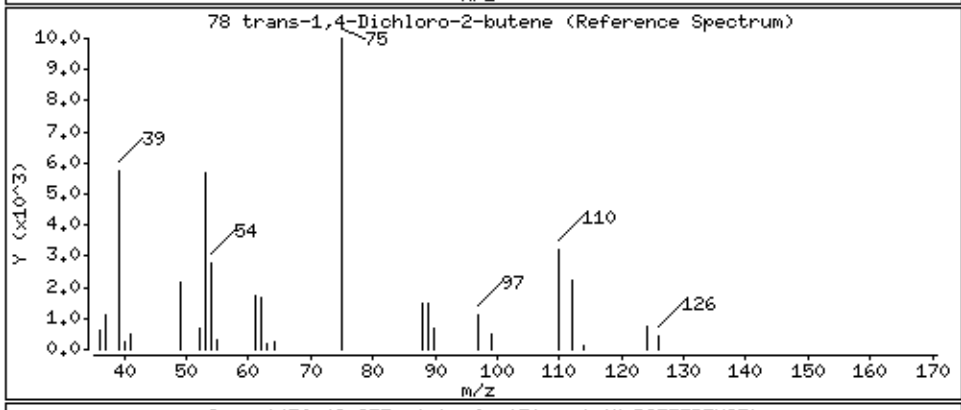
78 trans-1,4-Dichloro-2-butene

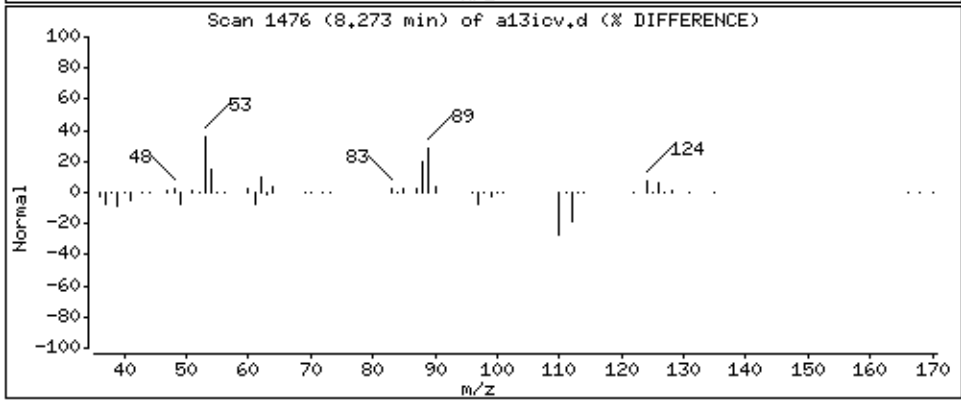
Concentration: 199 ppb

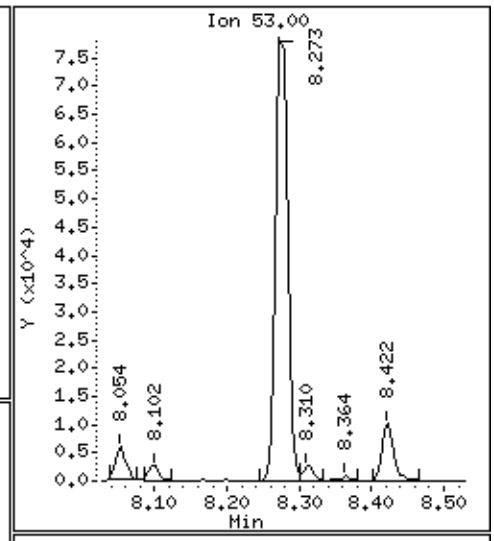
Review Code:

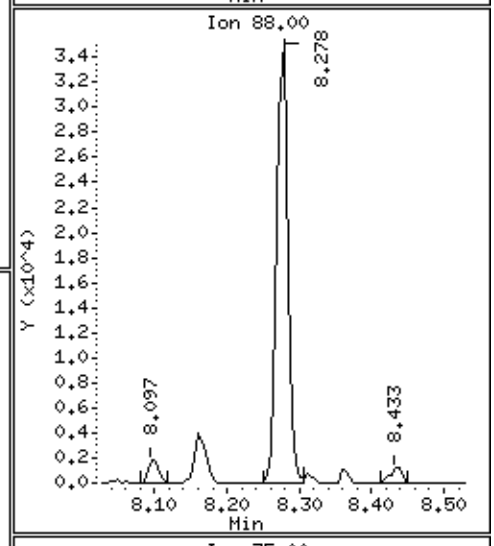


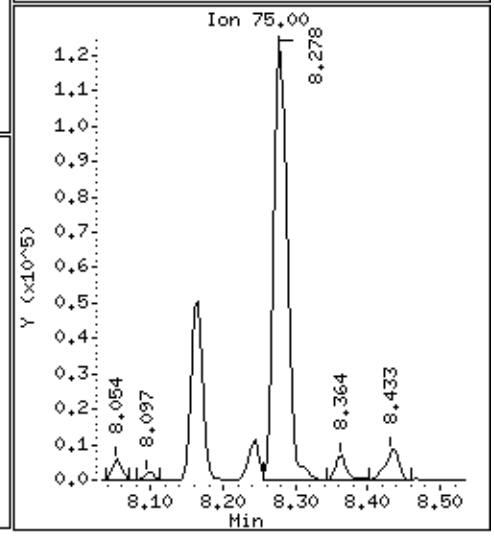












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

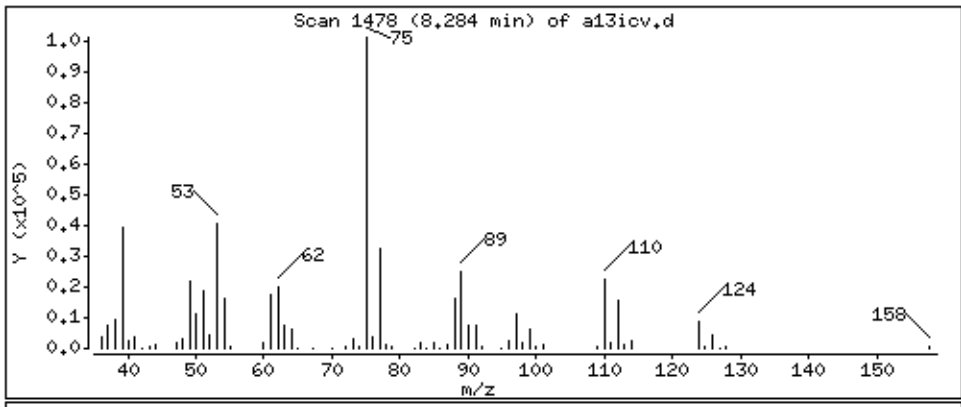
Column phase: DB-624

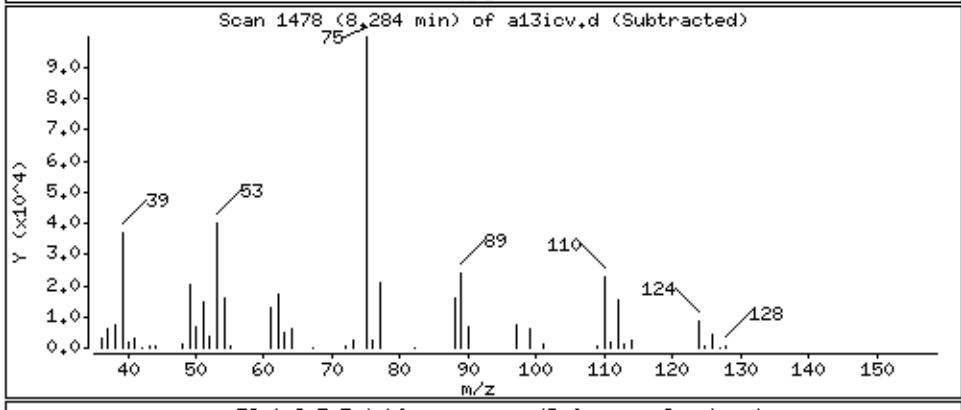
Column diameter: 0.18

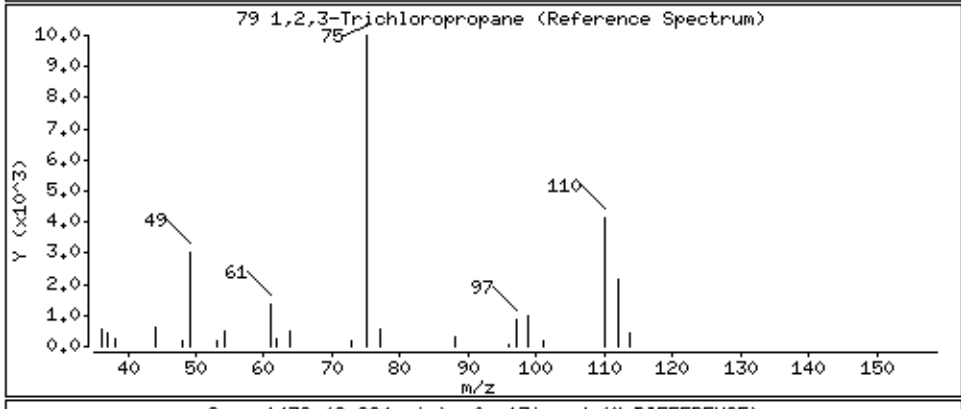
79 1,2,3-Trichloropropane

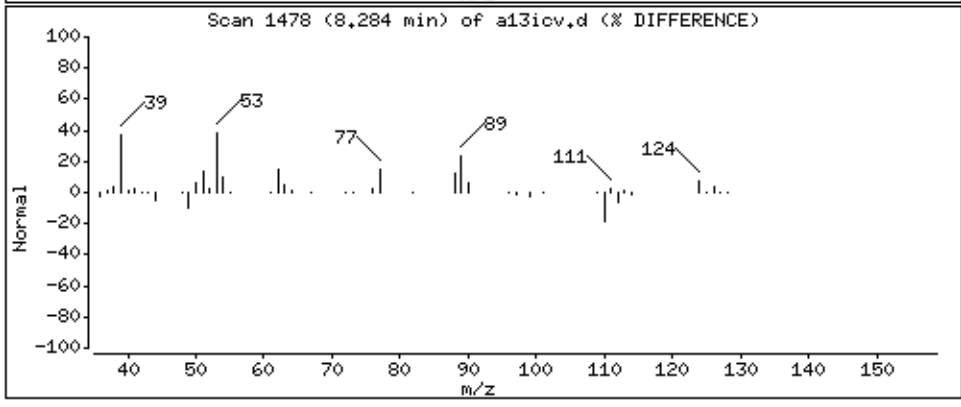
Concentration: 54.0 ppb

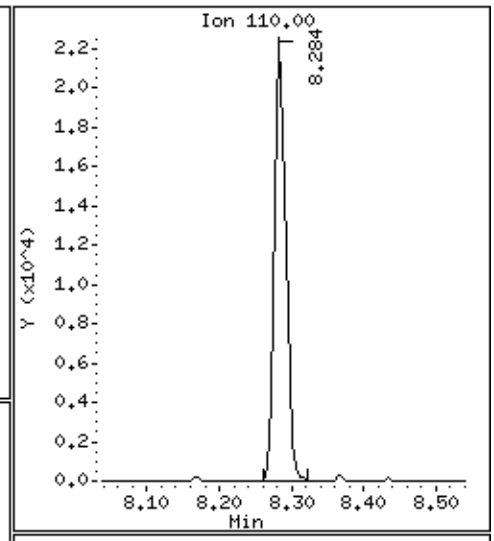
Review Code:

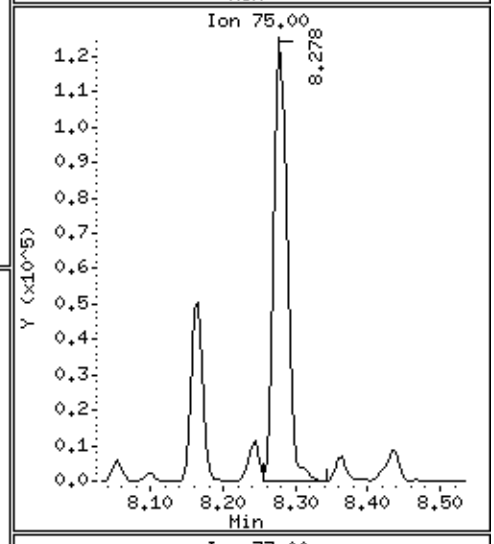


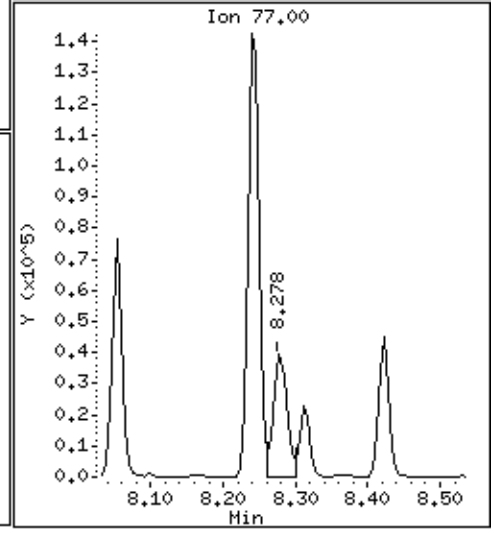












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

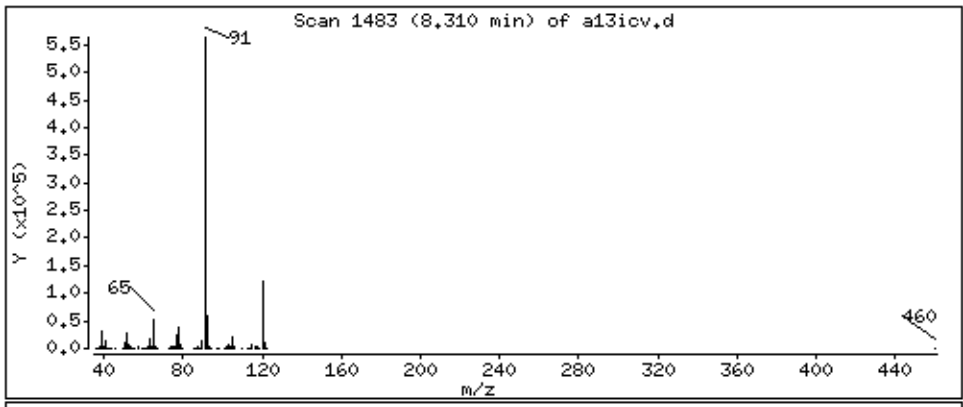
Column phase: DB-624

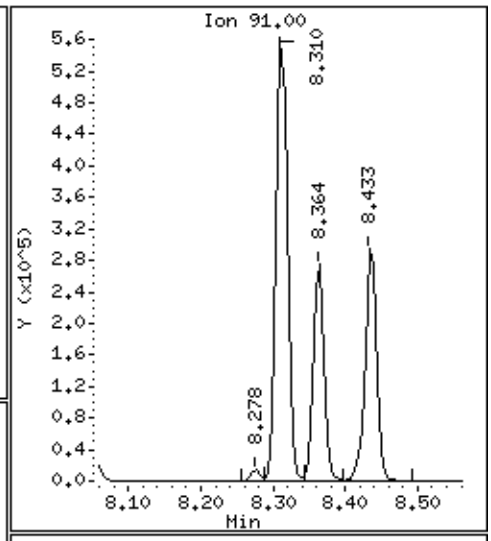
Column diameter: 0.18

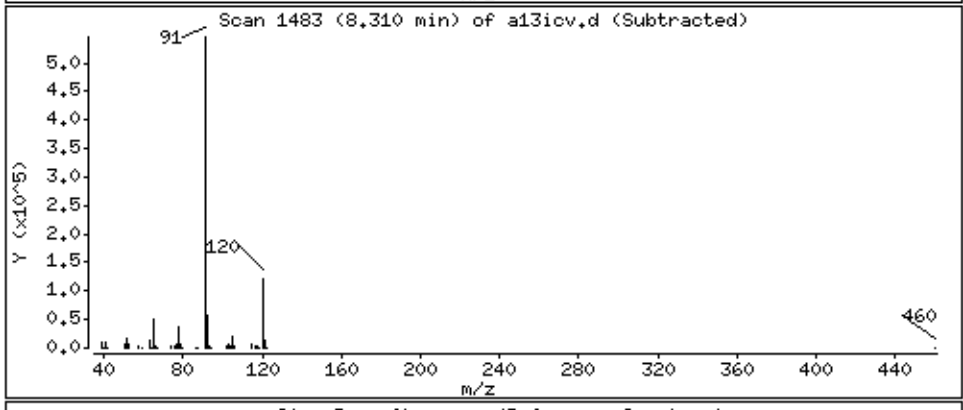
80 n-Propylbenzene

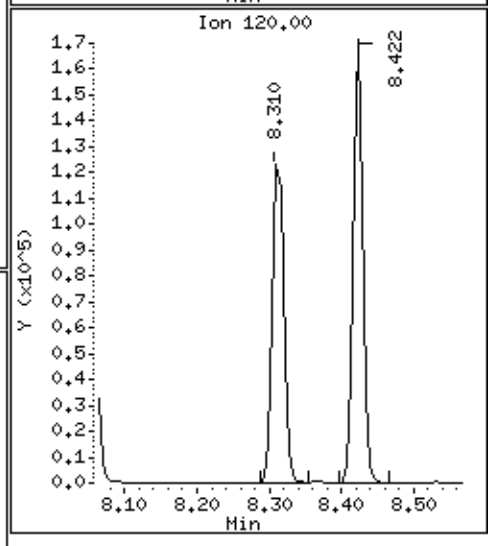
Concentration: 54.0 ppb

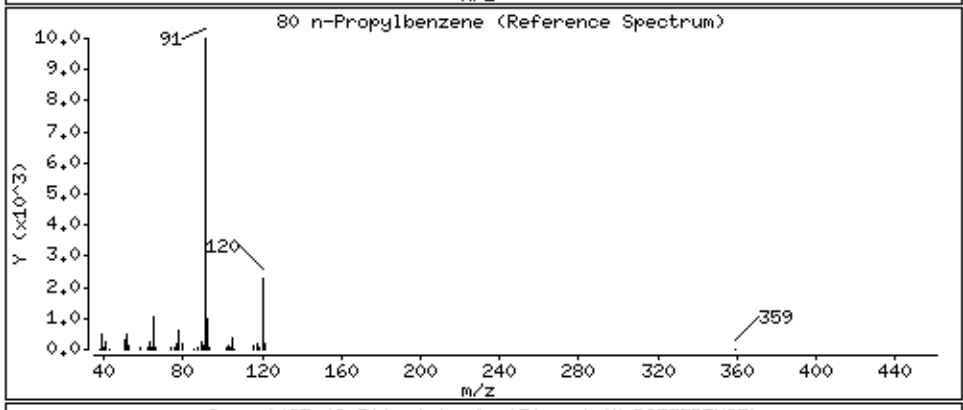
Review Code:

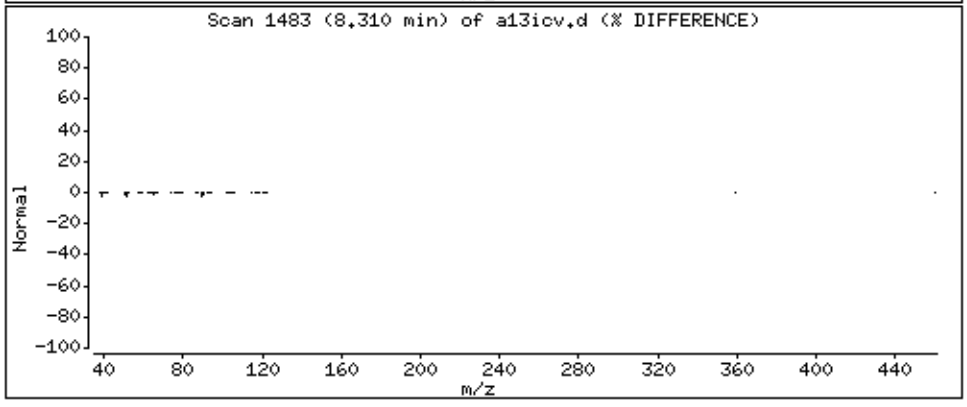












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 80

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

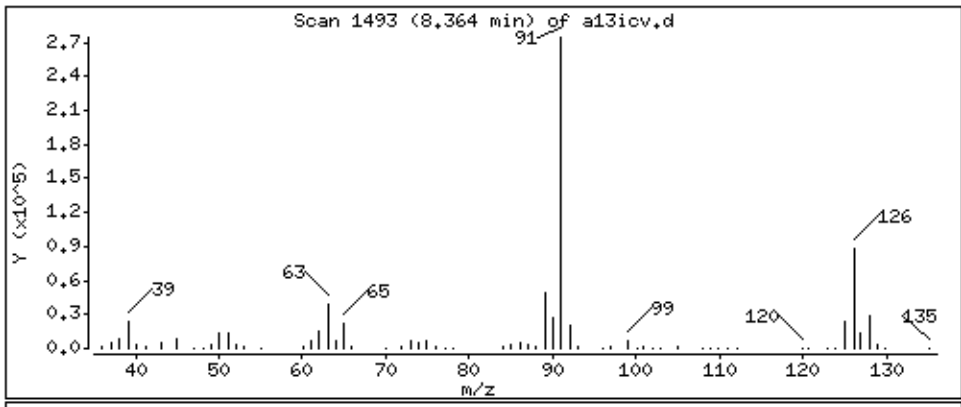
Column phase: DB-624

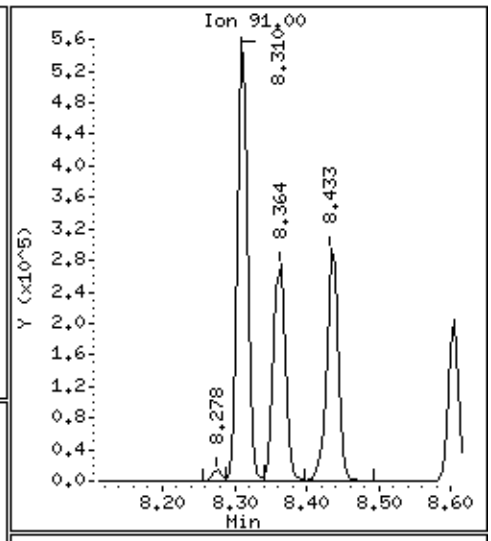
Column diameter: 0.18

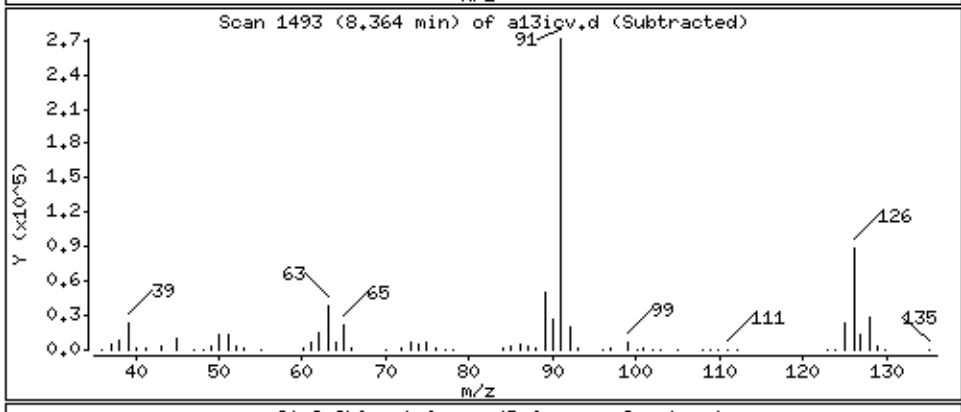
81 2-Chlorotoluene

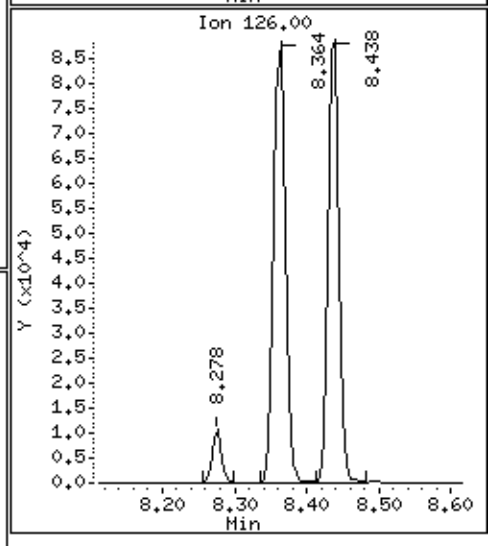
Concentration: 51.1 ppb

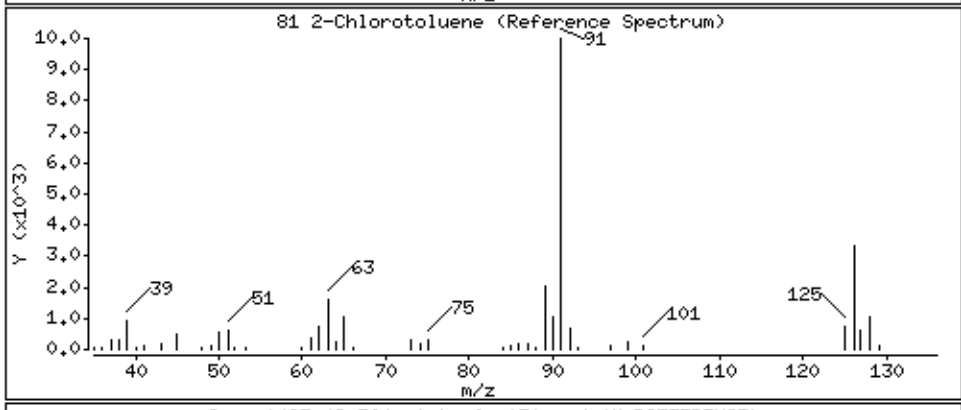
Review Code:

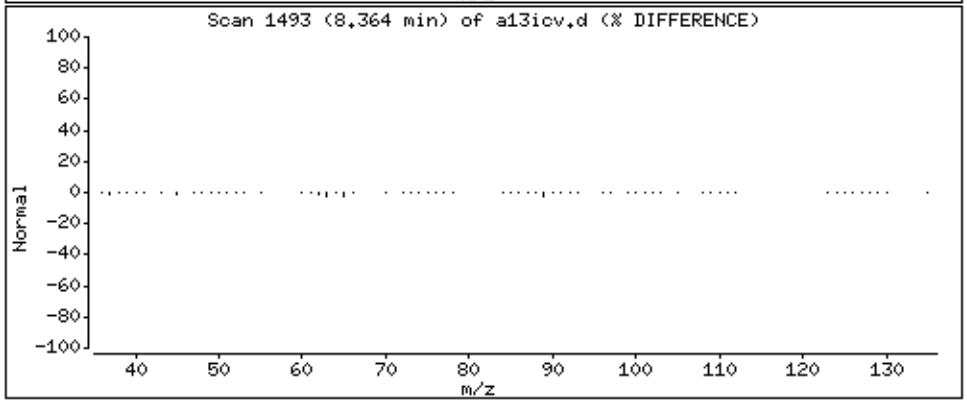












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 81

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

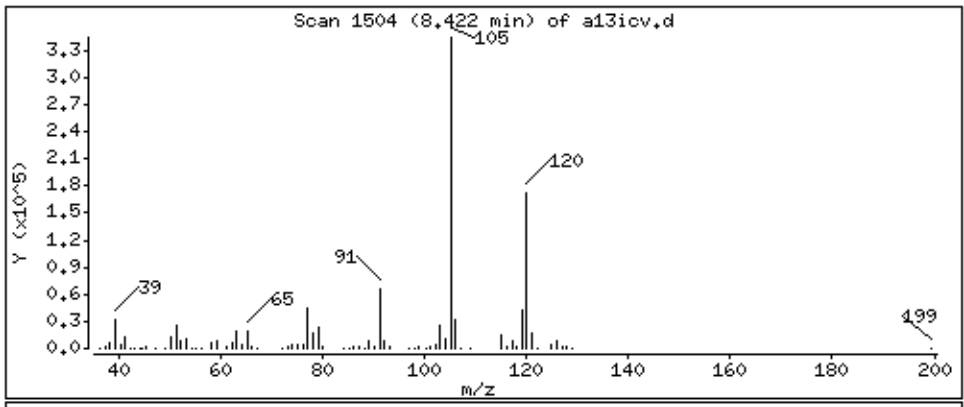
Column phase: DB-624

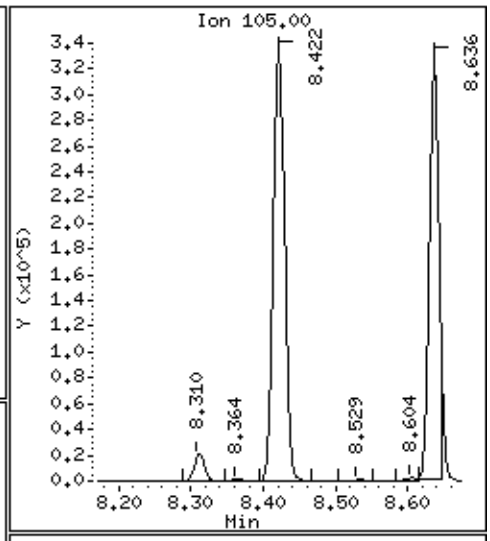
Column diameter: 0.18

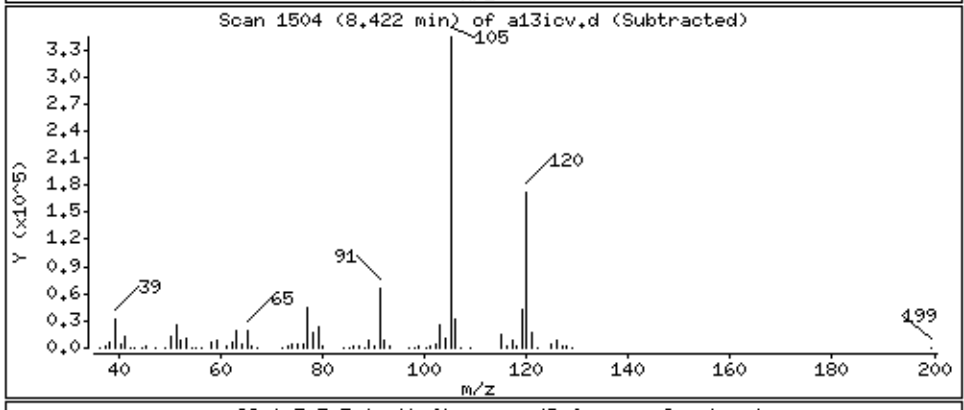
82 1,3,5-Trimethylbenzene

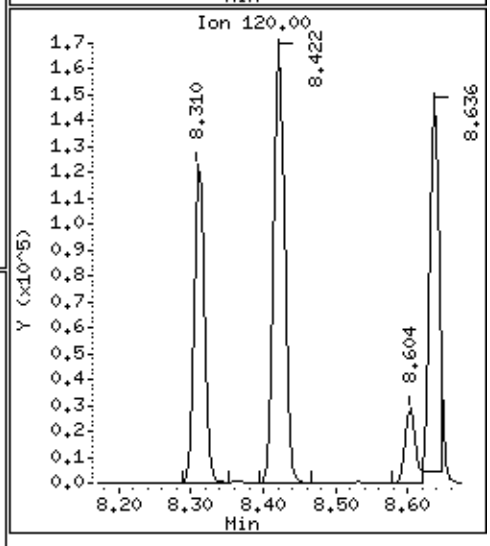
Concentration: 51.6 ppb

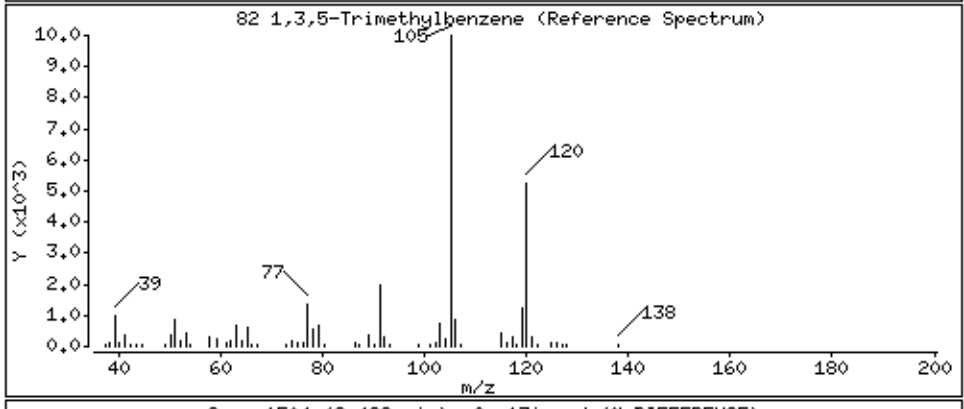
Review Code:

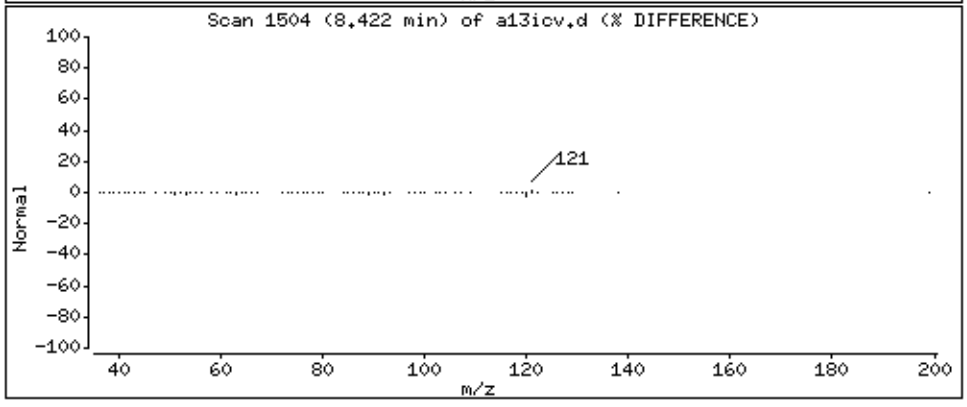












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

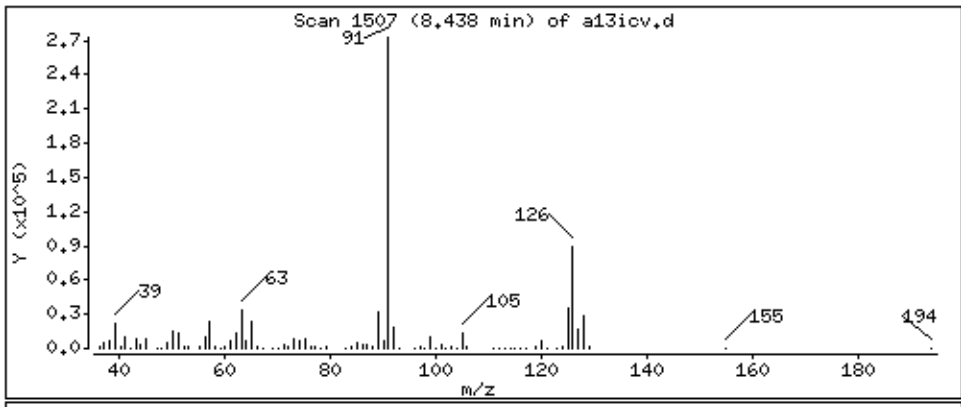
Column phase: DB-624

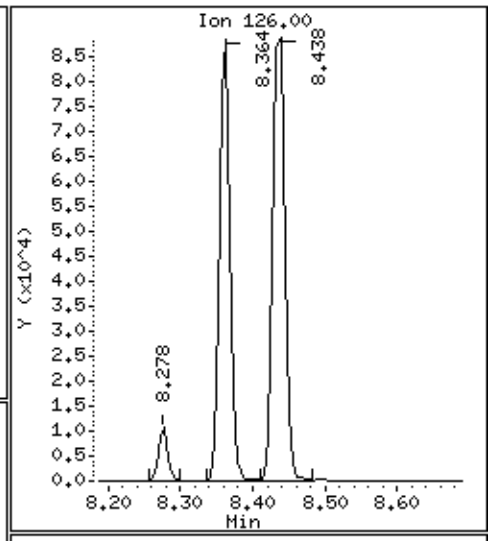
Column diameter: 0.18

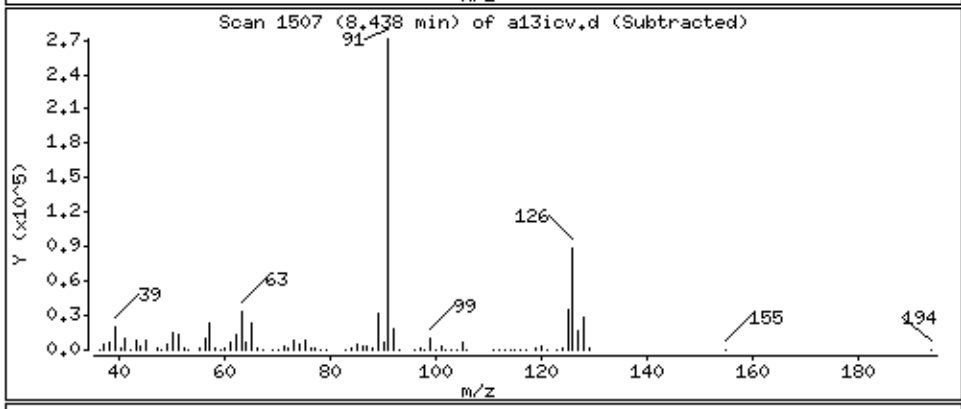
83 4-Chlorotoluene

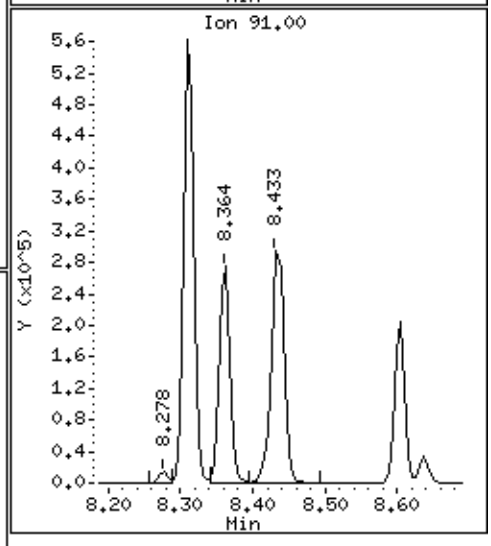
Concentration: 51.0 ppb

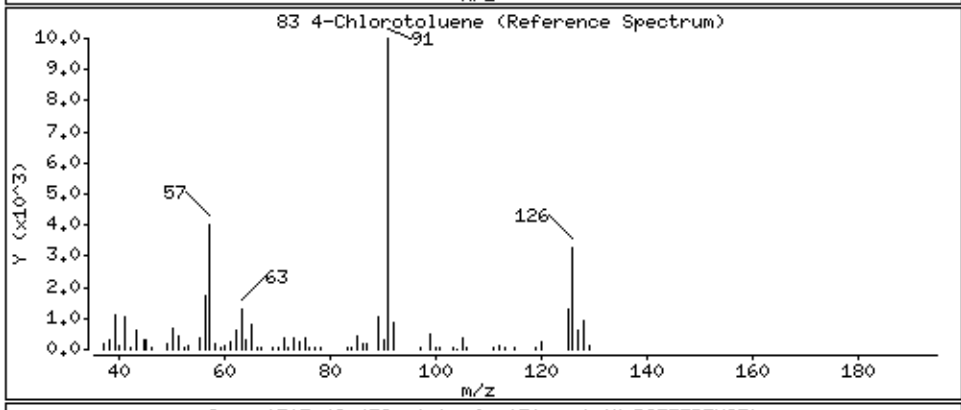
Review Code:

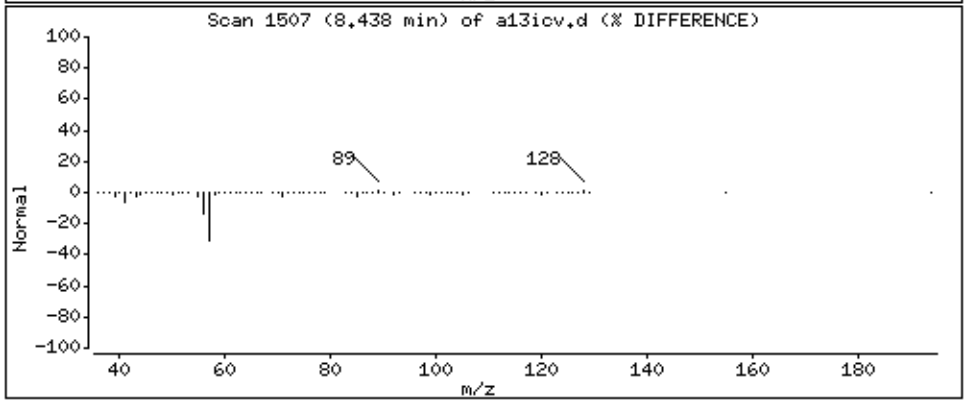












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 83

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

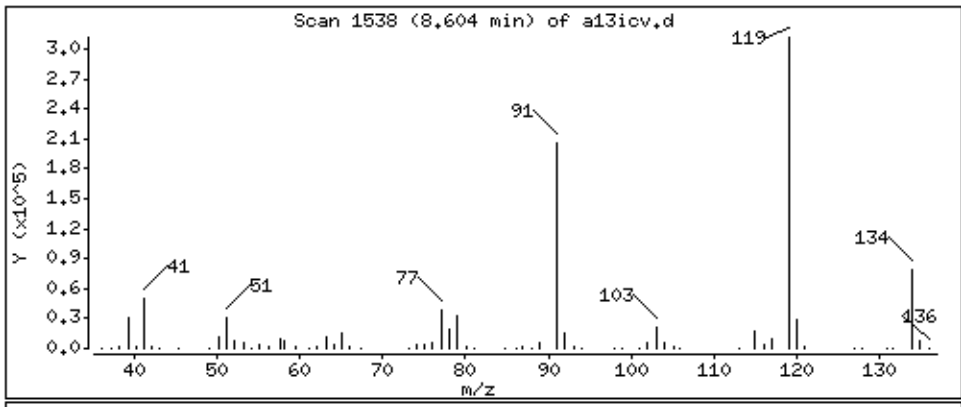
Column phase: DB-624

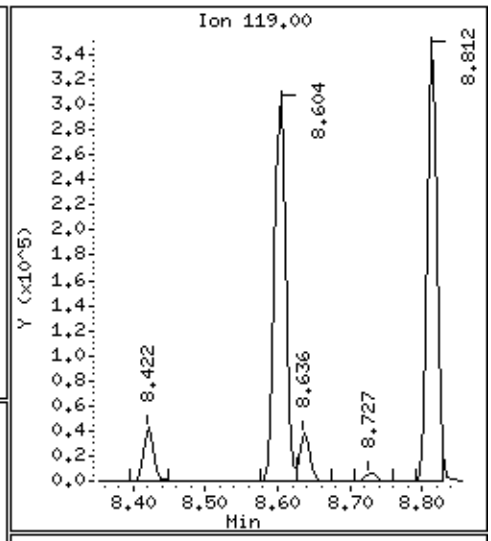
Column diameter: 0.18

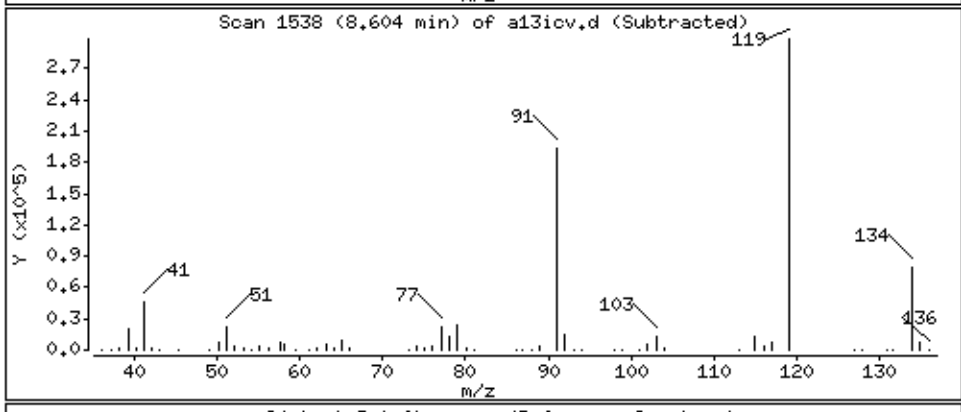
84 tert-Butylbenzene

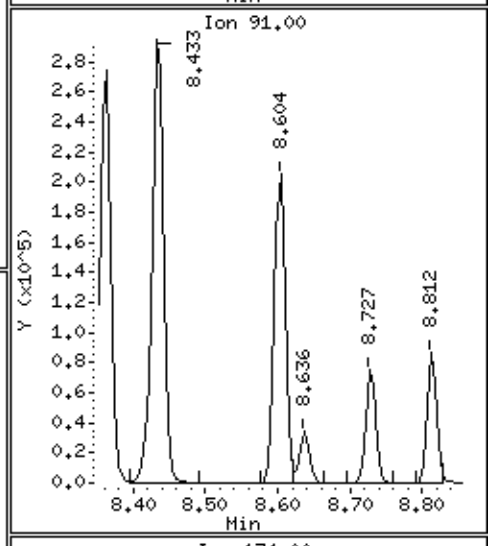
Concentration: 43.0 ppb

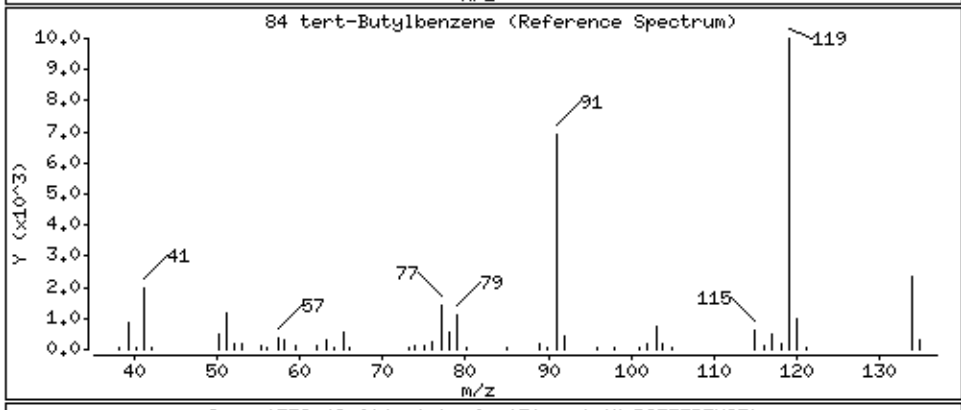
Review Code:

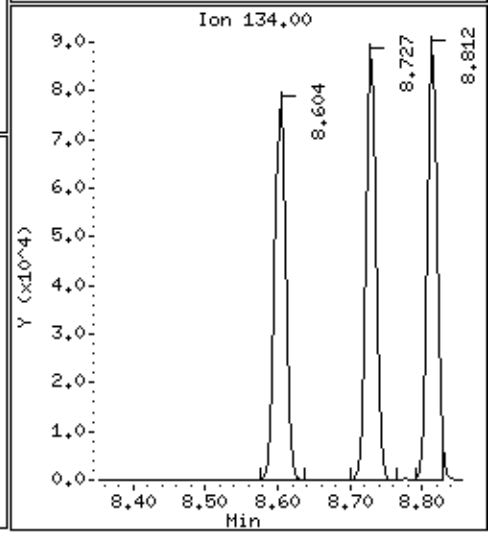


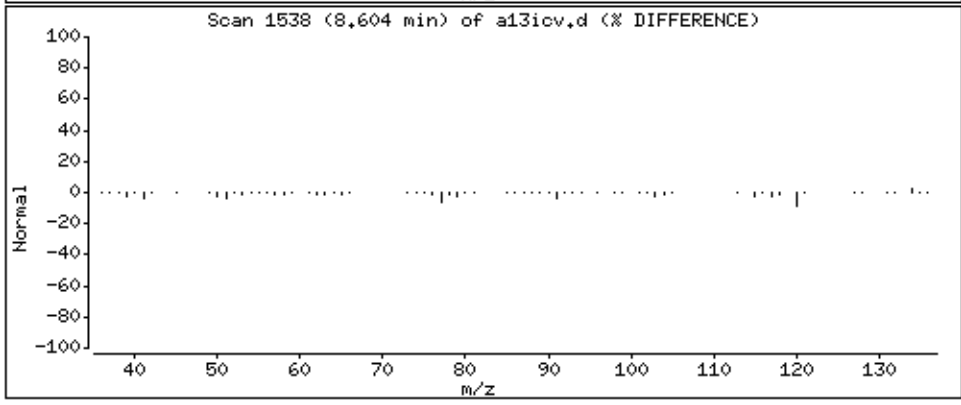












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

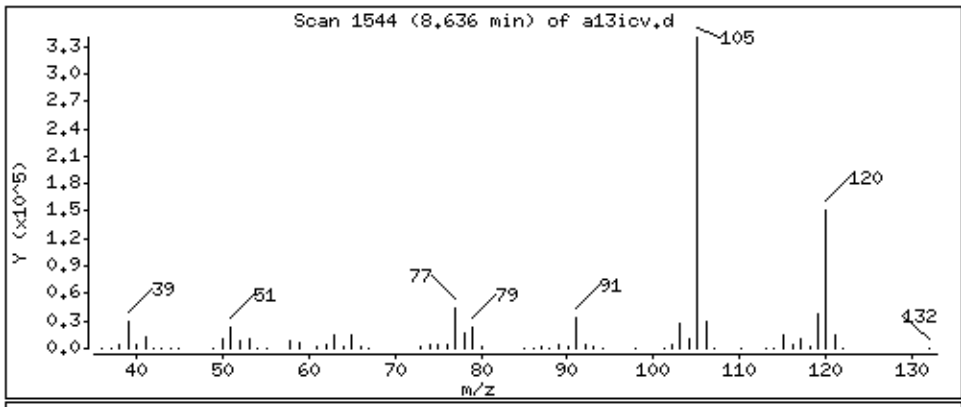
Column phase: DB-624

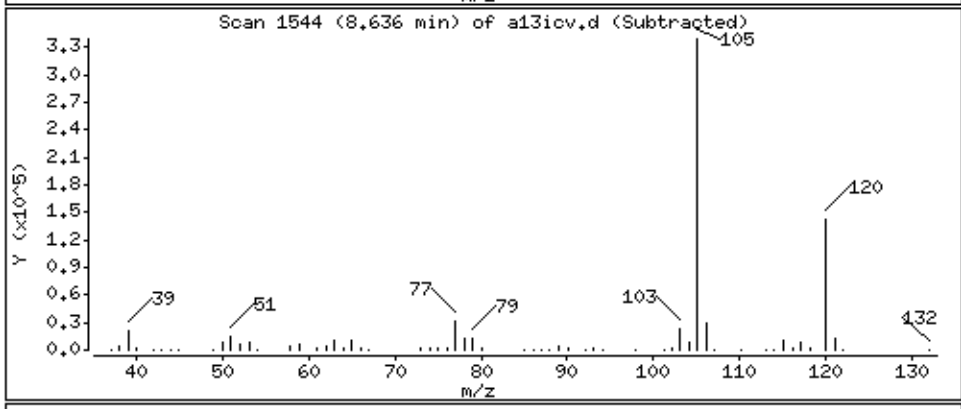
Column diameter: 0.18

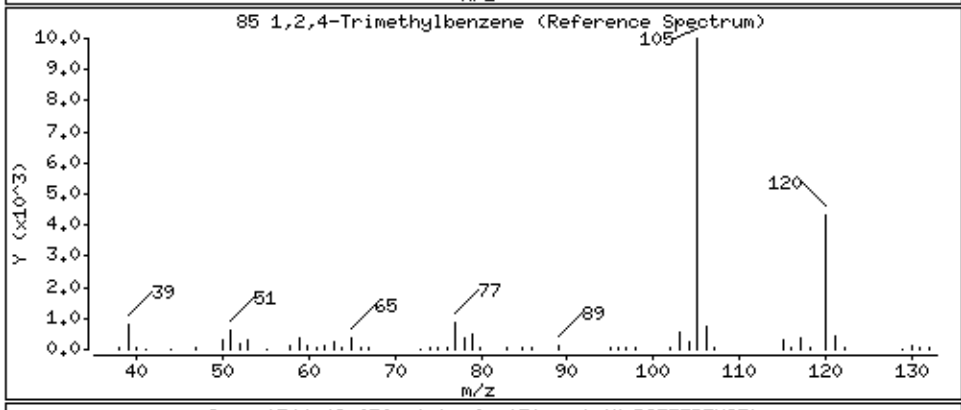
85 1,2,4-Trimethylbenzene

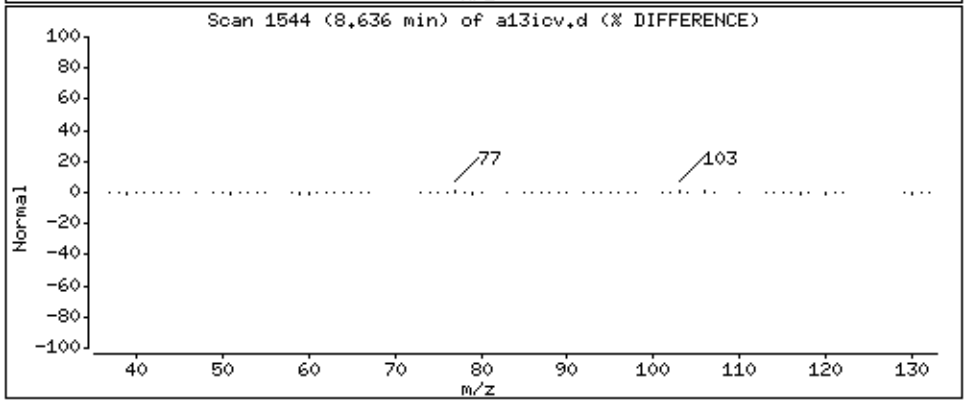
Concentration: 50.8 ppb

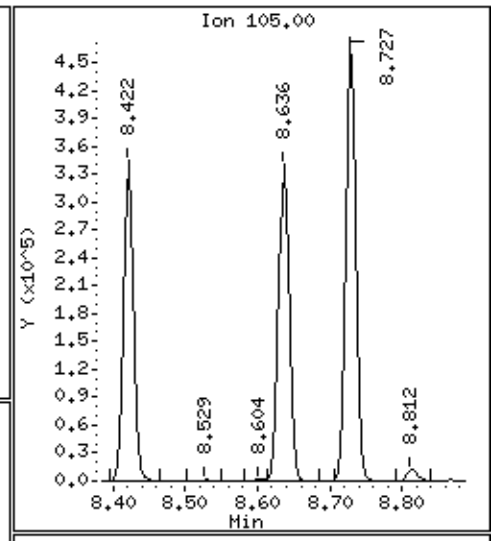
Review Code:

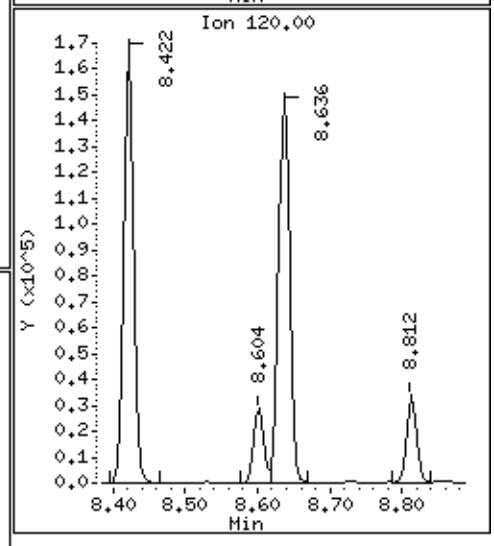












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

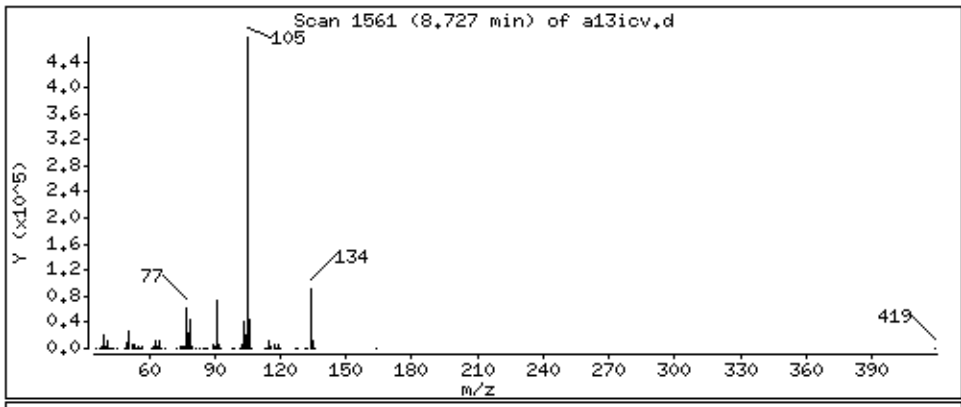
Column phase: DB-624

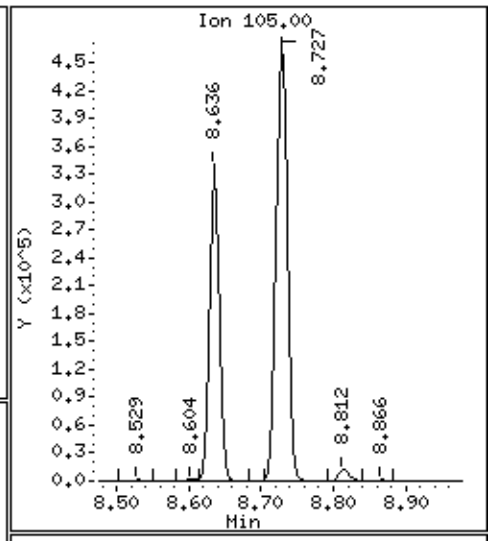
Column diameter: 0.18

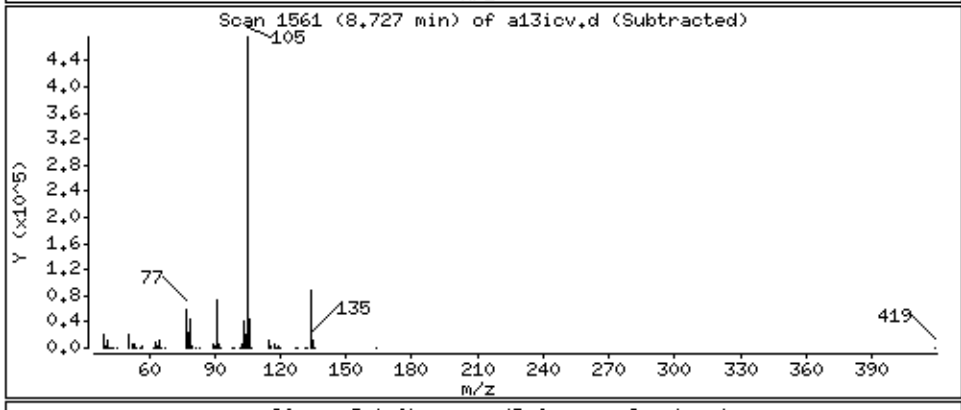
86 sec-Butylbenzene

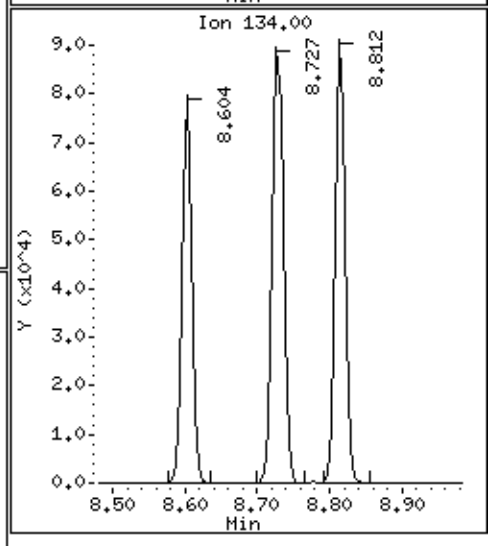
Concentration: 55.2 ppb

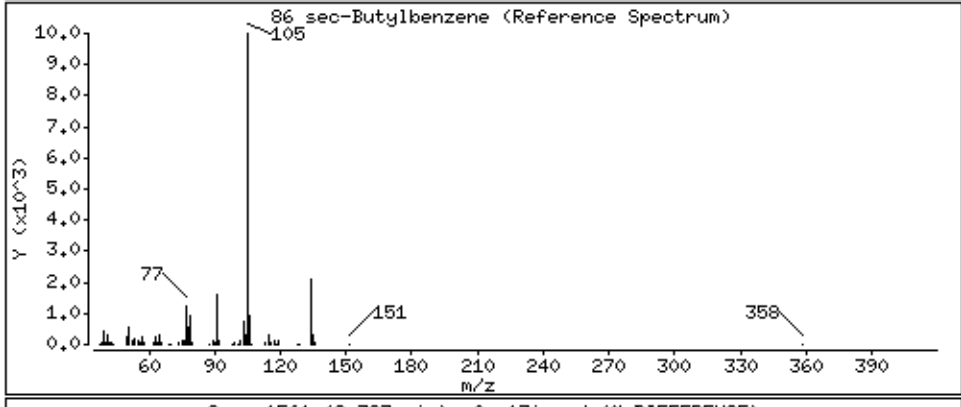
Review Code:

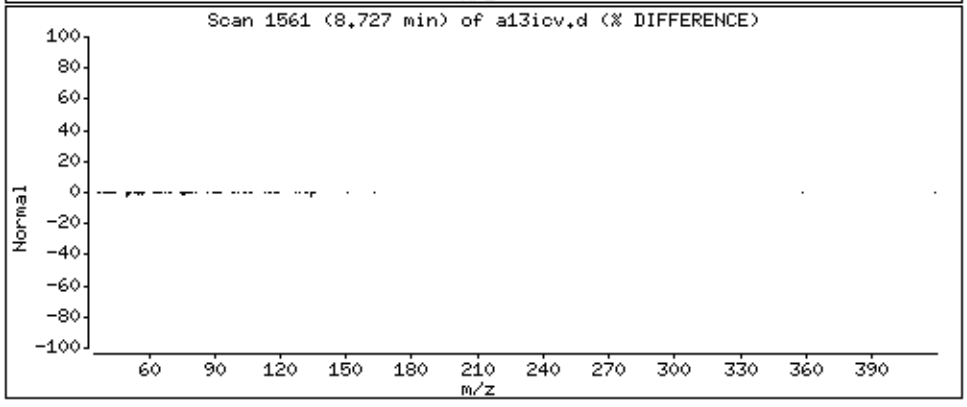












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

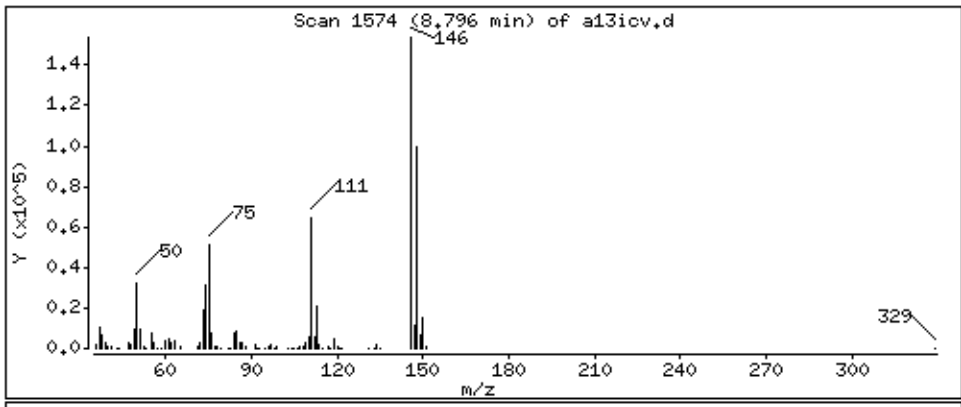
Column phase: DB-624

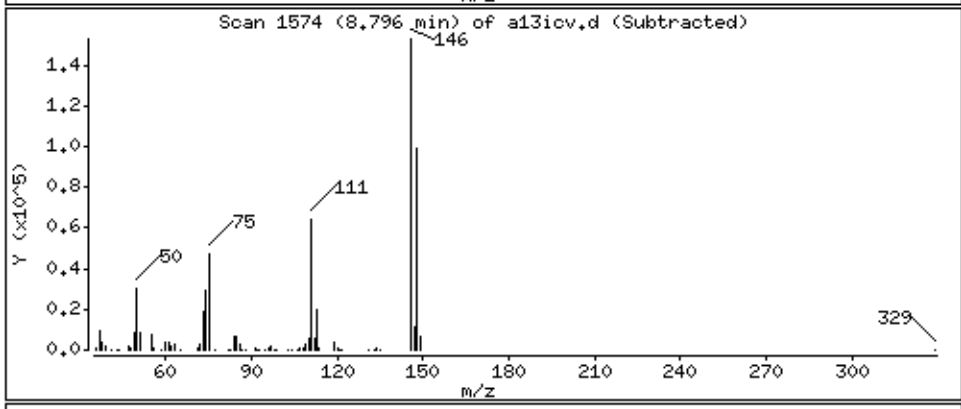
Column diameter: 0.18

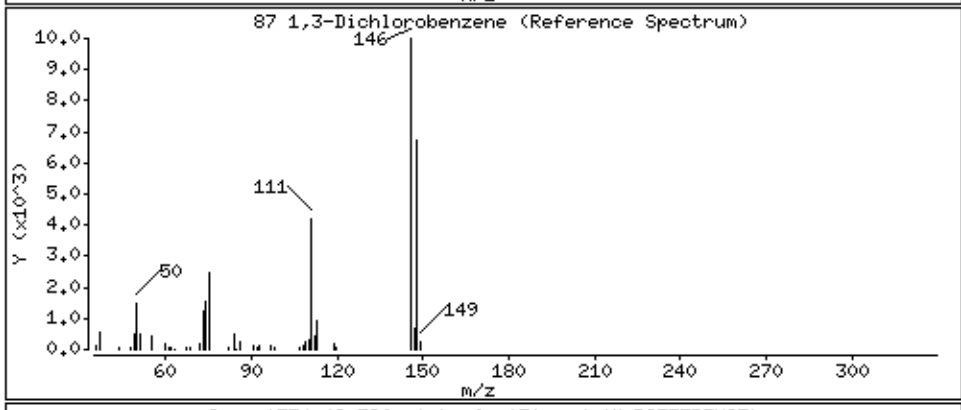
87 1,3-Dichlorobenzene

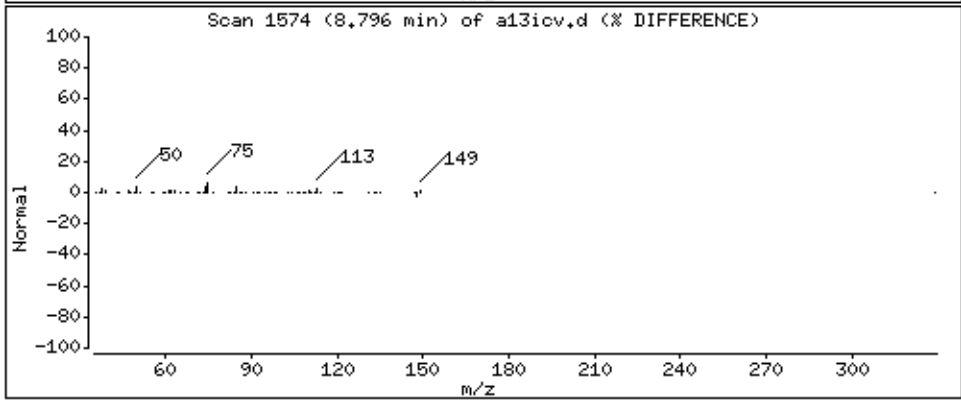
Concentration: 49.1 ppb

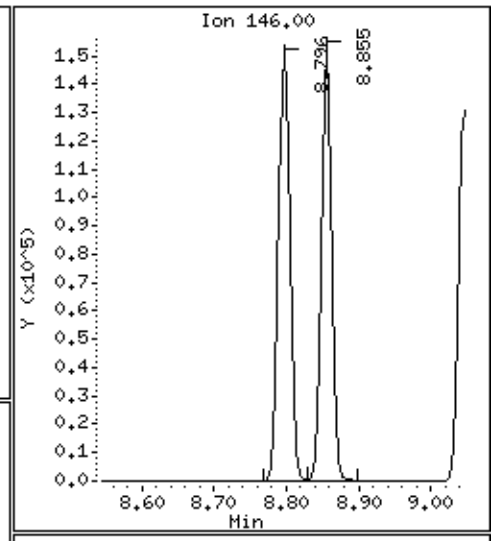
Review Code:

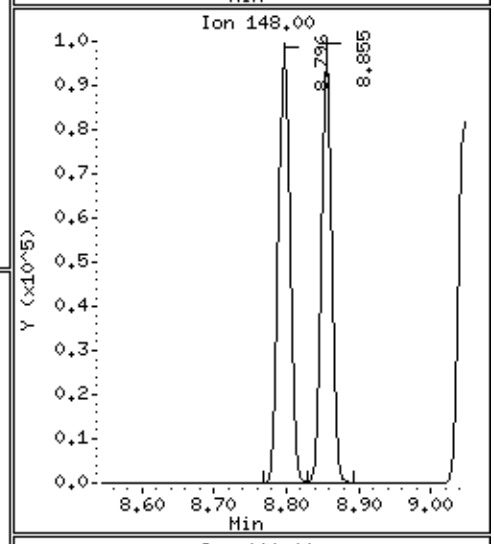


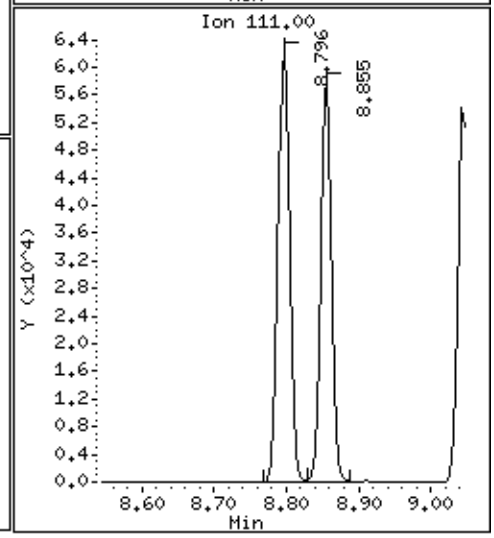












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

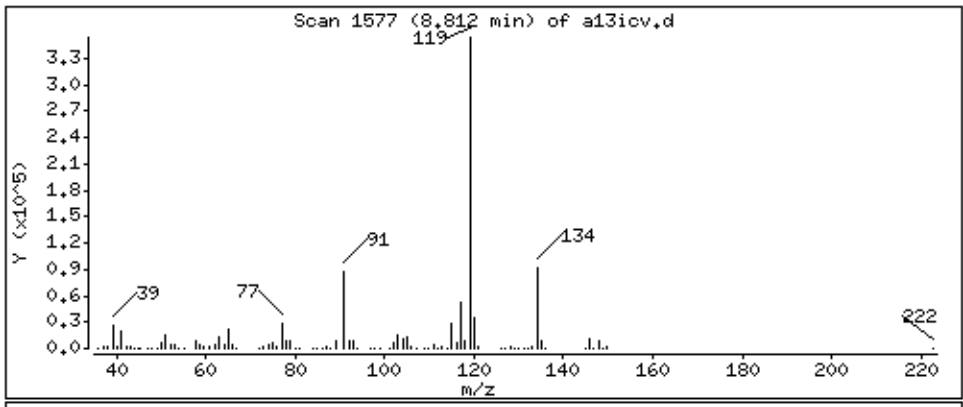
Column phase: DB-624

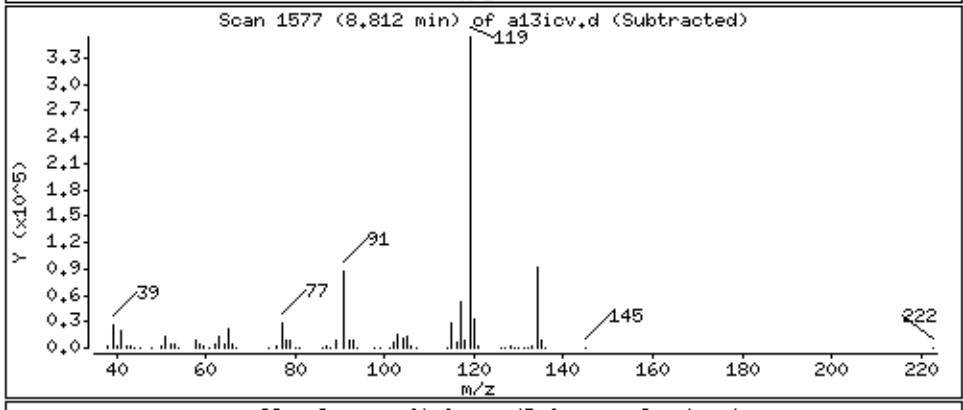
Column diameter: 0.18

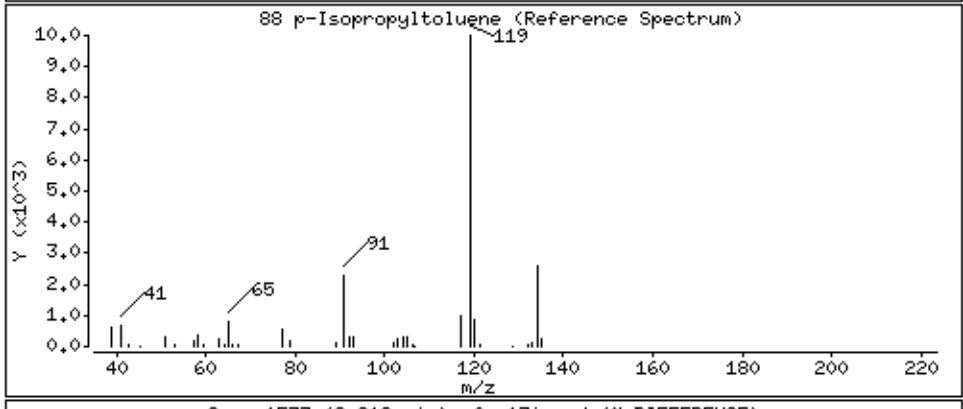
88 p-Isopropyltoluene

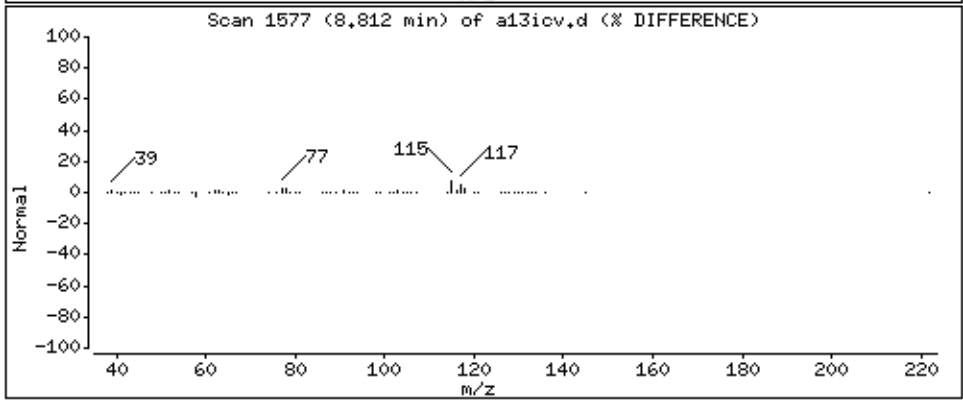
Concentration: 49.4 ppb

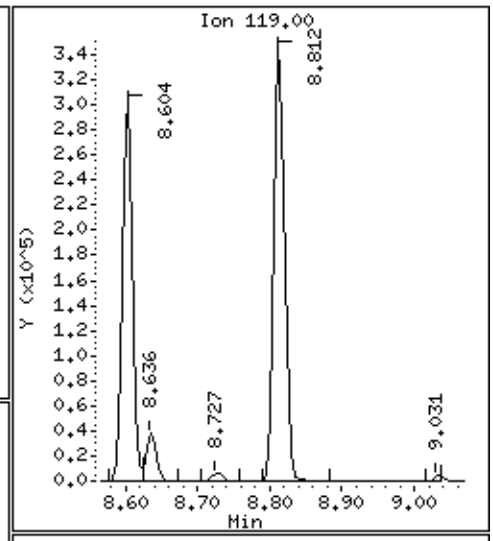
Review Code:

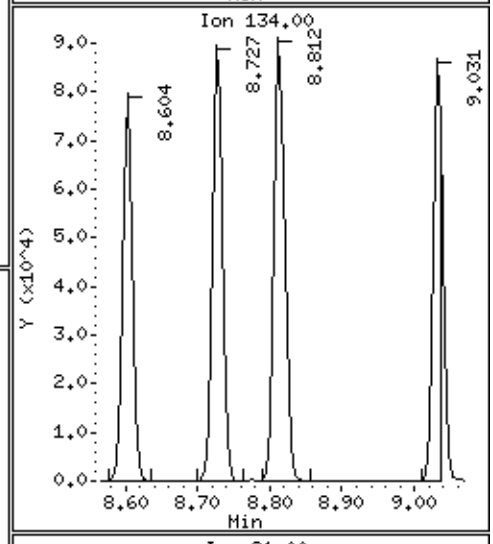


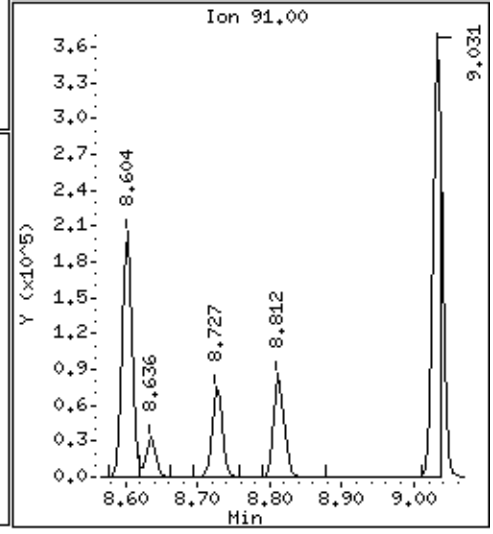












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

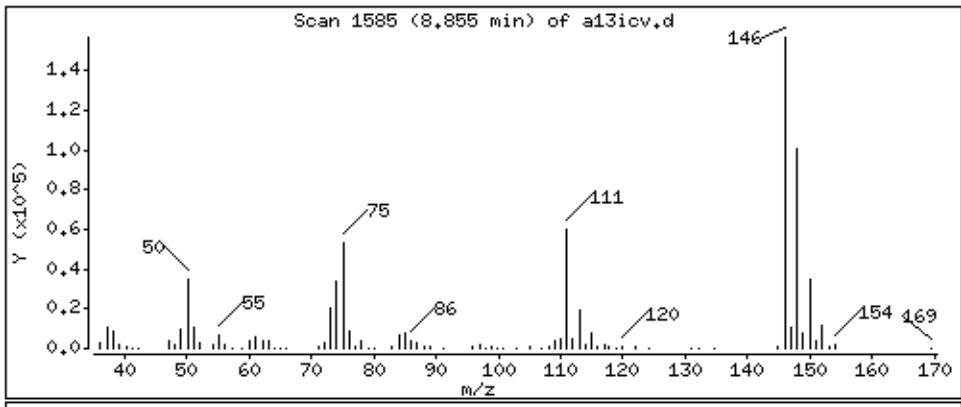
Column phase: DB-624

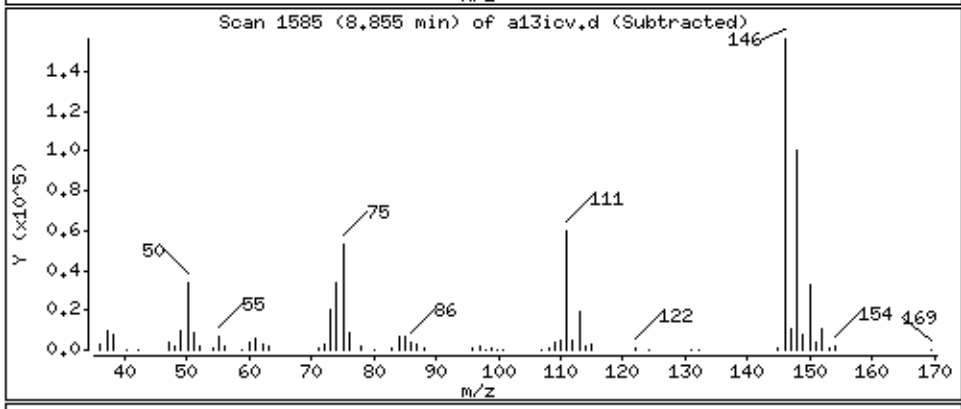
Column diameter: 0.18

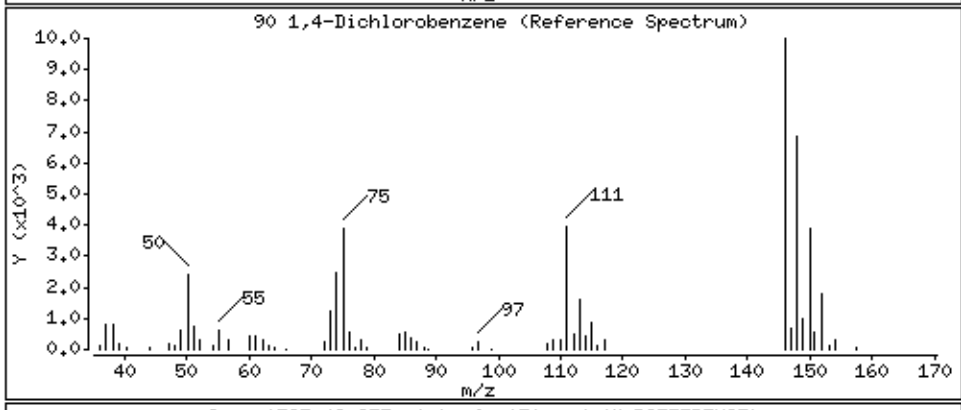
90 1,4-Dichlorobenzene

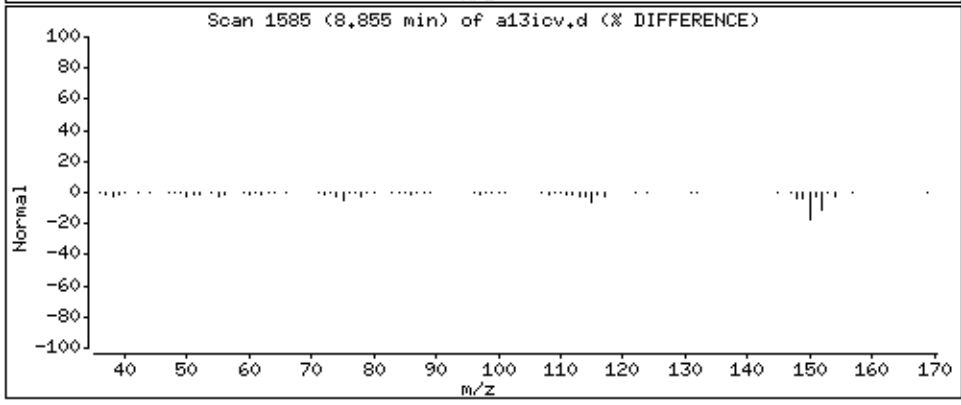
Concentration: 47.0 ppb

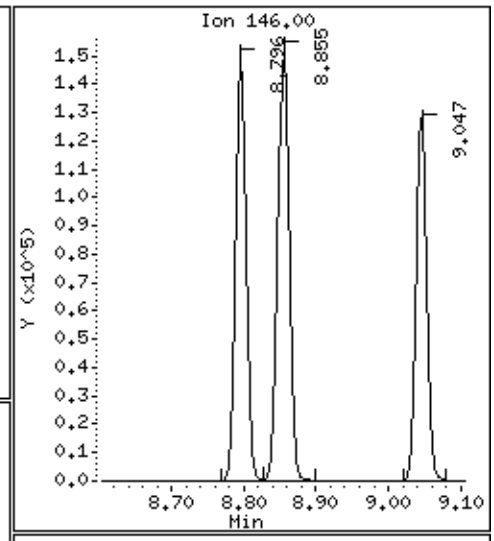
Review Code:

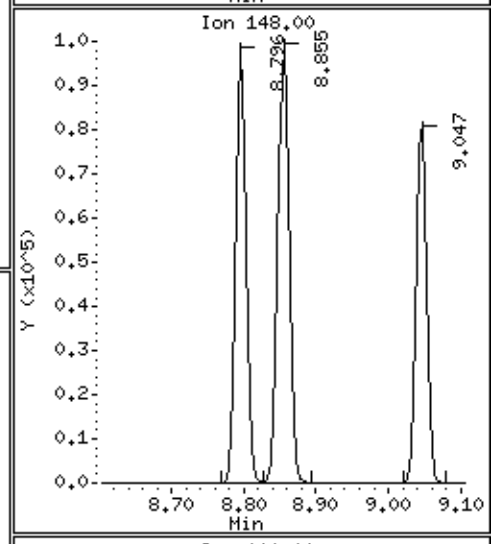


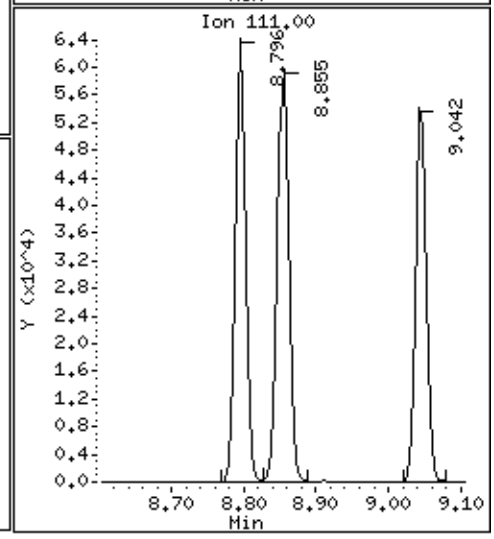












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

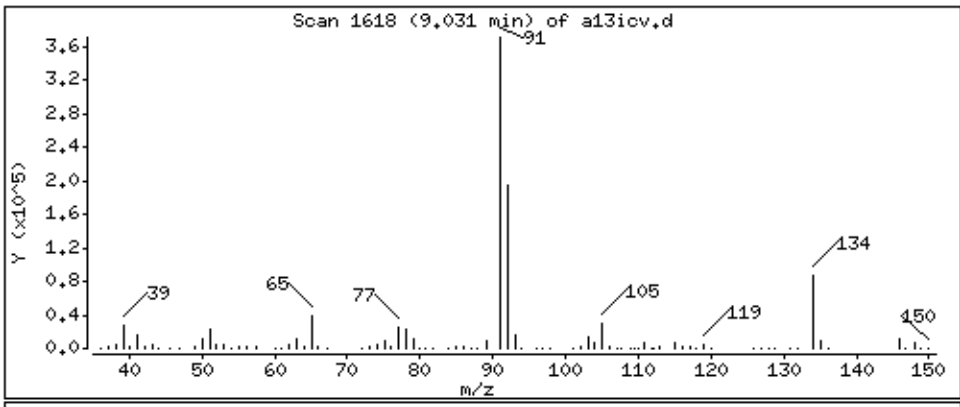
Column phase: DB-624

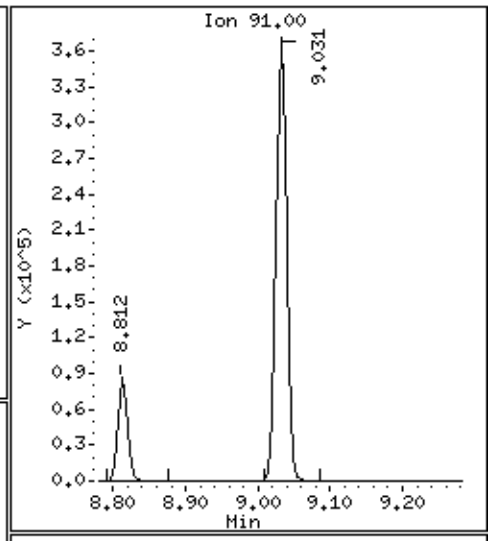
Column diameter: 0.18

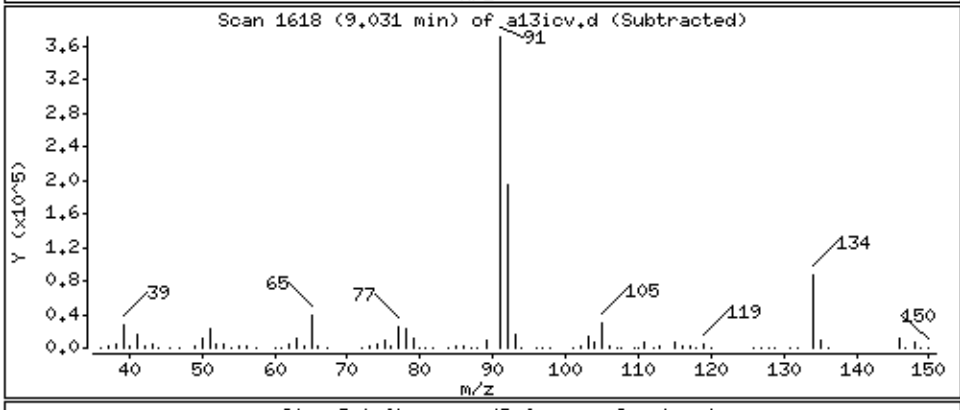
91 n-Butylbenzene

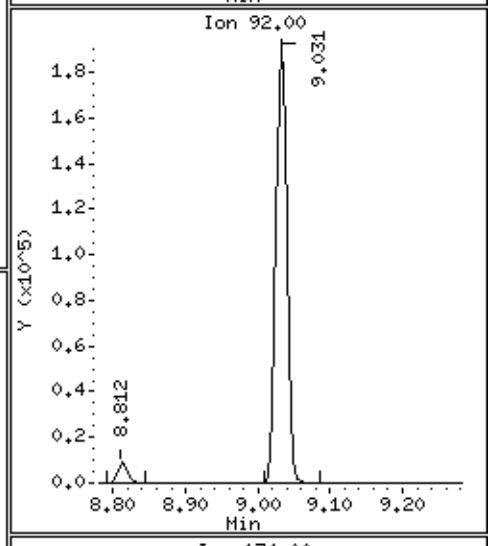
Concentration: 51.0 ppb

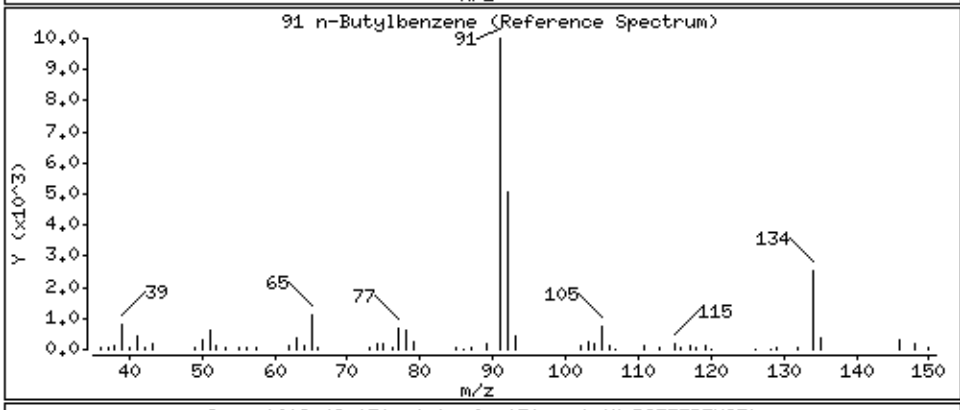
Review Code:

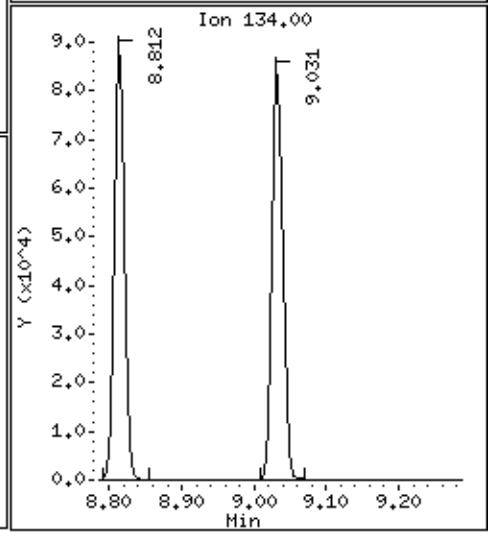


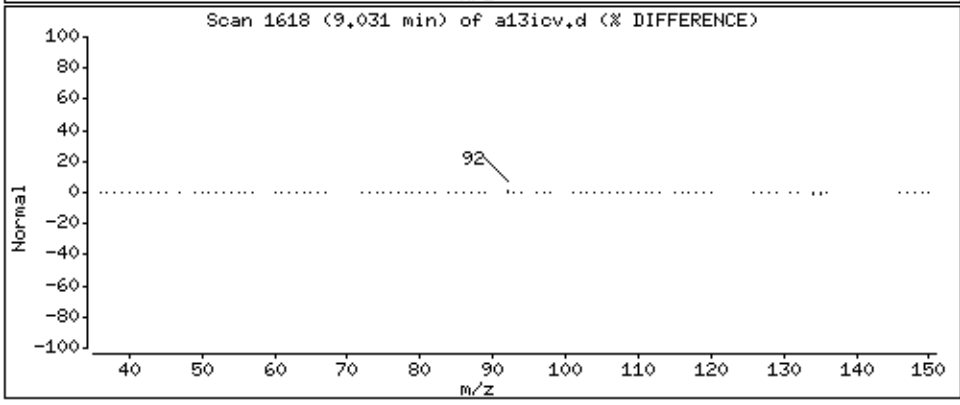












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

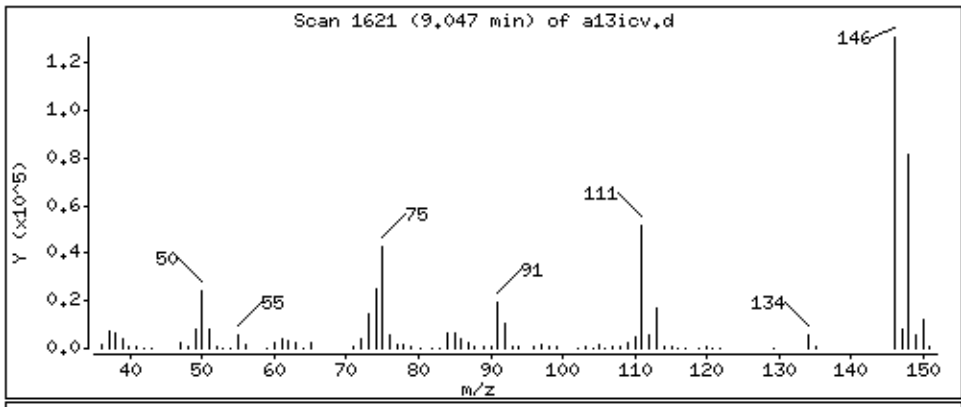
Column phase: DB-624

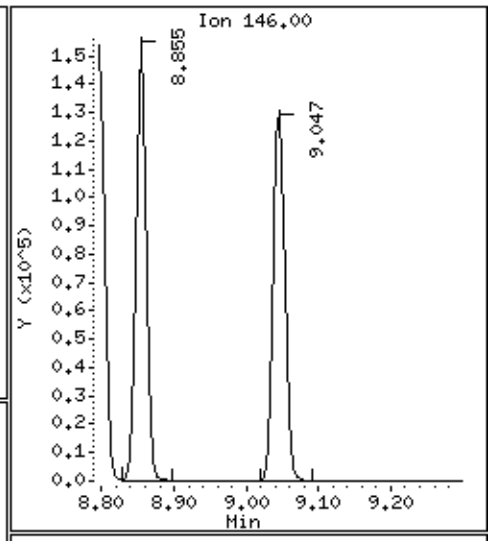
Column diameter: 0.18

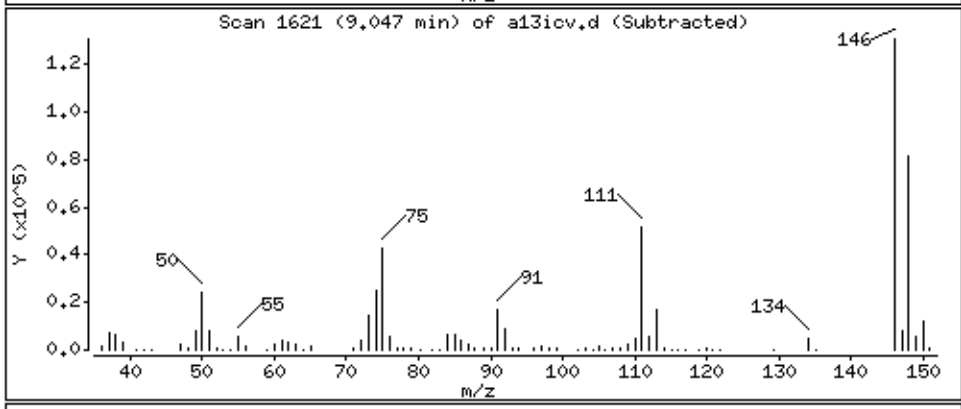
92 1,2-Dichlorobenzene

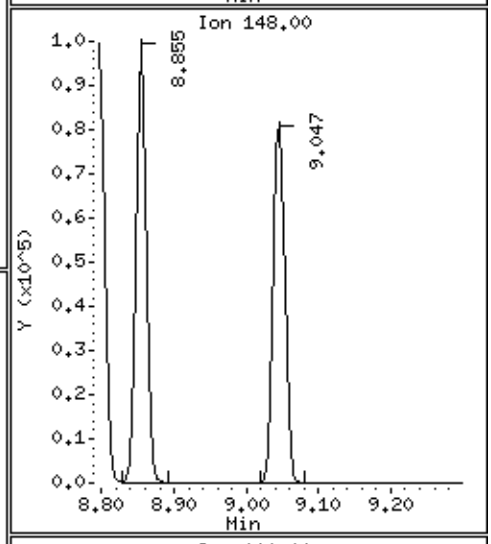
Concentration: 47.8 ppb

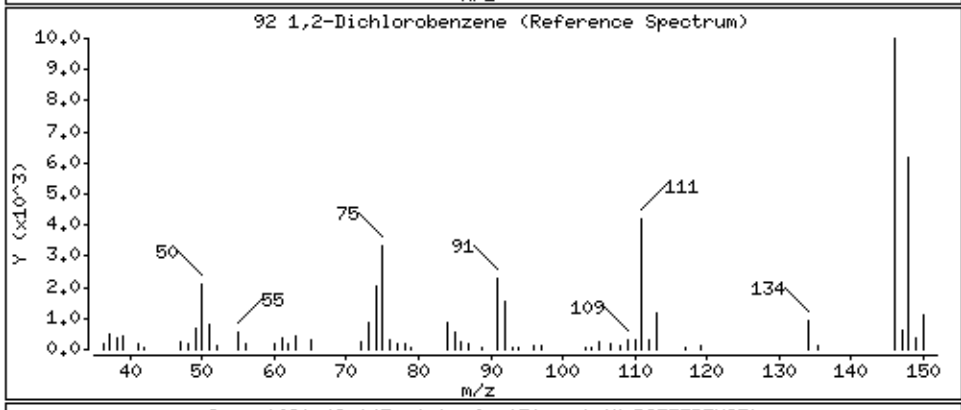
Review Code:

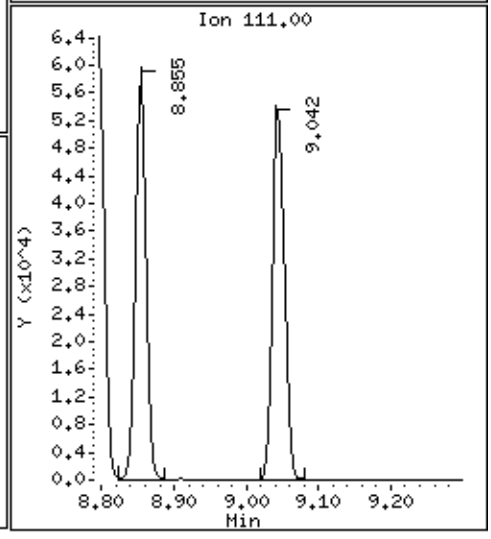


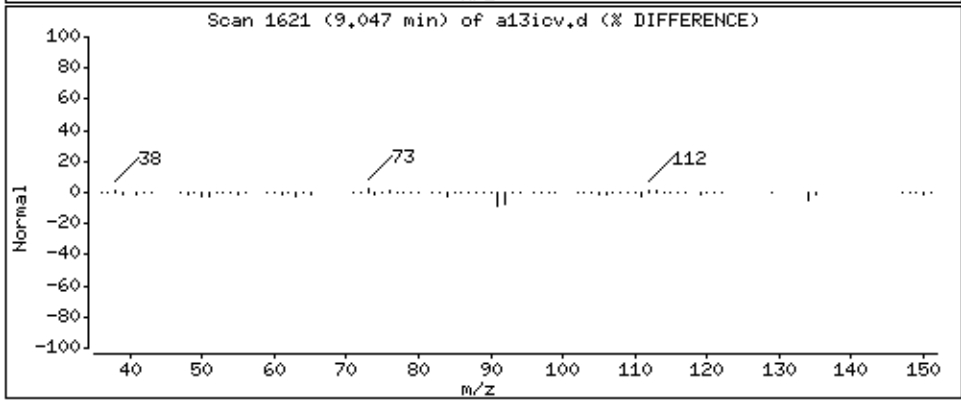












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 91

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

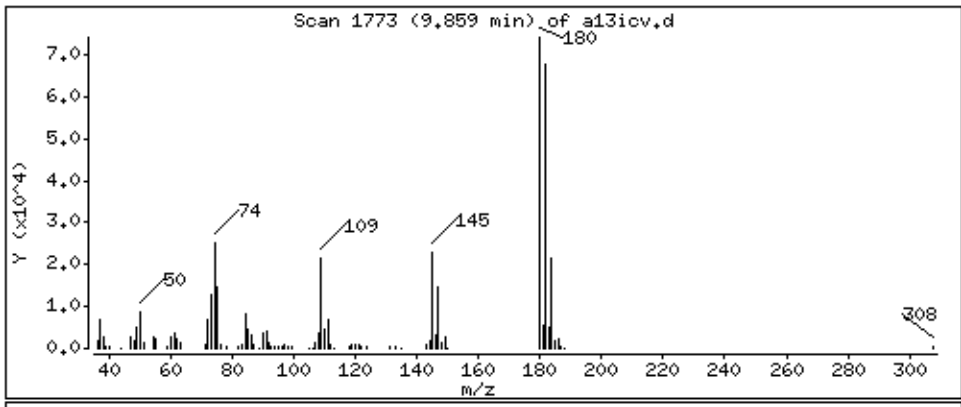
Column phase: DB-624

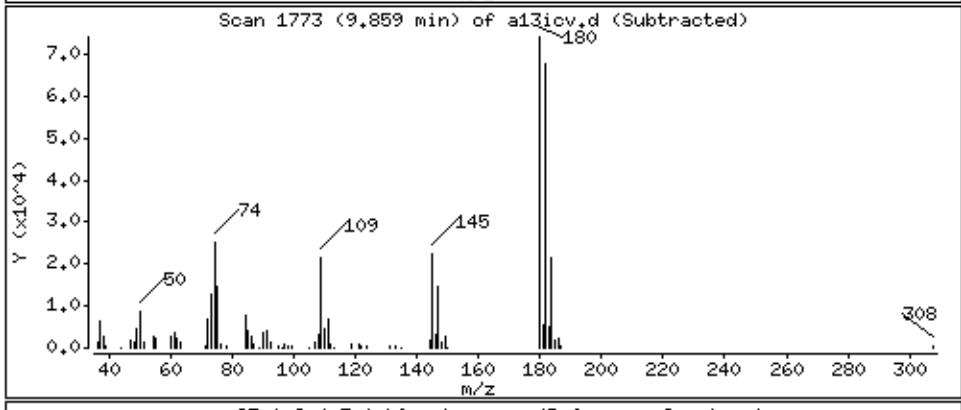
Column diameter: 0.18

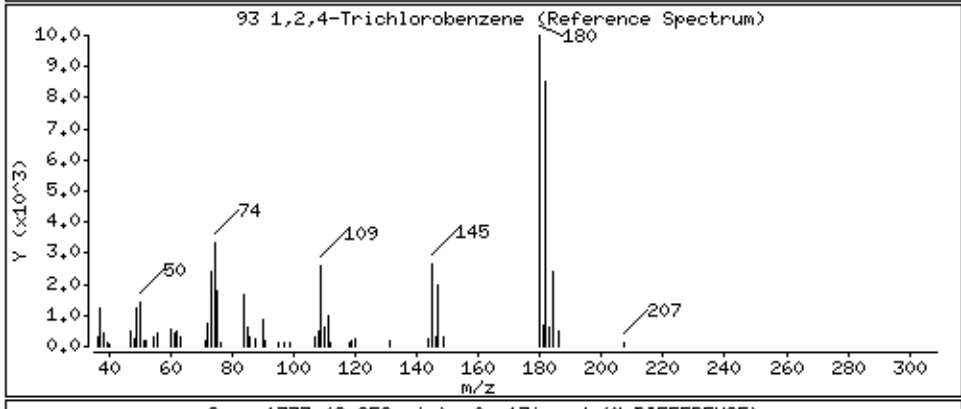
93 1,2,4-Trichlorobenzene

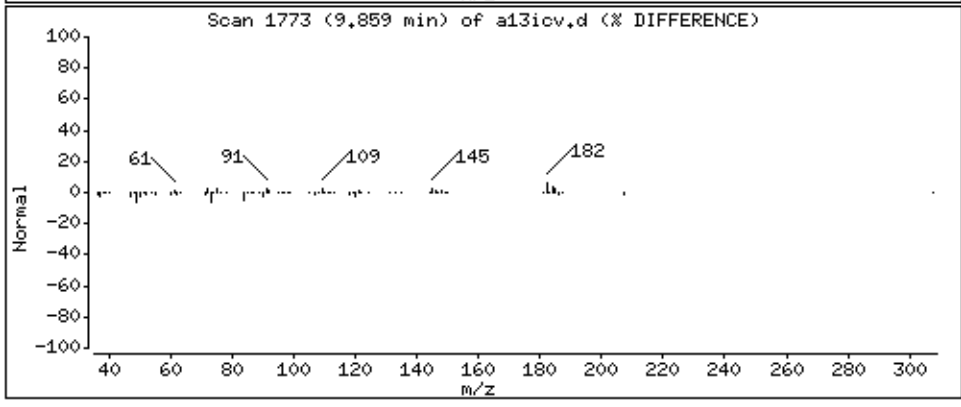
Concentration: 47.0 ppb

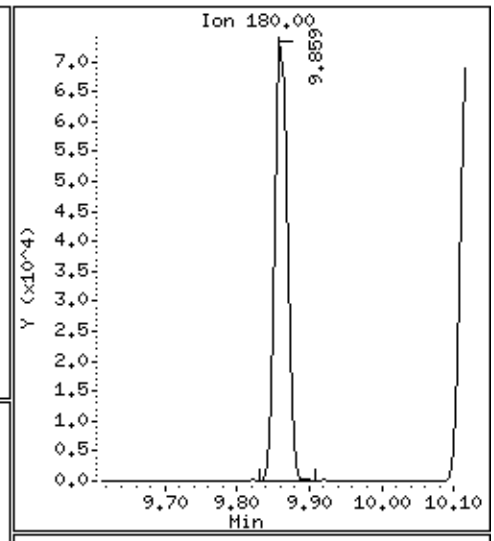
Review Code:

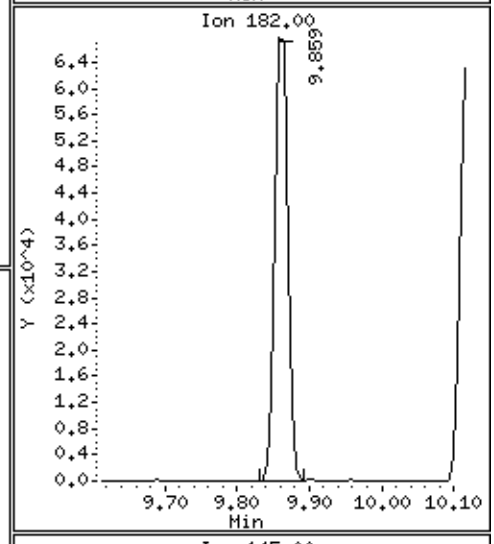


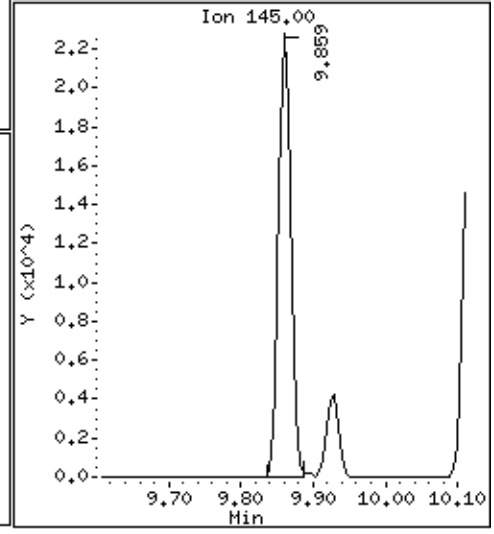












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

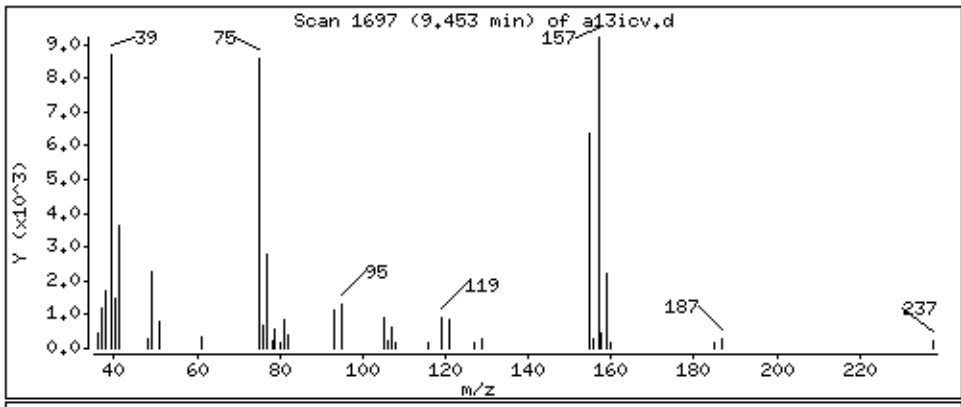
Column phase: DB-624

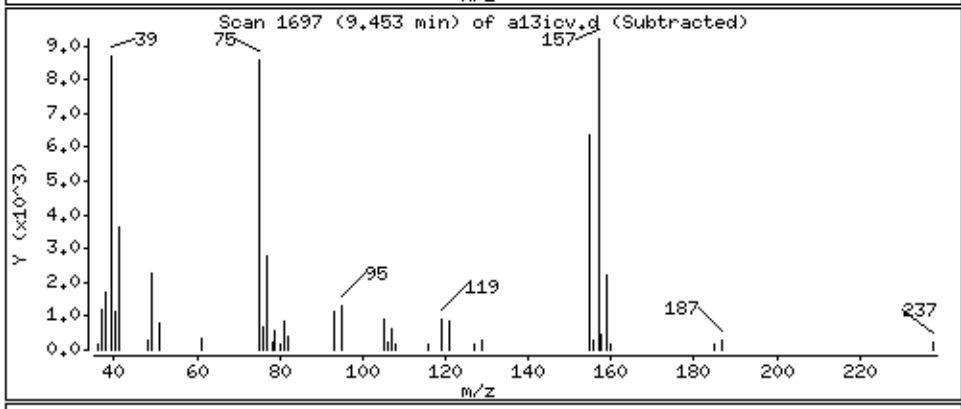
Column diameter: 0.18

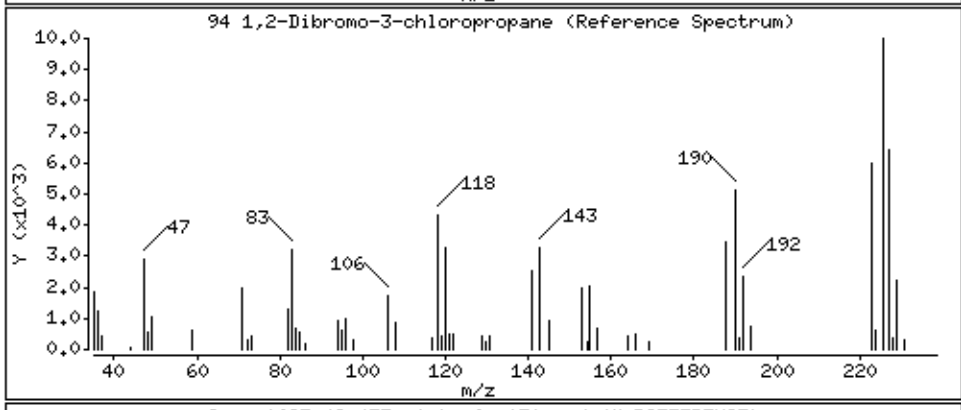
94 1,2-Dibromo-3-chloropropane

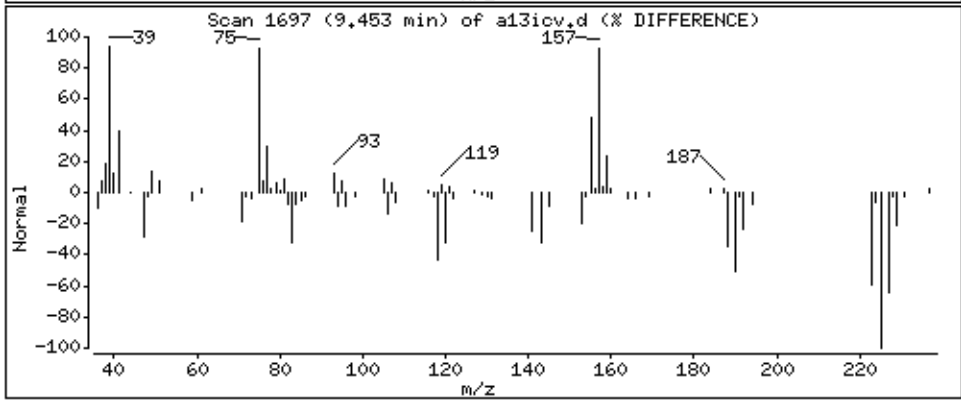
Concentration: 53.6 ppb

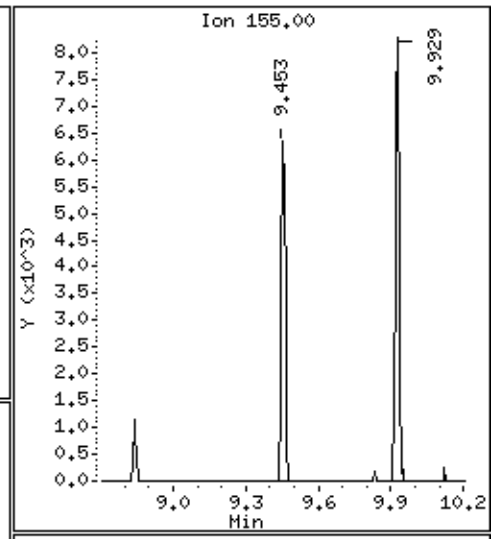
Review Code:

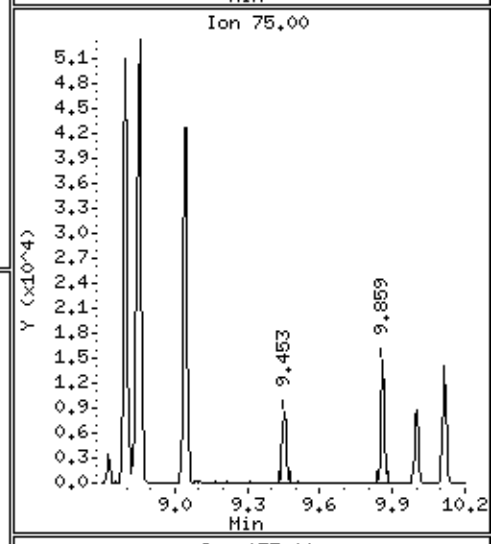


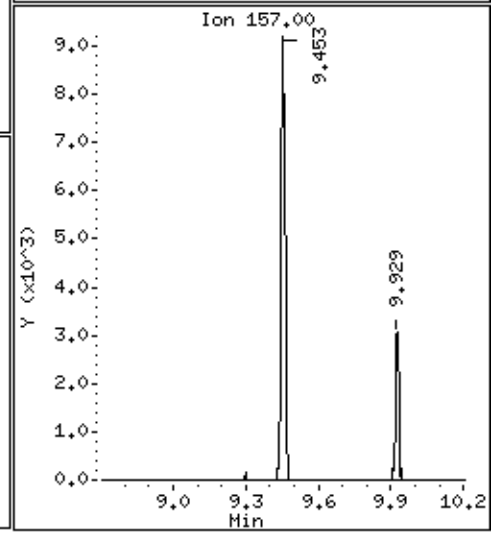












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Page 93

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

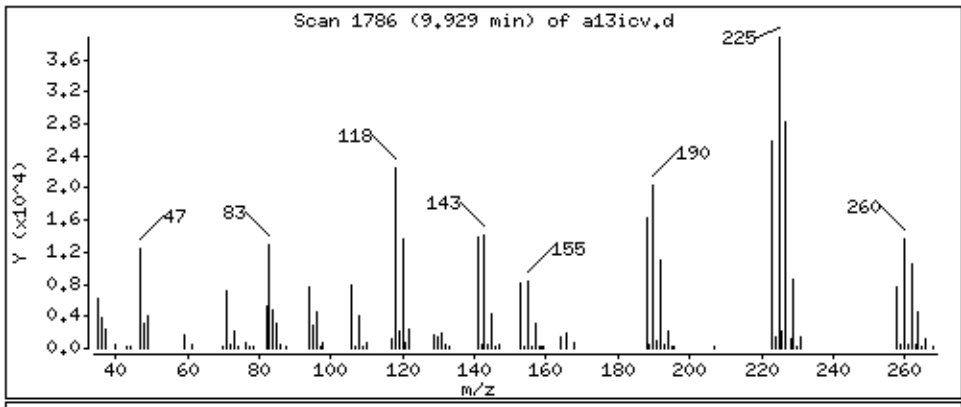
Column phase: DB-624

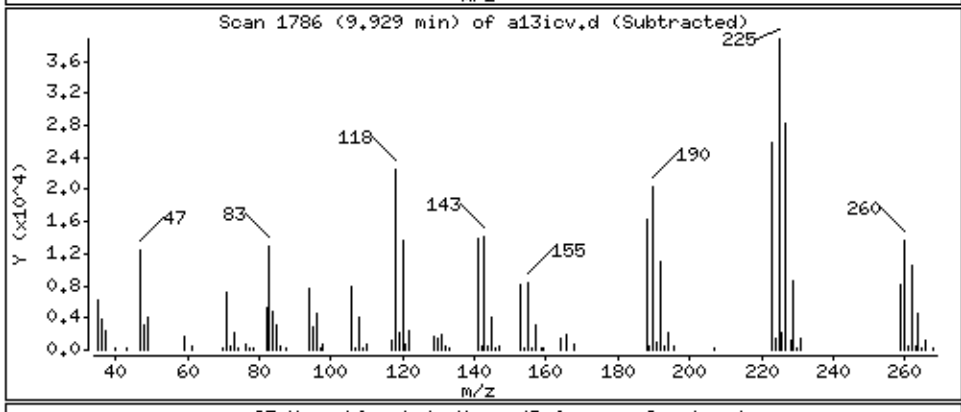
Column diameter: 0.18

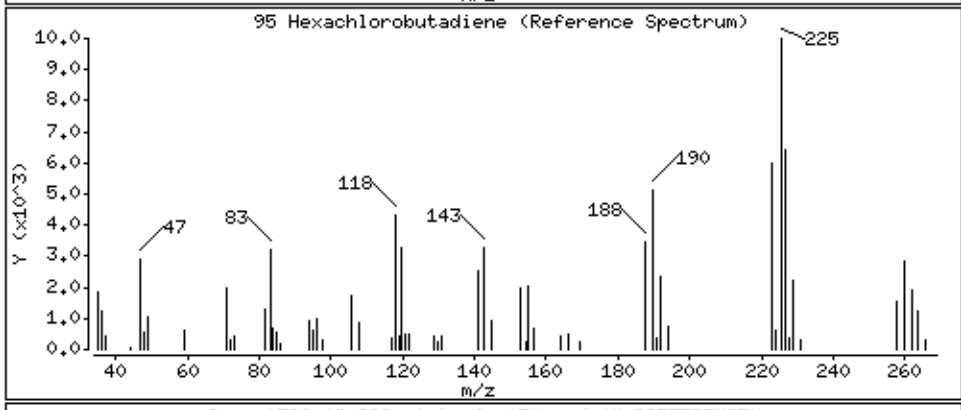
95 Hexachlorobutadiene

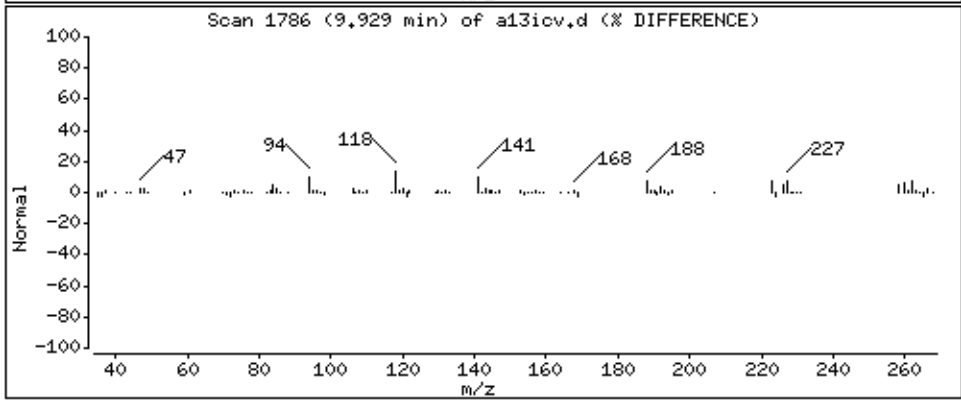
Concentration: 44.8 ppb

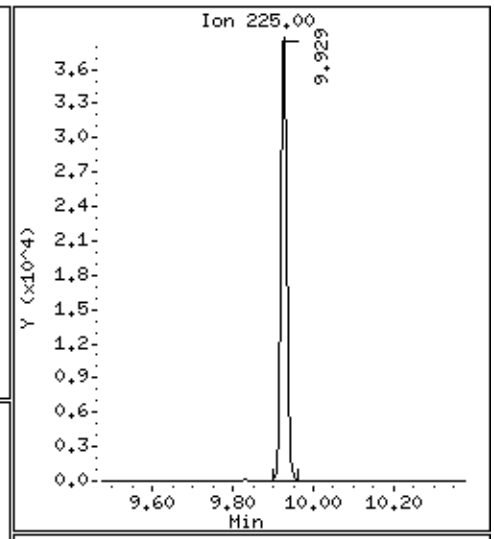
Review Code:

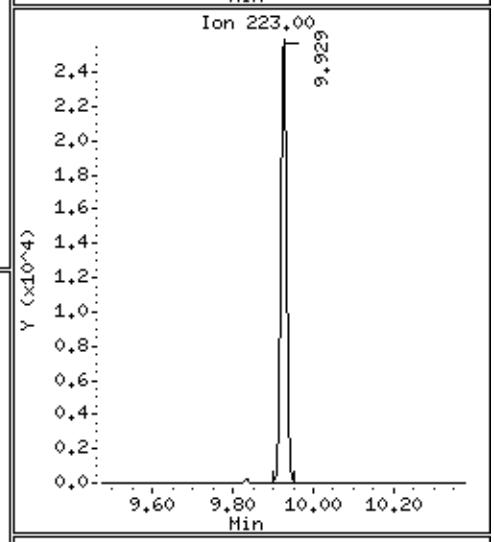


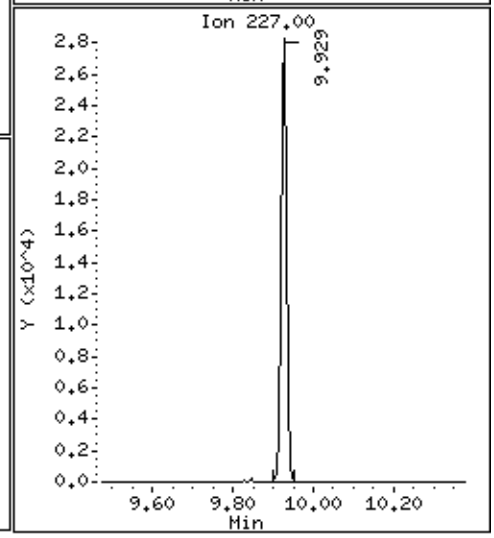












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

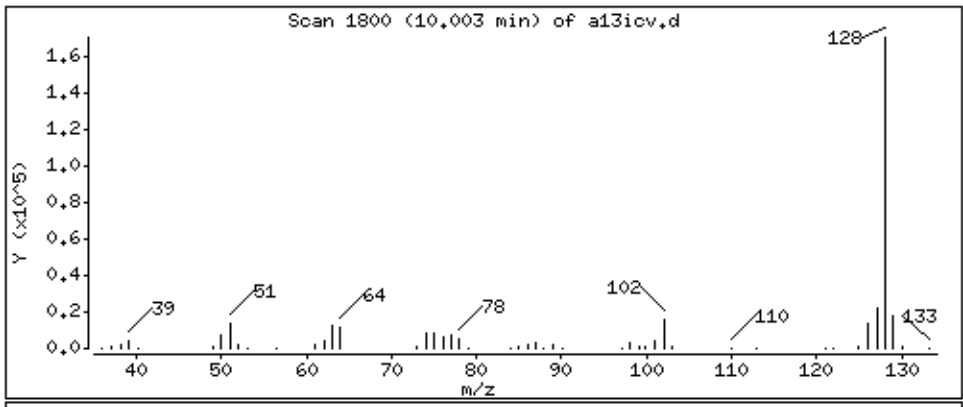
Column phase: DB-624

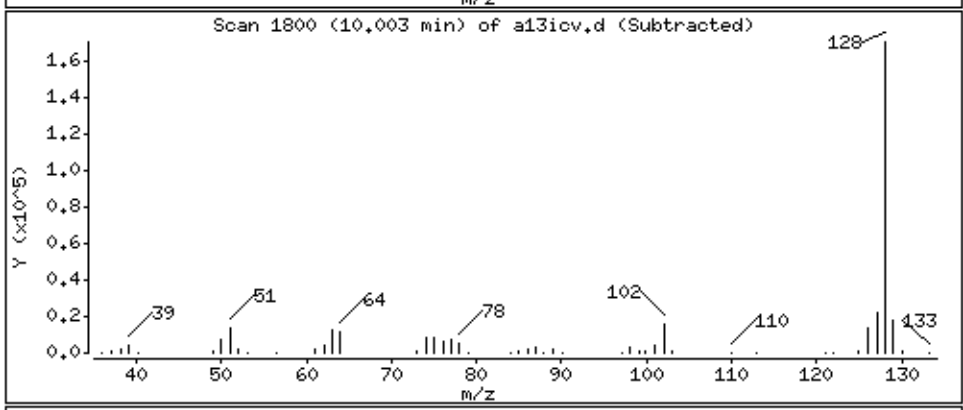
Column diameter: 0.18

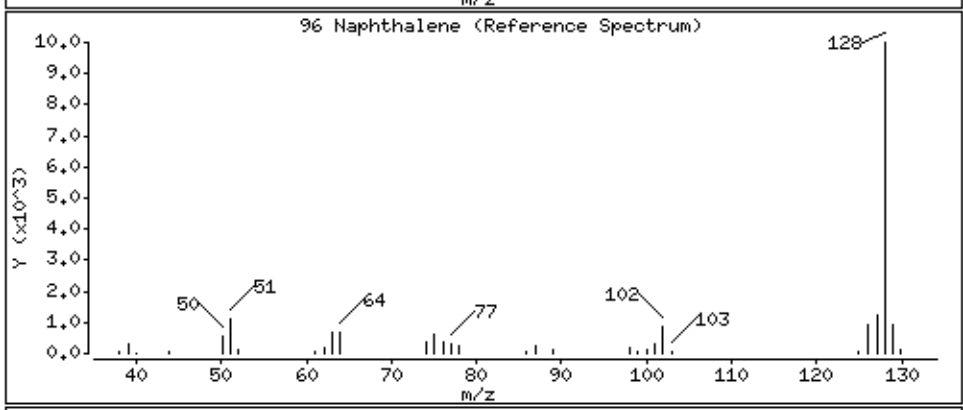
96 Naphthalene

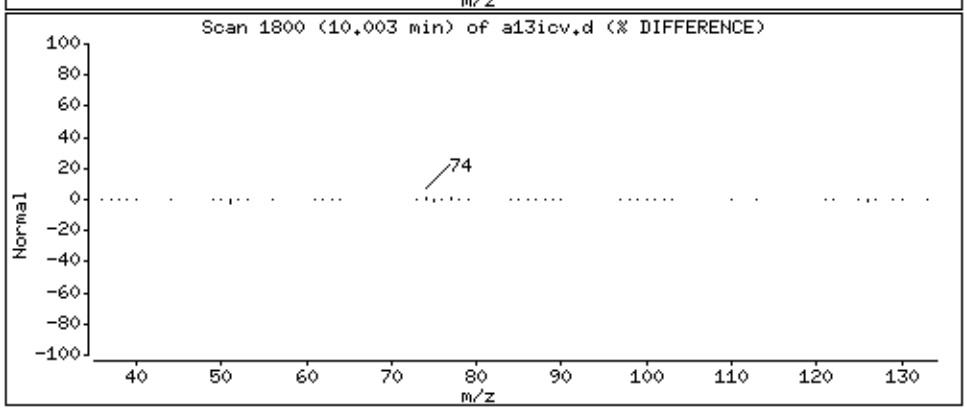
Concentration: 53.2 ppb

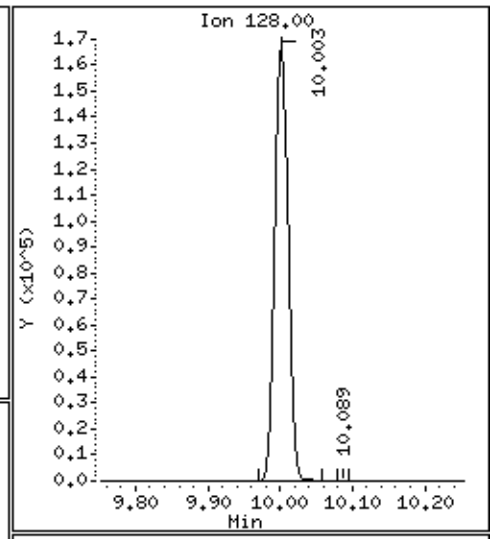
Review Code:

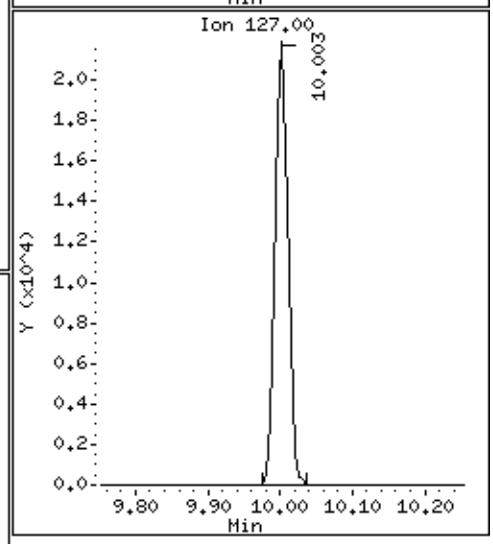












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

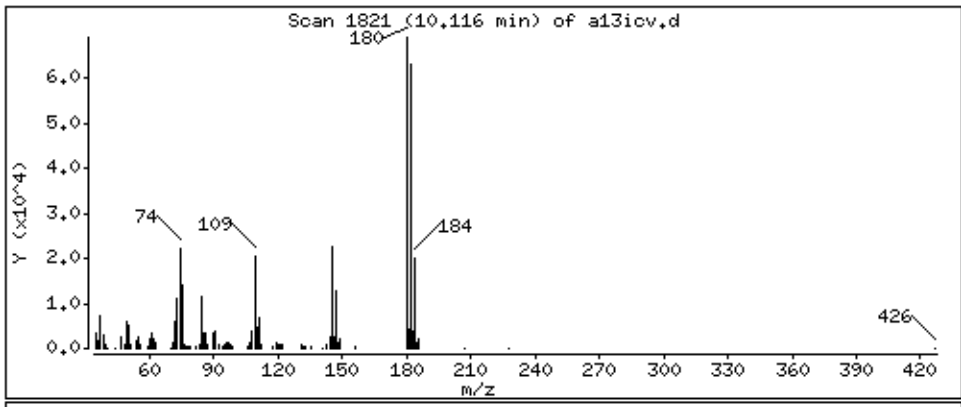
Column phase: DB-624

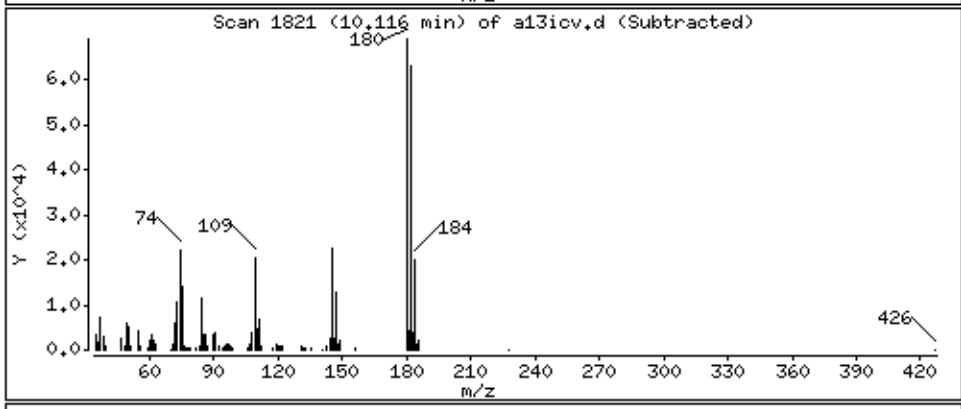
Column diameter: 0.18

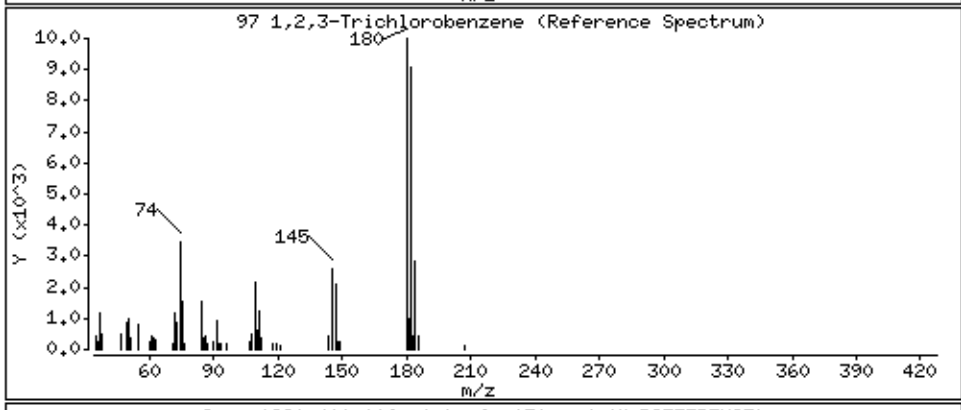
97 1,2,3-Trichlorobenzene

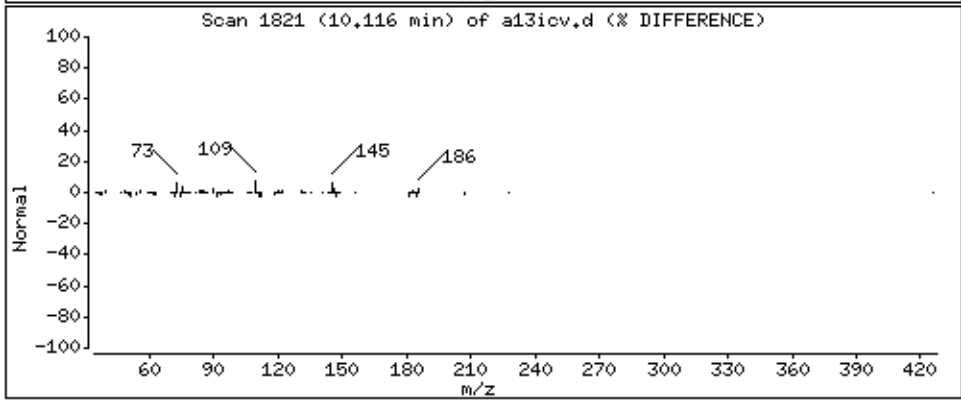
Concentration: 47.8 ppb

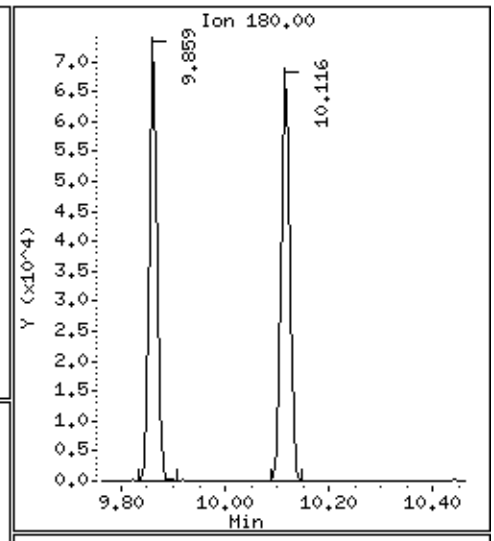
Review Code:

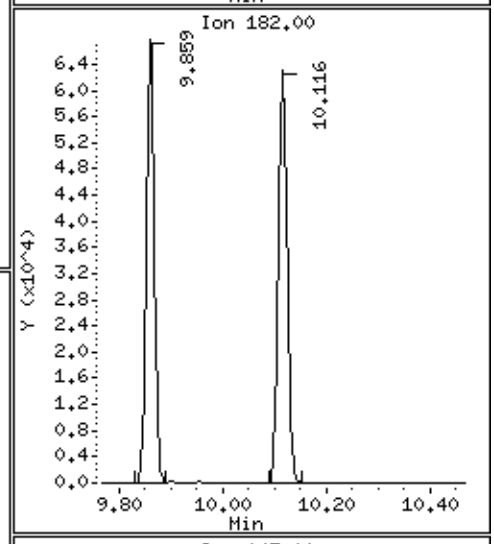


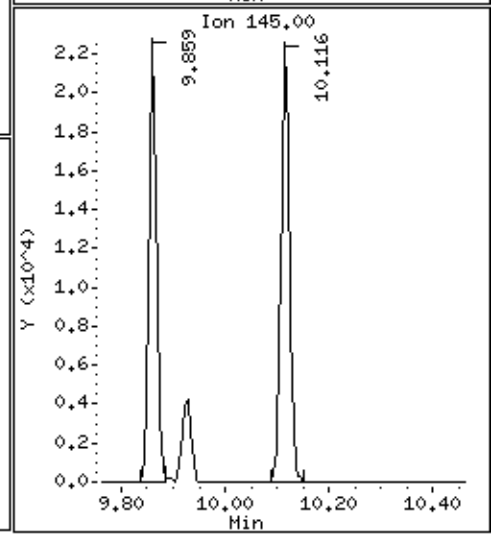












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

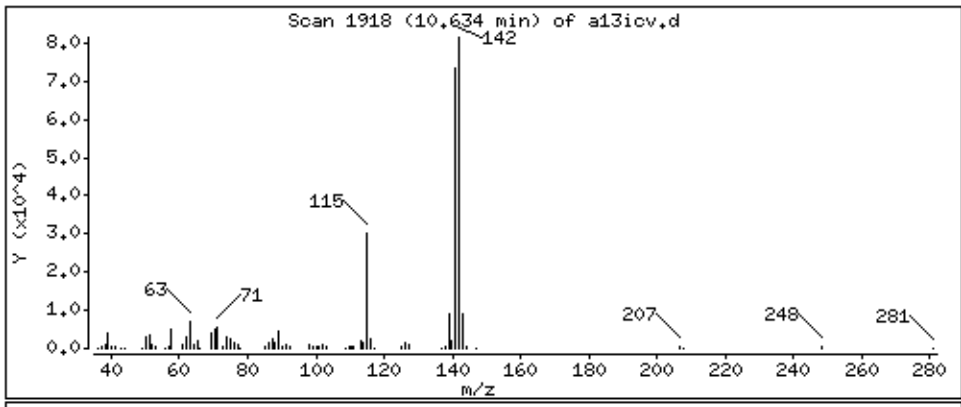
Column phase: DB-624

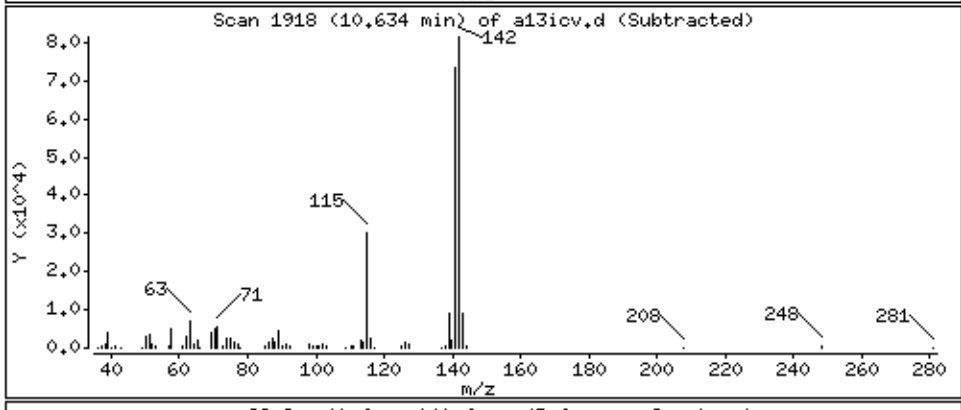
Column diameter: 0.18

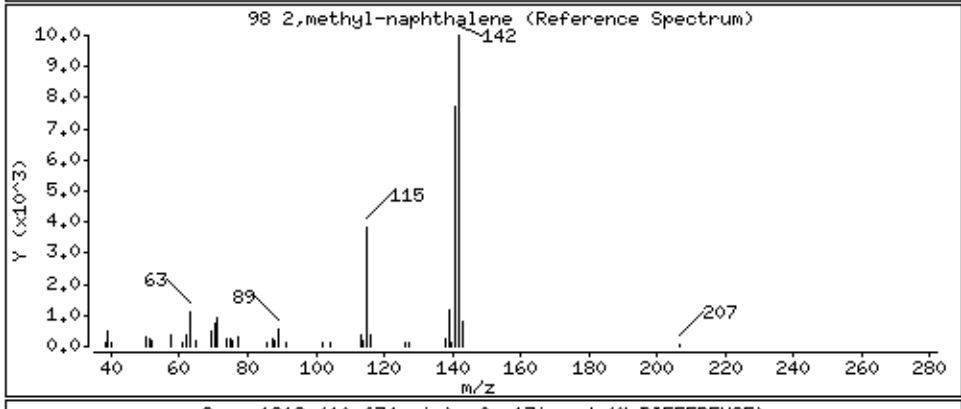
98 2,methyl-naphthalene

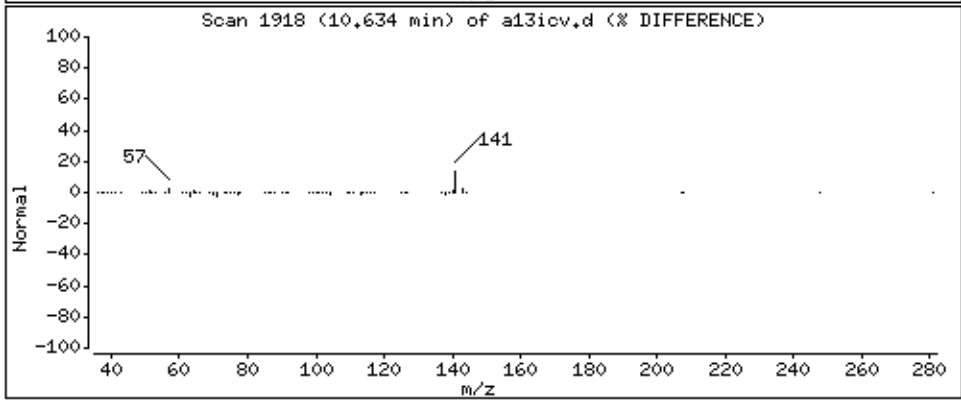
Concentration: 46.2 ppb

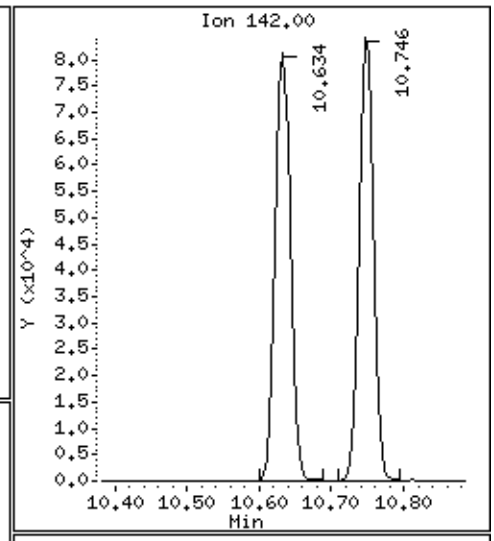
Review Code:

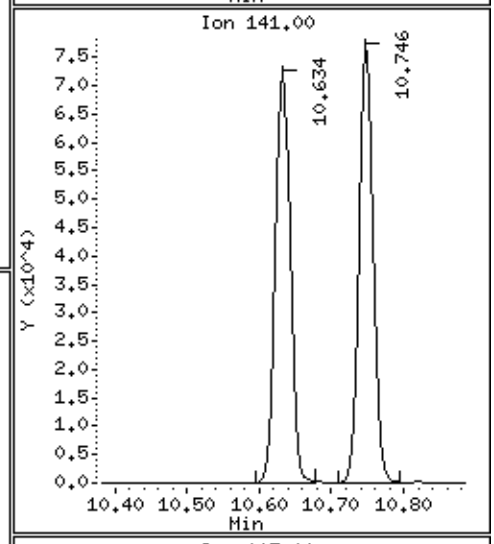


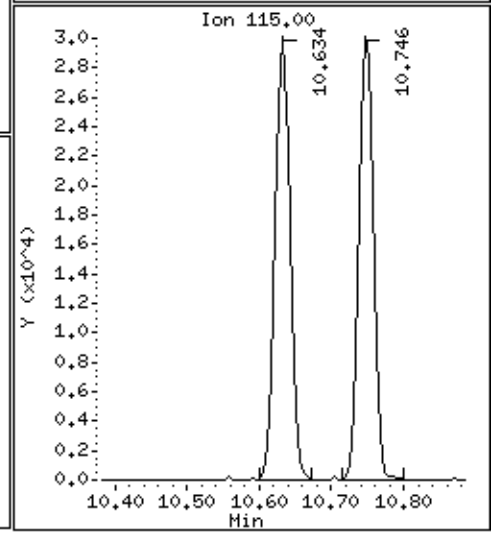












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a13icv.d

Date : 25-MAR-2016 20:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

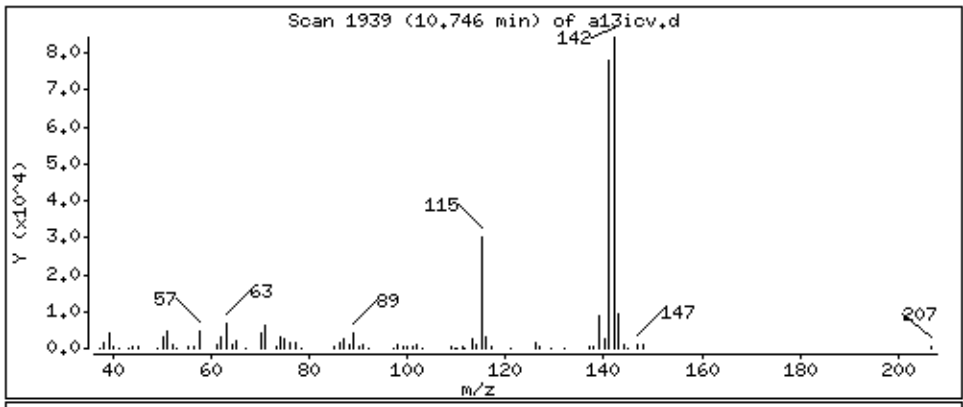
Column phase: DB-624

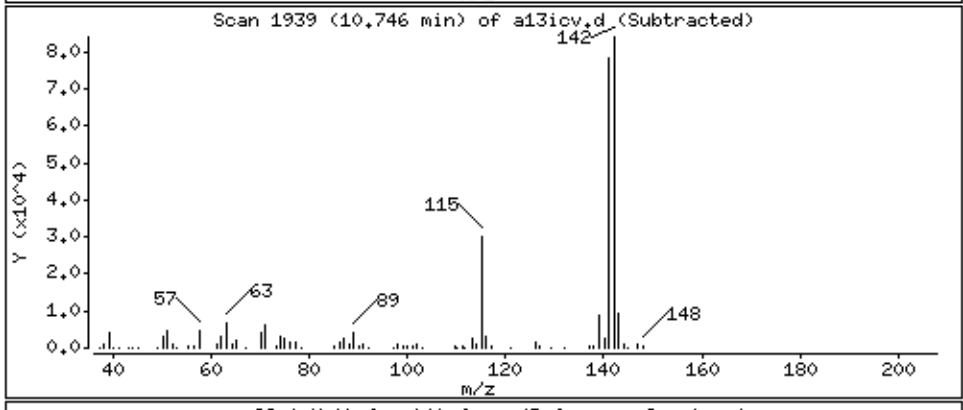
Column diameter: 0.18

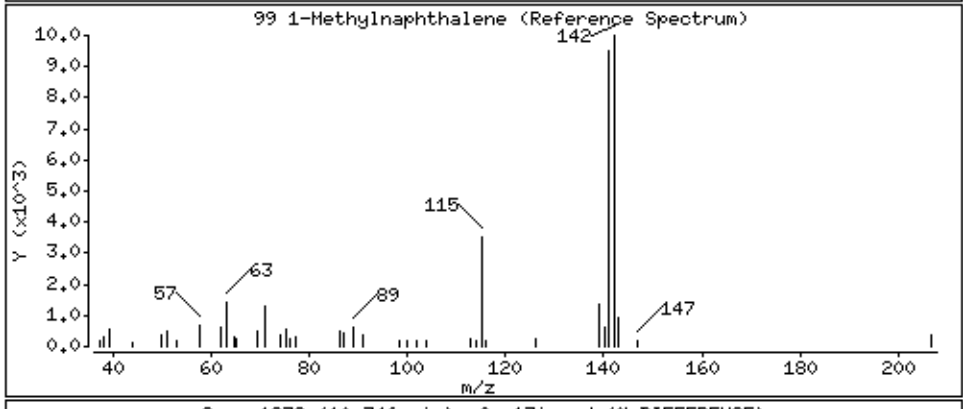
99 1-Methylnaphthalene

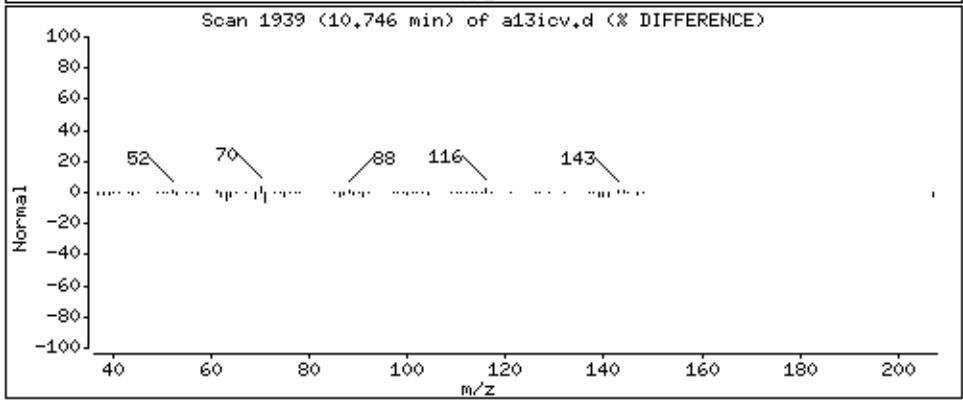
Concentration: 56.5 ppb

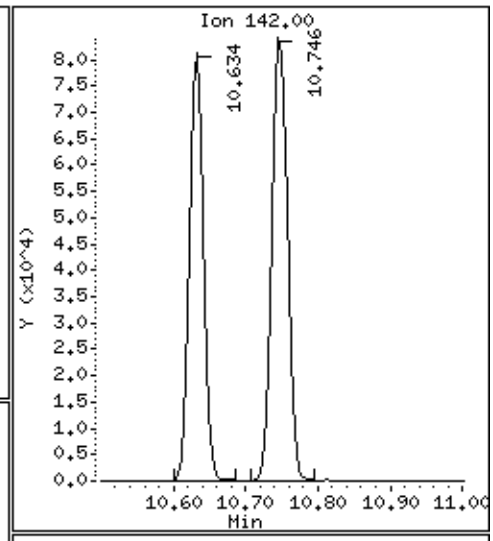
Review Code:

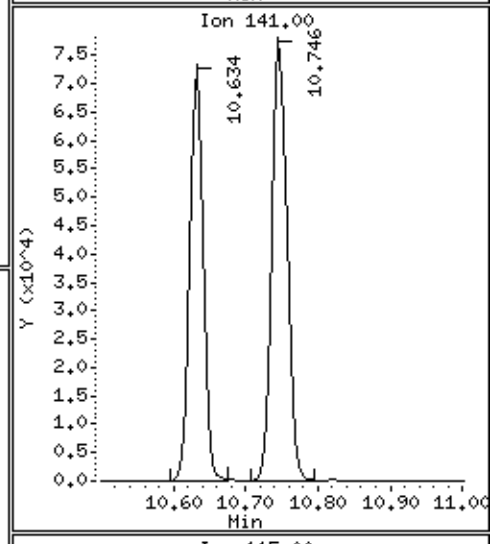


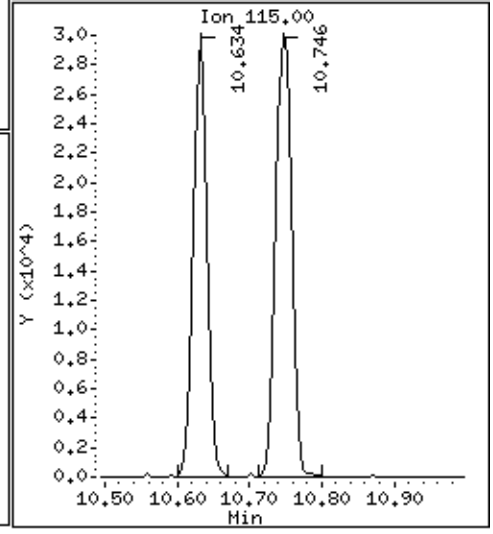












Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b/a13icv.d
Injection Date: 25-MAR-2016 20:26
Instrument: 50mv3a.i
Lab Sample ID: 8260-ICV,117894:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a01ccv.d
Lab Smp Id: 8260-CCV,118684:0
Inj Date : 11-APR-2016 10:38
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 8260-ccv,118684:0
Misc Info : 88307
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.905	0.905	(0.218)	108720	50.0000	34.1	
2	Chloromethane	50	0.991	0.991	(0.238)	152637	50.0000	35.1	
3	Vinyl Chloride	62	1.033	1.033	(0.248)	169039	50.0000	39.4	
4	Bromomethane	94	1.183	1.183	(0.284)	79009	50.0000	36.9	
5	Chloroethane	64	1.226	1.226	(0.294)	96394	50.0000	39.4	
6	Trichlorofluoromethane	101	1.343	1.343	(0.323)	231058	50.0000	43.1	
7	Diethyl ether	74	1.466	1.466	(0.352)	82726	50.0000	47.5	
8	1,2-dichlorotrifluoroethane	67	1.482	1.482	(0.356)	189058	50.0000	46.8	
9	Acrolein	56	1.535	1.535	(0.369)	245899	1000.00	649	
10	1,1,2trichlorotrifluoroethane	101	1.589	1.589	(0.382)	178616	50.0000	50.4	
11	1,1-Dichloroethene	96	1.594	1.594	(0.383)	150638	50.0000	49.7	
12	Acetone	43	1.605	1.605	(0.386)	139306	250.000	218	
13	Iodomethane	142	1.680	1.680	(0.404)	372440	100.000	116	
14	Carbon Disulfide	76	1.728	1.728	(0.415)	449926	50.0000	44.8	
15	Methyl Acetate	43	1.770	1.770	(0.425)	72553	50.0000	42.4	
16	allyl chloride	41	1.786	1.786	(0.429)	534122	100.000	90.0	
17	Acetonitrile	39	1.786	1.786	(0.429)	368415	50.0000	44.9	
18	Methylene Chloride	84	1.861	1.861	(0.447)	108987	50.0000	42.2	
19	Acrylonitrile	53	2.000	2.000	(0.480)	121936	200.000	200	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	279770	50.0000	47.1	
21	tert-Butyl Alcohol	59	1.904	1.904	(0.457)	11033	100.000	81.0	
22	1,2-Dichloroethene (trans)	96	2.038	2.038	(0.489)	128280	50.0000	46.1	
23	n-Hexane	57	2.219	2.219	(0.533)	254838	50.0000	42.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.326	2.326	(0.559)	877065	200.000	197	
	25 1,1-Dichloroethane	63	2.342	2.342	(0.563)	231420	50.0000	46.4	
	26 Chloroprene	53	2.395	2.395	(0.575)	226877	50.0000	49.4	
	27 2-Butanone	43	2.796	2.796	(0.672)	235370	250.000	249	
	28 1,2-Dichloroethene (cis)	96	2.812	2.812	(0.675)	135310	50.0000	48.9	
	29 2,2-Dichloropropane	77	2.823	2.823	(0.678)	157407	50.0000	51.2	
	30 Propionitrile	54	2.860	2.860	(0.687)	8610	50.0000	40.5(Q)	
	31 Methacrylonitrile	41	3.004	3.004	(0.722)	60218	50.0000	46.0	
	32 Bromochloromethane	49	3.047	3.047	(0.732)	97485	50.0000	49.2	
	33 Tetrahydrofuran	42	3.063	3.063	(0.736)	29238	50.0000	49.3	
	34 Chloroform	83	3.159	3.159	(0.759)	210315	50.0000	47.8	
$	35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	111688	50.0000	49.1	
	36 1,1,1-Trichloroethane	97	3.330	3.330	(0.800)	205906	50.0000	54.2	
	37 Cyclohexane	56	3.421	3.421	(0.822)	250207	50.0000	48.0	
	38 n-Butyl chloride	56	3.480	3.480	(0.836)	304347	50.0000	51.7	
	39 Carbon Tetrachloride	117	3.517	3.517	(0.845)	175691	50.0000	55.0	
	40 1,1-Dichloropropene	75	3.522	3.522	(0.846)	185447	50.0000	49.8	
	41 Benzene	78	3.763	3.763	(0.904)	507247	50.0000	48.5	
	42 1,2-Dichloroethane	62	3.853	3.853	(0.926)	141740	50.0000	49.4	
	43 2,2,4-Trimethylpentane	57	3.944	3.944	(0.947)	608086	50.0000	52.4	
	44 Isobutyl alcohol	43	3.944	3.944	(0.947)	122235	50.0000	50.4(Q)	
*	45 Fluorobenzene (IS)	96	4.163	4.163	(1.000)	504828	50.0000		
	46 Trichloroethene	95	4.612	4.612	(1.108)	124842	50.0000	48.8	
	47 Methylcyclohexane	55	4.884	4.884	(1.173)	188862	50.0000	50.3	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	112111	50.0000	46.9	
	49 Dibromomethane	93	5.018	5.018	(1.205)	50797	50.0000	46.7	
	50 1,4-Dioxane	88	5.029	5.029	(1.208)	14637	1000.00	983	
	51 Methyl methacrylate	69	5.039	5.039	(1.210)	55100	50.0000	51.6	
	52 Bromodichloromethane	83	5.242	5.242	(1.259)	134786	50.0000	48.2	
	53 2-Chloroethyl vinyl ether	63	5.595	5.595	(0.762)	85654	100.000	112	
	54 cis-1,3-Dichloropropene	75	5.744	5.744	(0.782)	147521	50.0000	53.9	
	55 4-Methyl-2-Pentanone	43	5.915	5.915	(0.806)	412502	250.000	286	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	381200	50.0000	49.8	
	57 Toluene	91	6.091	6.091	(0.830)	445047	50.0000	45.4	
	58 trans-1,3-Dichloropropene	75	6.374	6.374	(0.868)	109099	50.0000	56.3	
	59 Ethyl Methacrylate	69	6.460	6.460	(0.880)	92269	50.0000	54.9	
	60 1,1,2-Trichloroethane	83	6.561	6.561	(0.894)	56648	50.0000	48.9	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	106975	50.0000	54.9	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	119299	50.0000	49.0	
	63 2-Hexanone	43	6.775	6.775	(0.923)	249339	250.000	285	
	64 Dibromochloromethane	129	6.887	6.887	(0.938)	74158	50.0000	56.2	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	59187	50.0000	52.0	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	222665	50.0000		
	67 Chlorobenzene	112	7.368	7.368	(1.004)	218127	50.0000	48.2	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	77004	50.0000	55.6	
	69 Ethylbenzene	106	7.448	7.448	(1.015)	128988	50.0000	50.2	
	70 m&p-Xylene	106	7.544	7.544	(1.028)	310402	100.000	99.2	
	71 o-Xylene	106	7.806	7.806	(1.063)	138009	50.0000	49.8	
	72 Styrene	104	7.822	7.822	(1.065)	222115	50.0000	49.1	
	73 Bromoform	173	7.945	7.945	(0.899)	32740	50.0000	61.0(M)	NI
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	357593	50.0000	49.7	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	85975	50.0000	46.7	
	76 Bromobenzene	77	8.244	8.244	(1.123)	110039	50.0000	41.7	
	77 1,1,2,2-Tetrachloroethane	83	8.255	8.255	(0.934)	55248	50.0000	44.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.127)	17140	50.0000	51.3(Q)	
79	1,2,3-Trichloropropane	110	8.281	8.281	(0.937)	16751	50.0000	48.7(Q)	
80	n-Propylbenzene	91	8.313	8.313	(0.940)	402533	50.0000	47.8	
81	2-Chlorotoluene	91	8.361	8.361	(0.946)	210522	50.0000	45.7	
82	1,3,5-Trimethylbenzene	105	8.420	8.420	(0.952)	254315	50.0000	49.0	
83	4-Chlorotoluene	126	8.436	8.436	(0.954)	74370	50.0000	49.7	
84	tert-Butylbenzene	119	8.602	8.602	(0.973)	287659	50.0000	50.7	
85	1,2,4-Trimethylbenzene	105	8.634	8.634	(0.976)	236897	50.0000	46.6	
86	sec-Butylbenzene	105	8.730	8.730	(0.987)	321597	50.0000	47.3	
87	1,3-Dichlorobenzene	146	8.794	8.794	(0.995)	118556	50.0000	46.4	
88	p-Isopropyltoluene	119	8.815	8.815	(0.997)	268451	50.0000	48.6	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	78181	50.0000		
90	1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	121936	50.0000	46.3	
91	n-Butylbenzene	91	9.029	9.029	(1.021)	248210	50.0000	46.0	
92	1,2-Dichlorobenzene	146	9.045	9.045	(1.023)	103161	50.0000	45.1	
93	1,2,4-Trichlorobenzene	180	9.862	9.862	(1.115)	65107	50.0000	46.4	
94	1,2-Dibromo-3-chloropropane	155	9.456	9.456	(1.069)	5507	50.0000	53.7	
95	Hexachlorobutadiene	225	9.926	9.926	(1.123)	38419	50.0000	47.4	
96	Naphthalene	128	10.001	10.001	(1.131)	138523	50.0000	45.9	
97	1,2,3-Trichlorobenzene	180	10.119	10.119	(1.144)	60304	50.0000	46.0	
98	2,methyl-naphthalene	142	10.631	10.631	(1.202)	95594	50.0000	48.9	
99	1-Methylnaphthalene	142	10.749	10.749	(1.216)	85462	50.0000	50.0	

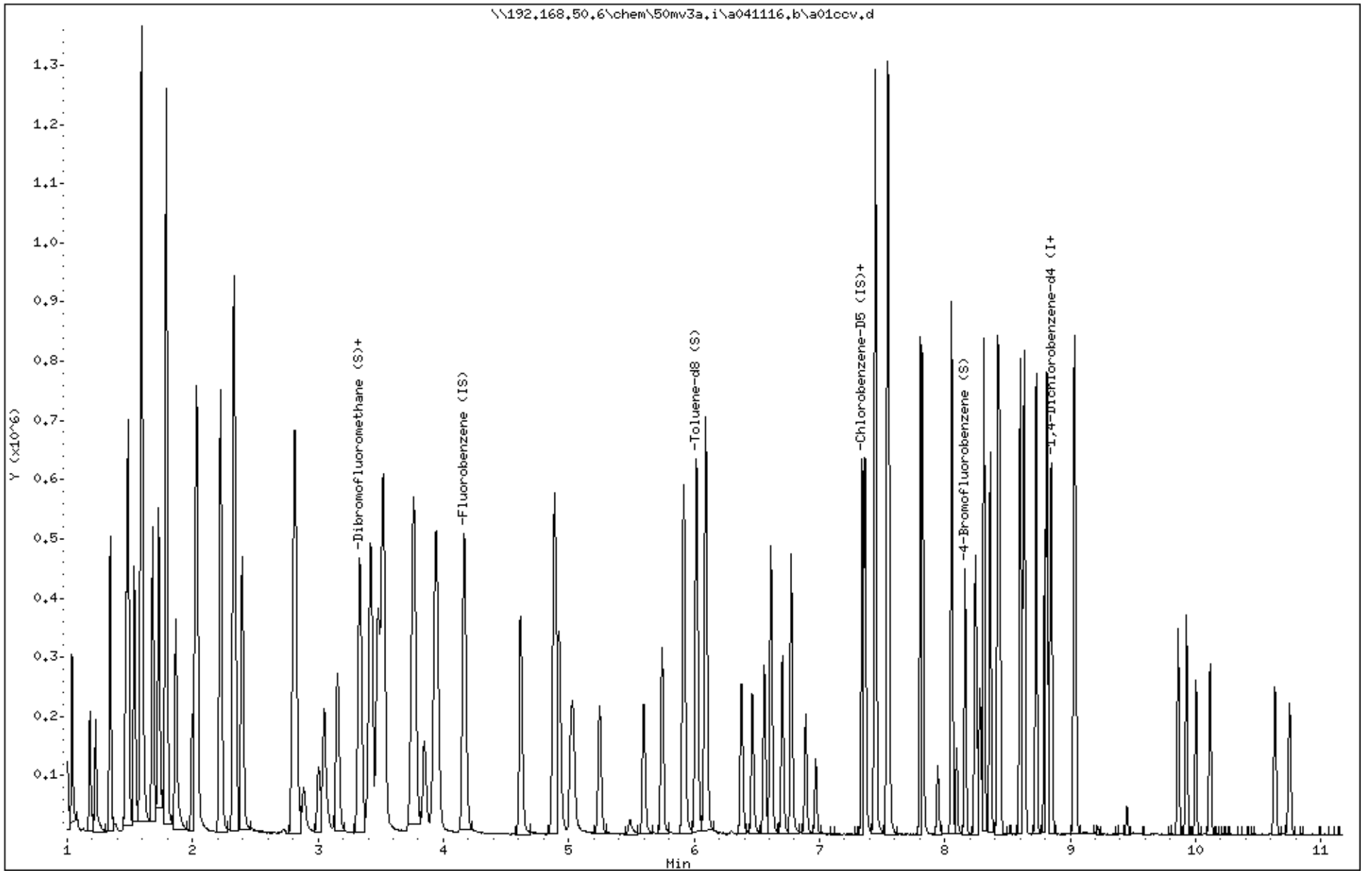
QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Review Codes Legend

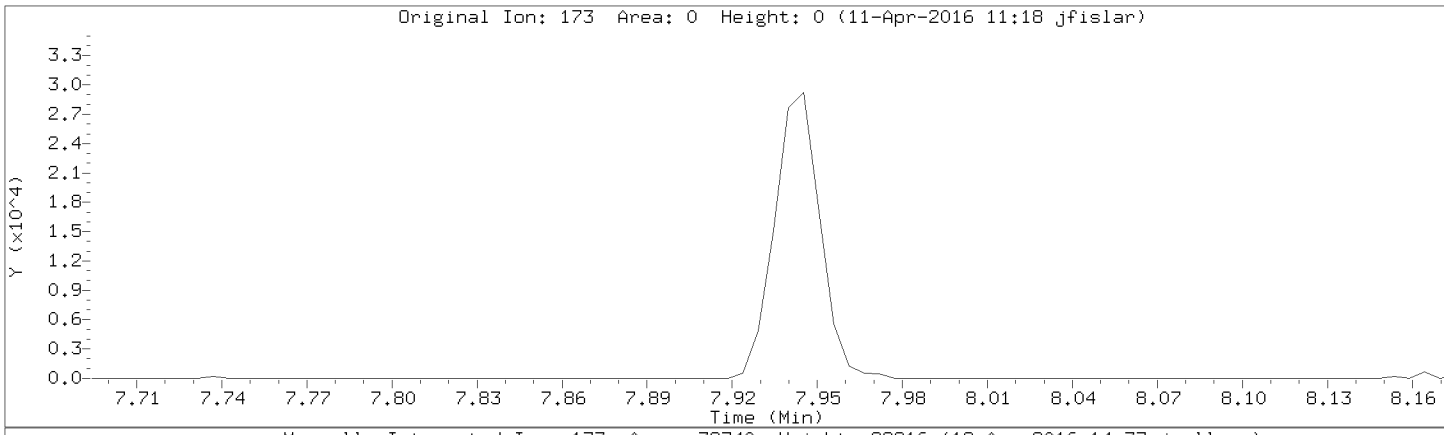
:
NI: Indicates that the peak was not integrated at all by the computer software.

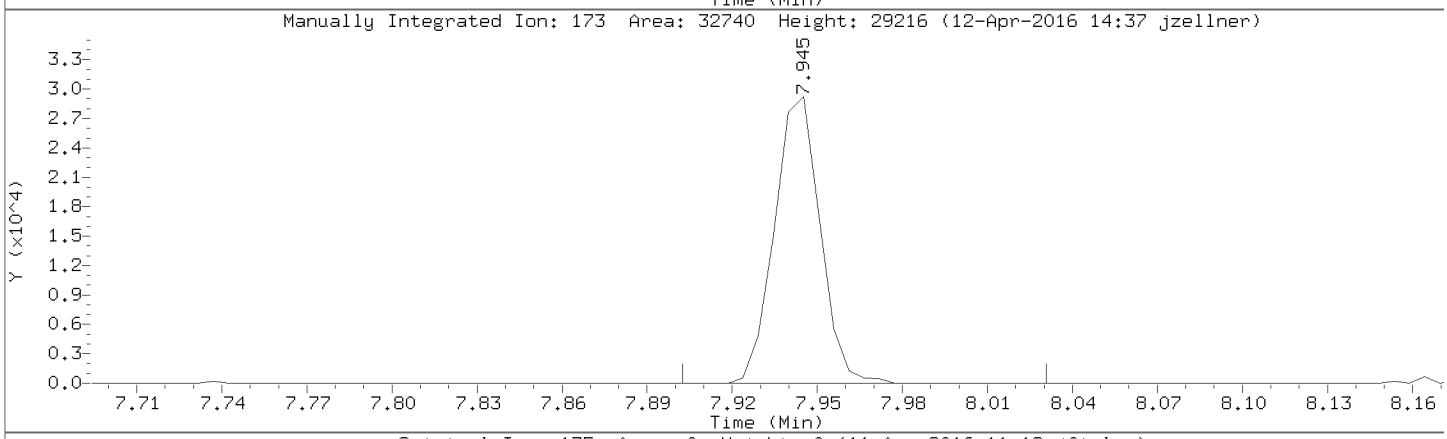
Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a01ccv.d
Date : 11-APR-2016 10:38
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CCV,118684:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

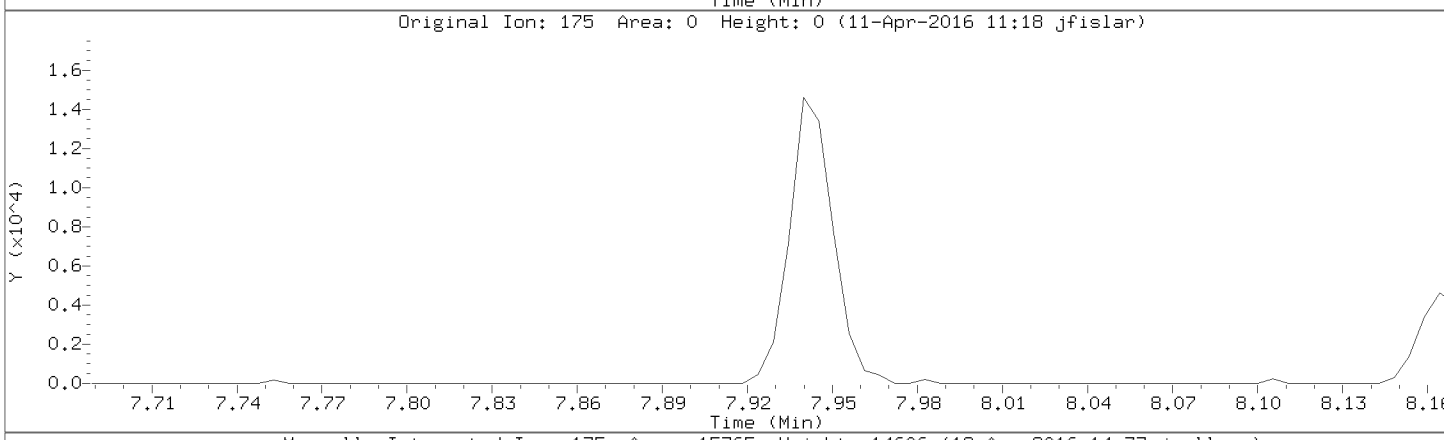


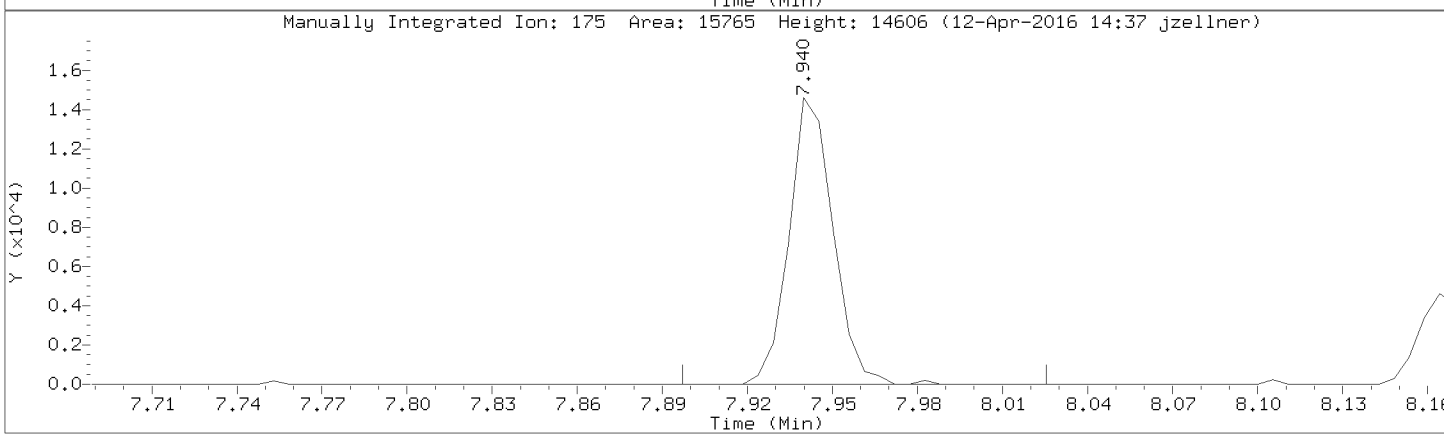
Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a01ccv.d
Injection Date: 11-APR-2016 10:38
Instrument: 50mv3a.i
Lab Sample ID: 8260-CCV,118684:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

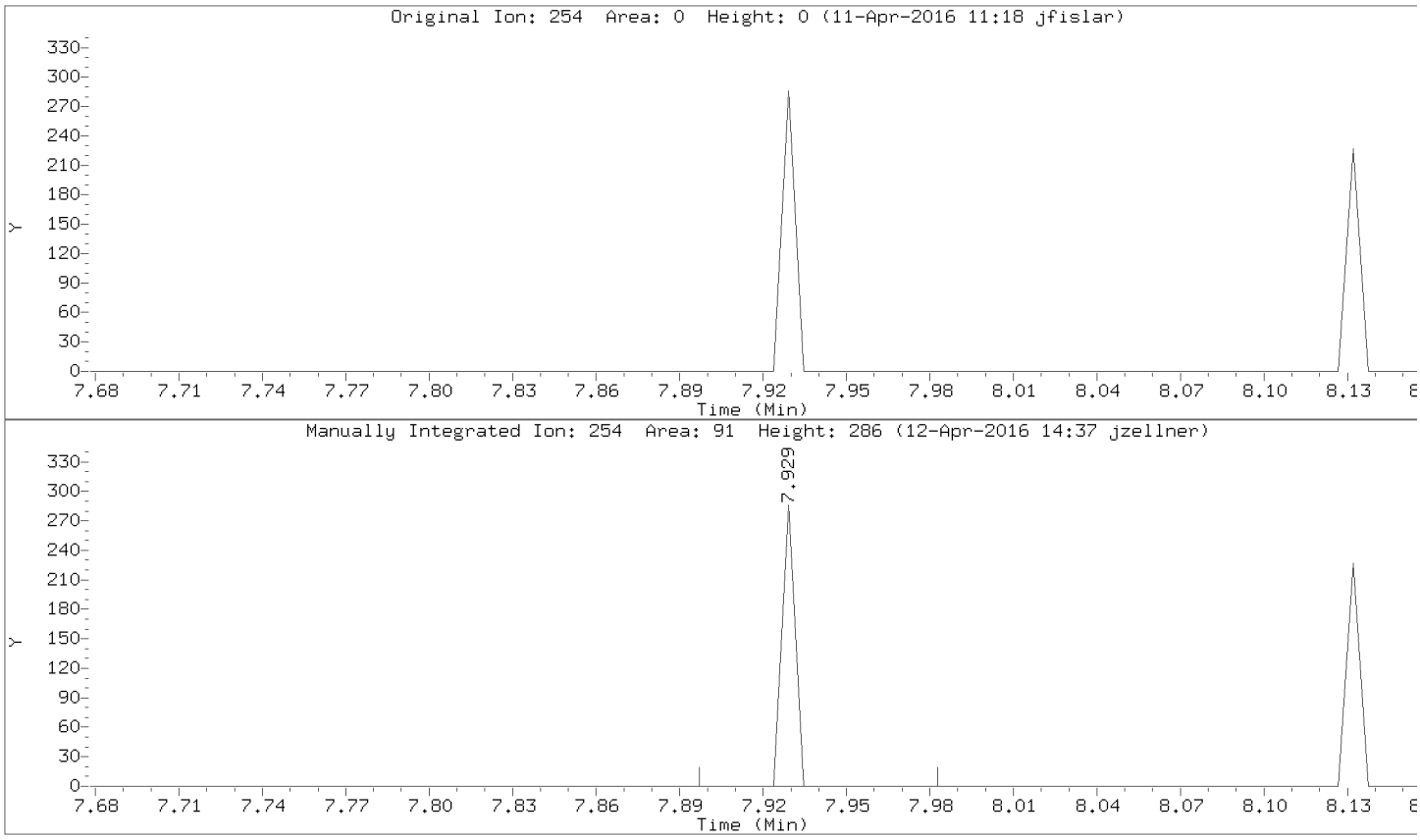








Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a01ccv.d
Injection Date: 11-APR-2016 10:38
Instrument: 50mv3a.i
Lab Sample ID: 8260-CCV,118684:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw-ccv.d
Lab Smp Id: 8260-CCV,118684:0
Inj Date : 11-APR-2016 23:30
Operator : jlz   Inst ID: 50mv3a.i
Smp Info : 8260-ccv,118684:0
Misc Info : 88307
Comment   :
Method   : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21   Cal File: a11cal8.d
Als bottle: 51   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.906	0.905	(0.218)	144053	50.0000	43.1	
2	Chloromethane	50	0.991	0.991	(0.238)	173789	50.0000	38.2	
3	Vinyl Chloride	62	1.039	1.033	(0.250)	201178	50.0000	44.8	
4	Bromomethane	94	1.183	1.183	(0.284)	95646	50.0000	42.7	
5	Chloroethane	64	1.226	1.226	(0.295)	108021	50.0000	42.1	
6	Trichlorofluoromethane	101	1.344	1.343	(0.323)	264218	50.0000	47.0	
7	Diethyl ether	74	1.467	1.466	(0.352)	82711	50.0000	45.3	
8	1,2-dichlorotrifluoroethane	67	1.483	1.482	(0.356)	184061	50.0000	43.5	
9	Acrolein	56	1.536	1.535	(0.369)	357016	1000.00	900	
10	1,1,2trichlorotrifluoroethane	101	1.589	1.589	(0.382)	173856	50.0000	46.9	
11	1,1-Dichloroethene	96	1.595	1.594	(0.383)	146705	50.0000	46.2	
12	Acetone	43	1.605	1.605	(0.386)	145333	250.000	217	
13	Iodomethane	142	1.680	1.680	(0.404)	376717	100.000	112	
14	Carbon Disulfide	76	1.728	1.728	(0.415)	438933	50.0000	41.8	
15	Methyl Acetate	43	1.776	1.770	(0.427)	76270	50.0000	42.6	
16	allyl chloride	41	1.792	1.786	(0.431)	516192	100.000	83.0	
17	Acetonitrile	39	1.787	1.786	(0.429)	355456	50.0000	41.4	
18	Methylene Chloride	84	1.867	1.861	(0.448)	116442	50.0000	43.0	
19	Acrylonitrile	53	2.001	2.000	(0.481)	122444	200.000	192	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	307169	50.0000	49.4	
21	tert-Butyl Alcohol	59	1.904	1.904	(0.457)	12707	100.000	89.1	
22	1,2-Dichloroethene (trans)	96	2.038	2.038	(0.490)	133087	50.0000	45.6	
23	n-Hexane	57	2.225	2.219	(0.534)	256421	50.0000	41.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.332	2.326	(0.560)	1027483	200.000	221	
	25 1,1-Dichloroethane	63	2.342	2.342	(0.563)	240770	50.0000	46.1	
	26 Chloroprene	53	2.396	2.395	(0.575)	245450	50.0000	51.0	
	27 2-Butanone	43	2.796	2.796	(0.672)	248140	250.000	251	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	142395	50.0000	49.1	
	29 2,2-Dichloropropane	77	2.823	2.823	(0.678)	153746	50.0000	47.7	
	30 Propionitrile	54	2.866	2.860	(0.688)	8685	50.0000	39.0	
	31 Methacrylonitrile	41	2.999	3.004	(0.720)	286644	50.0000	209	
	32 Bromochloromethane	49	3.047	3.047	(0.732)	99110	50.0000	47.8	
	33 Tetrahydrofuran	42	3.069	3.063	(0.737)	28184	50.0000	45.4	
	34 Chloroform	83	3.160	3.159	(0.759)	217477	50.0000	47.2	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	120945	50.0000	50.8	
	36 1,1,1-Trichloroethane	97	3.336	3.330	(0.801)	199753	50.0000	50.2	
	37 Cyclohexane	56	3.421	3.421	(0.822)	251200	50.0000	46.0	
	38 n-Butyl chloride	56	3.480	3.480	(0.836)	305888	50.0000	49.6	
	39 Carbon Tetrachloride	117	3.517	3.517	(0.845)	178560	50.0000	53.3	
	40 1,1-Dichloropropene	75	3.523	3.522	(0.846)	185664	50.0000	47.6	
	41 Benzene	78	3.769	3.763	(0.905)	514694	50.0000	46.9	
	42 1,2-Dichloroethane	62	3.849	3.853	(0.924)	153661	50.0000	51.2	
	43 2,2,4-Trimethylpentane	57	3.945	3.944	(0.947)	626836	50.0000	51.6	
	44 Isobutyl alcohol	43	3.881	3.944	(0.932)	1192010	50.0000	469	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	528808	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.109)	125347	50.0000	46.8	
	47 Methylcyclohexane	55	4.885	4.884	(1.173)	194459	50.0000	49.5	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	117858	50.0000	47.0	
	49 Dibromomethane	93	5.018	5.018	(1.205)	55111	50.0000	48.3	
	50 1,4-Dioxane	88	5.034	5.029	(1.209)	14196	1000.00	910	
	51 Methyl methacrylate	69	5.040	5.039	(1.210)	59521	50.0000	53.2	
	52 Bromodichloromethane	83	5.248	5.242	(1.260)	138067	50.0000	47.2	
	53 2-Chloroethyl vinyl ether	63	5.601	5.595	(0.763)	44774	100.000	54.5	
	54 cis-1,3-Dichloropropene	75	5.745	5.744	(0.782)	146764	50.0000	49.7	
	55 4-Methyl-2-Pentanone	43	5.916	5.915	(0.806)	451690	250.000	291	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	416043	50.0000	50.4	
	57 Toluene	91	6.092	6.091	(0.830)	471146	50.0000	44.5	
	58 trans-1,3-Dichloropropene	75	6.380	6.374	(0.869)	107805	50.0000	51.5	
	59 Ethyl Methacrylate	69	6.460	6.460	(0.880)	427987	50.0000	236	
	60 1,1,2-Trichloroethane	83	6.562	6.561	(0.894)	60202	50.0000	48.1	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	109794	50.0000	52.2	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	124904	50.0000	47.5	
	63 2-Hexanone	43	6.776	6.775	(0.923)	267689	250.000	284	
	64 Dibromochloromethane	129	6.888	6.887	(0.938)	80123	50.0000	56.3	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	66422	50.0000	54.1	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	240263	50.0000		
	67 Chlorobenzene	112	7.363	7.368	(1.003)	233588	50.0000	47.8	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	82899	50.0000	55.5	
	69 Ethylbenzene	106	7.449	7.448	(1.015)	139546	50.0000	50.4	
	70 m&p-Xylene	106	7.545	7.544	(1.028)	331164	100.000	98.1	
	71 o-Xylene	106	7.806	7.806	(1.063)	146349	50.0000	48.9	
	72 Styrene	104	7.822	7.822	(1.065)	236983	50.0000	48.5	
	73 Bromoform	173	7.945	7.945	(0.899)	32571	50.0000	57.6(M)	NI
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	385119	50.0000	49.6	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	88607	50.0000	44.6	
	76 Bromobenzene	77	8.239	8.244	(1.122)	118730	50.0000	41.7	
	77 1,1,2,2-Tetrachloroethane	83	8.255	8.255	(0.934)	61256	50.0000	46.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.127)	66955	50.0000	186	
79	1,2,3-Trichloropropane	110	8.282	8.281	(0.937)	18956	50.0000	52.3	
80	n-Propylbenzene	91	8.308	8.313	(0.940)	438040	50.0000	49.4	
81	2-Chlorotoluene	91	8.362	8.361	(0.946)	218989	50.0000	45.2	
82	1,3,5-Trimethylbenzene	105	8.421	8.420	(0.952)	259162	50.0000	47.4	
83	4-Chlorotoluene	126	8.437	8.436	(0.954)	78088	50.0000	49.5	
84	tert-Butylbenzene	119	8.602	8.602	(0.973)	245180	50.0000	41.0	
85	1,2,4-Trimethylbenzene	105	8.634	8.634	(0.976)	251821	50.0000	47.0	
86	sec-Butylbenzene	105	8.725	8.730	(0.987)	357170	50.0000	49.9	
87	1,3-Dichlorobenzene	146	8.794	8.794	(0.995)	127137	50.0000	47.3	
88	p-Isopropyltoluene	119	8.810	8.815	(0.996)	272703	50.0000	46.9	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.842	(1.000)	82375	50.0000		
90	1,4-Dichlorobenzene	146	8.853	8.853	(1.001)	124822	50.0000	45.0	
91	n-Butylbenzene	91	9.029	9.029	(1.021)	246283	50.0000	43.4	
92	1,2-Dichlorobenzene	146	9.045	9.045	(1.023)	108588	50.0000	45.0	
93	1,2,4-Trichlorobenzene	180	9.857	9.862	(1.115)	61865	50.0000	41.8	
94	1,2-Dibromo-3-chloropropane	155	9.457	9.456	(1.069)	5658	50.0000	52.4	
95	Hexachlorobutadiene	225	9.927	9.926	(1.123)	37217	50.0000	43.6	
96	Naphthalene	128	9.996	10.001	(1.130)	144691	50.0000	45.5	
97	1,2,3-Trichlorobenzene	180	10.114	10.119	(1.144)	57936	50.0000	41.9	
98	2,methyl-naphthalene	142	10.632	10.631	(1.202)	82576	50.0000	40.1	
99	1-Methylnaphthalene	142	10.744	10.749	(1.215)	87850	50.0000	48.7	

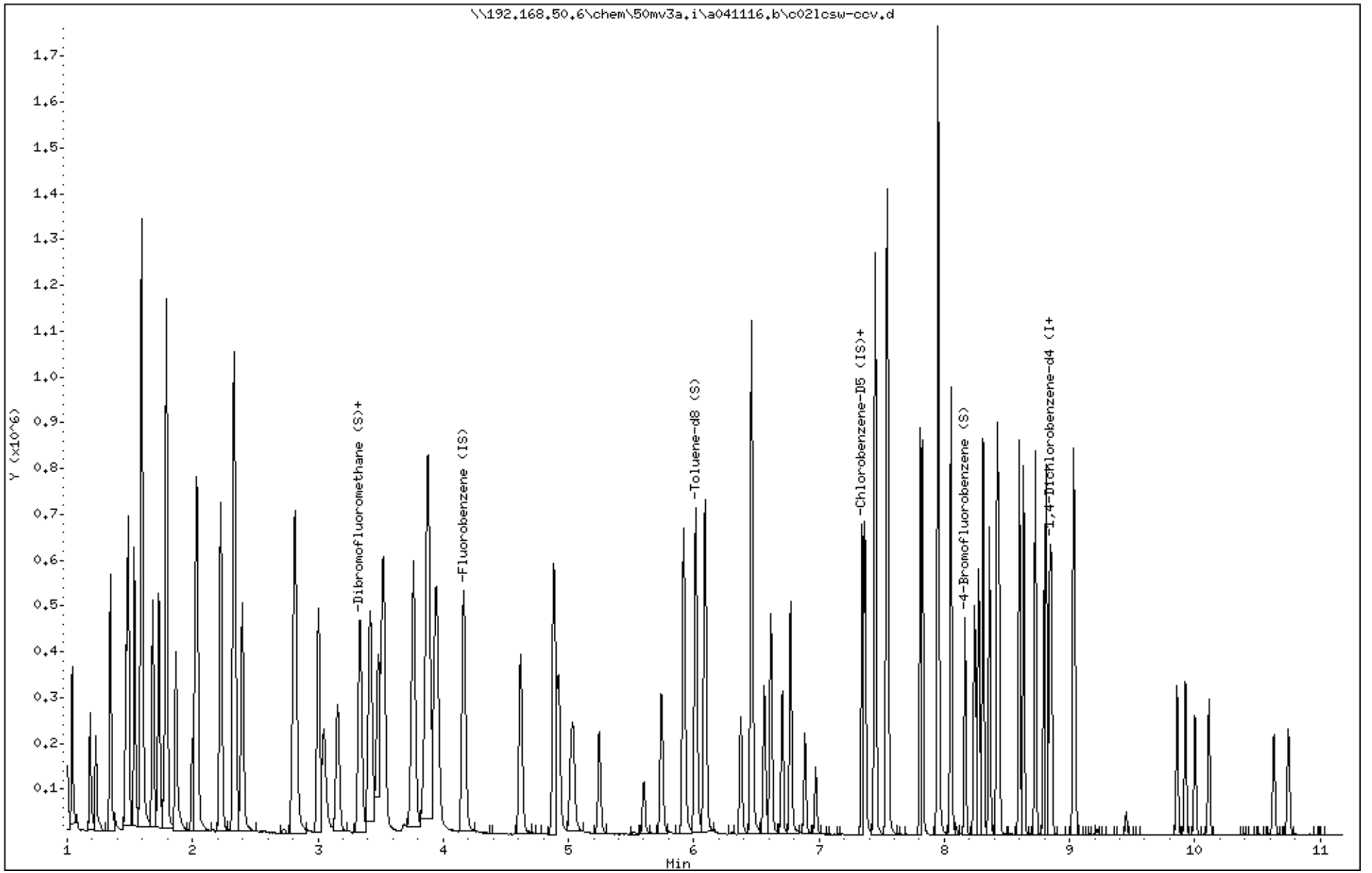
QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

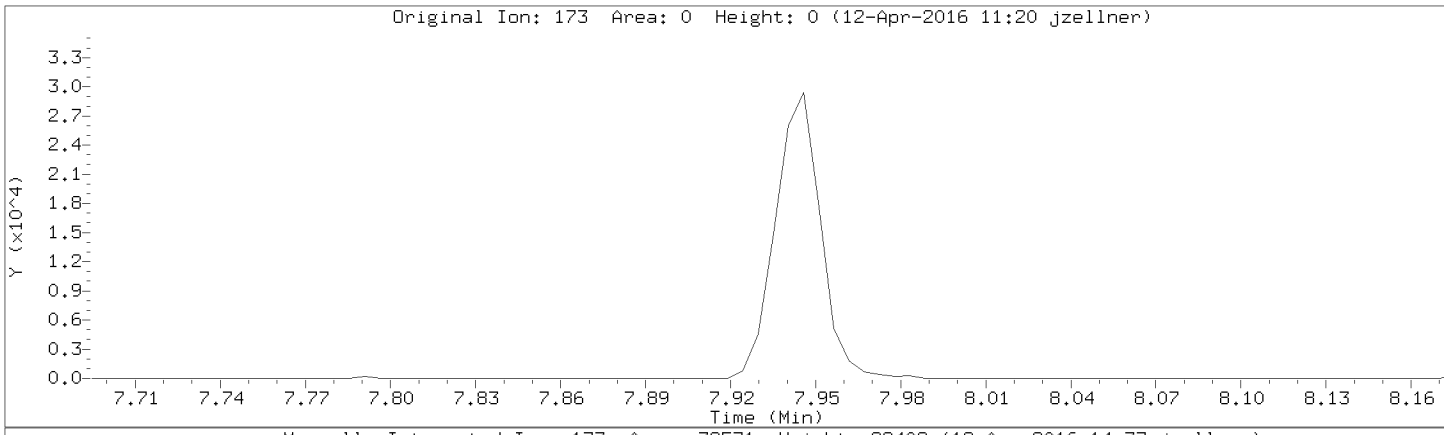
:
NI: Indicates that the peak was not integrated at all by the computer software.

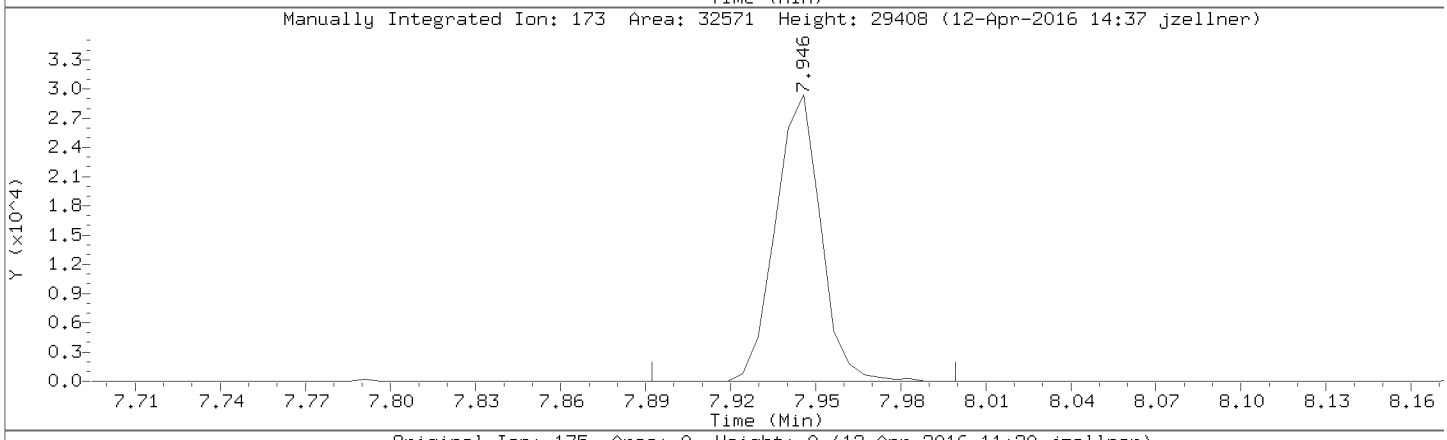
Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw-ccv.d
Date : 11-APR-2016 23:30
Client ID:
Instrument: 50mv3a.i
Sample Info: 8260-CCV,118684:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

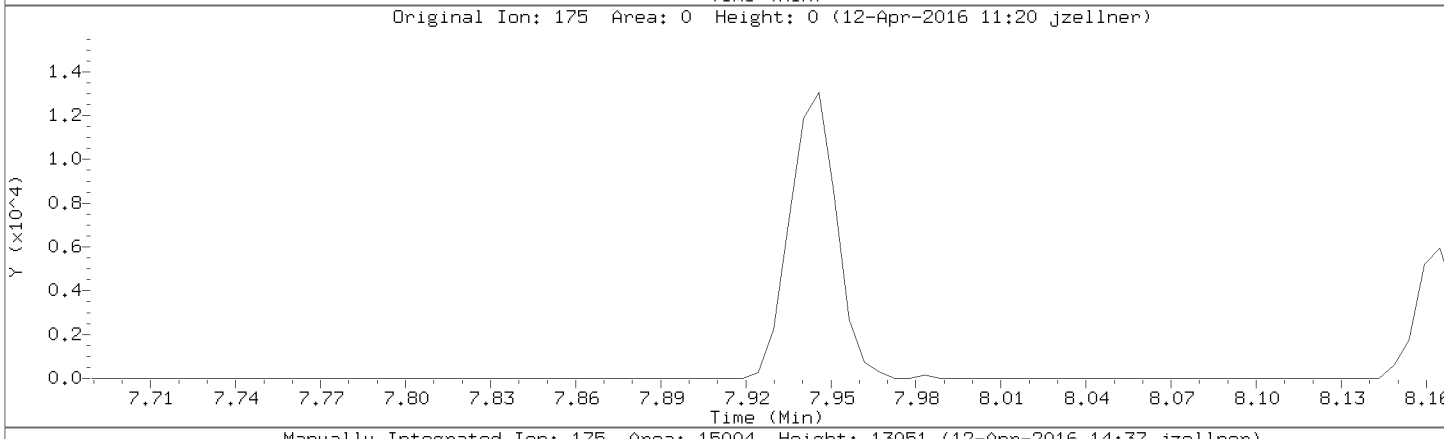


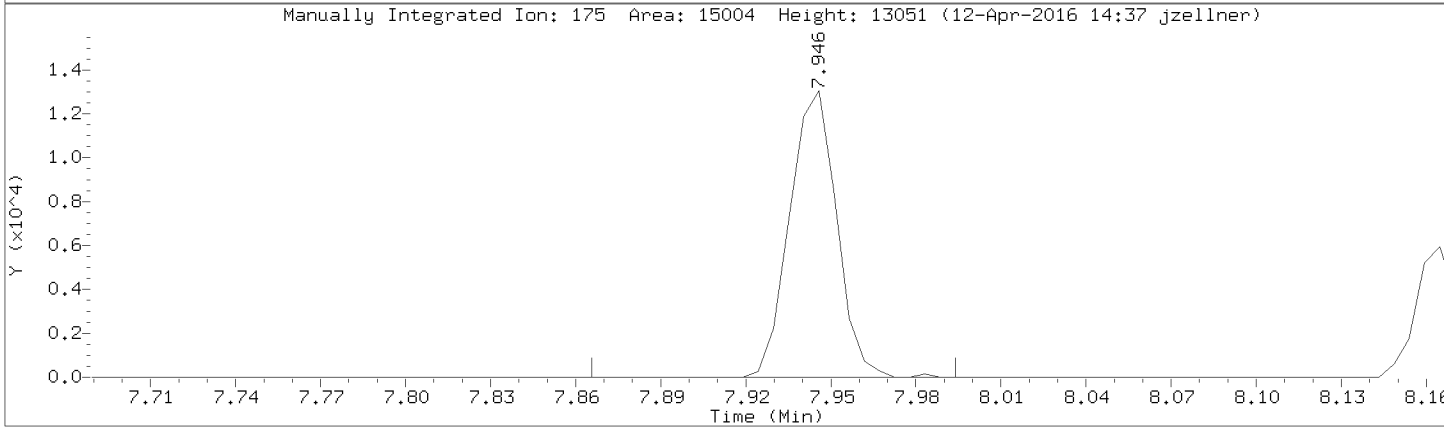
Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c02lcsw-ccv.d
Injection Date: 11-APR-2016 23:30
Instrument: 50mv3a.i
Lab Sample ID: 8260-CCV,118684:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

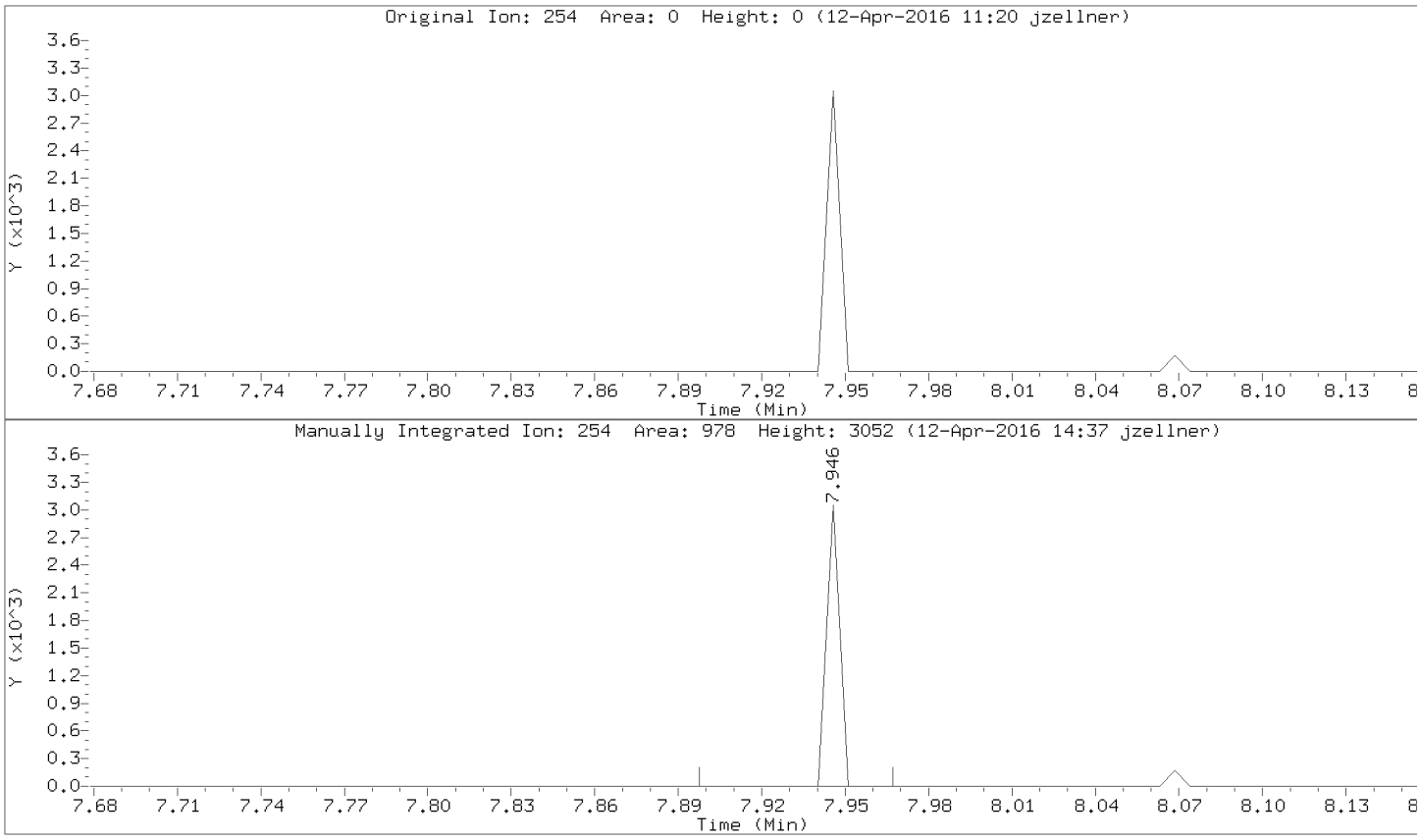








Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c02lcsw-ccv.d
Injection Date: 11-APR-2016 23:30
Instrument: 50mv3a.i
Lab Sample ID: 8260-CCV,118684:0



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041216.b\g01ccv.d
Lab Smp Id: 8260-CCV,119110:0
Inj Date : 13-APR-2016 00:12
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 8260-ccv,119110:0
Misc Info : 88307
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041216.b\-a8260_a_c.m
Meth Date : 13-Apr-2016 10:48 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 45 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

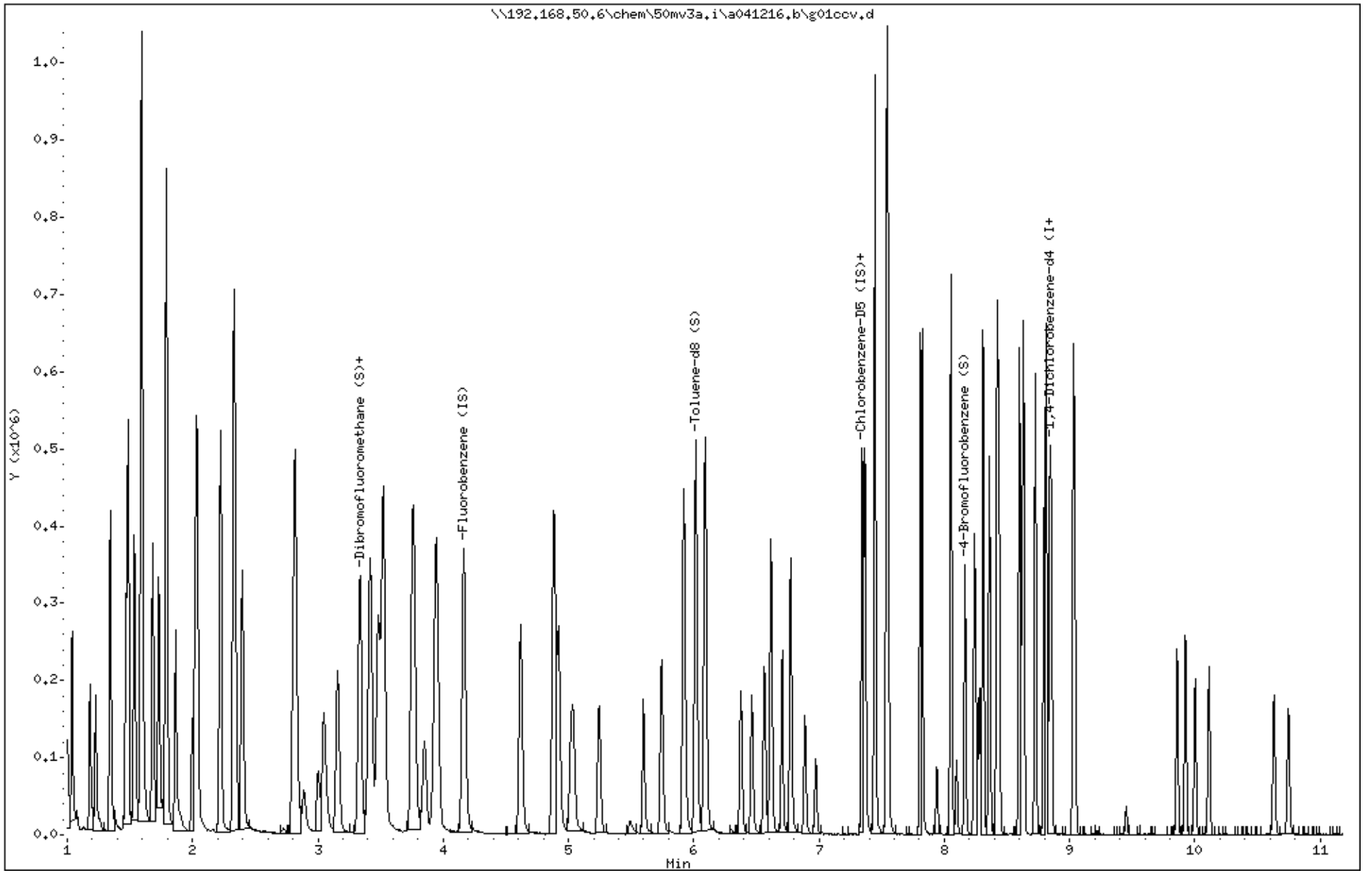
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.905	0.906	(0.217)	104402	50.0000	46.0	
2	Chloromethane	50	0.996	0.991	(0.239)	137791	50.0000	44.6	
3	Vinyl Chloride	62	1.039	1.034	(0.249)	146945	50.0000	48.1	
4	Bromomethane	94	1.183	1.184	(0.284)	75593	50.0000	49.7	
5	Chloroethane	64	1.226	1.226	(0.294)	83950	50.0000	48.2	
6	Trichlorofluoromethane	101	1.343	1.344	(0.322)	202876	50.0000	53.1	
7	Diethyl ether	74	1.466	1.467	(0.352)	63130	50.0000	50.9	
8	1,2-dichlorotrifluoroethane	67	1.482	1.483	(0.356)	144638	50.0000	50.4	
9	Acrolein	56	1.535	1.536	(0.368)	209822	1000.00	778	
10	1,1,2trichlorotrifluoroethane	101	1.589	1.589	(0.381)	133182	50.0000	52.8	
11	1,1-Dichloroethene	96	1.594	1.595	(0.382)	112210	50.0000	52.0	
12	Acetone	43	1.605	1.605	(0.385)	113450	250.000	250	
13	Iodomethane	142	1.680	1.680	(0.403)	265553	100.000	116	
14	Carbon Disulfide	76	1.728	1.728	(0.415)	277957	50.0000	38.9	
15	Methyl Acetate	43	1.776	1.771	(0.426)	49369	50.0000	40.6	
16	allyl chloride	41	1.786	1.787	(0.429)	371205	100.000	87.9	
17	Acetonitrile	39	1.786	1.787	(0.429)	259494	50.0000	44.4	
18	Methylene Chloride	84	1.867	1.862	(0.448)	81204	50.0000	44.2	
19	Acrylonitrile	53	2.000	1.995	(0.480)	87520	200.000	202	
20	Methyl-tert-butyl ether	73	2.027	2.027	(0.486)	200668	50.0000	47.5	
21	tert-Butyl Alcohol	59	1.904	1.910	(0.457)	7930	100.000	81.9	
22	1,2-Dichloroethene (trans)	96	2.037	2.038	(0.489)	89618	50.0000	45.2	
23	n-Hexane	57	2.219	2.220	(0.532)	177972	50.0000	42.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
	24 Vinyl Acetate	43	2.331	2.326	(0.559)	659817	200.000	209	
	25 1,1-Dichloroethane	63	2.342	2.337	(0.562)	169848	50.0000	47.9	
	26 Chloroprene	53	2.395	2.396	(0.575)	164109	50.0000	50.2	
	27 2-Butanone	43	2.796	2.797	(0.671)	173754	250.000	259	
	28 1,2-Dichloroethene (cis)	96	2.817	2.813	(0.676)	96747	50.0000	49.2	
	29 2,2-Dichloropropane	77	2.823	2.818	(0.677)	99773	50.0000	45.6	
	30 Propionitrile	54	2.860	2.861	(0.686)	7119	50.0000	47.1	
	31 Methacrylonitrile	41	3.004	2.999	(0.721)	56910	50.0000	61.1	
	32 Bromochloromethane	49	3.047	3.048	(0.731)	73378	50.0000	52.0	
	33 Tetrahydrofuran	42	3.068	3.064	(0.736)	19185	50.0000	45.5	
	34 Chloroform	83	3.159	3.154	(0.758)	157545	50.0000	50.3	
$	35 Dibromofluoromethane (S)	113	3.330	3.331	(0.799)	84413	50.0000	52.2	
	36 1,1,1-Trichloroethane	97	3.335	3.336	(0.800)	143431	50.0000	53.0	
	37 Cyclohexane	56	3.415	3.421	(0.819)	176160	50.0000	47.5	
	38 n-Butyl chloride	56	3.480	3.480	(0.835)	219762	50.0000	52.5	
	39 Carbon Tetrachloride	117	3.522	3.518	(0.845)	123974	50.0000	54.5	
	40 1,1-Dichloropropene	75	3.522	3.523	(0.845)	133309	50.0000	50.4	
	41 Benzene	78	3.763	3.763	(0.903)	374368	50.0000	50.3	
	42 1,2-Dichloroethane	62	3.853	3.854	(0.924)	109017	50.0000	53.4	
	43 2,2,4-Trimethylpentane	57	3.944	3.940	(0.946)	431037	50.0000	52.2	
	44 Isobutyl alcohol	43	3.944	3.945	(0.946)	89295	50.0000	51.7	
*	45 Fluorobenzene (IS)	96	4.169	4.164	(1.000)	359242	50.0000		
	46 Trichloroethene	95	4.617	4.618	(1.108)	88252	50.0000	48.5	
	47 Methylcyclohexane	55	4.884	4.885	(1.172)	134997	50.0000	50.5	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.181)	83789	50.0000	49.2	
	49 Dibromomethane	93	5.018	5.018	(1.204)	40239	50.0000	52.0	
	50 1,4-Dioxane	88	5.028	5.029	(1.206)	9473	1000.00	894	
	51 Methyl methacrylate	69	5.039	5.034	(1.209)	40339	50.0000	53.1	
	52 Bromodichloromethane	83	5.247	5.243	(1.259)	102917	50.0000	51.8	
	53 2-Chloroethyl vinyl ether	63	5.600	5.595	(0.763)	63734	100.000	105	
	54 cis-1,3-Dichloropropene	75	5.744	5.739	(0.782)	105527	50.0000	48.6	
	55 4-Methyl-2-Pentanone	43	5.920	5.916	(0.806)	301244	250.000	264	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	293120	50.0000	48.2	
	57 Toluene	91	6.091	6.092	(0.830)	340135	50.0000	43.7	
	58 trans-1,3-Dichloropropene	75	6.380	6.380	(0.869)	73836	50.0000	48.0	
	59 Ethyl Methacrylate	69	6.465	6.460	(0.881)	66107	50.0000	49.5	
	60 1,1,2-Trichloroethane	83	6.561	6.562	(0.894)	43662	50.0000	47.4	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	80939	50.0000	52.3	
	62 1,3-Dichloropropane	76	6.706	6.706	(0.913)	94285	50.0000	48.7	
	63 2-Hexanone	43	6.775	6.776	(0.923)	182766	250.000	263	
	64 Dibromochloromethane	129	6.887	6.888	(0.938)	55762	50.0000	53.2	
	65 1,2-Dibromoethane	107	6.973	6.973	(0.950)	47377	50.0000	52.4	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.342	(1.000)	176797	50.0000		
	67 Chlorobenzene	112	7.362	7.363	(1.003)	169136	50.0000	47.0	
	68 1,1,1,2-Tetrachloroethane	131	7.443	7.443	(1.014)	60044	50.0000	54.6	
	69 Ethylbenzene	106	7.448	7.449	(1.015)	100440	50.0000	49.3	
	70 m&p-Xylene	106	7.549	7.545	(1.028)	241997	100.000	97.4	
	71 o-Xylene	106	7.806	7.806	(1.063)	107047	50.0000	48.6	
	72 Styrene	104	7.822	7.822	(1.065)	176391	50.0000	49.1	
	73 Bromoform	173	7.945	7.940	(0.899)	24567	50.0000	58.7	
	74 Isopropylbenzene	105	8.051	8.052	(1.097)	274900	50.0000	48.2	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	65485	50.0000	44.8	
	76 Bromobenzene	77	8.244	8.244	(1.123)	89802	50.0000	42.9	
	77 1,1,2,2-Tetrachloroethane	83	8.254	8.255	(0.934)	44613	50.0000	45.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
78	trans-1,4-Dichloro-2-butene	53	8.276	8.276	(1.127)	12633	50.0000	47.6	
79	1,2,3-Trichloropropane	110	8.281	8.282	(0.937)	14306	50.0000	53.4	
80	n-Propylbenzene	91	8.308	8.308	(0.940)	310350	50.0000	47.3	
81	2-Chlorotoluene	91	8.361	8.362	(0.946)	162846	50.0000	45.4	
82	1,3,5-Trimethylbenzene	105	8.420	8.421	(0.953)	196594	50.0000	48.7	
83	4-Chlorotoluene	126	8.436	8.437	(0.955)	57446	50.0000	49.3	
84	tert-Butylbenzene	119	8.602	8.602	(0.973)	223183	50.0000	50.5	
85	1,2,4-Trimethylbenzene	105	8.634	8.634	(0.977)	189518	50.0000	47.8	
86	sec-Butylbenzene	105	8.724	8.725	(0.987)	250924	50.0000	47.4	
87	1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	94237	50.0000	47.4	
88	p-Isopropyltoluene	119	8.810	8.811	(0.997)	210351	50.0000	48.9	
* 89	1,4-Dichlorobenzene-d4 (IS)	152	8.837	8.843	(1.000)	60914	50.0000		
90	1,4-Dichlorobenzene	146	8.853	8.853	(1.002)	92251	50.0000	45.0	
91	n-Butylbenzene	91	9.029	9.030	(1.022)	185264	50.0000	44.1	
92	1,2-Dichlorobenzene	146	9.045	9.046	(1.024)	85039	50.0000	47.7	
93	1,2,4-Trichlorobenzene	180	9.857	9.857	(1.115)	45496	50.0000	41.6	
94	1,2-Dibromo-3-chloropropane	155	9.451	9.451	(1.069)	3988	50.0000	49.9	
95	Hexachlorobutadiene	225	9.926	9.927	(1.123)	28382	50.0000	45.0	
96	Naphthalene	128	10.001	10.002	(1.132)	106323	50.0000	45.2	
97	1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	42813	50.0000	41.9	
98	2,methyl-naphthalene	142	10.631	10.632	(1.203)	68032	50.0000	44.6	
99	1-Methylnaphthalene	142	10.743	10.744	(1.216)	59297	50.0000	44.5	

Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g01ccv.d
Date : 13-APR-2016 00:12
Client ID:
Sample Info: 8260-CCV,119110:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b/g01ccv.d
Injection Date: 13-APR-2016 00:12
Instrument: 50mv3a.i
Lab Sample ID: 8260-CCV,119110:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d
Lab Smp Id: 8260-ICV,117894:0
Inj Date : 25-MAR-2016 20:42
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 8260-icv,117894:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b032516cal.b\-b8260_a_c.m
Meth Date : 28-Mar-2016 14:05 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 28 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 50-VOA-JLF

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
1 Dichlorodifluoromethane	85	0.913	0.917	(0.219)	162661	47.0948	47.1	
2 Chloromethane	50	0.999	0.997	(0.239)	229300	43.0908	43.1	
3 Vinyl Chloride	62	1.041	1.045	(0.250)	213034	46.5896	46.6	
4 Bromomethane	94	1.191	1.189	(0.286)	116706	52.8059	52.8	
5 Chloroethane	64	1.234	1.237	(0.296)	121357	44.0228	44.0	
6 Trichlorofluoromethane	101	1.351	1.350	(0.324)	251994	47.9613	48.0	
7 Diethyl ether	74	1.474	1.472	(0.353)	76620	49.4470	49.4	
8 1,2-dichlorotrifluoroethane	67	1.490	1.488	(0.357)	187280	48.1036	48.1	
9 Acrolein	56	1.543	1.542	(0.370)	388983	1055.46	1060	
10 1,1,2trichlorotrifluoroethane	101	1.597	1.601	(0.383)	166100	49.2750	49.3	
11 1,1-Dichloroethene	96	1.602	1.601	(0.384)	139117	48.6356	48.6	
12 Acetone	43	1.613	1.611	(0.387)	143999	224.581	224	
13 Iodomethane	142	1.688	1.686	(0.405)	323535	101.535	102	
14 Carbon Disulfide	76	1.794	1.798	(0.430)	171342	49.8489	49.8	
15 Methyl Acetate	43	1.778	1.782	(0.426)	69216	47.9311	47.9	
16 allyl chloride	41	1.794	1.798	(0.430)	506095	105.290	105	
17 Acetonitrile	39	1.794	1.798	(0.430)	345445	51.5120	51.5	
18 Methylene Chloride	84	1.869	1.873	(0.448)	119311	46.9591	47.0	
19 tert-Butyl Alcohol	59	1.912	1.916	(0.458)	12683	99.9091	99.9(Q)	
20 Acrylonitrile	53	2.003	2.006	(0.480)	116100	189.439	189	
21 Methyl-tert-butyl ether	73	2.035	2.033	(0.488)	265169	51.5061	51.5	
22 1,2-Dichloroethene (trans)	96	2.045	2.044	(0.490)	129596	50.8015	50.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	23 n-Hexane	57	2.227	2.231	(0.534)	237352	44.6604	44.7	
	24 Vinyl Acetate	43	2.339	2.338	(0.561)	862756	209.220	209	
	25 1,1-Dichloroethane	63	2.350	2.348	(0.563)	226946	48.5727	48.6	
	26 Chloroprene	53	2.403	2.402	(0.576)	228993	54.0961	54.1	
	27 2-Butanone	43	2.804	2.808	(0.672)	208668	248.417	248	
	28 1,2-Dichloroethene (cis)	96	2.825	2.824	(0.677)	131655	52.0546	52.0	
	29 2,2-Dichloropropane	77	2.831	2.829	(0.679)	157613	53.7950	53.8	
	30 Propionitrile	54	2.873	2.872	(0.689)	9615	45.9620	46.0	
	31 Methacrylonitrile	41	3.012	3.011	(0.722)	240284	214.334	214	
	32 Bromochloromethane	49	3.055	3.053	(0.732)	91763	49.5219	49.5	
	33 Tetrahydrofuran	42	3.076	3.080	(0.738)	26522	49.8204	49.8	
	34 Chloroform	83	3.162	3.165	(0.758)	203041	49.3401	49.3	
$	35 Dibromofluoromethane (S)	113	3.338	3.342	(0.800)	105002	48.9241	48.9	
	36 1,1,1-Trichloroethane	97	3.338	3.342	(0.800)	180036	50.1357	50.1	
	37 Cyclohexane	56	3.429	3.427	(0.822)	226712	47.6673	47.7	
	151 n-Butyl chloride	56	3.487	3.491	(0.836)	286840	49.8843	49.9	
	38 Carbon Tetrachloride	117	3.525	3.523	(0.845)	154759	51.6746	51.7	
	39 1,1-Dichloropropene	75	3.530	3.534	(0.846)	175937	49.9756	50.0	
	40 Benzene	78	3.776	3.774	(0.905)	484739	49.8011	49.8	
	41 1,2-Dichloroethane	62	3.861	3.860	(0.926)	135219	50.1551	50.2	
	42 Isobutyl alcohol	43	3.888	3.951	(0.932)	963467	430.035	430(Q)	
	43 2,2,4-Trimethylpentane	57	3.952	3.951	(0.948)	563629	52.8650	52.9	
*	44 Fluorobenzene (IS)	96	4.171	4.175	(1.000)	468727	50.0000		
	45 Trichloroethene	95	4.625	4.624	(1.109)	118060	50.4116	50.4	
	46 Methylcyclohexane	55	4.892	4.891	(1.173)	182086	51.7445	51.7	
	47 1,2-Dichloropropane	63	4.930	4.928	(1.182)	112078	49.7610	49.8	
	48 Methyl methacrylate	69	5.047	5.046	(1.210)	51906	53.0208	53.0	
	49 Dibromomethane	93	5.026	5.024	(1.205)	50202	48.0291	48.0	
	50 1,4-Dioxane	88	5.036	5.035	(1.207)	15497	1139.25	1140	
	51 Bromodichloromethane	83	5.250	5.254	(1.259)	124826	48.9188	48.9	
	52 2-Chloroethyl vinyl ether	63	5.603	5.601	(0.763)	48144	53.3064	53.3	
	53 cis-1,3-Dichloropropene	75	5.747	5.745	(0.783)	151208	52.3542	52.4	
	54 4-Methyl-2-Pentanone	43	5.923	5.921	(0.807)	389460	266.192	266	
$	55 Toluene-d8 (S)	98	6.019	6.023	(0.820)	407661	48.8617	48.9	
	56 Toluene	91	6.094	6.092	(0.830)	487428	44.8562	44.8	
	57 trans-1,3-Dichloropropene	75	6.382	6.381	(0.869)	109000	52.5134	52.5	
	58 Ethyl Methacrylate	69	6.468	6.466	(0.881)	408822	231.975	232	
	59 1,1,2-Trichloroethane	83	6.564	6.562	(0.894)	62627	50.8721	50.9	
	60 Tetrachloroethene	166	6.617	6.621	(0.901)	108063	48.6062	48.6	
	61 1,3-Dichloropropane	76	6.708	6.707	(0.913)	129413	48.3201	48.3	
	62 2-Hexanone	43	6.778	6.776	(0.923)	245589	260.213	260	
	63 Dibromochloromethane	129	6.890	6.888	(0.938)	75150	54.1714	54.2	
	64 1,2-Dibromoethane	107	6.975	6.974	(0.950)	64888	49.7081	49.7	
*	65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	258192	50.0000		
	66 Chlorobenzene	112	7.365	7.369	(1.003)	261477	49.1456	49.1	
	67 1,1,1,2-Tetrachloroethane	131	7.445	7.444	(1.014)	79103	50.2183	50.2	
	68 Ethylbenzene	106	7.451	7.449	(1.015)	154787	49.9523	50.0	
	69 m&p-Xylene	106	7.547	7.550	(1.028)	382829	102.040	102	
	70 o-Xylene	106	7.808	7.807	(1.063)	184810	54.3760	54.4	
	71 Styrene	104	7.824	7.823	(1.065)	288842	50.7495	50.7	
	72 Bromoform	173	7.942	7.946	(0.898)	32693	48.6983	48.7	
	73 Isopropylbenzene	105	8.054	8.053	(1.097)	490614	54.0216	54.0	
$	74 4-Bromofluorobenzene (S)	95	8.166	8.165	(1.112)	117233	51.6841	51.7	
	75 Bromobenzene	77	8.241	8.245	(1.122)	155672	46.0173	46.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
76	1,1,2,2-Tetrachloroethane	83	8.257	8.256	(0.934)	78152	47.9634	48.0	
77	trans-1,4-Dichloro-2-butene	53	8.273	8.277	(1.127)	81054	205.284	205(Q)	
78	1,2,3-Trichloropropane	110	8.284	8.282	(0.937)	21919	49.0969	49.1(Q)	
79	n-Propylbenzene	91	8.310	8.314	(0.940)	606268	53.0066	53.0	
80	2-Chlorotoluene	91	8.364	8.362	(0.946)	312874	49.9388	49.9	
81	1,3,5-Trimethylbenzene	105	8.423	8.421	(0.953)	362143	50.0805	50.1	
82	4-Chlorotoluene	126	8.433	8.437	(0.954)	104261	49.1221	49.1	
83	tert-Butylbenzene	119	8.604	8.603	(0.973)	334063	41.7878	41.8	
84	1,2,4-Trimethylbenzene	105	8.636	8.635	(0.977)	359841	48.6994	48.7	
85	sec-Butylbenzene	105	8.727	8.731	(0.987)	529737	55.3665	55.4	
86	1,3-Dichlorobenzene	146	8.797	8.795	(0.995)	178849	48.6311	48.6	
87	p-Isopropyltoluene	119	8.813	8.811	(0.997)	392987	49.4862	49.5	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.843	(1.000)	109484	50.0000		
89	1,4-Dichlorobenzene	146	8.855	8.854	(1.002)	172633	47.4620	47.5	
90	n-Butylbenzene	91	9.032	9.030	(1.022)	401990	50.6331	50.6	
91	1,2-Dichlorobenzene	146	9.048	9.046	(1.024)	153722	46.2198	46.2	
92	1,2-Dibromo-3-chloropropane	155	9.453	9.452	(1.069)	8378	59.4546	59.4	
93	1,2,4-Trichlorobenzene	180	9.859	9.858	(1.115)	93170	48.5959	48.6	
94	Hexachlorobutadiene	225	9.923	9.927	(1.123)	53702	47.3803	47.4	
95	Naphthalene	128	10.004	10.002	(1.132)	210347	50.1047	50.1	
96	1,2,3-Trichlorobenzene	180	10.116	10.114	(1.144)	84974	47.9244	47.9	
97	2,methyl-naphthalene	142	10.634	10.632	(1.203)	112725	45.2010	45.2	
98	1-Methylnaphthalene	142	10.746	10.744	(1.216)	118555	54.1735	54.2	

QC Flag Legend

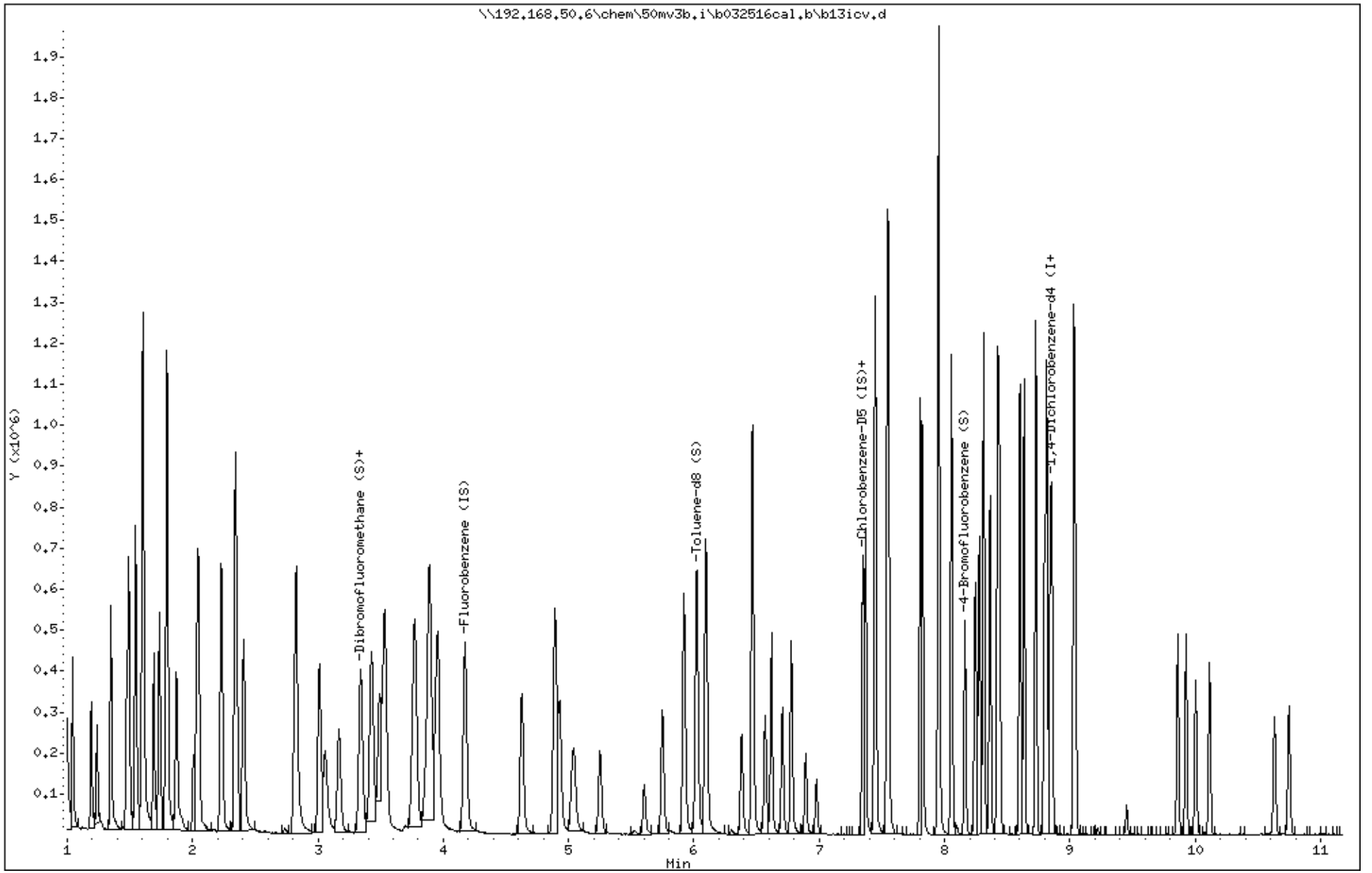
Q - Qualifier signal failed the ratio test.

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d
Date : 25-MAR-2016 20:42
Client ID:
Sample Info: 8260-ICV,117894:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

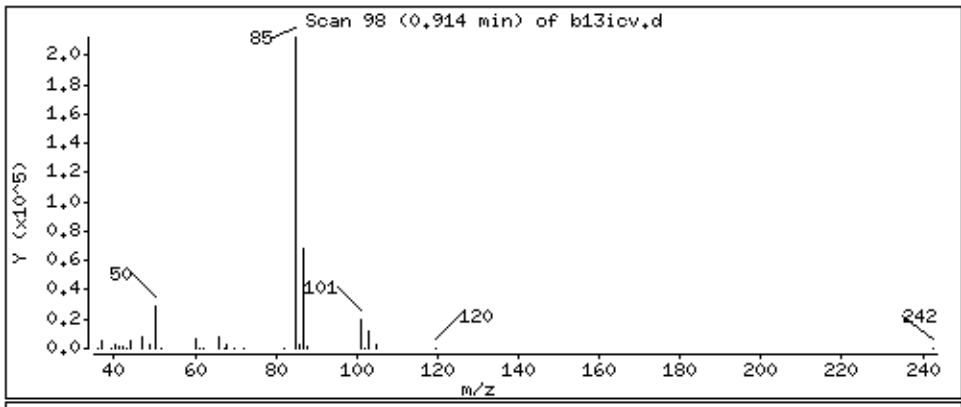
Column phase: DB-624

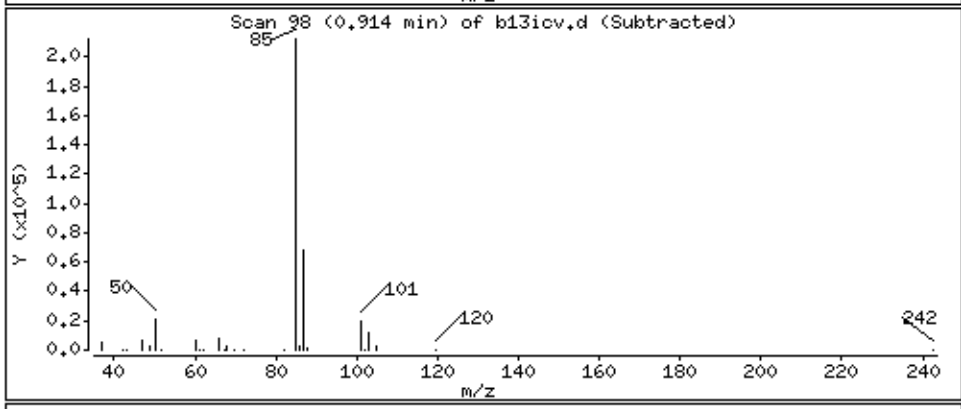
Column diameter: 0.18

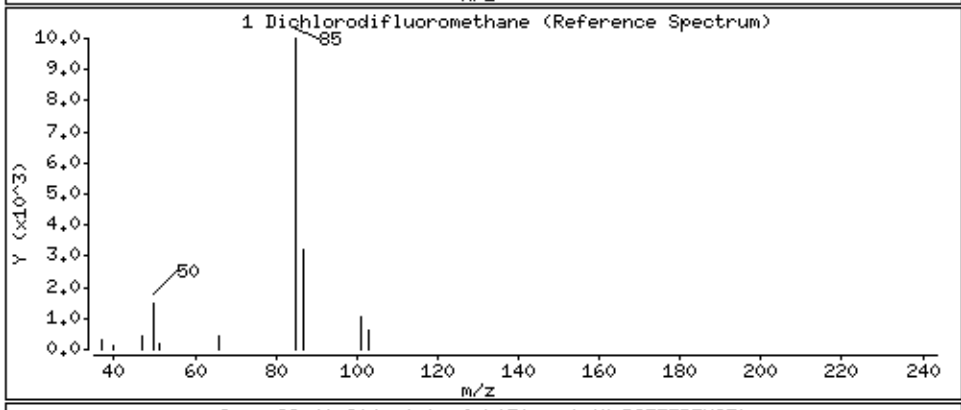
1 Dichlorodifluoromethane

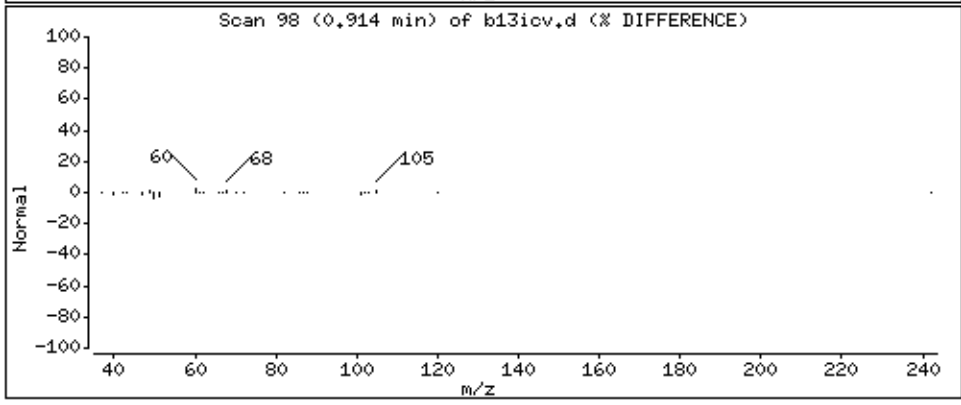
Concentration: 47.1 ppb

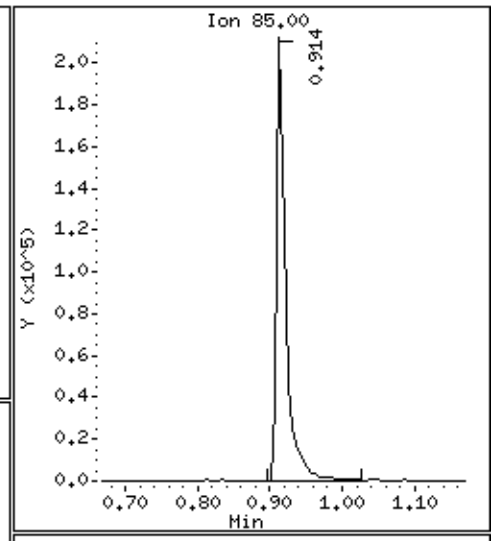
Review Code:

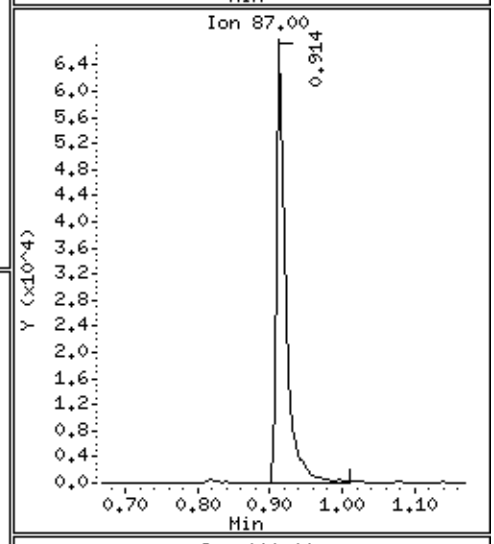


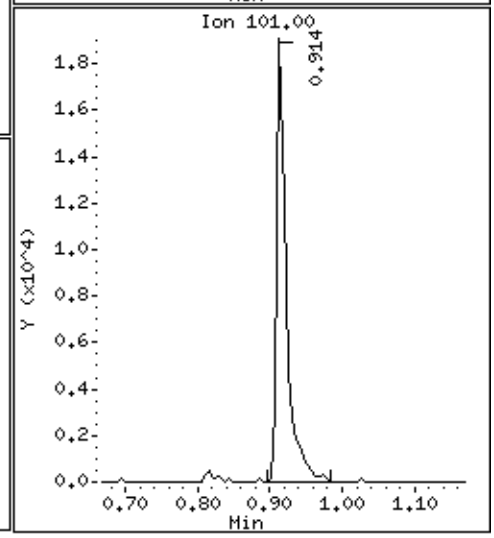












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

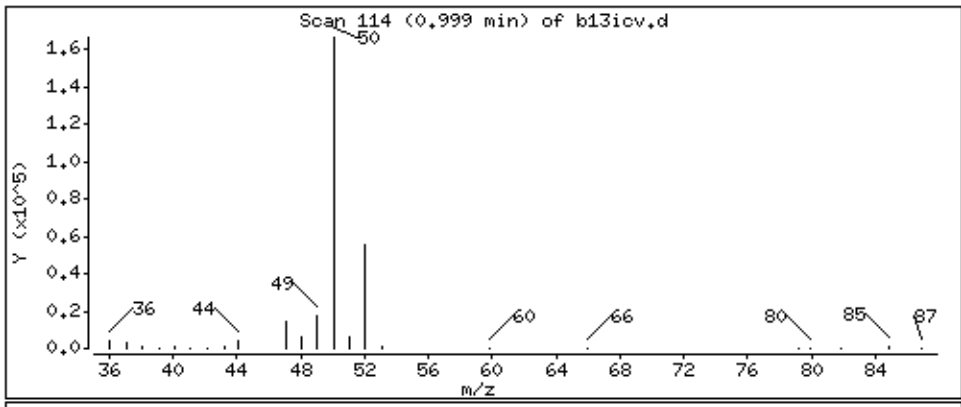
Column phase: DB-624

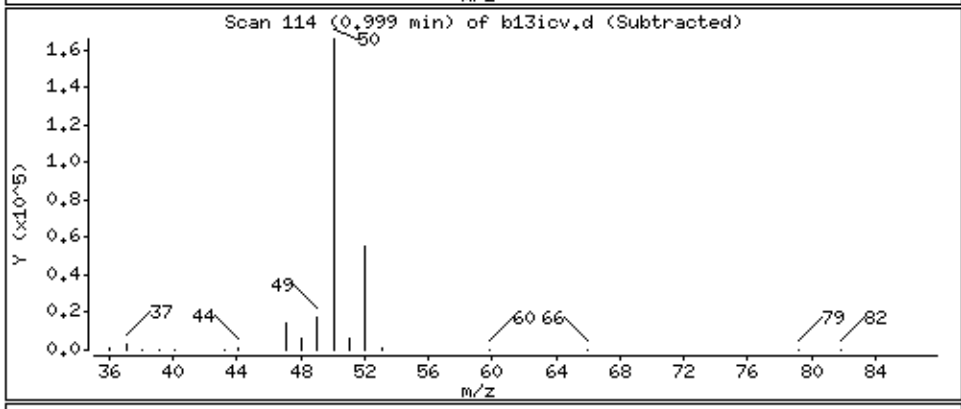
Column diameter: 0.18

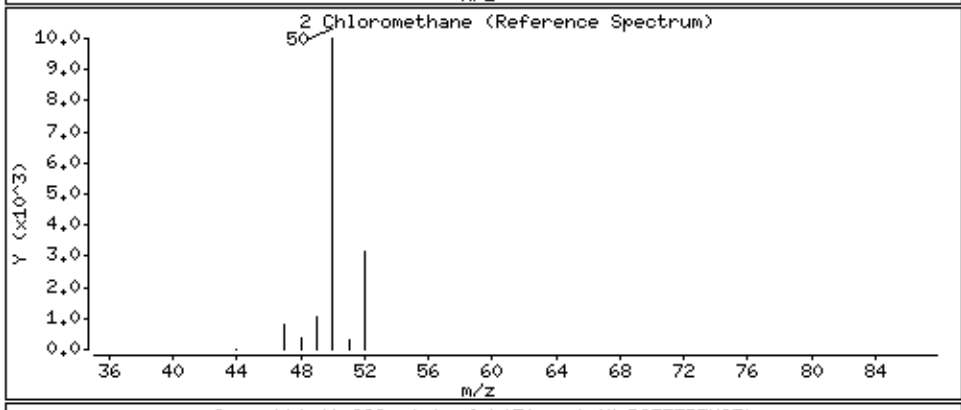
2 Chloromethane

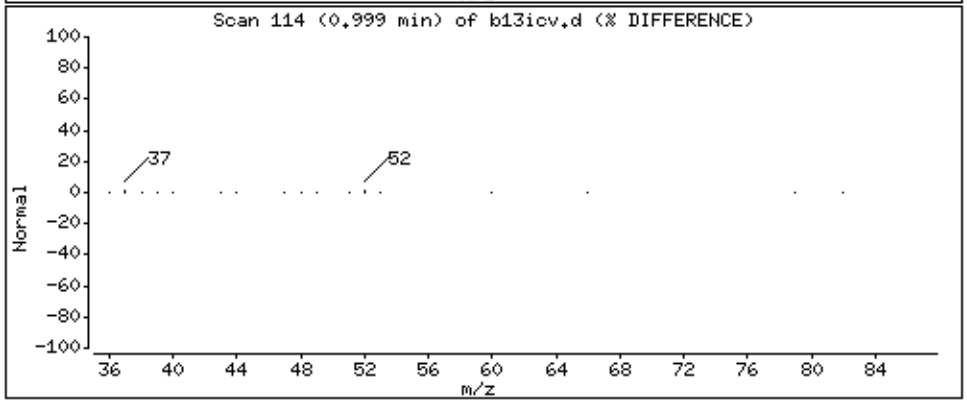
Concentration: 43.1 ppb

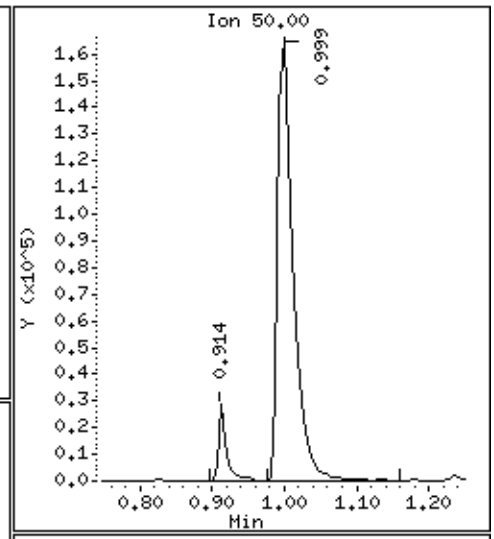
Review Code:

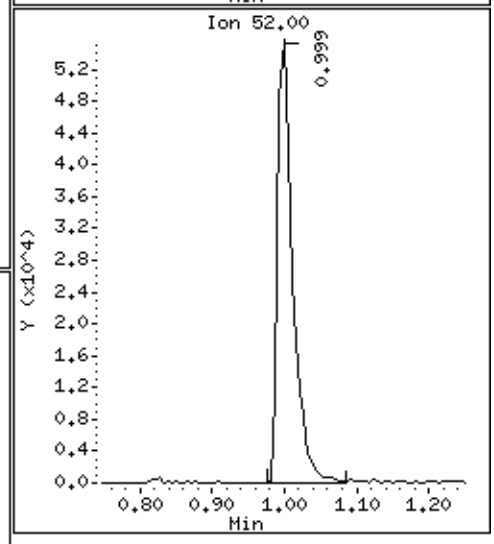












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

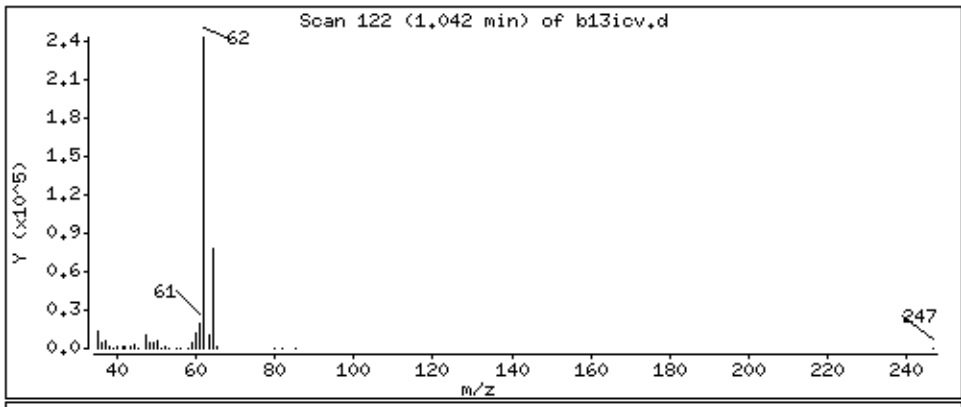
Column phase: DB-624

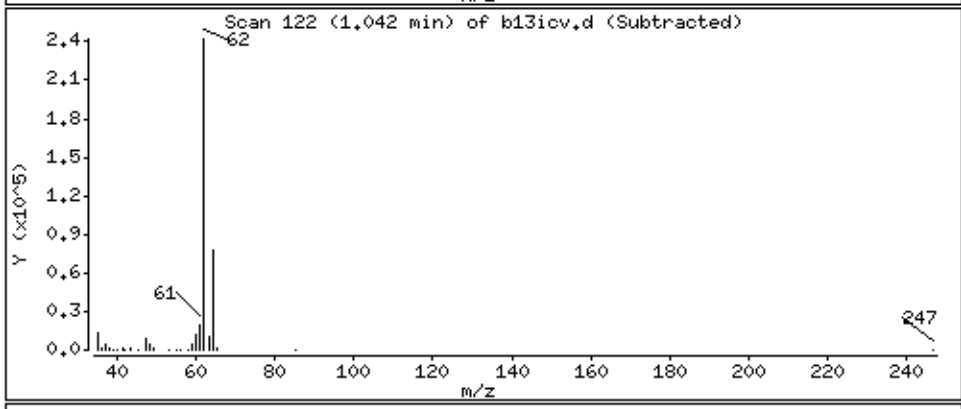
Column diameter: 0.18

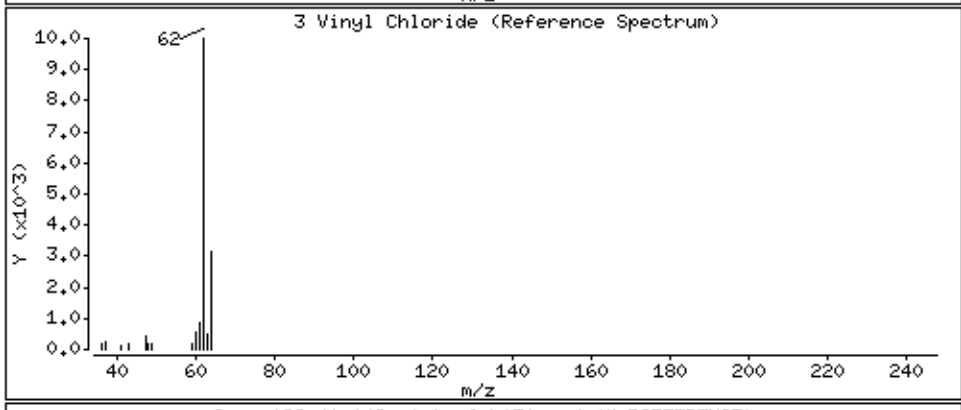
3 Vinyl Chloride

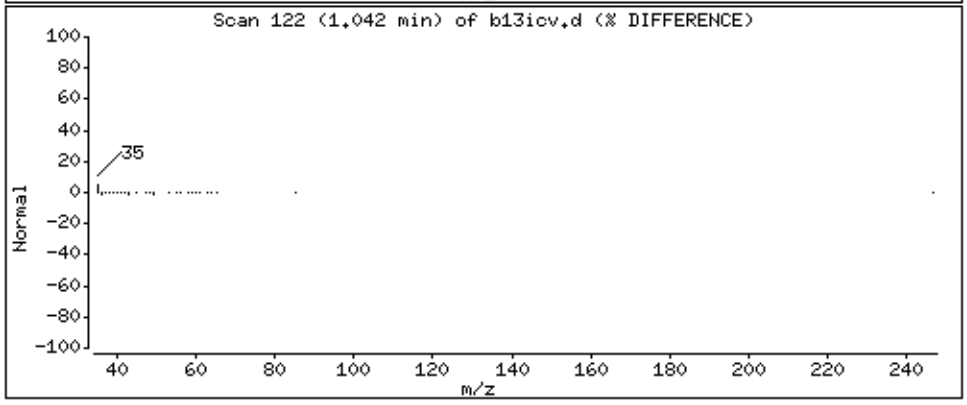
Concentration: 46.6 ppb

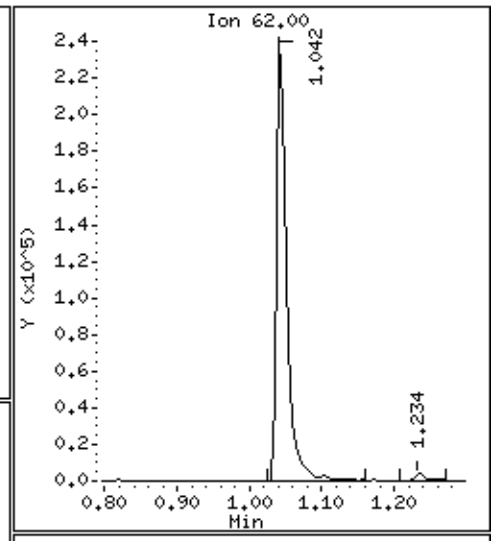
Review Code:

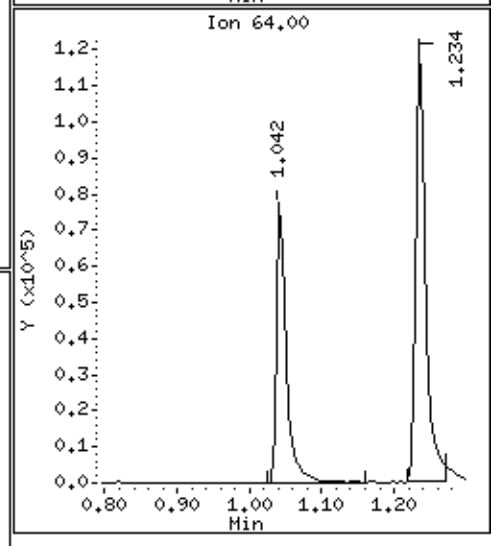












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

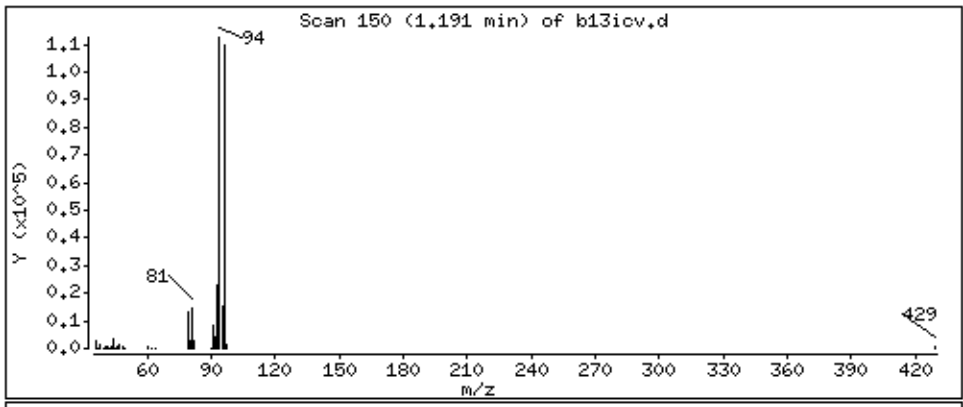
Column phase: DB-624

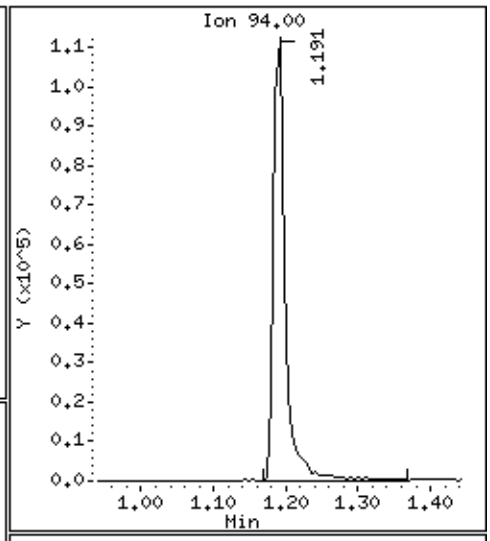
Column diameter: 0.18

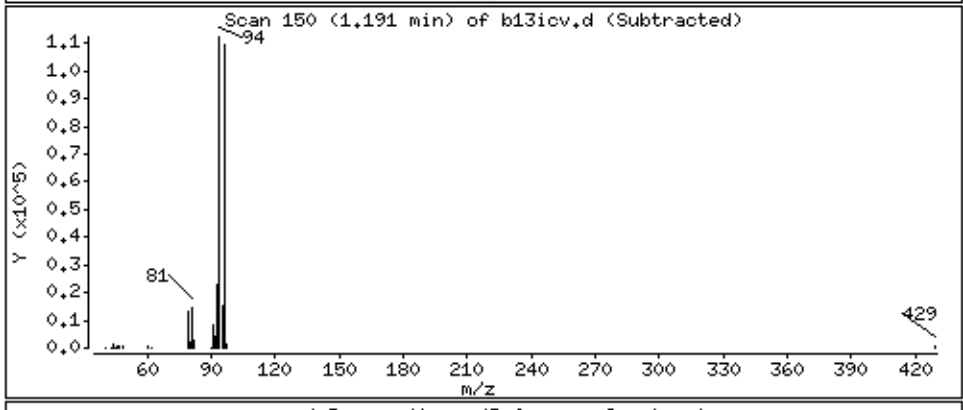
4 Bromomethane

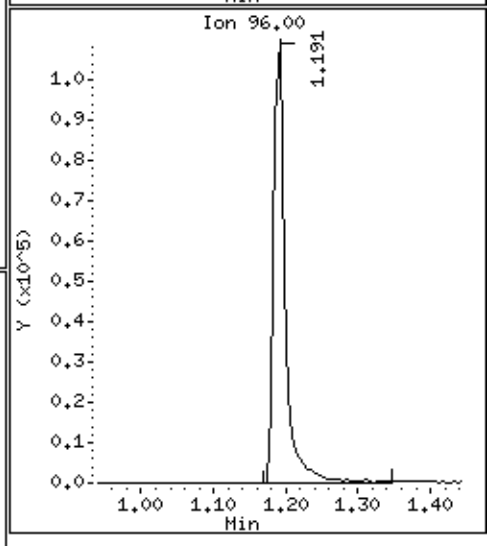
Concentration: 52.8 ppb

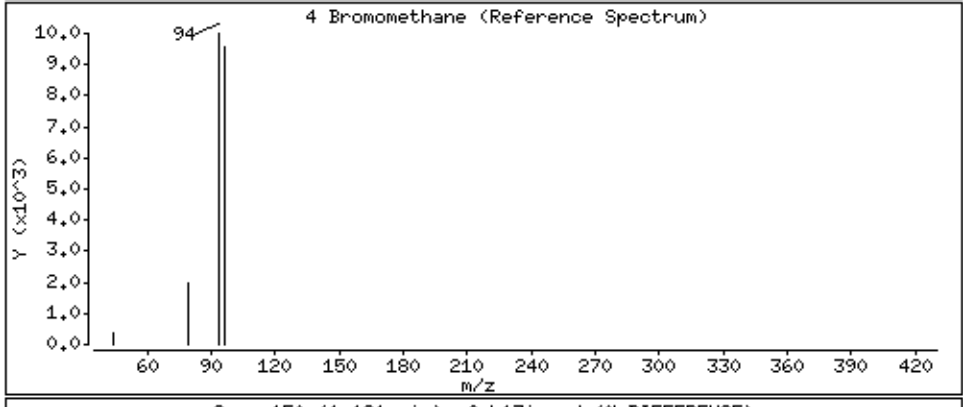
Review Code:

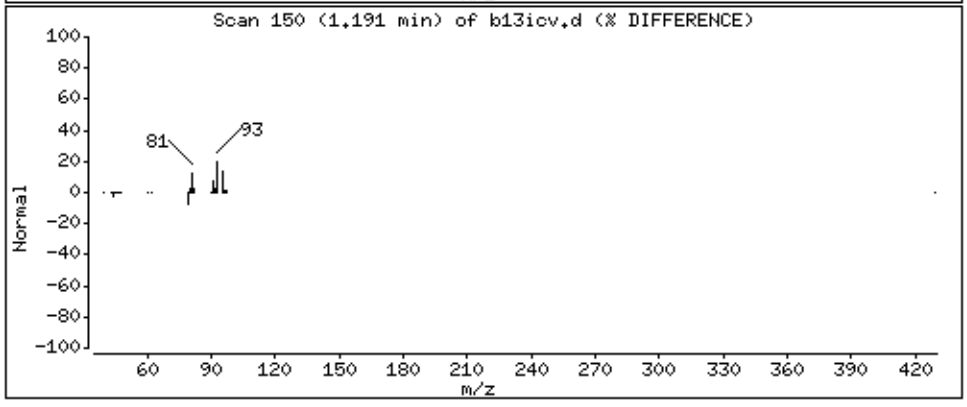












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

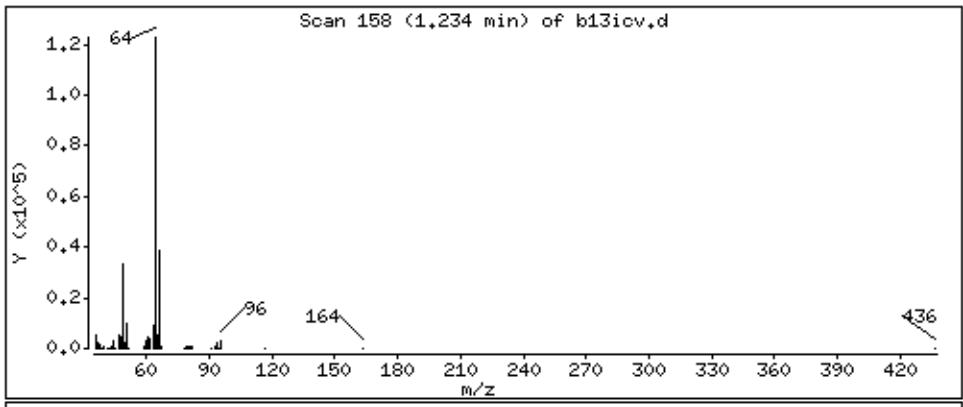
Column phase: DB-624

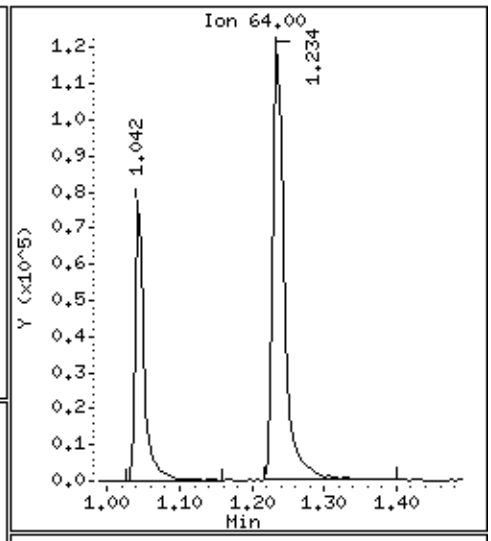
Column diameter: 0.18

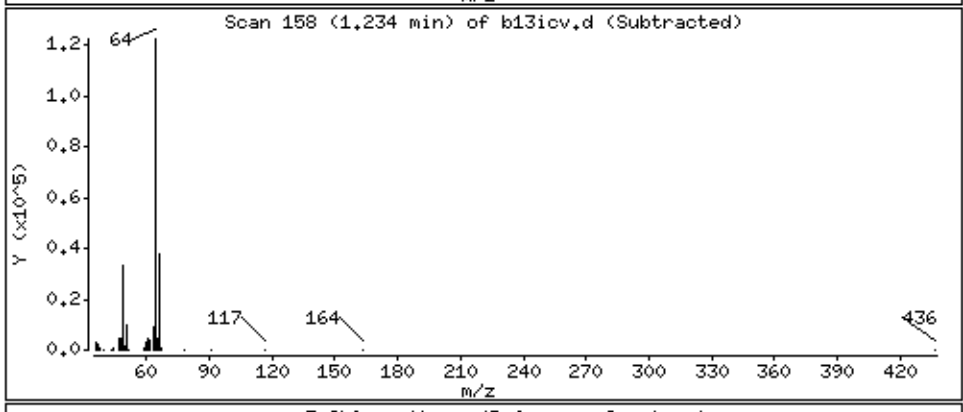
5 Chloroethane

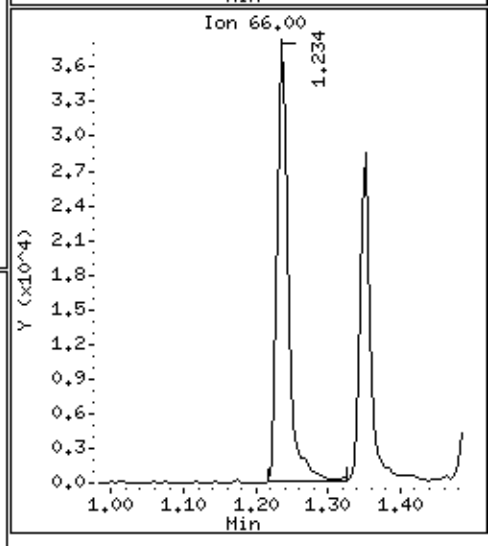
Concentration: 44.0 ppb

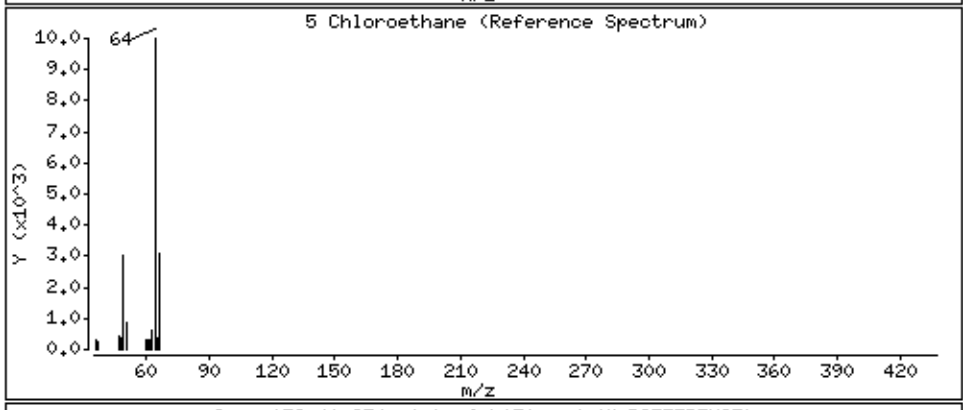
Review Code:

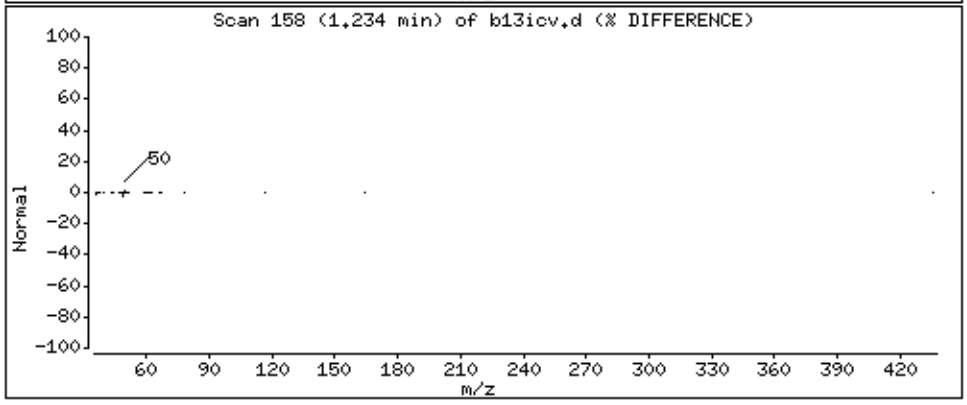












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

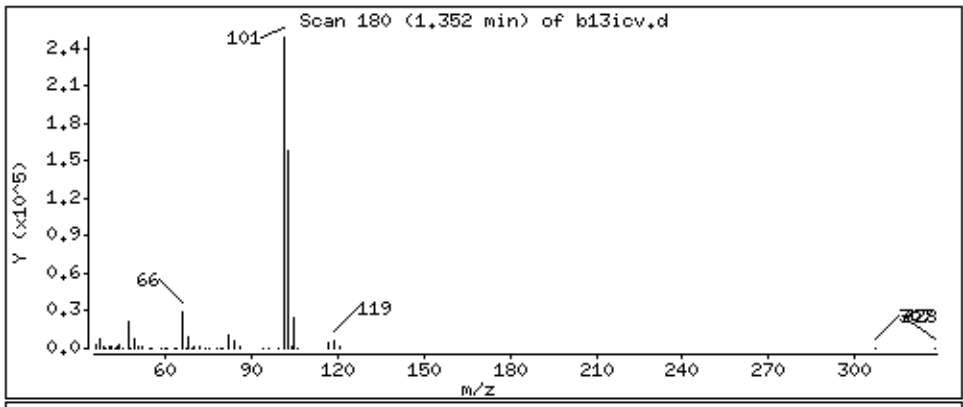
Column phase: DB-624

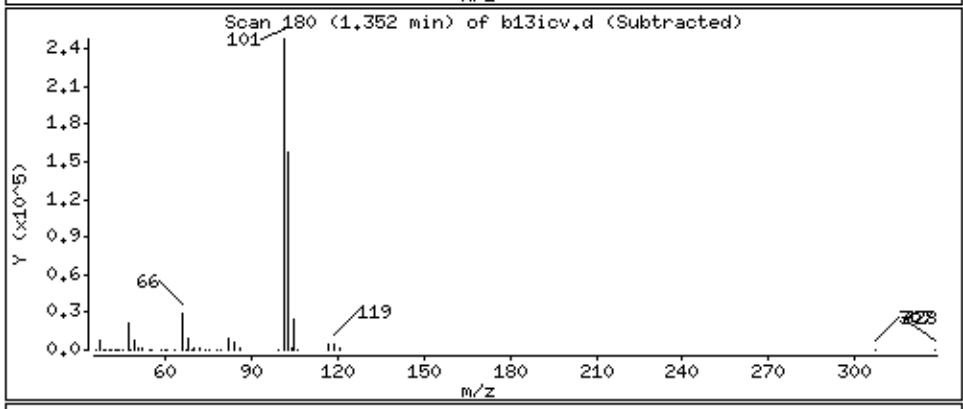
Column diameter: 0.18

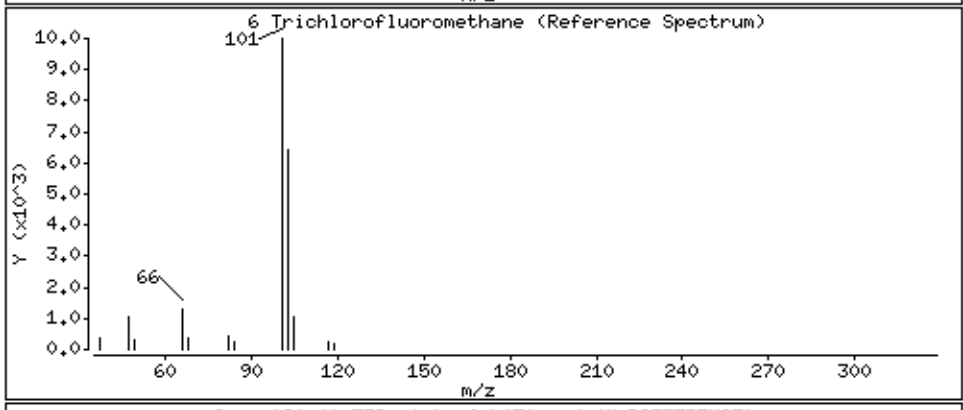
6 Trichlorofluoromethane

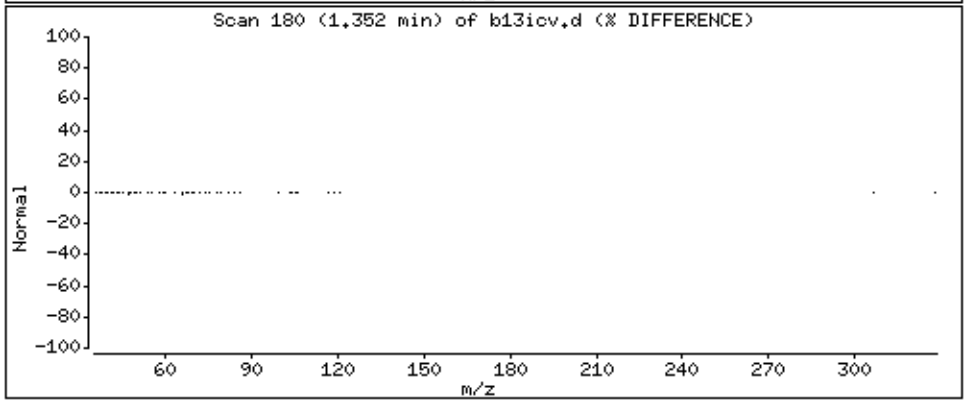
Concentration: 48.0 ppb

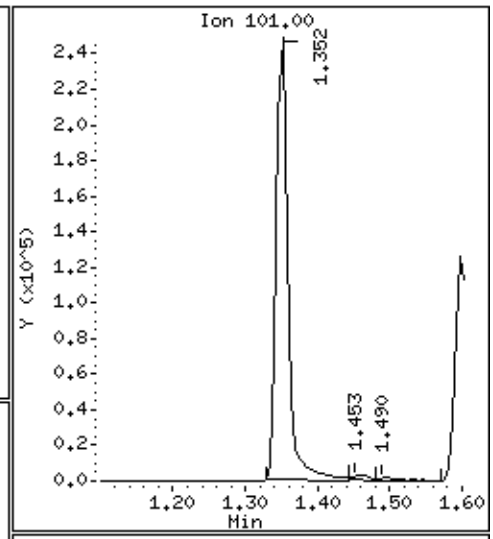
Review Code:

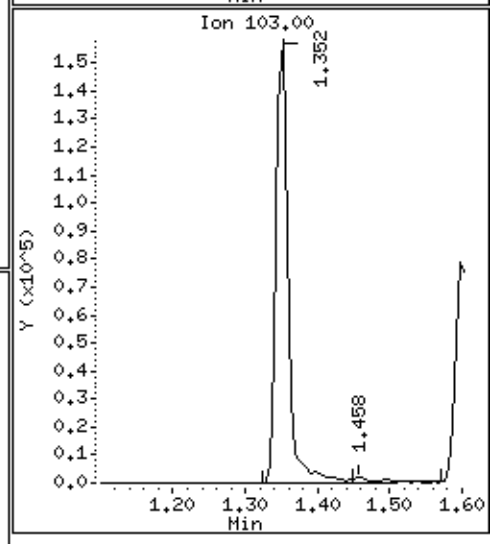












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 11

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

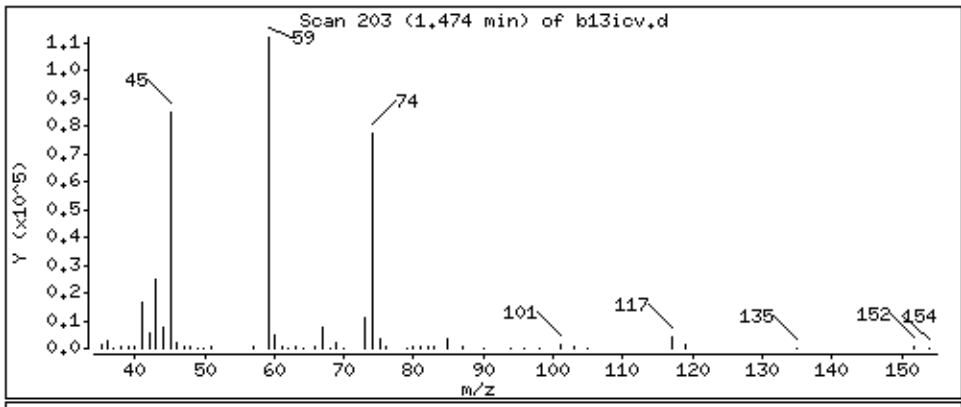
Column phase: DB-624

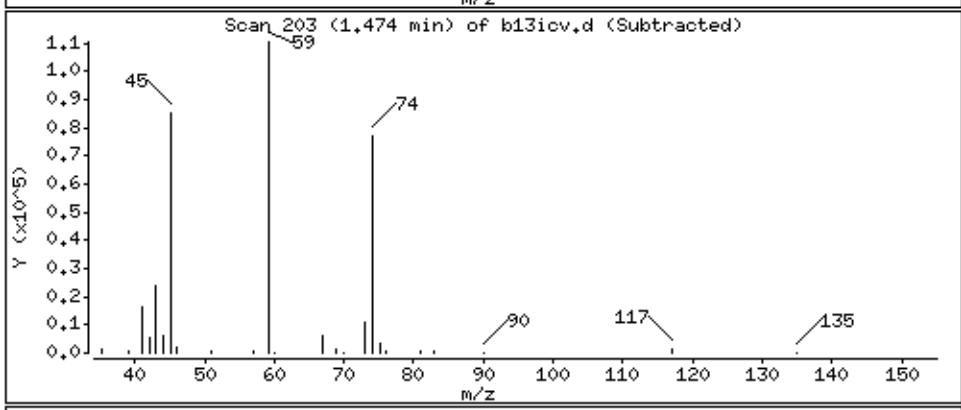
Column diameter: 0.18

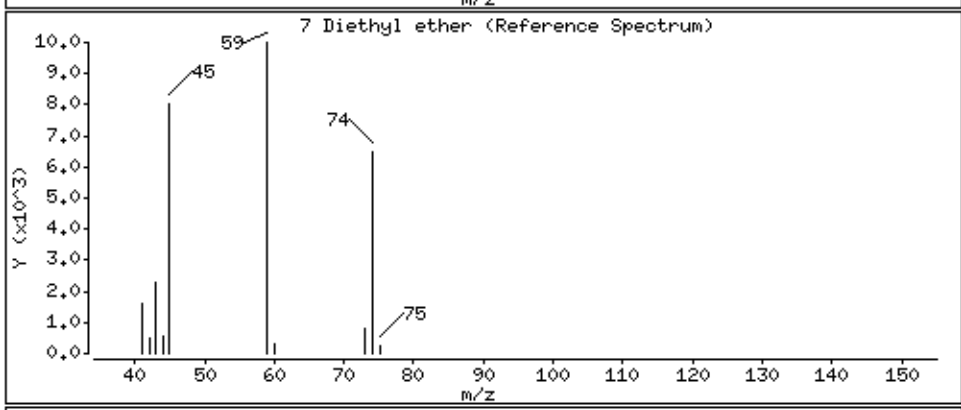
7 Diethyl ether

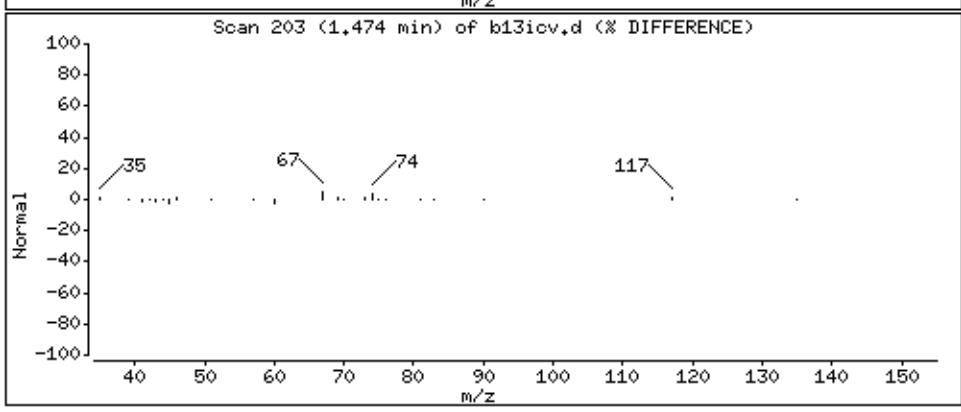
Concentration: 49.4 ppb

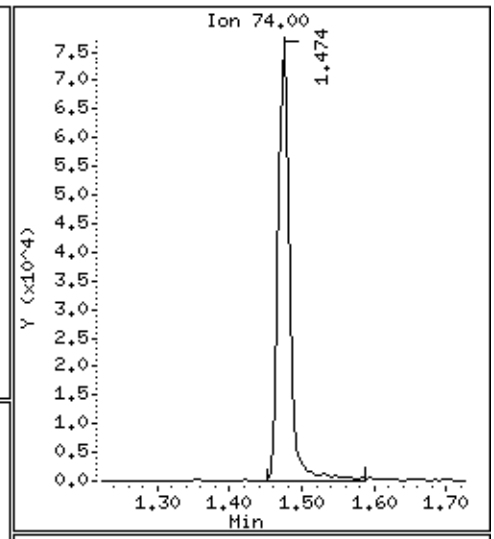
Review Code:

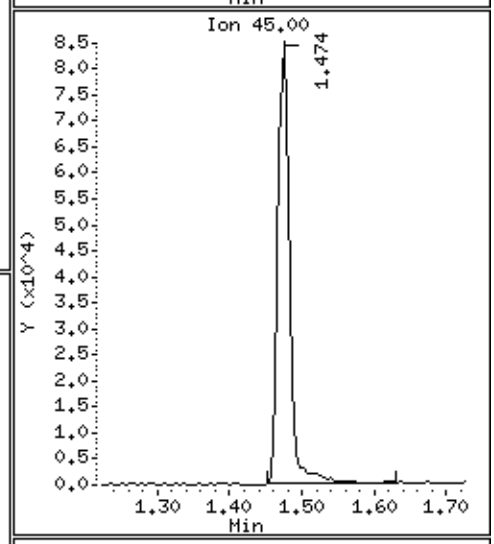


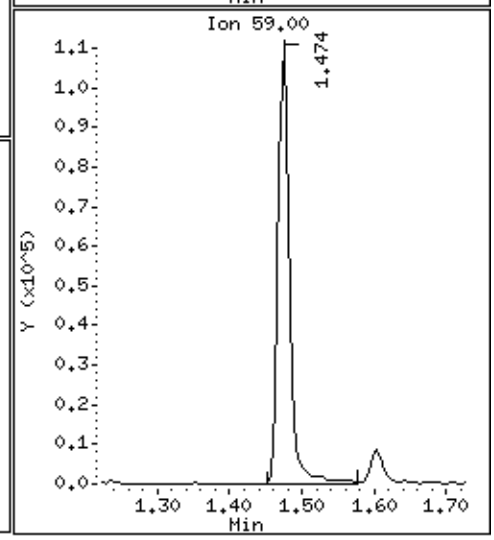












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 12

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

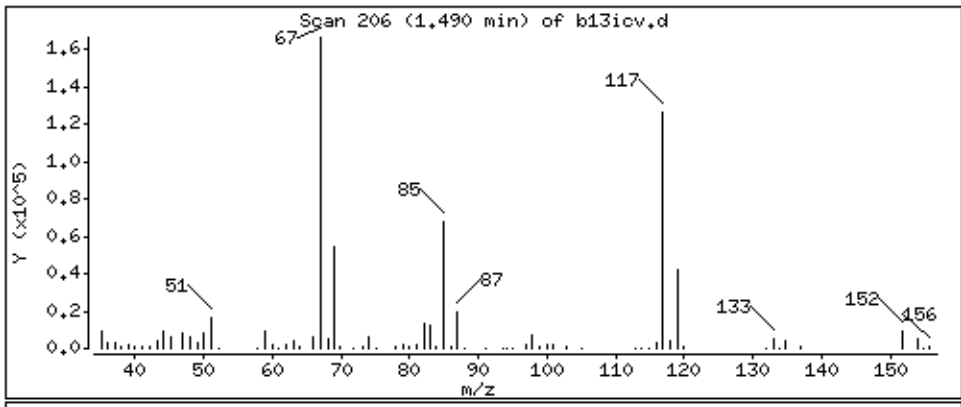
Column phase: DB-624

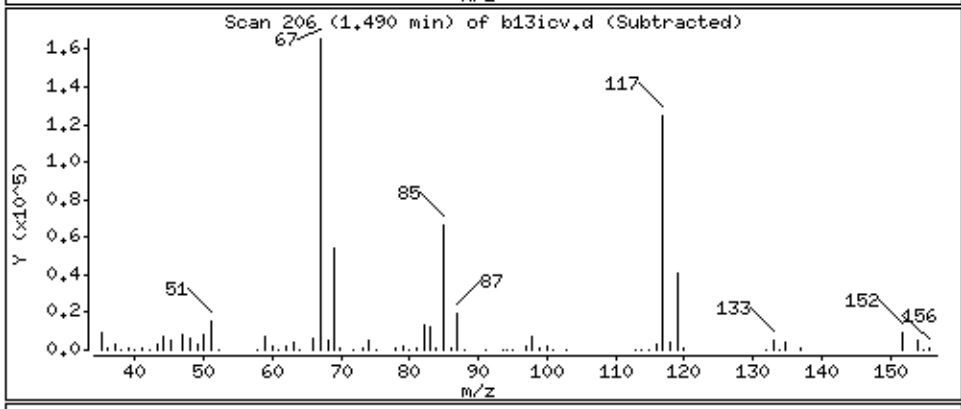
Column diameter: 0.18

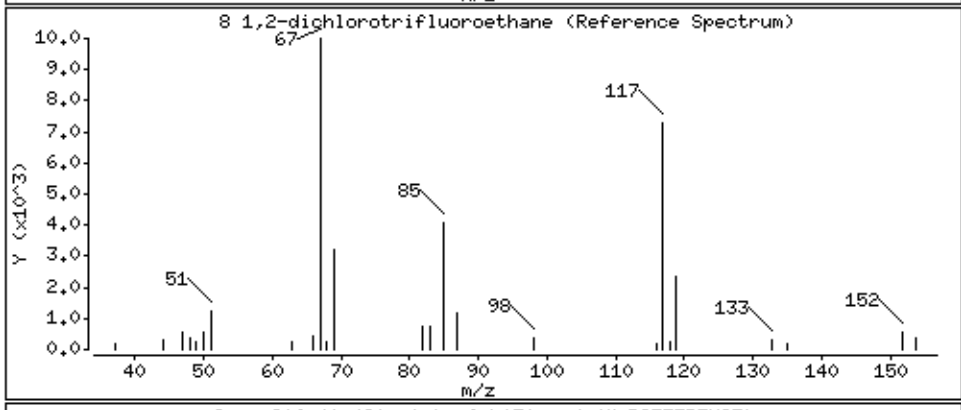
8 1,2-dichlorotrifluoroethane

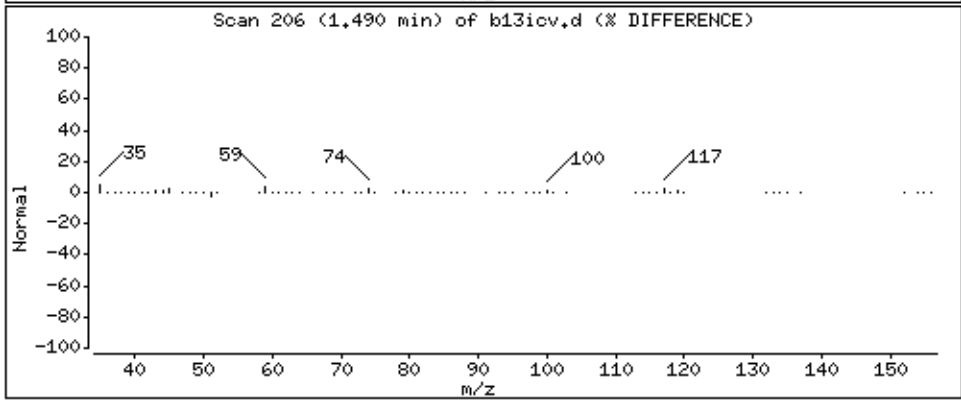
Concentration: 48.1 ppb

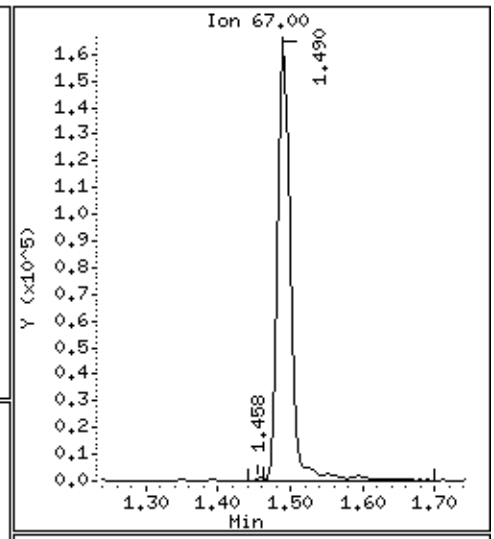
Review Code:

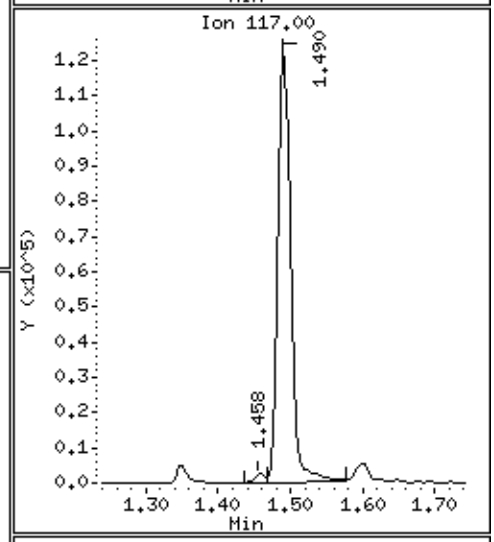


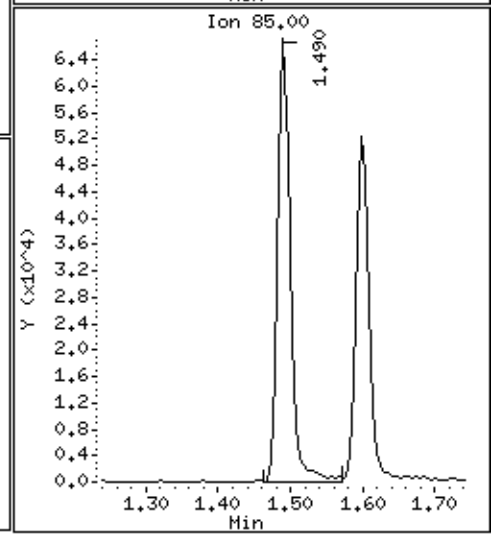












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

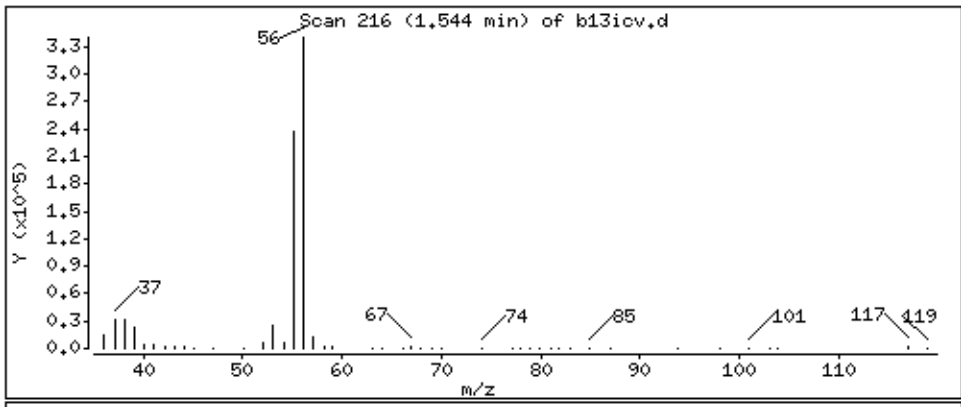
Column phase: DB-624

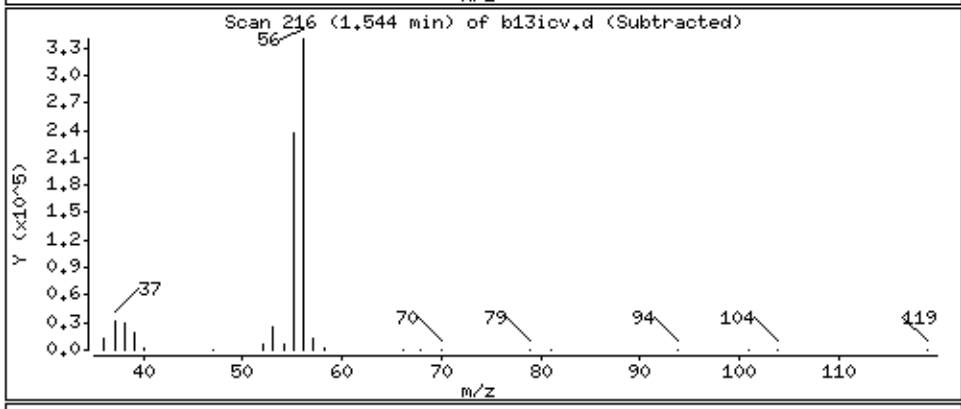
Column diameter: 0.18

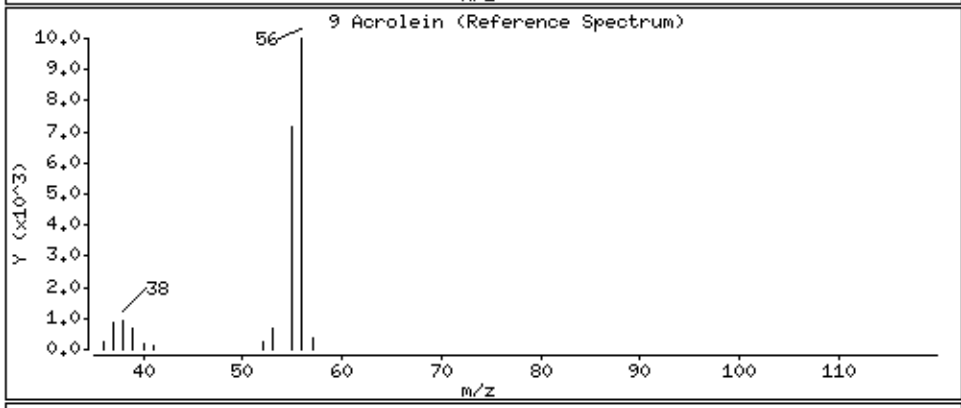
9 Acrolein

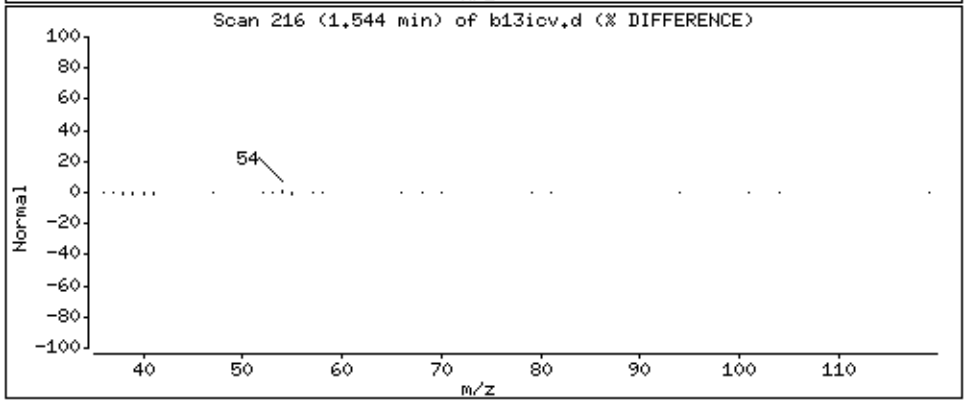
Concentration: 1060 ppb

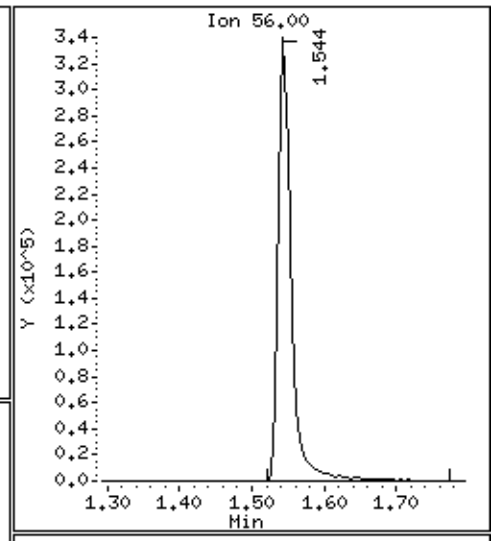
Review Code:

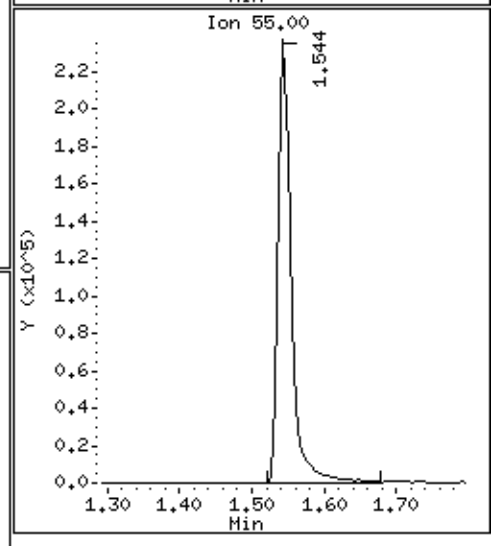












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

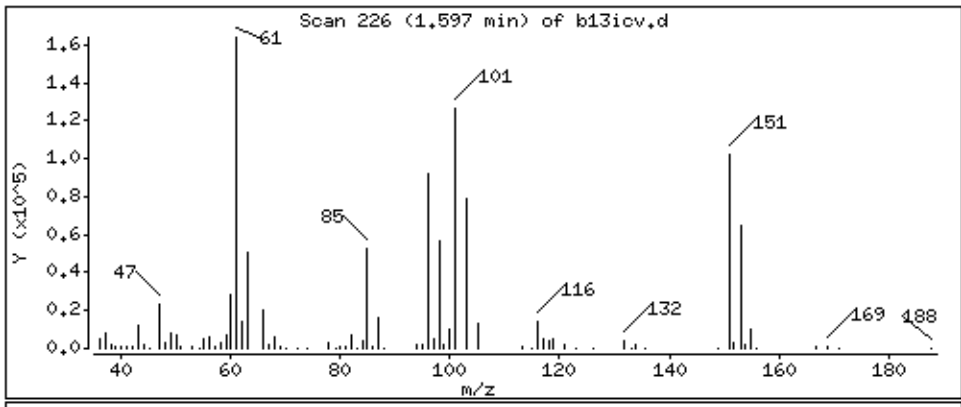
Column phase: DB-624

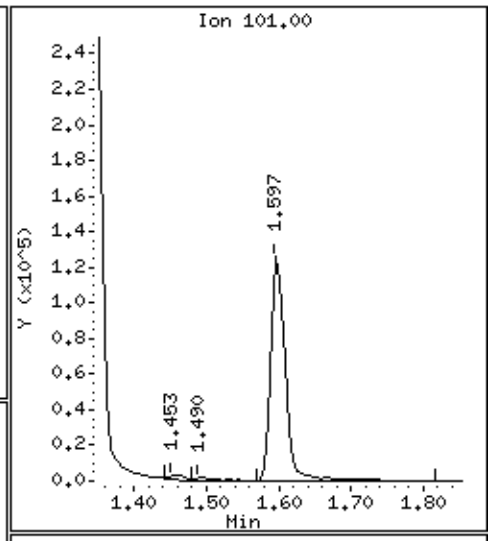
Column diameter: 0.18

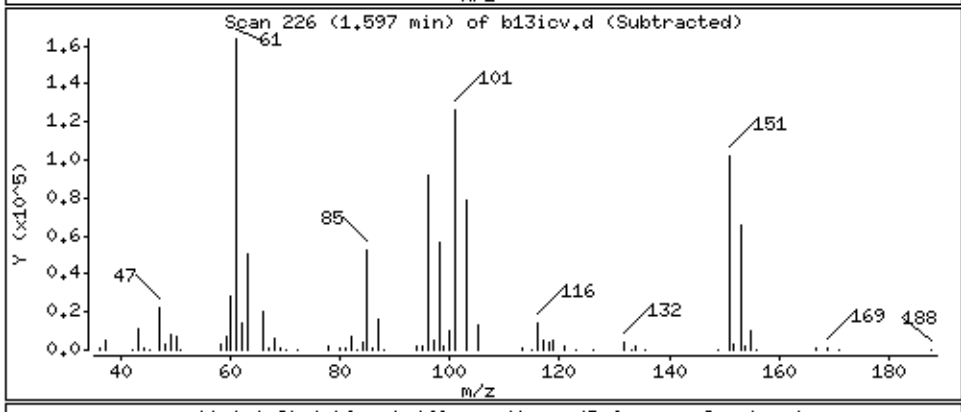
10 1,1,2trichlorotrifluoroethane

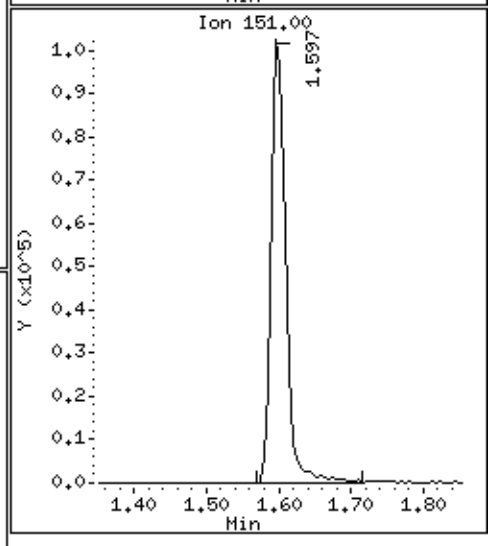
Concentration: 49.3 ppb

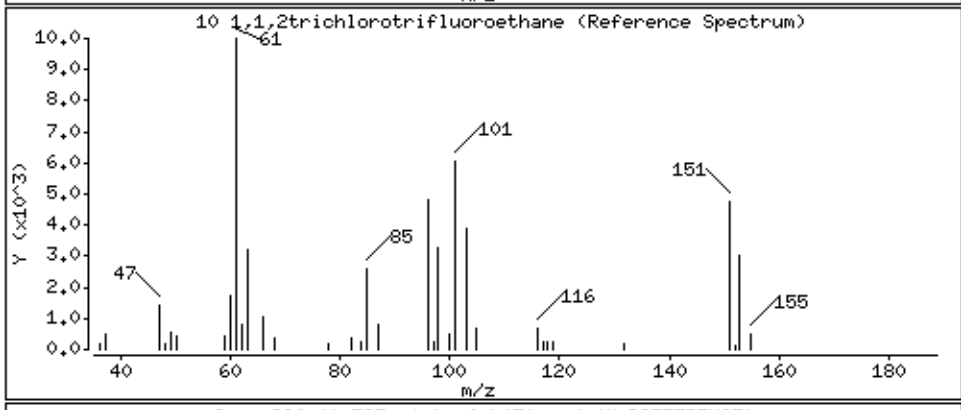
Review Code:

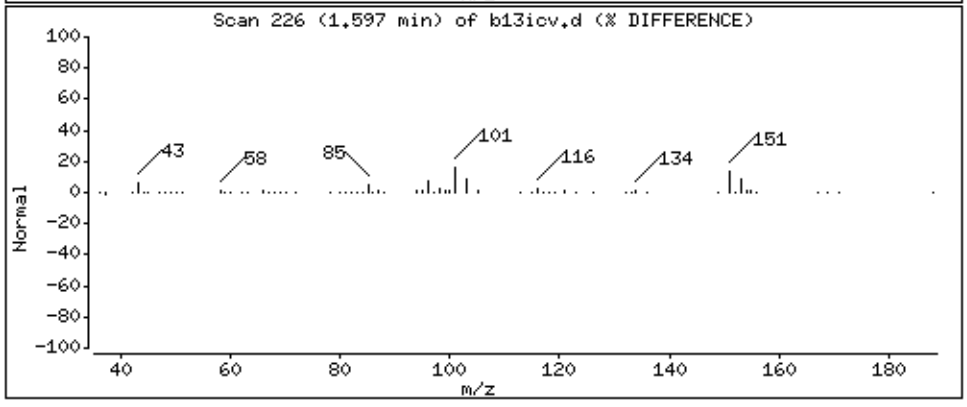












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

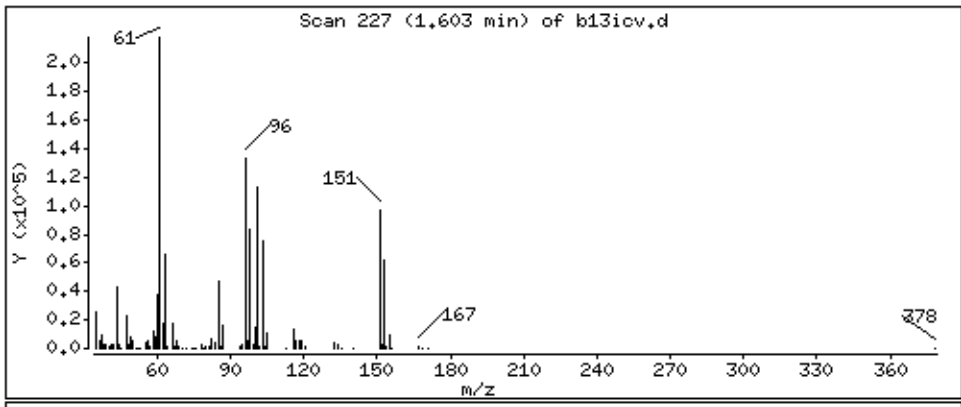
Column phase: DB-624

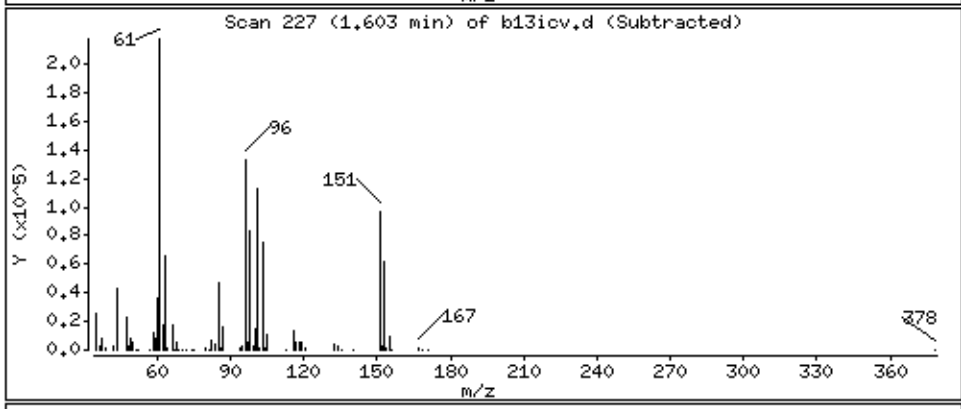
Column diameter: 0.18

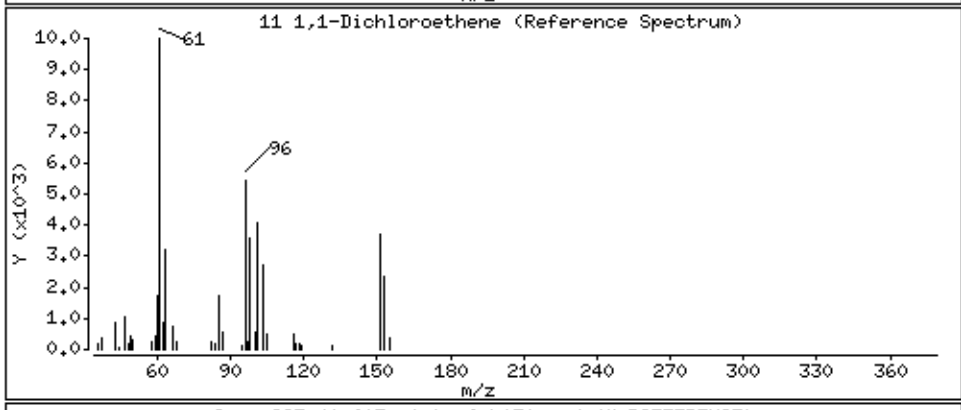
11 1,1-Dichloroethene

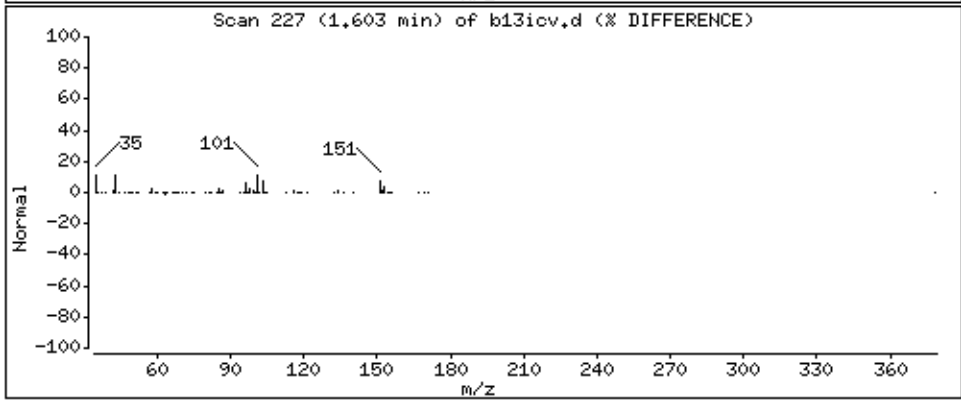
Concentration: 48.6 ppb

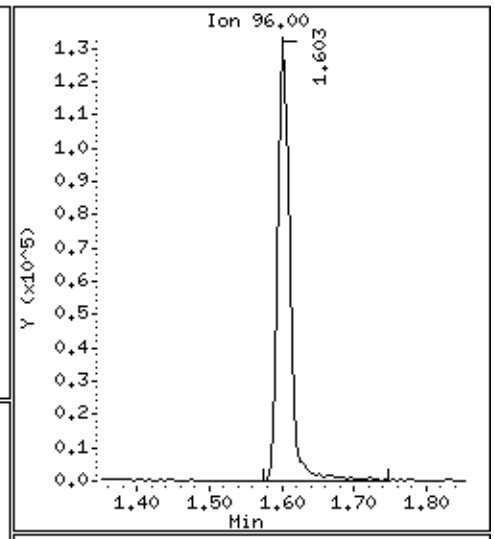
Review Code:

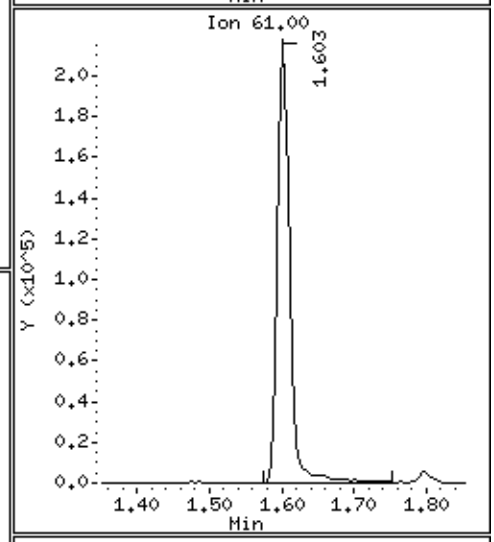


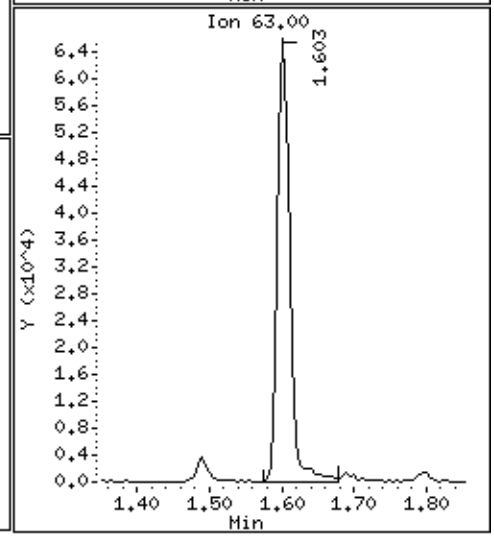












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

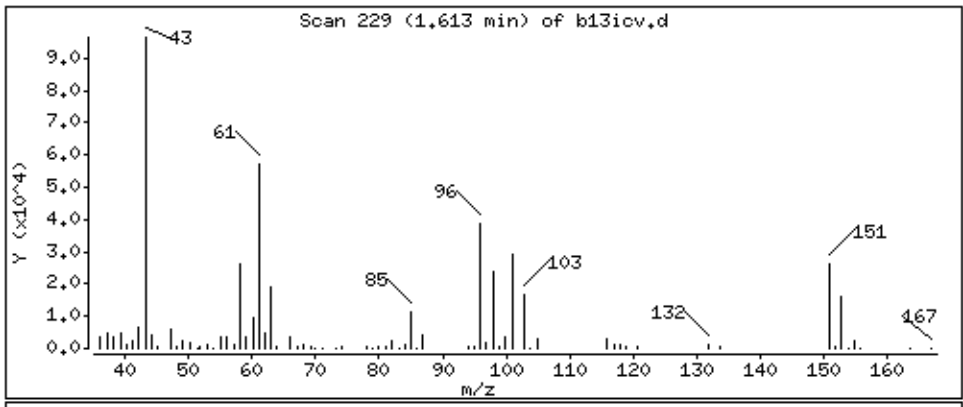
Column phase: DB-624

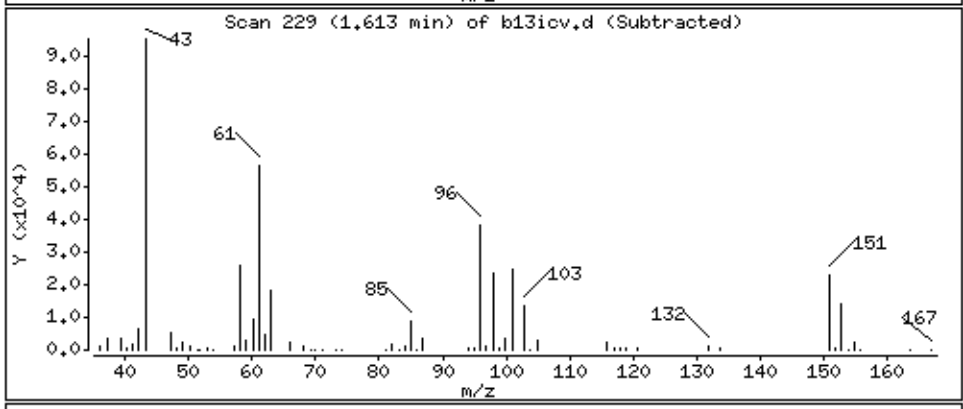
Column diameter: 0.18

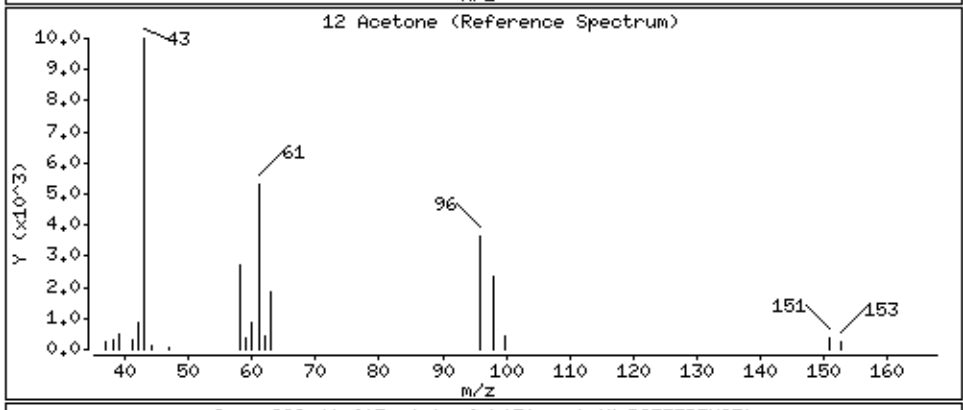
12 Acetone

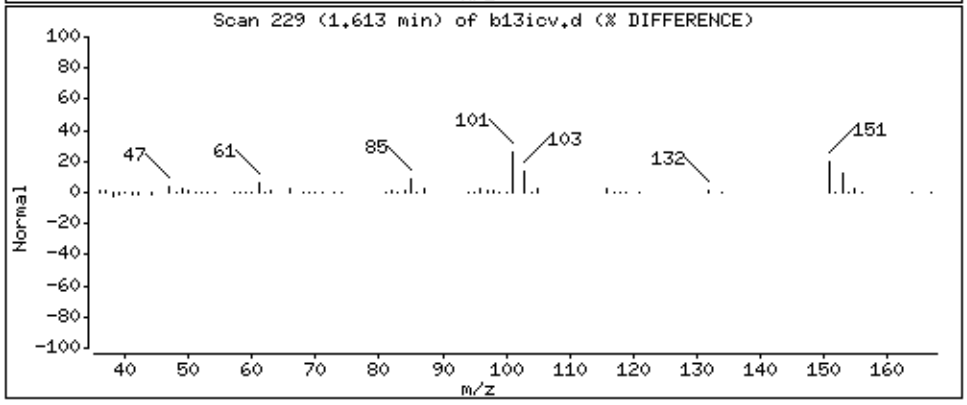
Concentration: 224 ppb

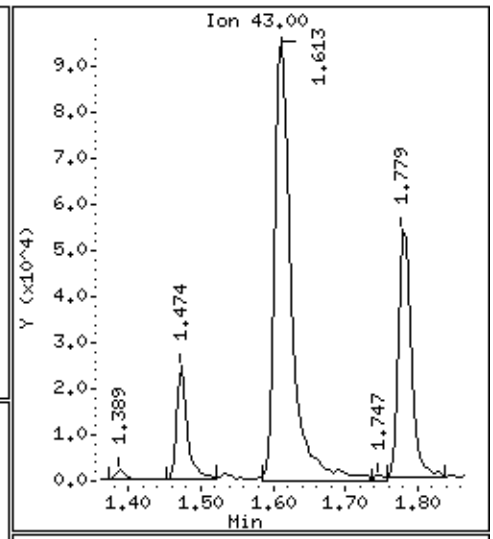
Review Code:

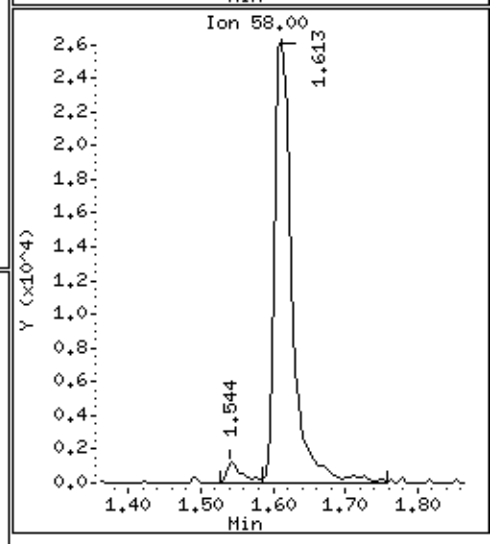












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

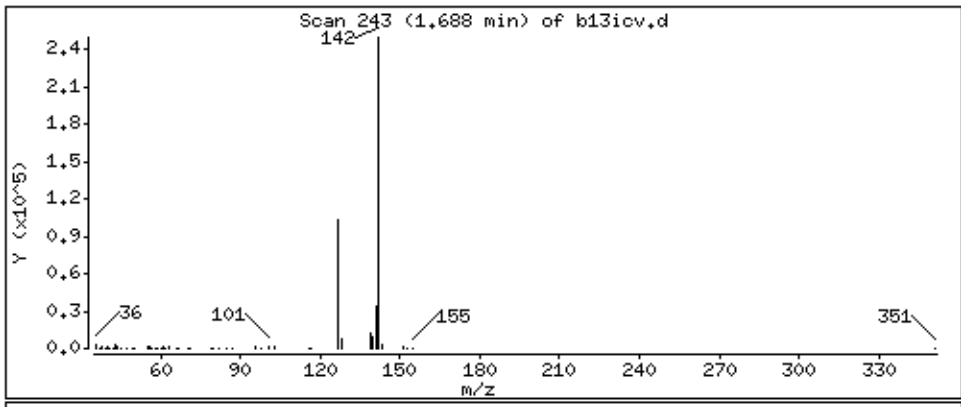
Column phase: DB-624

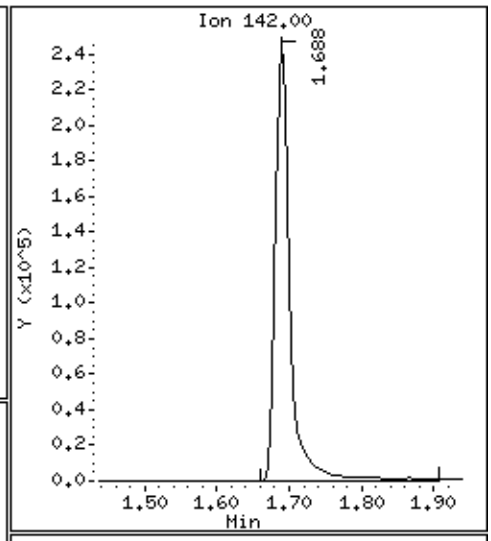
Column diameter: 0.18

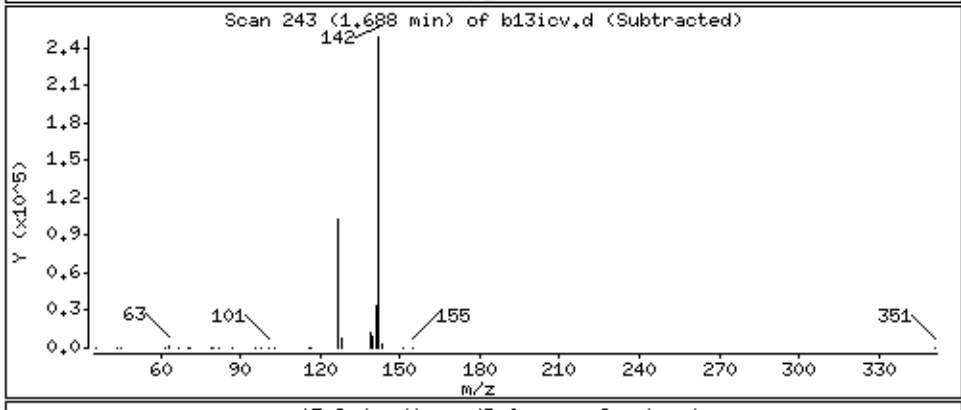
13 Iodomethane

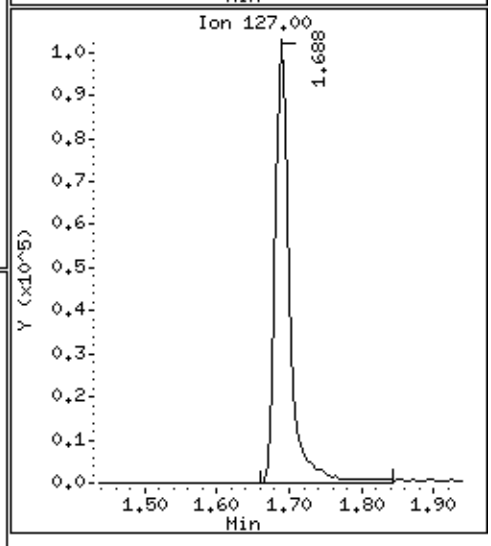
Concentration: 102 ppb

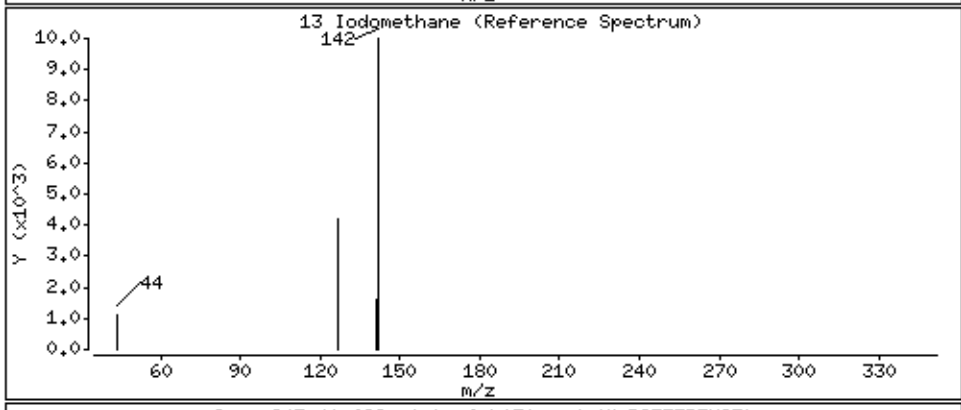
Review Code:

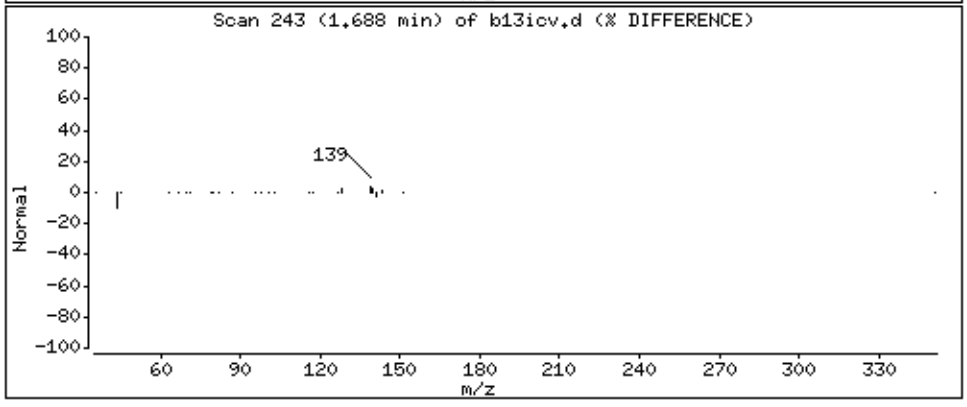












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

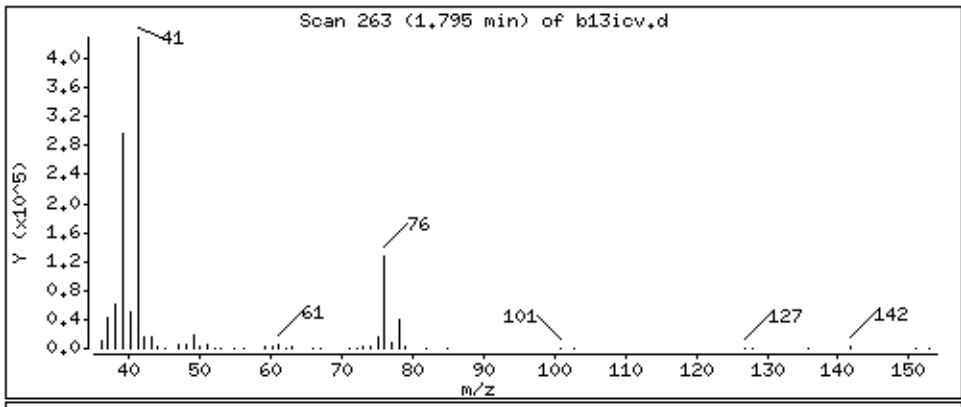
Column phase: DB-624

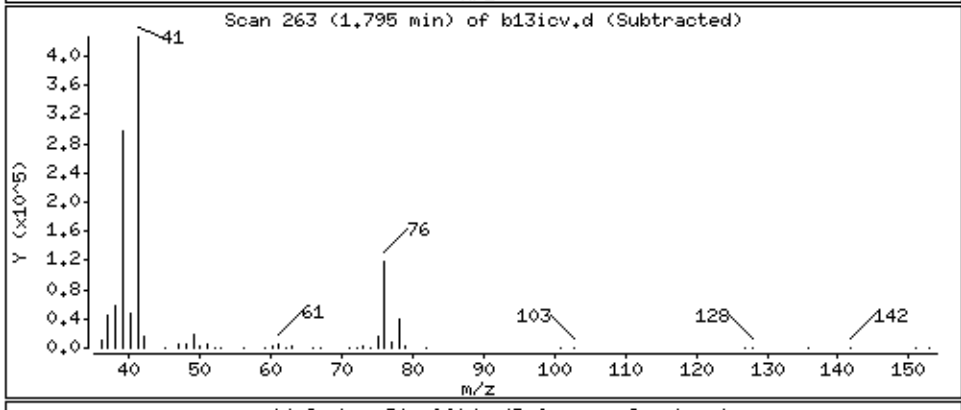
Column diameter: 0.18

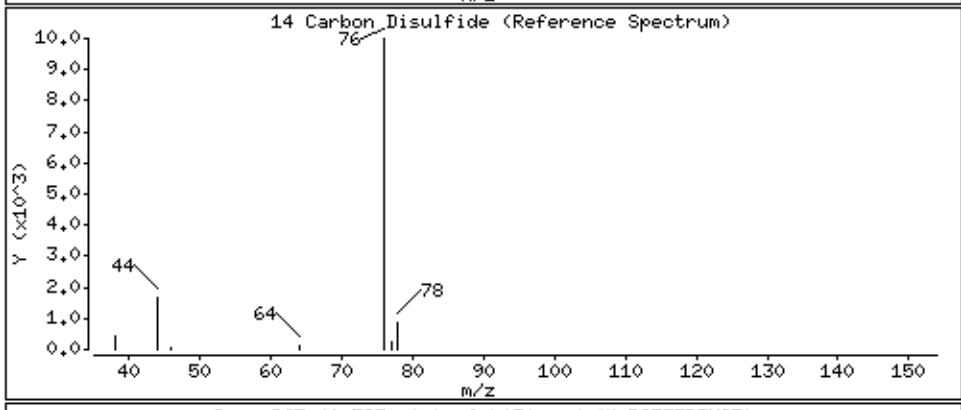
14 Carbon Disulfide

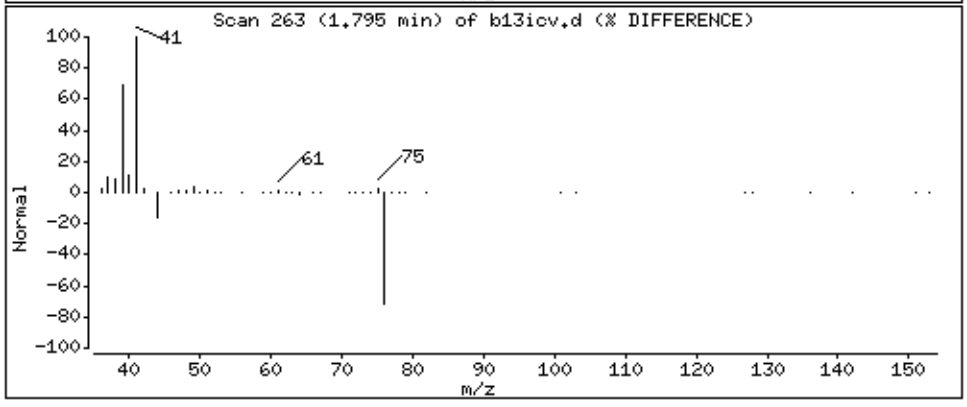
Concentration: 49.8 ppb

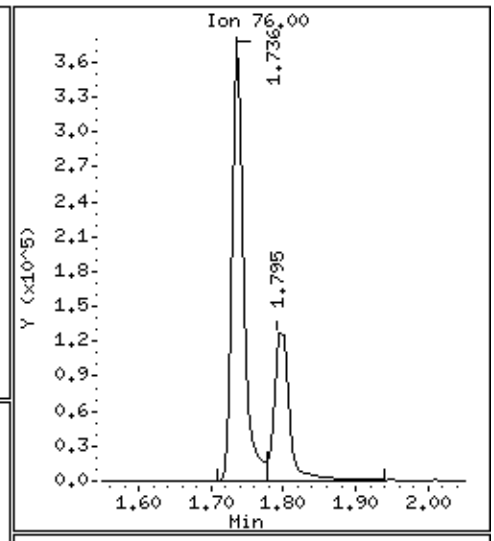
Review Code:

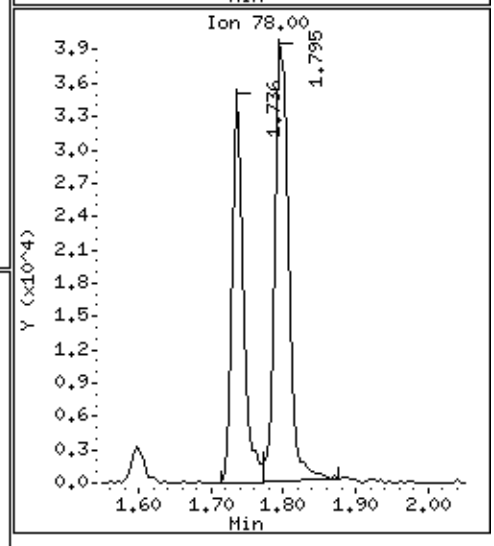












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

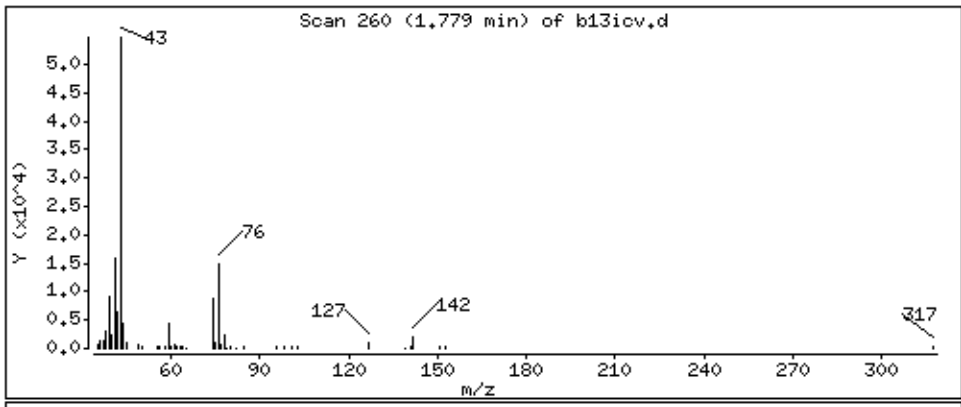
Column phase: DB-624

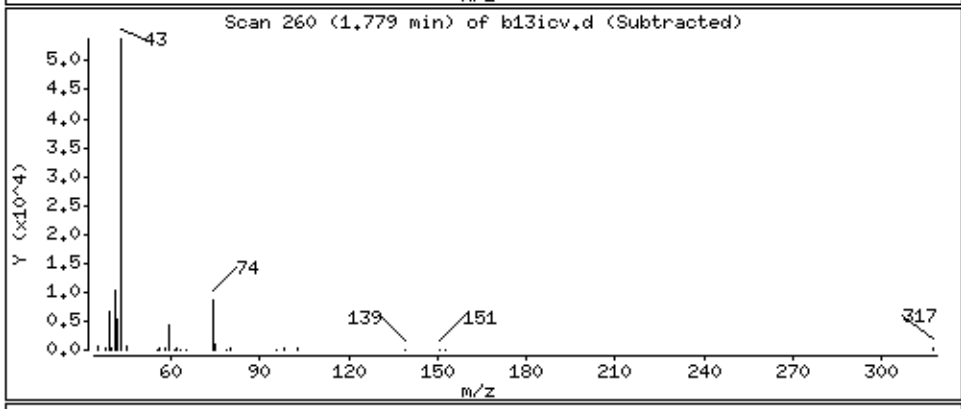
Column diameter: 0.18

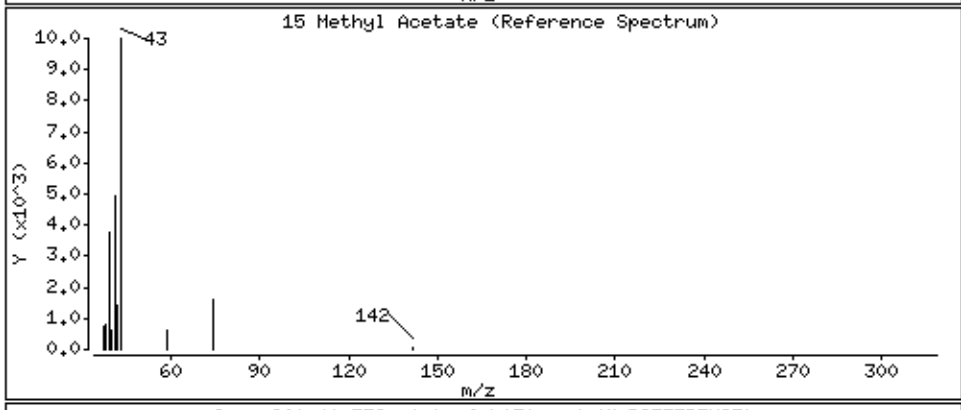
15 Methyl Acetate

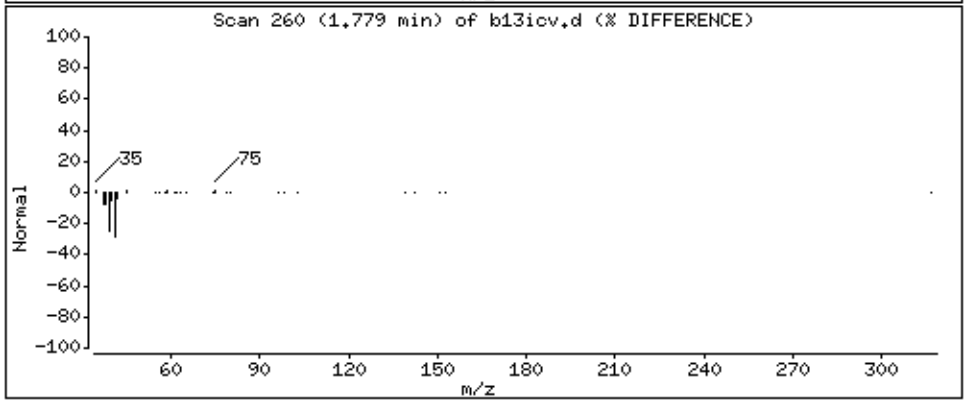
Concentration: 47.9 ppb

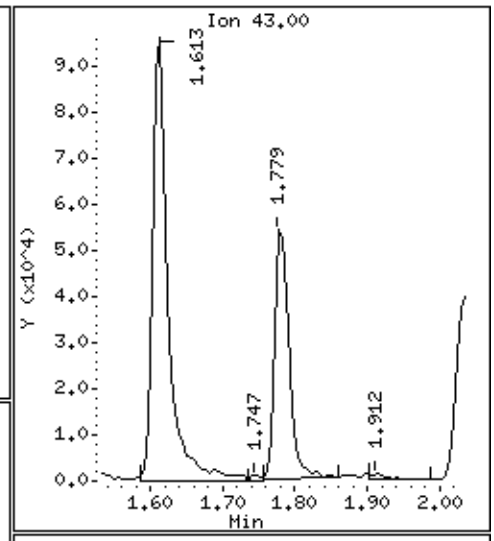
Review Code:

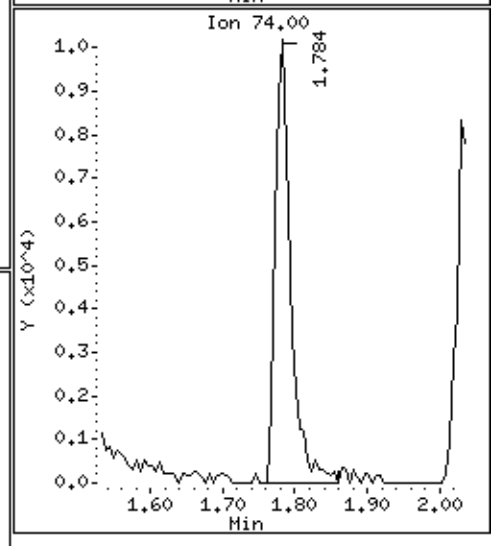












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 20

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

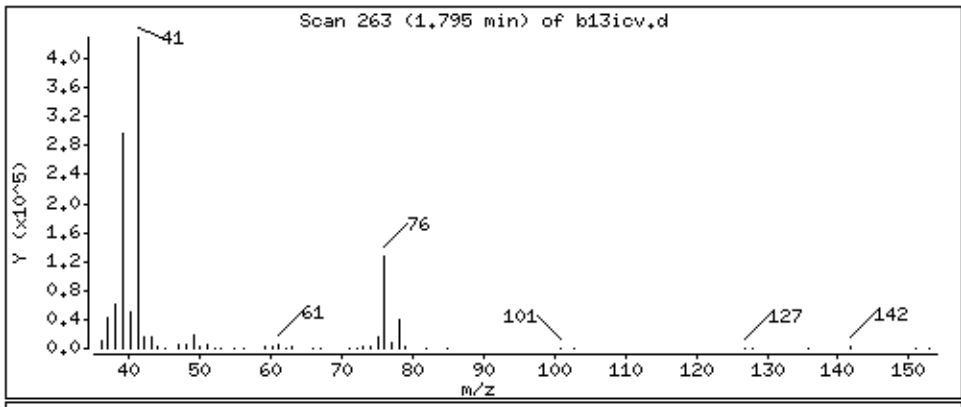
Column phase: DB-624

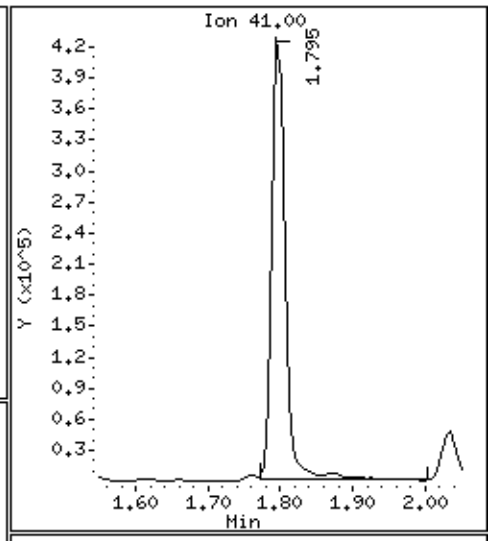
Column diameter: 0.18

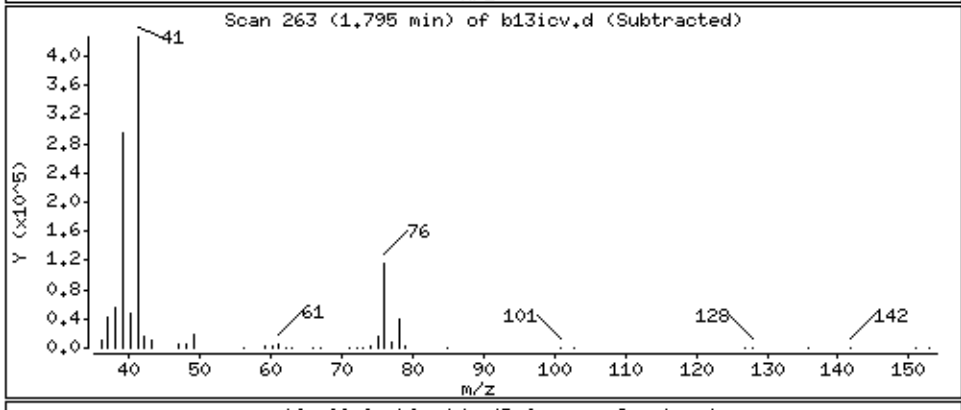
16 allyl chloride

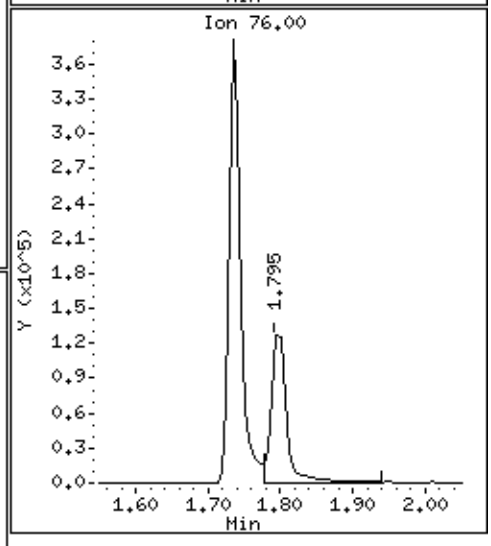
Concentration: 105 ppb

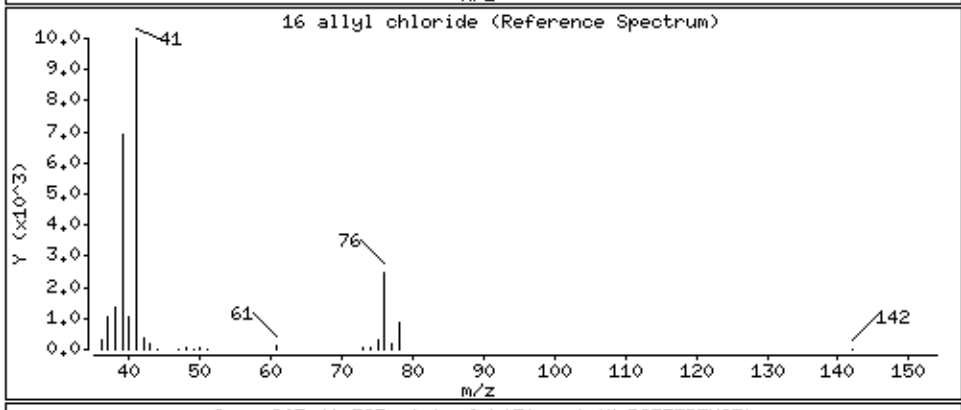
Review Code:

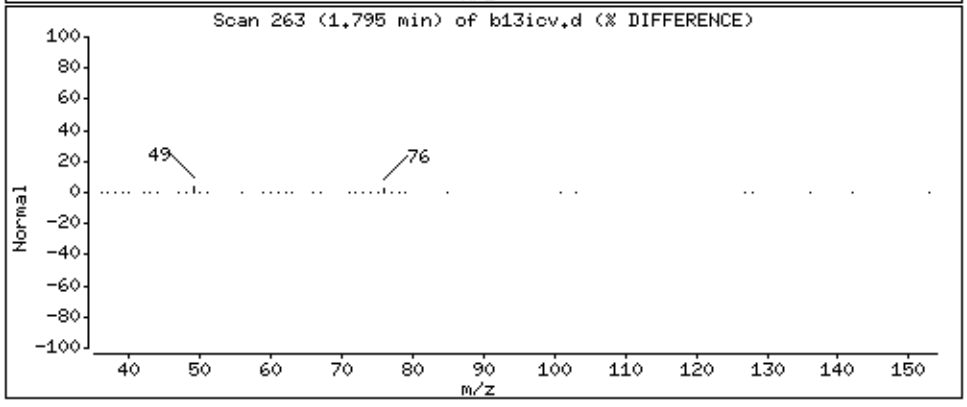












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

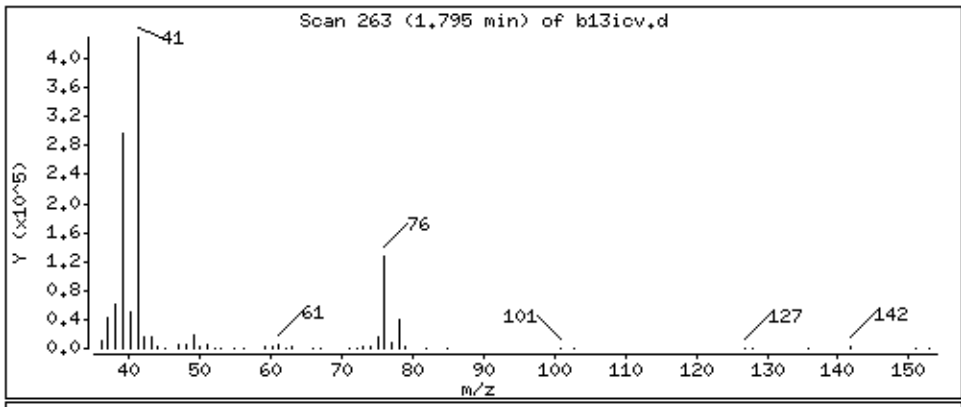
Column phase: DB-624

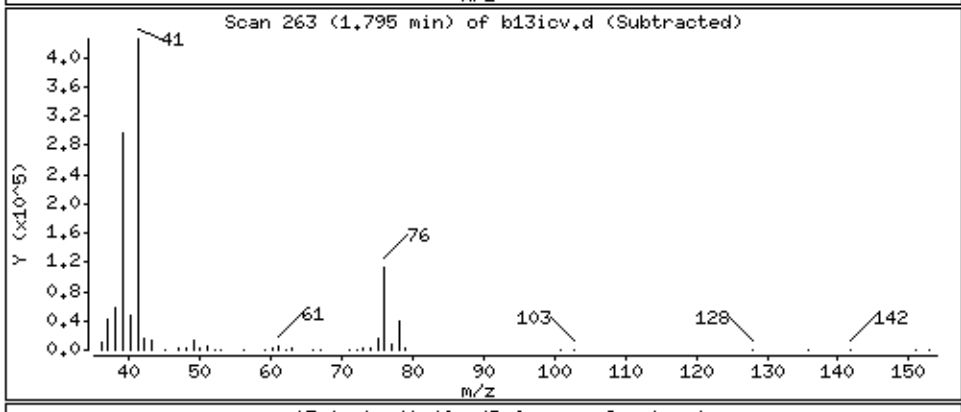
Column diameter: 0.18

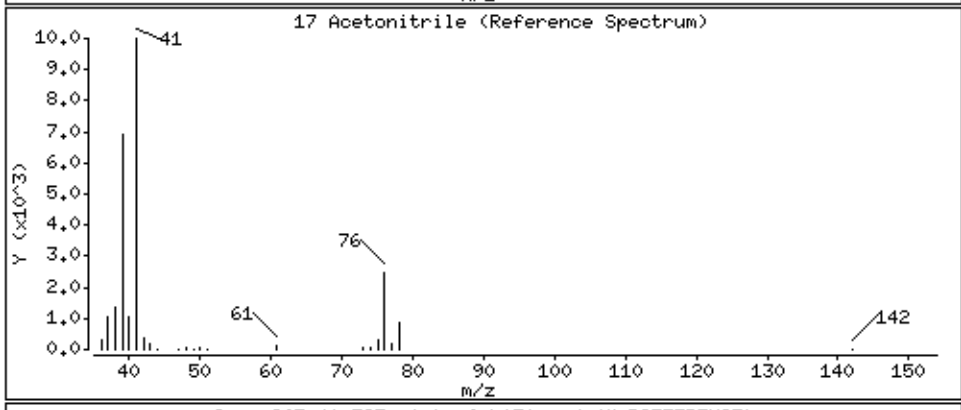
17 Acetonitrile

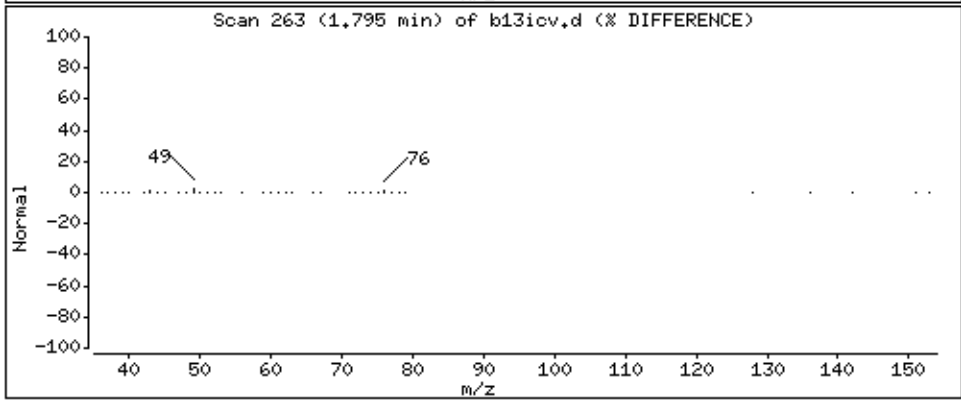
Concentration: 51.5 ppb

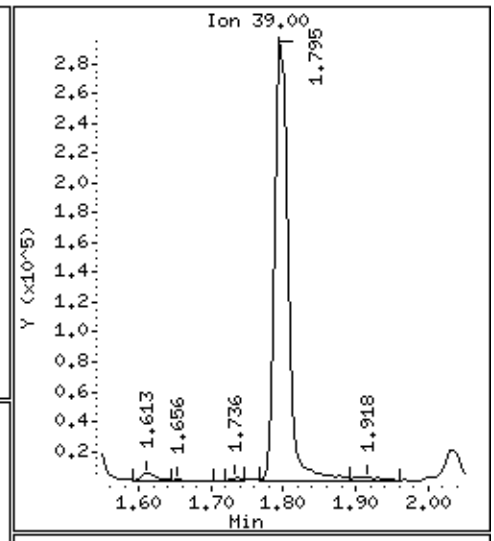
Review Code:

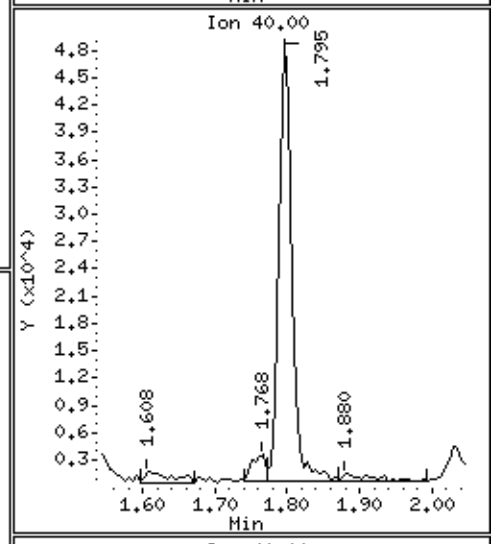


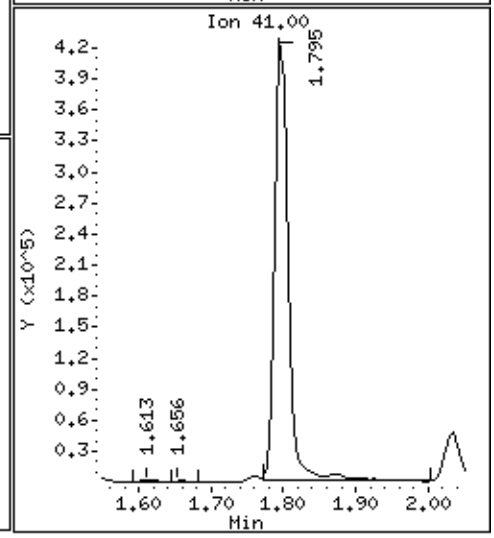












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

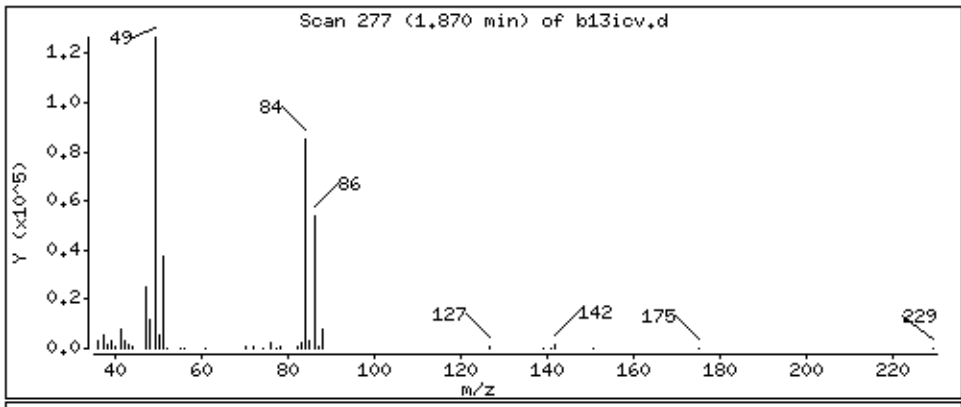
Column phase: DB-624

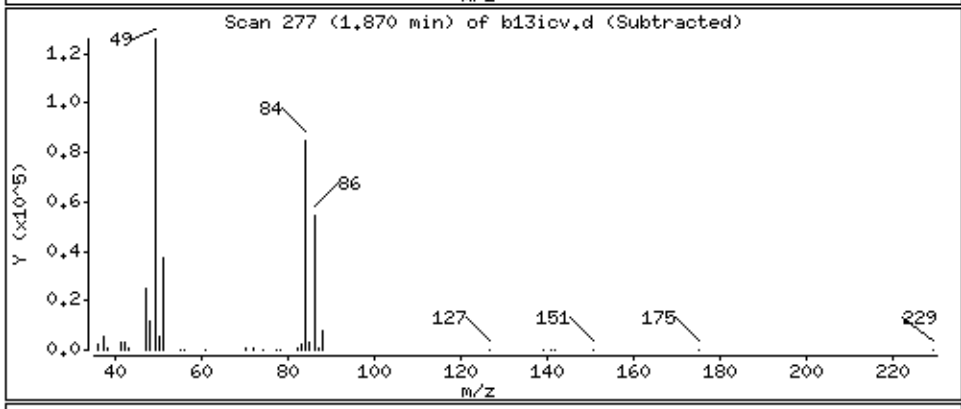
Column diameter: 0.18

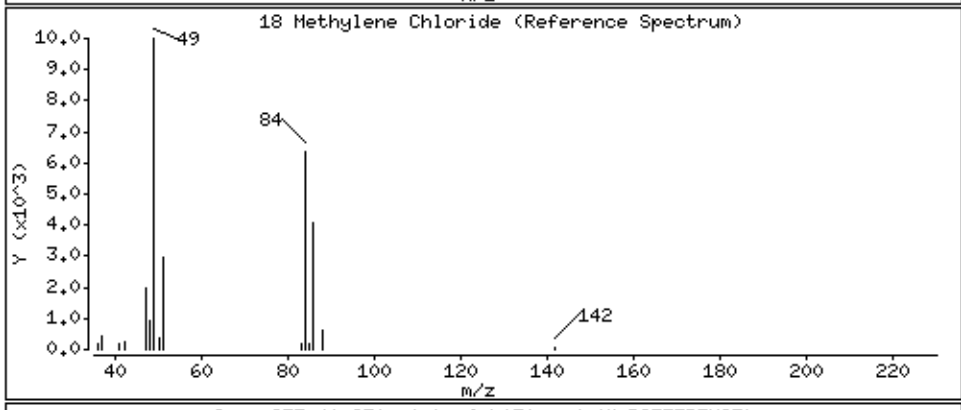
18 Methylene Chloride

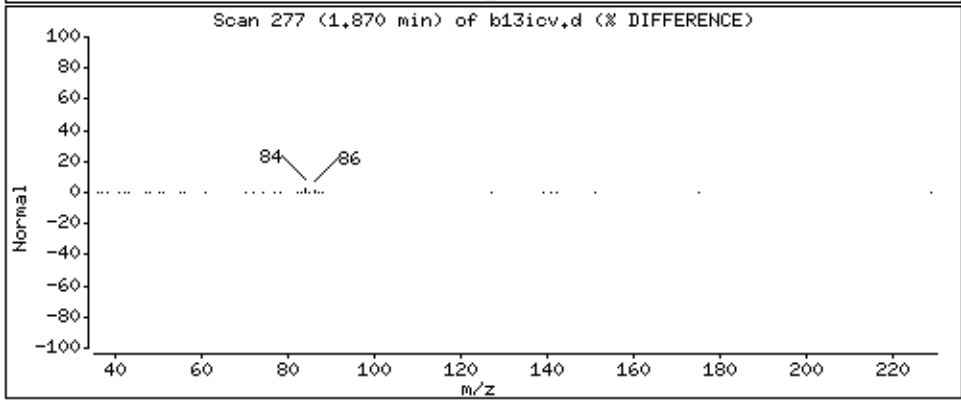
Concentration: 47.0 ppb

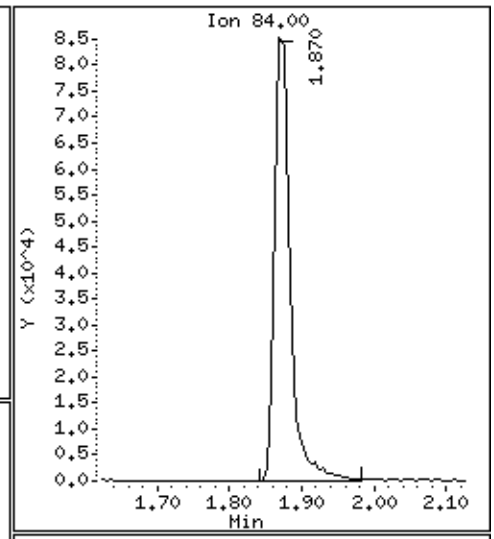
Review Code:

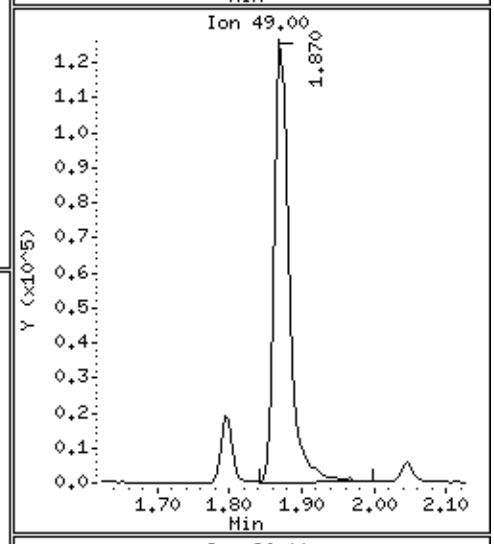


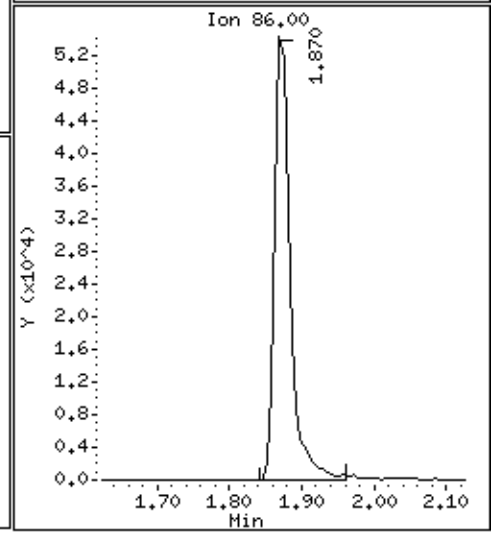












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 23

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

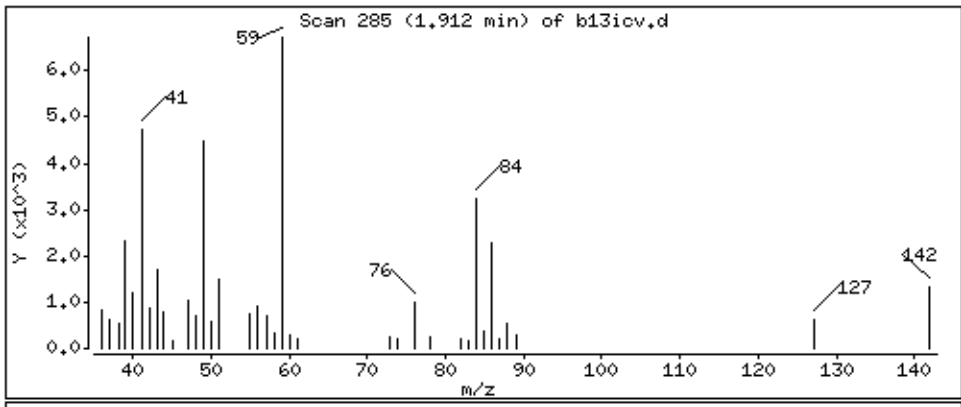
Column phase: DB-624

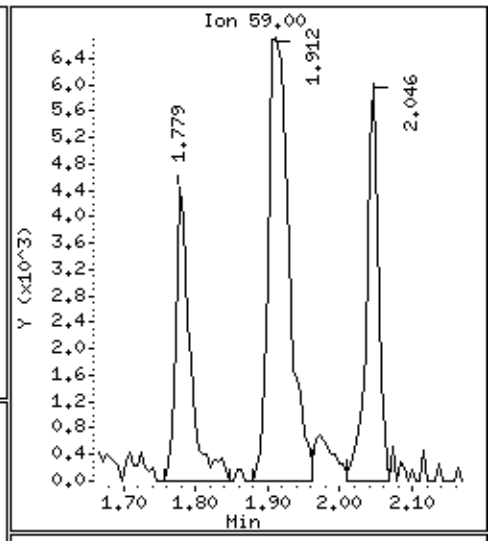
Column diameter: 0.18

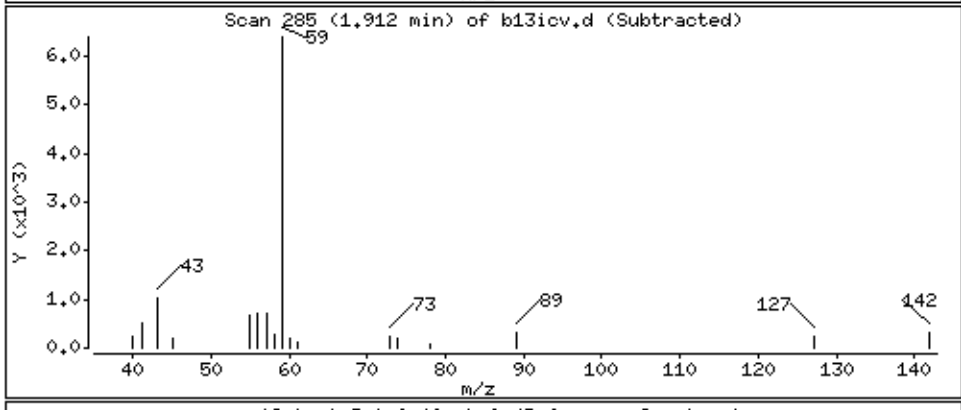
19 tert-Butyl Alcohol

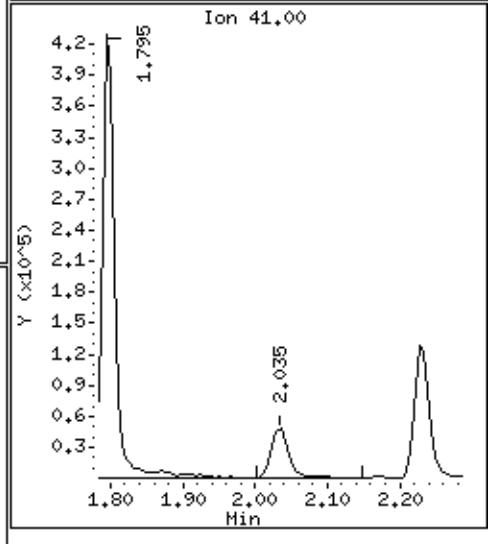
Concentration: 99.9 ppb

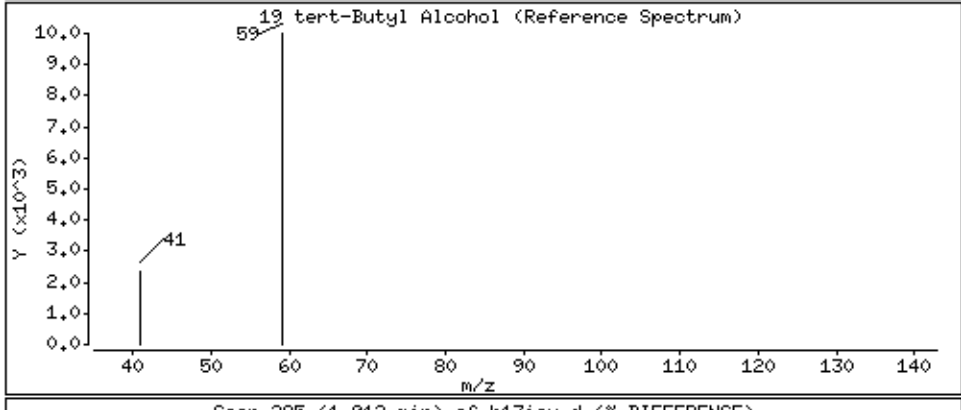
Review Code:

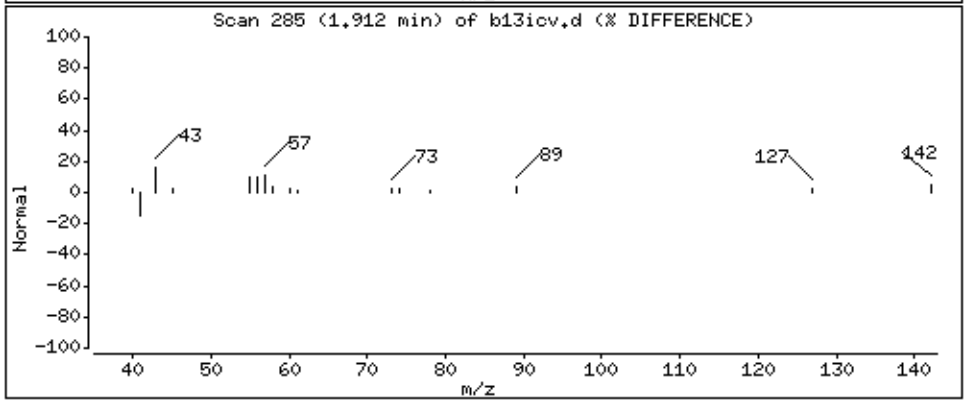












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

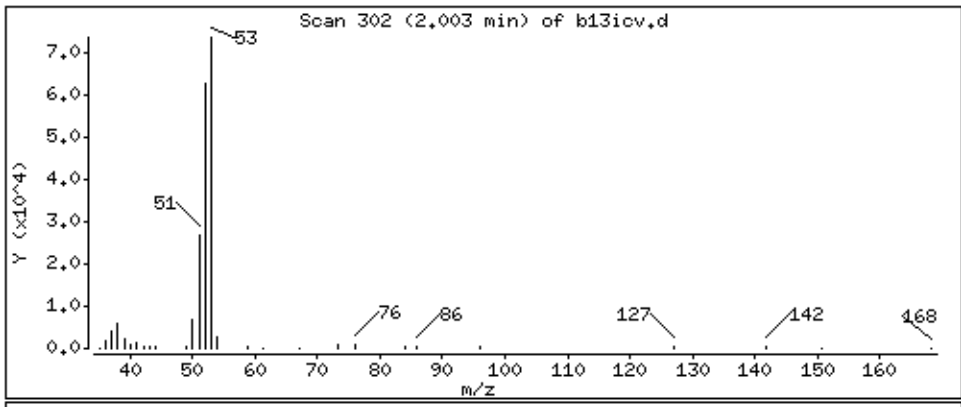
Column phase: DB-624

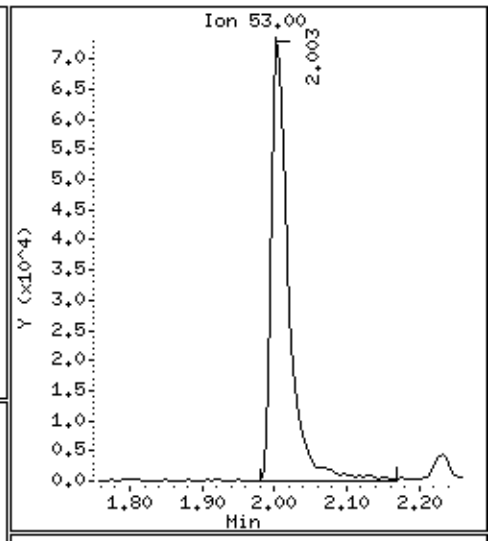
Column diameter: 0.18

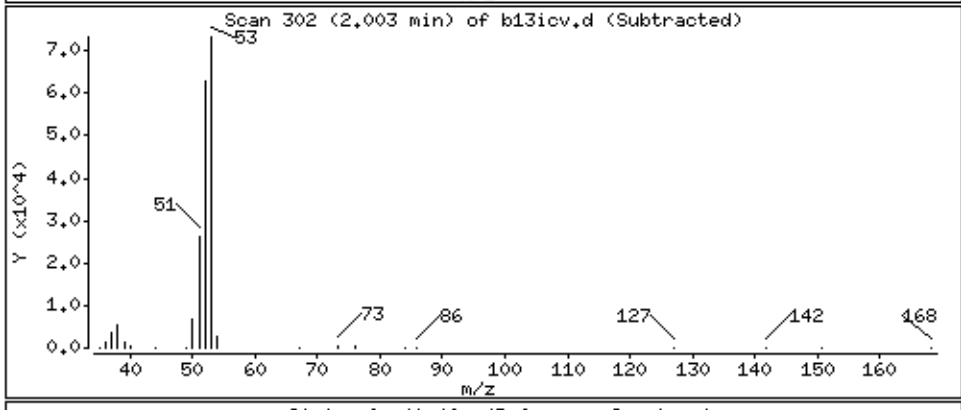
20 Acrylonitrile

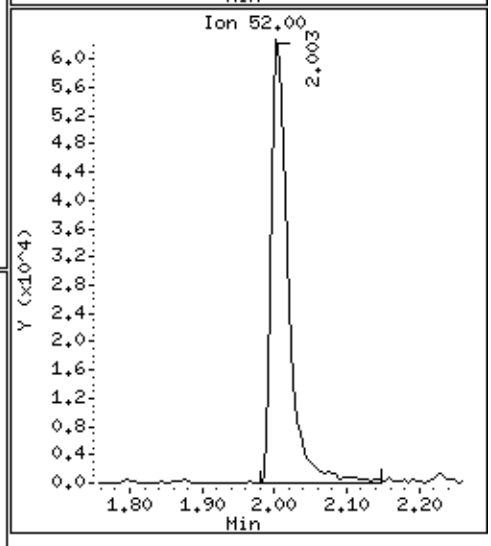
Concentration: 189 ppb

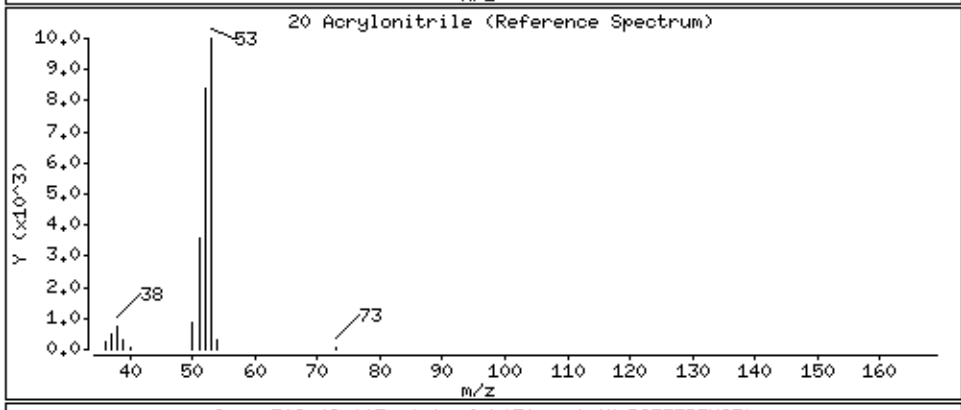
Review Code:

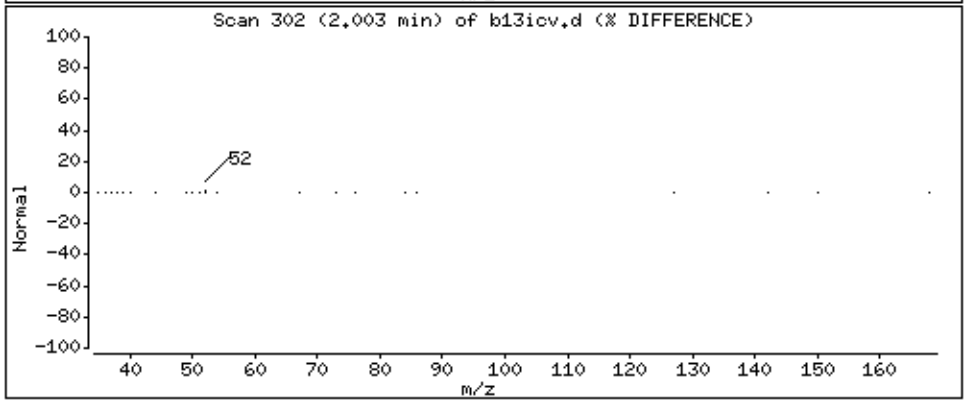












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 25

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

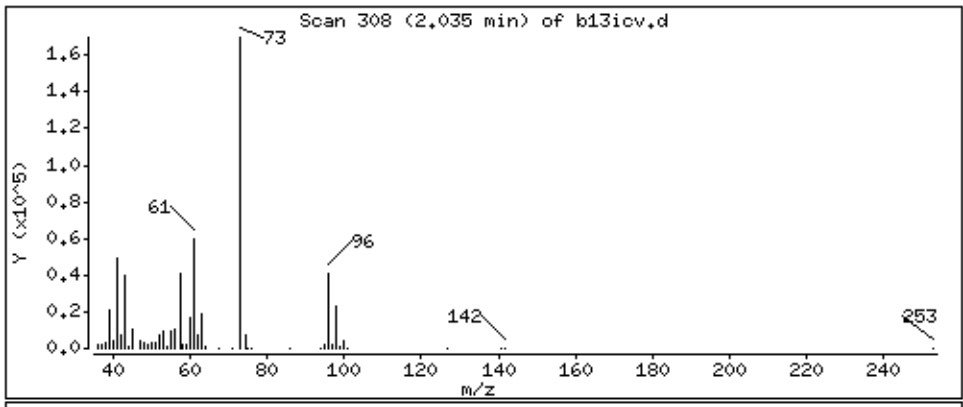
Column phase: DB-624

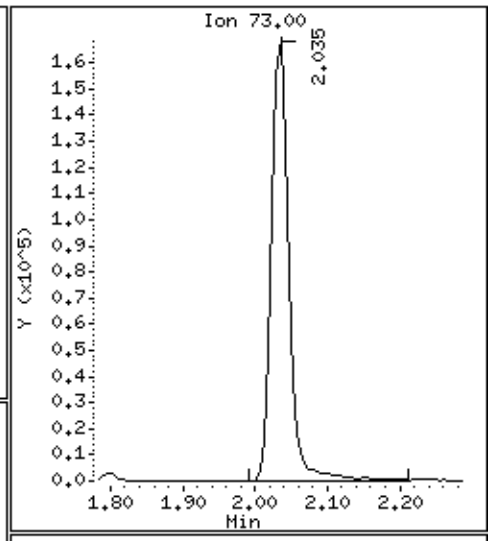
Column diameter: 0.18

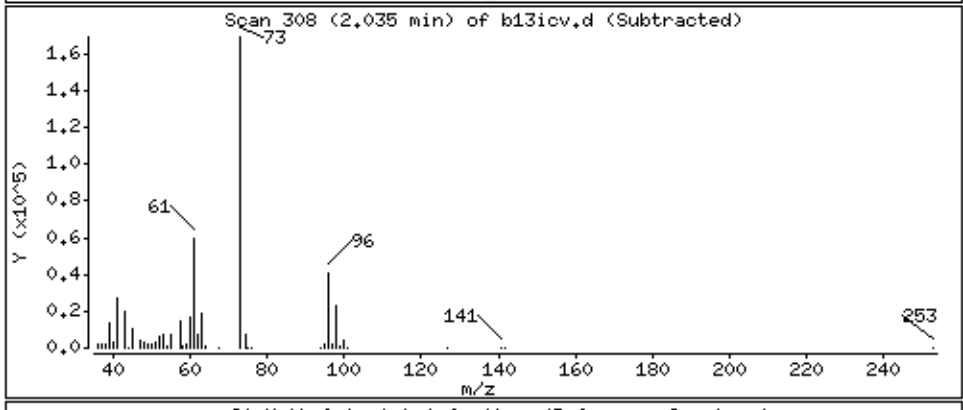
21 Methyl-tert-butyl ether

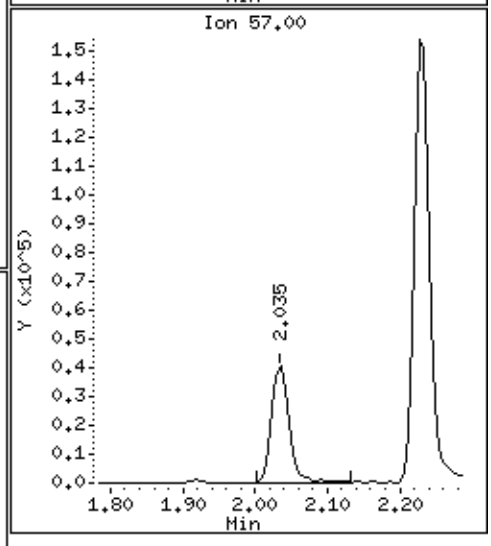
Concentration: 51.5 ppb

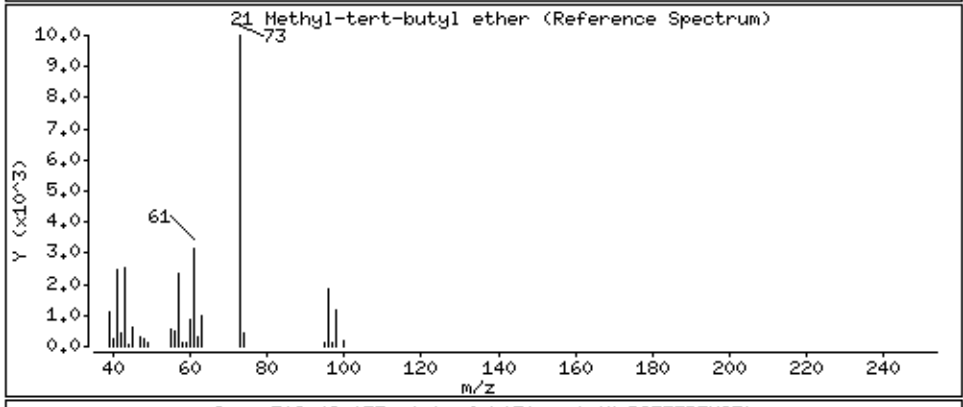
Review Code:

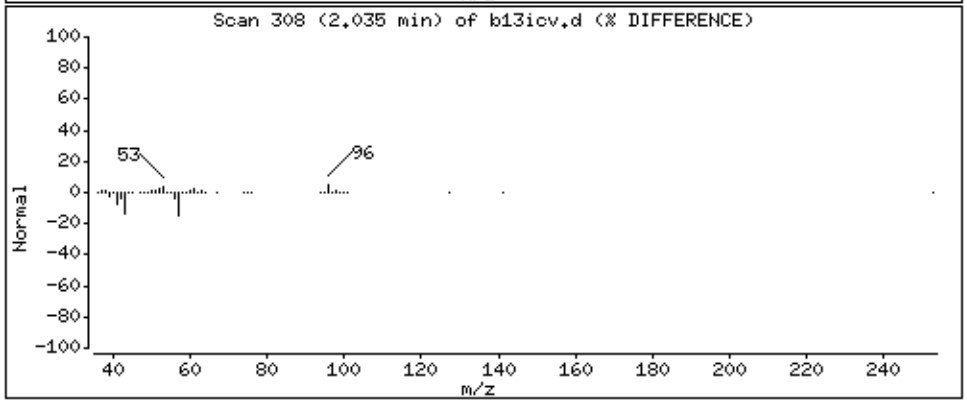












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 26

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

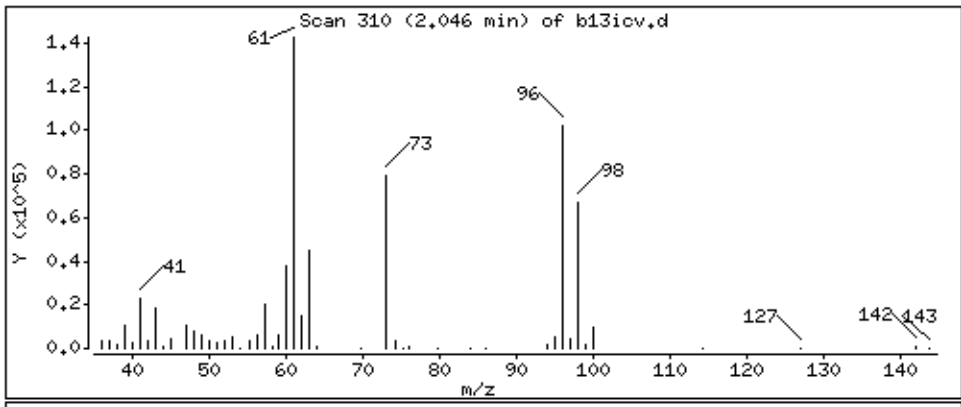
Column phase: DB-624

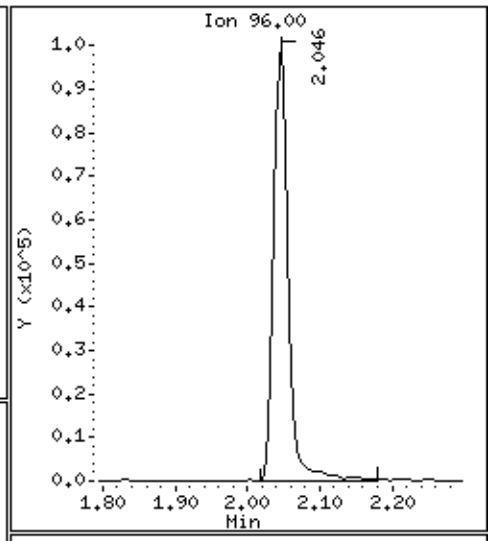
Column diameter: 0.18

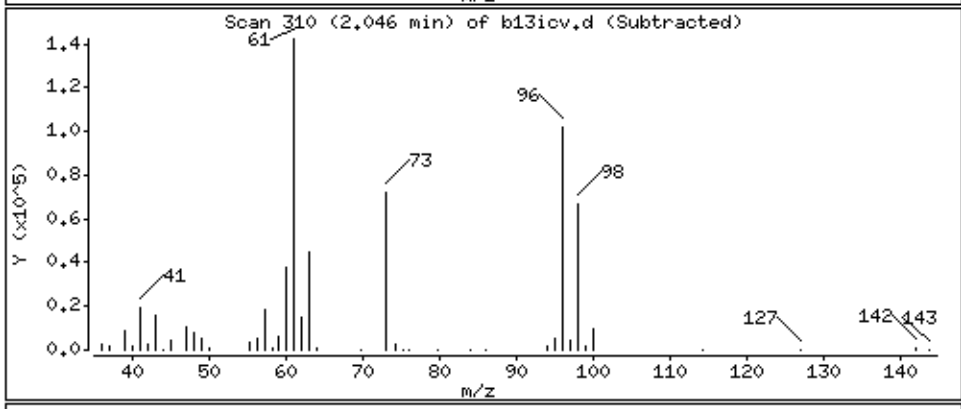
22 1,2-Dichloroethene (trans)

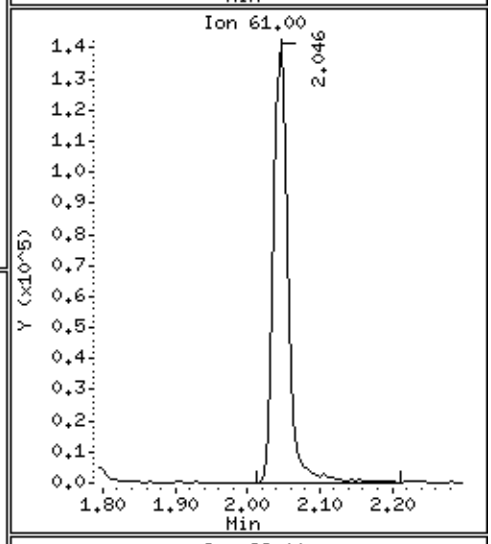
Concentration: 50.8 ppb

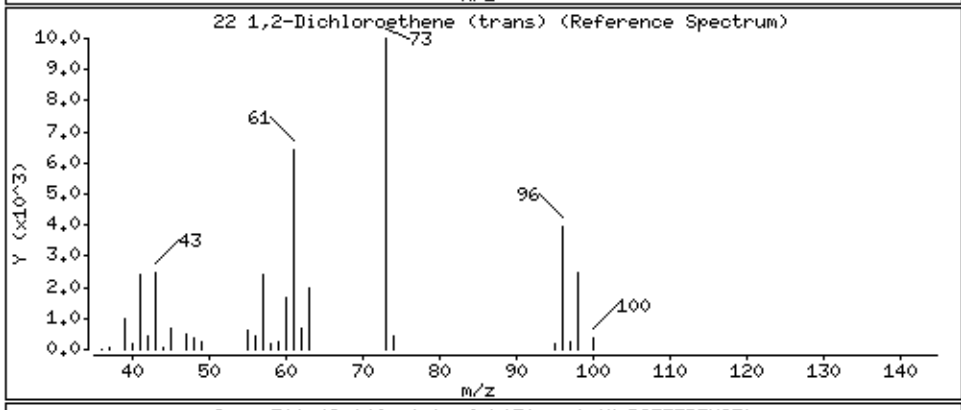
Review Code:

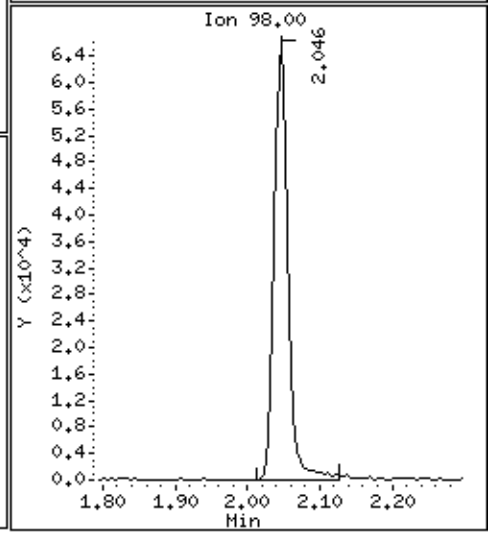


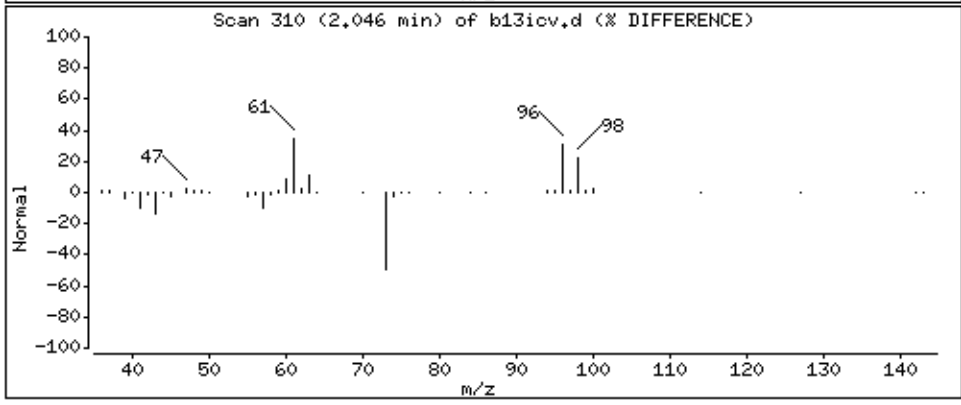












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

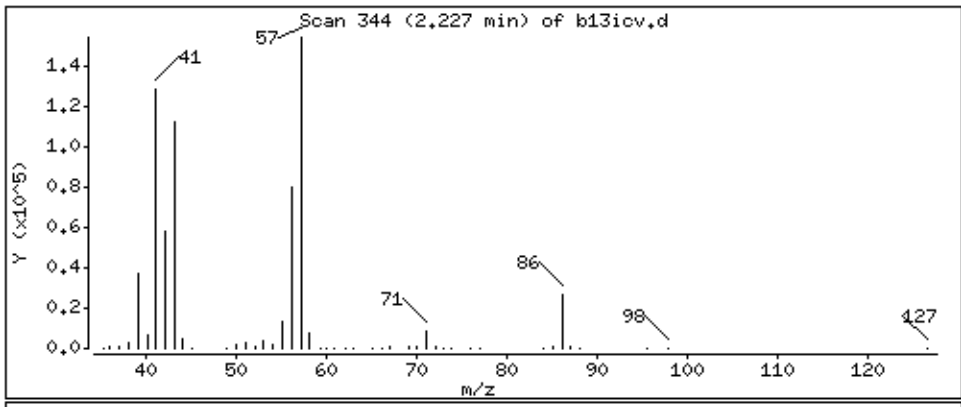
Column phase: DB-624

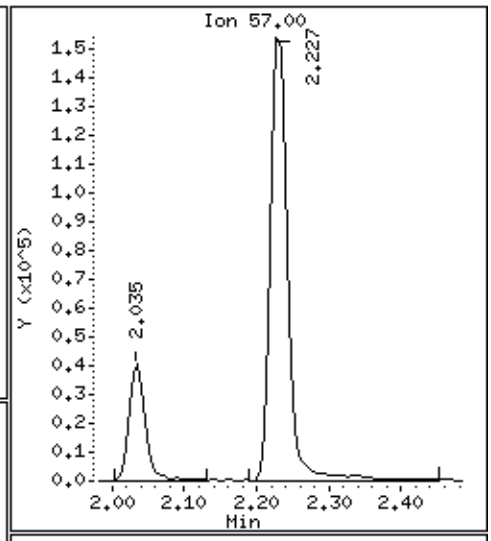
Column diameter: 0.18

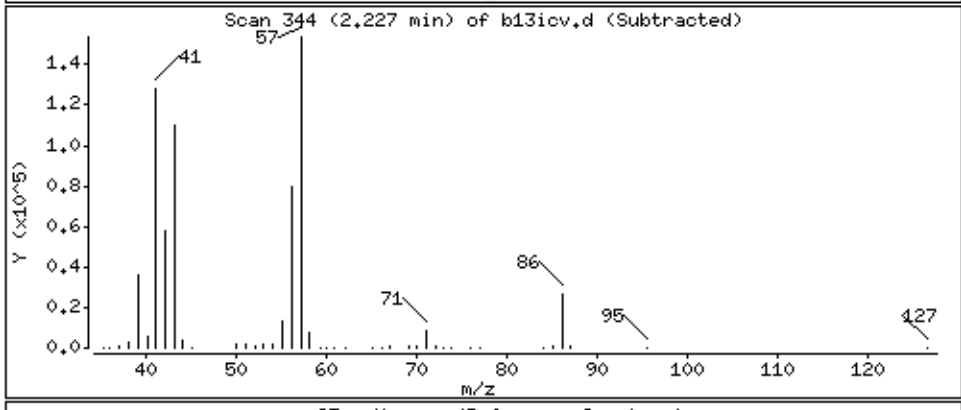
23 n-Hexane

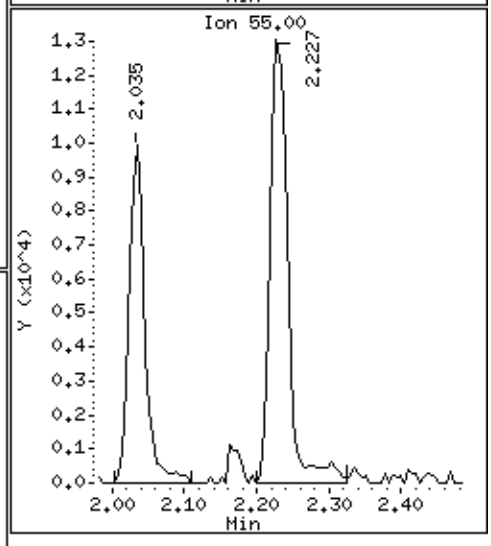
Concentration: 44.7 ppb

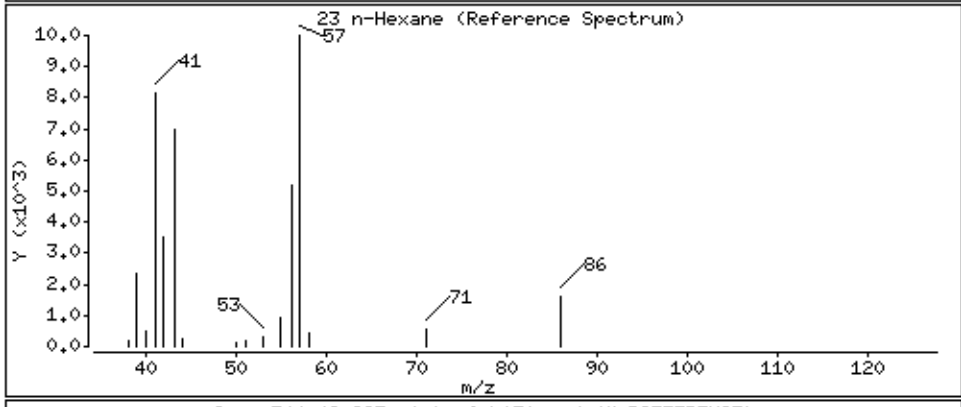
Review Code:

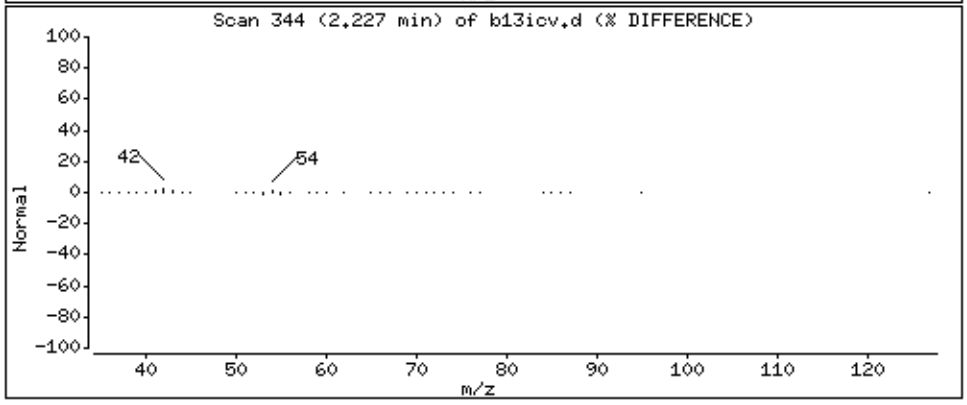












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

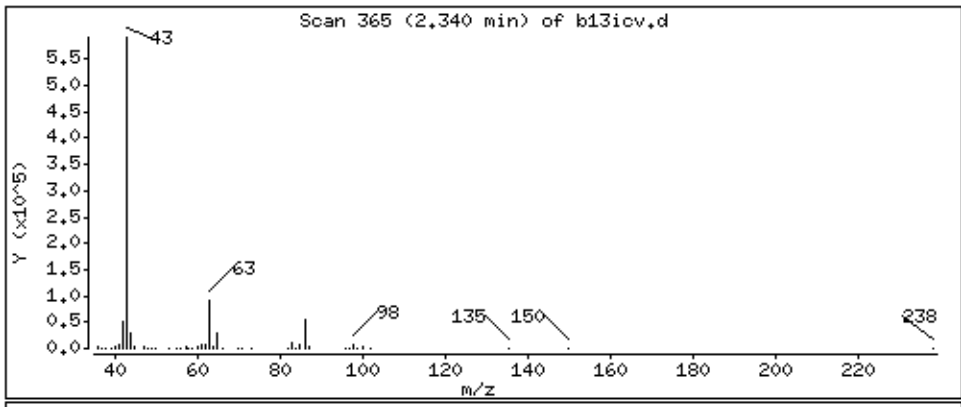
Column phase: DB-624

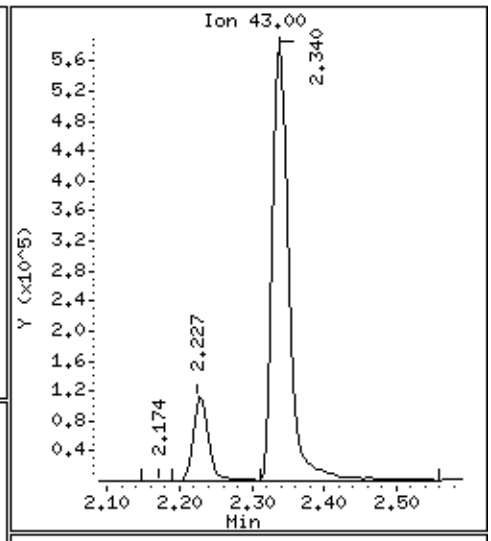
Column diameter: 0.18

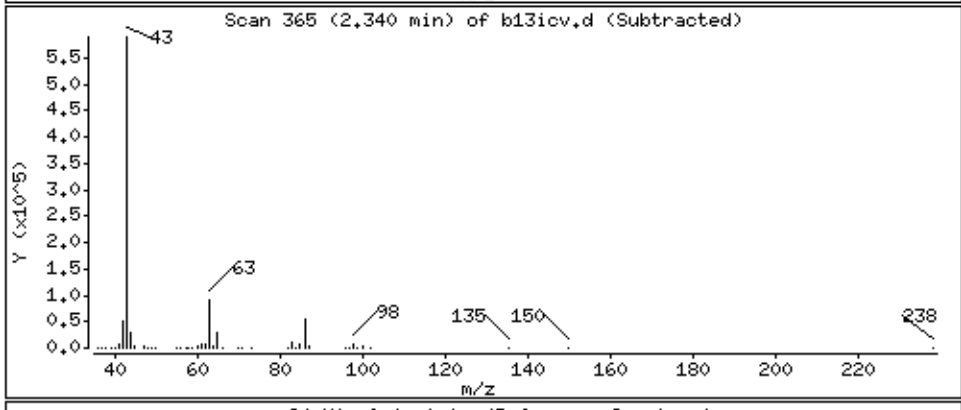
24 Vinyl Acetate

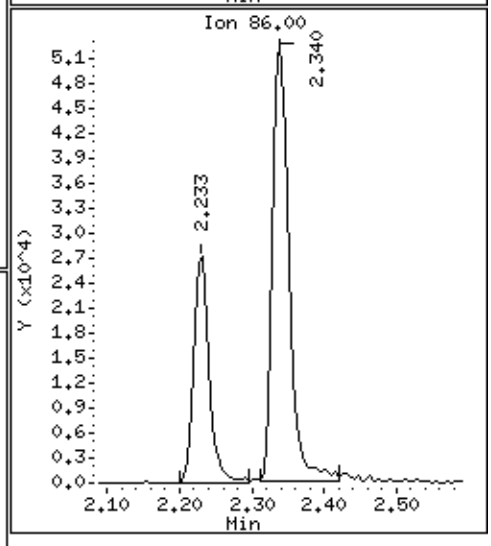
Concentration: 209 ppb

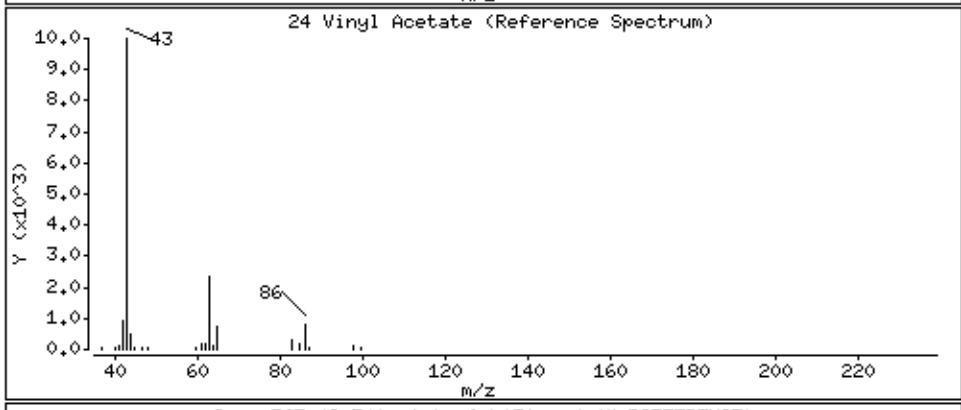
Review Code:

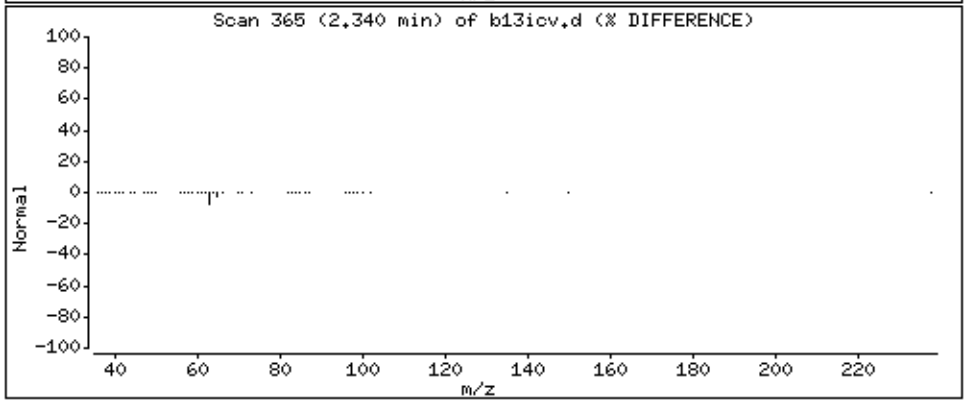












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

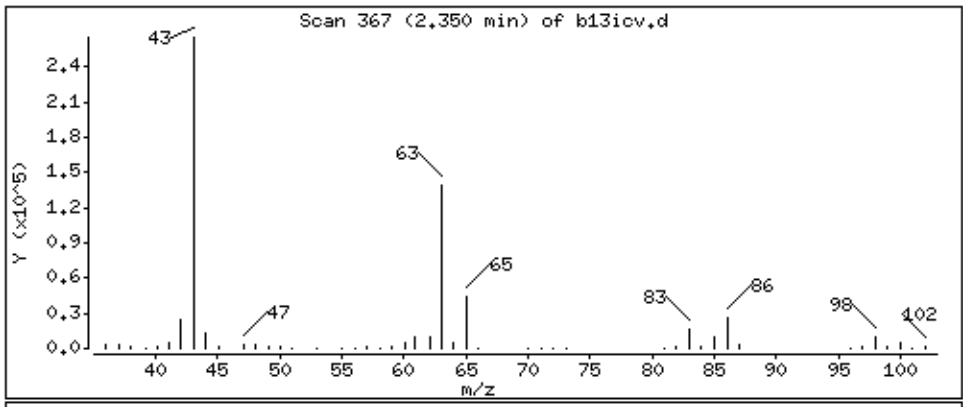
Column phase: DB-624

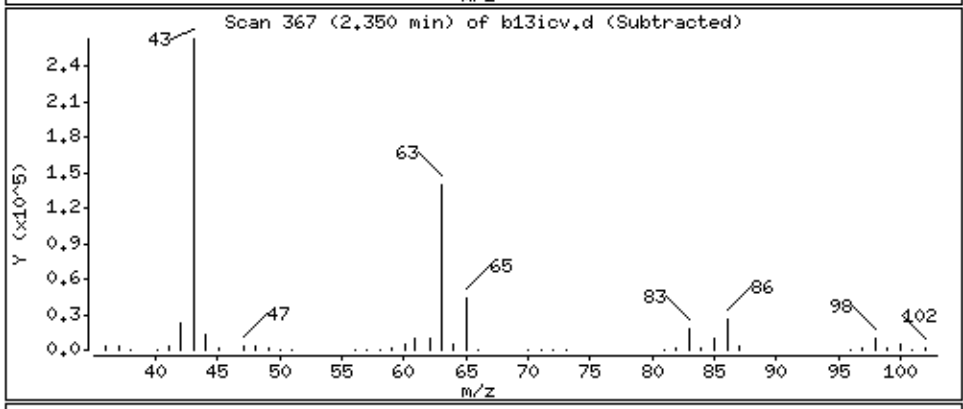
Column diameter: 0.18

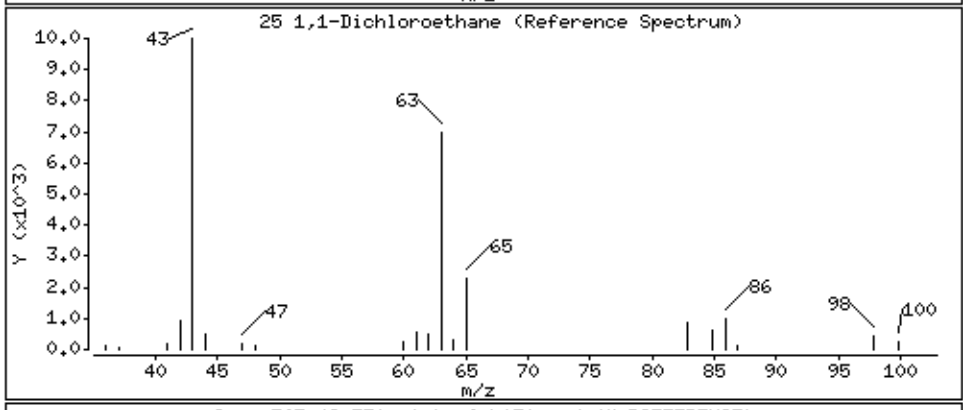
25 1,1-Dichloroethane

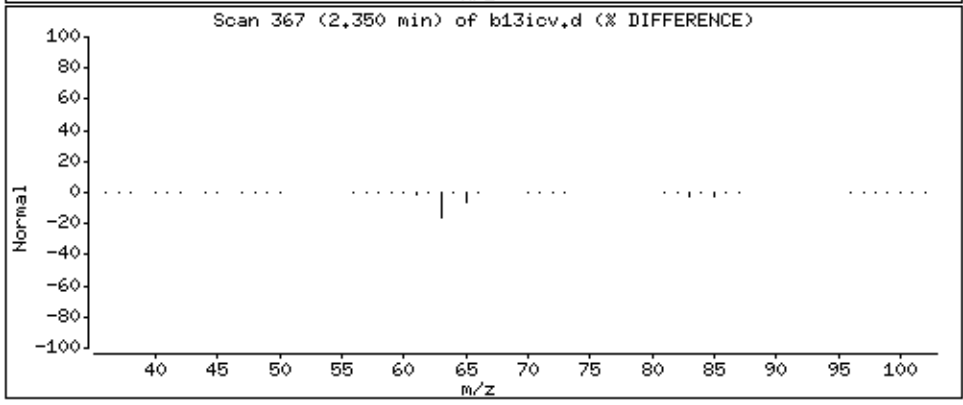
Concentration: 48.6 ppb

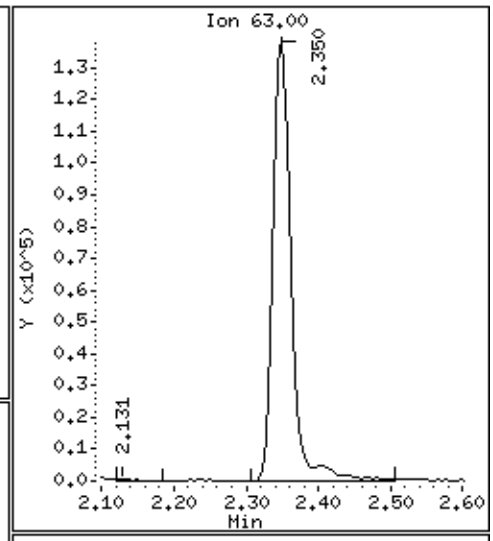
Review Code:

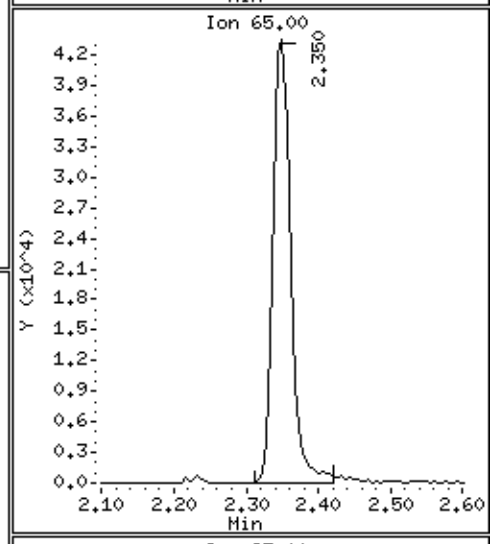


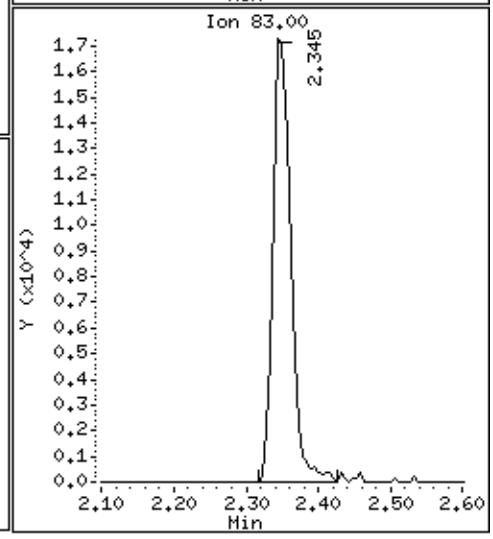












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

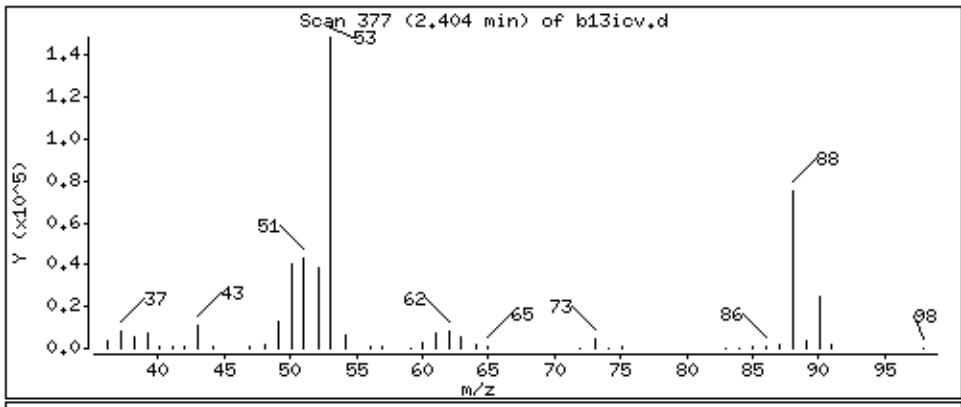
Column phase: DB-624

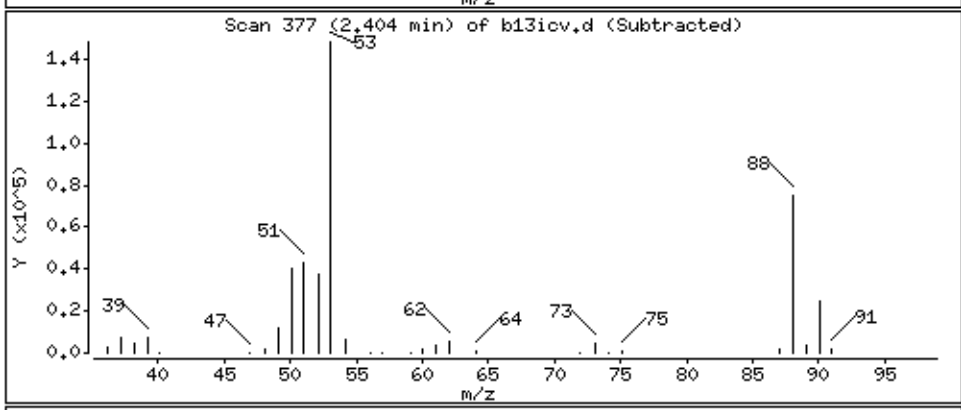
Column diameter: 0.18

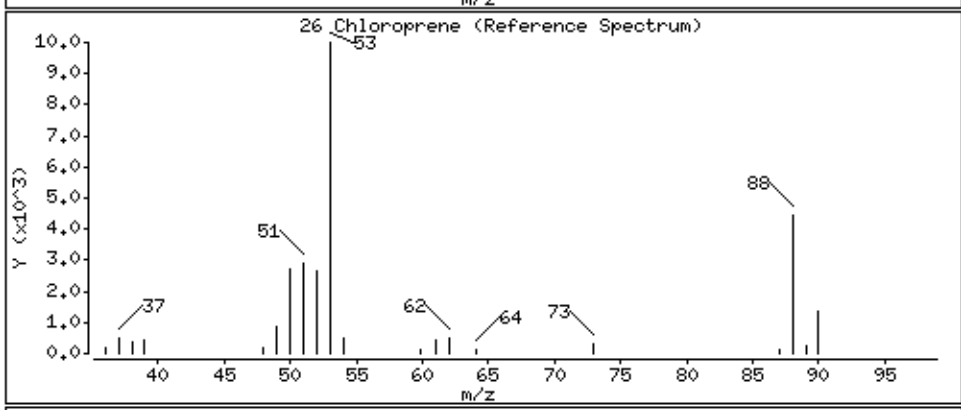
26 Chloroprene

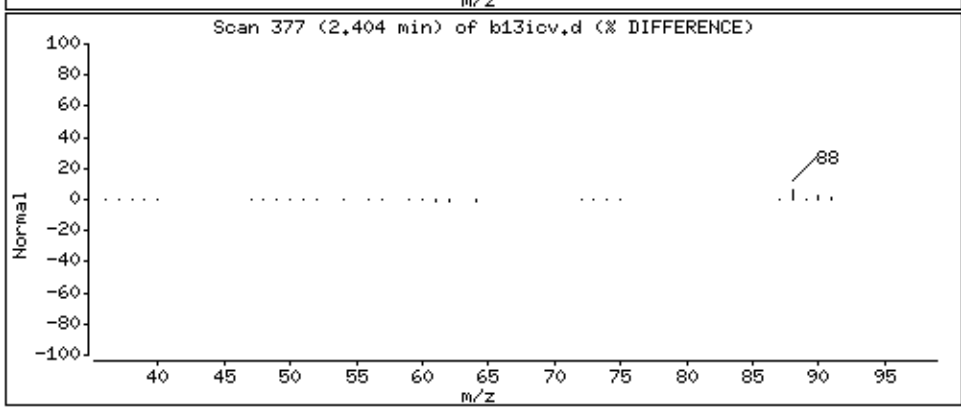
Concentration: 54.1 ppb

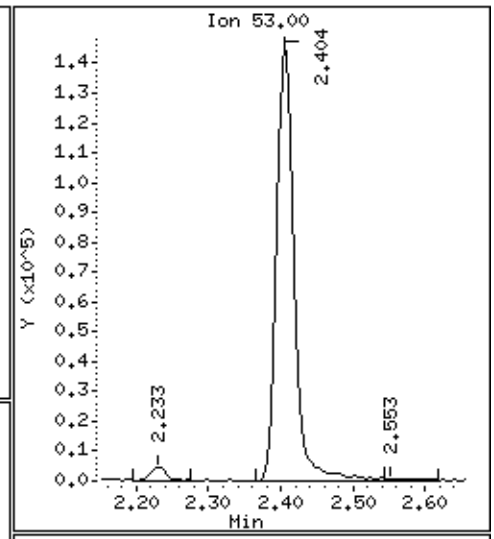
Review Code:

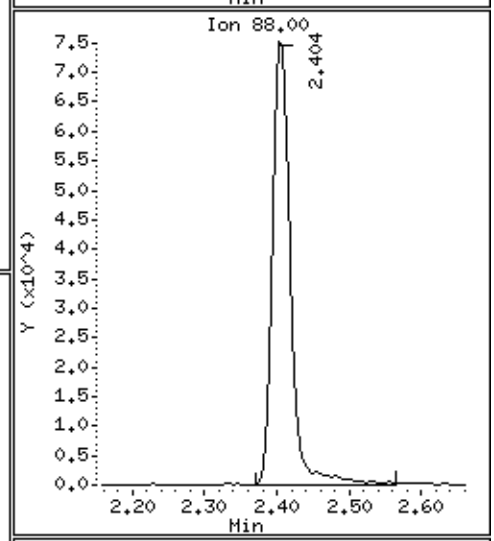


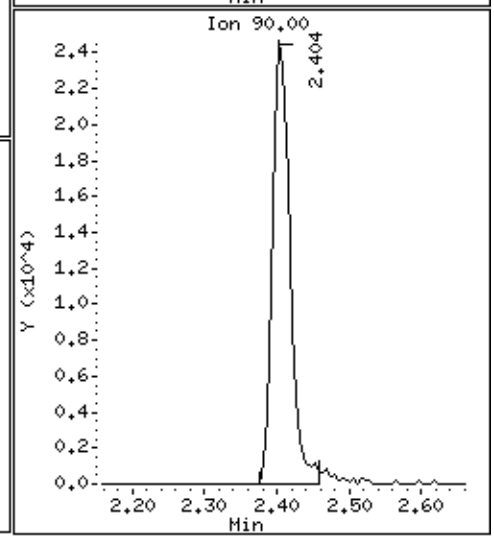












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

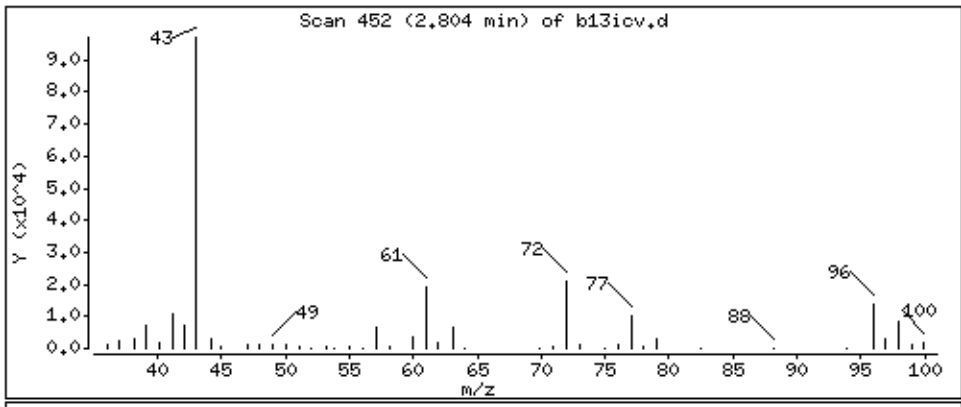
Column phase: DB-624

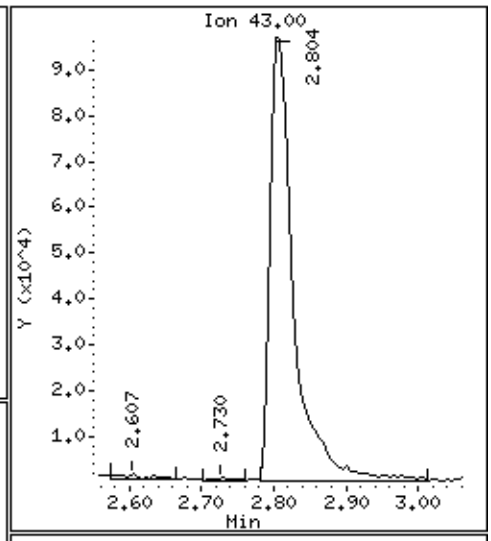
Column diameter: 0.18

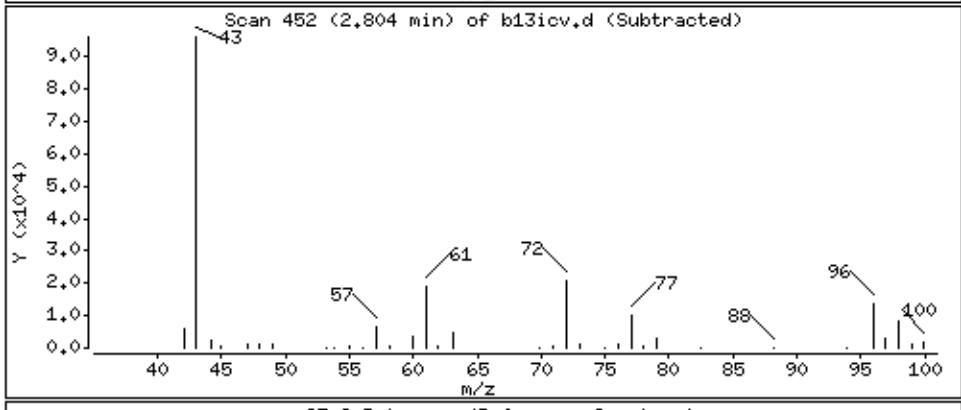
27 2-Butanone

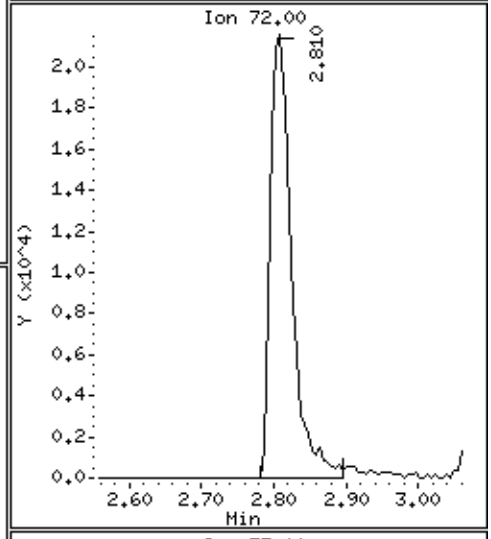
Concentration: 248 ppb

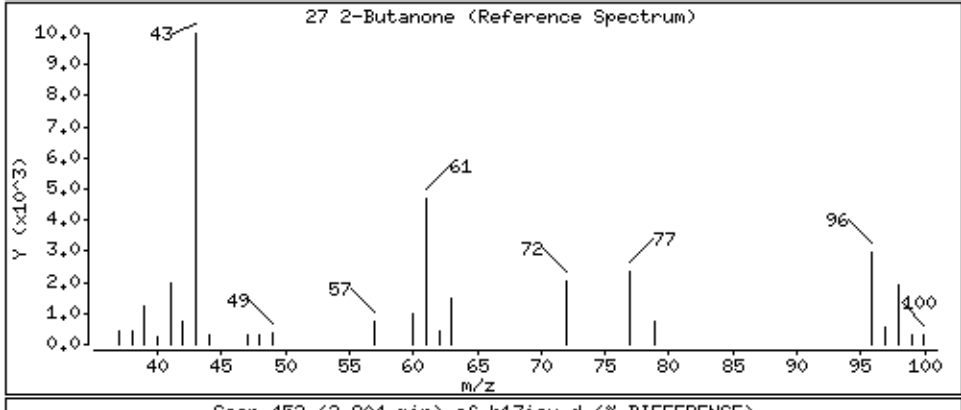
Review Code:

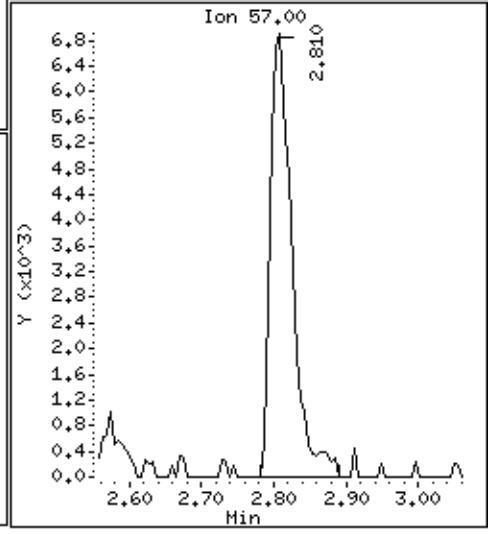


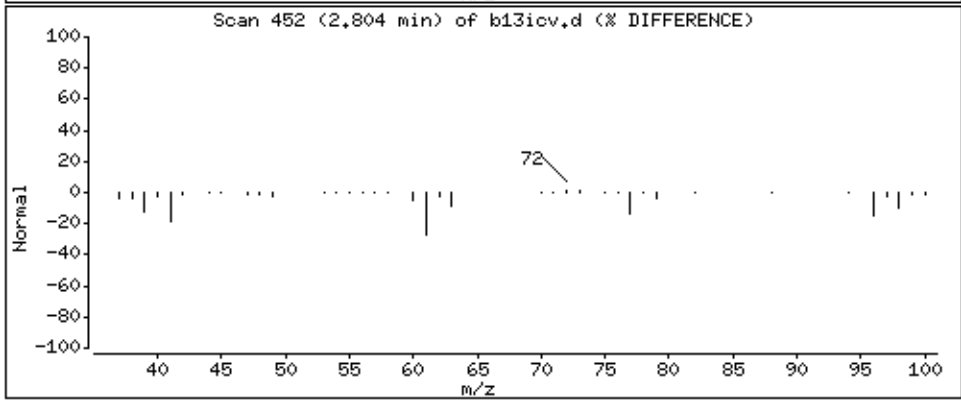












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

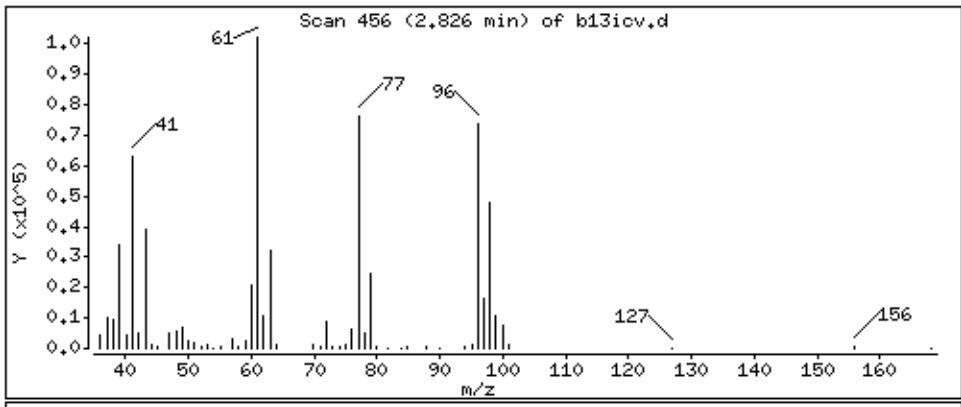
Column phase: DB-624

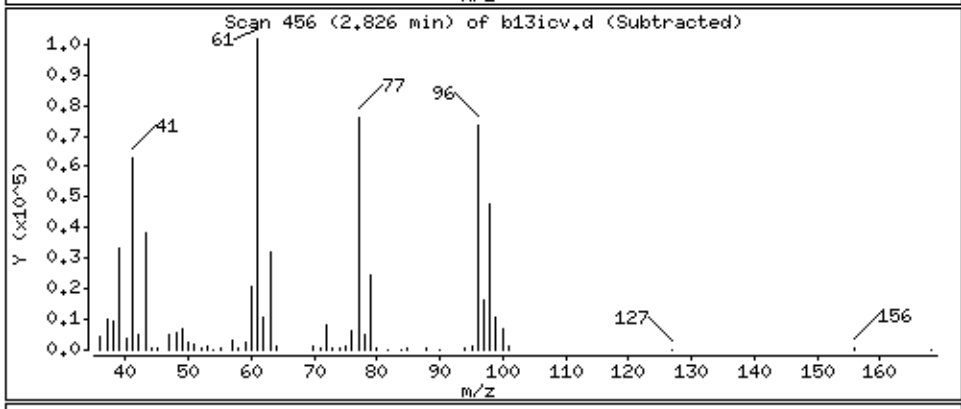
Column diameter: 0.18

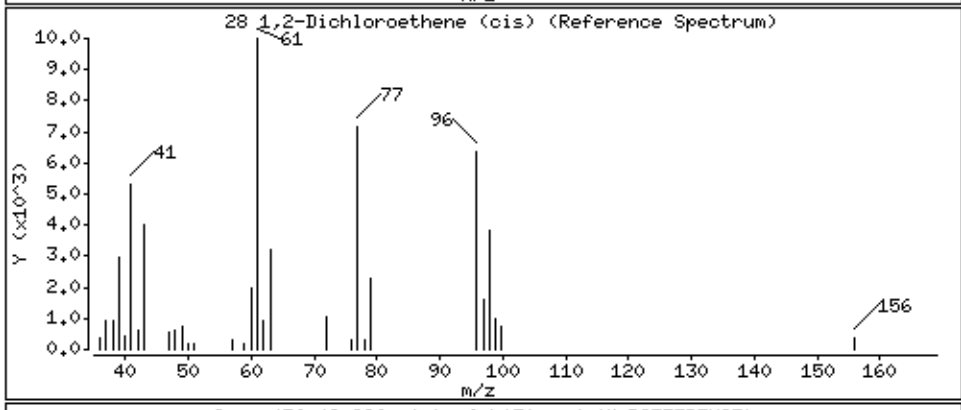
28 1,2-Dichloroethene (cis)

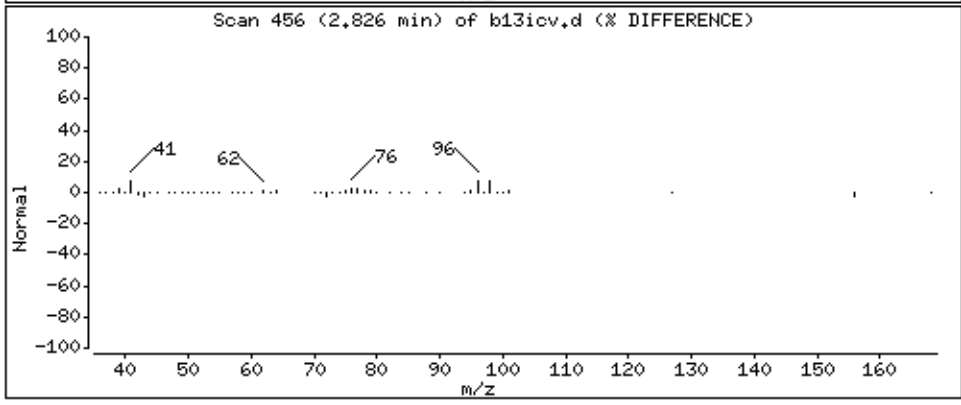
Concentration: 52.0 ppb

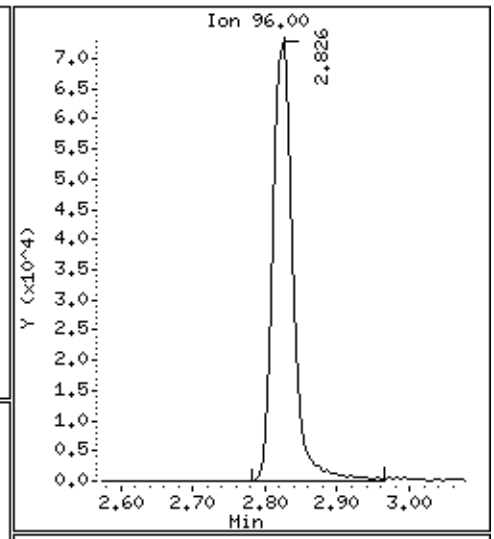
Review Code:

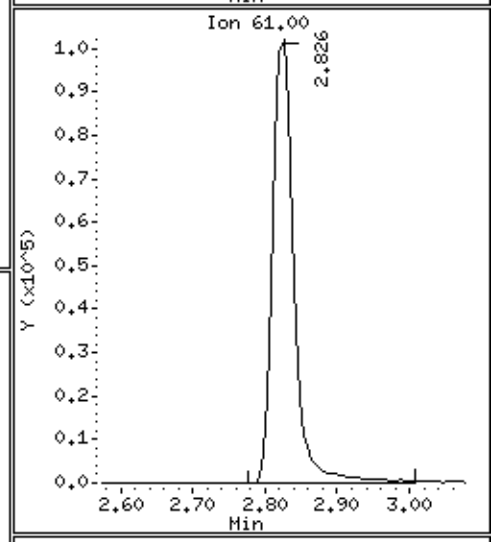


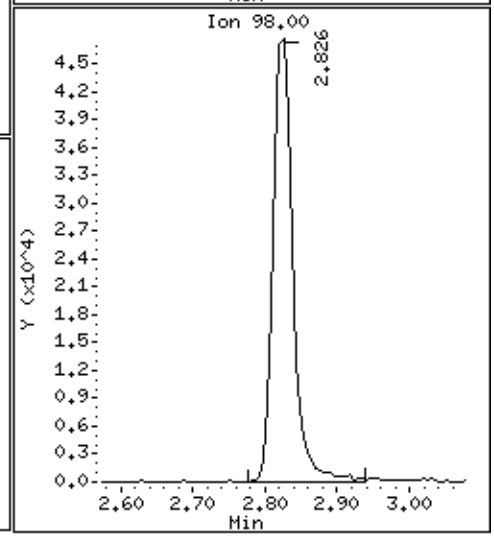












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

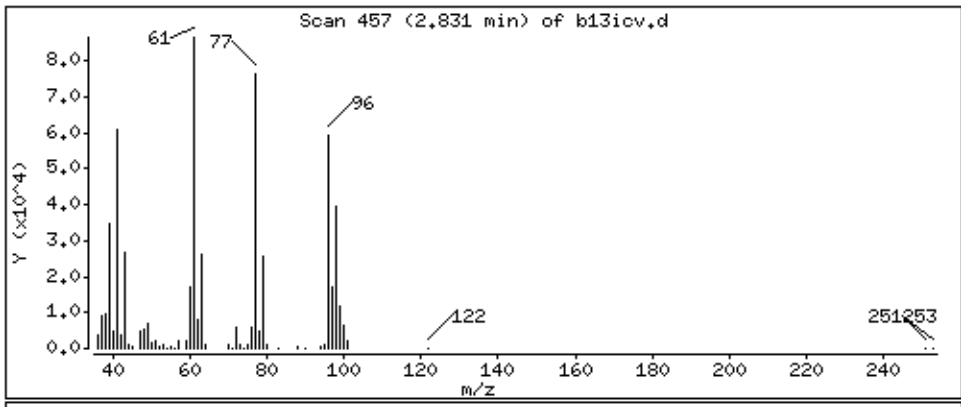
Column phase: DB-624

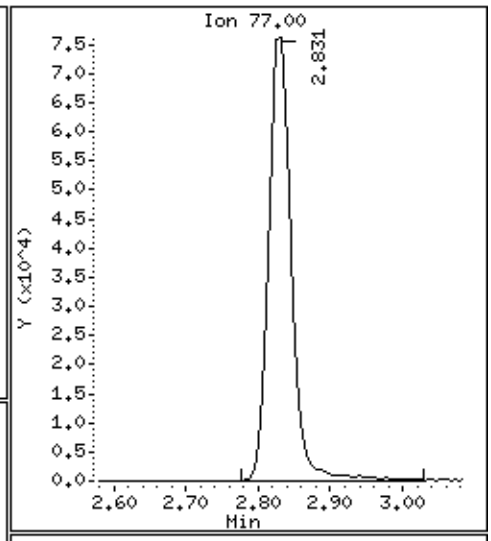
Column diameter: 0.18

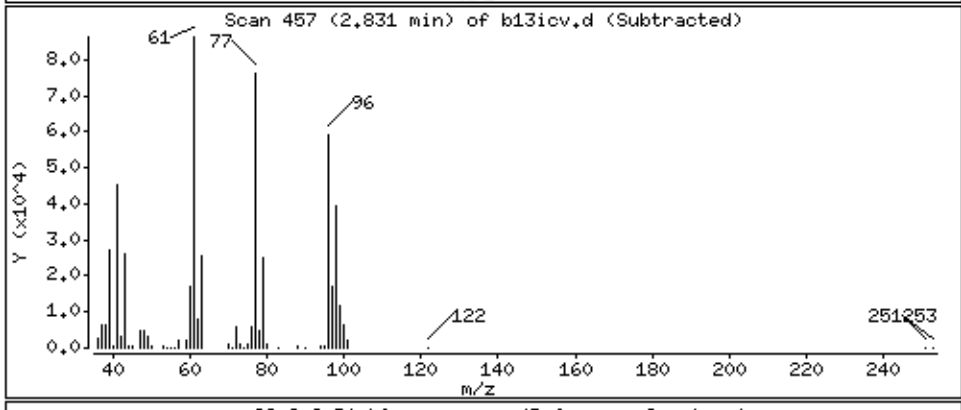
29 2,2-Dichloropropane

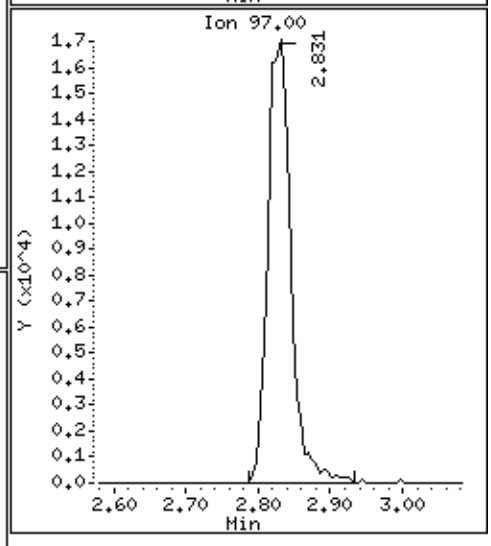
Concentration: 53.8 ppb

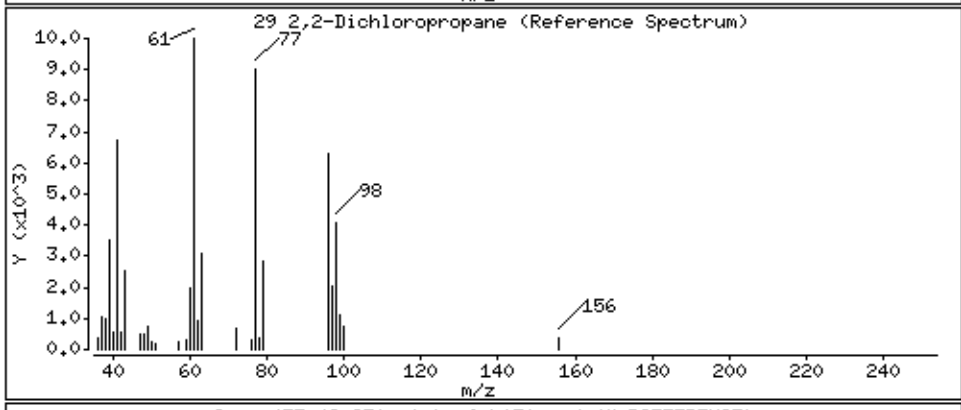
Review Code:

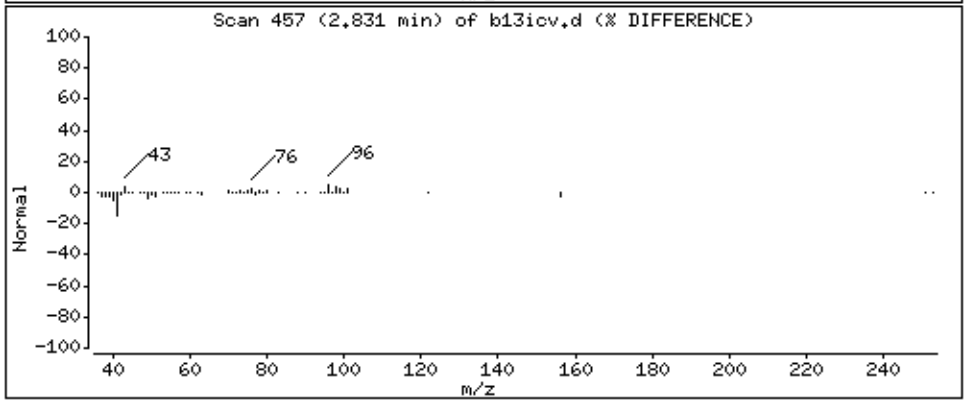












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

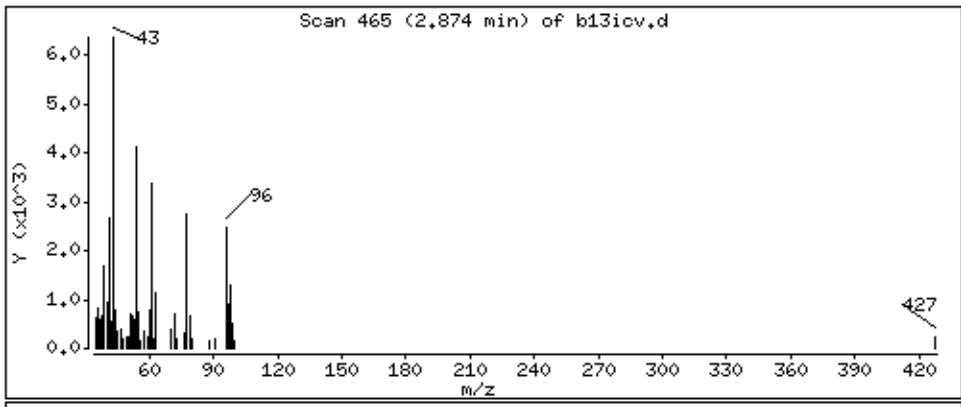
Column phase: DB-624

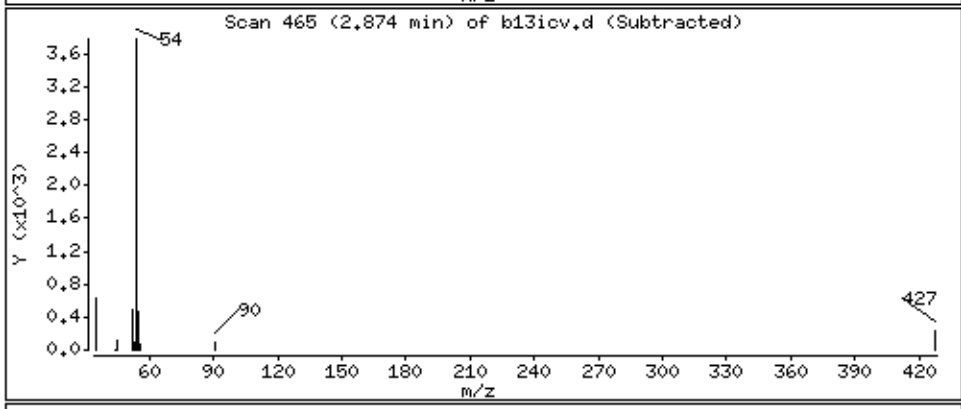
Column diameter: 0.18

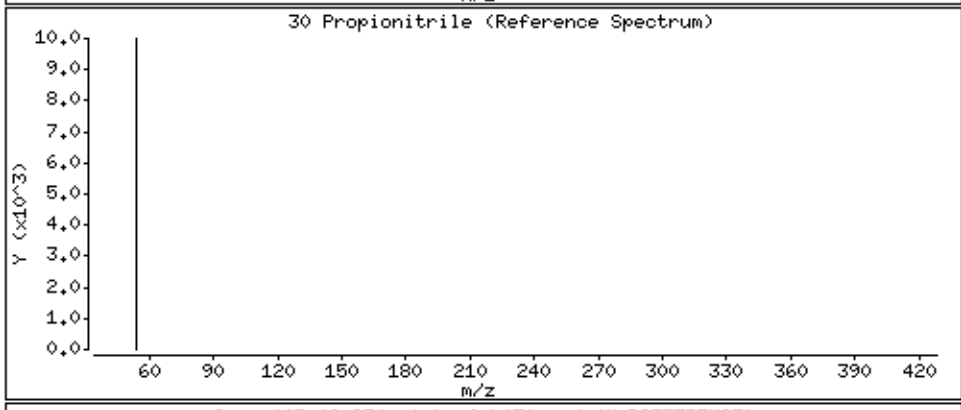
30 Propionitrile

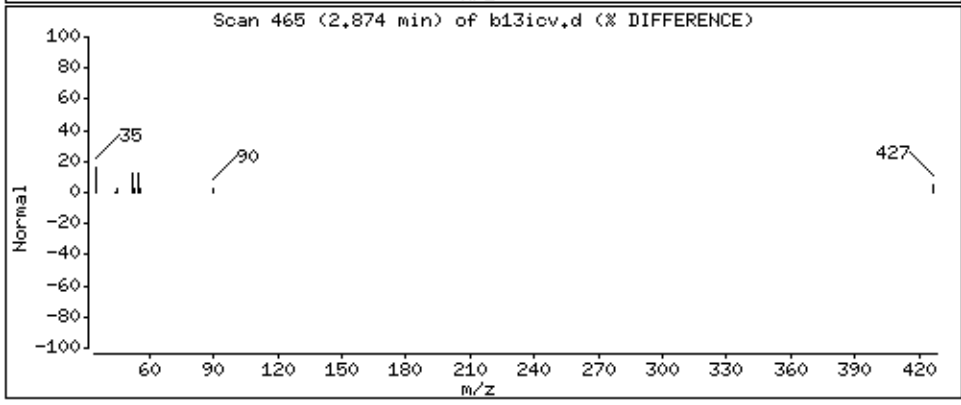
Concentration: 46.0 ppb

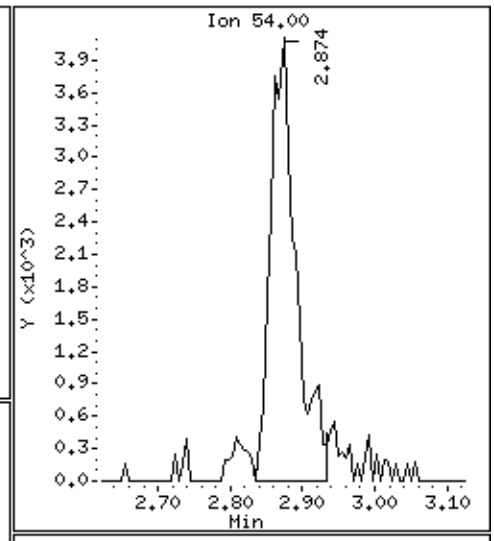
Review Code:

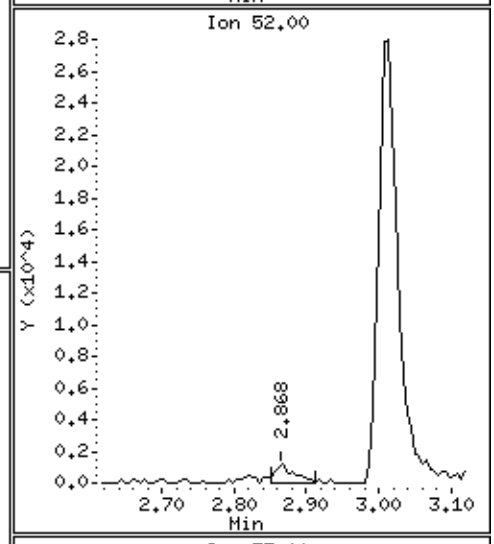


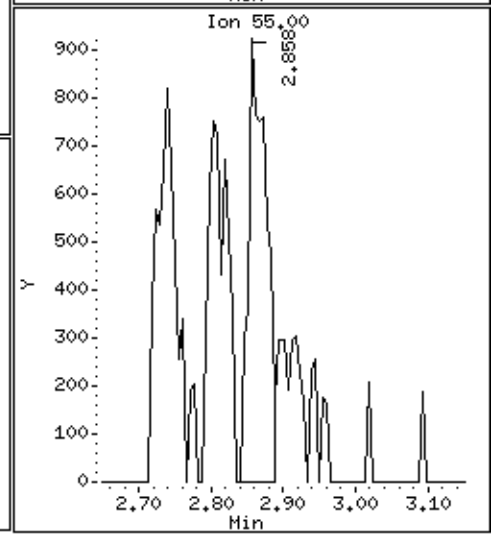












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 35

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

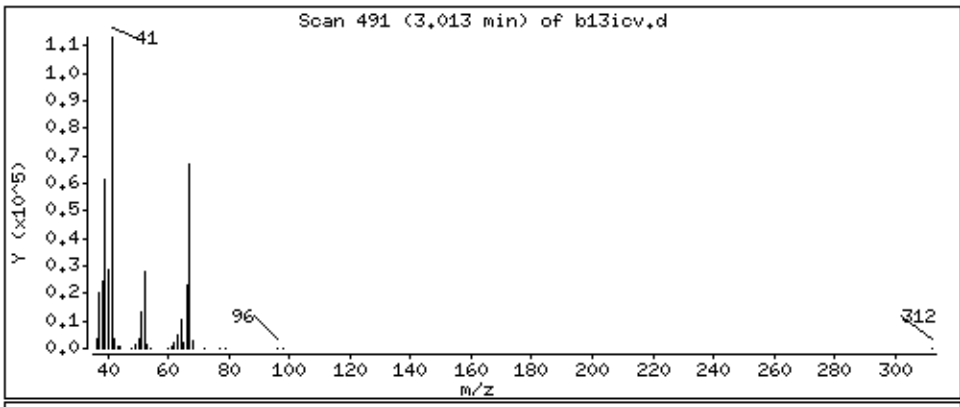
Column phase: DB-624

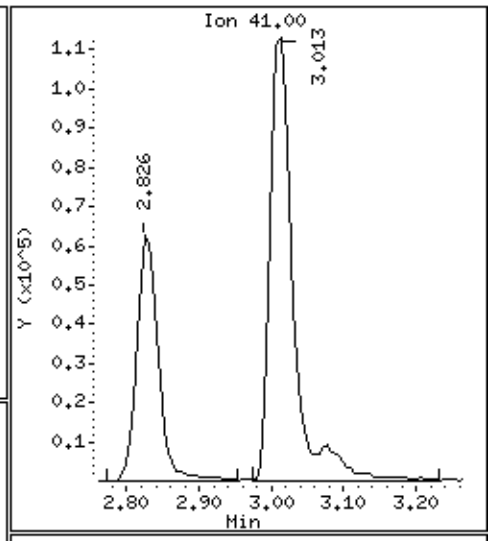
Column diameter: 0.18

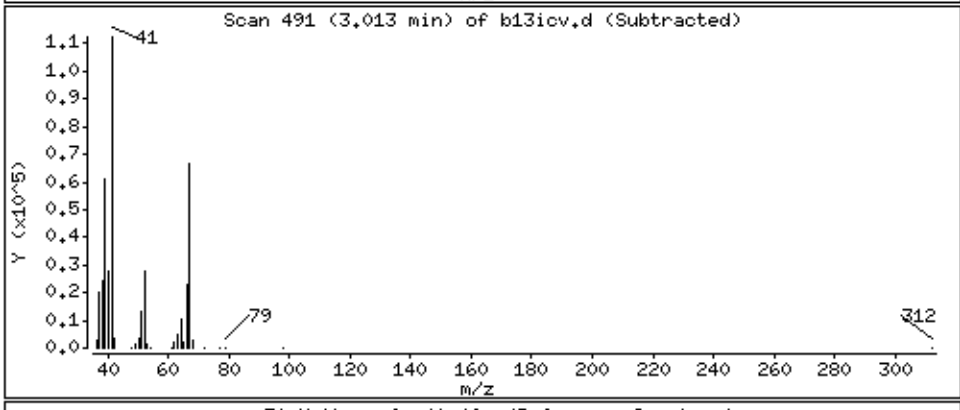
31 Methacrylonitrile

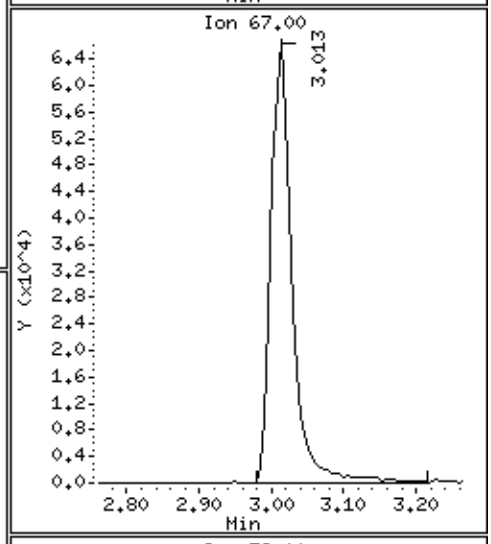
Concentration: 214 ppb

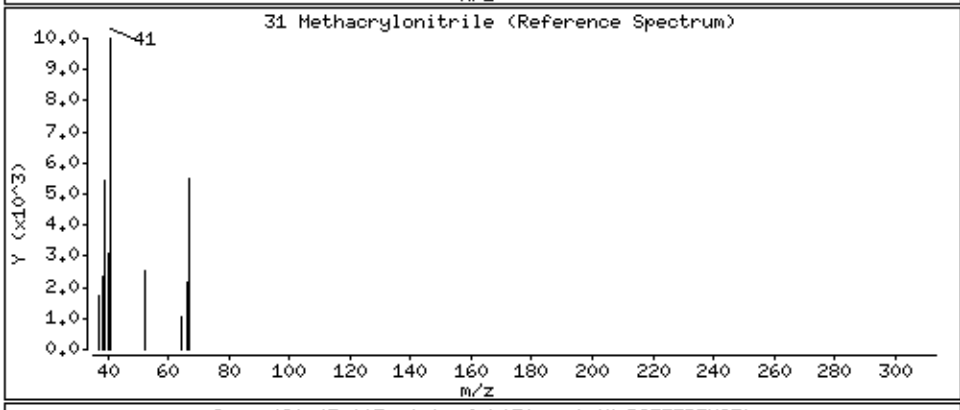
Review Code:

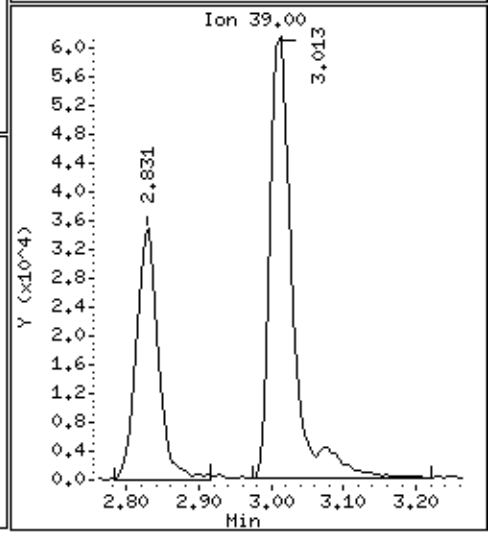


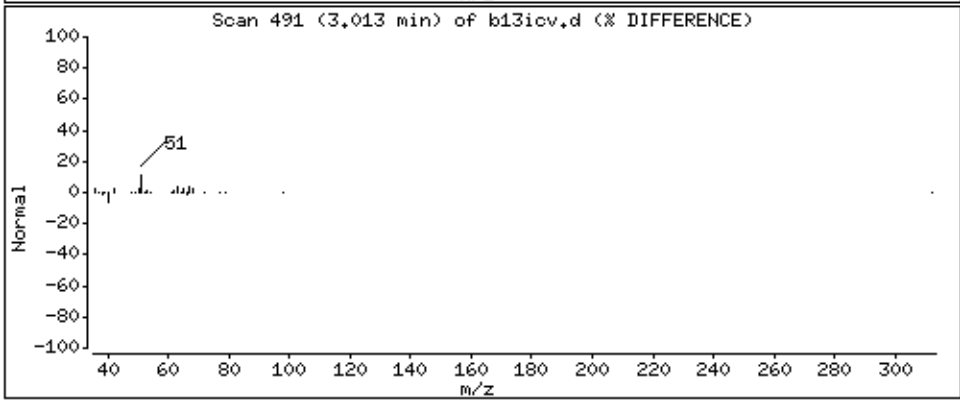












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

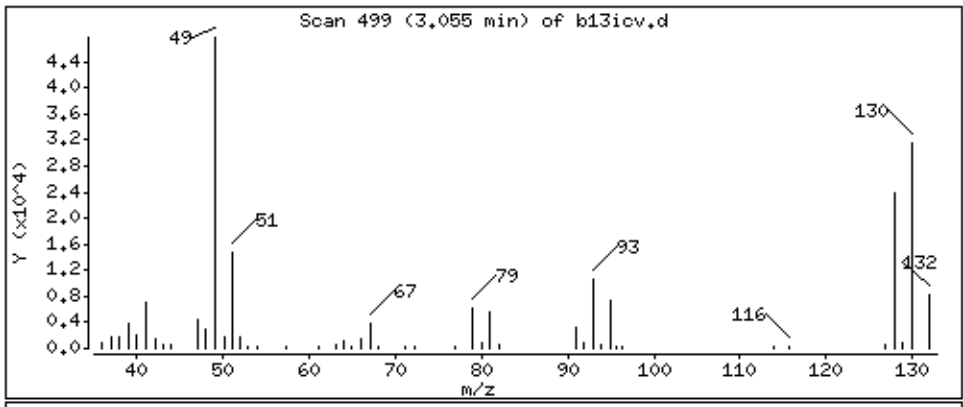
Column phase: DB-624

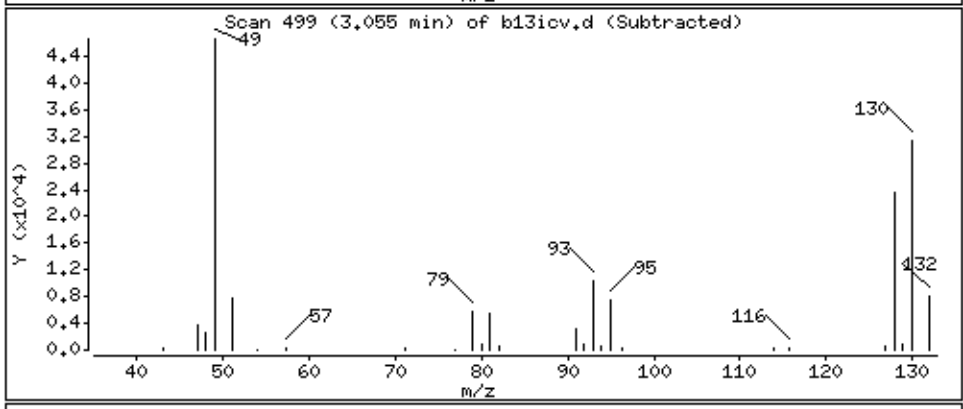
Column diameter: 0.18

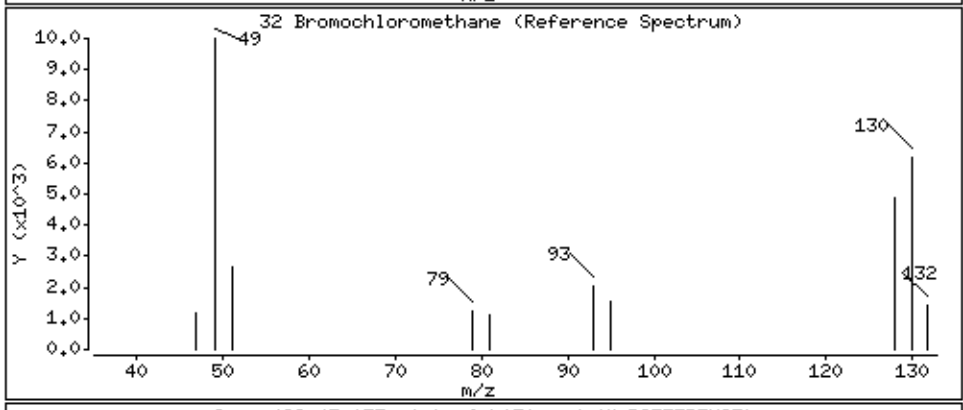
32 Bromochloromethane

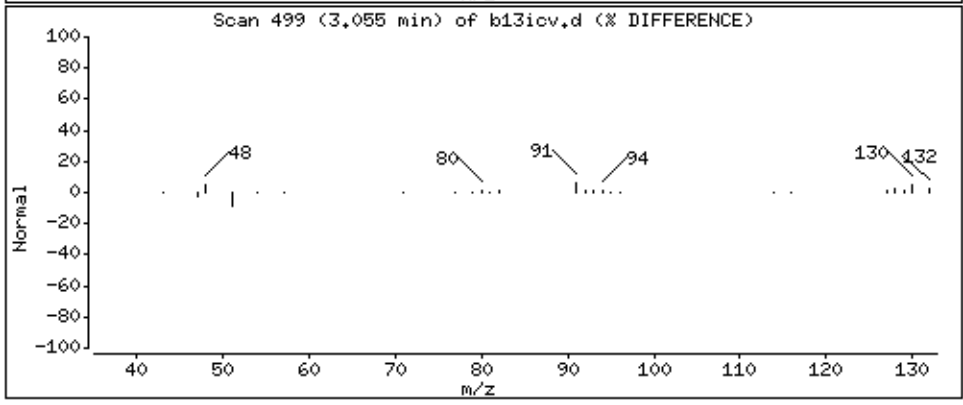
Concentration: 49.5 ppb

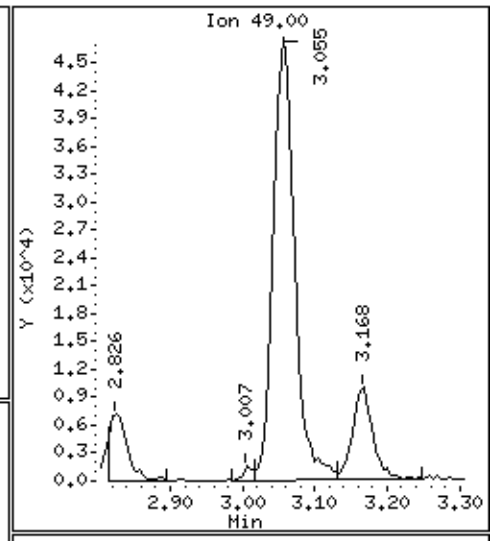
Review Code:

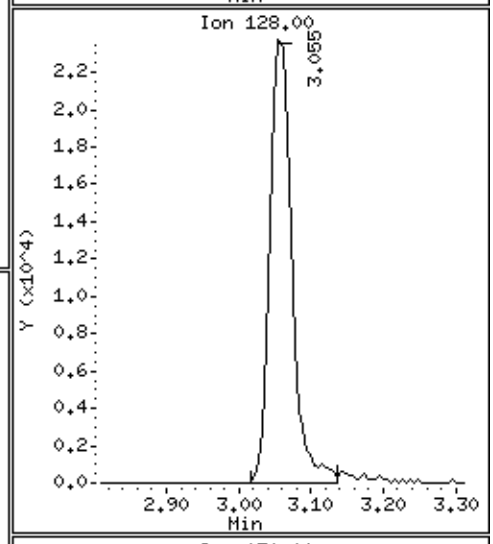


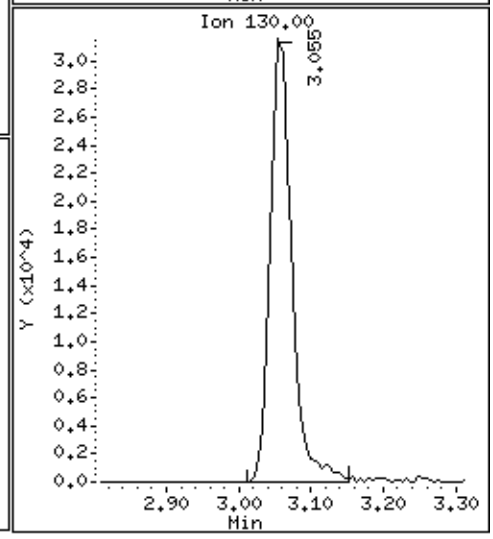












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 37

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

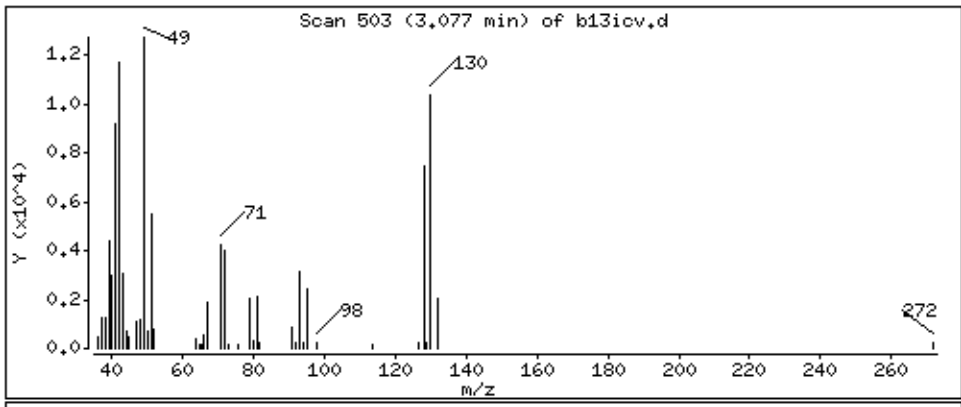
Column phase: DB-624

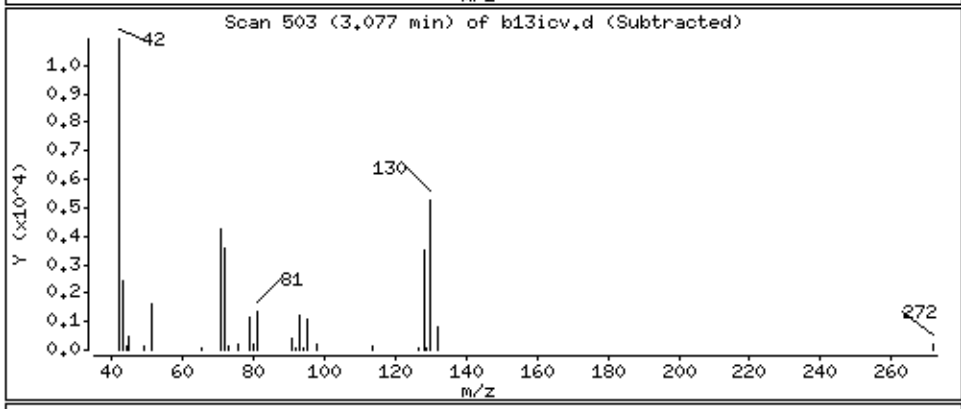
Column diameter: 0.18

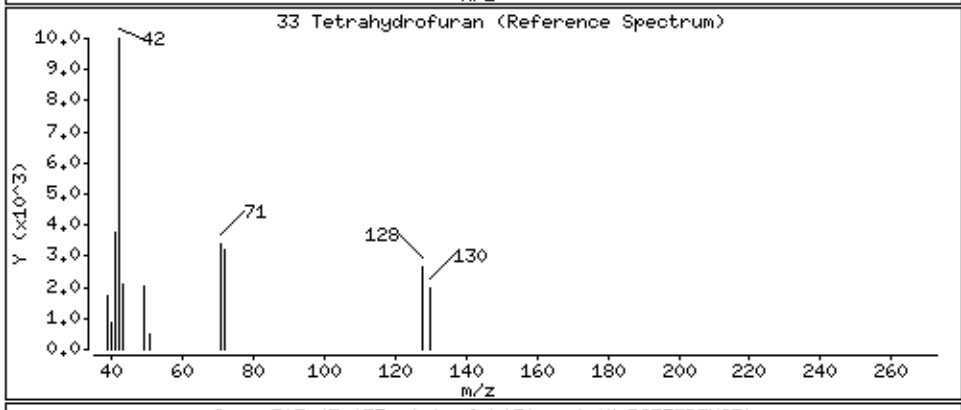
33 Tetrahydrofuran

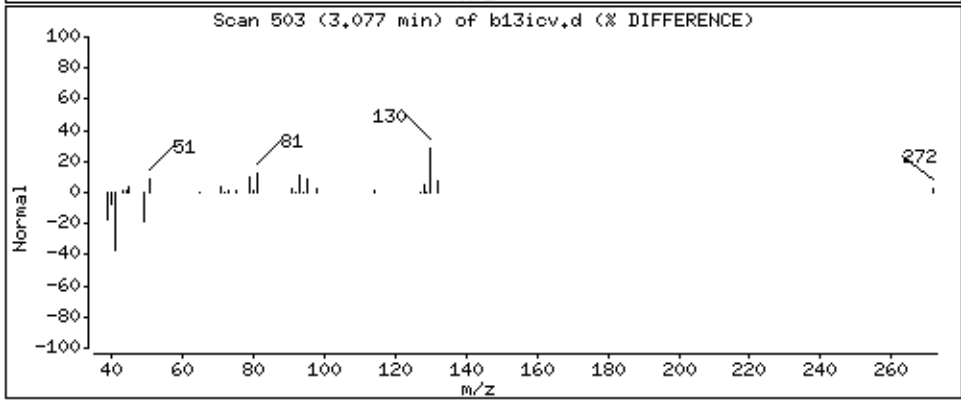
Concentration: 49.8 ppb

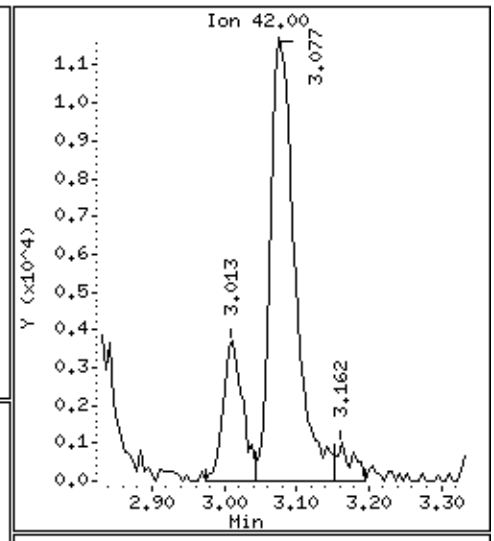
Review Code:

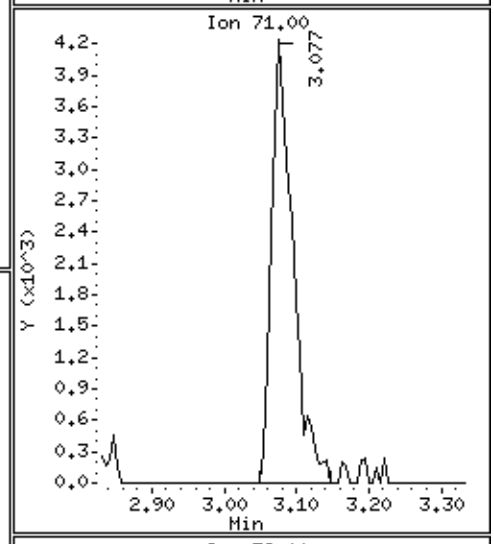


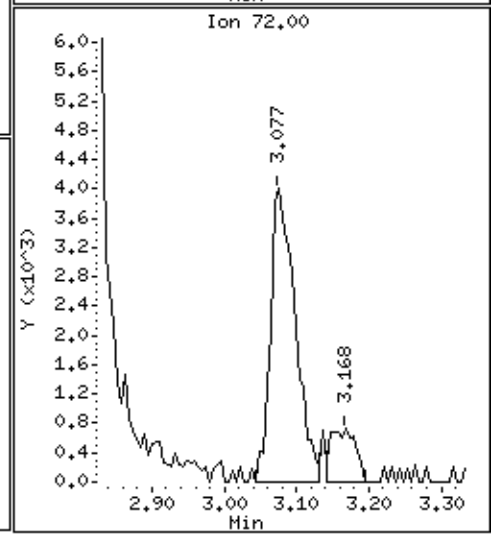












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

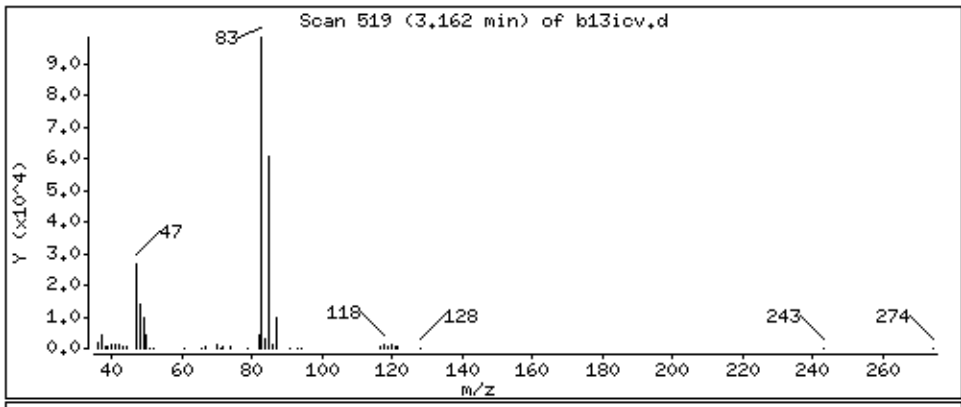
Column phase: DB-624

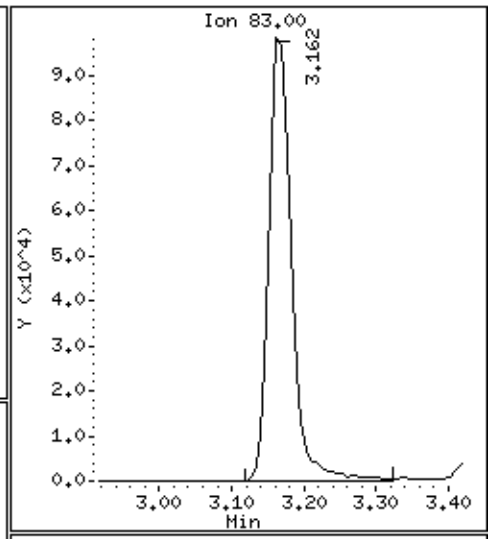
Column diameter: 0.18

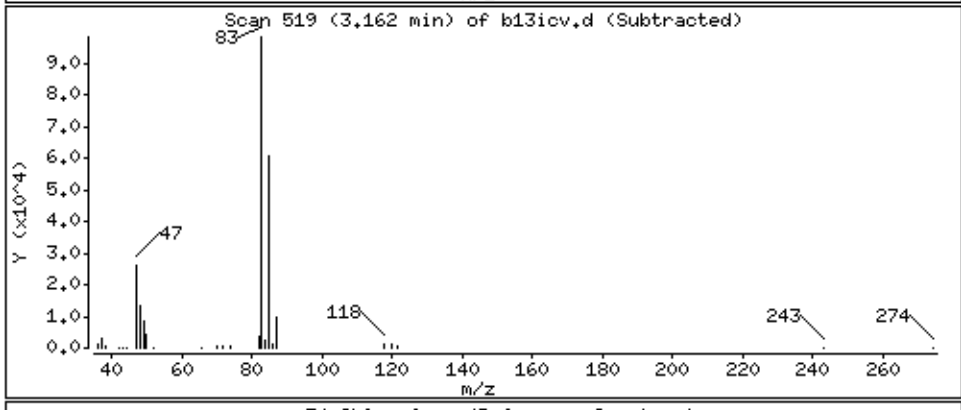
34 Chloroform

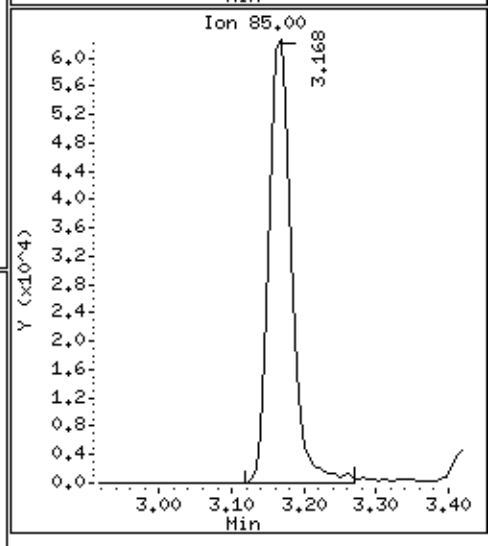
Concentration: 49.3 ppb

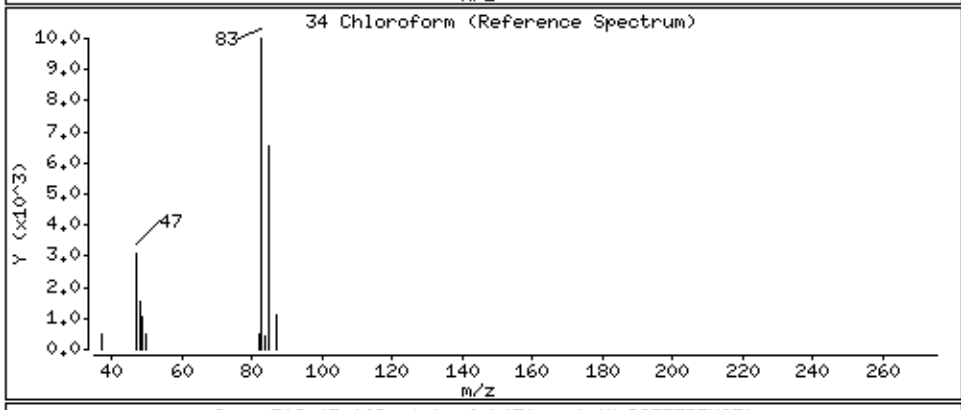
Review Code:

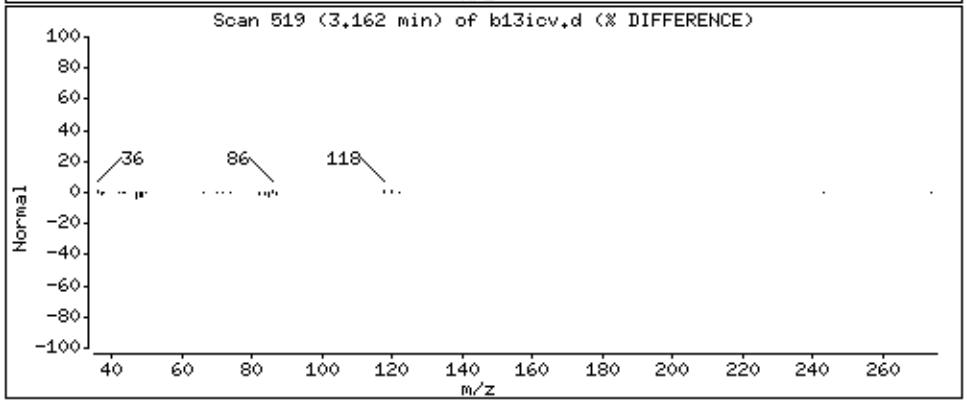












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

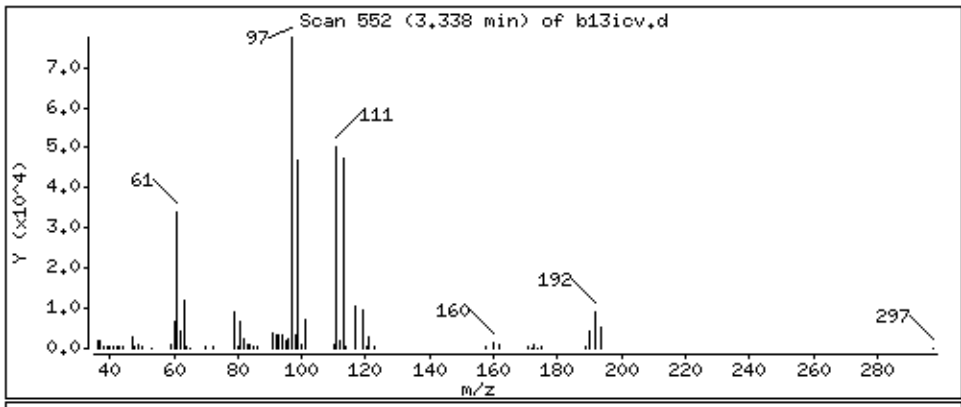
Column phase: DB-624

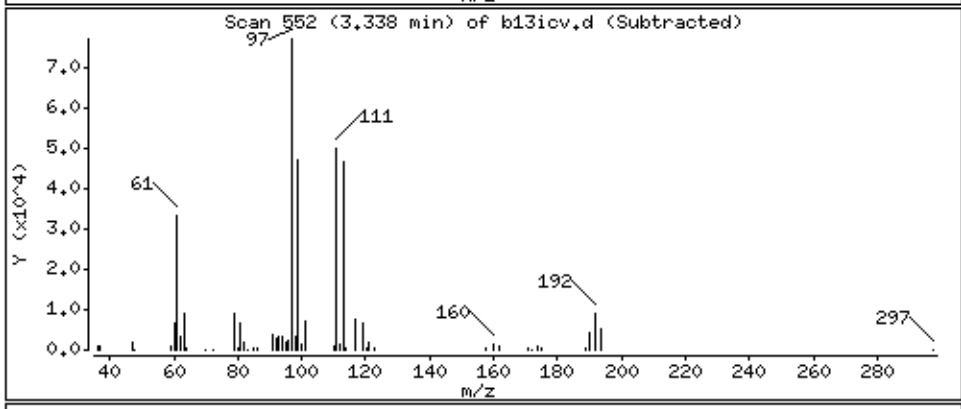
Column diameter: 0.18

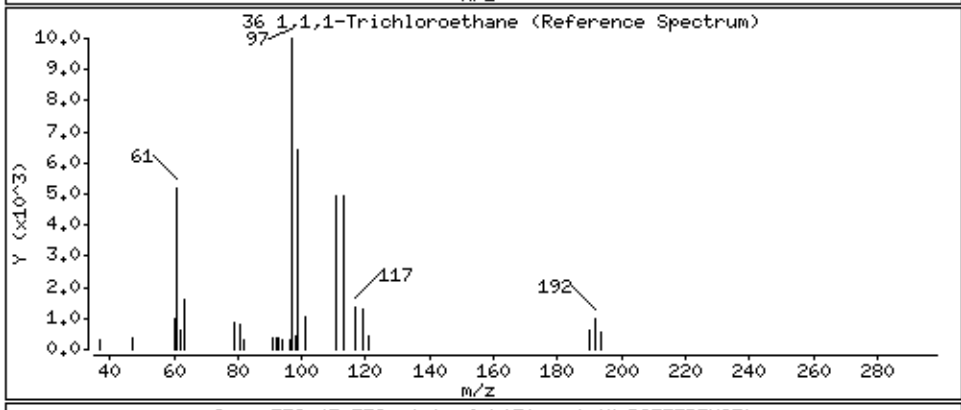
36 1,1,1-Trichloroethane

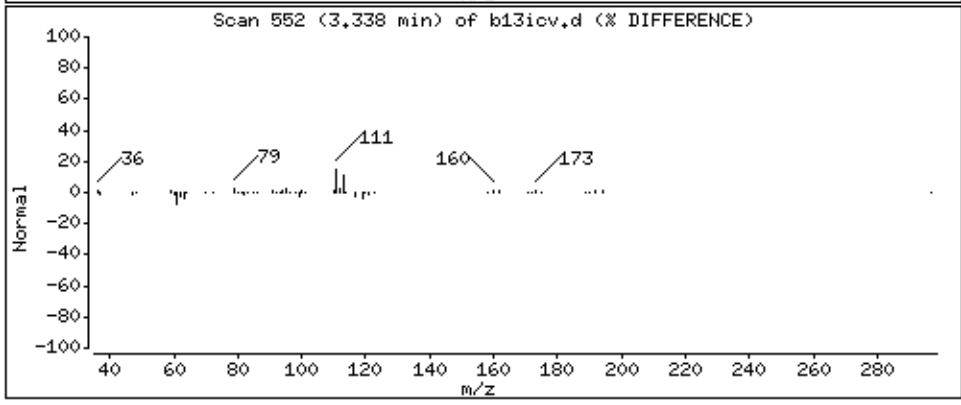
Concentration: 50.1 ppb

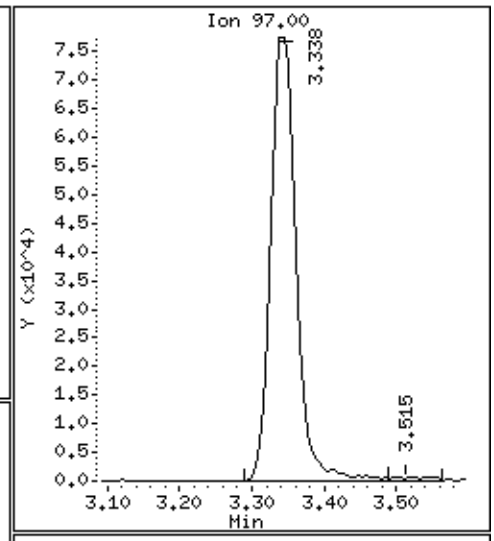
Review Code:

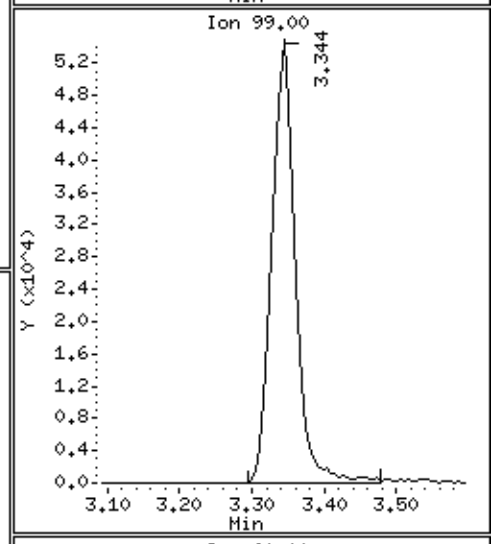


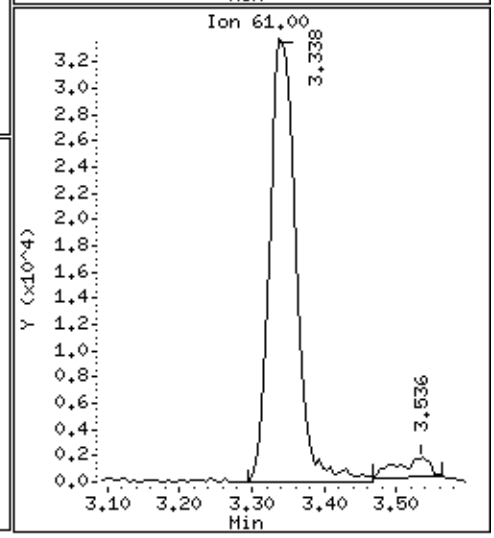












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 40

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

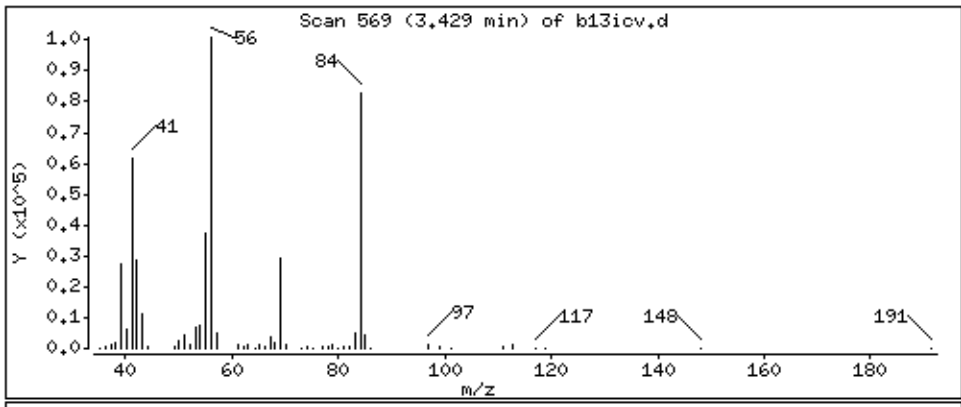
Column phase: DB-624

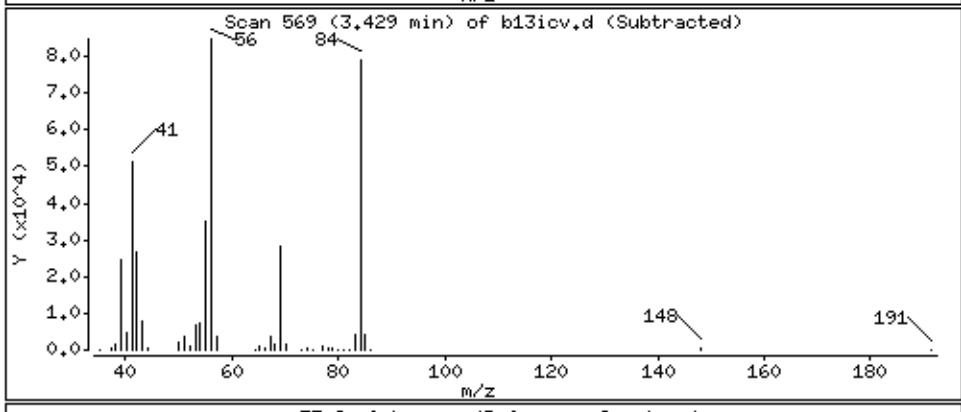
Column diameter: 0.18

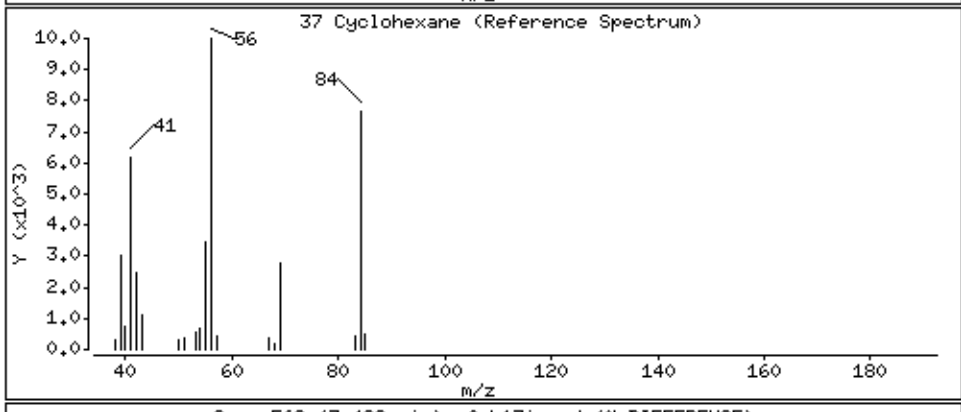
37 Cyclohexane

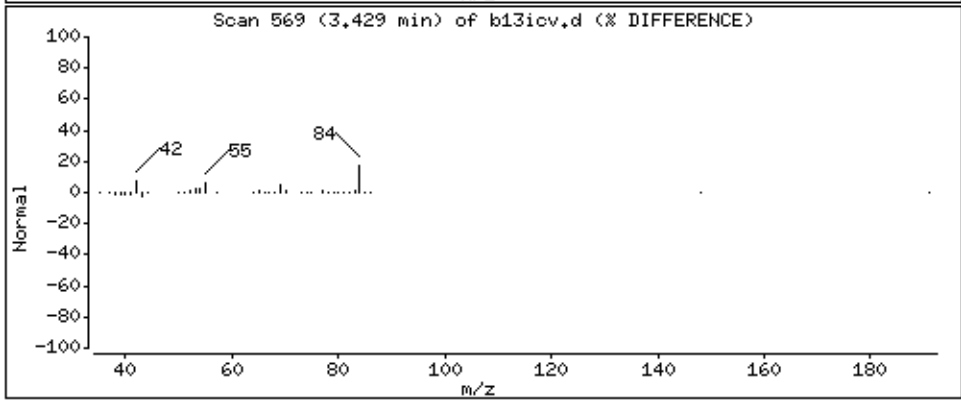
Concentration: 47.7 ppb

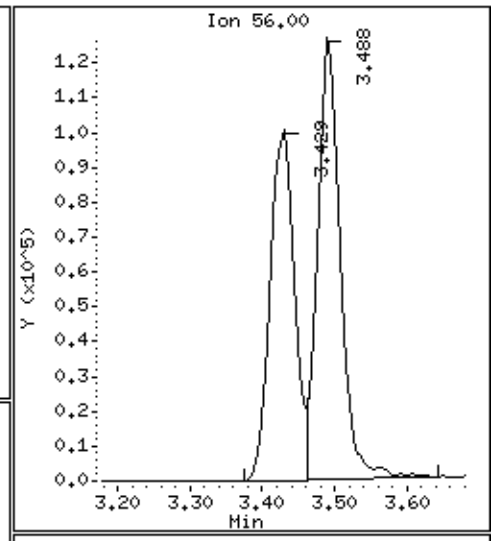
Review Code:

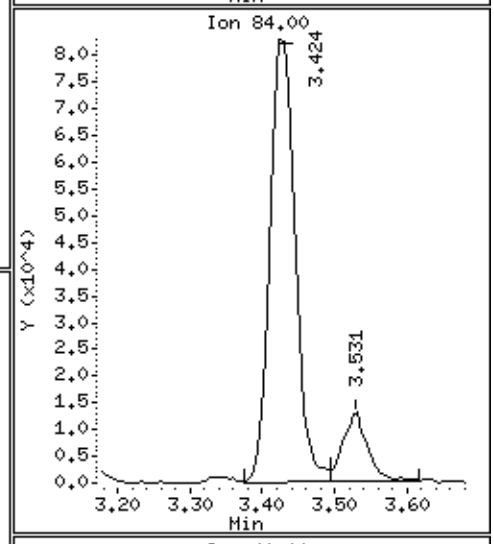


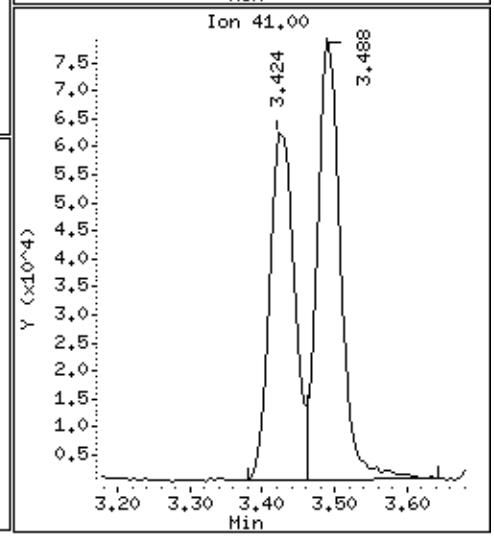












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

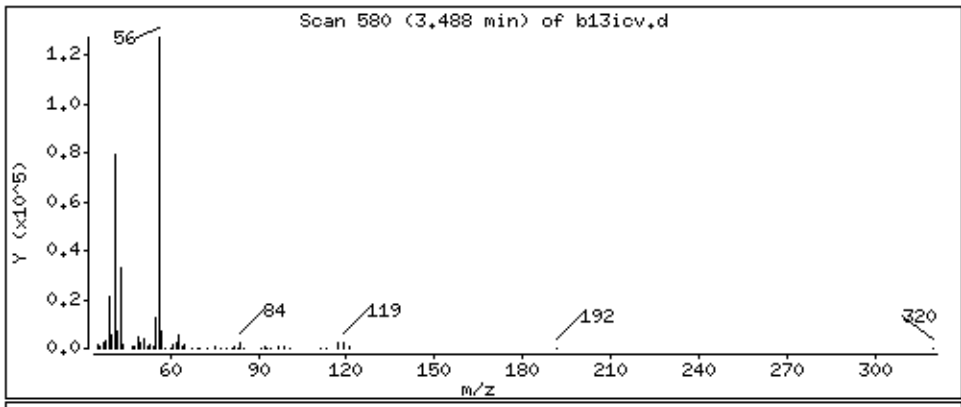
Column phase: DB-624

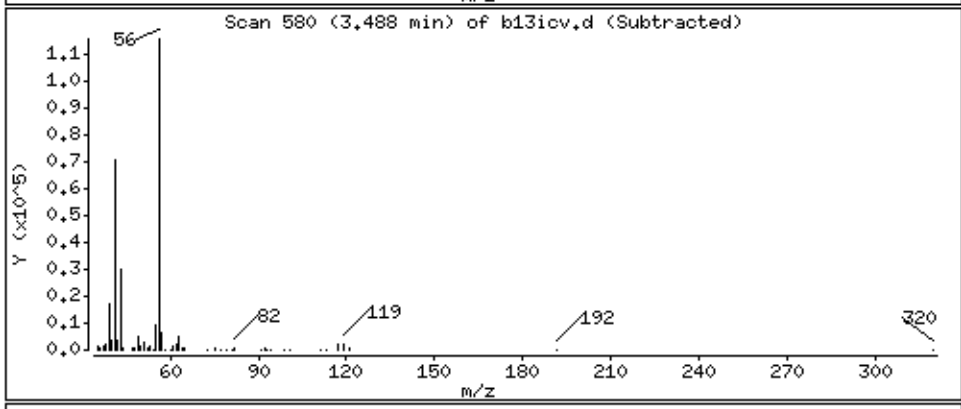
Column diameter: 0.18

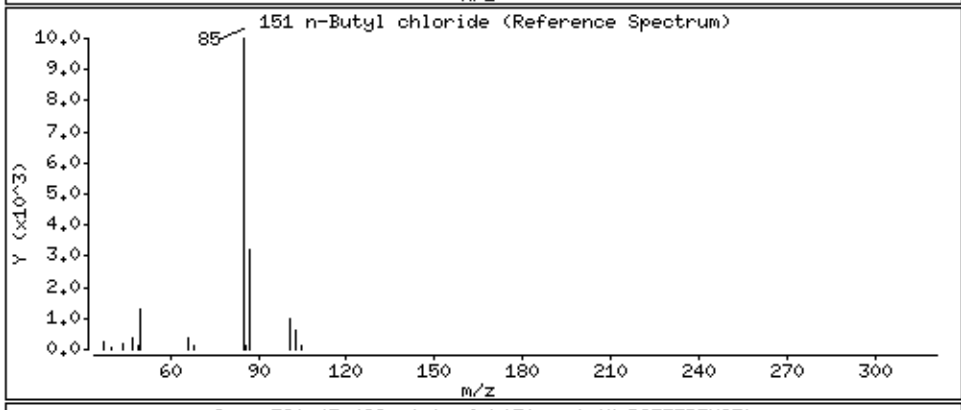
151 n-Butyl chloride

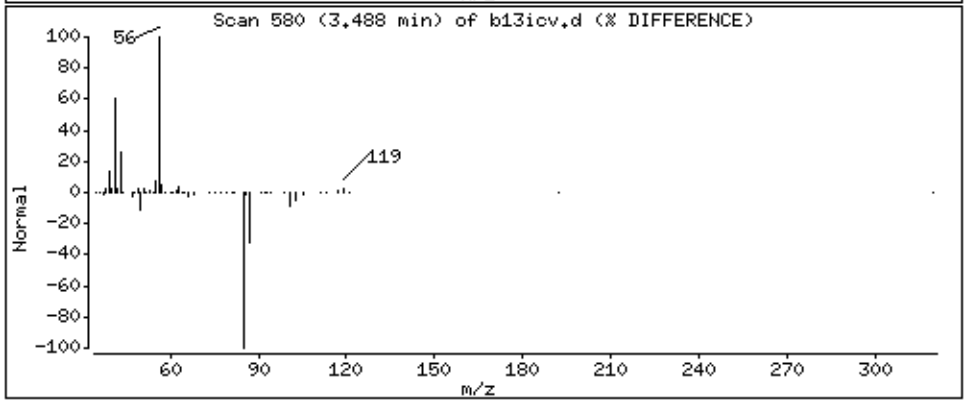
Concentration: 49.9 ppb

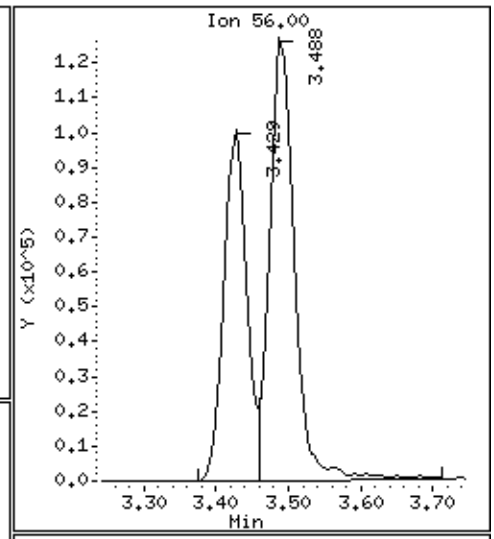
Review Code:

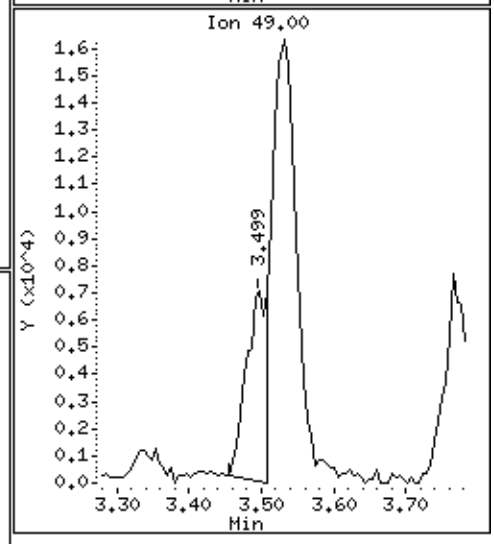












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

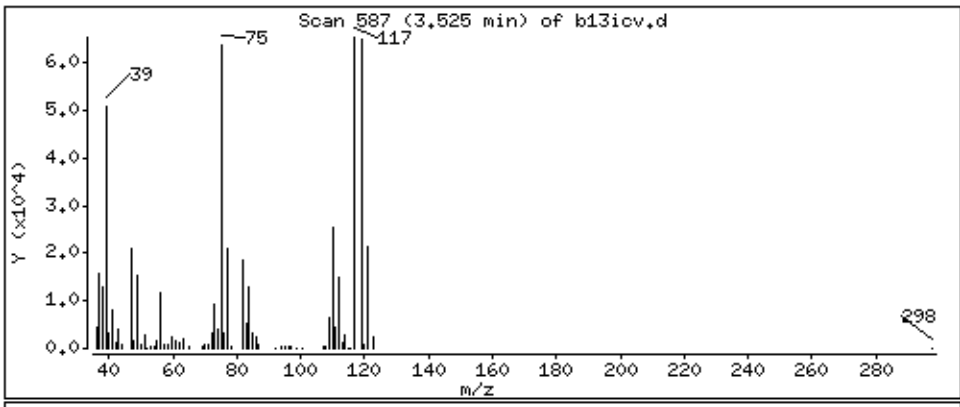
Column phase: DB-624

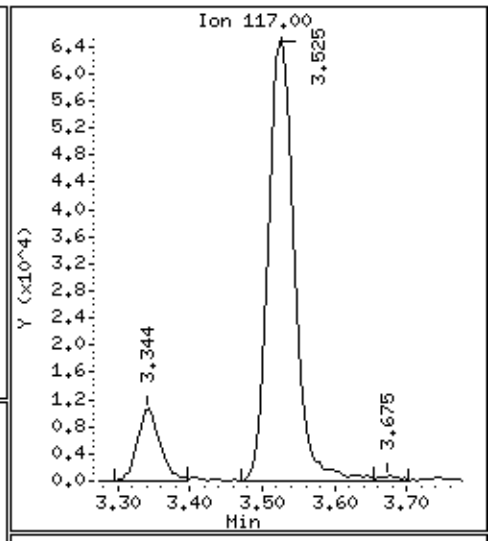
Column diameter: 0.18

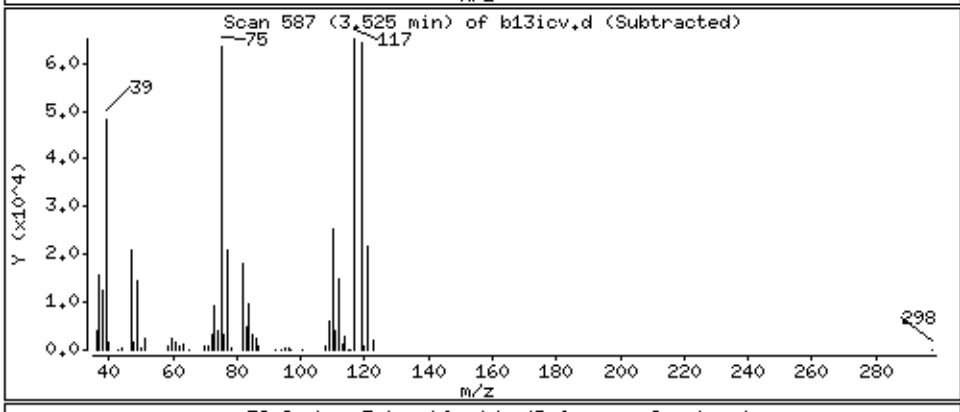
38 Carbon Tetrachloride

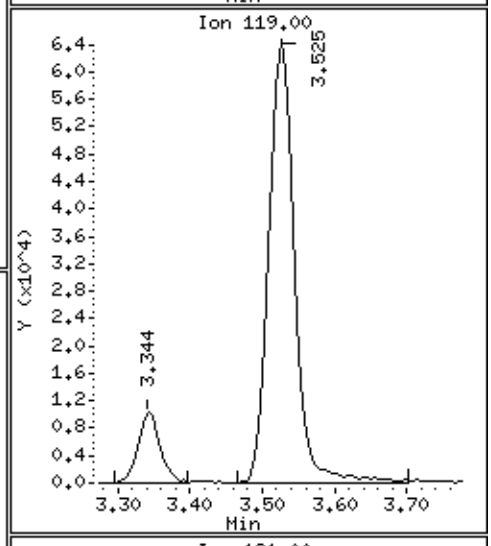
Concentration: 51.7 ppb

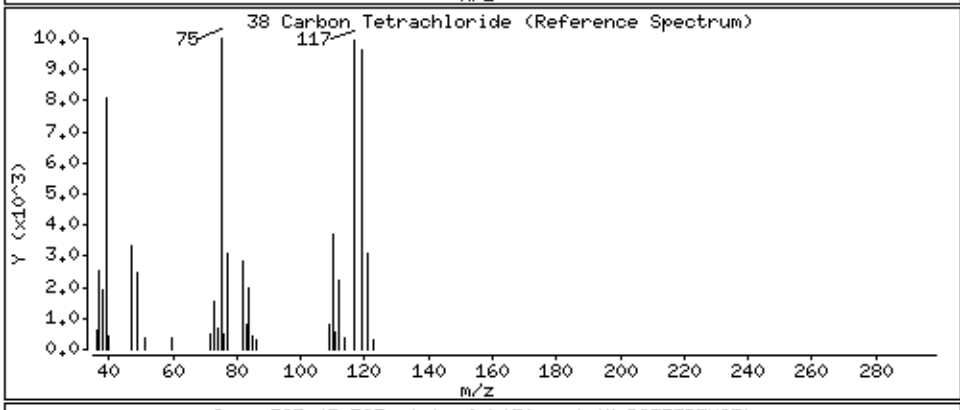
Review Code:

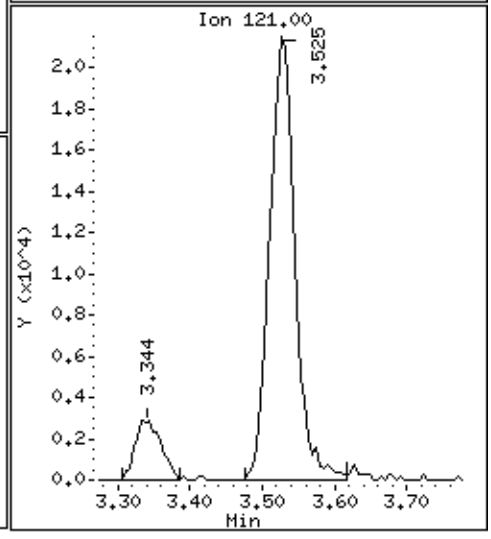


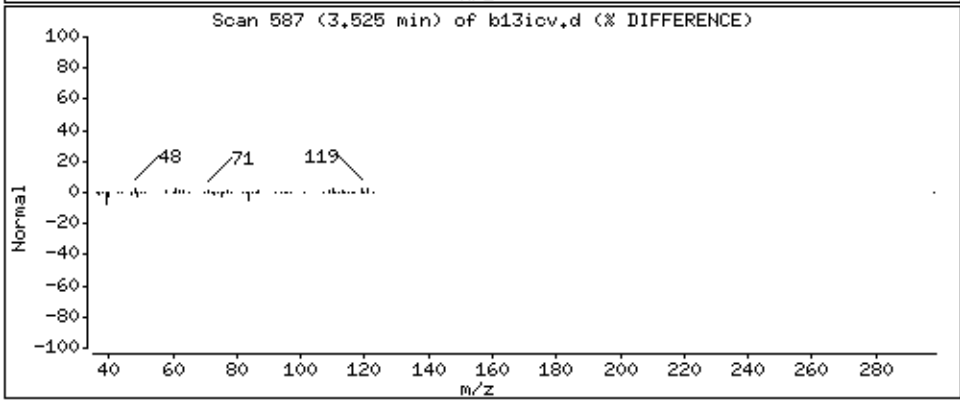












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

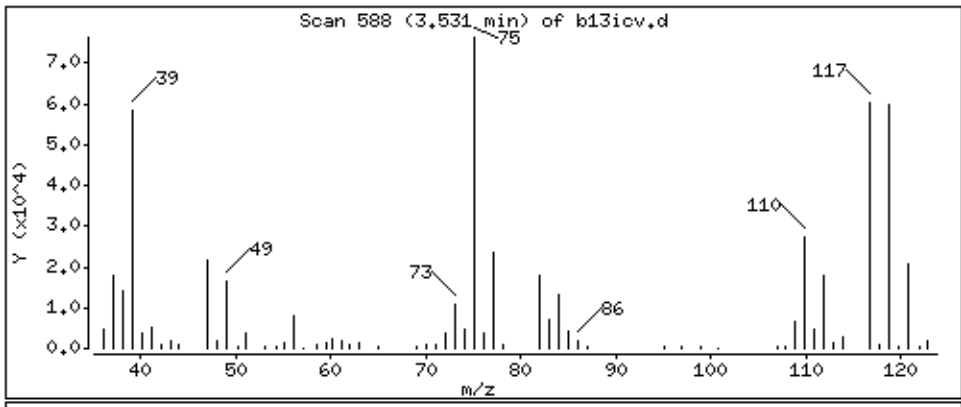
Column phase: DB-624

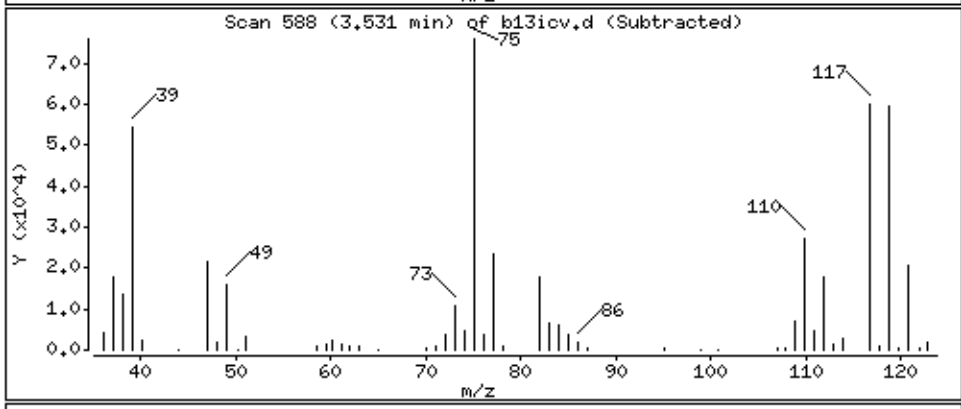
Column diameter: 0.18

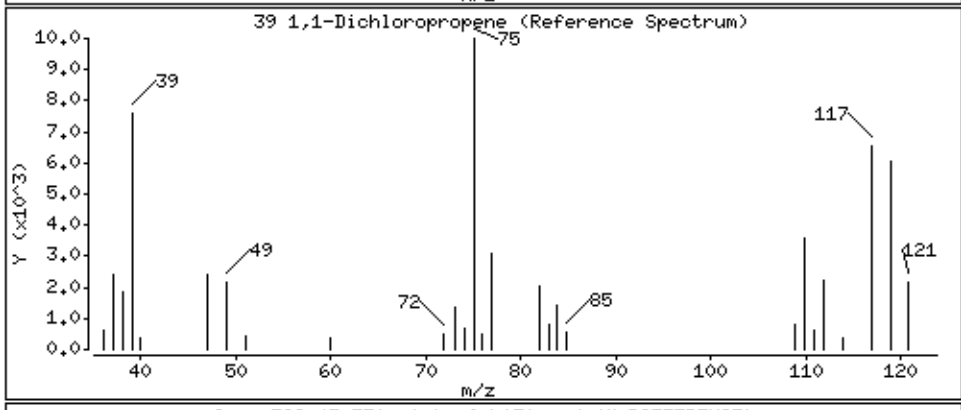
39 1,1-Dichloropropene

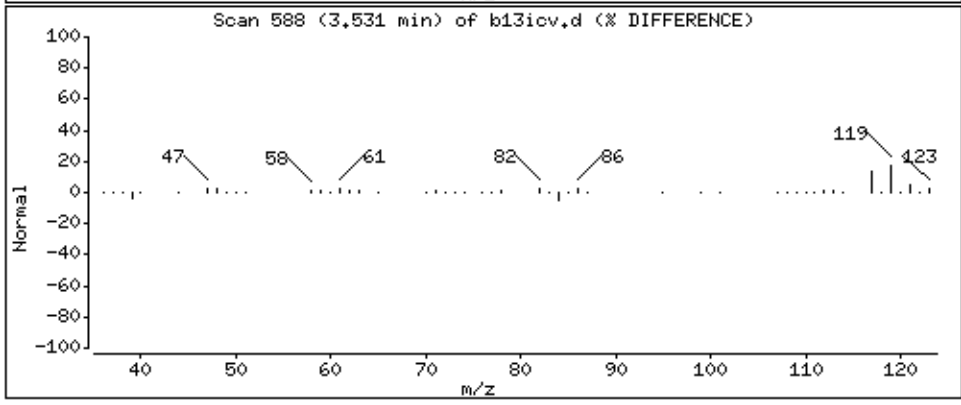
Concentration: 50.0 ppb

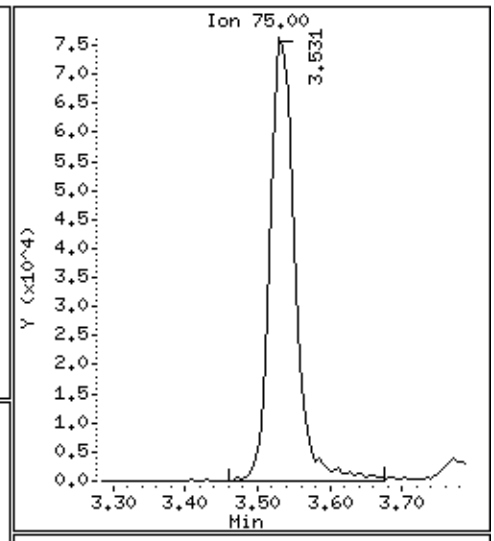
Review Code:

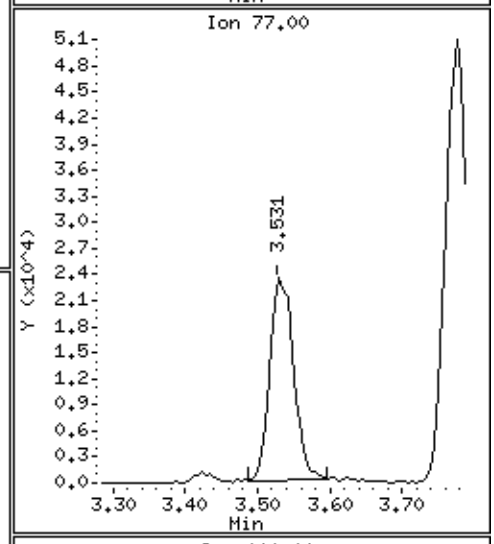


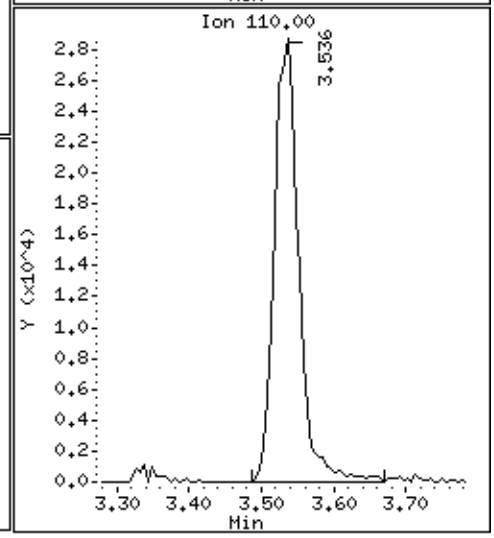












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 44

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

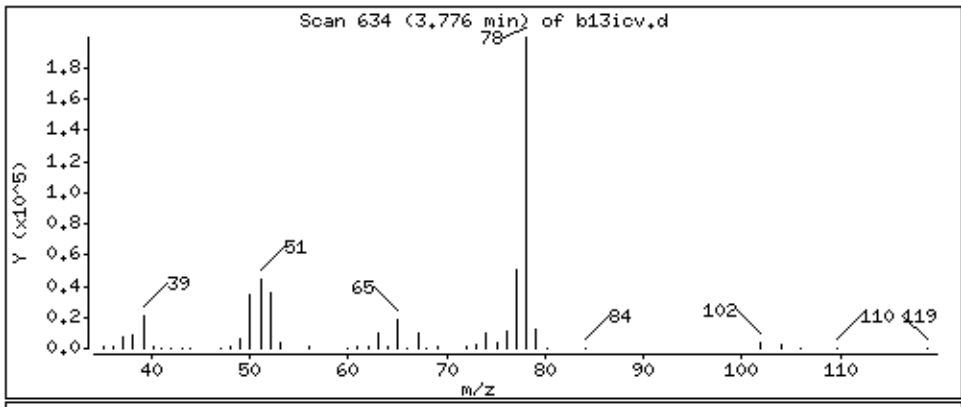
Column phase: DB-624

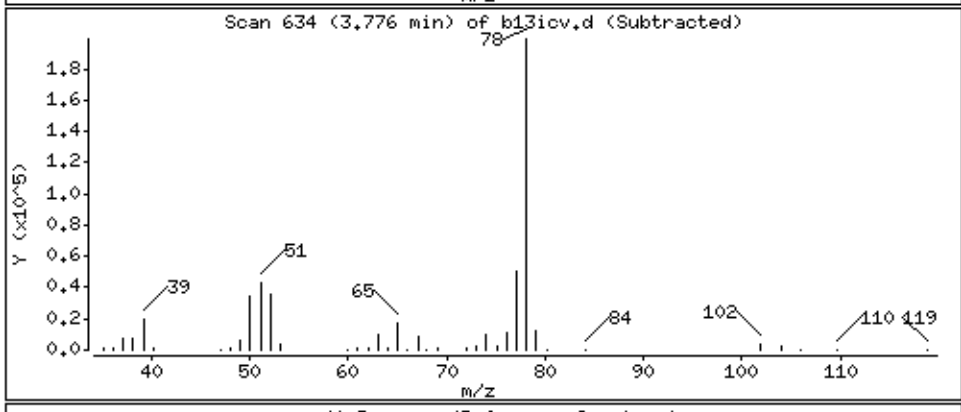
Column diameter: 0.18

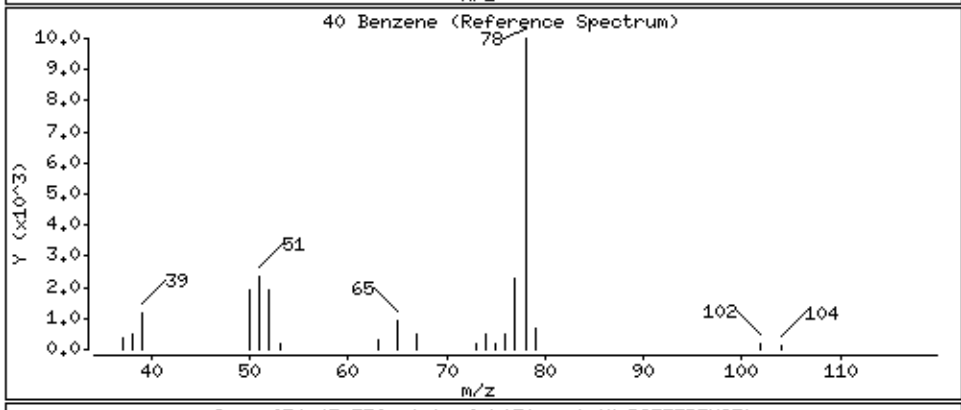
40 Benzene

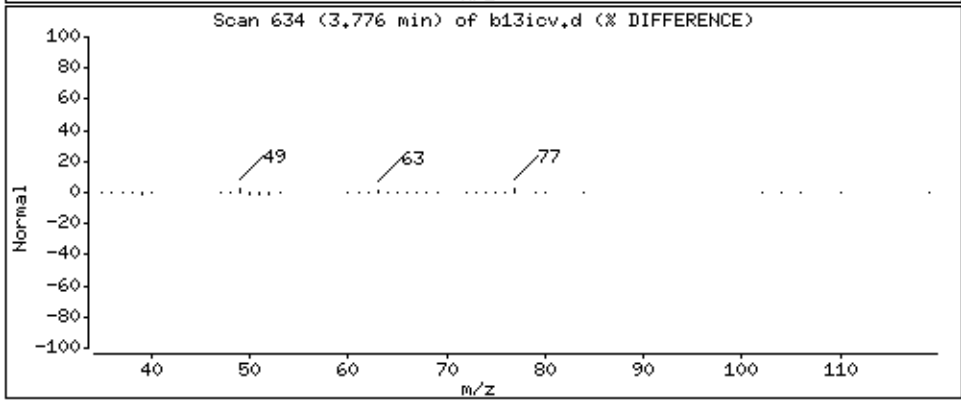
Concentration: 49.8 ppb

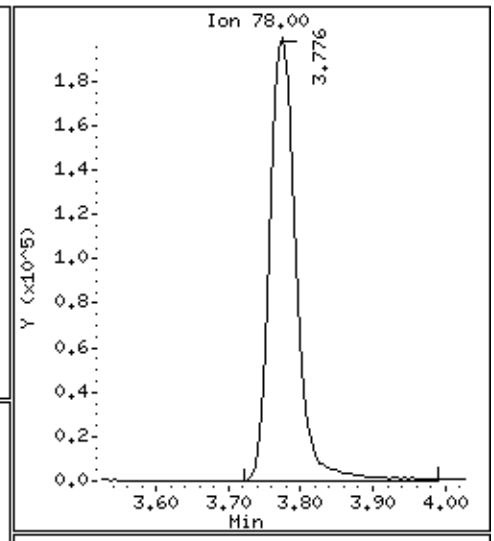
Review Code:

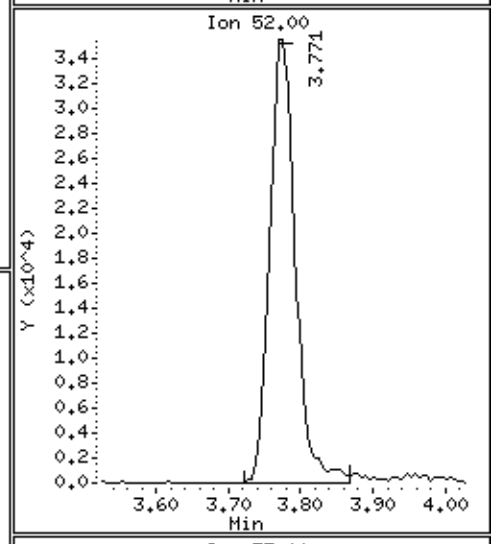


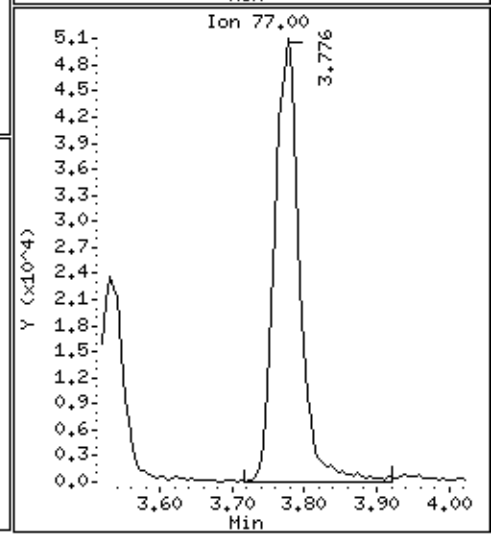












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 45

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

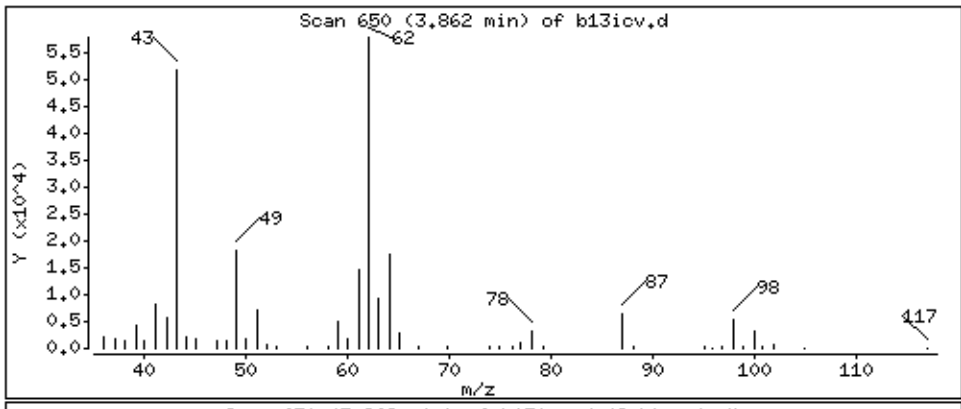
Column phase: DB-624

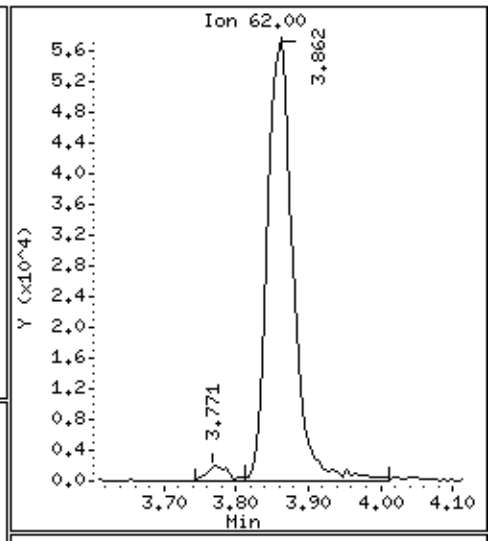
Column diameter: 0.18

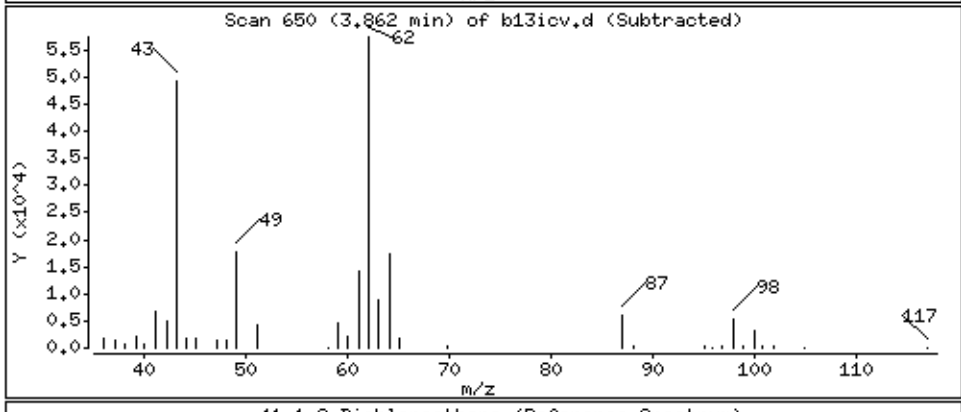
41 1,2-Dichloroethane

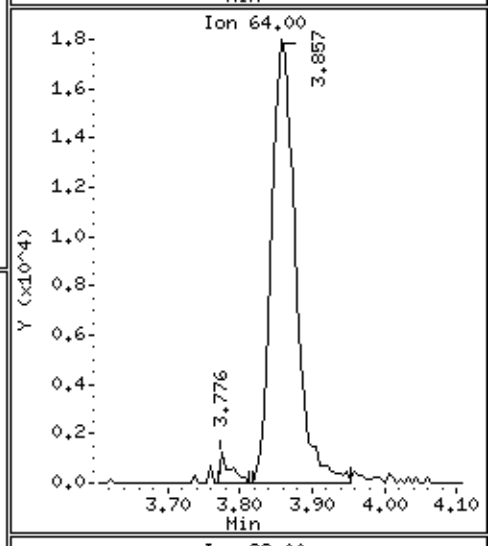
Concentration: 50.2 ppb

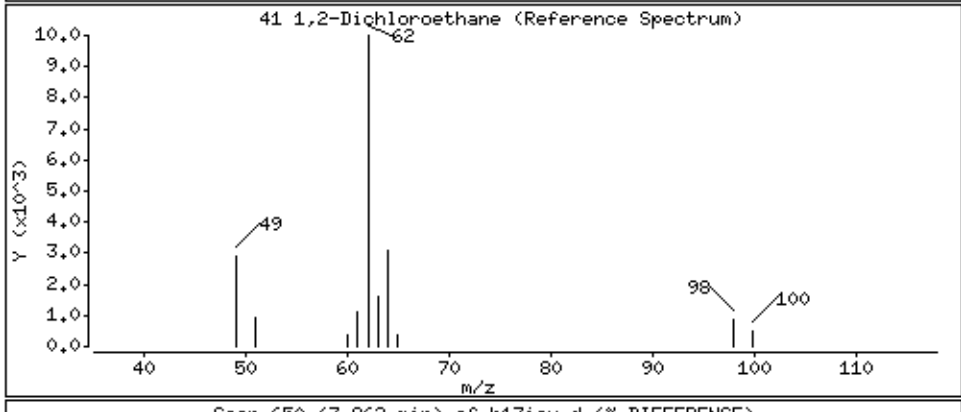
Review Code:

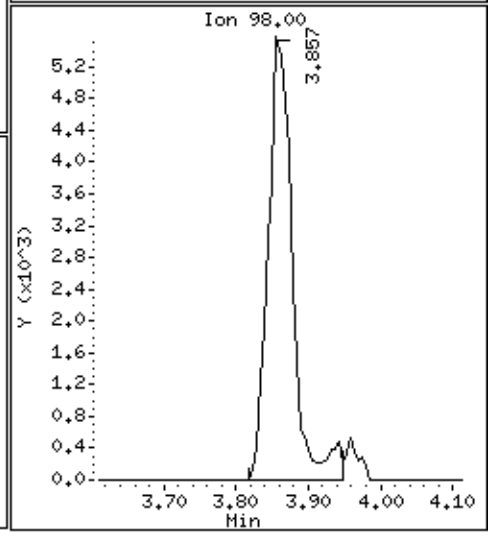


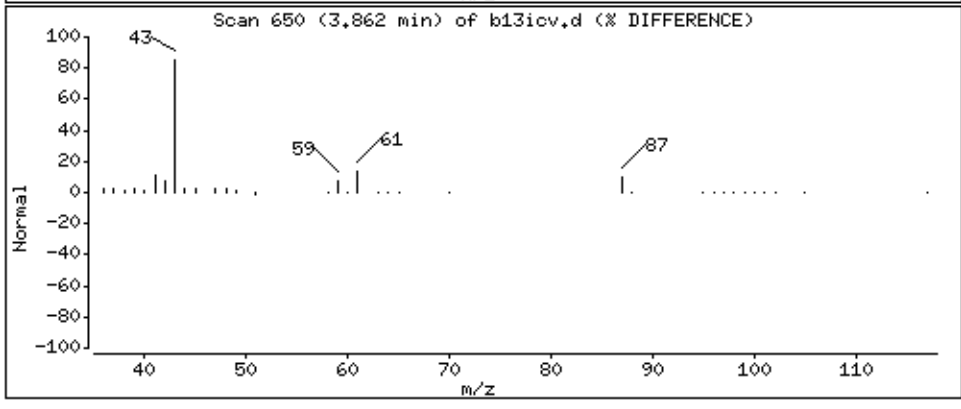












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

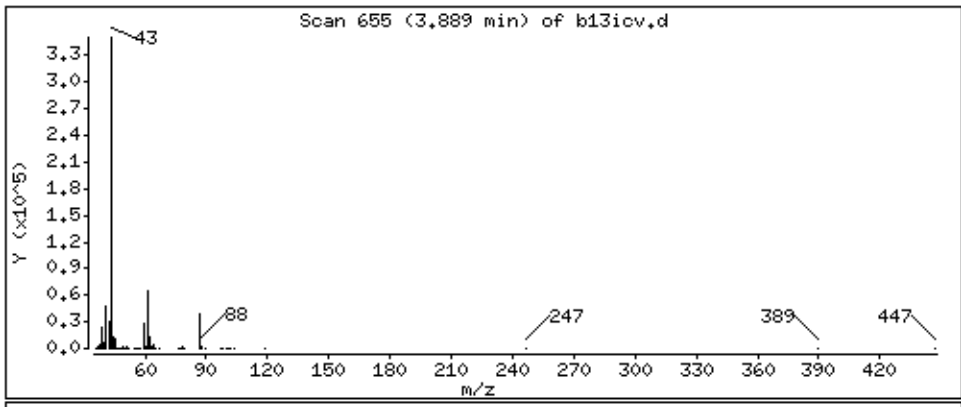
Column phase: DB-624

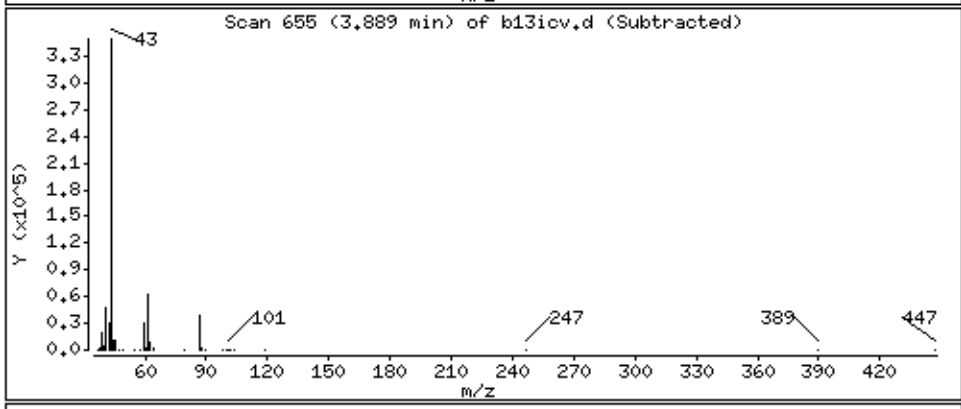
Column diameter: 0.18

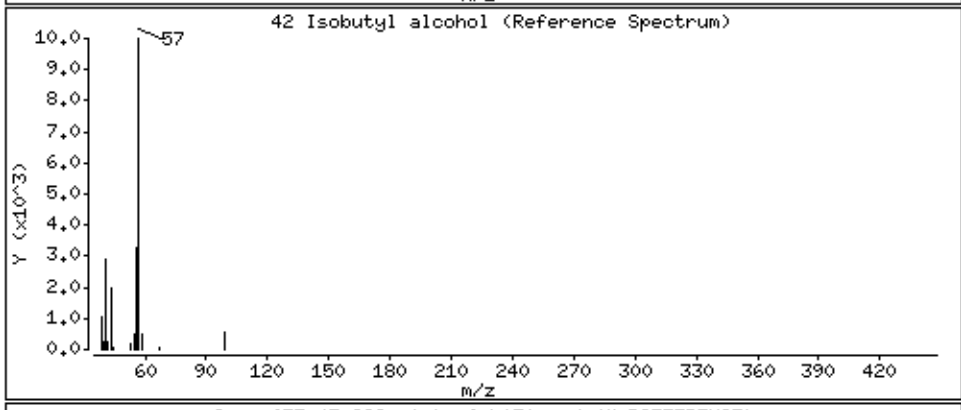
42 Isobutyl alcohol

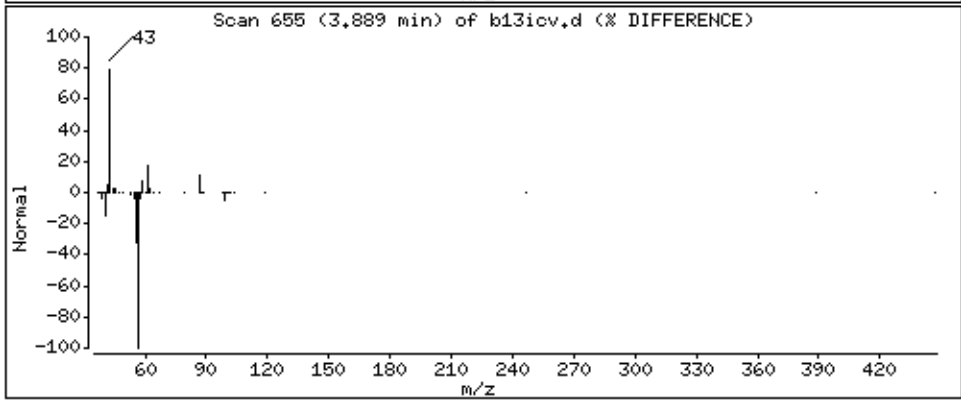
Concentration: 430 ppb

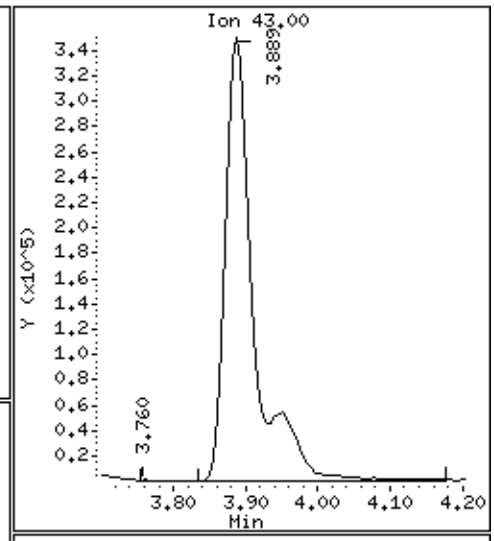
Review Code:

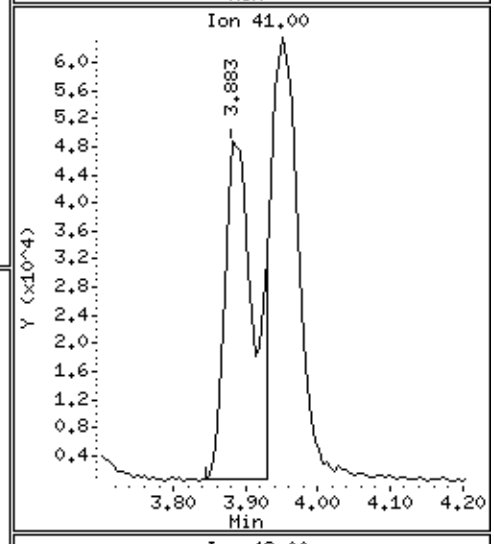


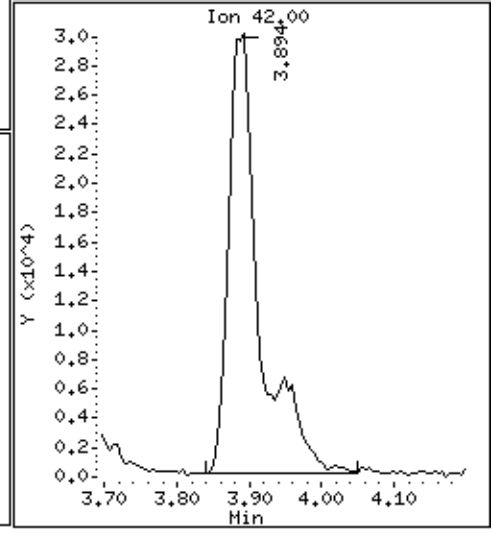












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

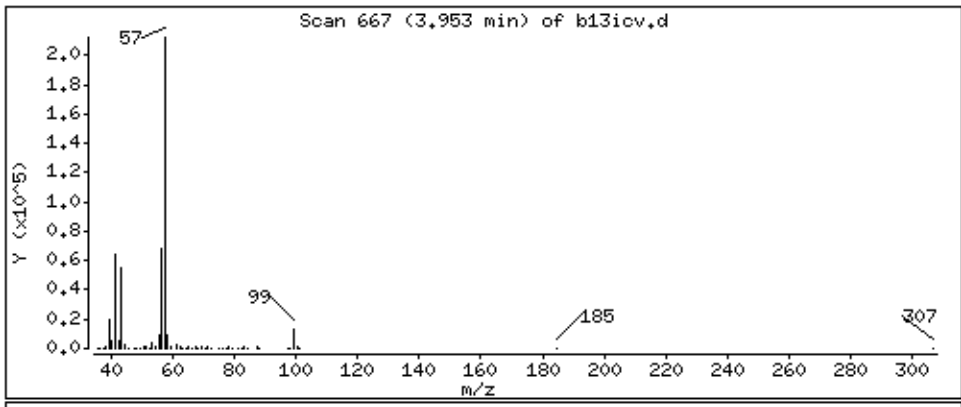
Column phase: DB-624

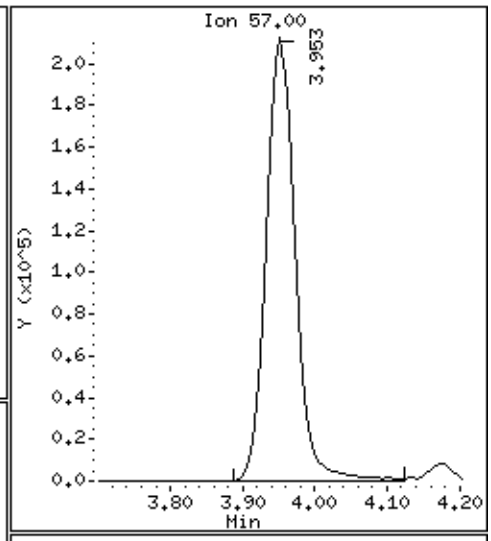
Column diameter: 0.18

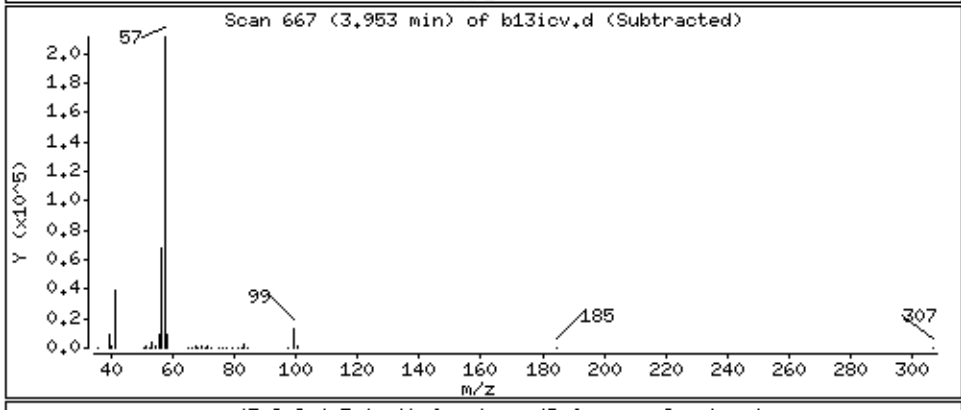
43 2,2,4-Trimethylpentane

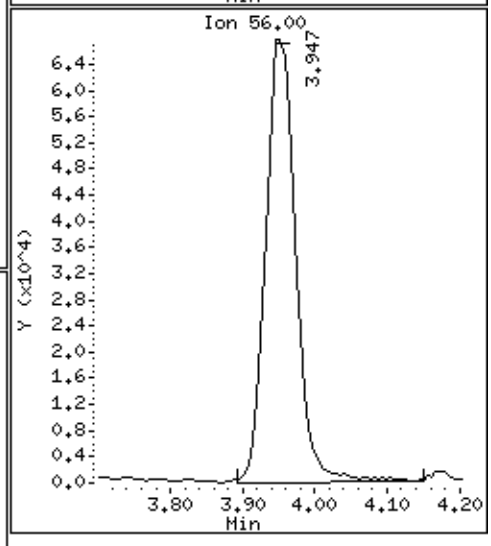
Concentration: 52.9 ppb

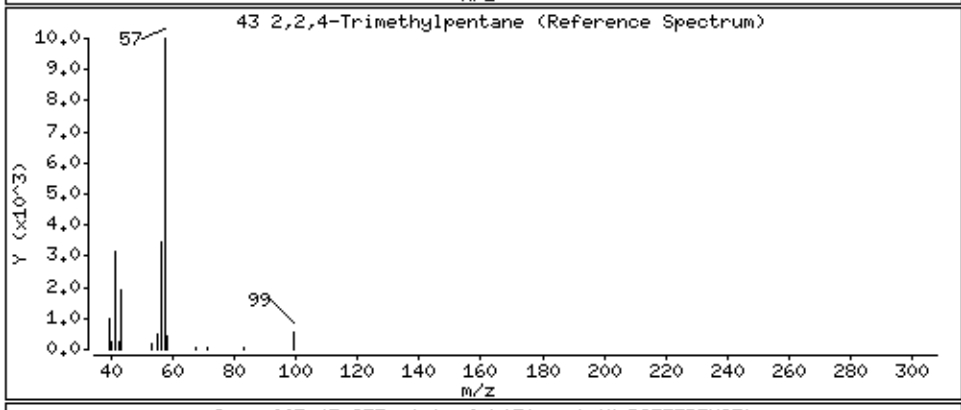
Review Code:

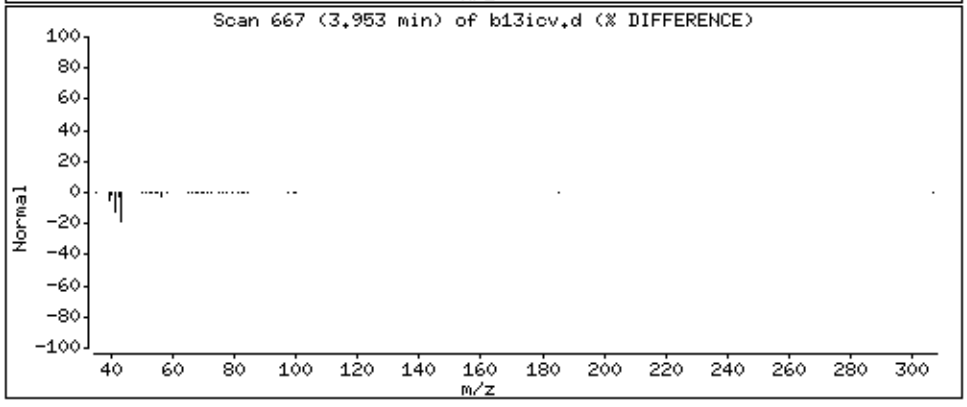












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

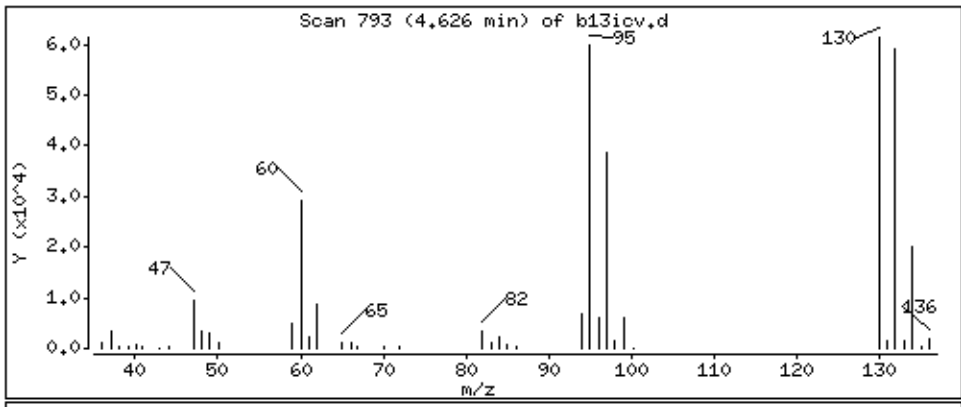
Column phase: DB-624

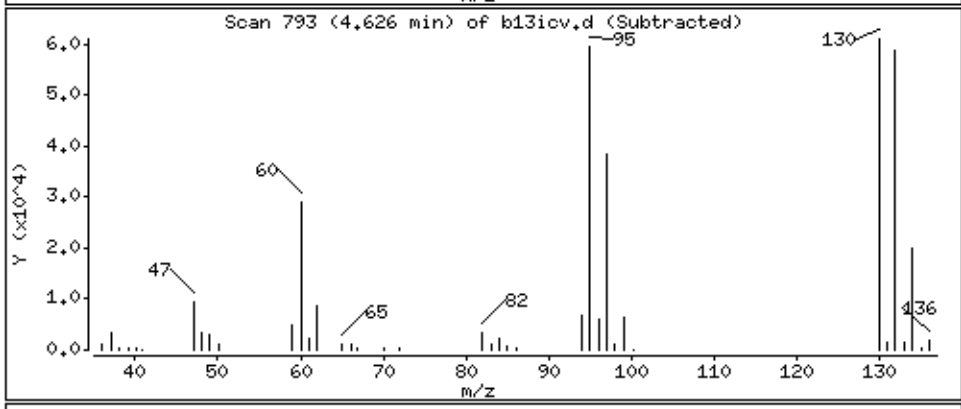
Column diameter: 0.18

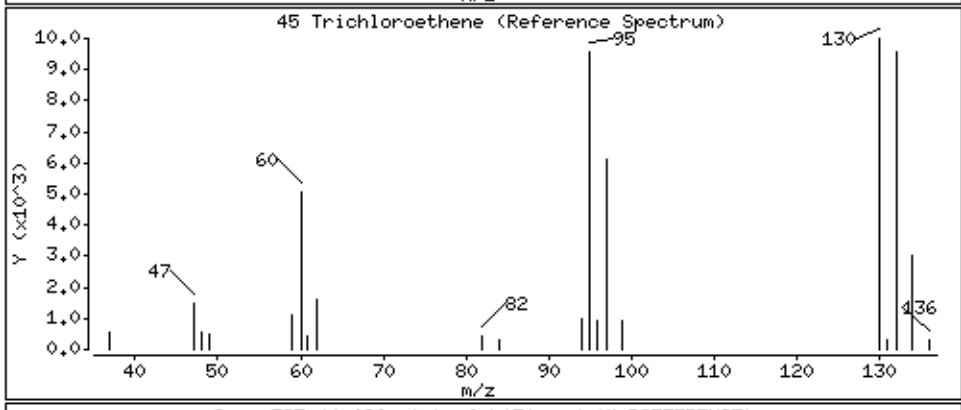
45 Trichloroethene

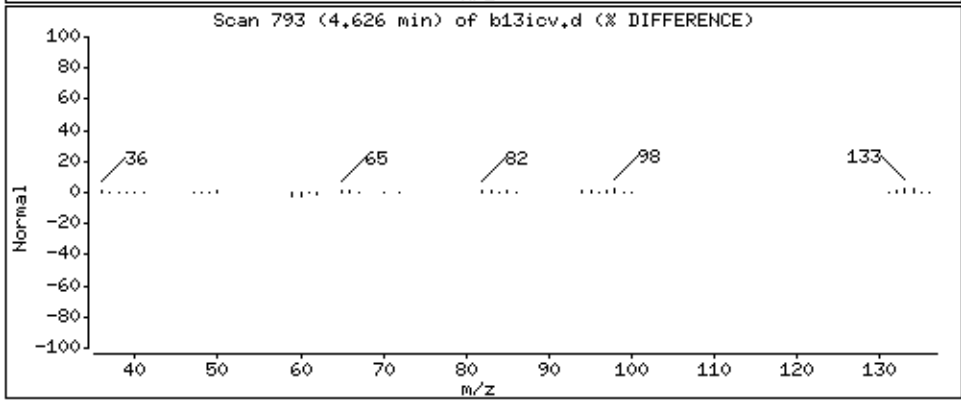
Concentration: 50.4 ppb

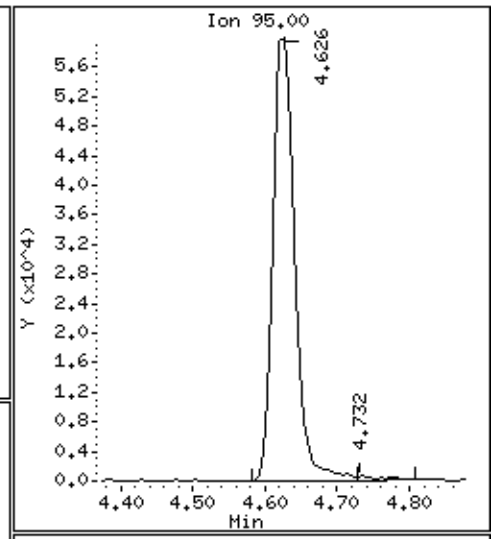
Review Code:

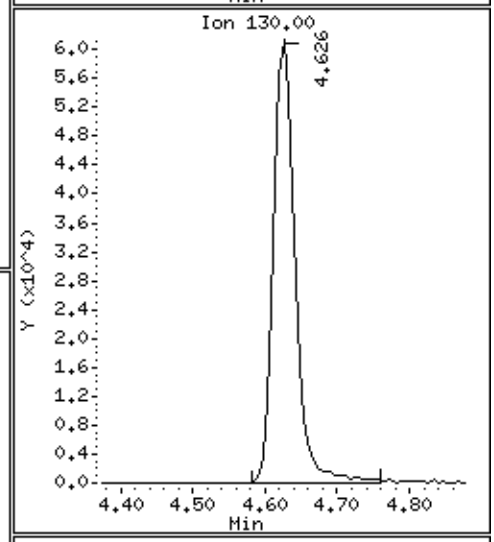


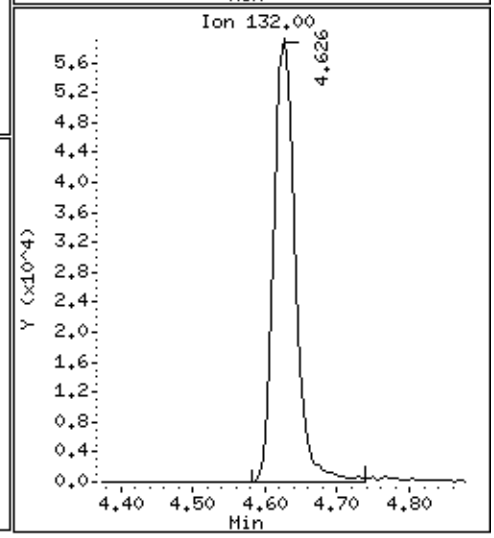












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 49

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

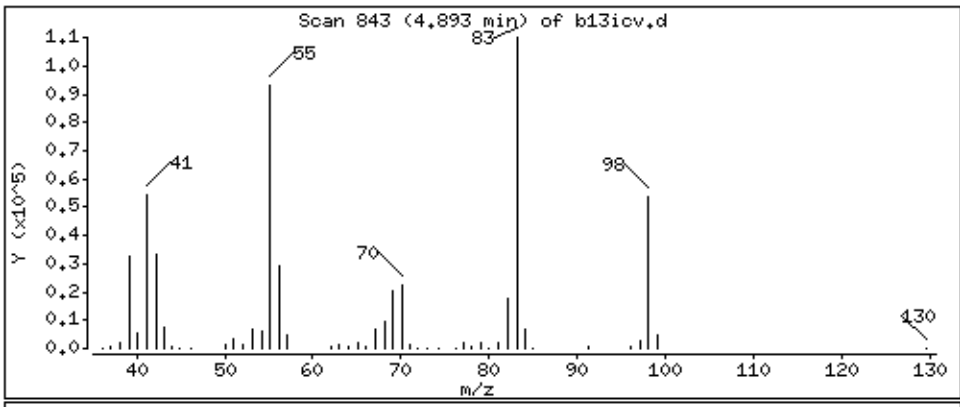
Column phase: DB-624

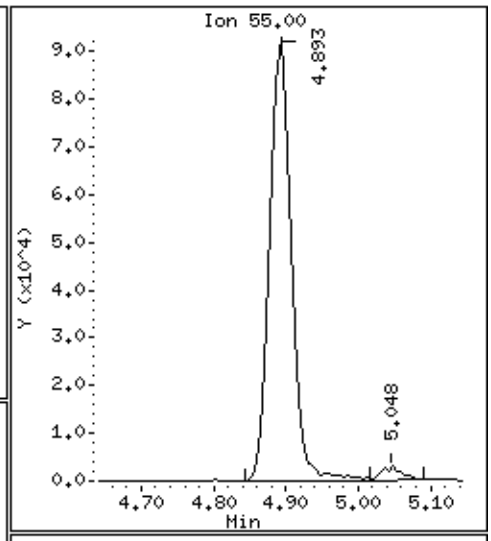
Column diameter: 0.18

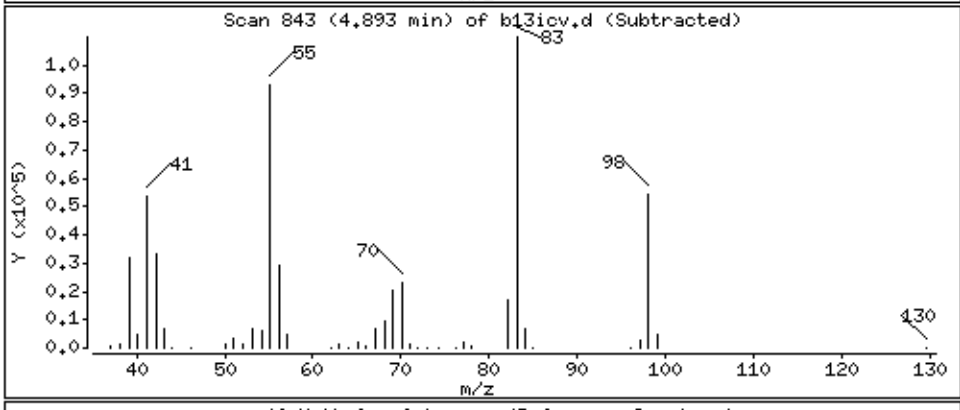
46 Methylcyclohexane

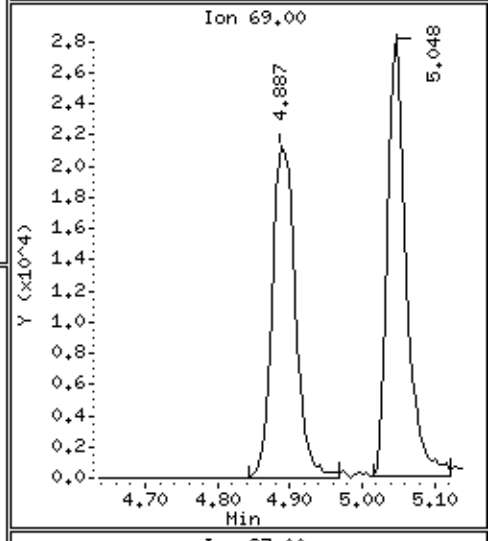
Concentration: 51.7 ppb

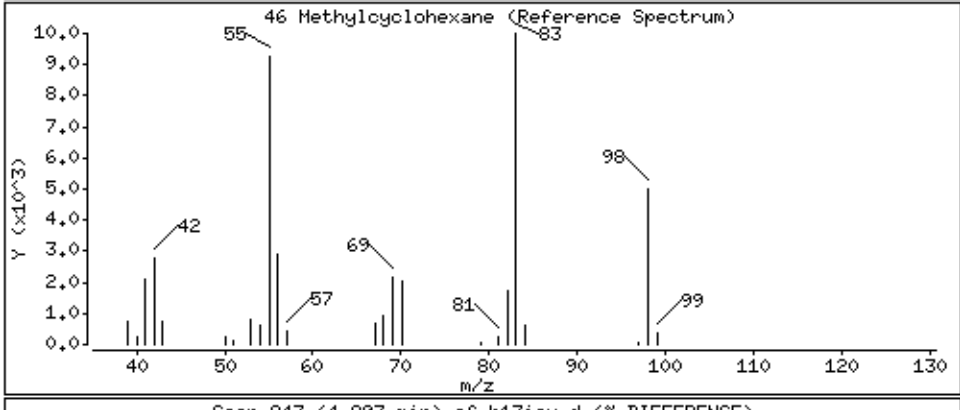
Review Code:

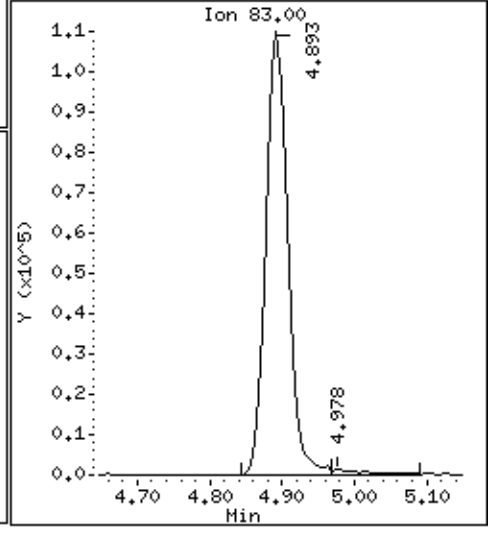


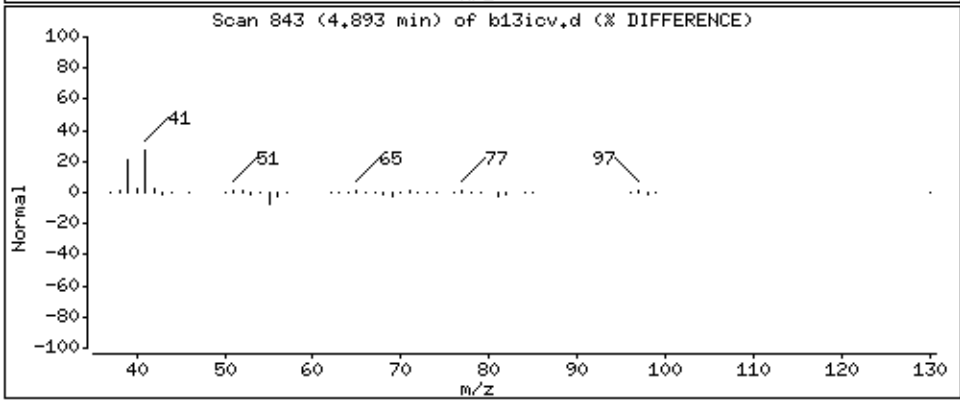












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

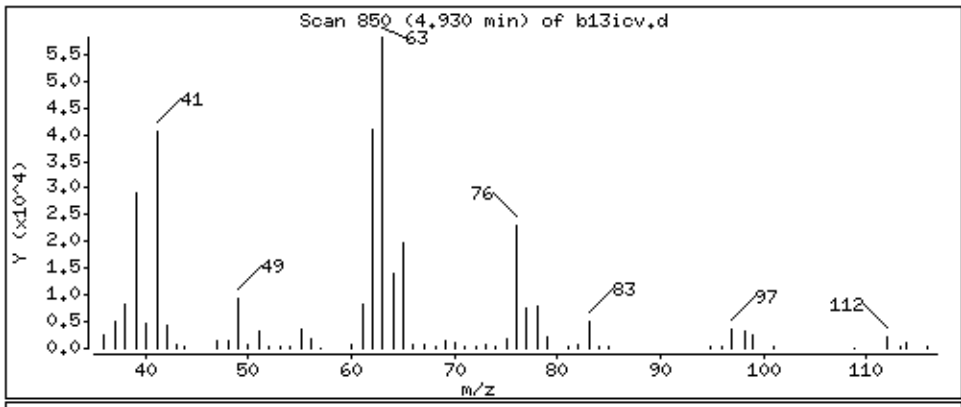
Column phase: DB-624

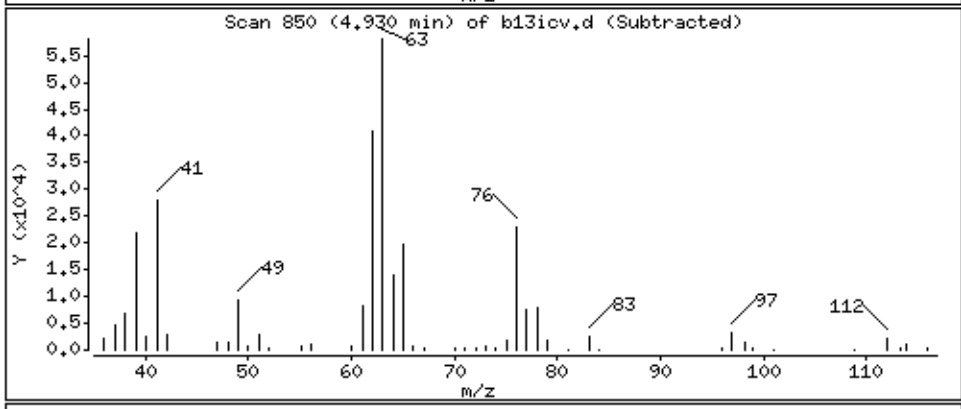
Column diameter: 0.18

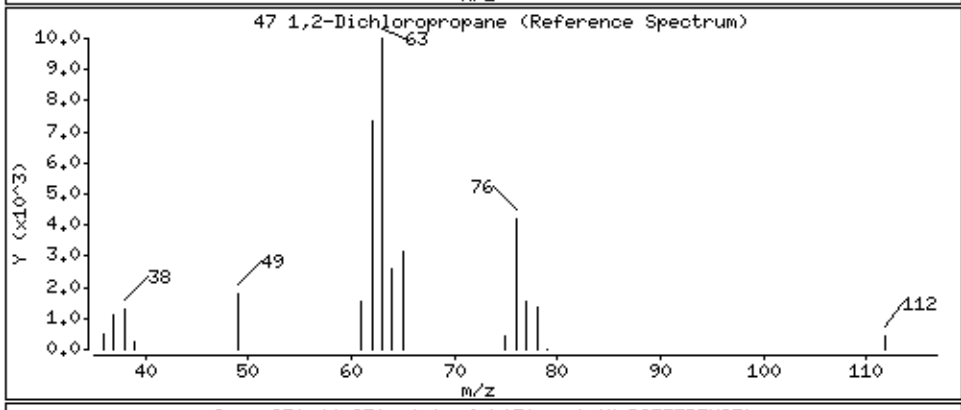
47 1,2-Dichloropropane

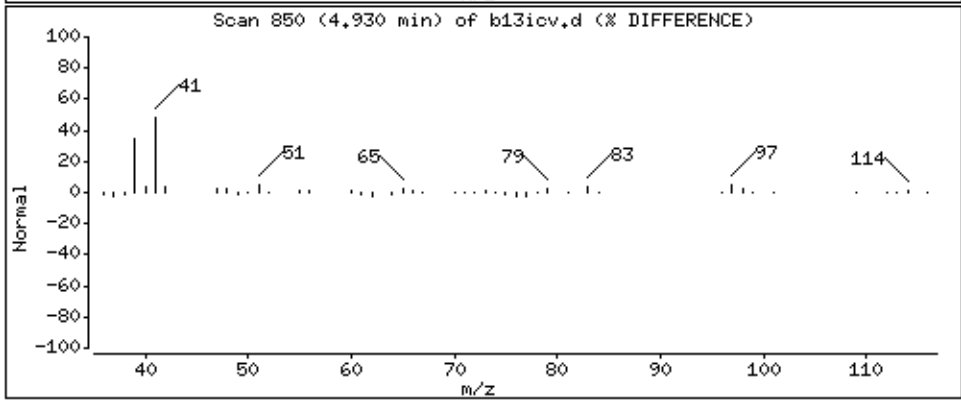
Concentration: 49.8 ppb

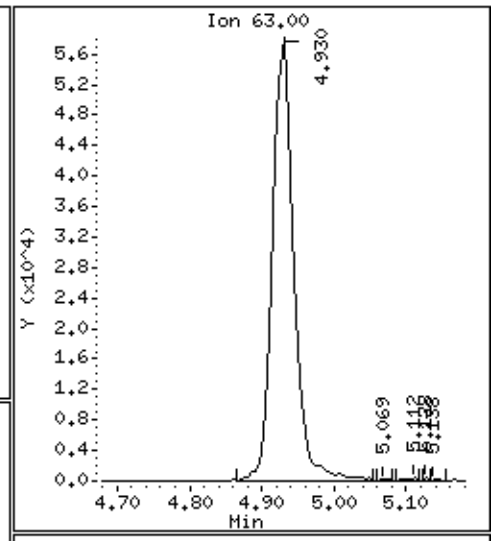
Review Code:

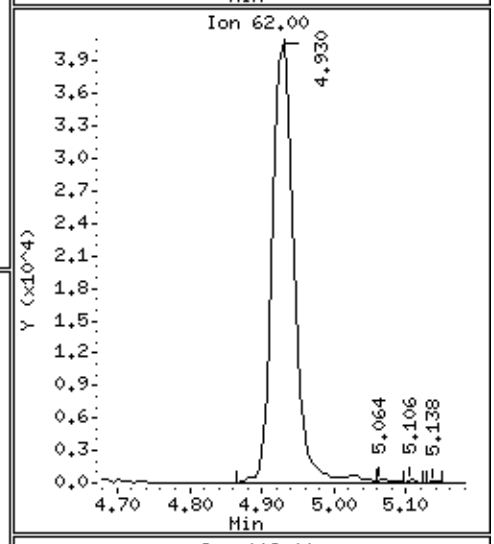


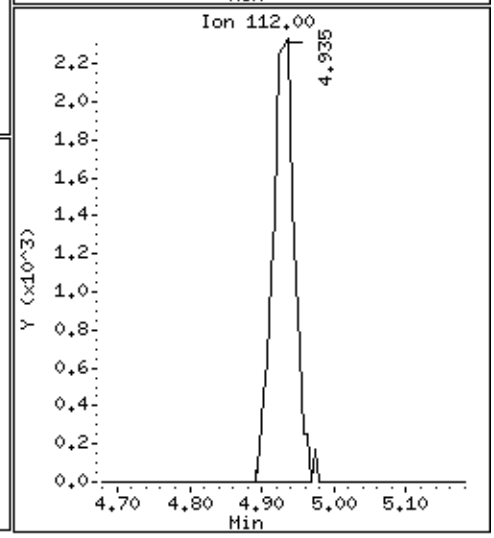












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

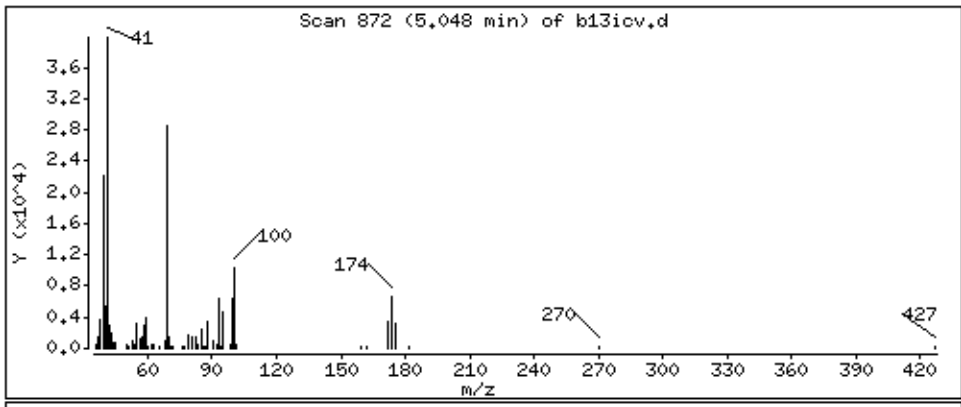
Column phase: DB-624

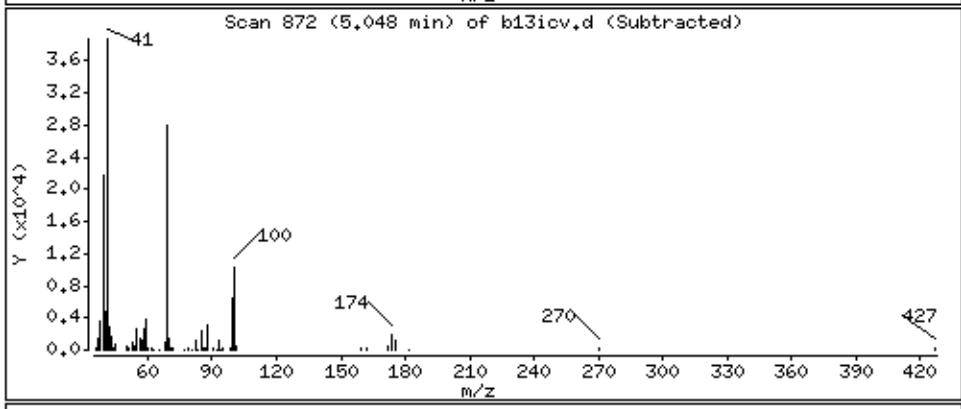
Column diameter: 0.18

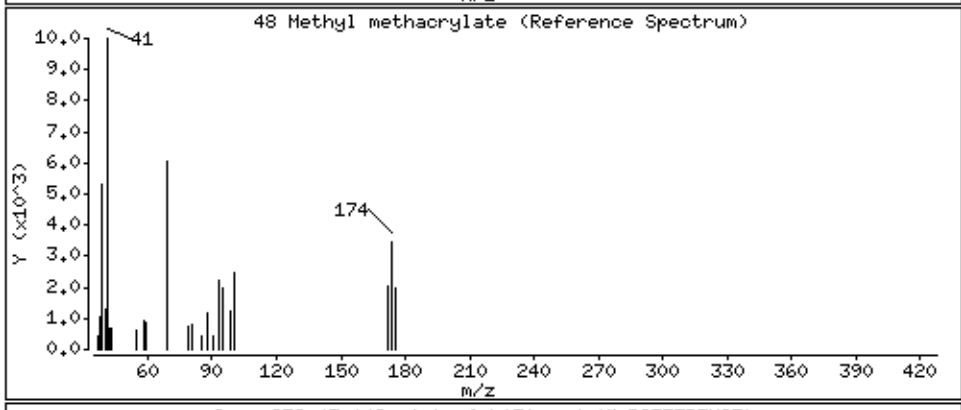
48 Methyl methacrylate

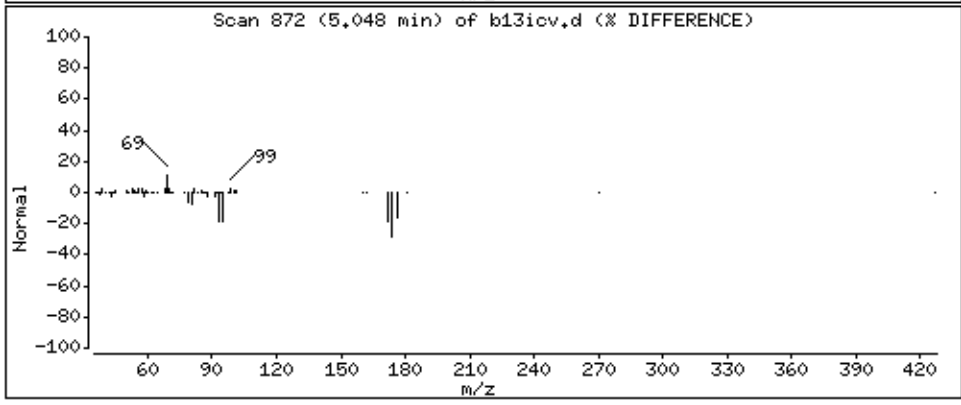
Concentration: 53.0 ppb

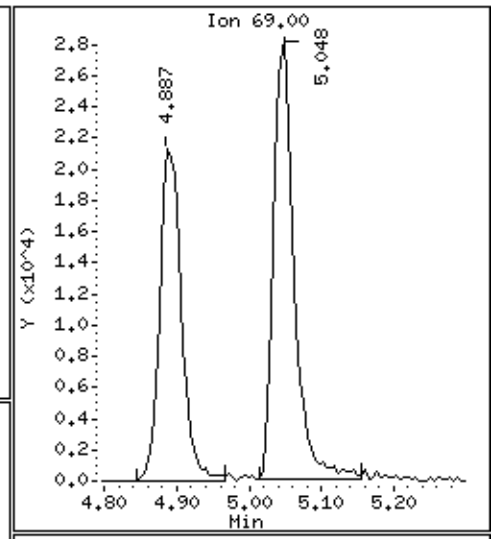
Review Code:

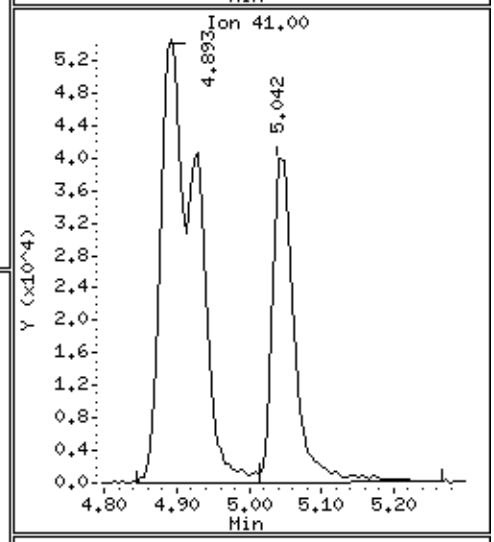


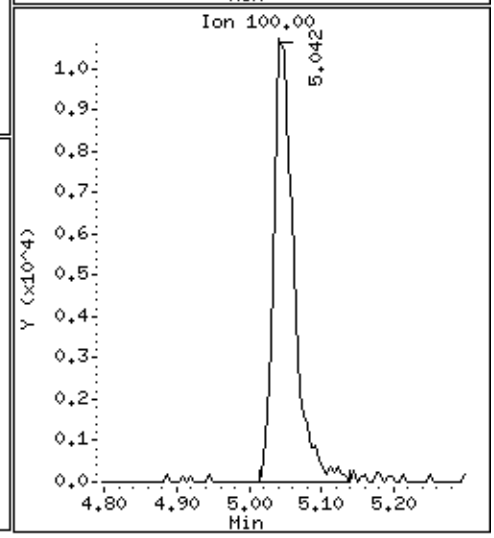












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

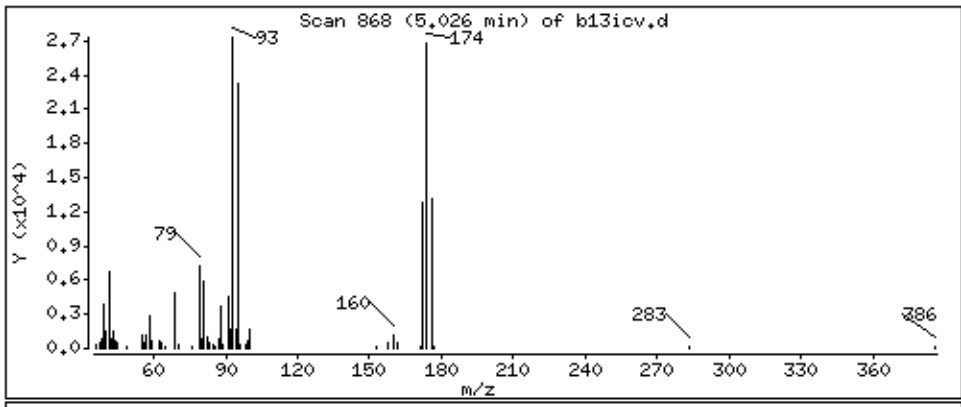
Column phase: DB-624

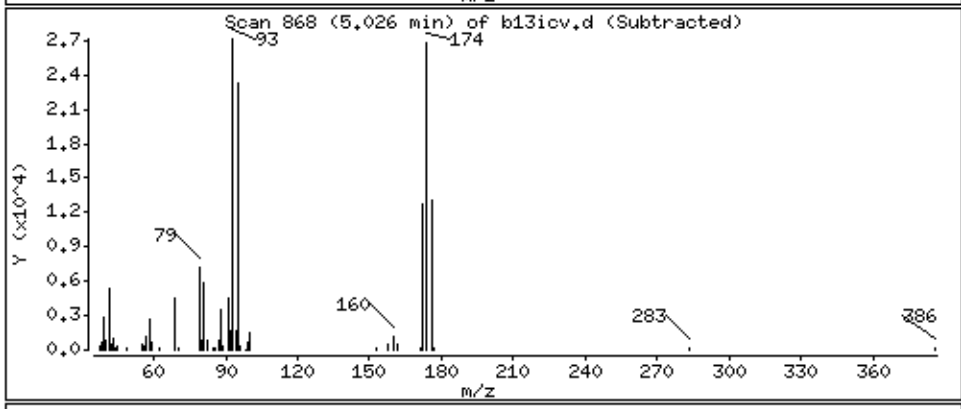
Column diameter: 0.18

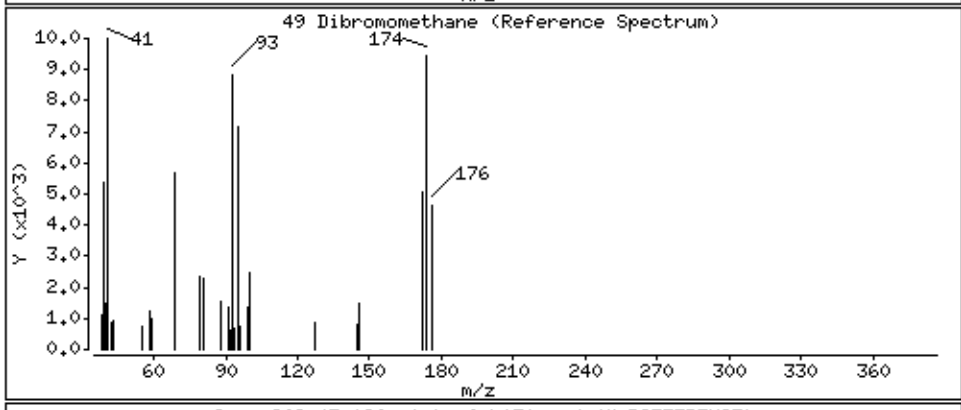
49 Dibromomethane

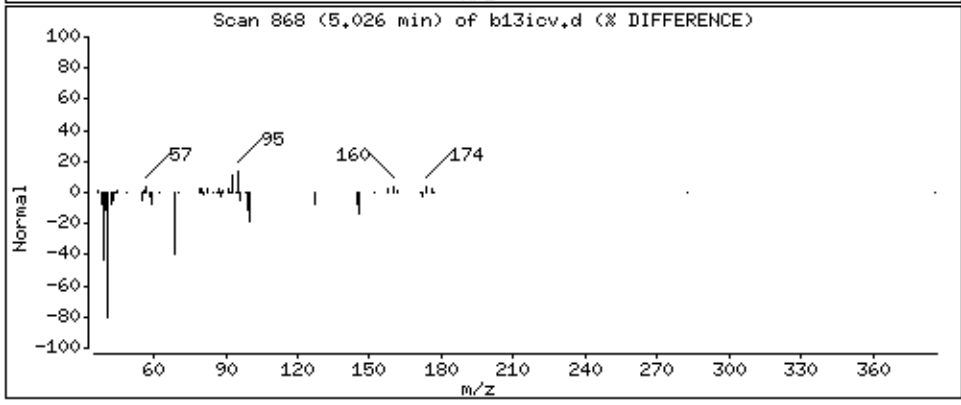
Concentration: 48.0 ppb

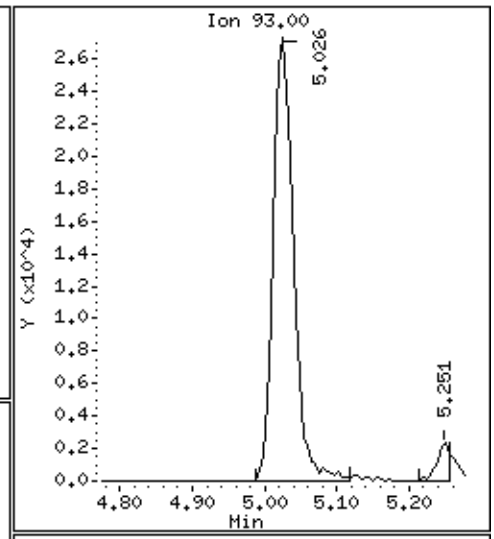
Review Code:

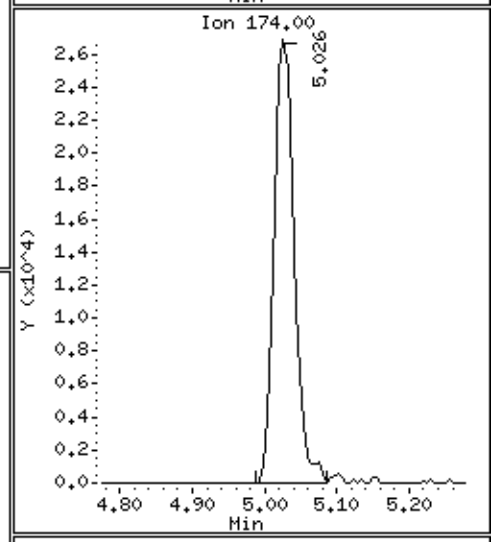


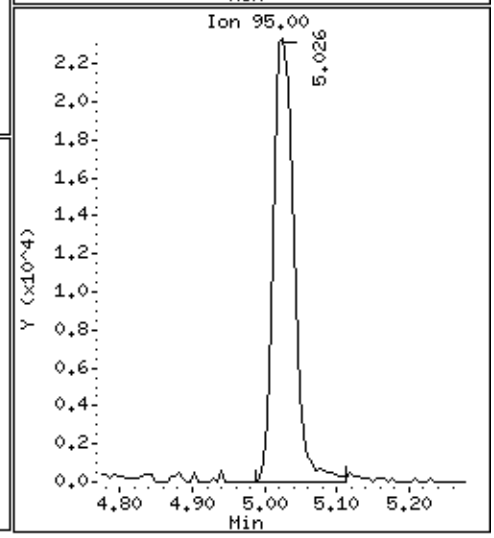












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

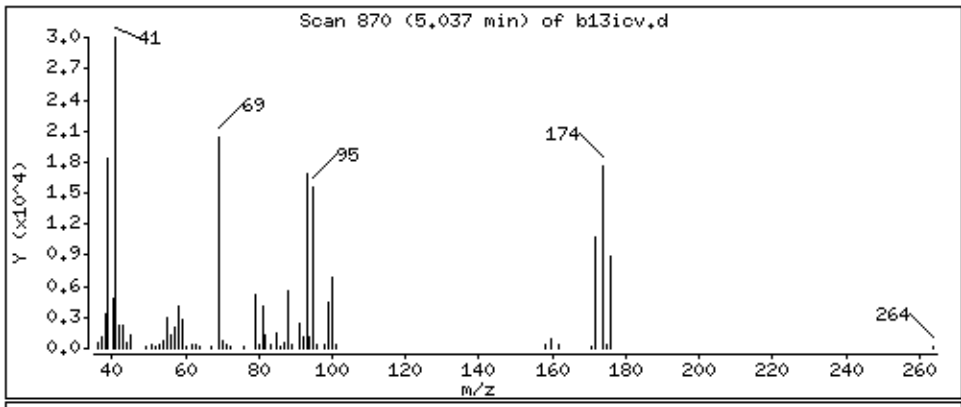
Column phase: DB-624

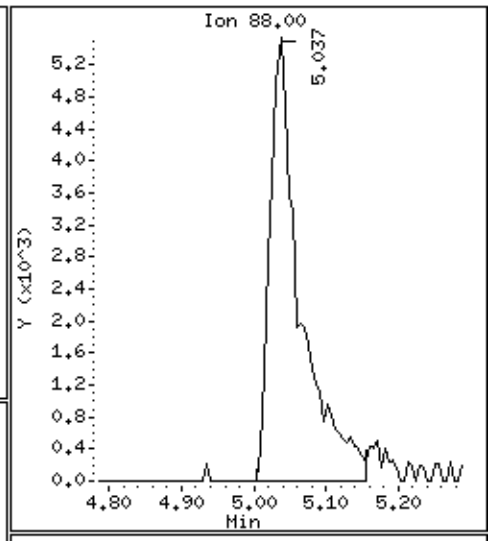
Column diameter: 0.18

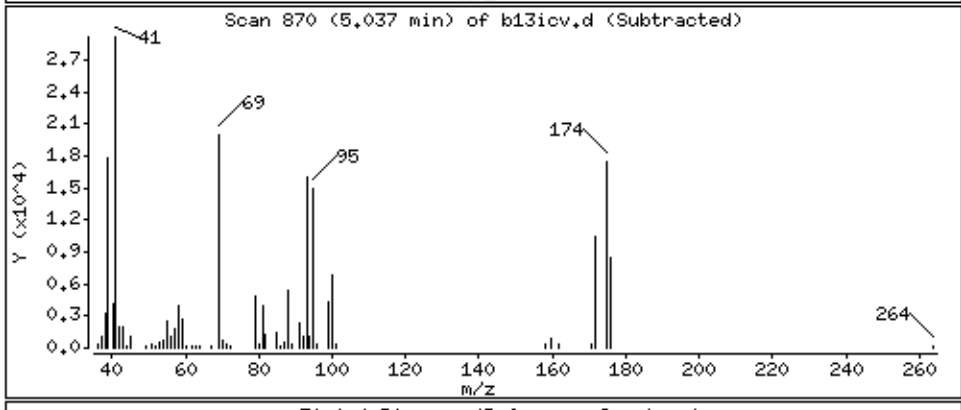
50 1,4-Dioxane

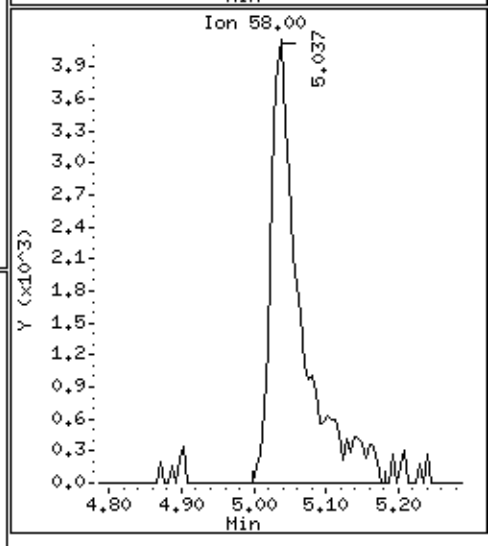
Concentration: 1140 ppb

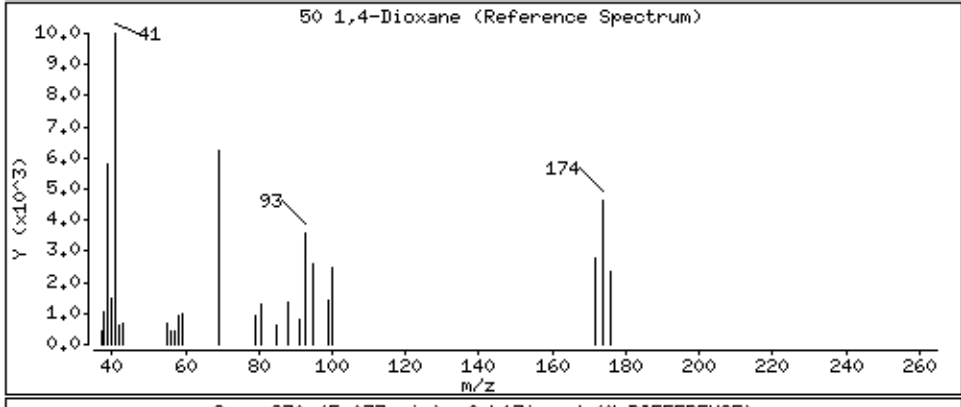
Review Code:

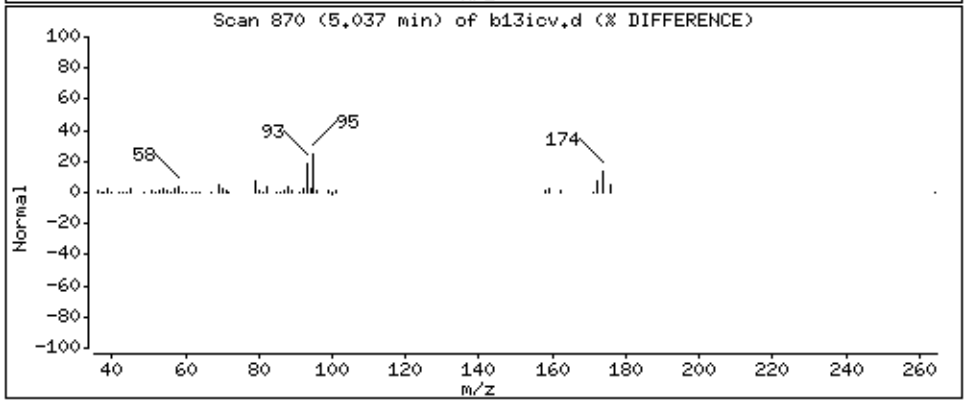












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

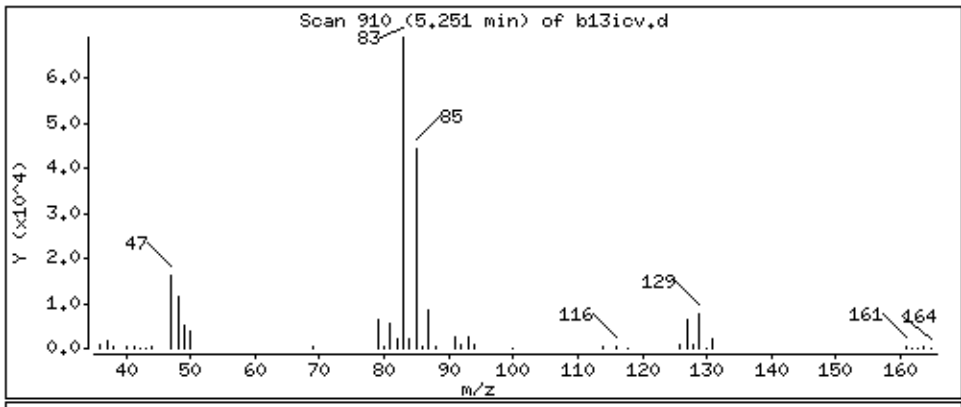
Column phase: DB-624

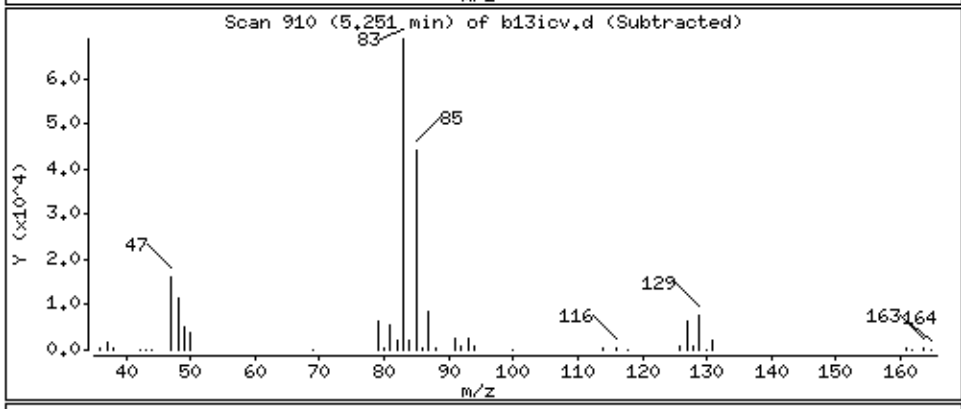
Column diameter: 0.18

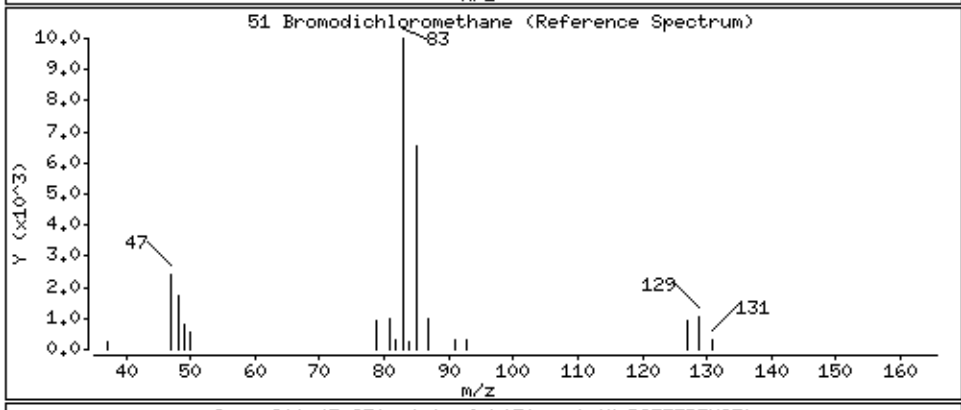
51 Bromodichloromethane

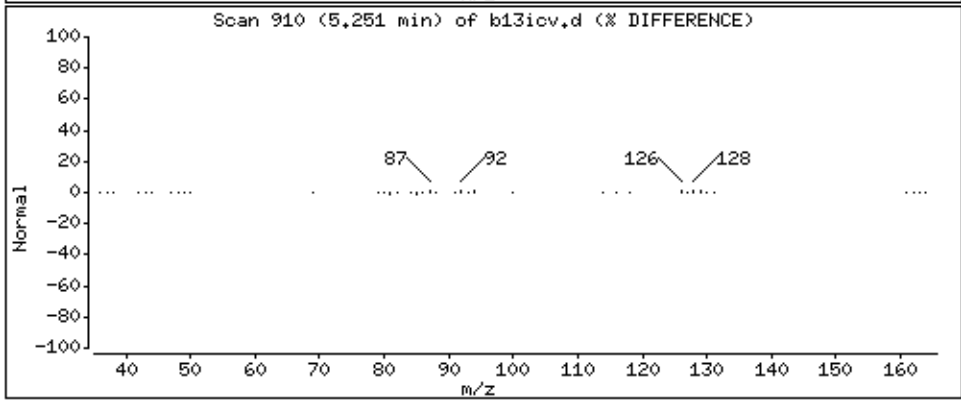
Concentration: 48.9 ppb

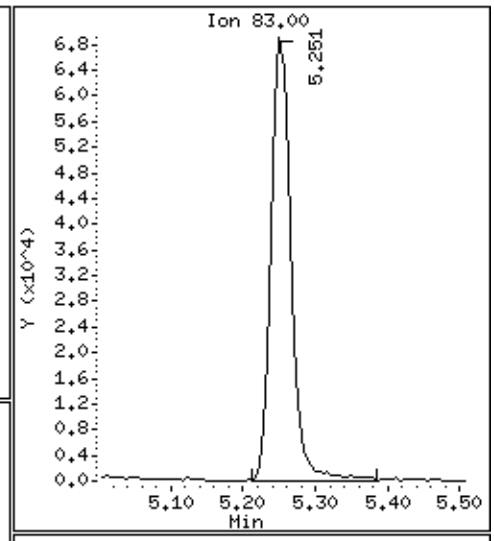
Review Code:

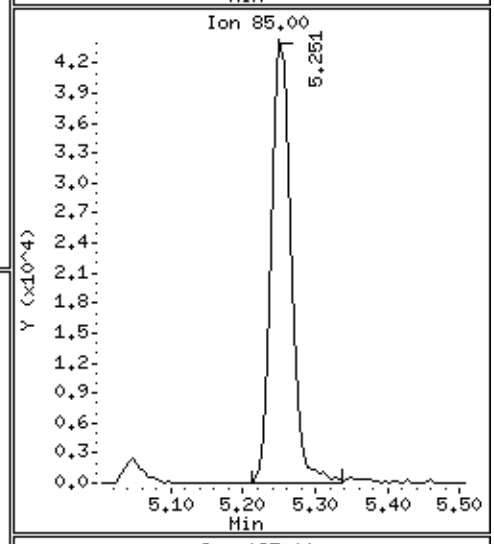


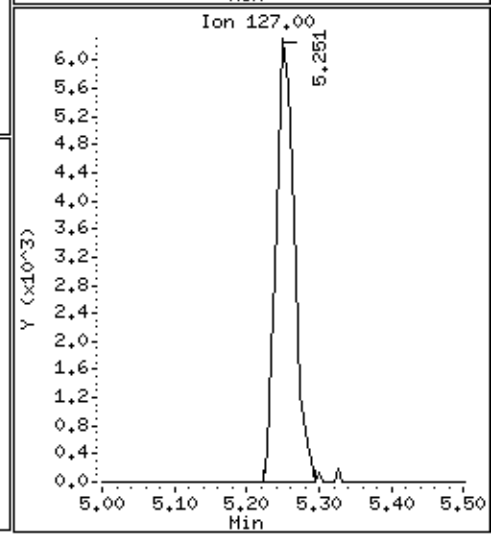












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

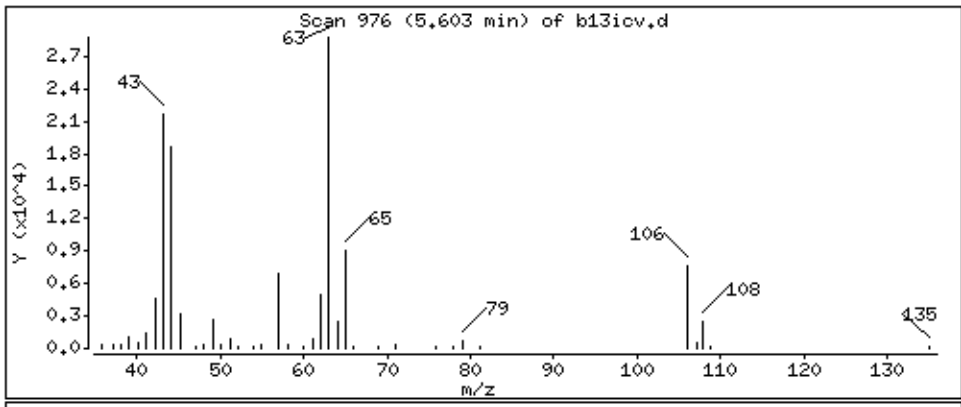
Column phase: DB-624

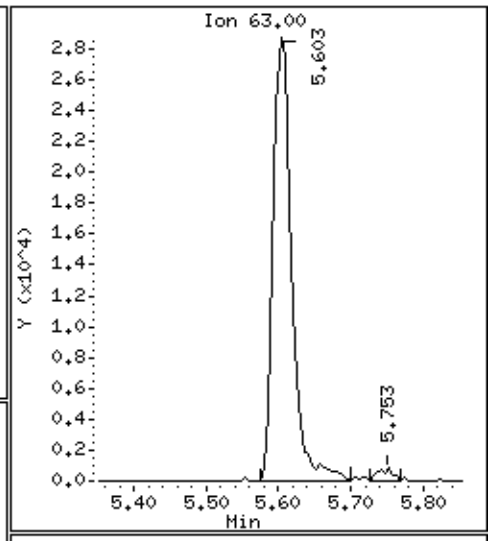
Column diameter: 0.18

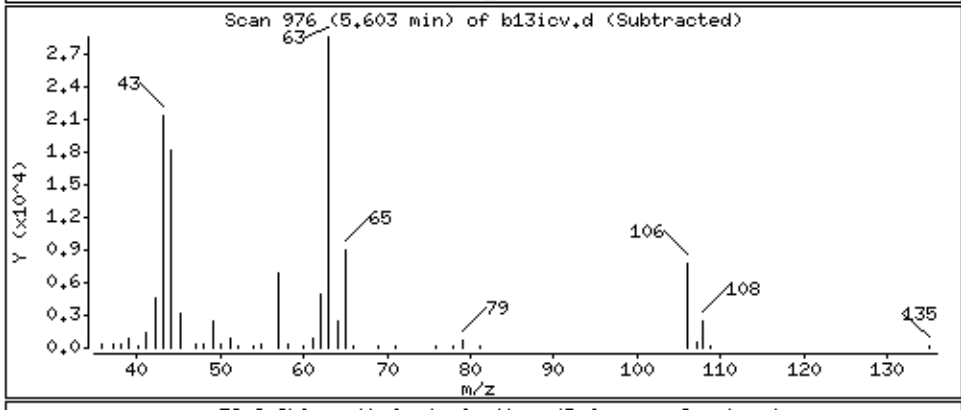
52 2-Chloroethyl vinyl ether

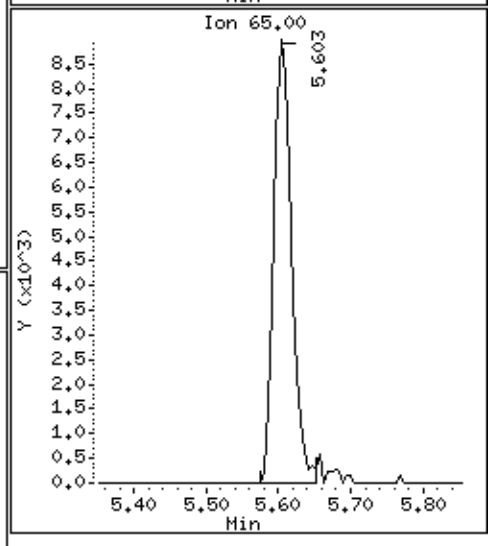
Concentration: 53.3 ppb

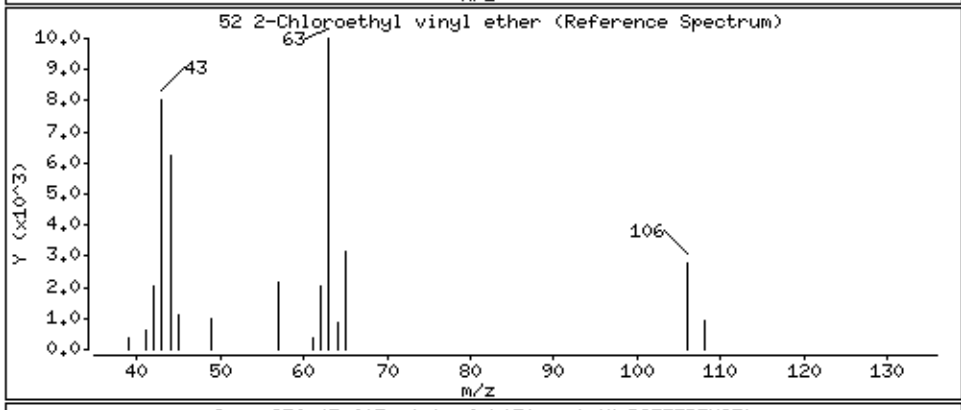
Review Code:

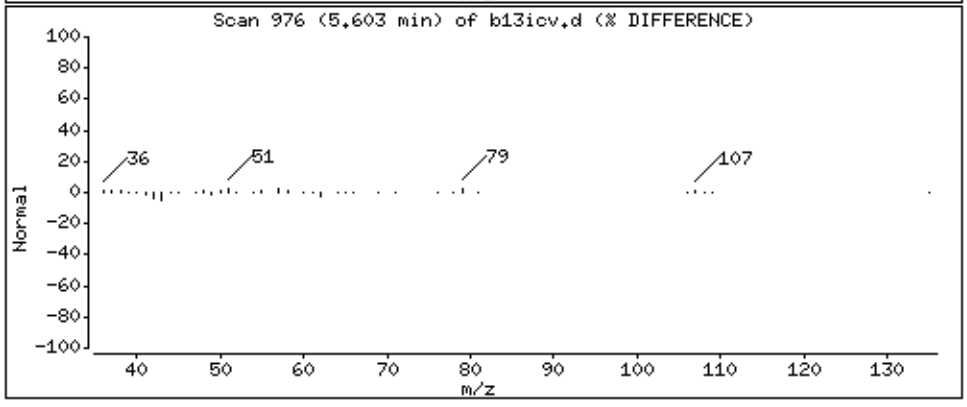












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

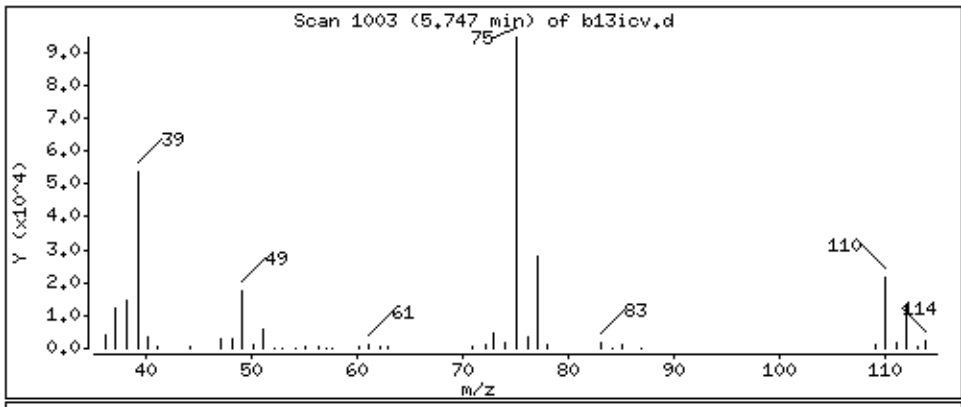
Column phase: DB-624

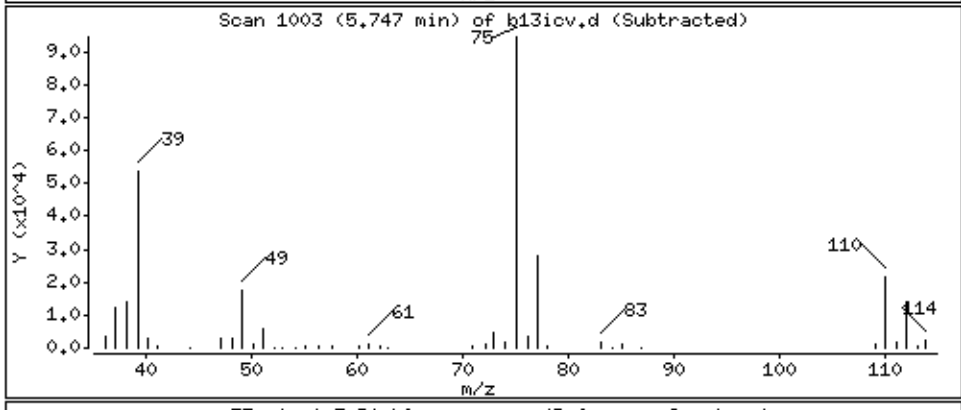
Column diameter: 0.18

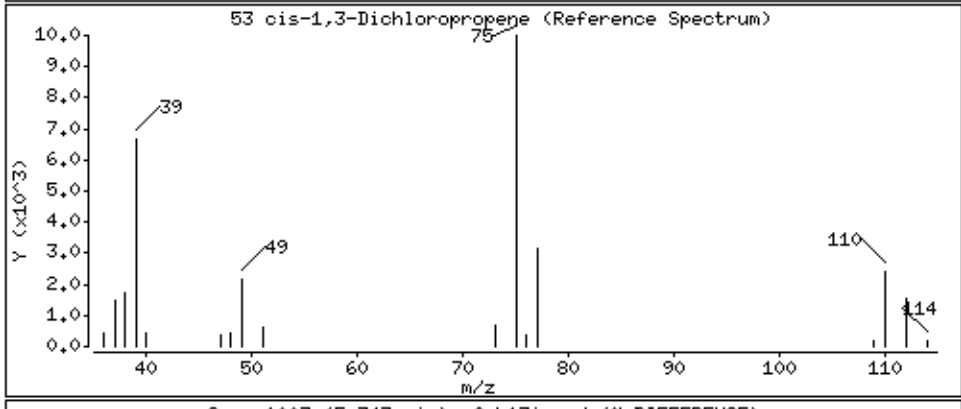
53 cis-1,3-Dichloropropene

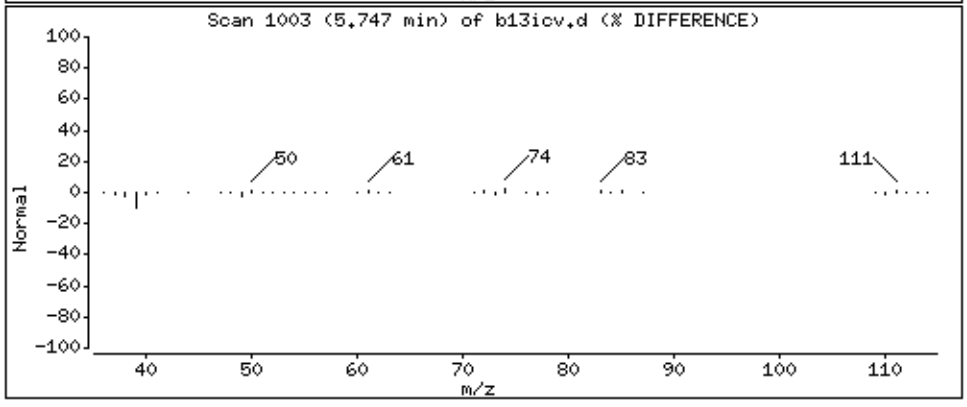
Concentration: 52.4 ppb

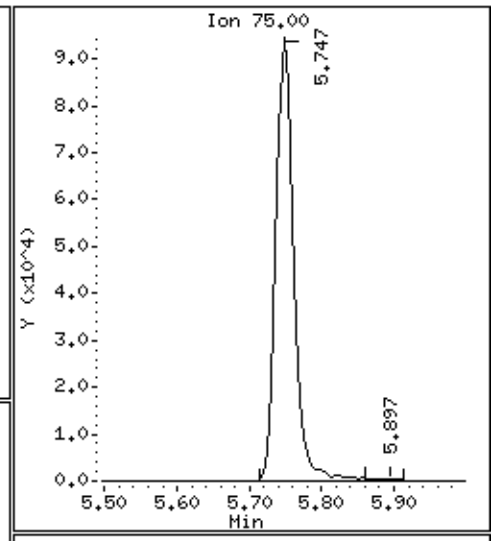
Review Code:

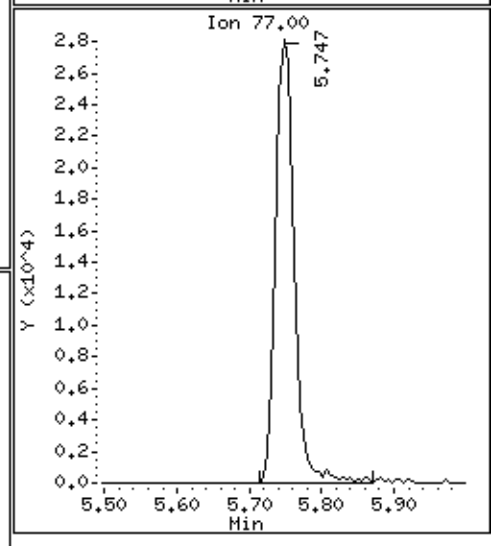












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

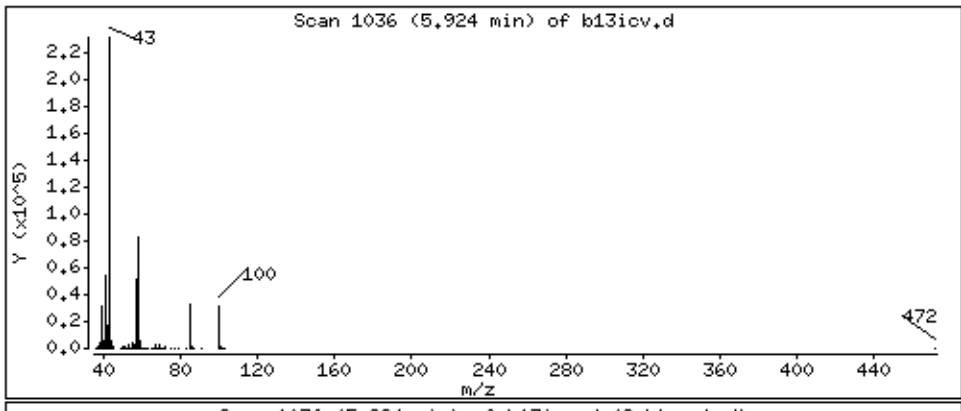
Column phase: DB-624

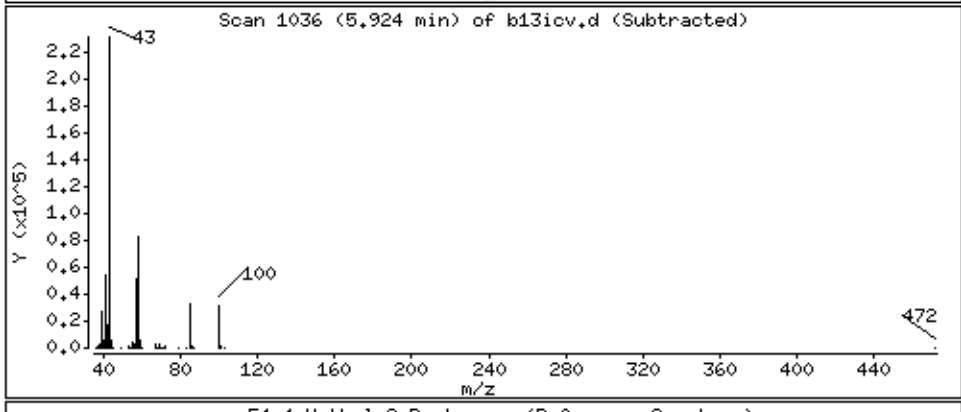
Column diameter: 0.18

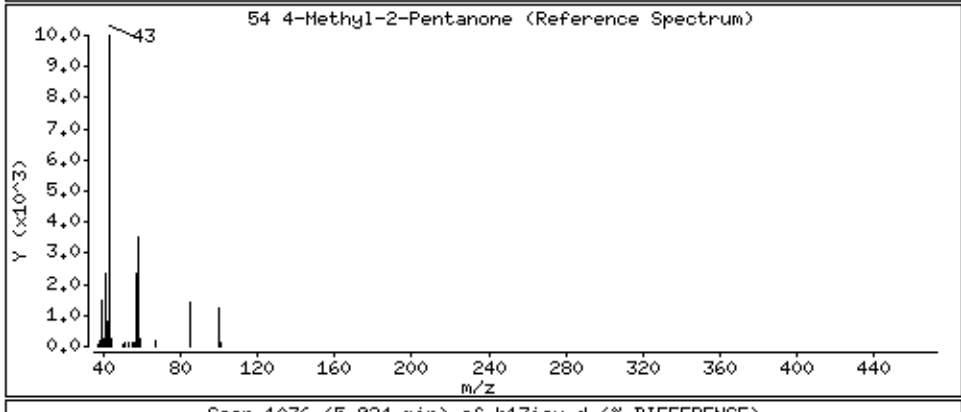
54 4-Methyl-2-Pentanone

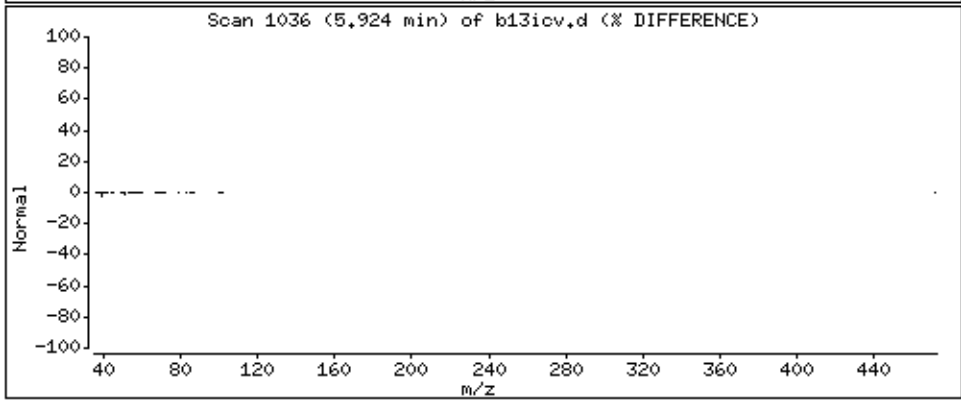
Concentration: 266 ppb

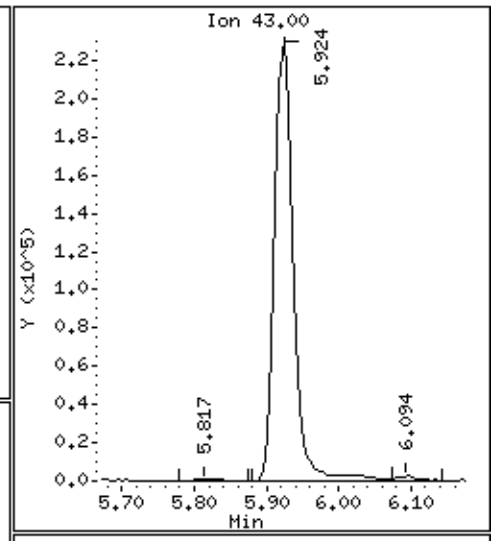
Review Code:

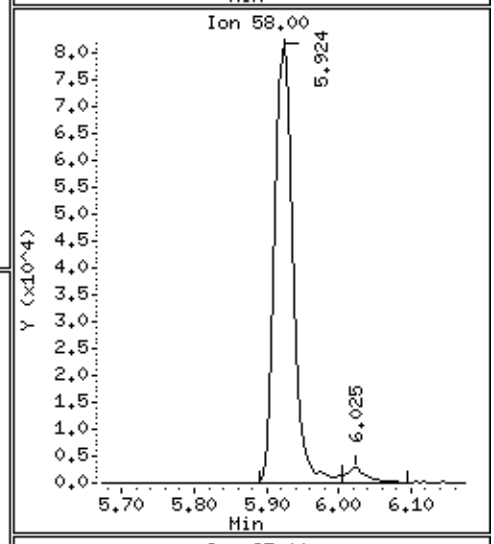


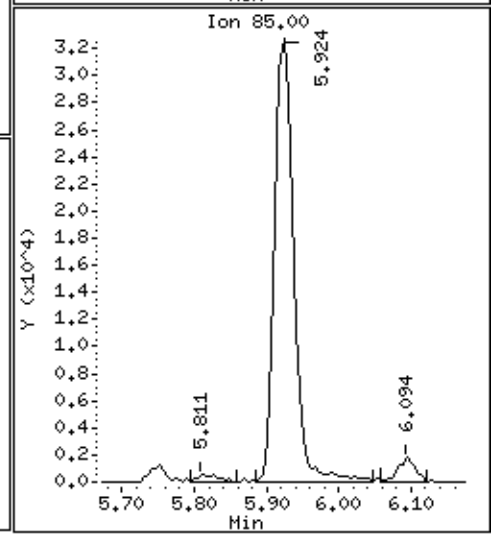












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

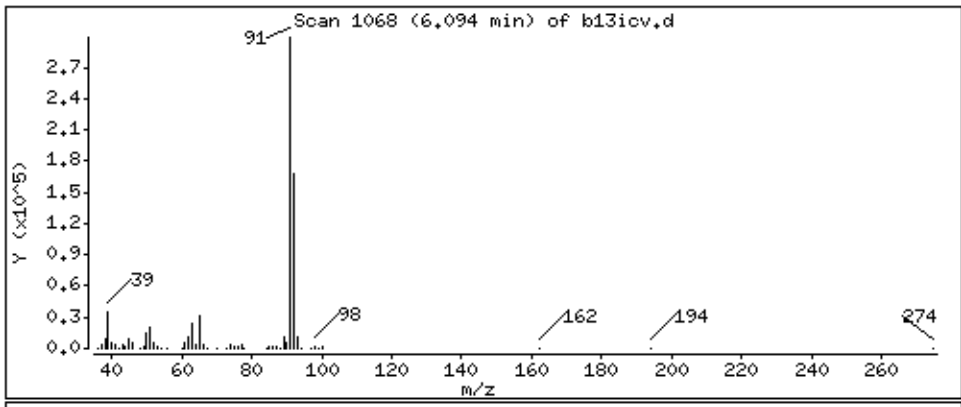
Column phase: DB-624

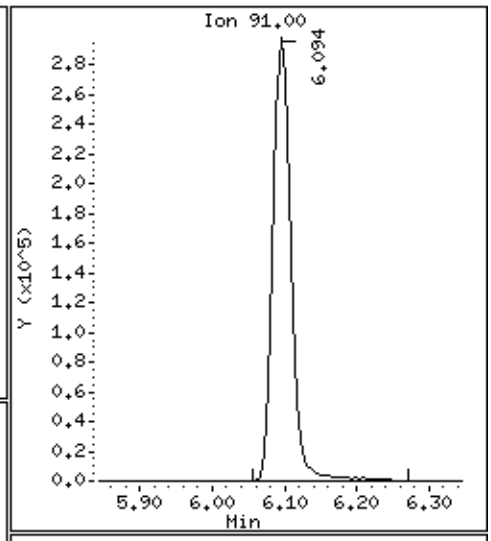
Column diameter: 0.18

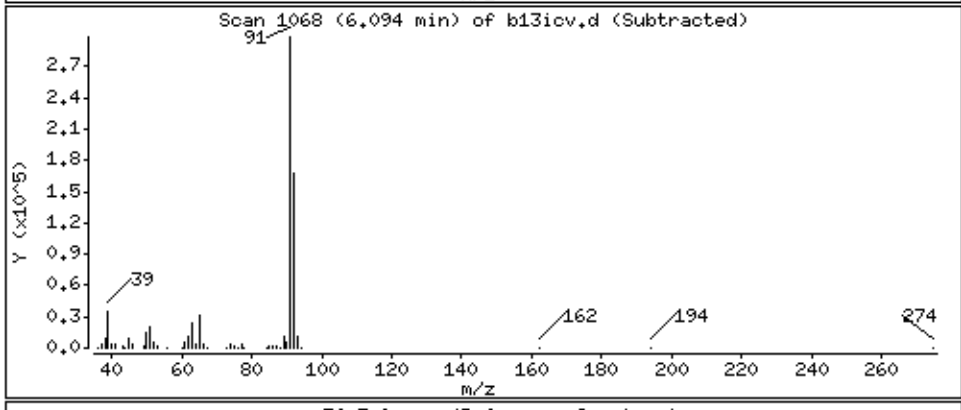
56 Toluene

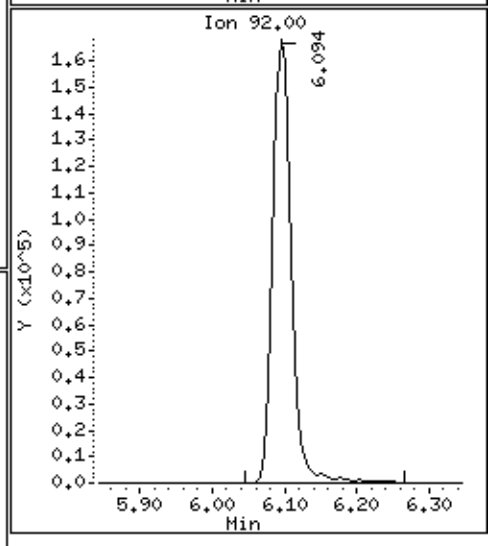
Concentration: 44.8 ppb

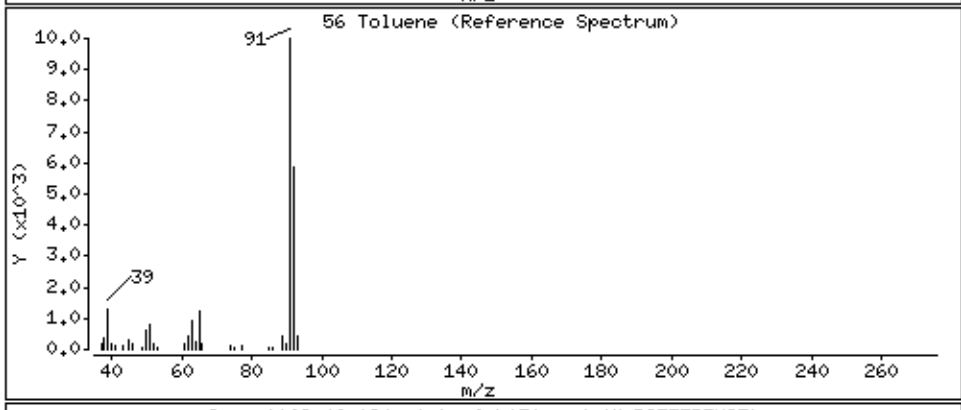
Review Code:

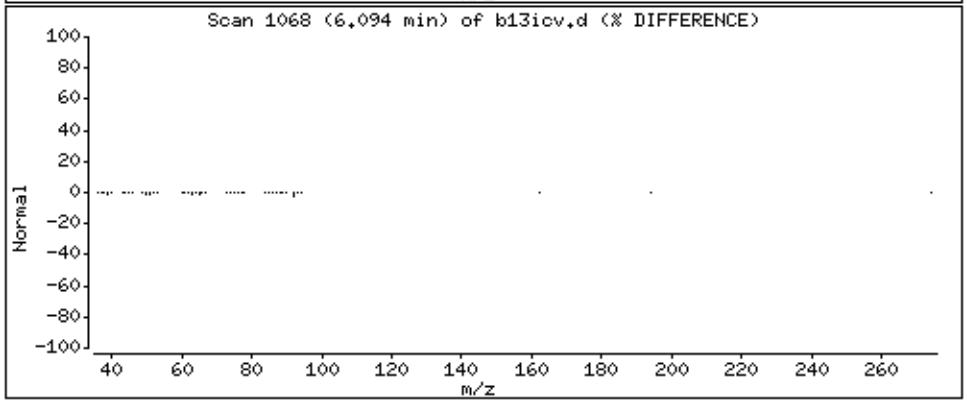












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

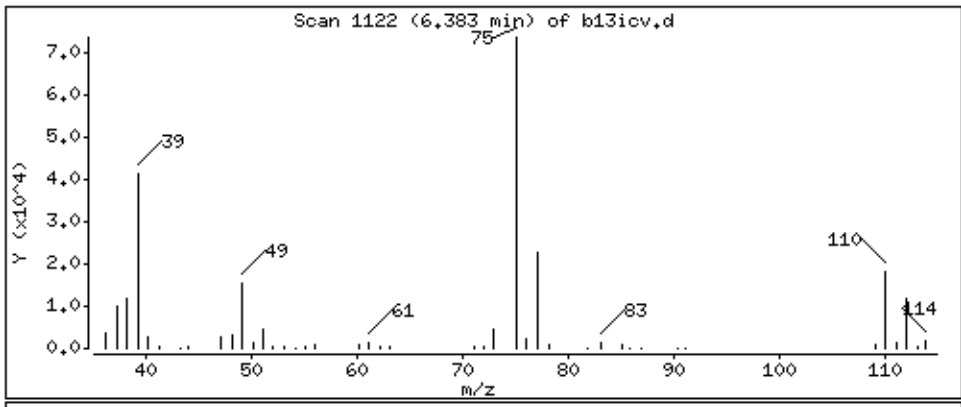
Column phase: DB-624

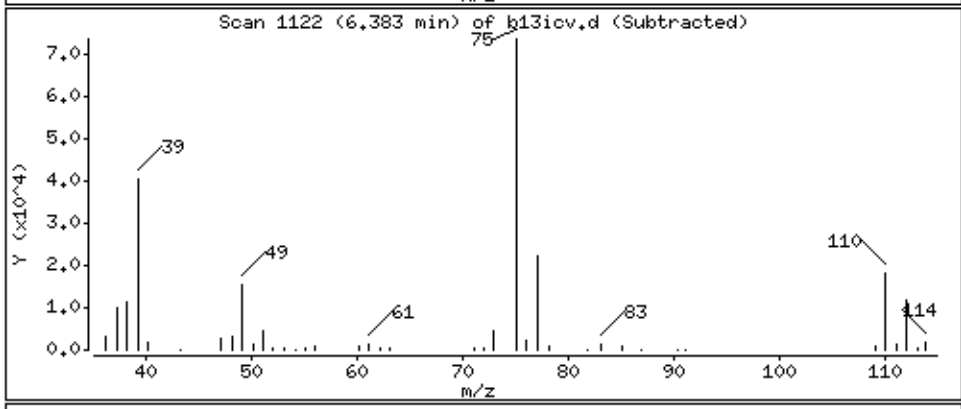
Column diameter: 0.18

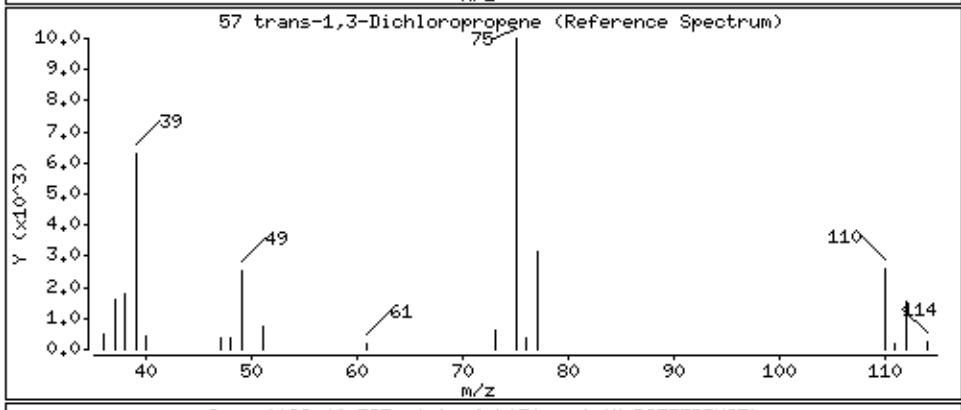
57 trans-1,3-Dichloropropene

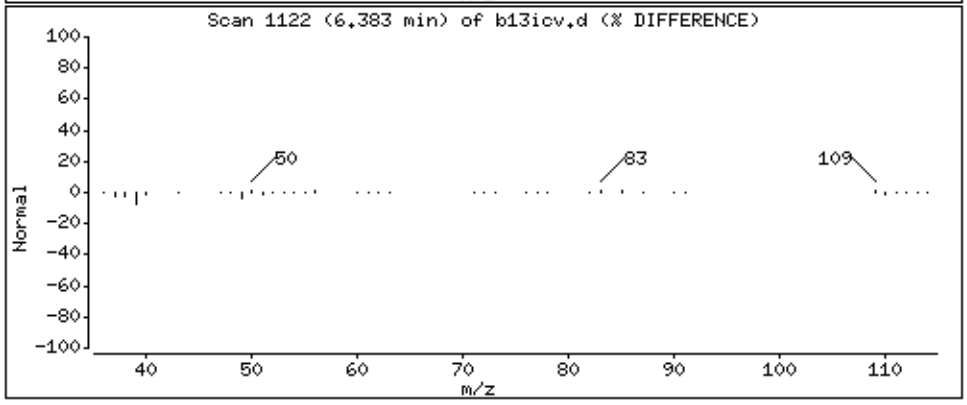
Concentration: 52.5 ppb

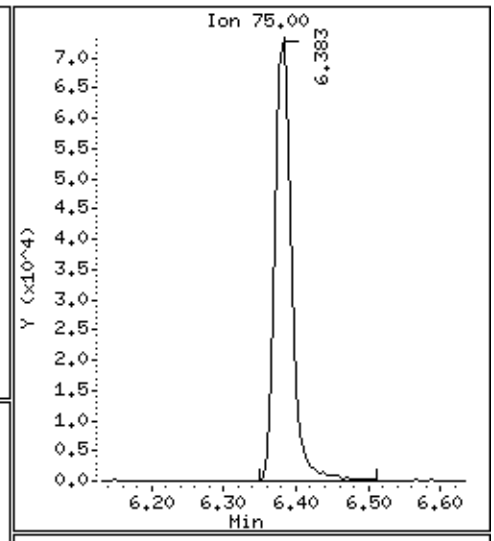
Review Code:

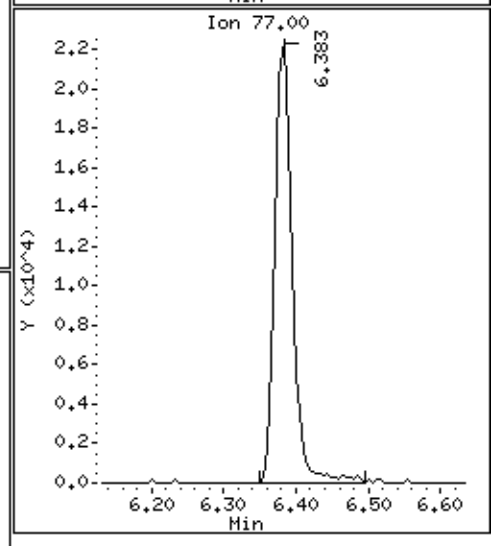












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

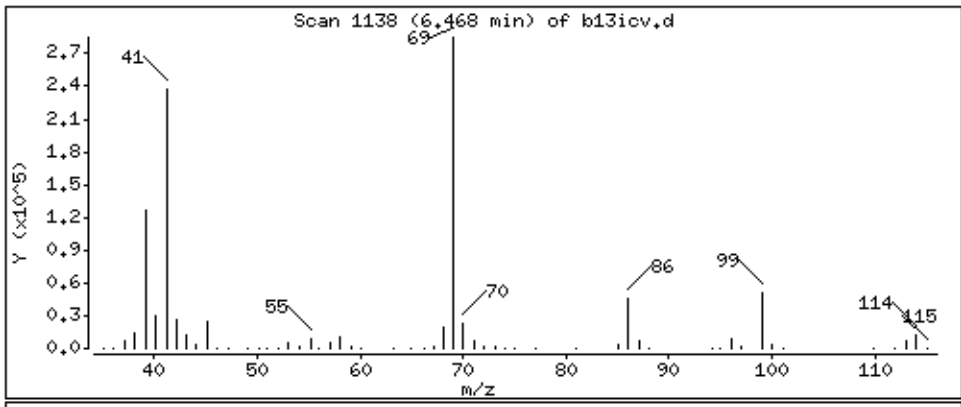
Column phase: DB-624

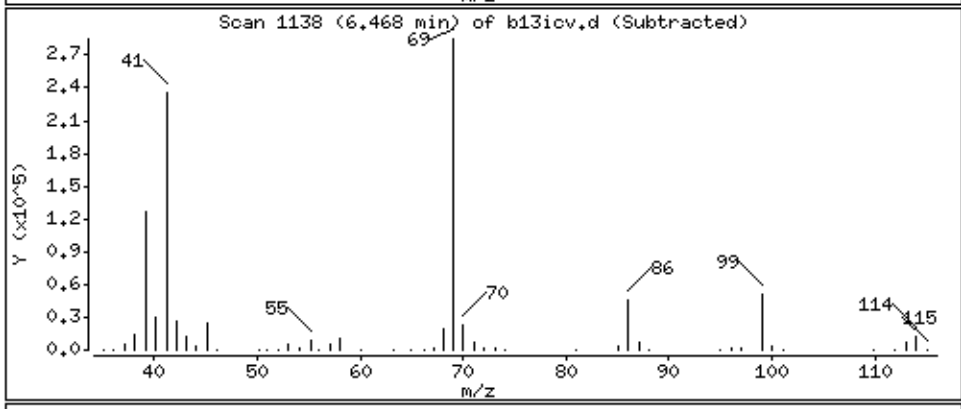
Column diameter: 0.18

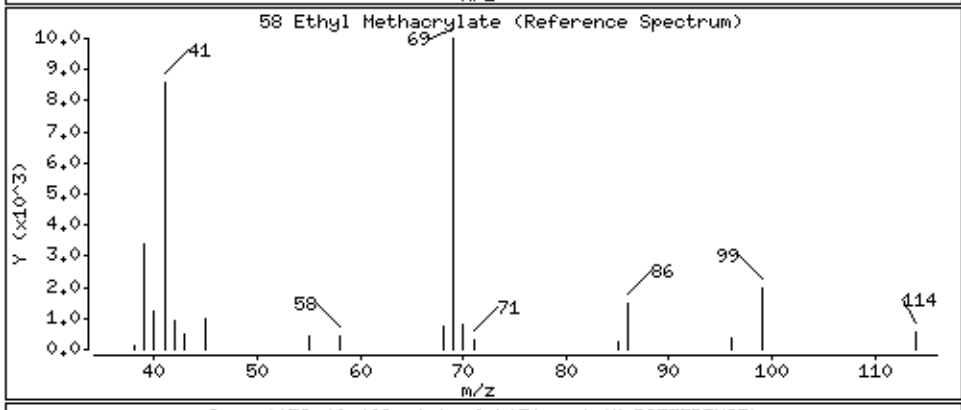
58 Ethyl Methacrylate

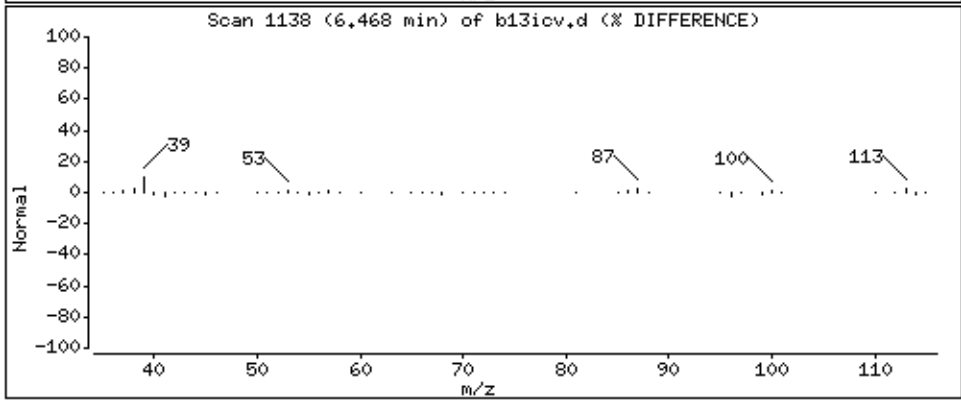
Concentration: 232 ppb

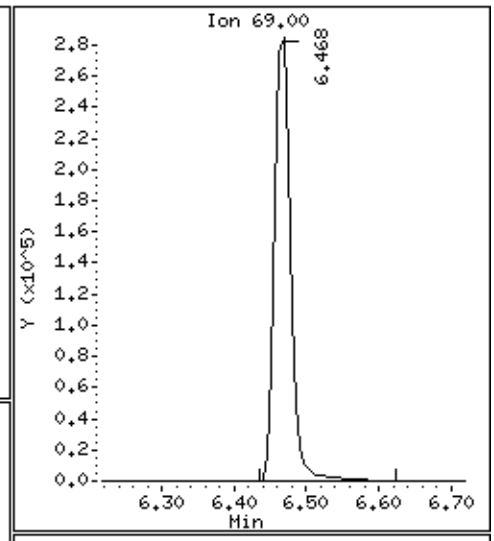
Review Code:

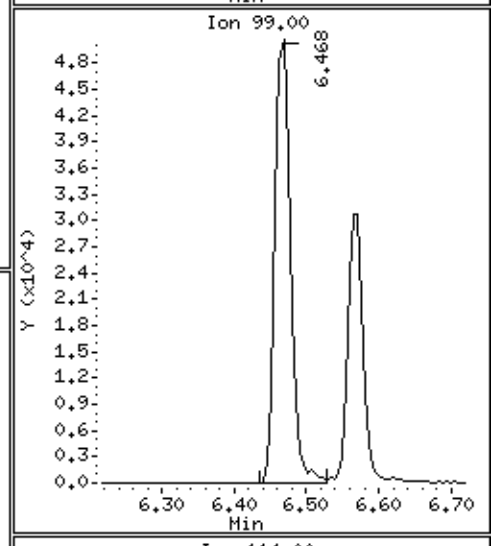


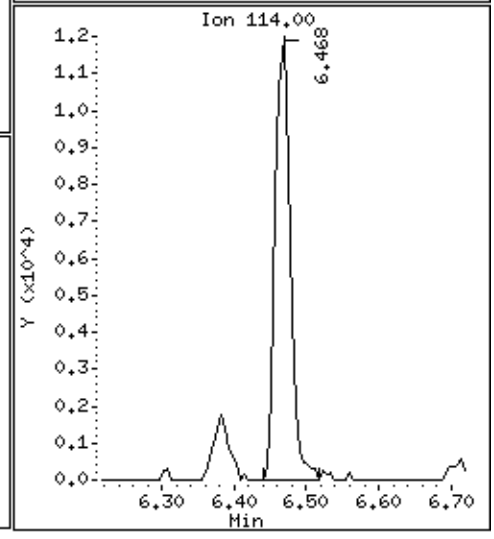












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

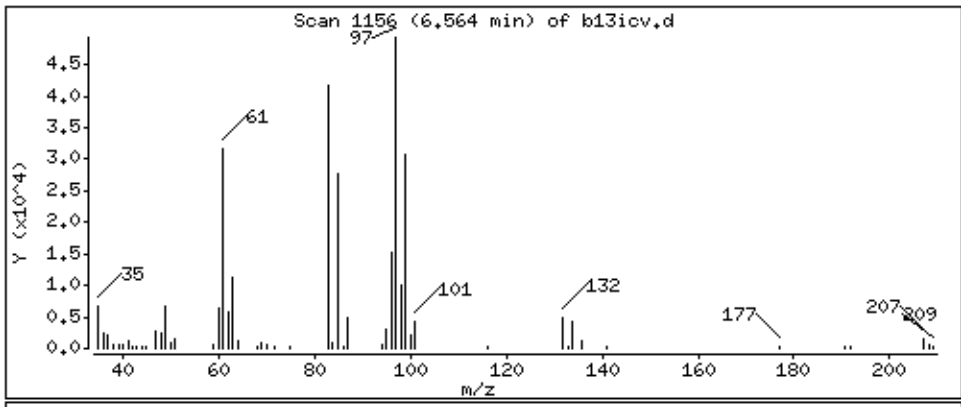
Column phase: DB-624

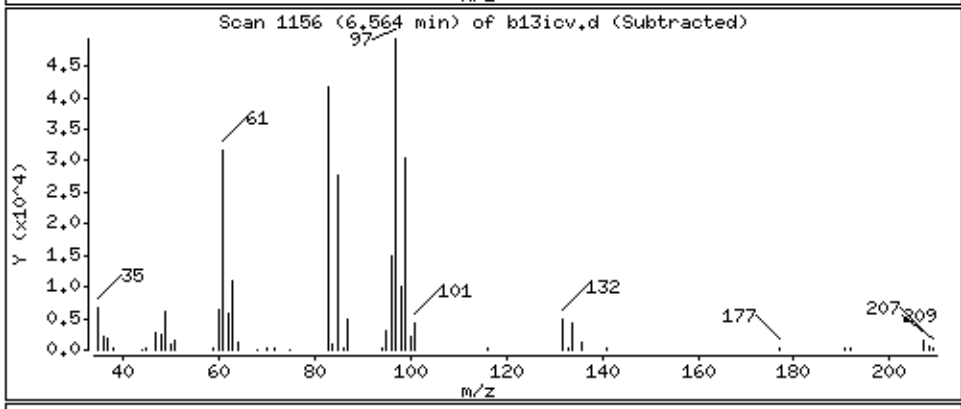
Column diameter: 0.18

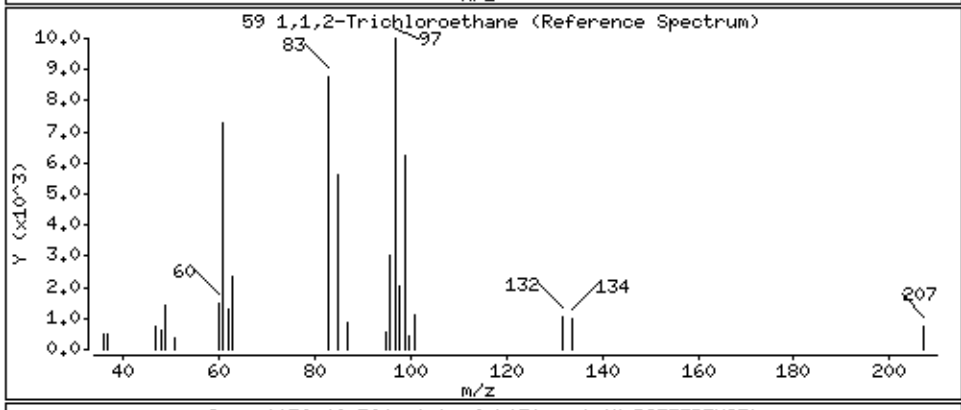
59 1,1,2-Trichloroethane

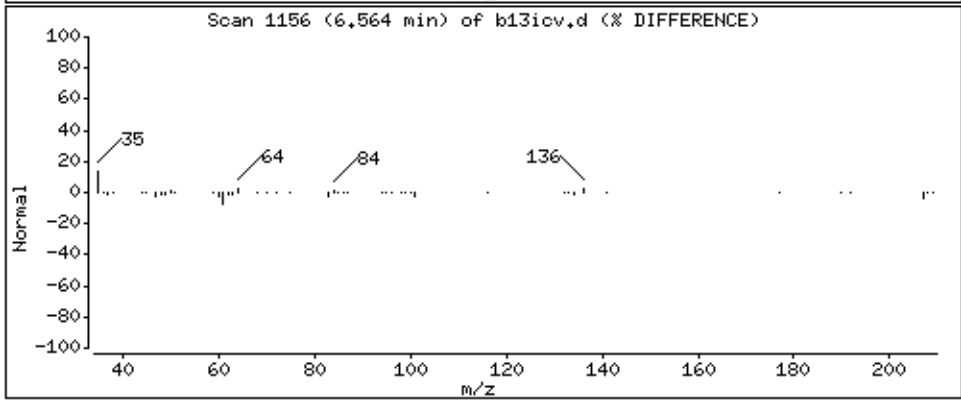
Concentration: 50.9 ppb

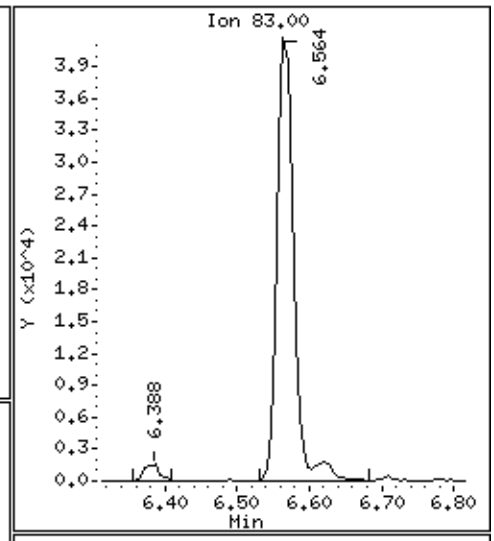
Review Code:

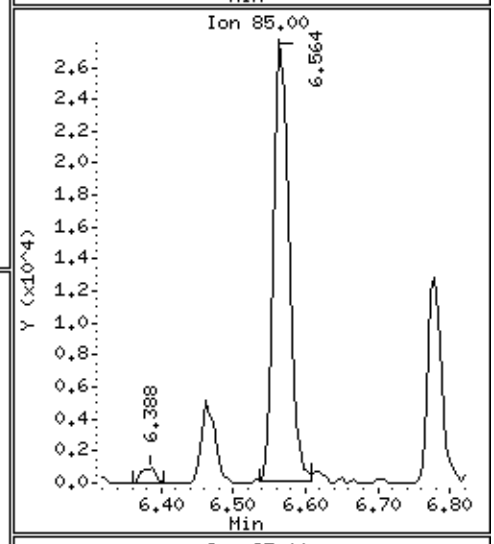


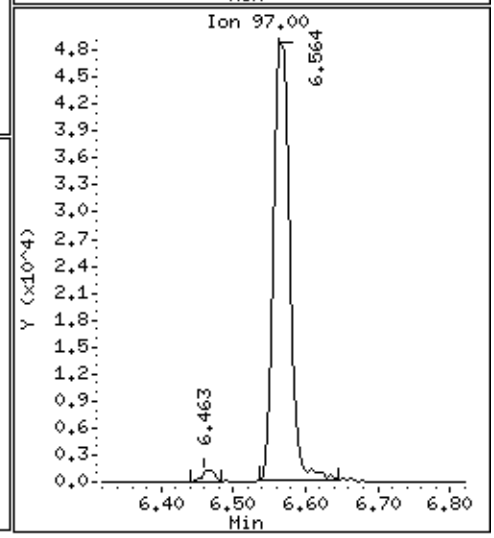












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

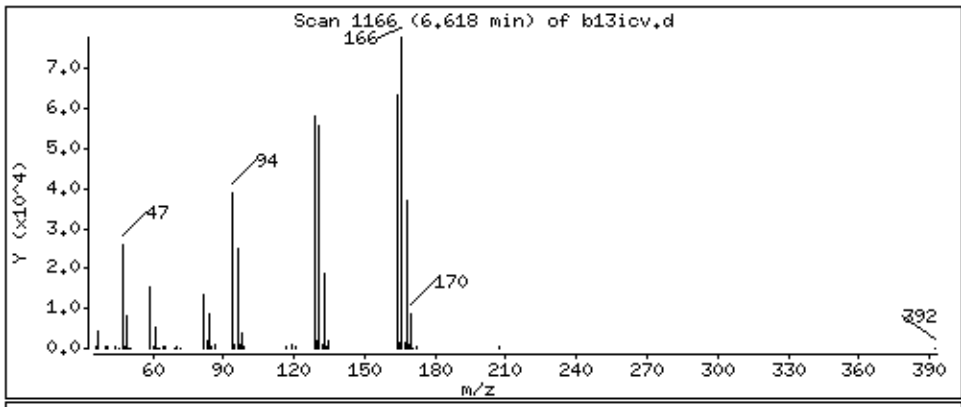
Column phase: DB-624

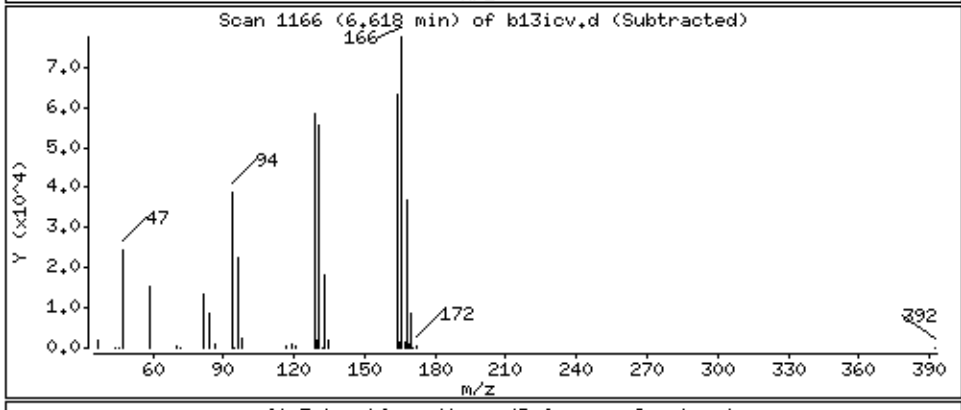
Column diameter: 0.18

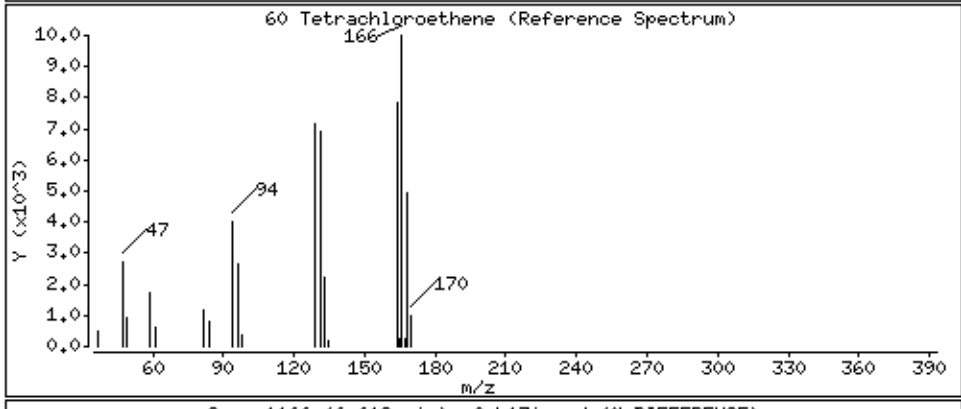
60 Tetrachloroethene

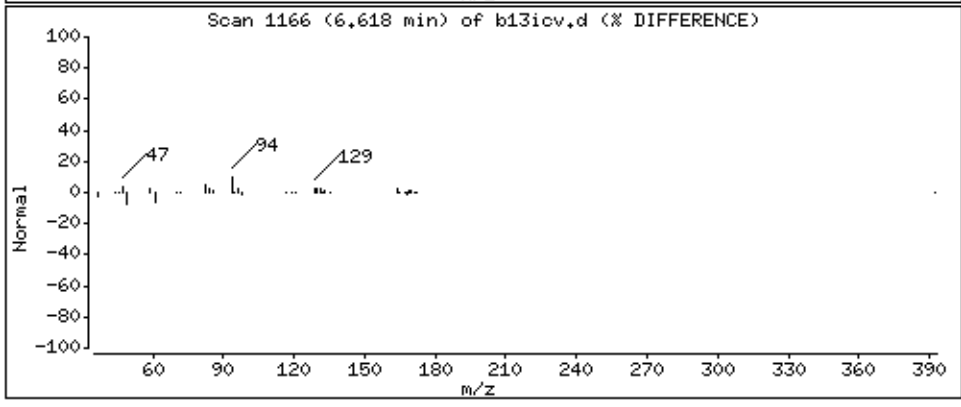
Concentration: 48.6 ppb

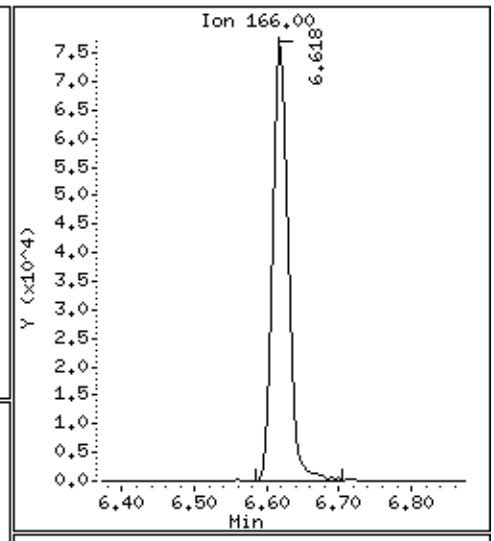
Review Code:

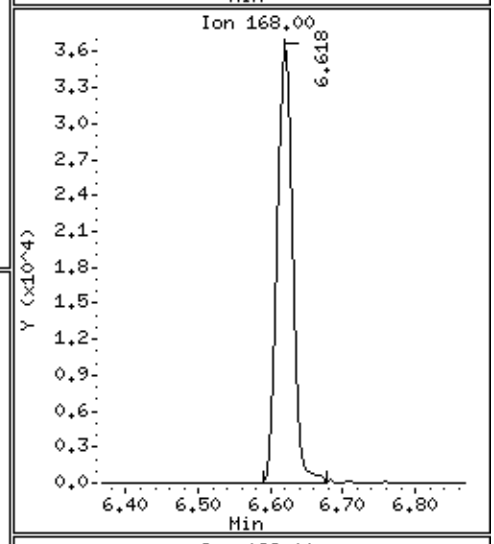


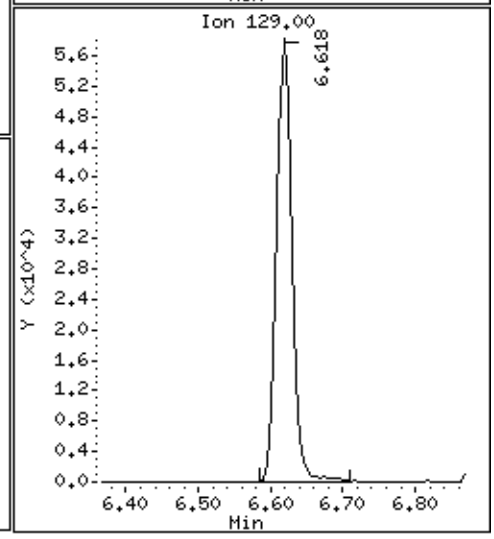












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

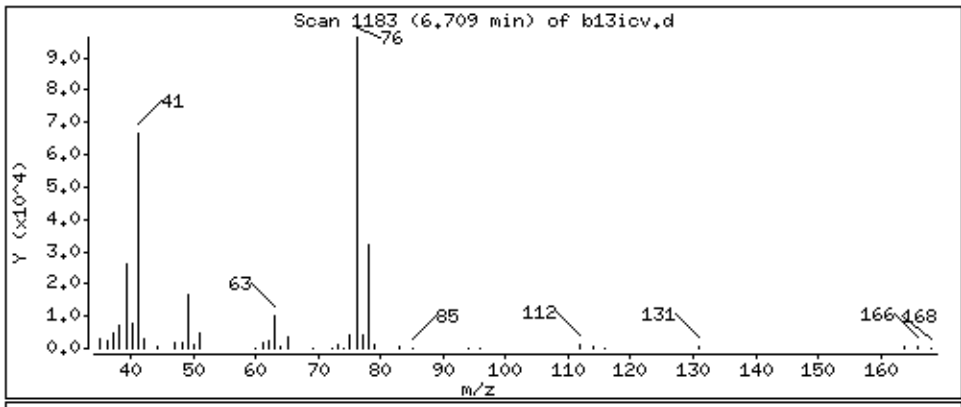
Column phase: DB-624

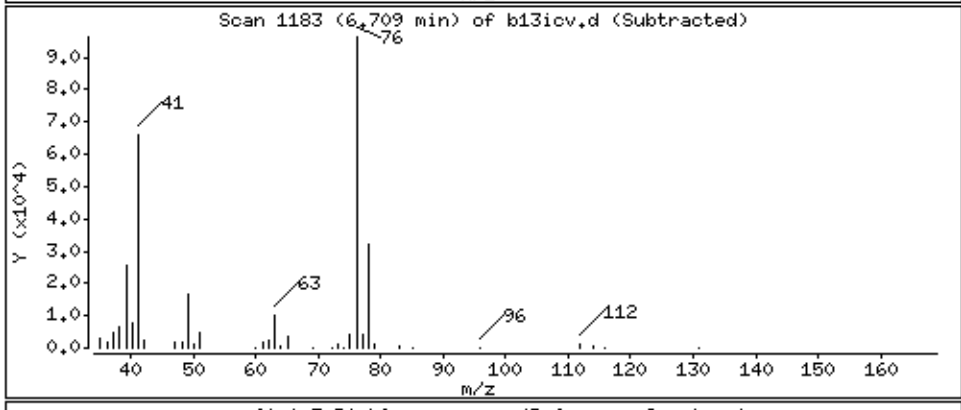
Column diameter: 0.18

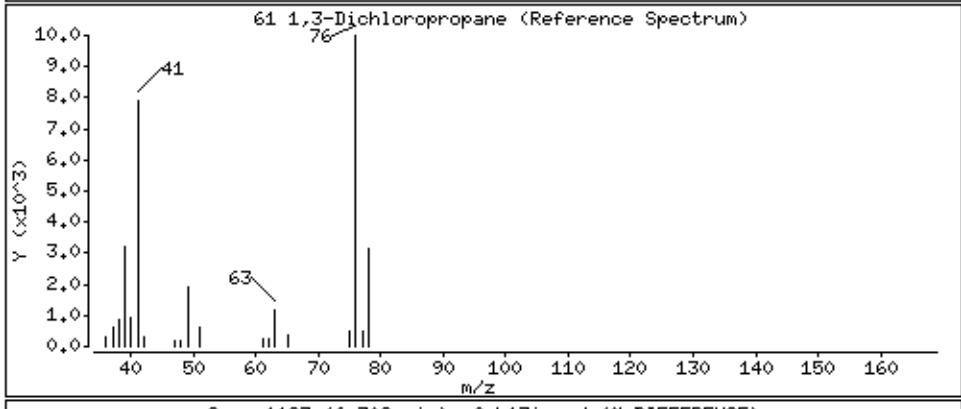
61 1,3-Dichloropropane

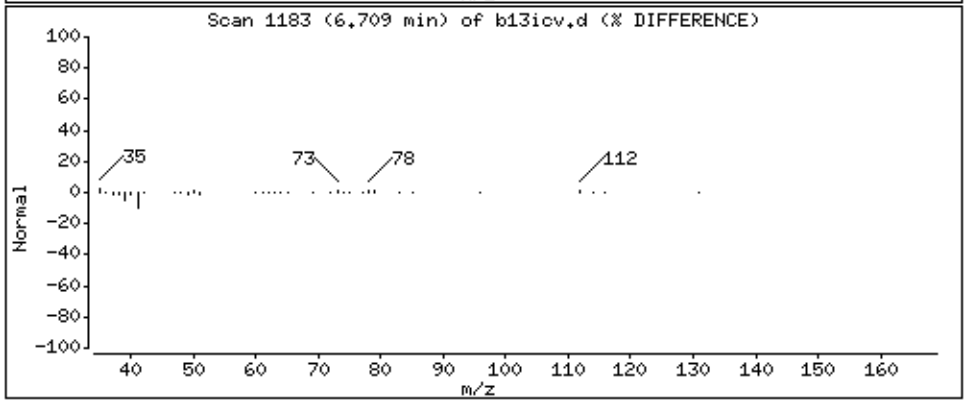
Concentration: 48.3 ppb

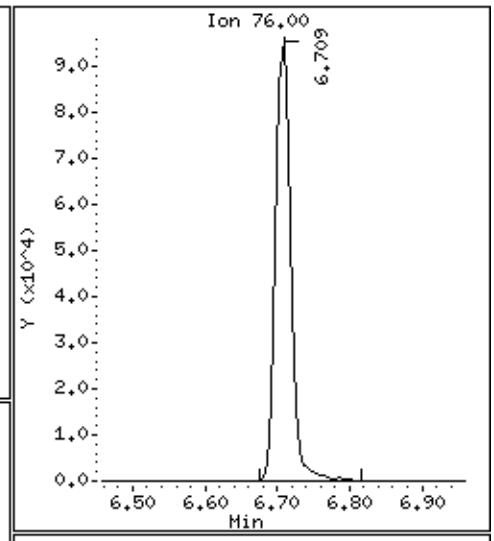
Review Code:

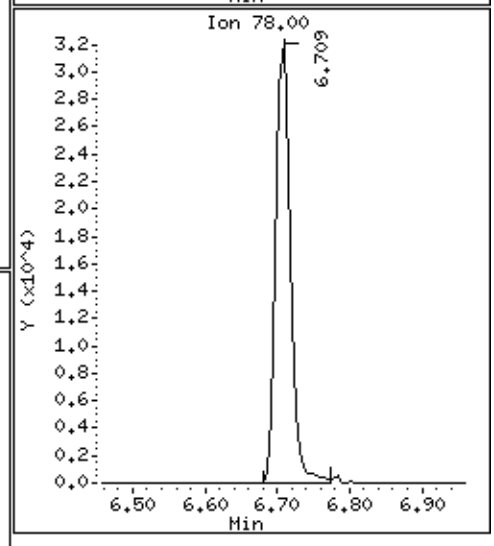












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

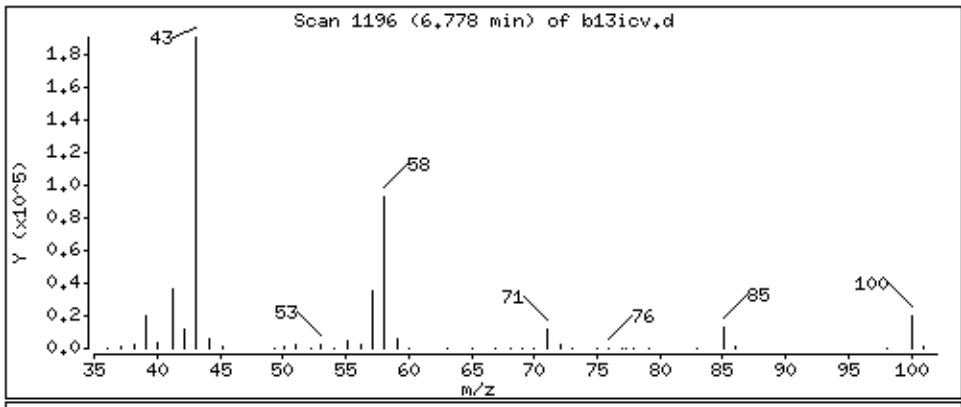
Column phase: DB-624

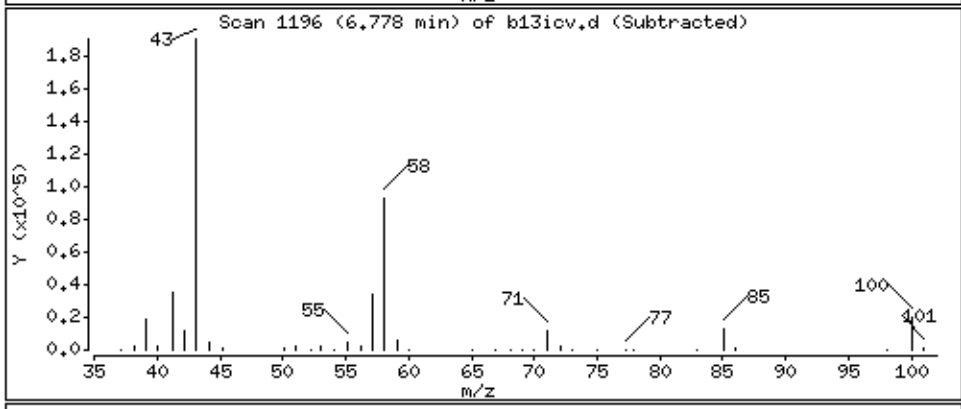
Column diameter: 0.18

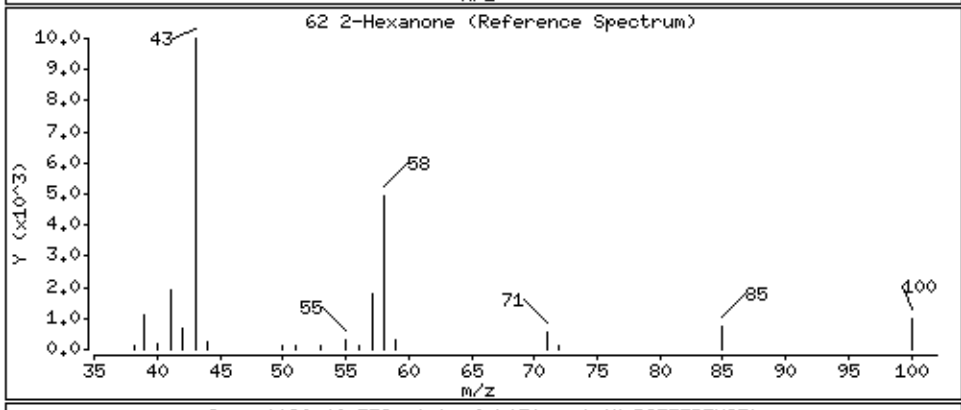
62 2-Hexanone

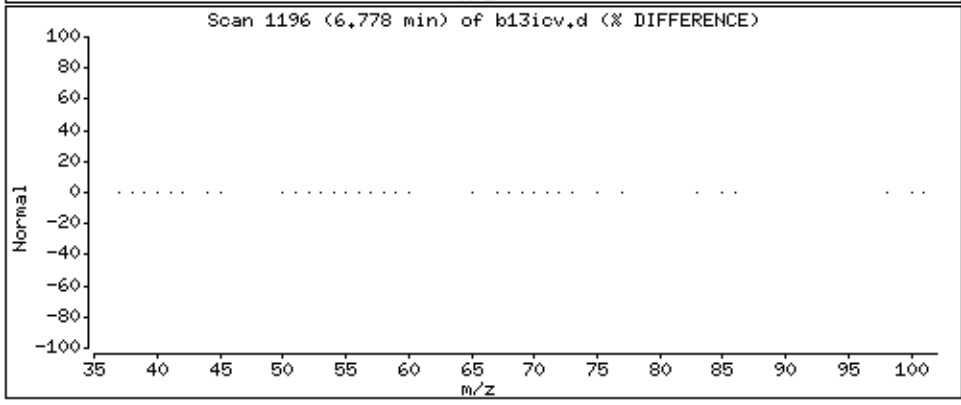
Concentration: 260 ppb

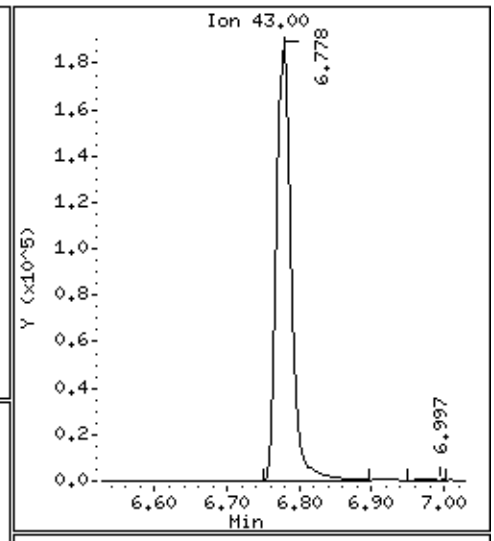
Review Code:

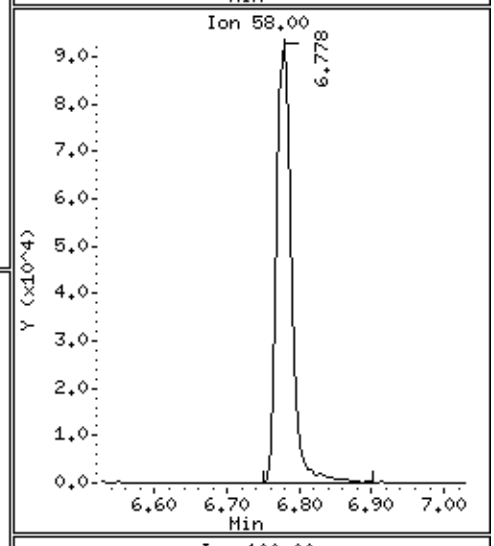


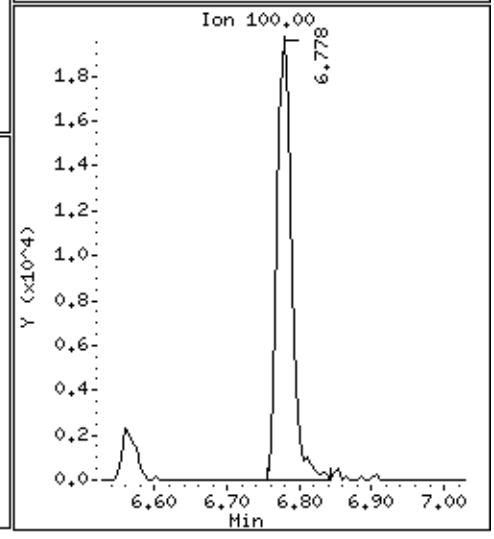












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

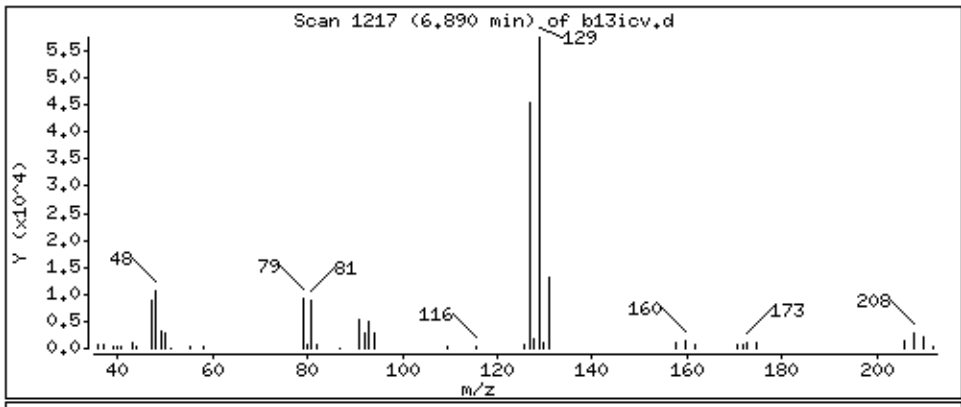
Column phase: DB-624

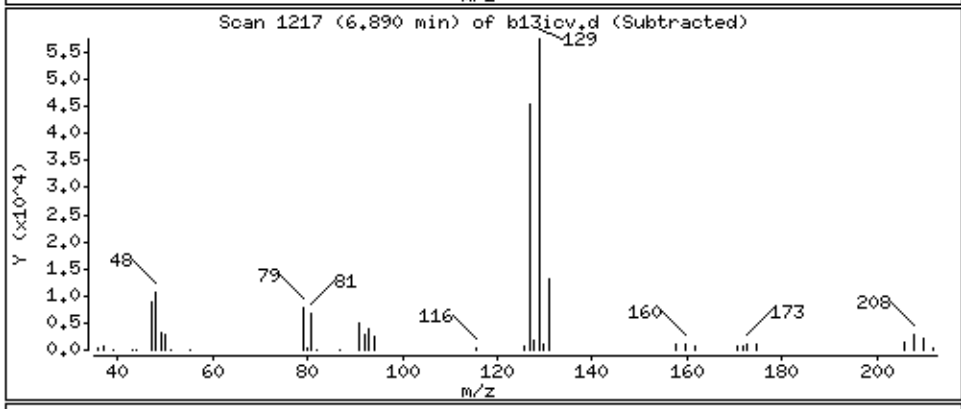
Column diameter: 0.18

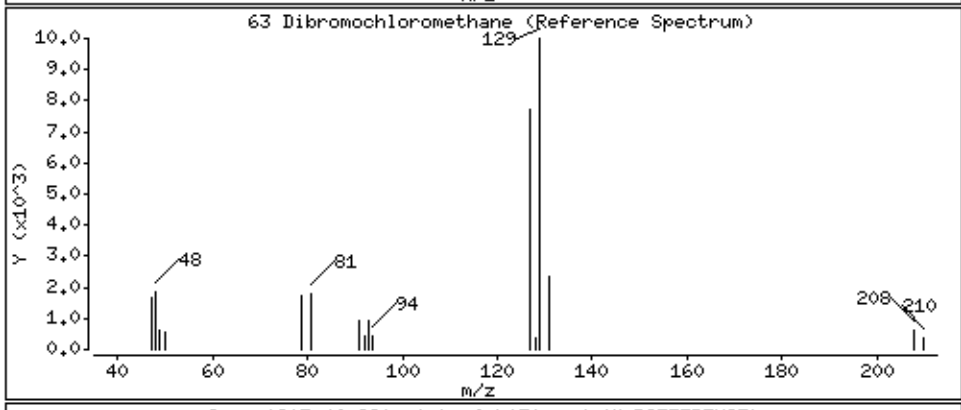
63 Dibromochloromethane

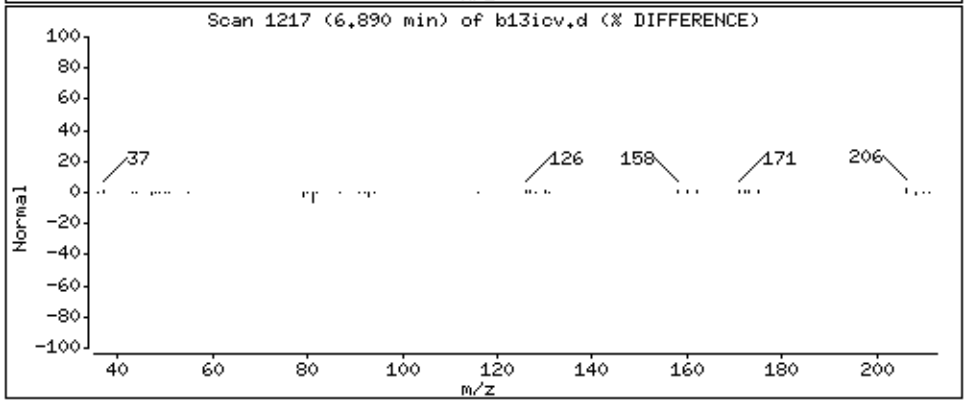
Concentration: 54.2 ppb

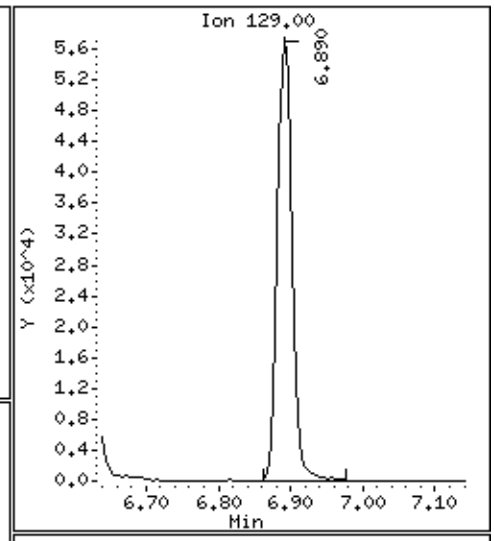
Review Code:

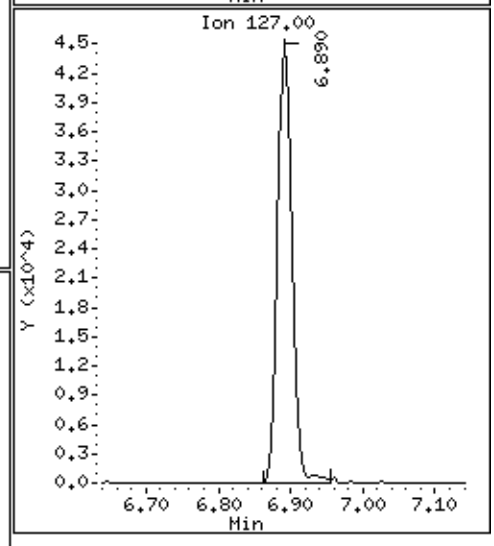












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 66

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

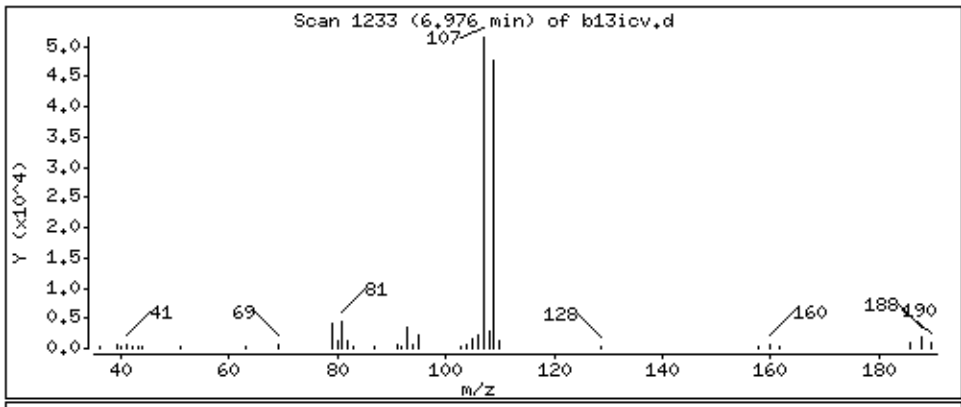
Column phase: DB-624

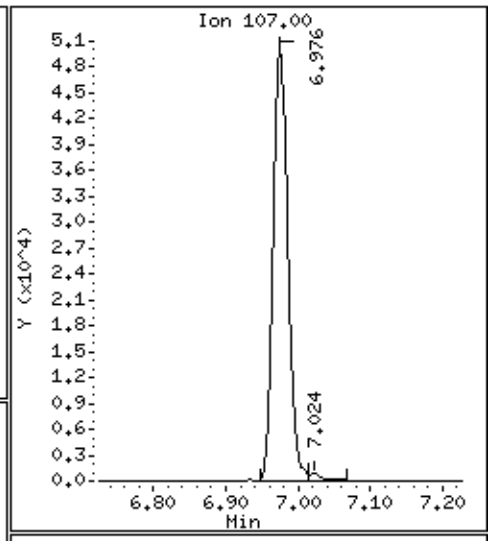
Column diameter: 0.18

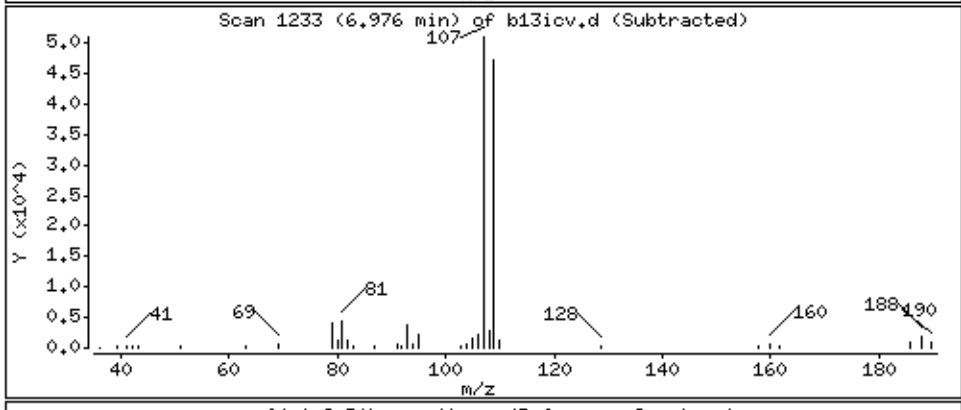
64 1,2-Dibromoethane

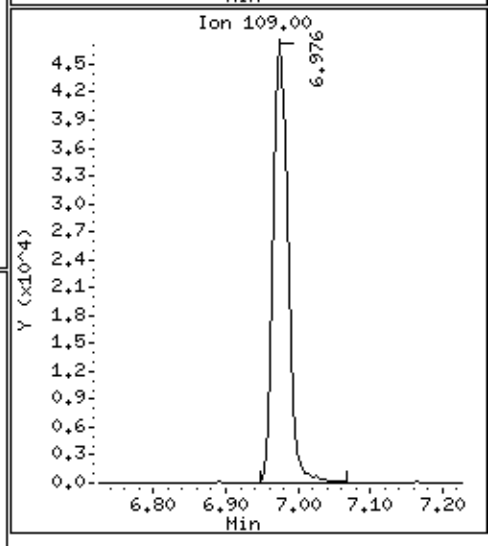
Concentration: 49.7 ppb

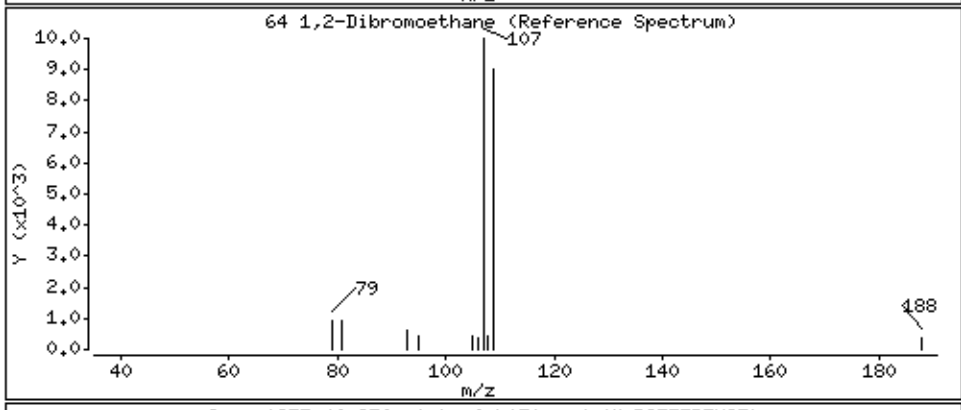
Review Code:

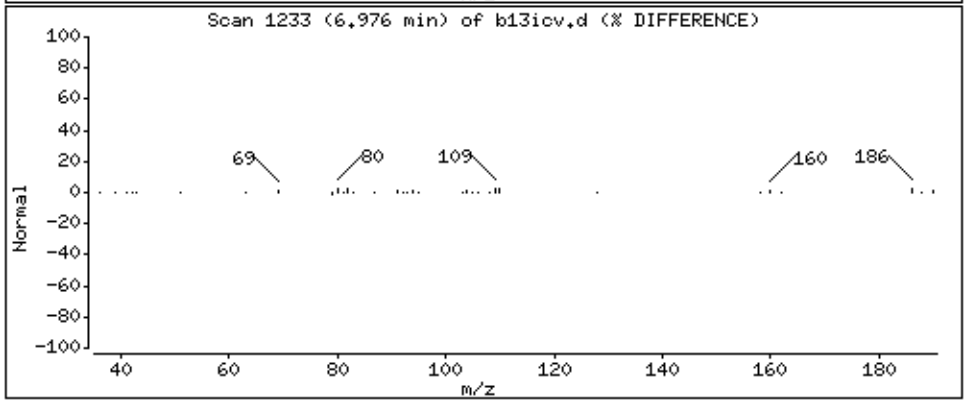












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

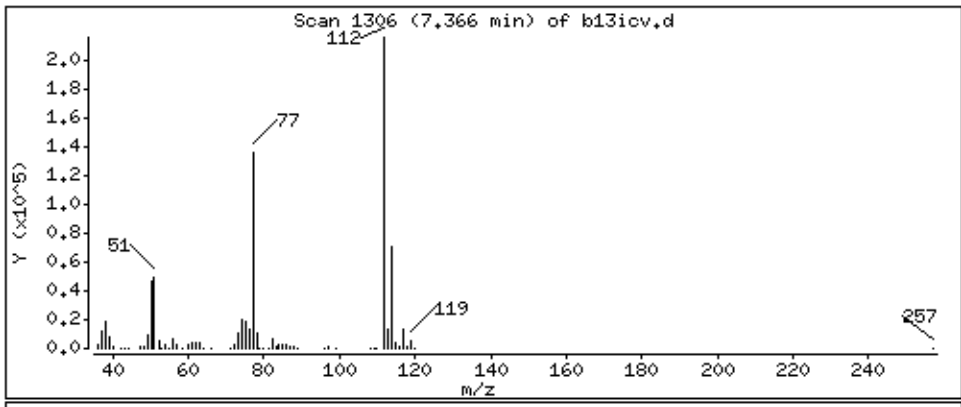
Column phase: DB-624

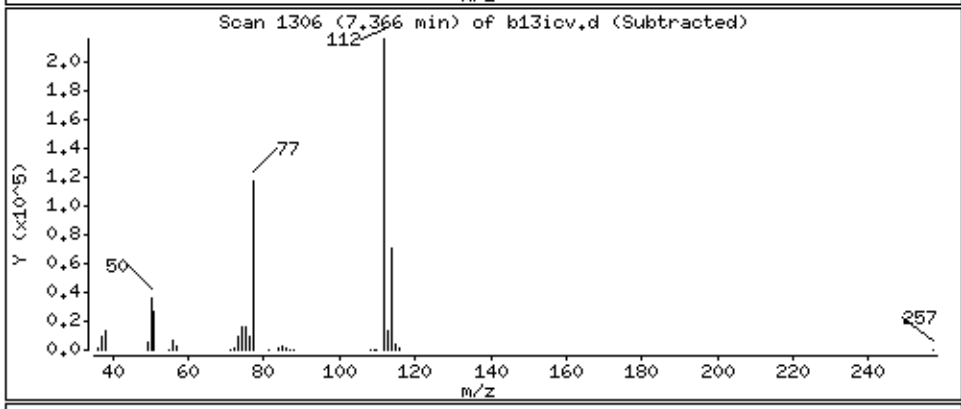
Column diameter: 0.18

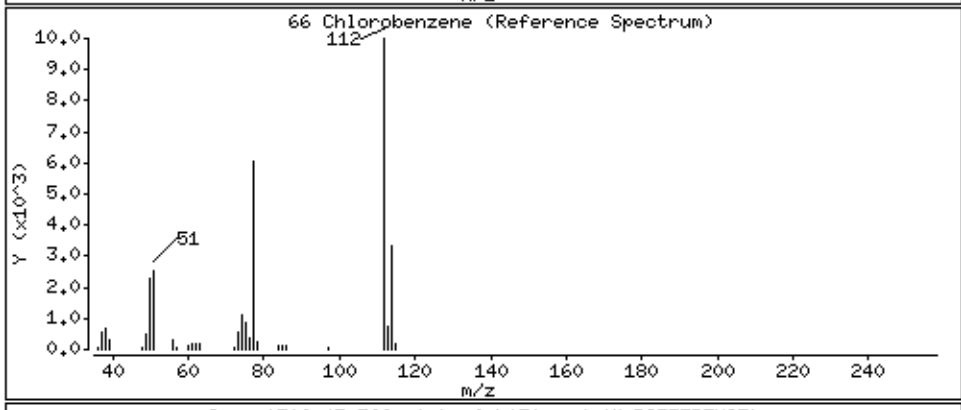
66 Chlorobenzene

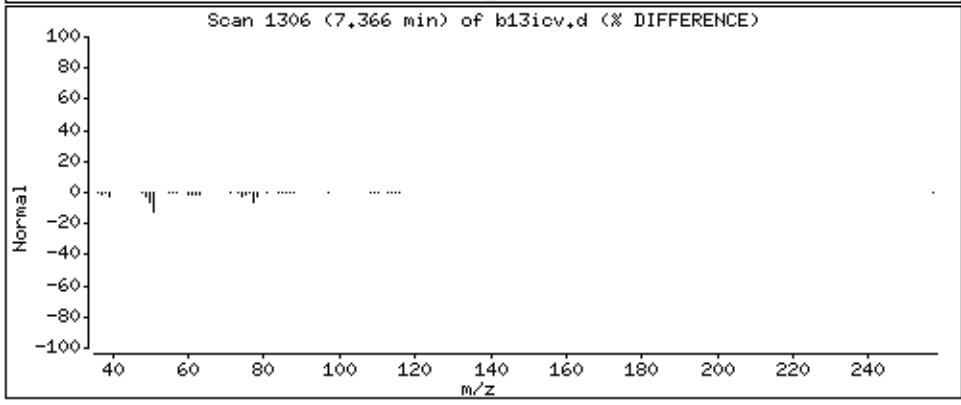
Concentration: 49.1 ppb

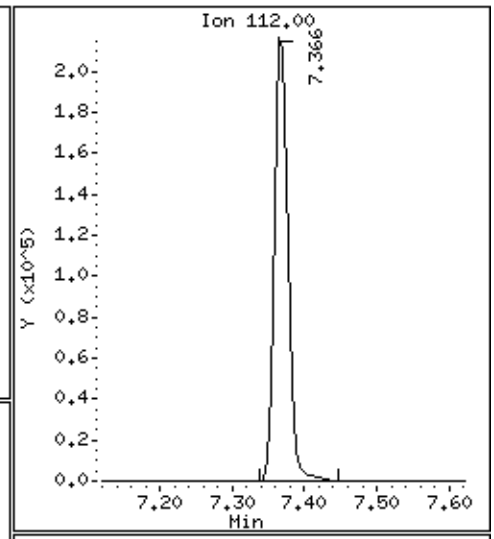
Review Code:

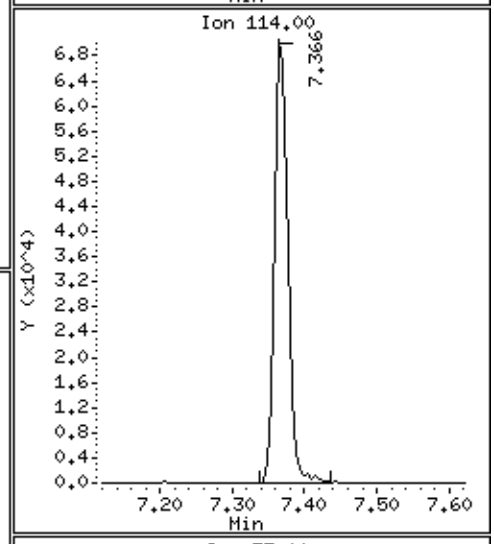


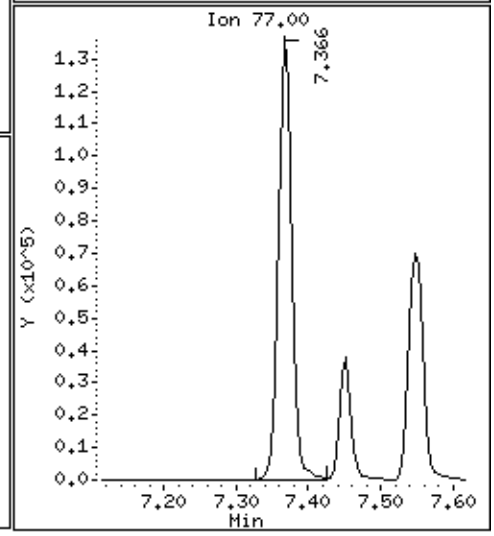












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

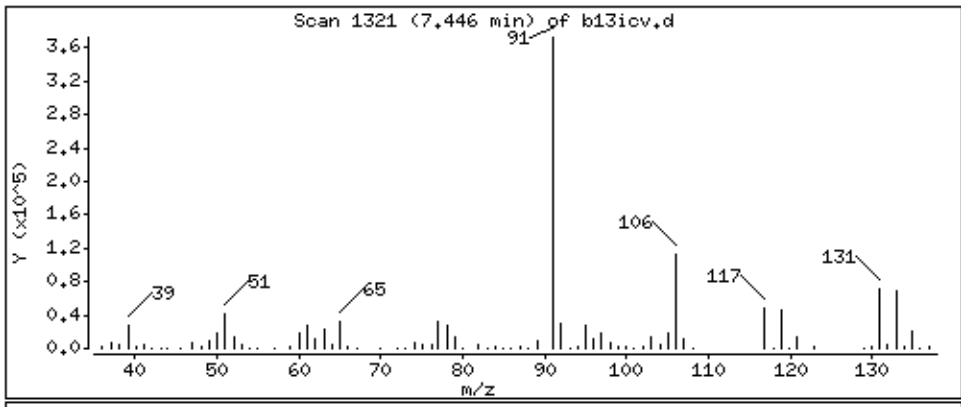
Column phase: DB-624

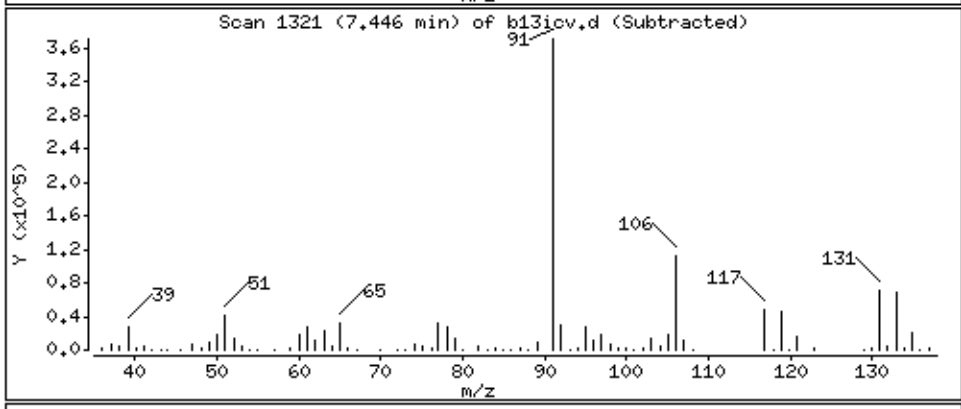
Column diameter: 0.18

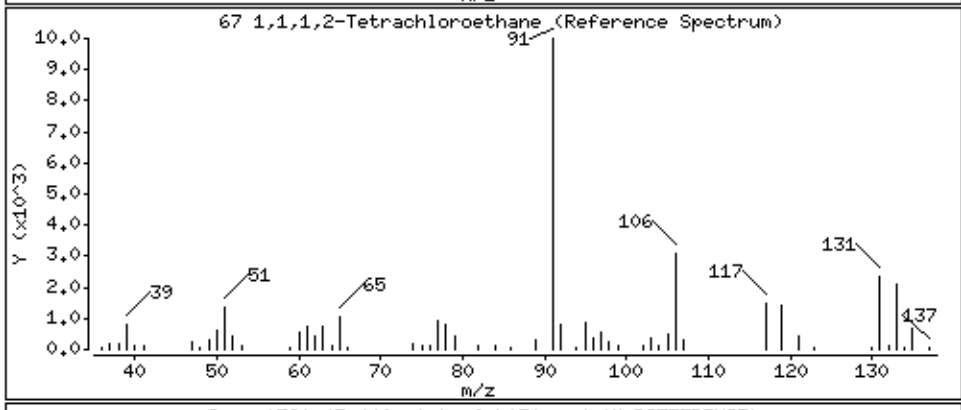
67 1,1,1,2-Tetrachloroethane

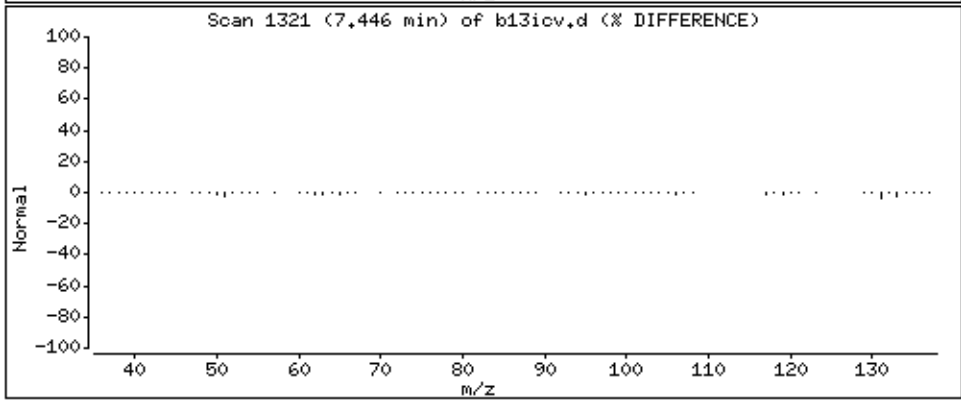
Concentration: 50.2 ppb

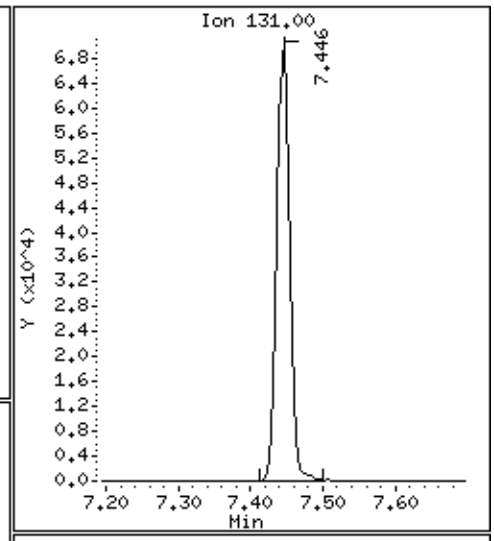
Review Code:

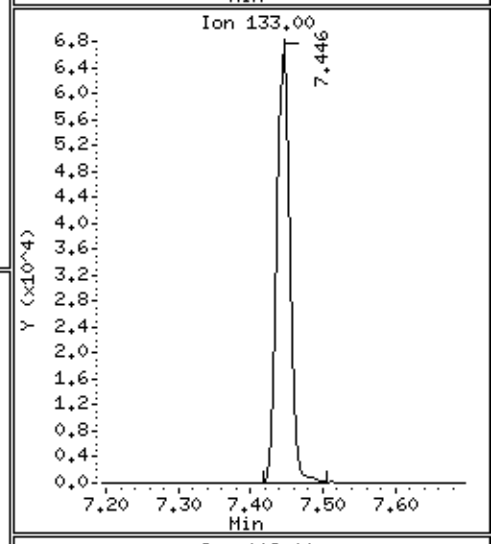


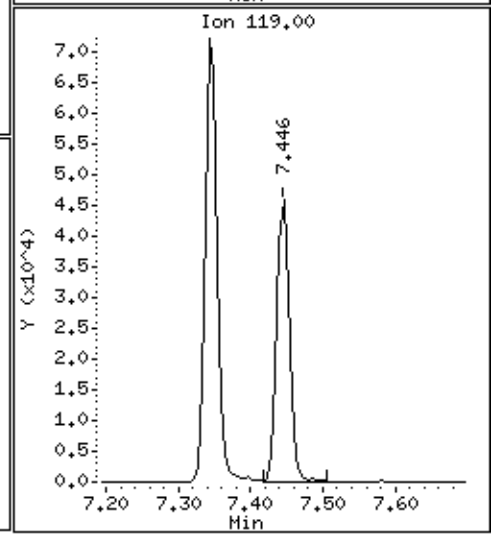












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

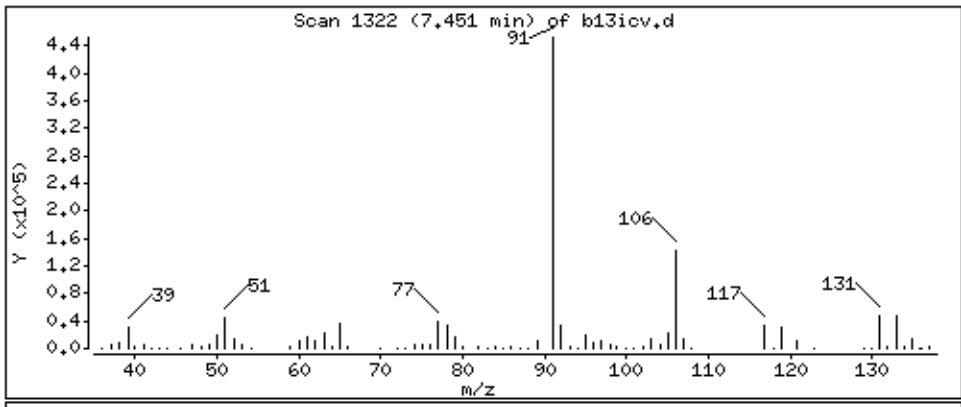
Column phase: DB-624

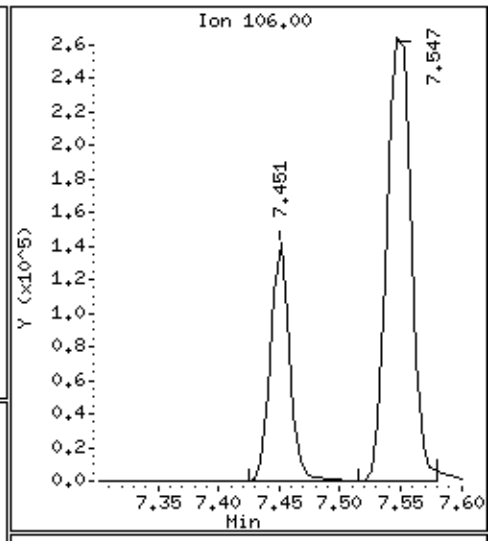
Column diameter: 0.18

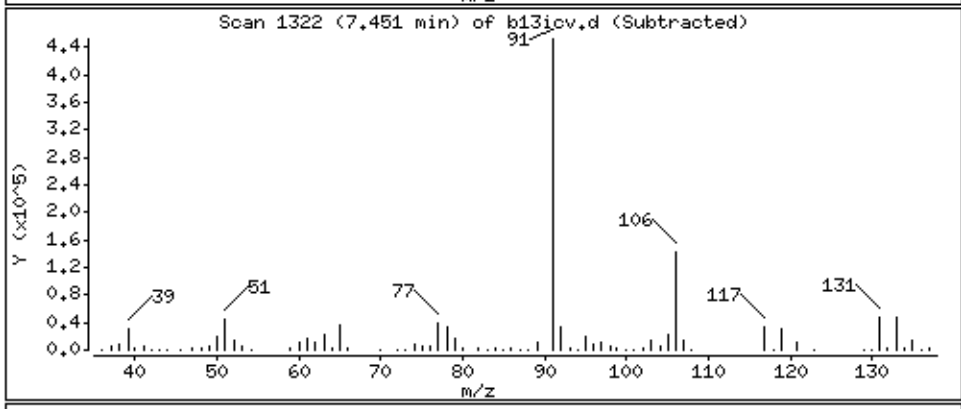
68 Ethylbenzene

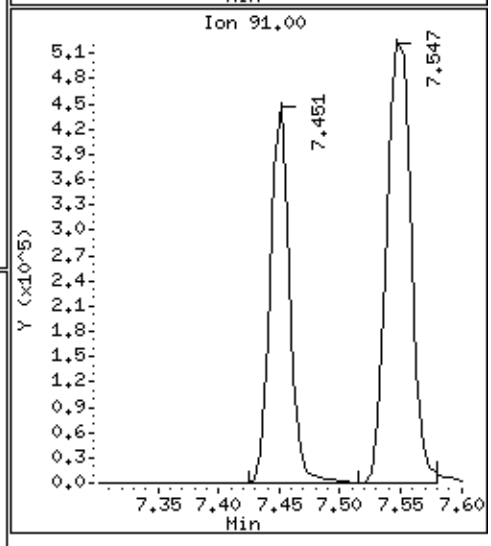
Concentration: 50.0 ppb

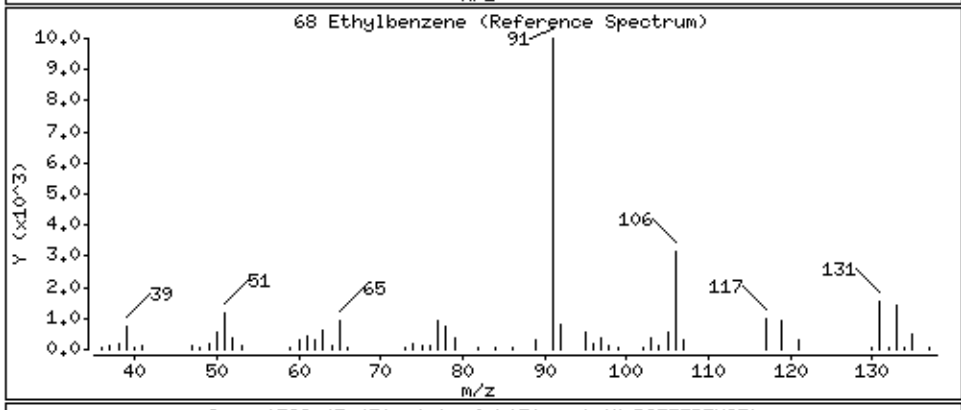
Review Code:

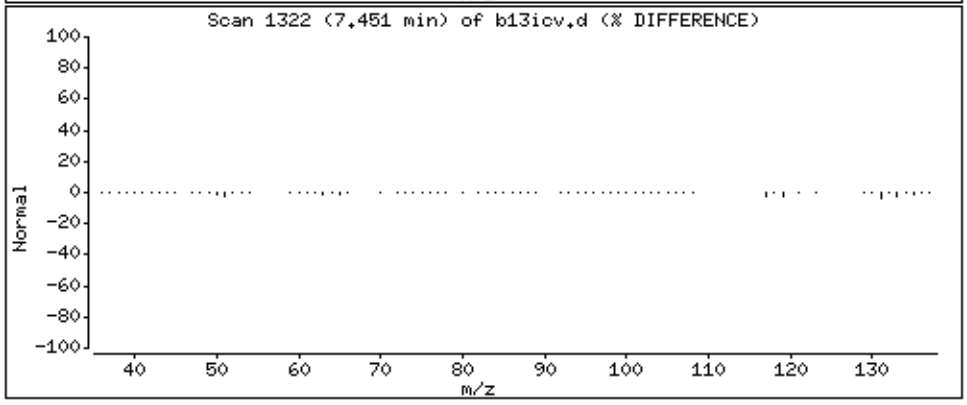












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

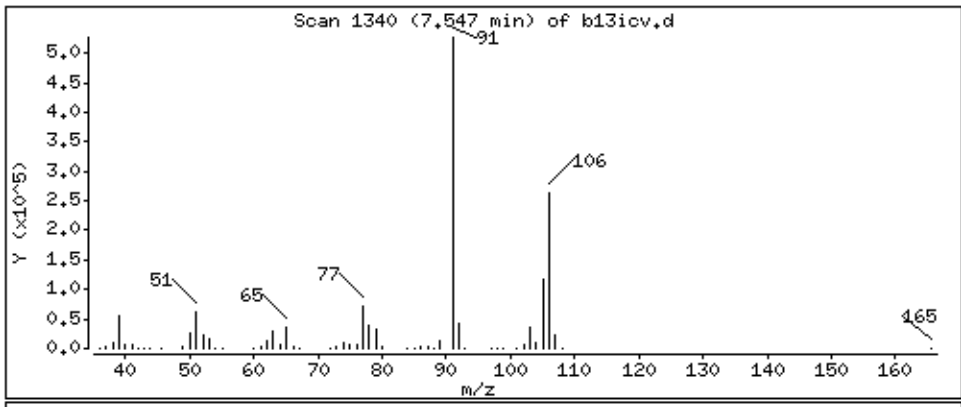
Column phase: DB-624

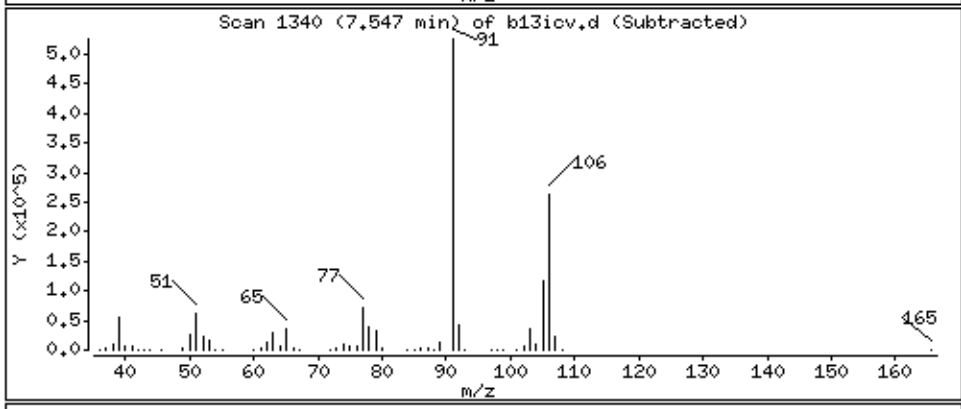
Column diameter: 0.18

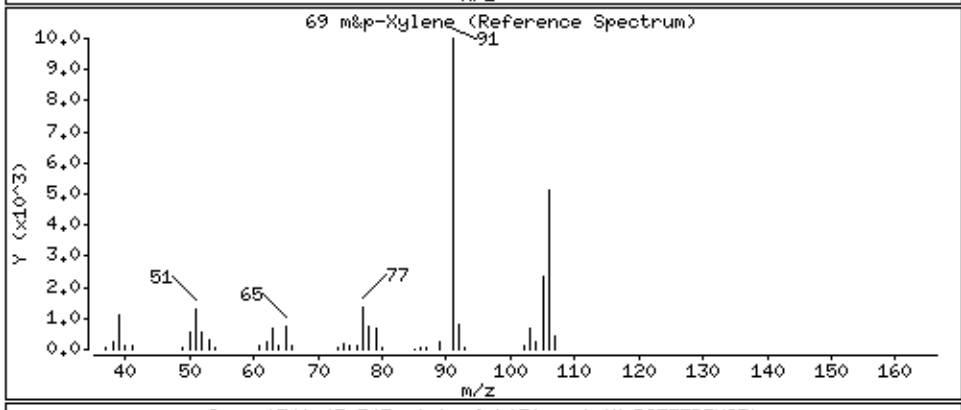
69 m&p-Xylene

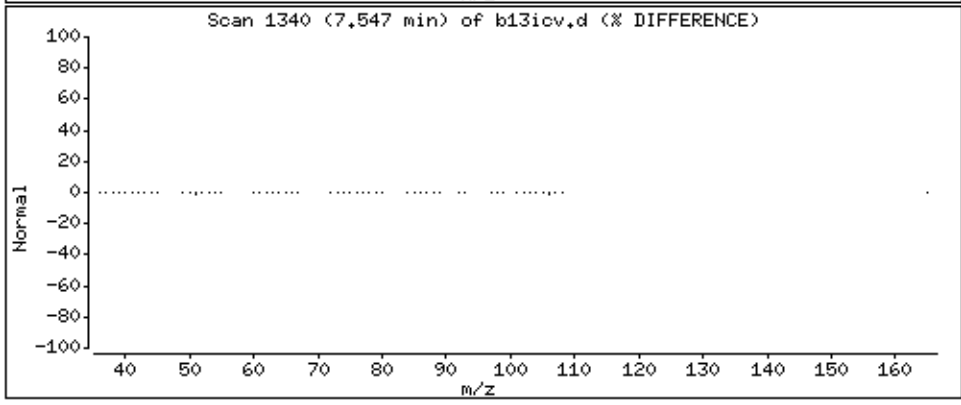
Concentration: 102 ppb

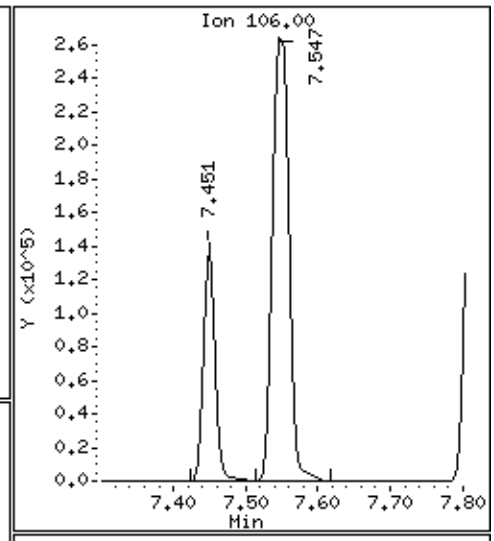
Review Code:

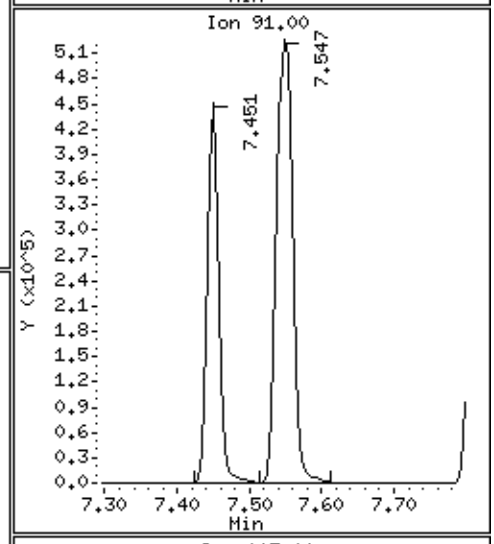


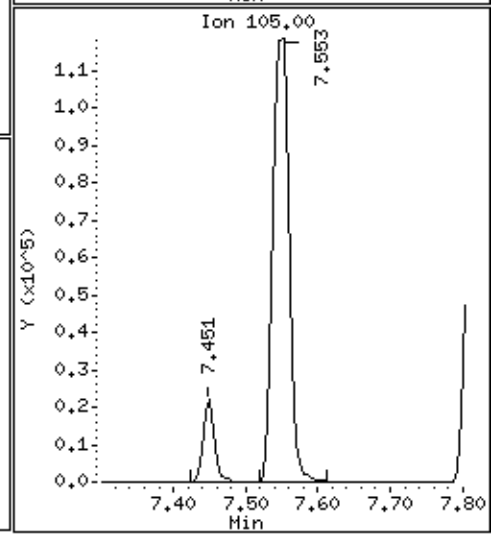












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

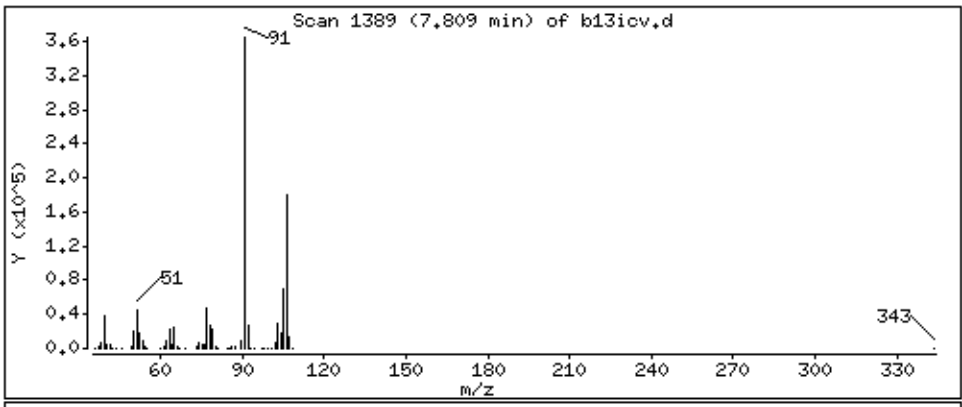
Column phase: DB-624

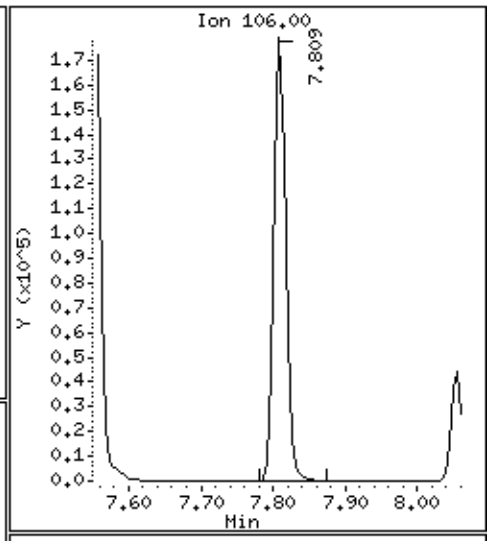
Column diameter: 0.18

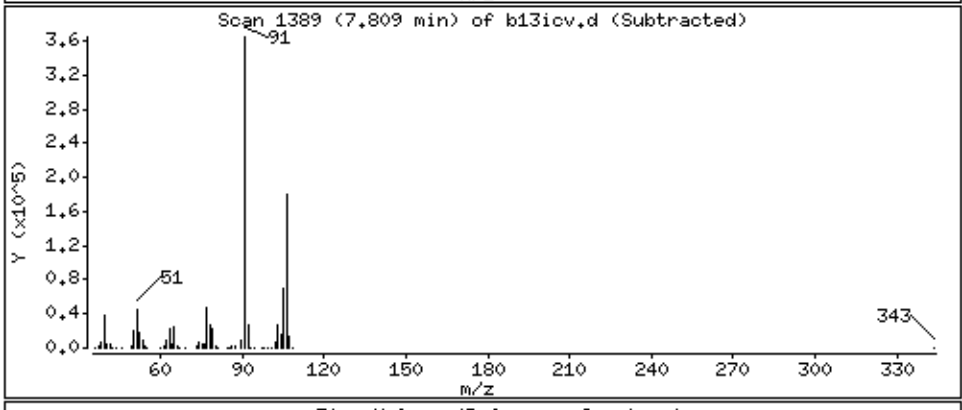
70 o-Xylene

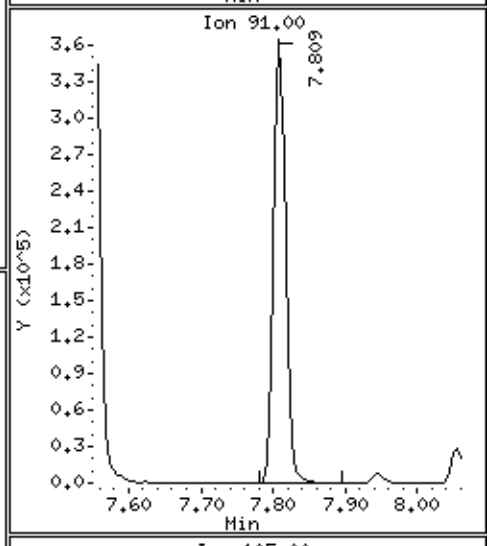
Concentration: 54.4 ppb

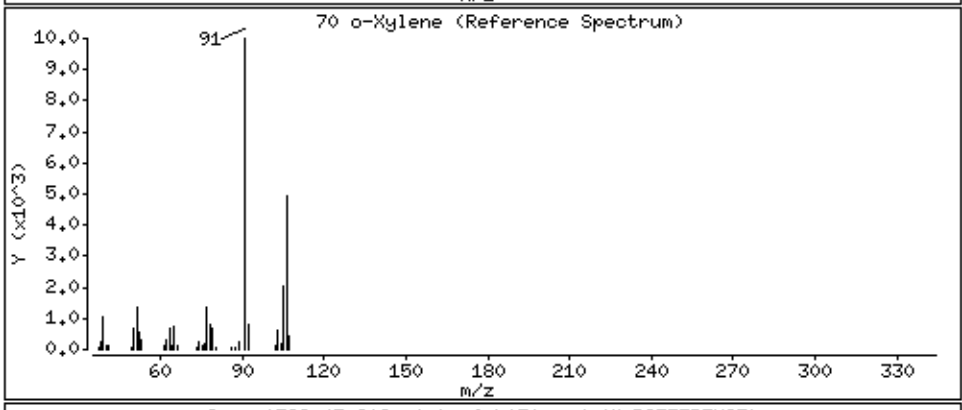
Review Code:

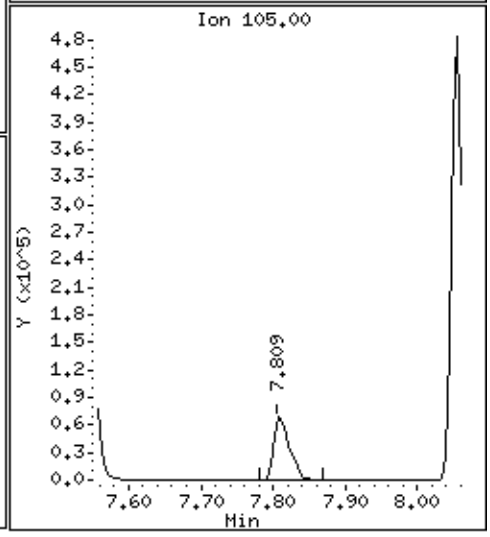


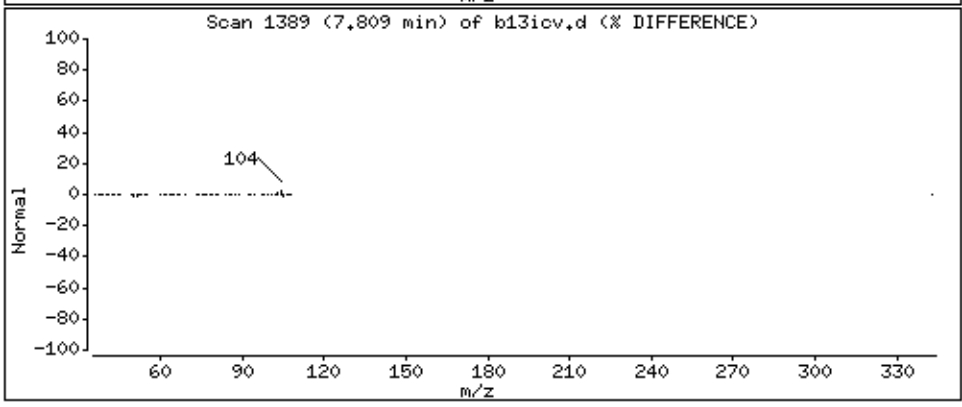












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

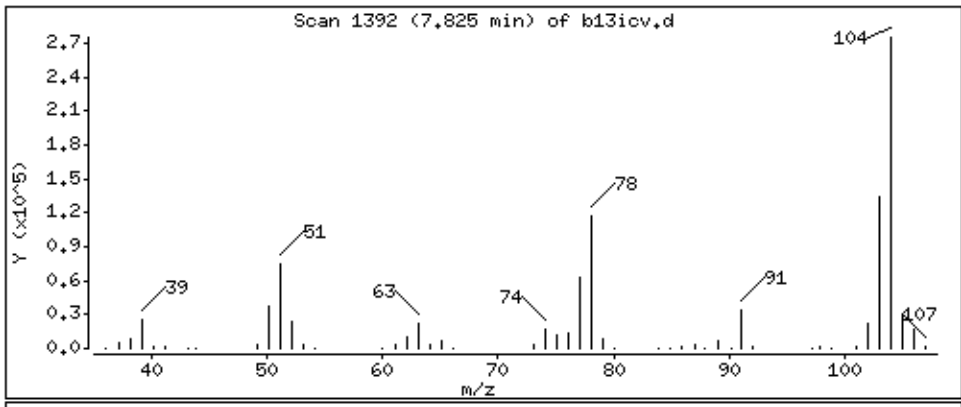
Column phase: DB-624

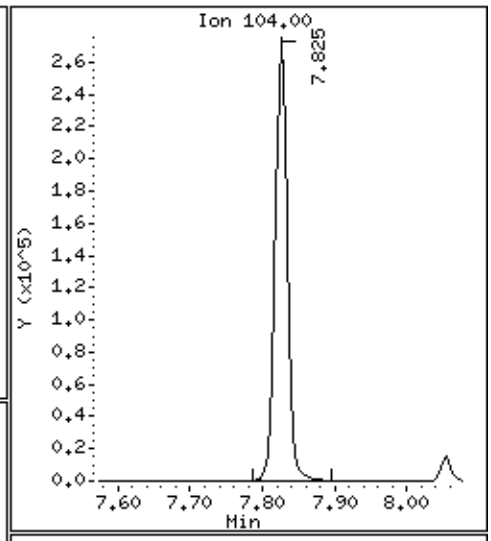
Column diameter: 0.18

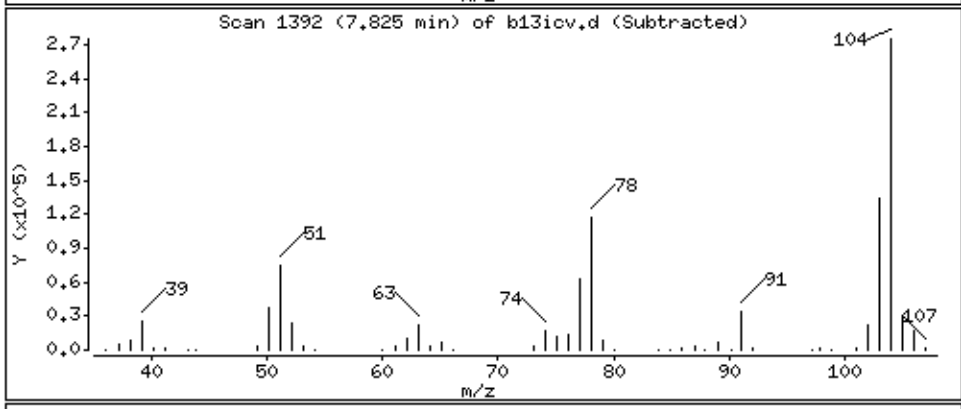
71 Styrene

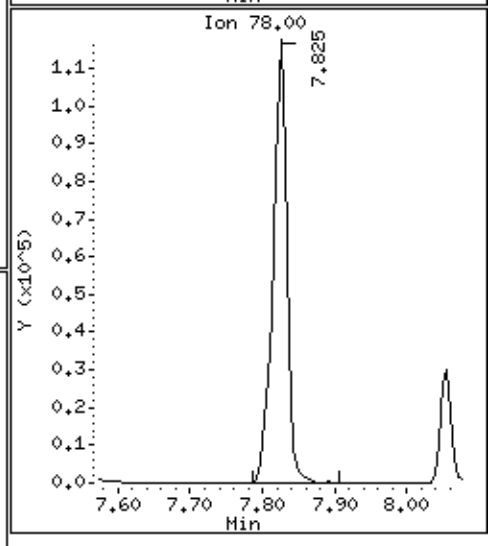
Concentration: 50.7 ppb

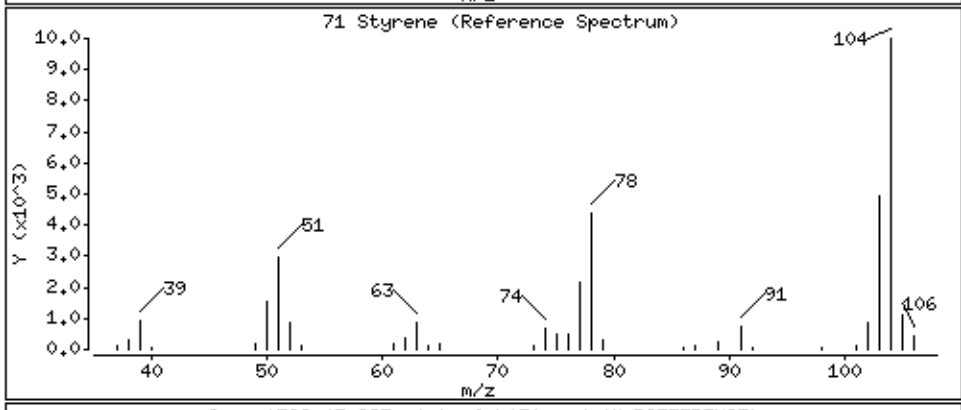
Review Code:

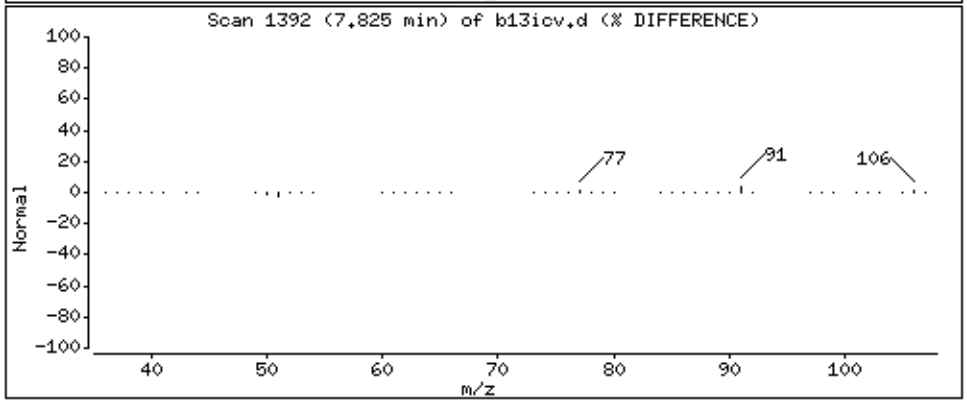












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 73

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

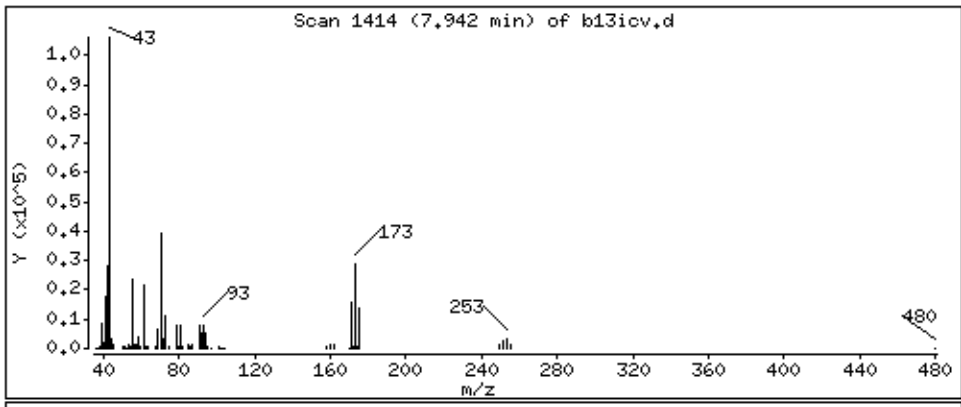
Column phase: DB-624

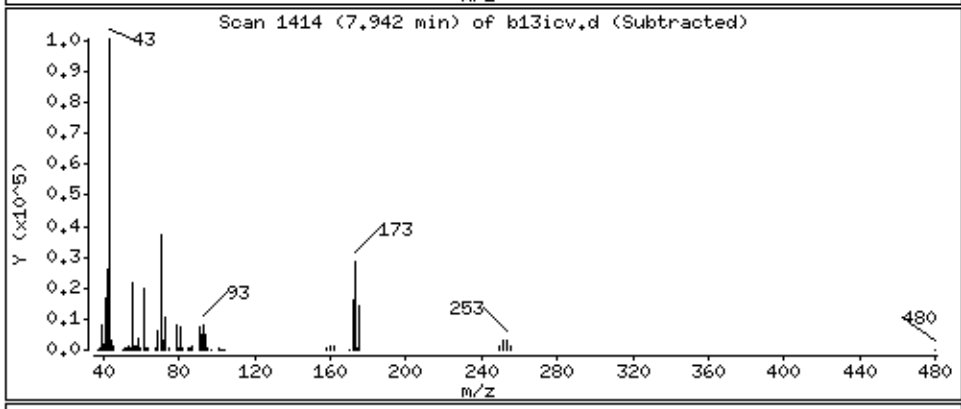
Column diameter: 0.18

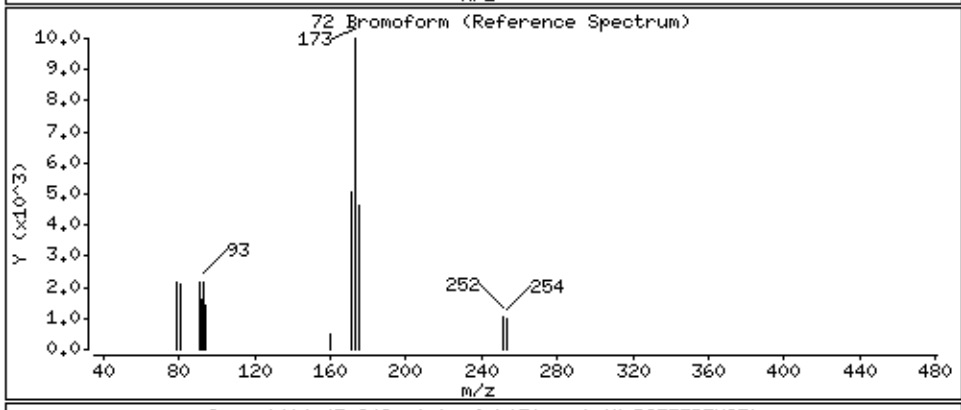
72 Bromoform

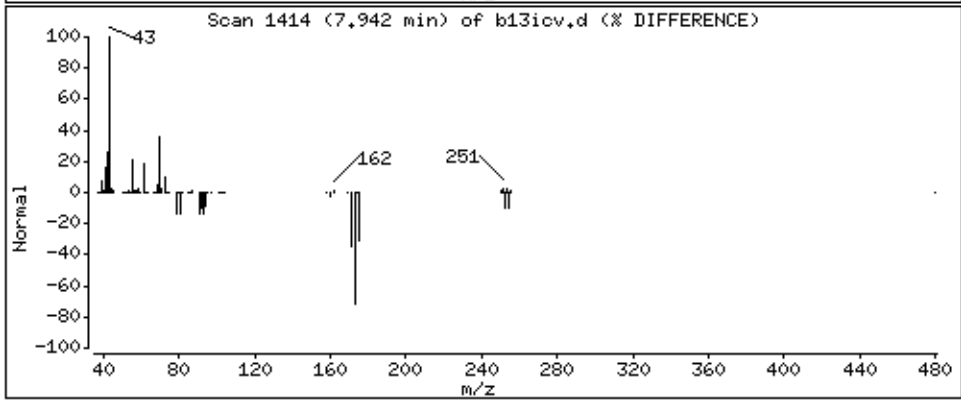
Concentration: 48.7 ppb

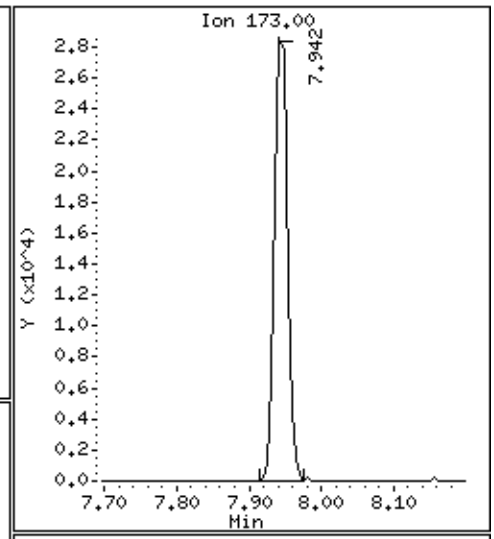
Review Code:

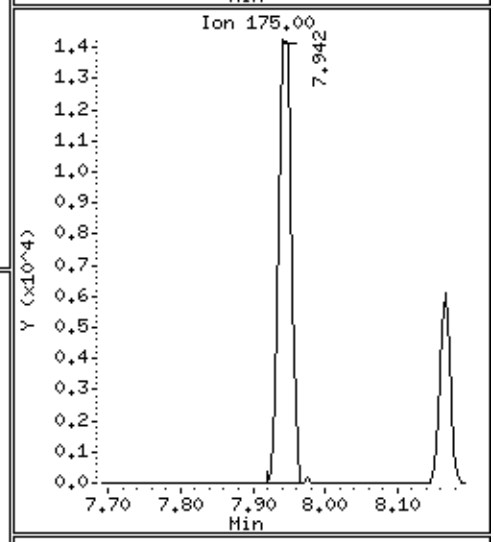


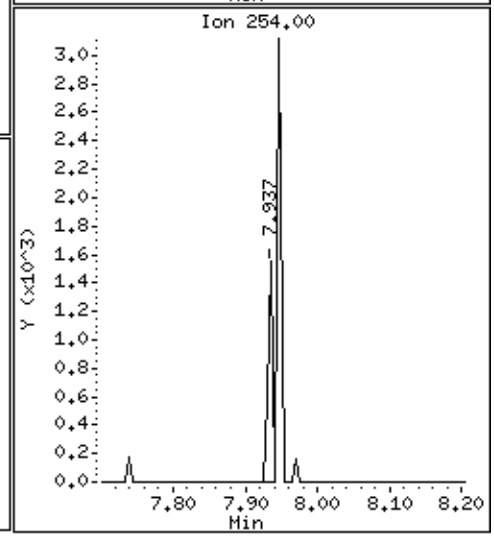












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

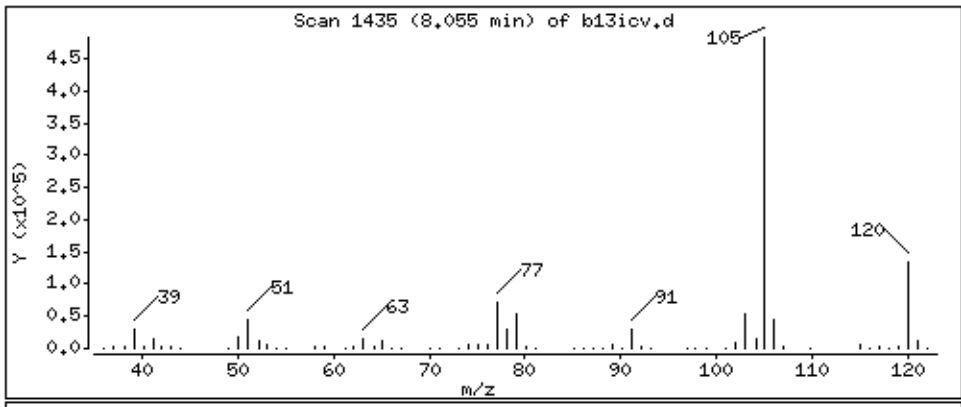
Column phase: DB-624

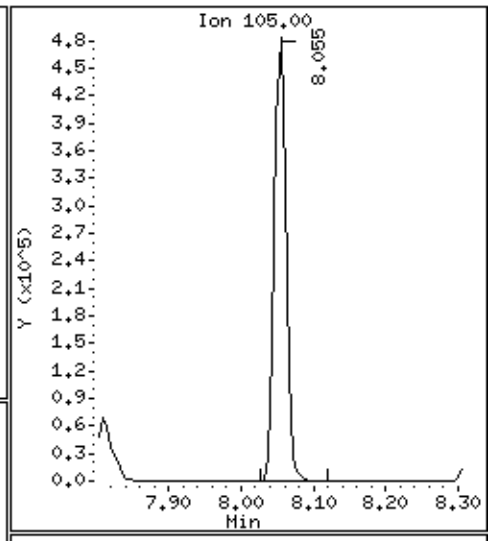
Column diameter: 0.18

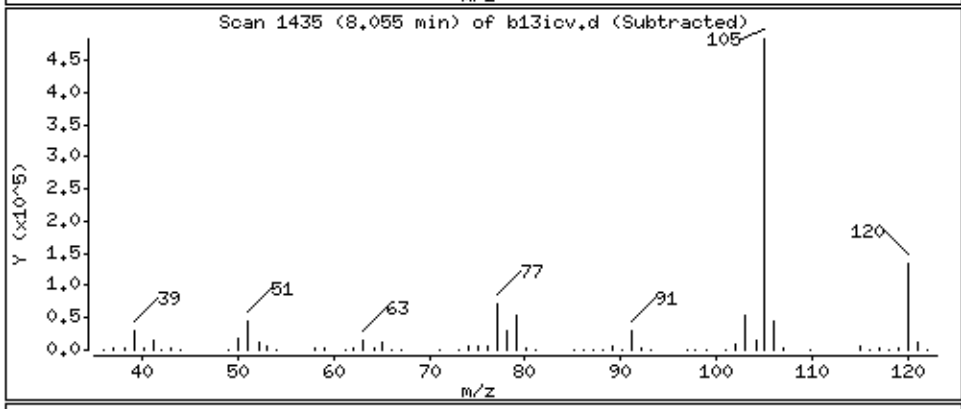
73 Isopropylbenzene

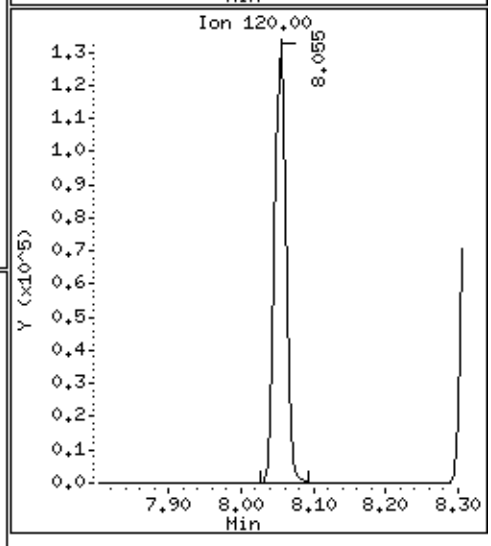
Concentration: 54.0 ppb

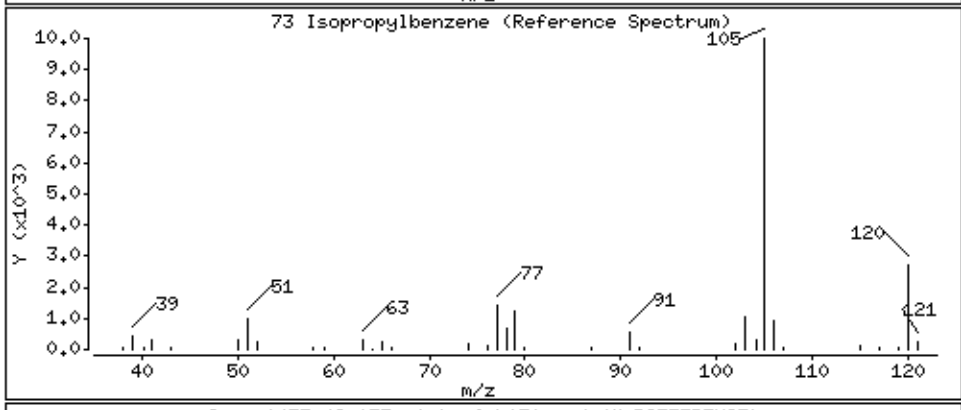
Review Code:

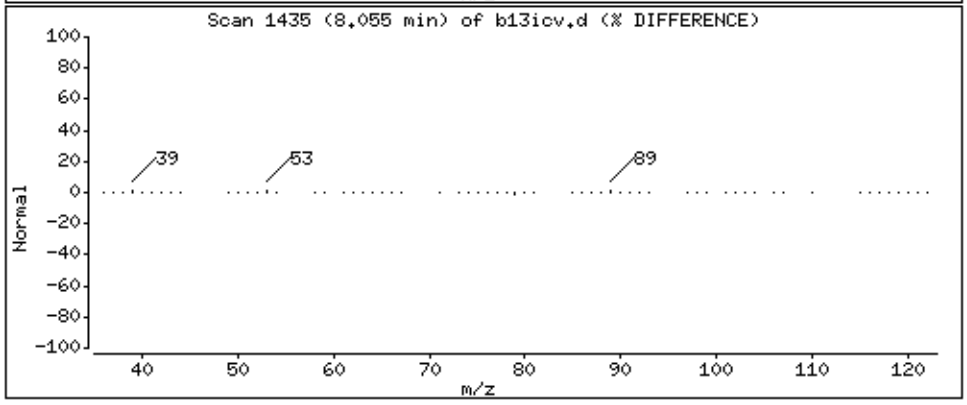












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

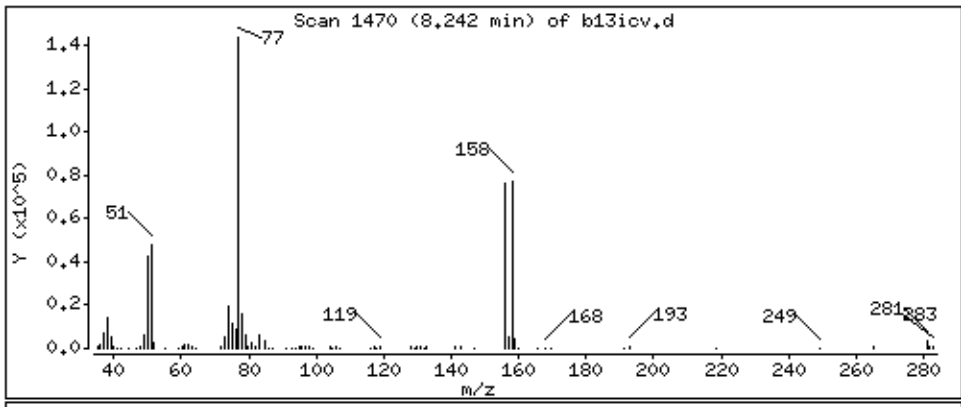
Column phase: DB-624

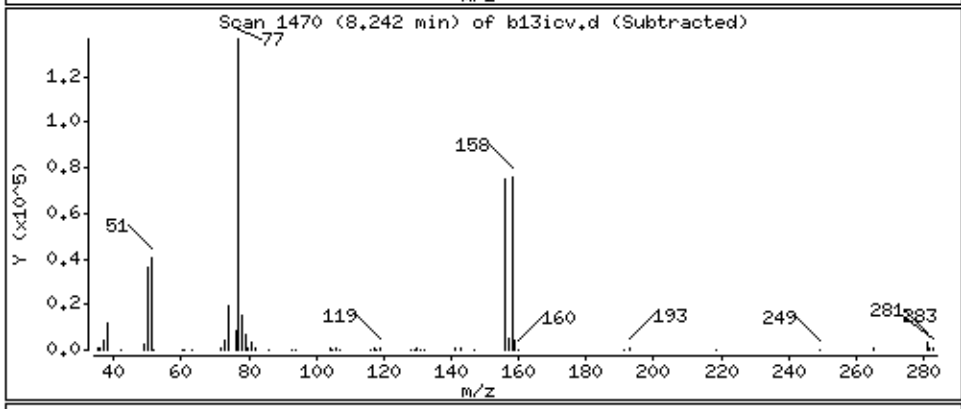
Column diameter: 0.18

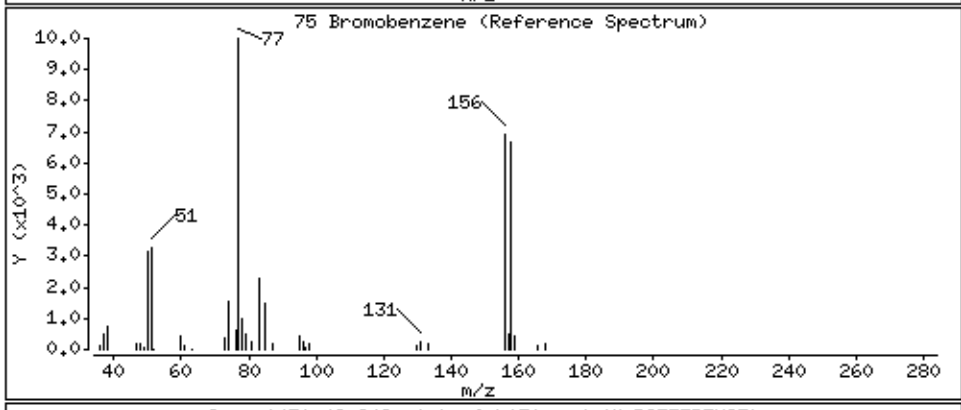
75 Bromobenzene

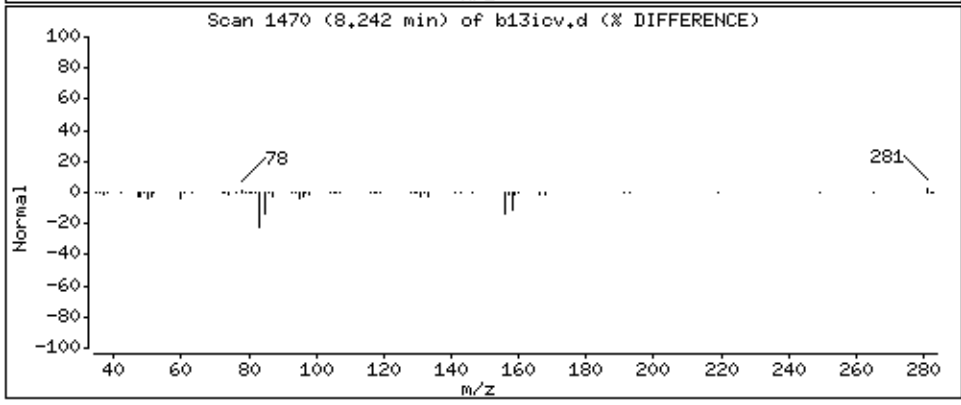
Concentration: 46.0 ppb

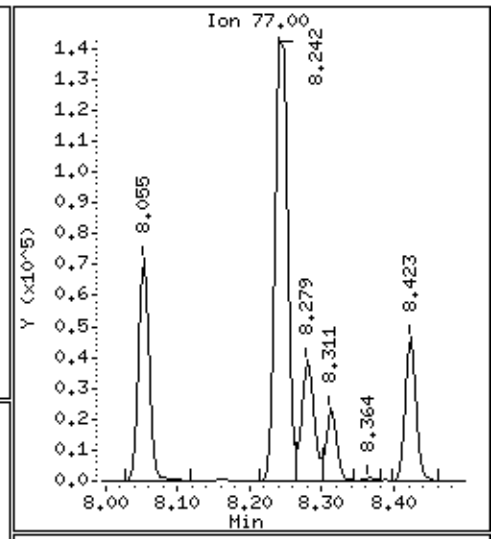
Review Code:

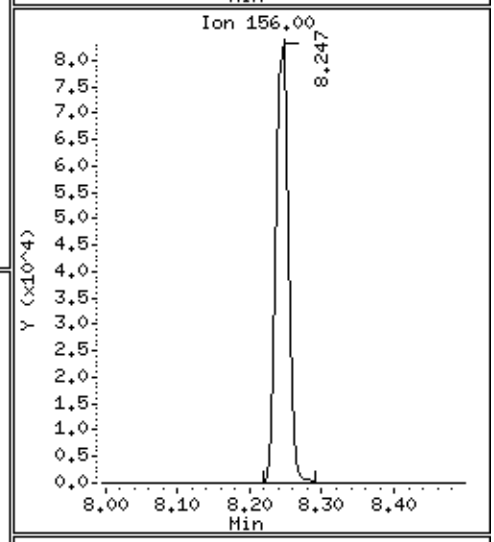


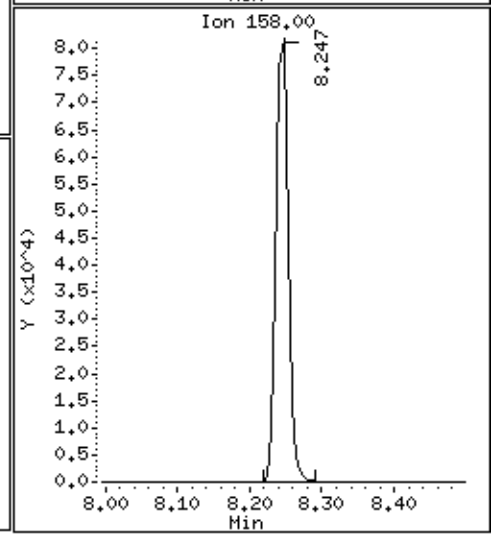












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

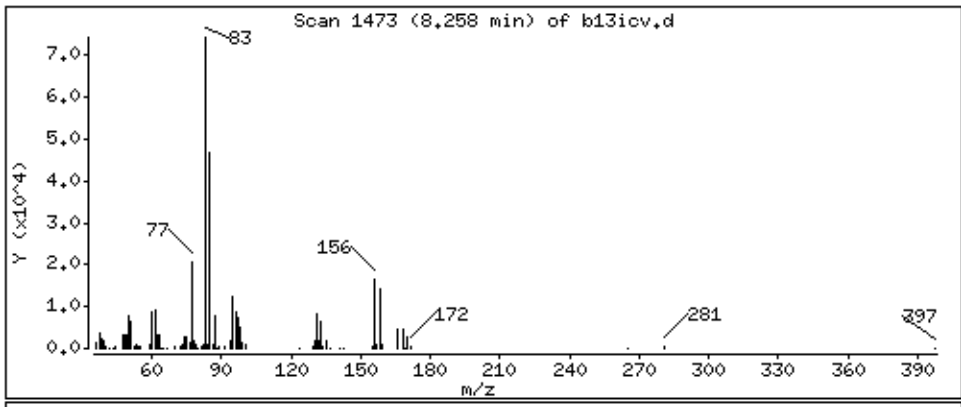
Column phase: DB-624

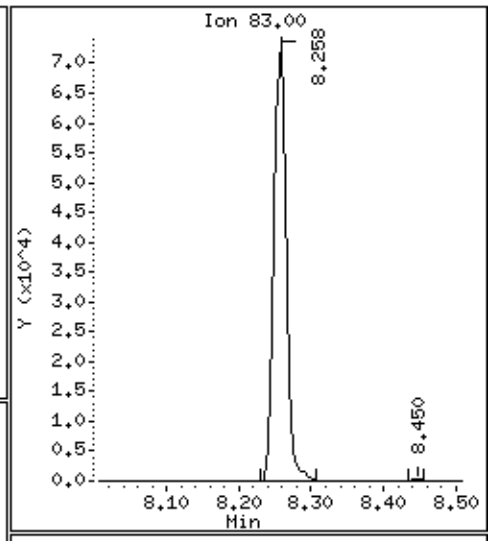
Column diameter: 0.18

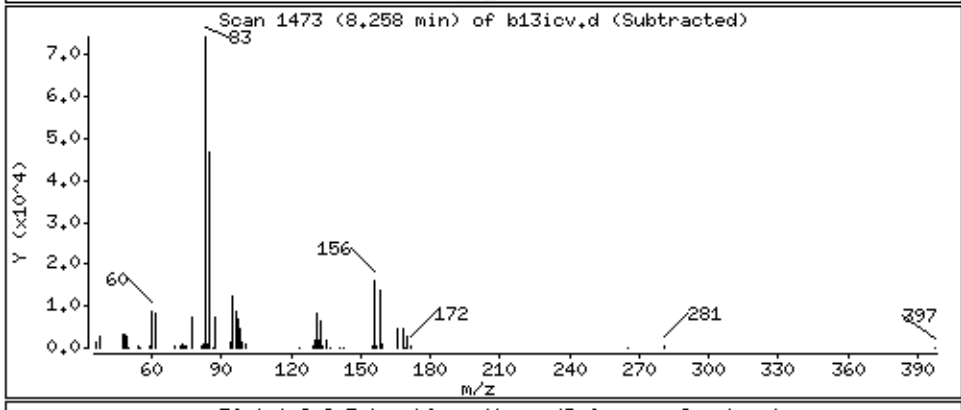
76 1,1,2,2-Tetrachloroethane

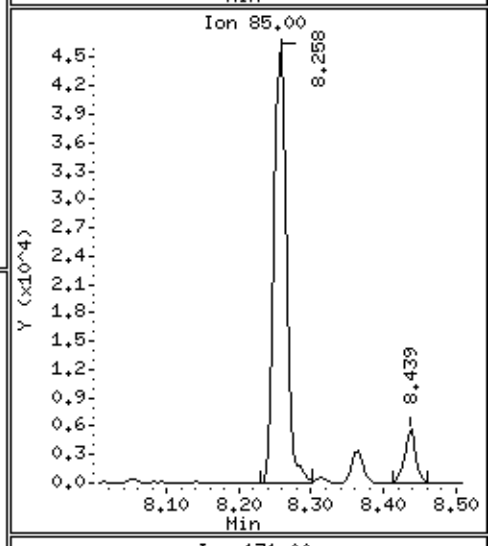
Concentration: 48.0 ppb

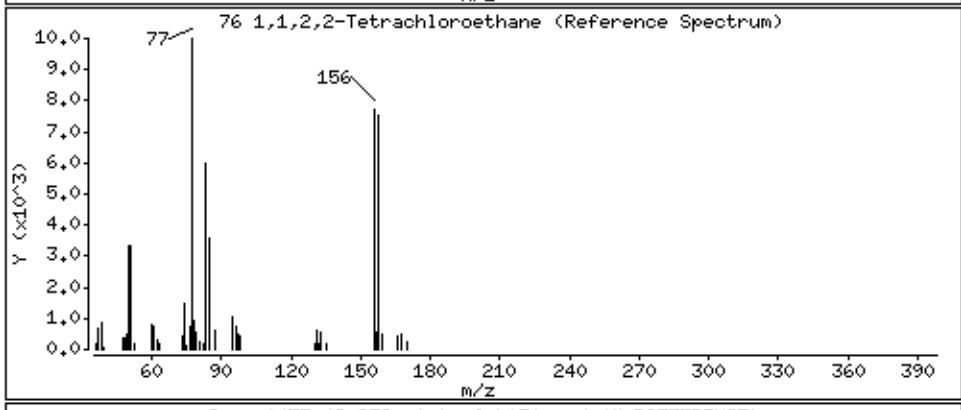
Review Code:

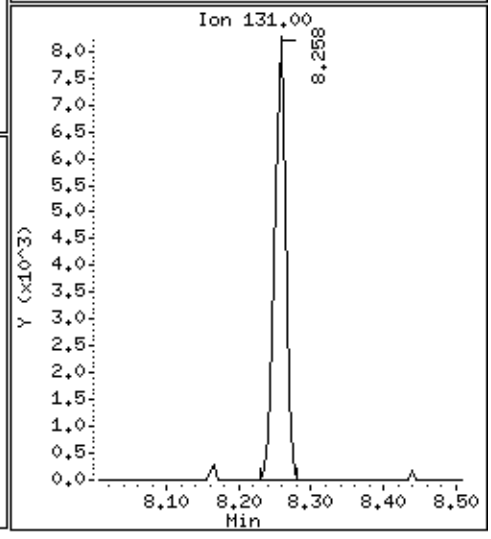


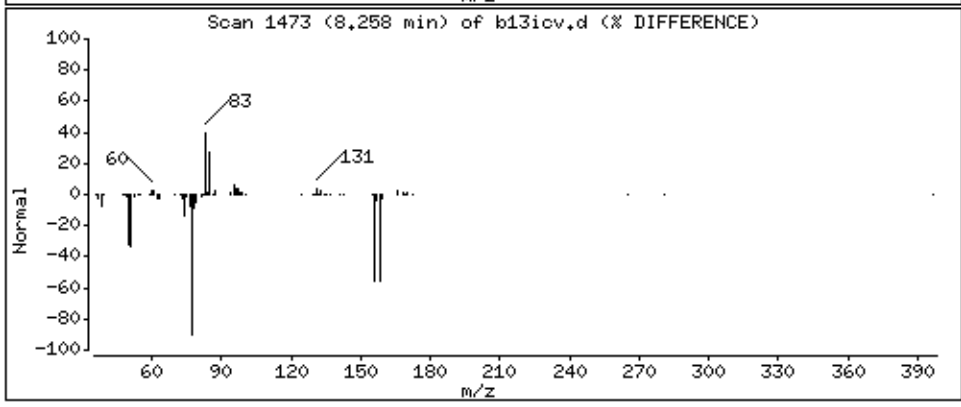












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

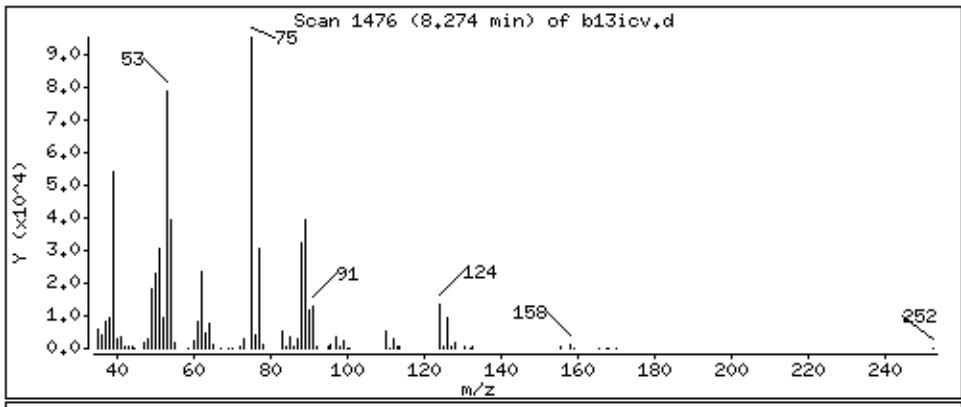
Column phase: DB-624

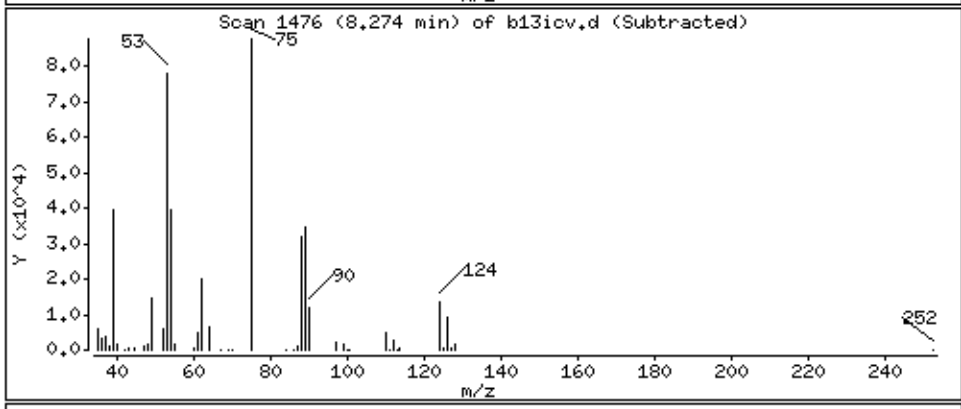
Column diameter: 0.18

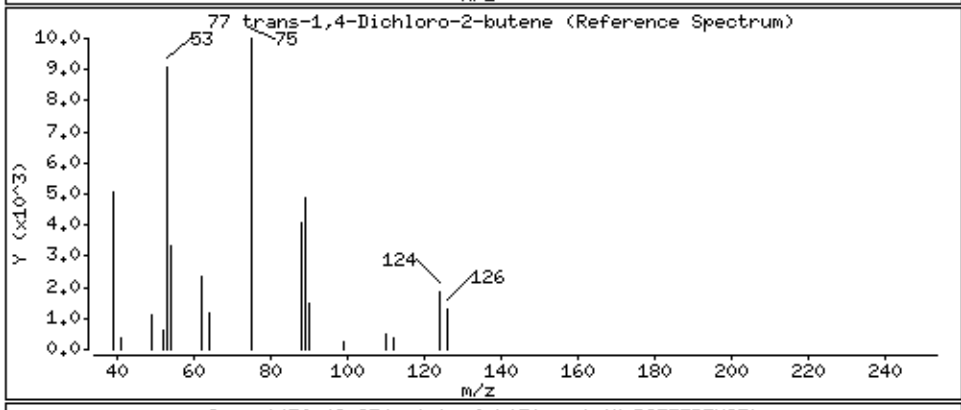
77 trans-1,4-Dichloro-2-butene

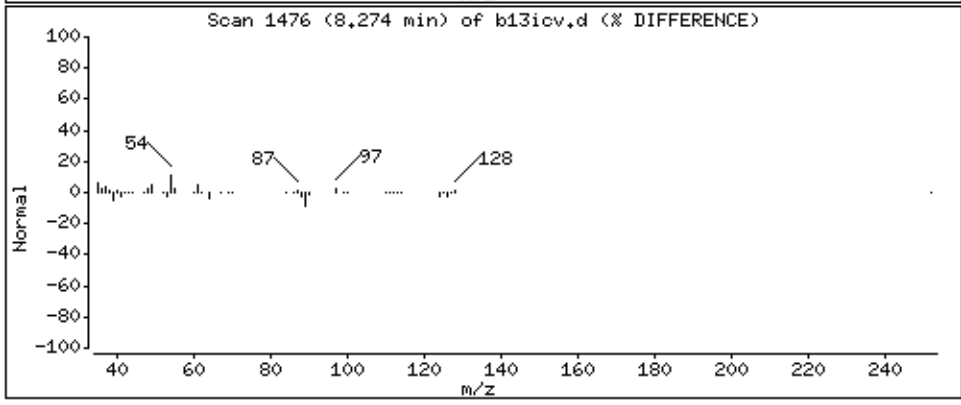
Concentration: 205 ppb

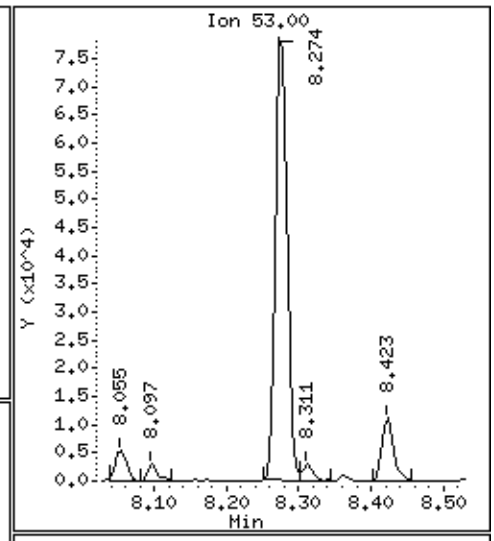
Review Code:

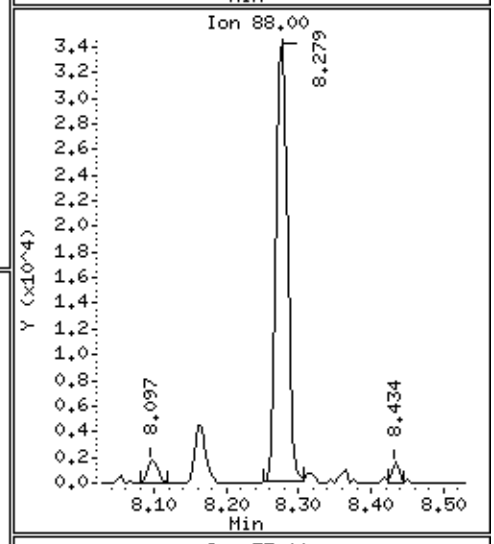


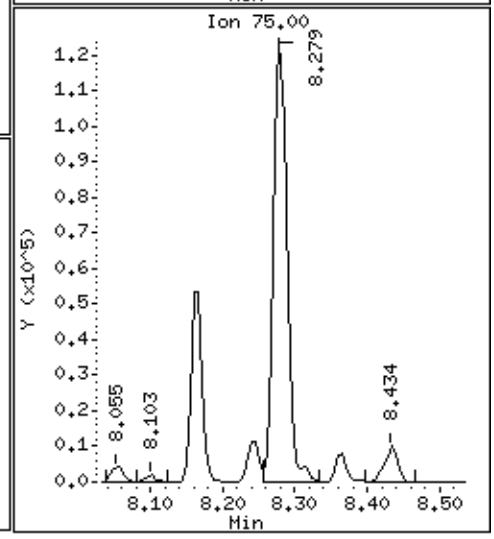












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

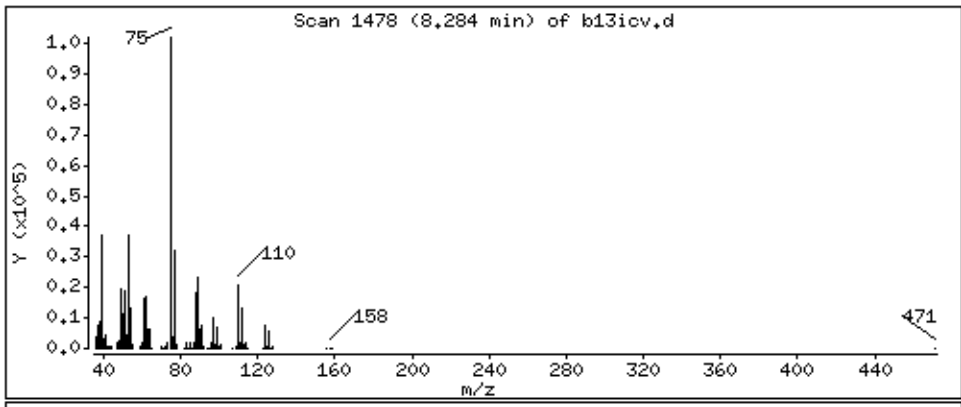
Column phase: DB-624

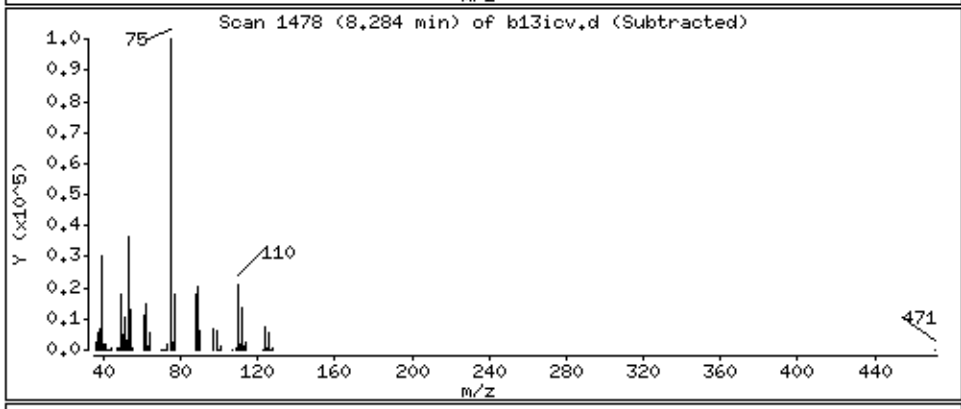
Column diameter: 0.18

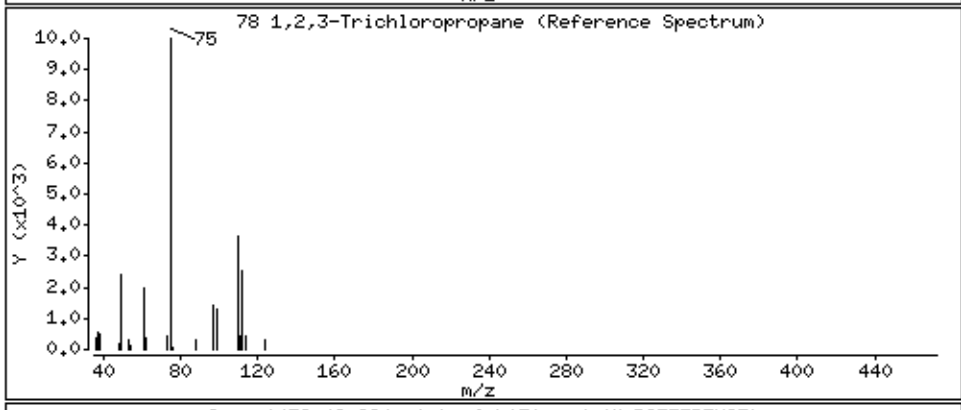
78 1,2,3-Trichloropropane

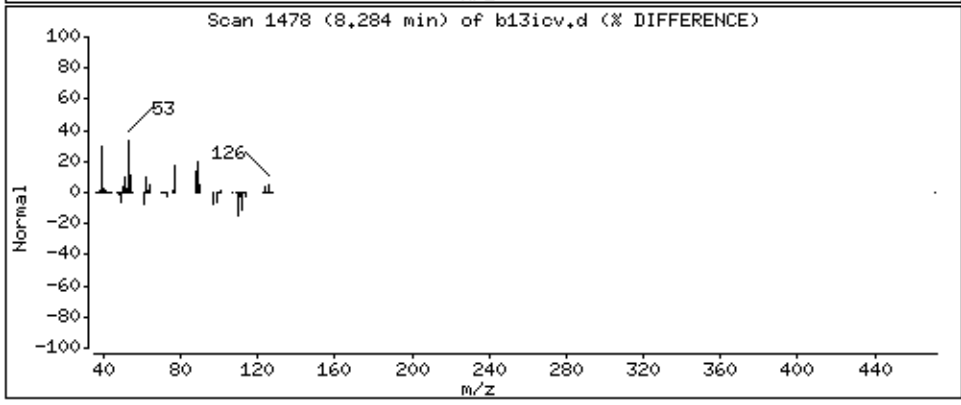
Concentration: 49.1 ppb

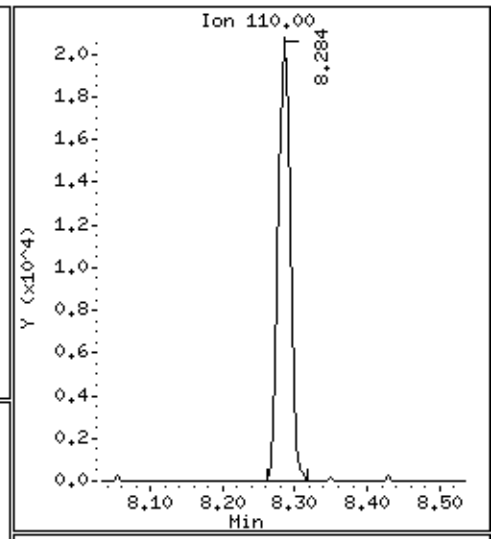
Review Code:

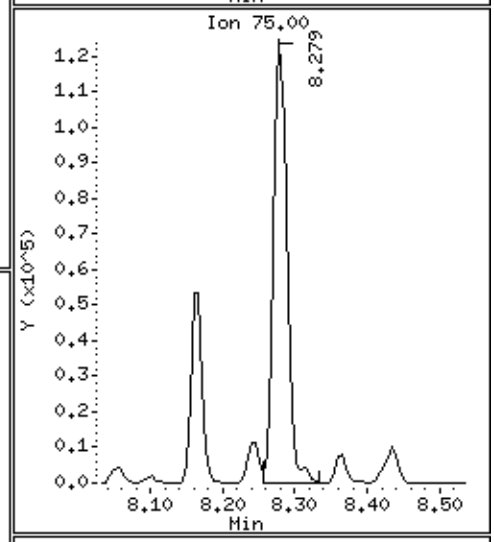


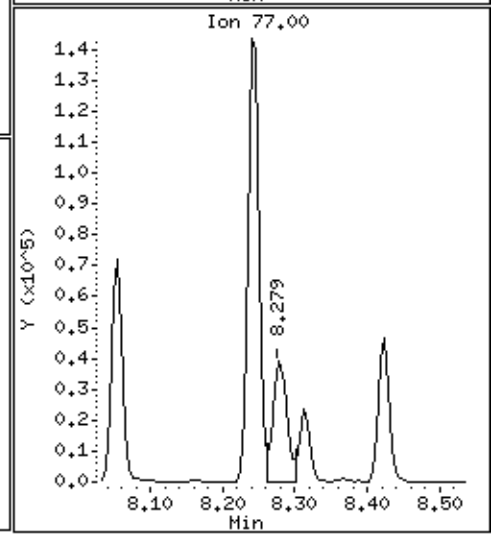












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 79

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

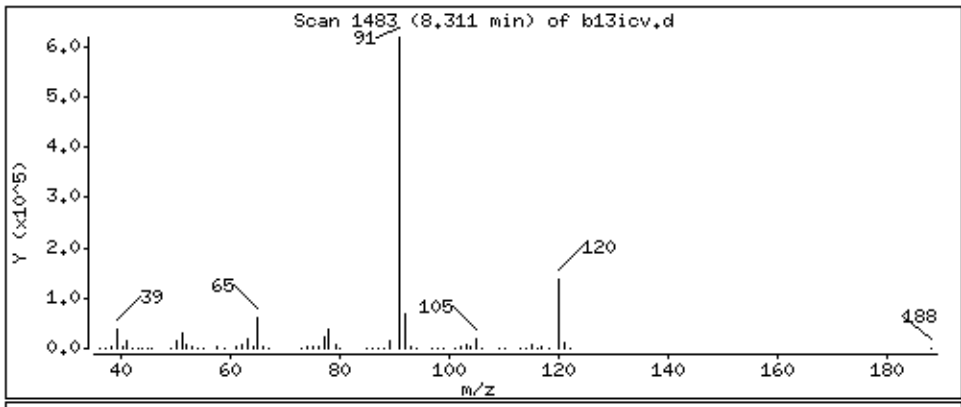
Column phase: DB-624

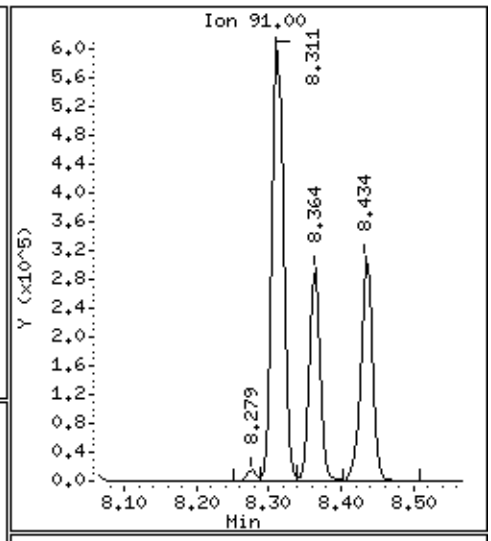
Column diameter: 0.18

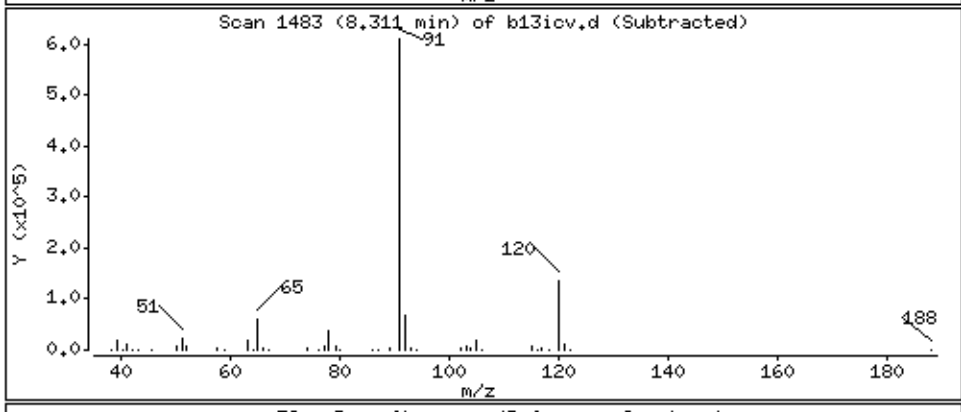
79 n-Propylbenzene

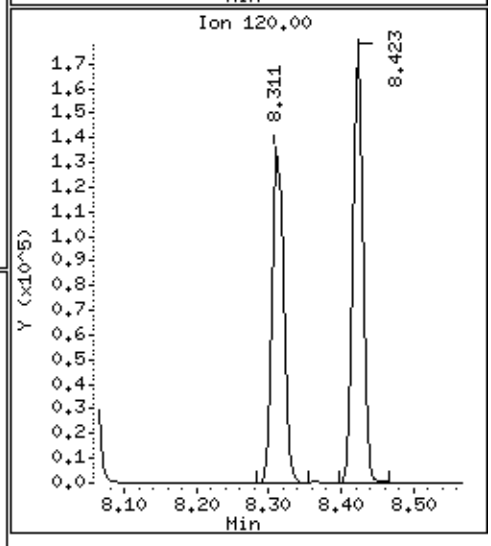
Concentration: 53.0 ppb

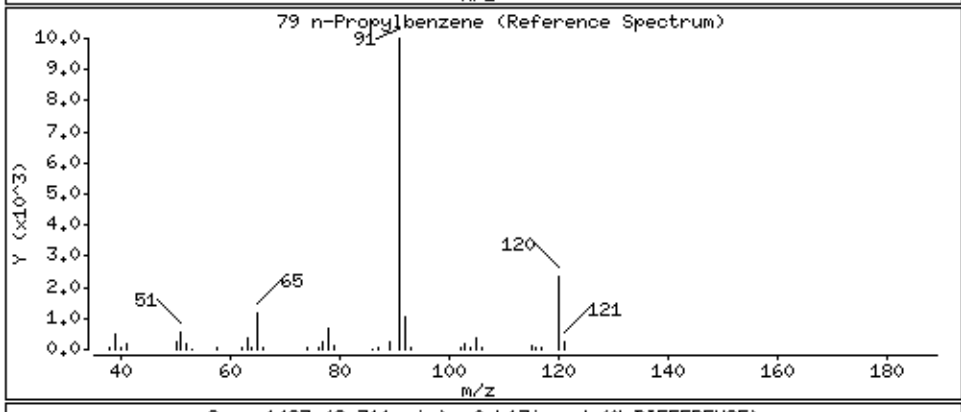
Review Code:

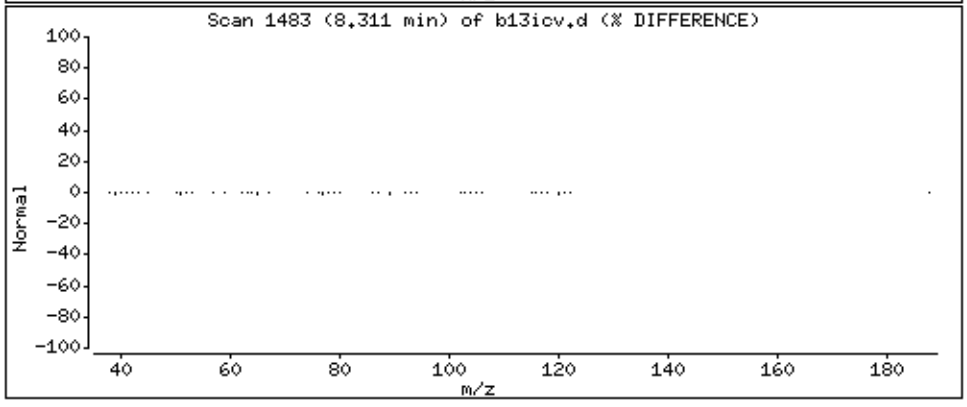












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

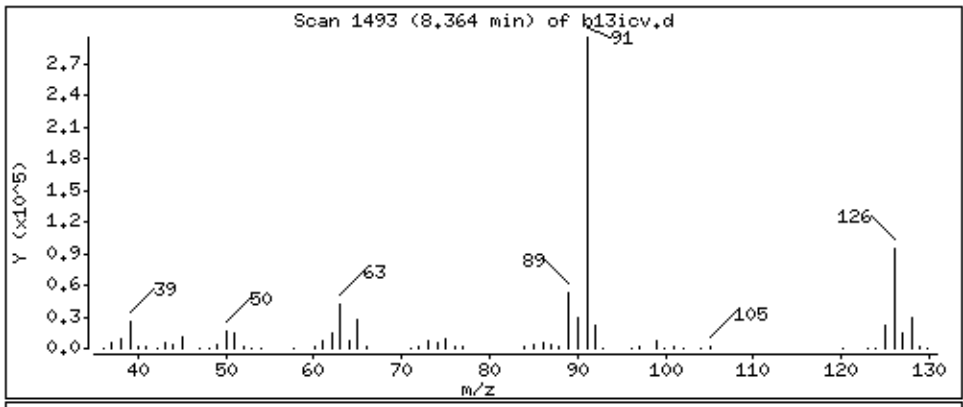
Column phase: DB-624

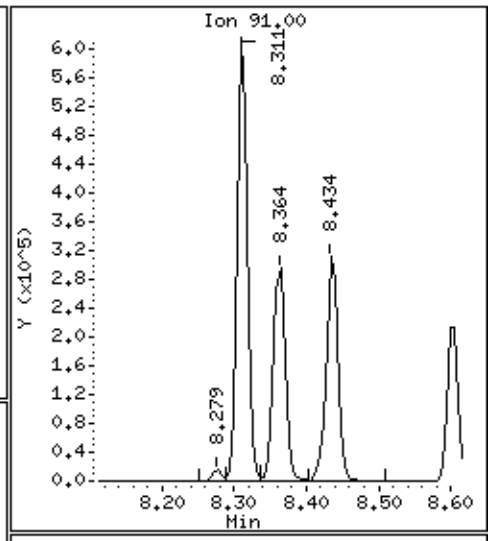
Column diameter: 0.18

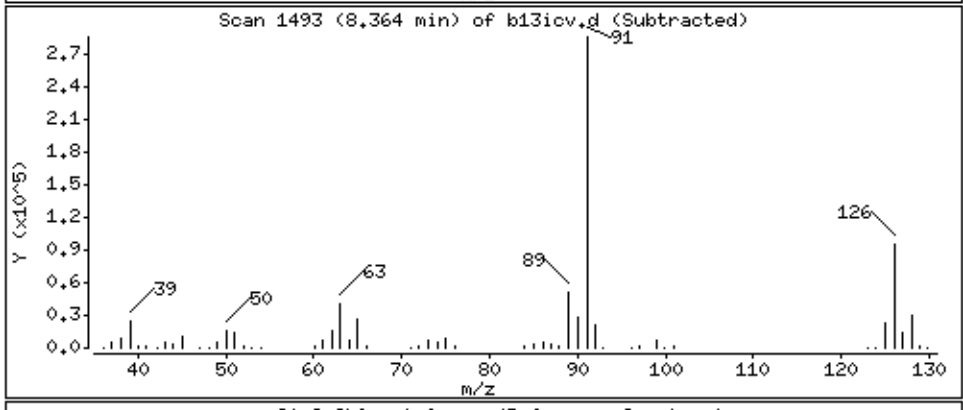
80 2-Chlorotoluene

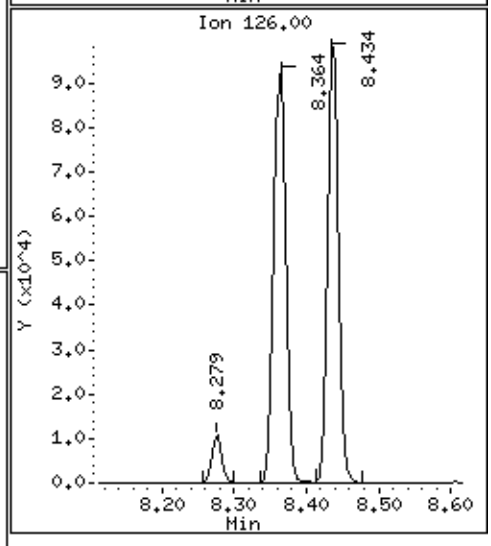
Concentration: 49.9 ppb

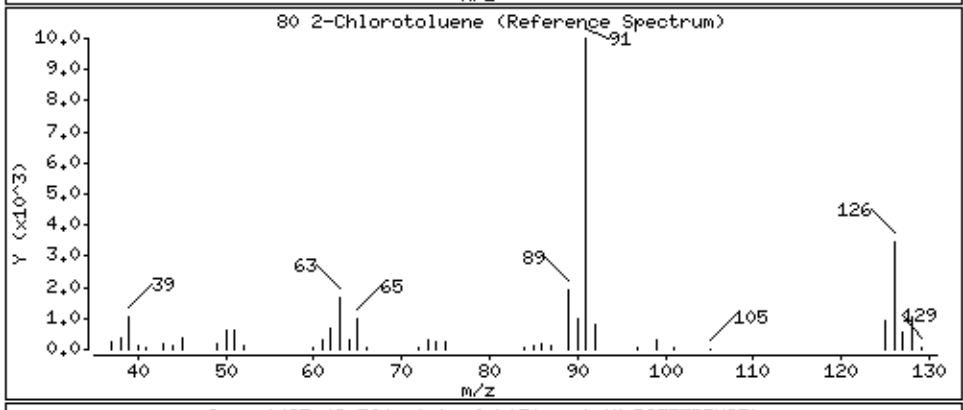
Review Code:

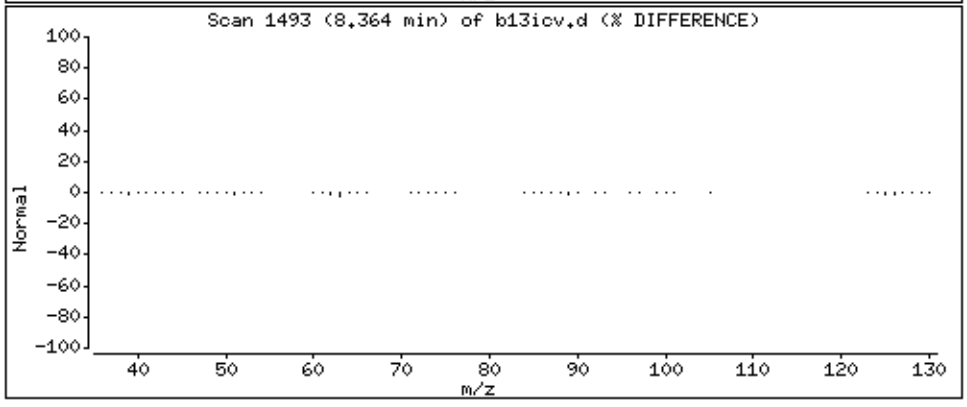












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

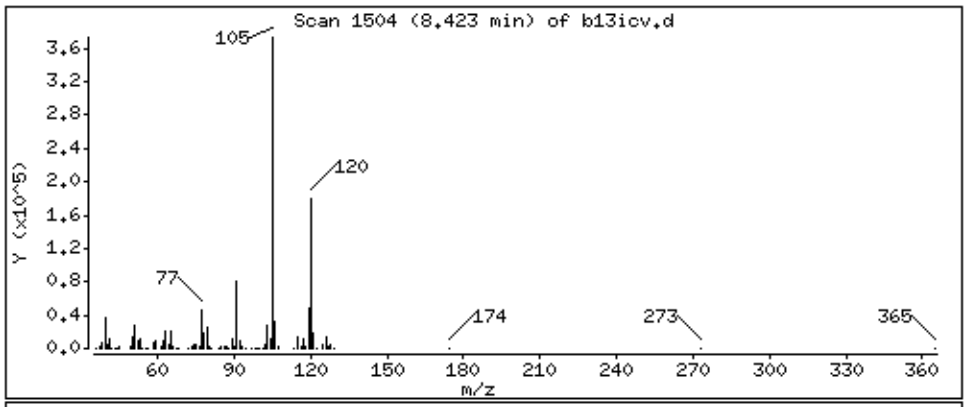
Column phase: DB-624

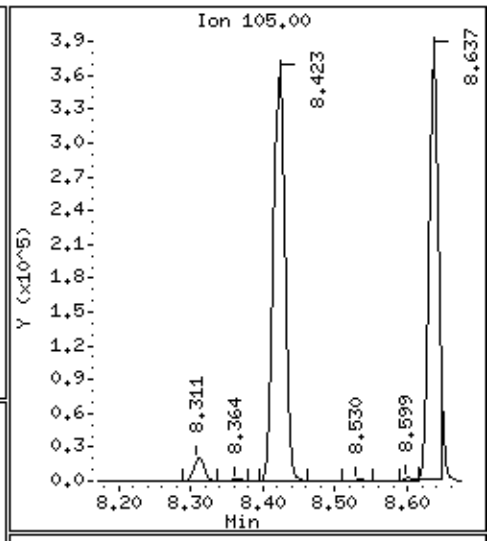
Column diameter: 0.18

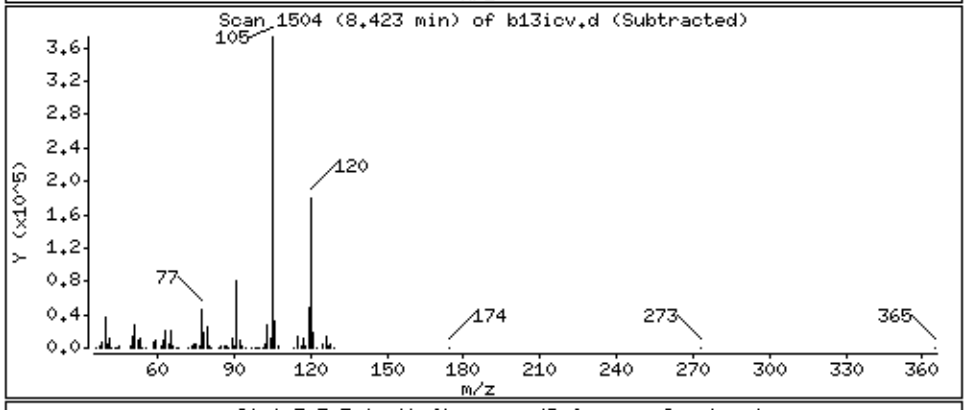
81 1,3,5-Trimethylbenzene

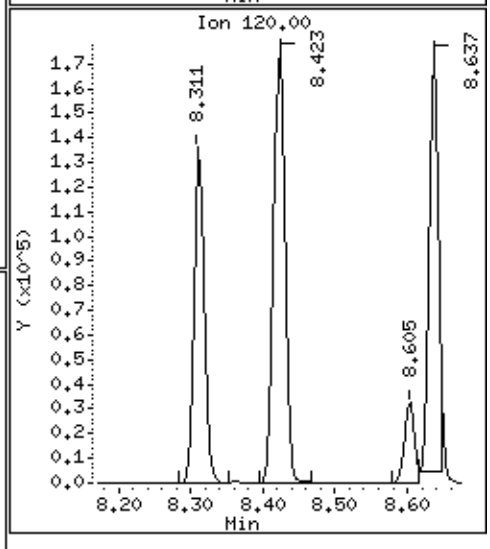
Concentration: 50.1 ppb

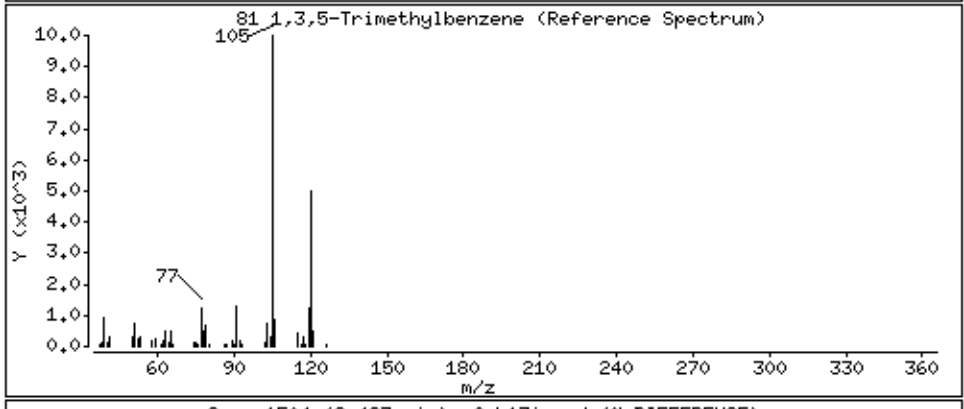
Review Code:

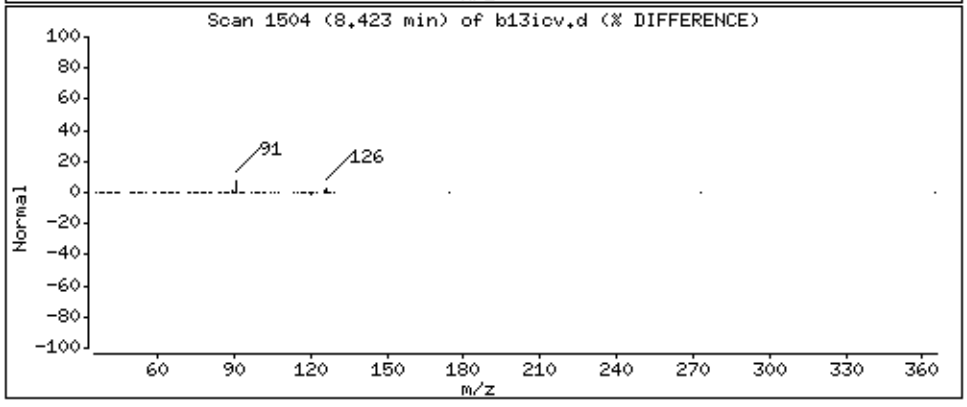












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

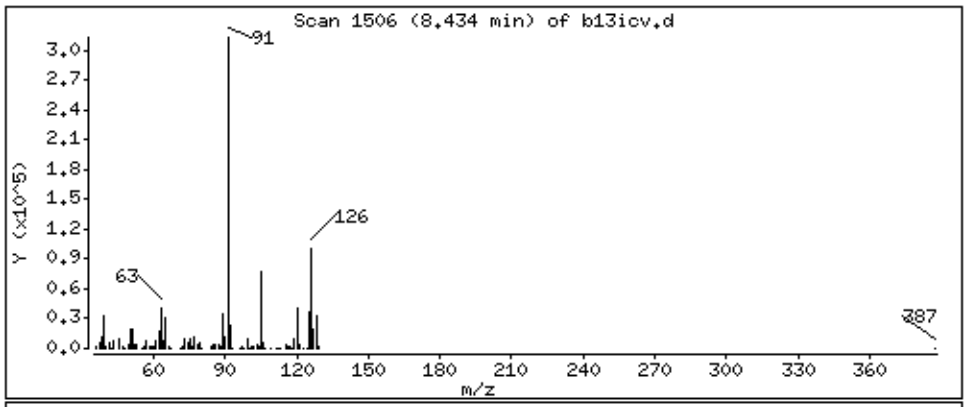
Column phase: DB-624

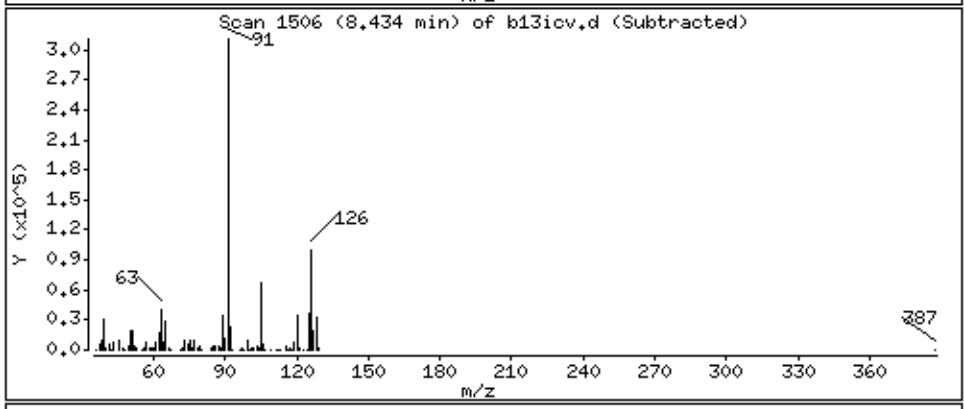
Column diameter: 0.18

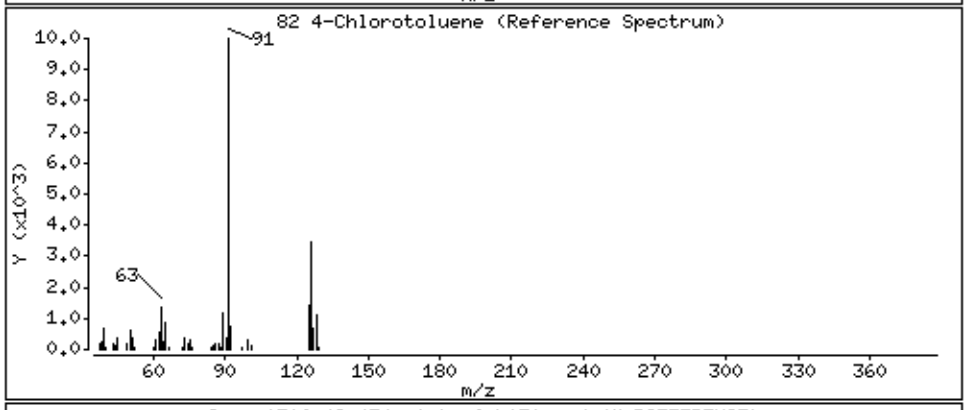
82 4-Chlorotoluene

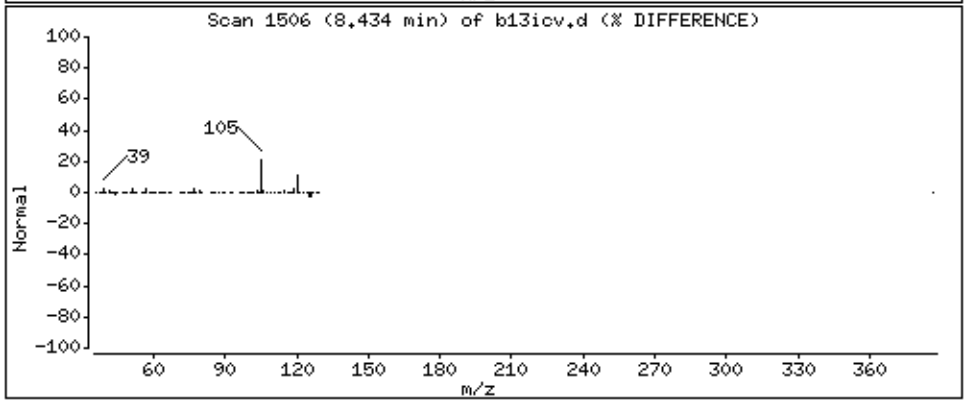
Concentration: 49.1 ppb

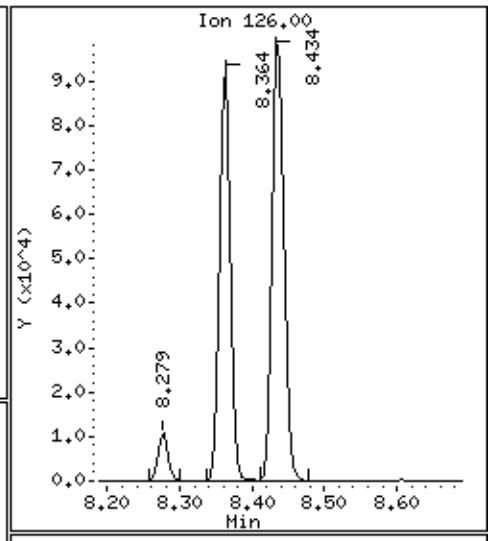
Review Code:

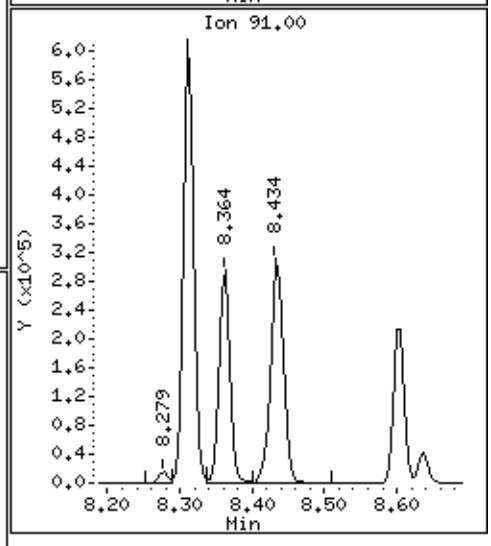












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 83

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

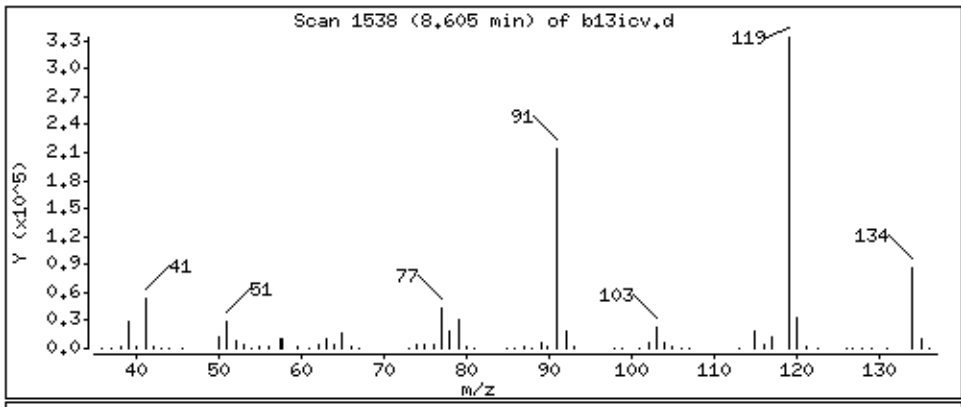
Column phase: DB-624

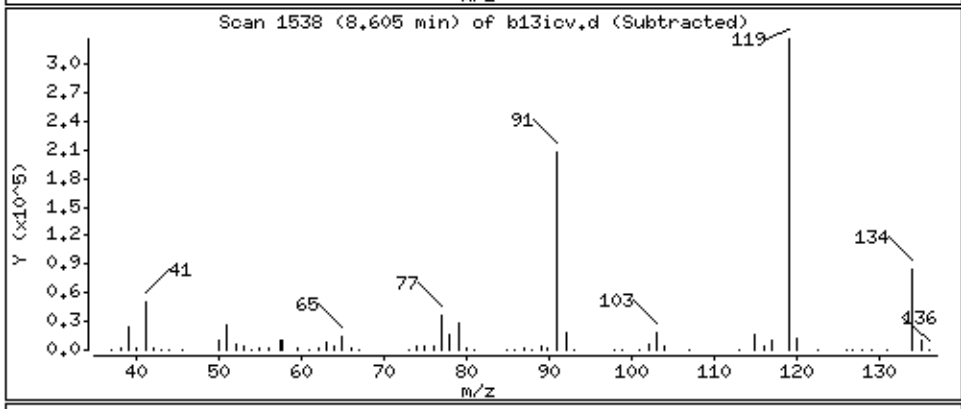
Column diameter: 0.18

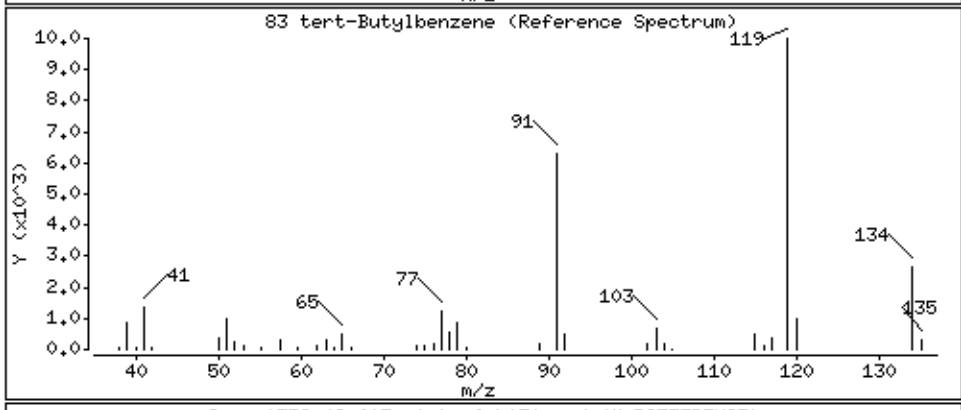
83 tert-Butylbenzene

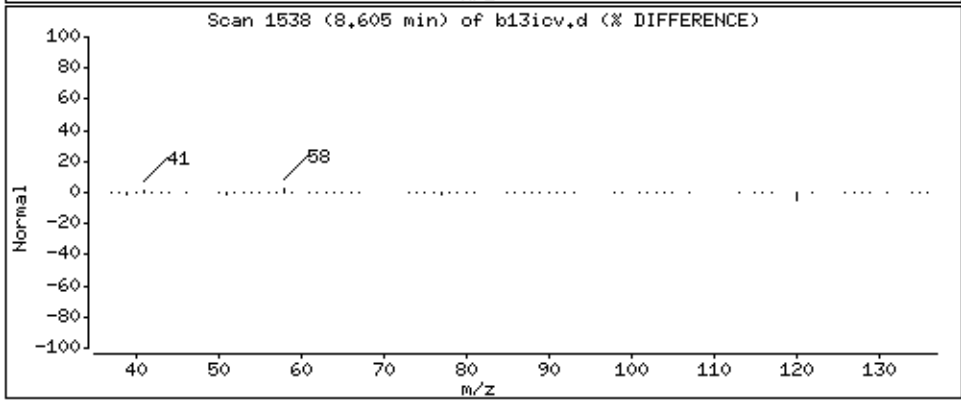
Concentration: 41.8 ppb

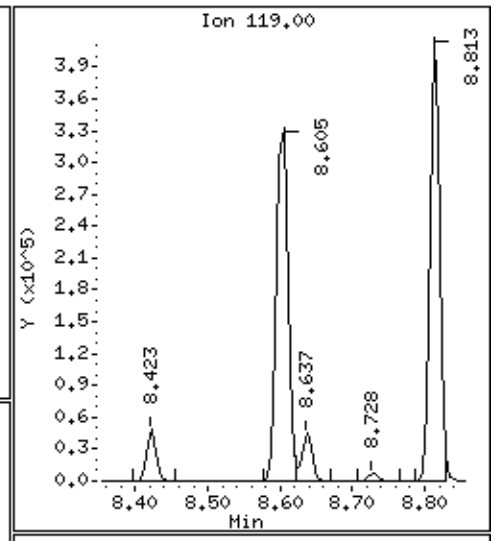
Review Code:

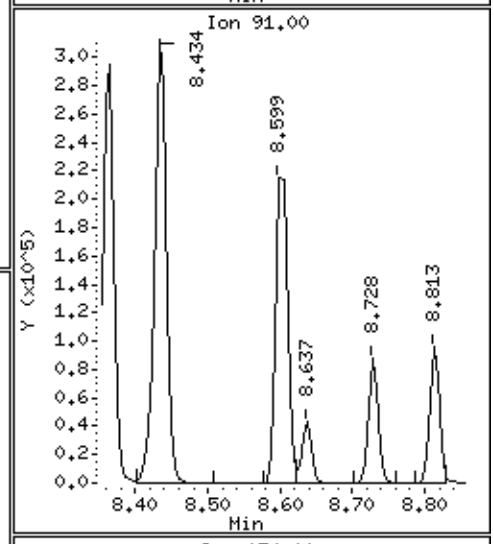


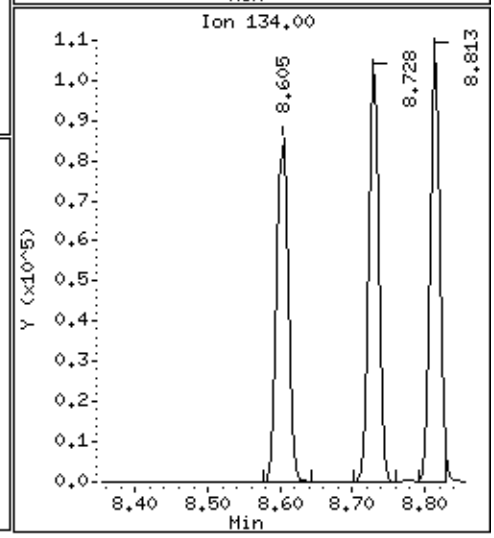












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 84

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

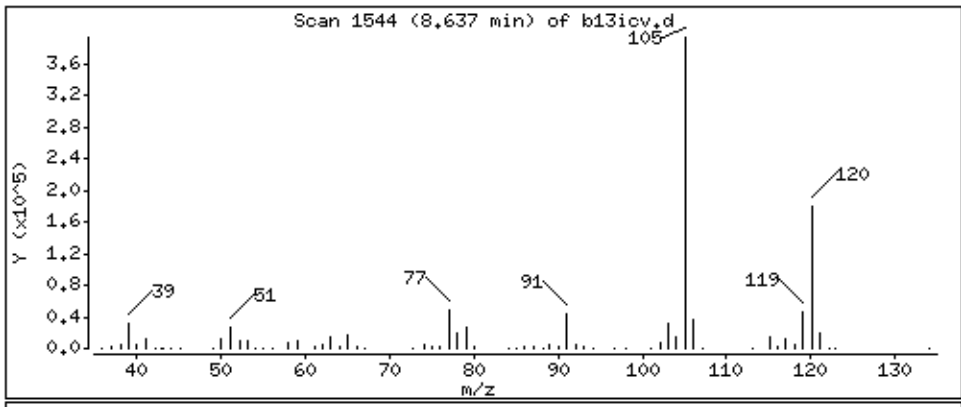
Column phase: DB-624

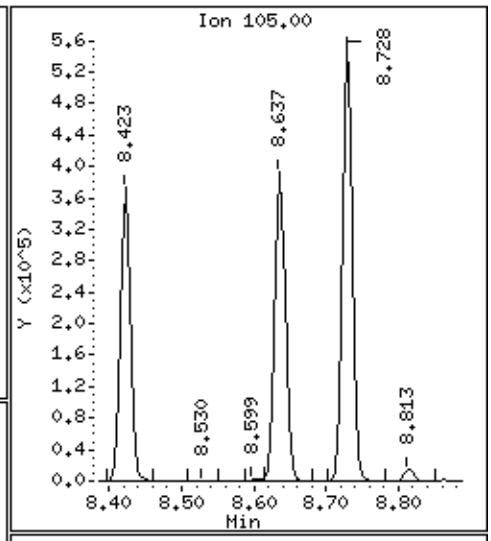
Column diameter: 0.18

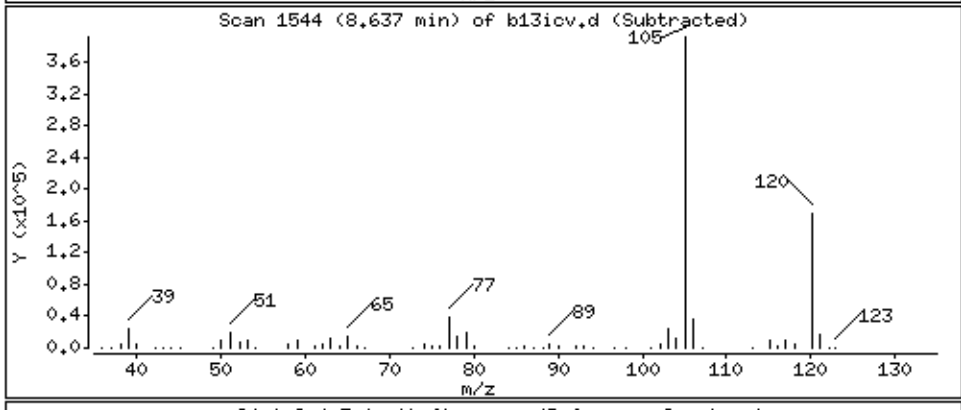
84 1,2,4-Trimethylbenzene

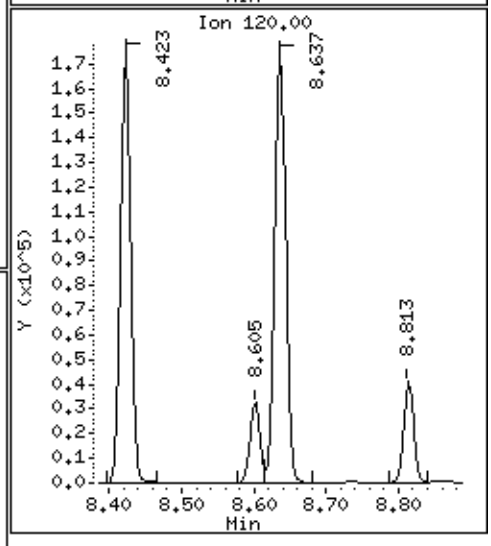
Concentration: 48.7 ppb

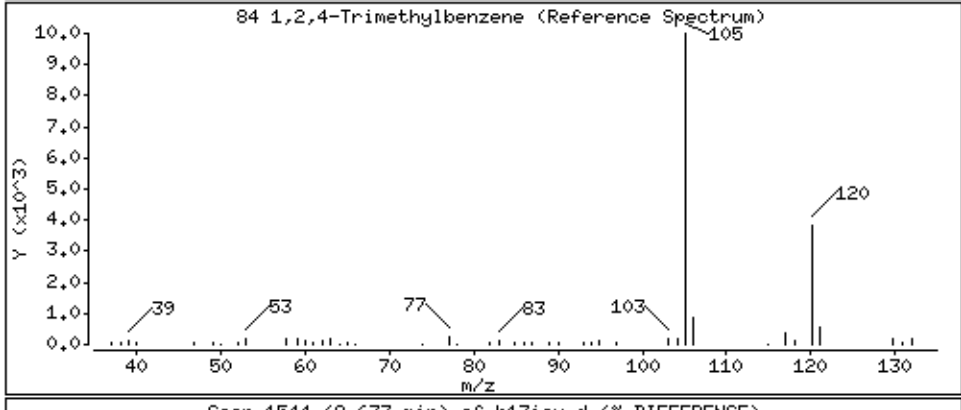
Review Code:

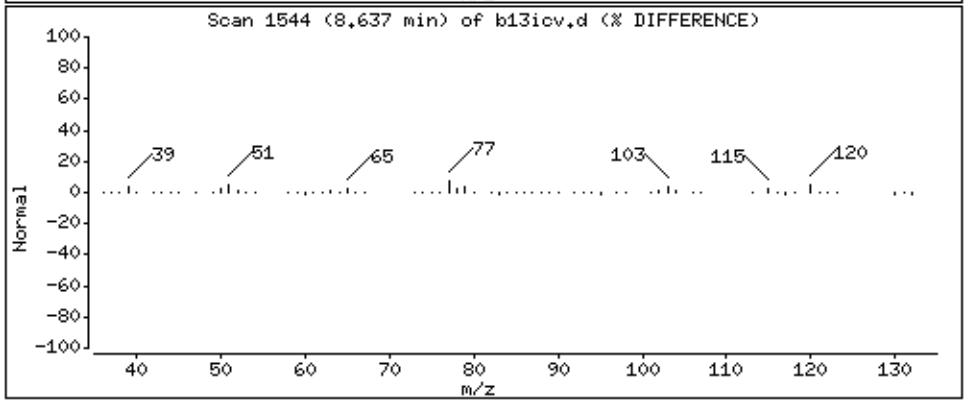












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

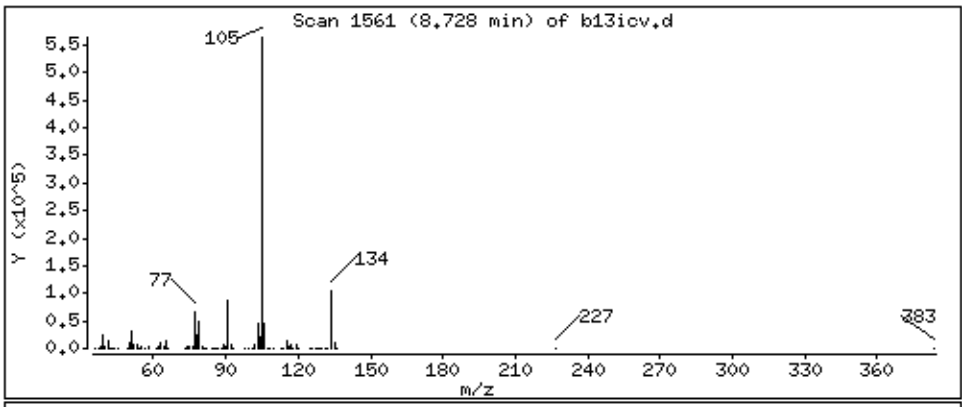
Column phase: DB-624

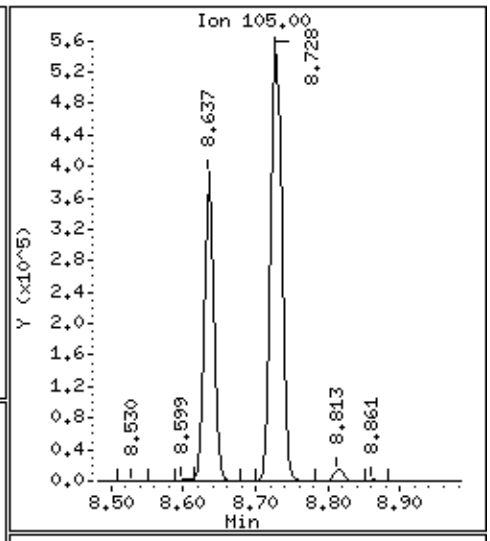
Column diameter: 0.18

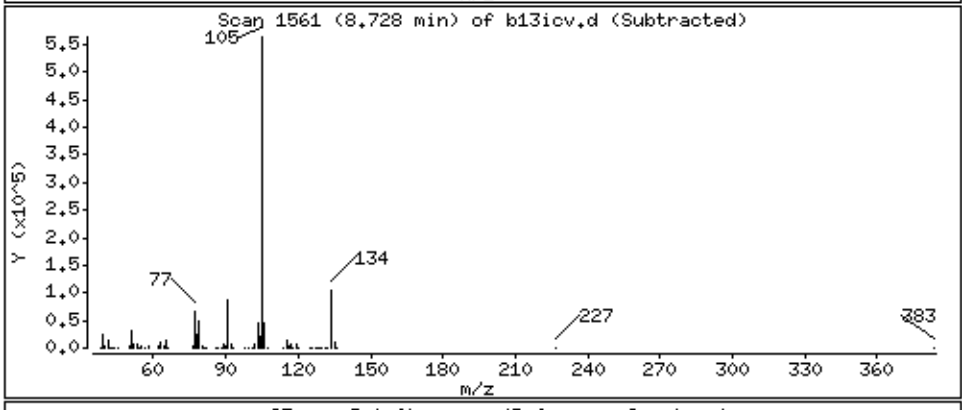
85 sec-Butylbenzene

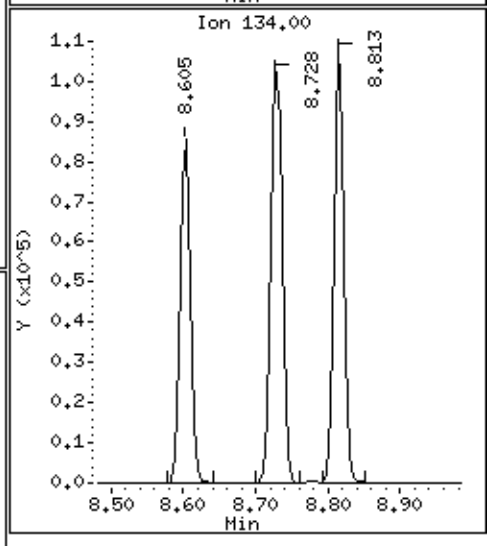
Concentration: 55.4 ppb

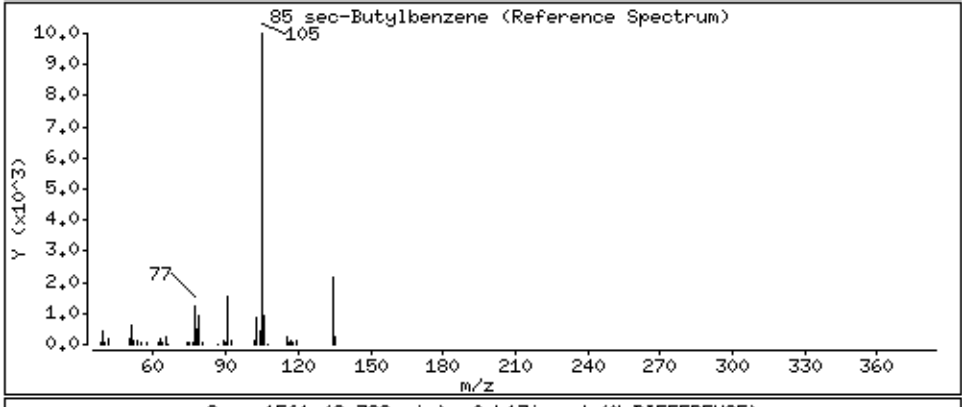
Review Code:

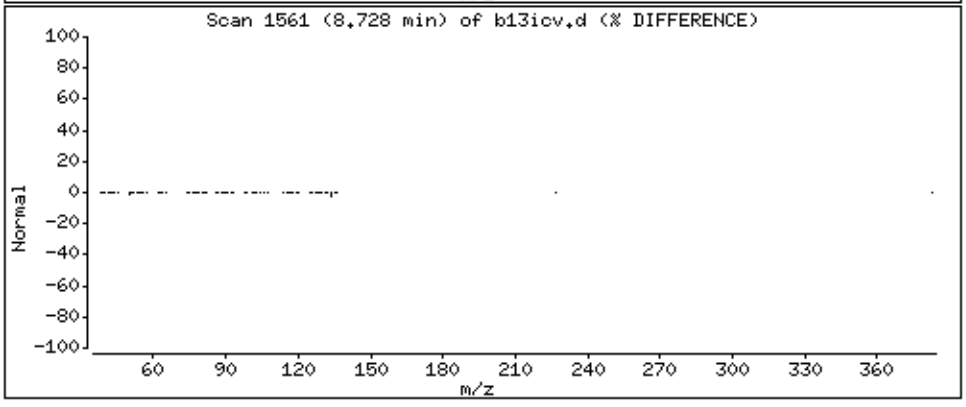












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

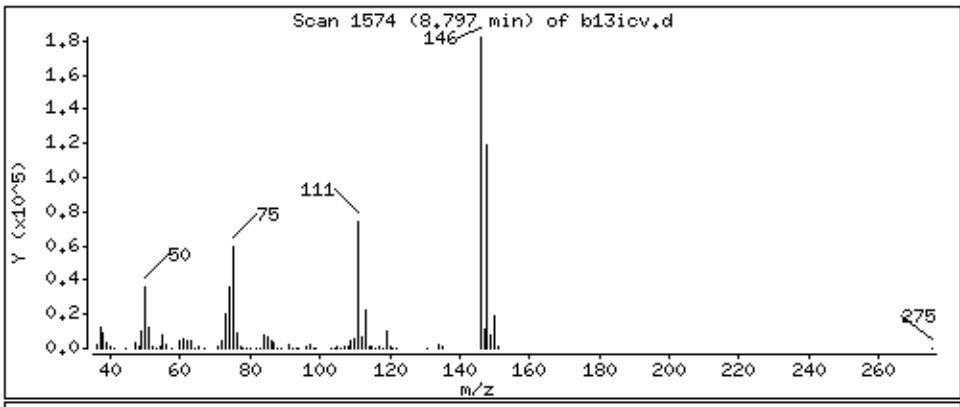
Column phase: DB-624

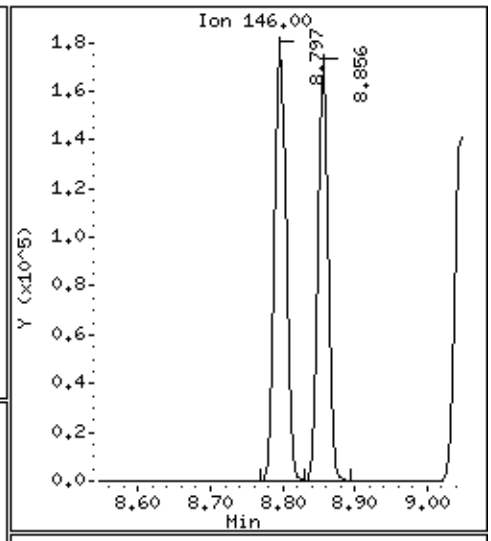
Column diameter: 0.18

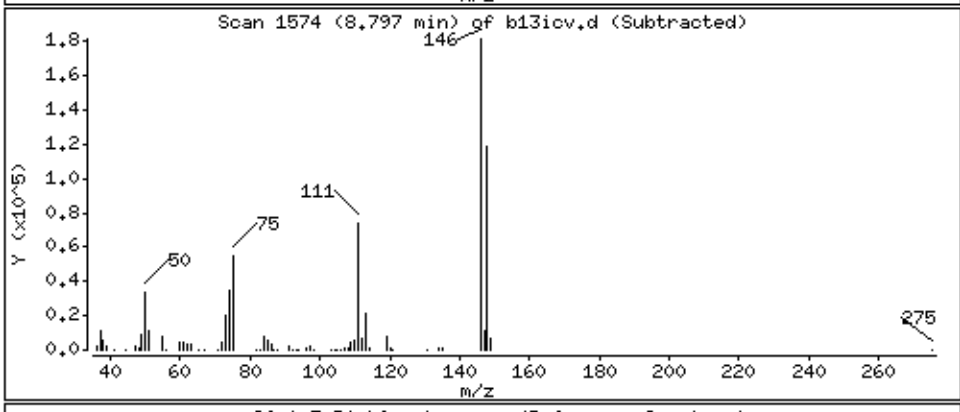
86 1,3-Dichlorobenzene

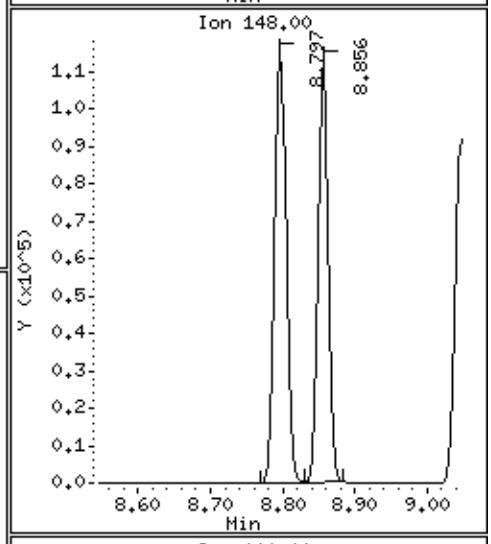
Concentration: 48.6 ppb

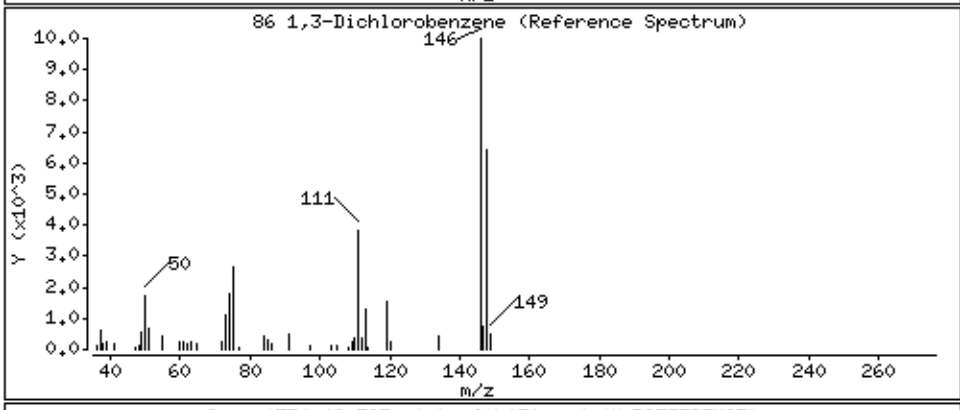
Review Code:

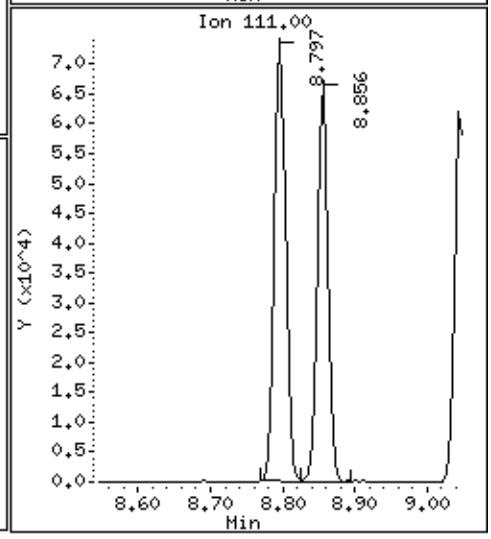


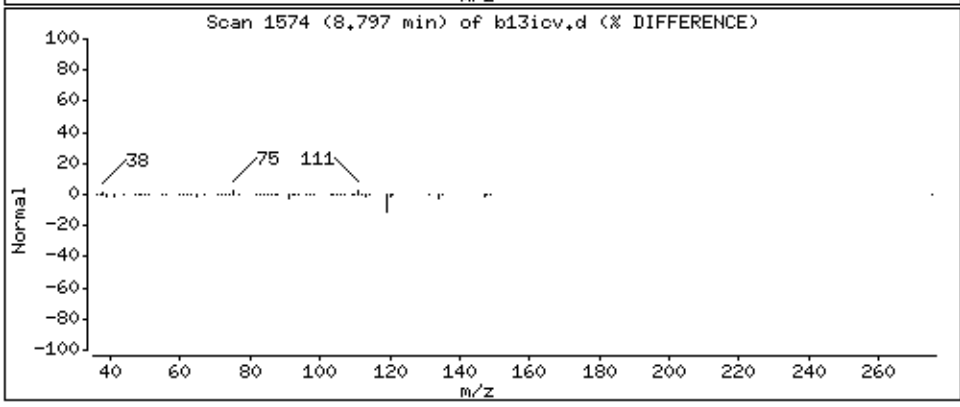












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 87

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

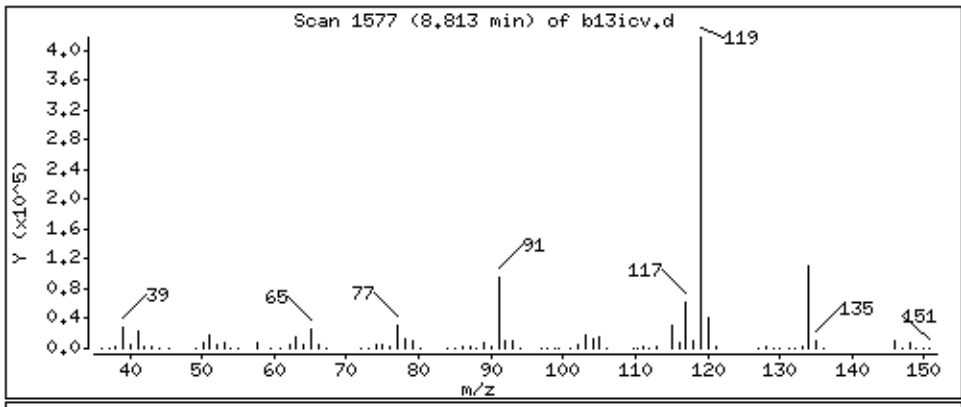
Column phase: DB-624

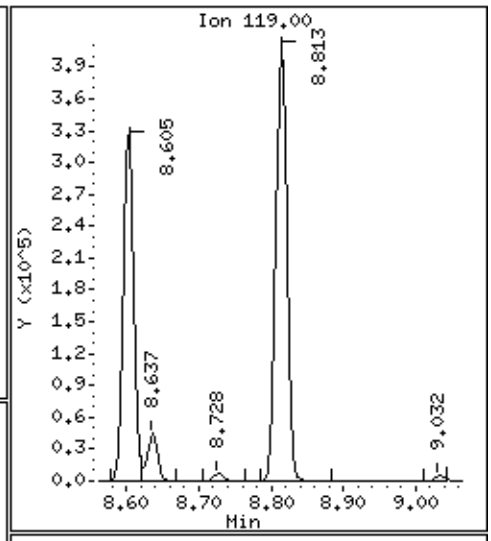
Column diameter: 0.18

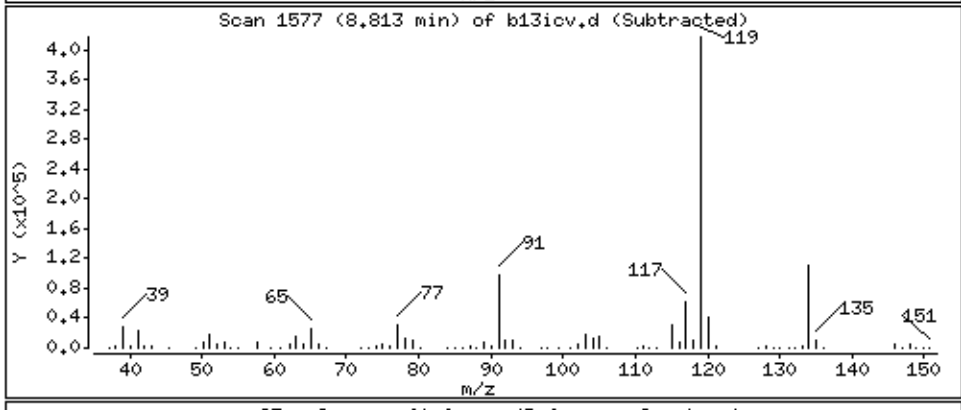
87 p-Isopropyltoluene

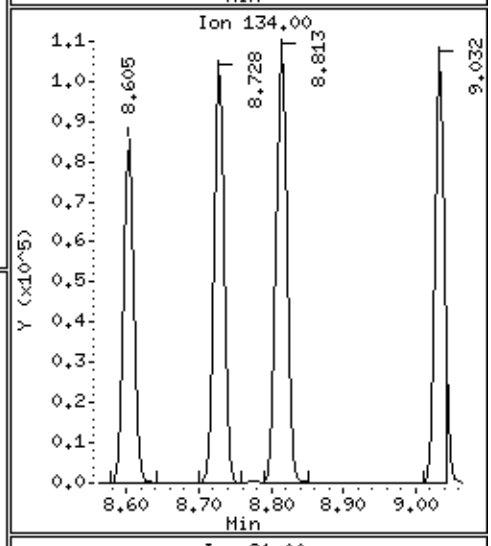
Concentration: 49.5 ppb

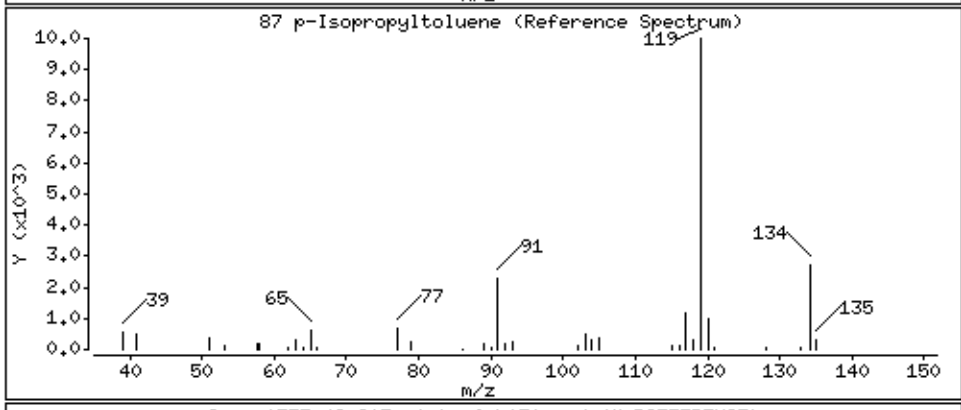
Review Code:

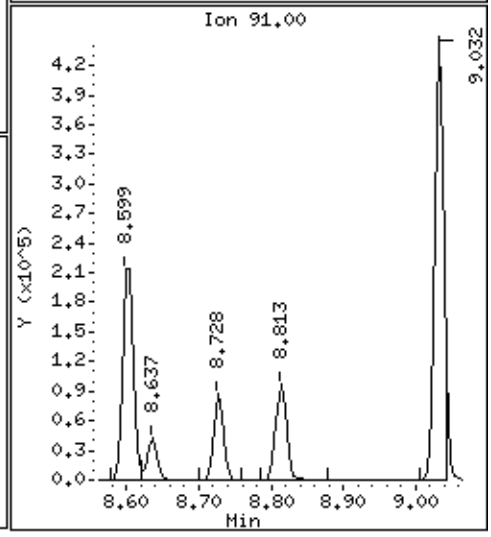


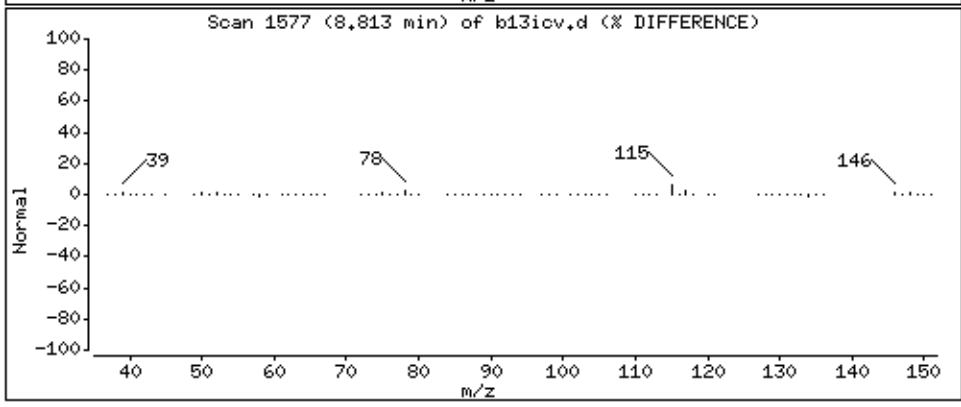












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Page 88

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

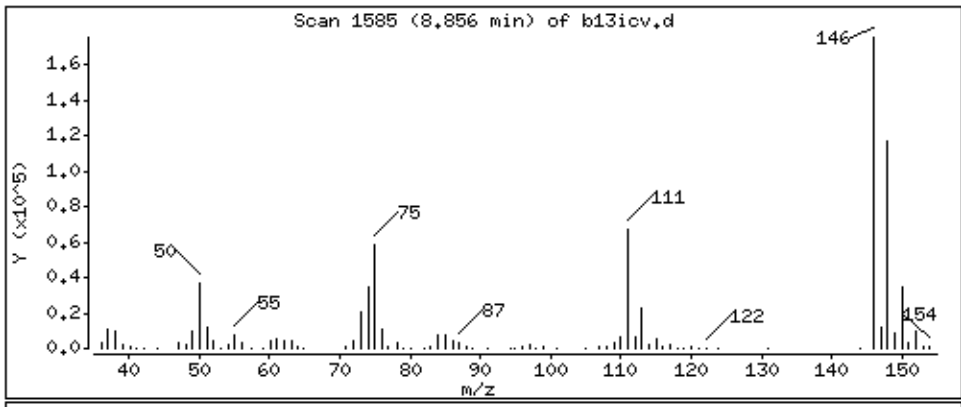
Column phase: DB-624

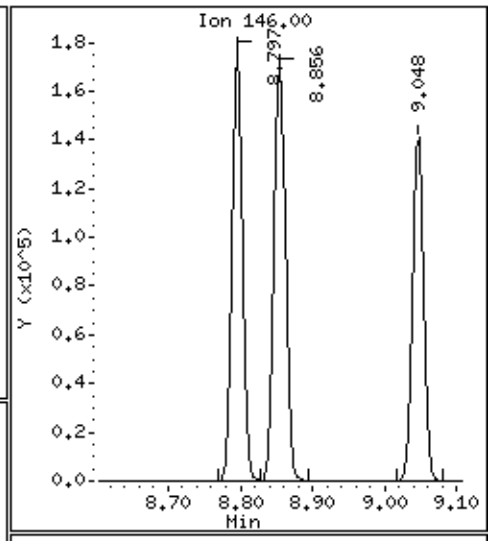
Column diameter: 0.18

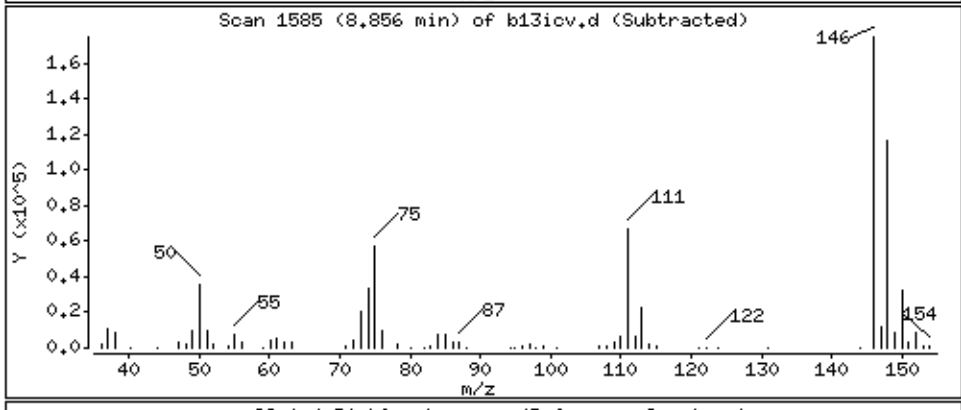
89 1,4-Dichlorobenzene

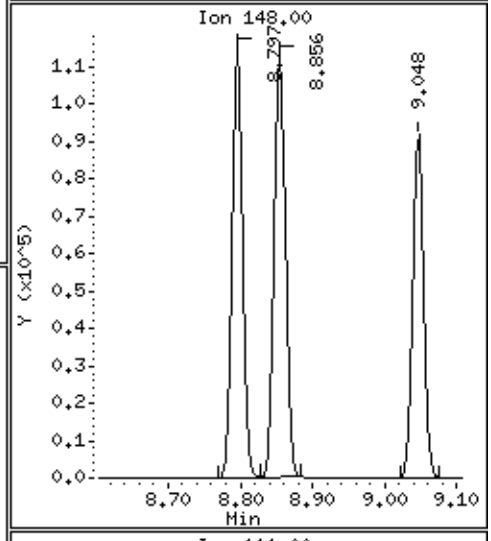
Concentration: 47.5 ppb

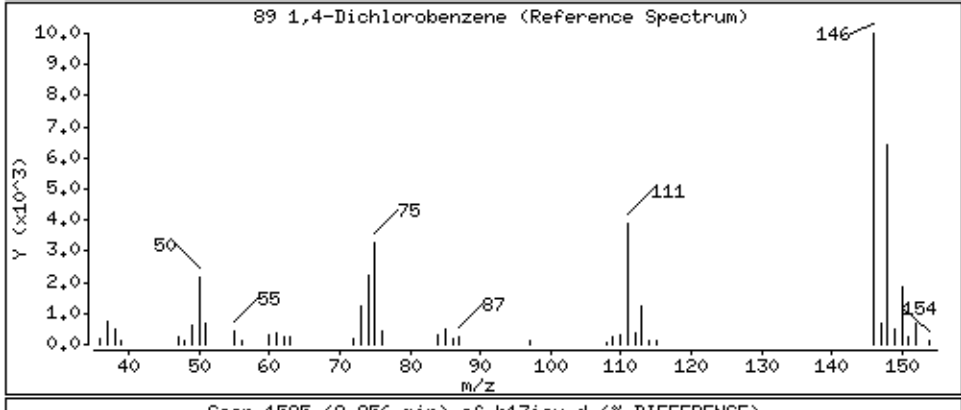
Review Code:

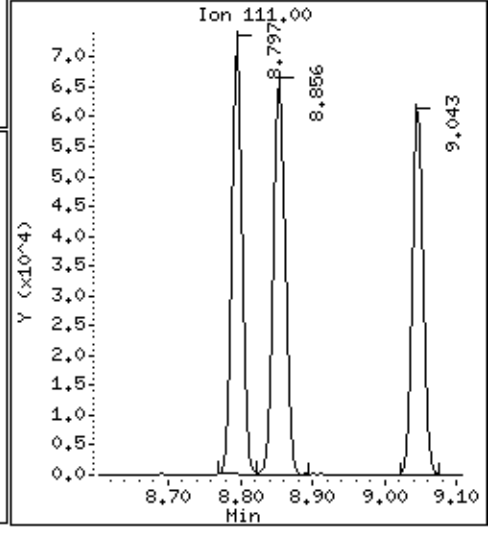


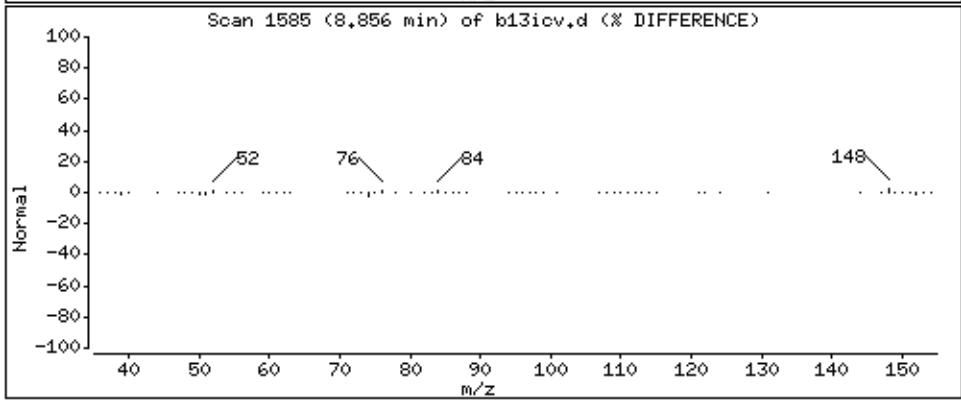












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d Page 89

Date : 25-MAR-2016 20:42

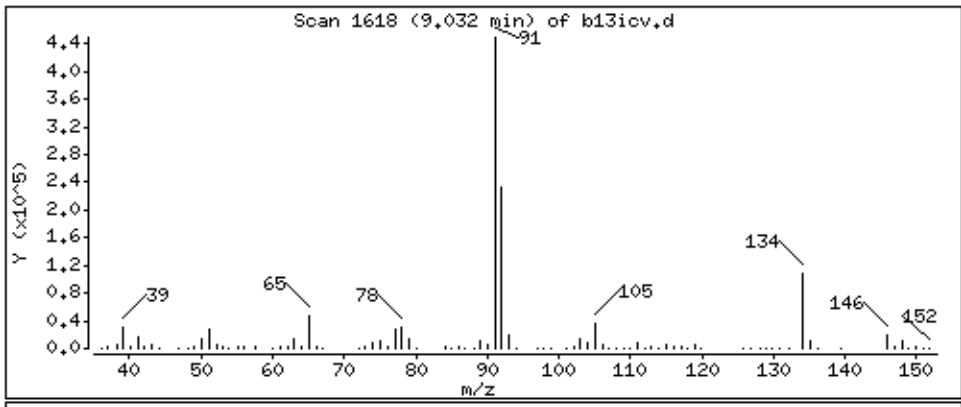
Client ID: Instrument: 50mv3b.i

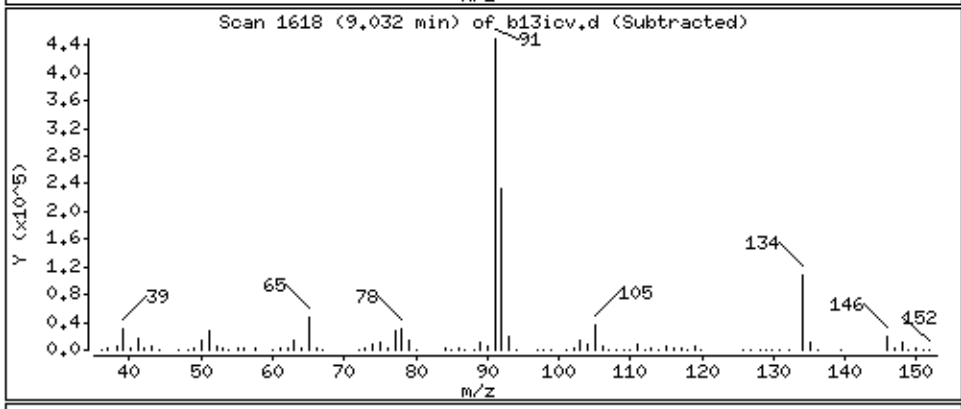
Sample Info: 8260-ICV,117894:0

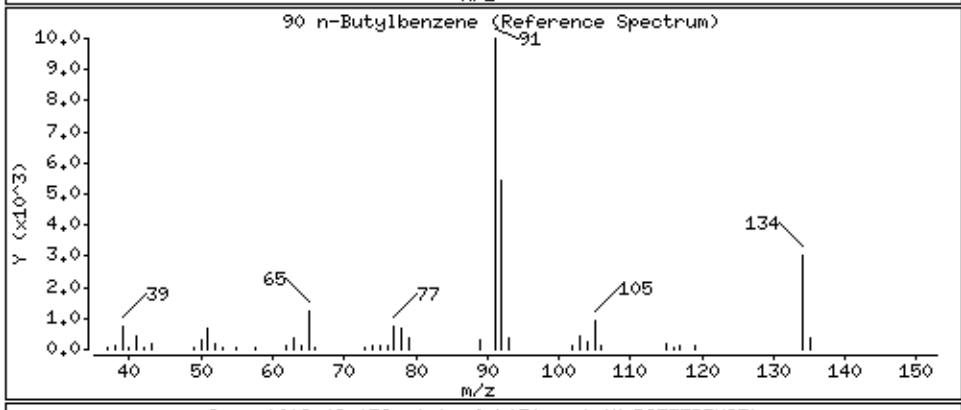
Purge Volume: 5.0 Operator: jlz

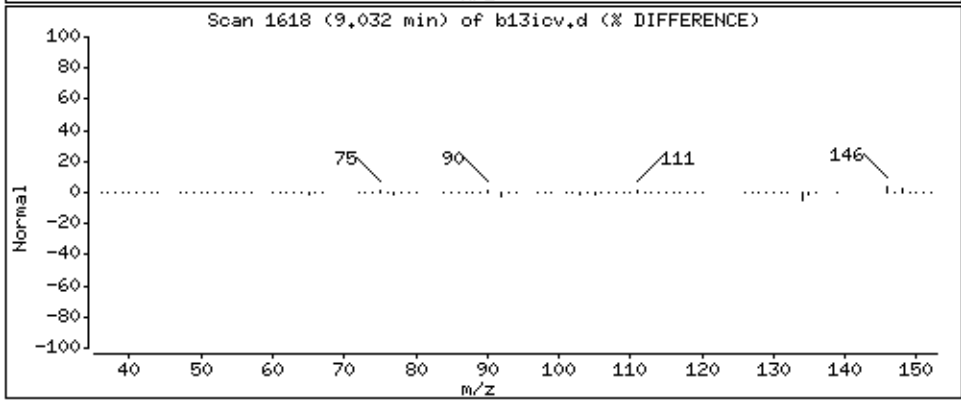
Column phase: DB-624 Column diameter: 0.18

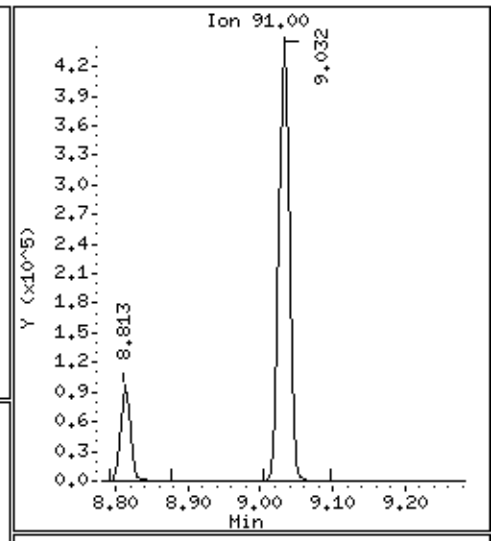
90 n-Butylbenzene Concentration: 50.6 ppb Review Code:

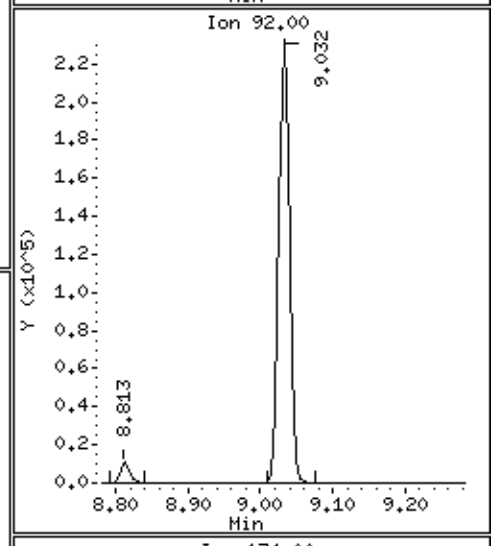


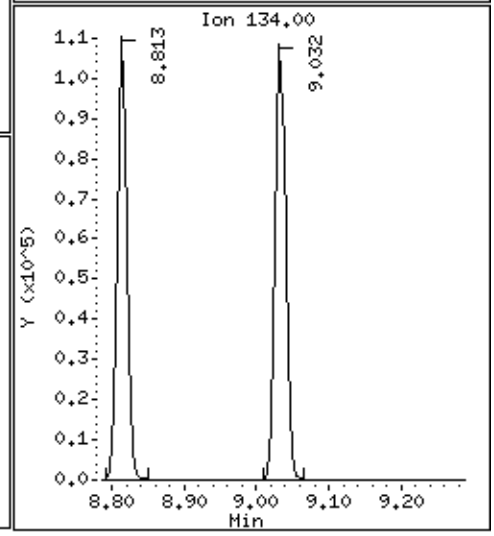












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

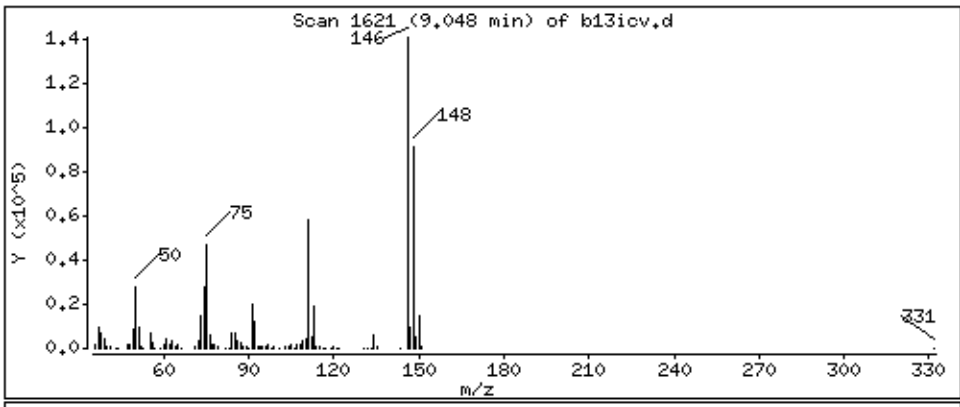
Column phase: DB-624

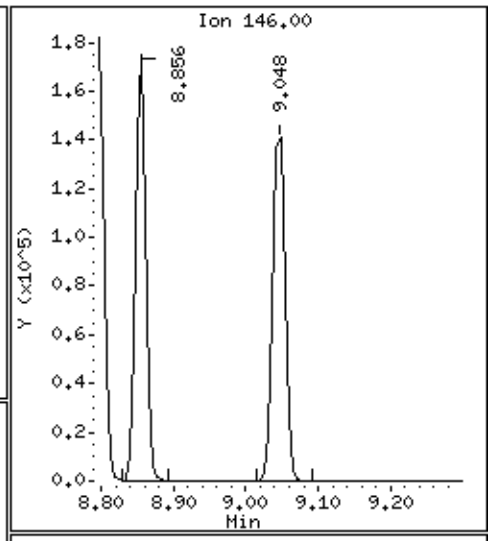
Column diameter: 0.18

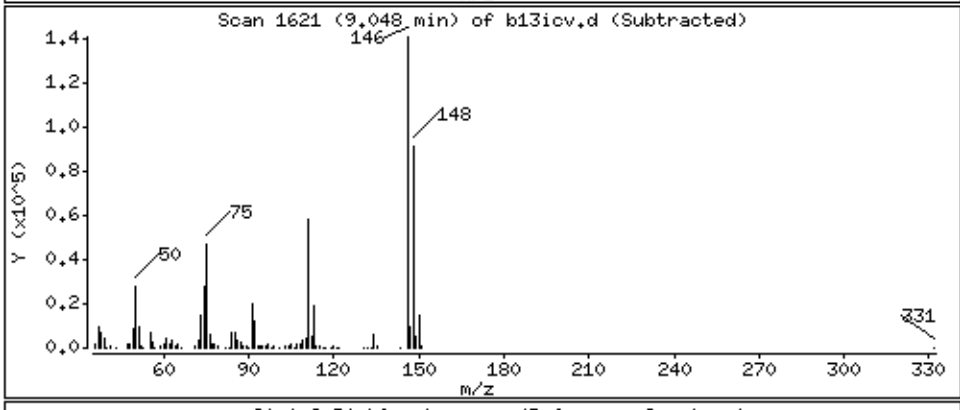
91 1,2-Dichlorobenzene

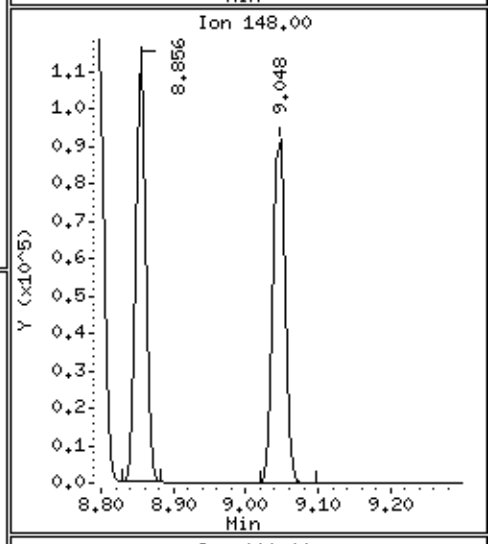
Concentration: 46.2 ppb

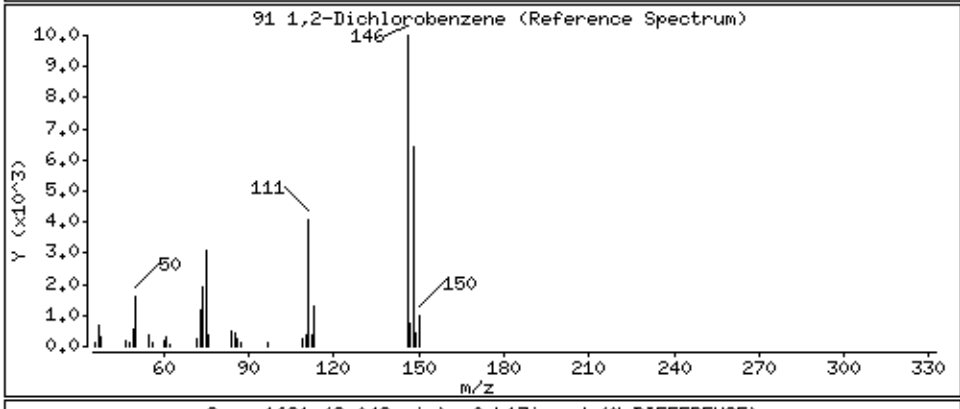
Review Code:

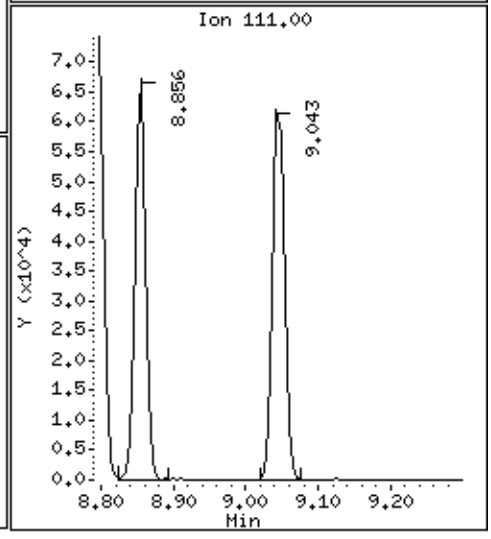


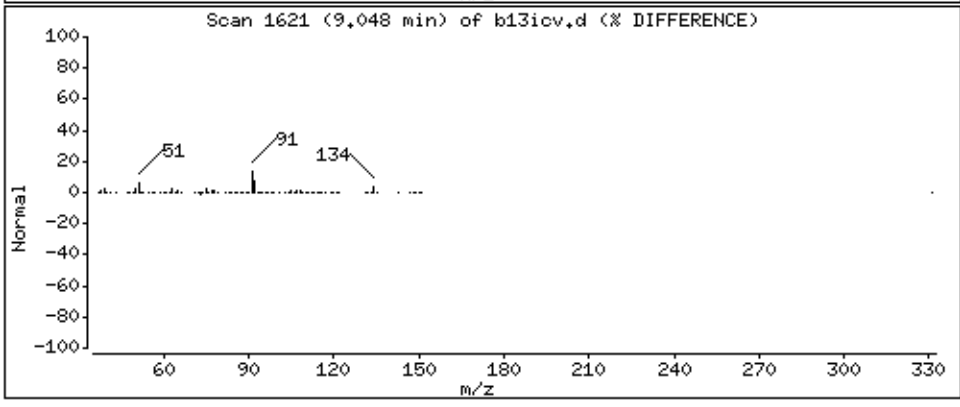












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

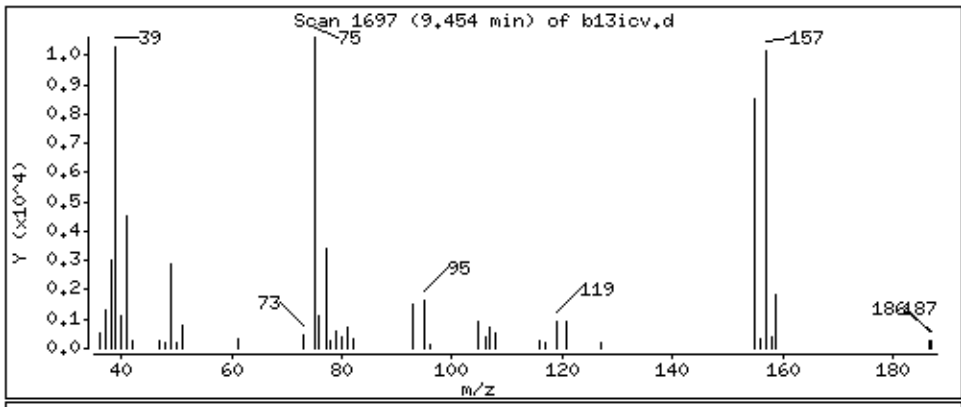
Column phase: DB-624

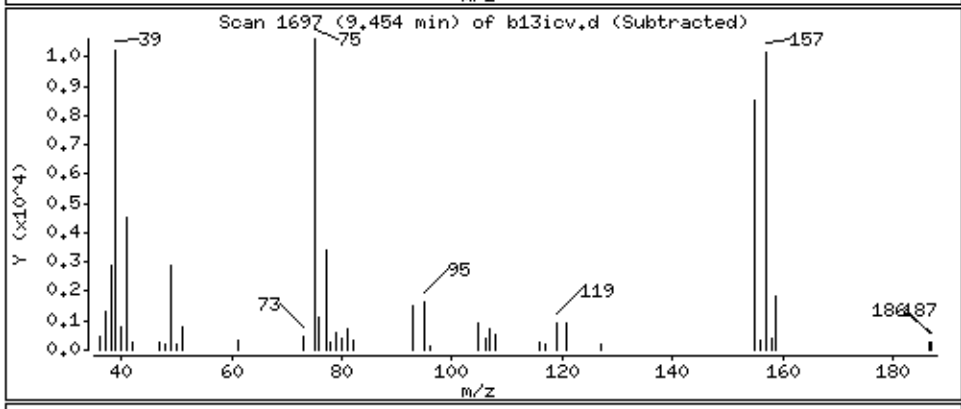
Column diameter: 0.18

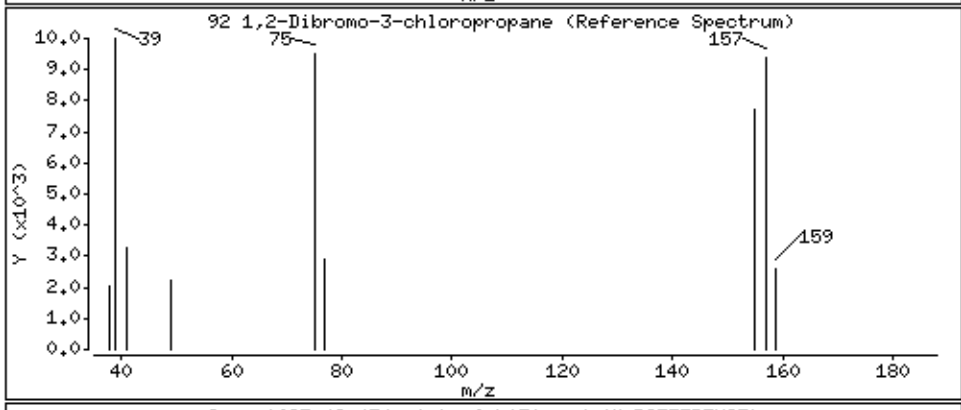
92 1,2-Dibromo-3-chloropropane

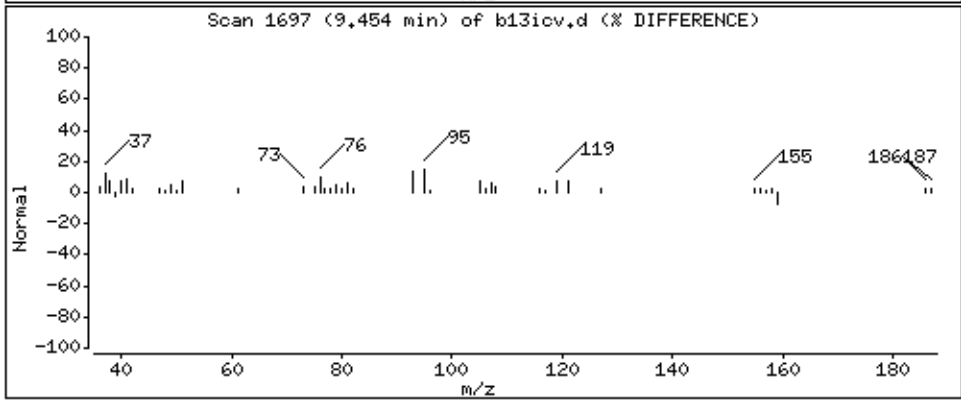
Concentration: 59.4 ppb

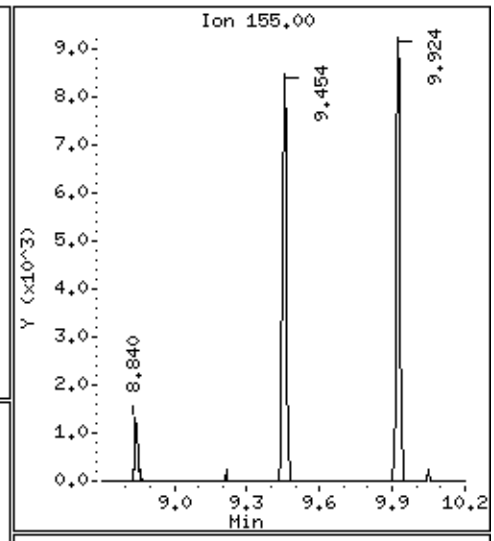
Review Code:

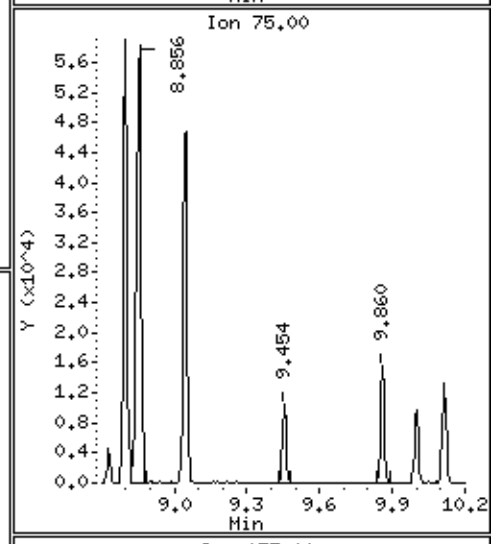


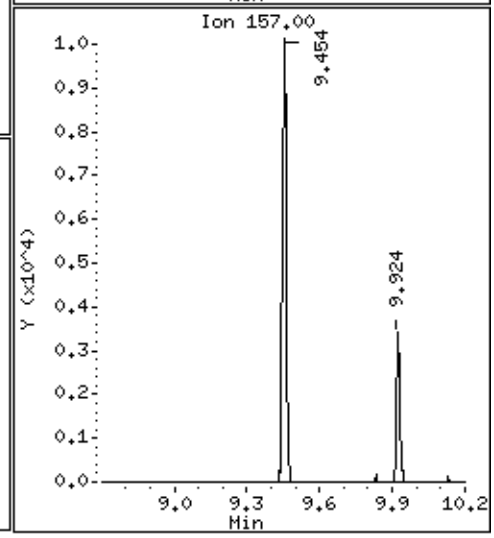












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

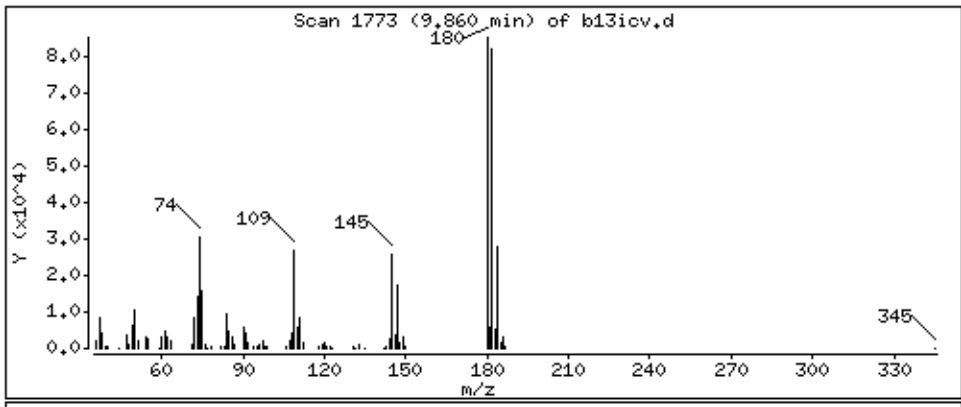
Column phase: DB-624

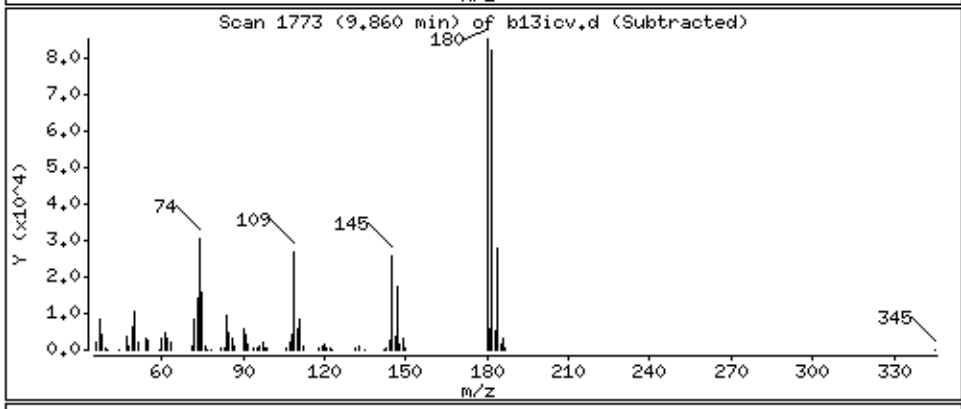
Column diameter: 0.18

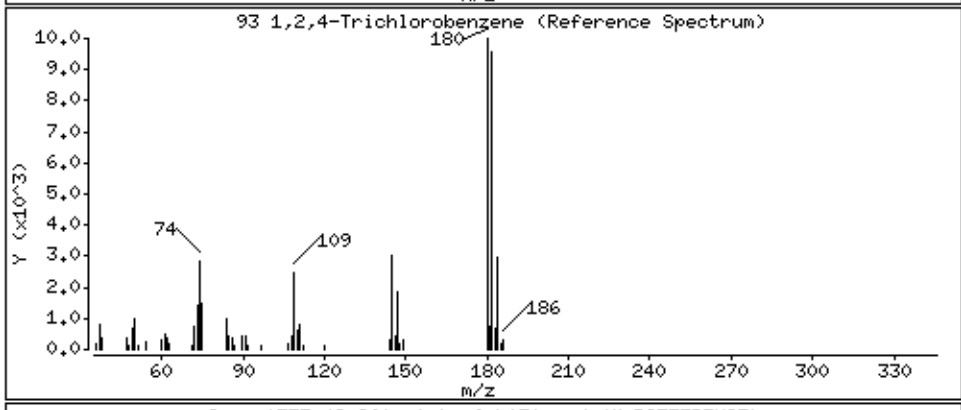
93 1,2,4-Trichlorobenzene

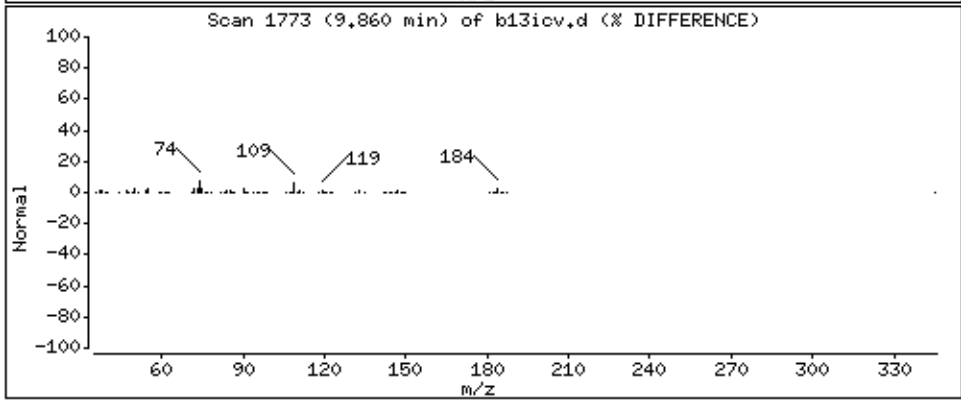
Concentration: 48.6 ppb

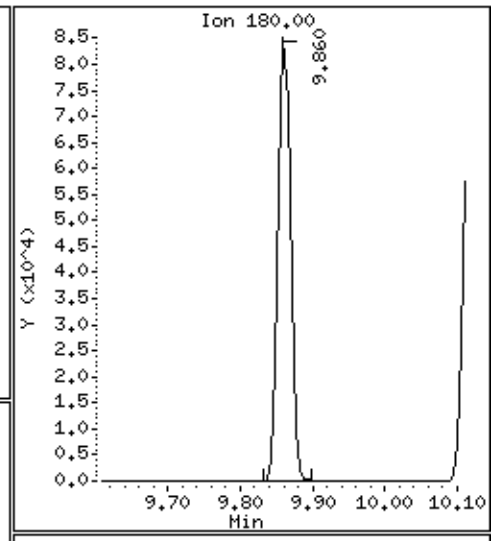
Review Code:

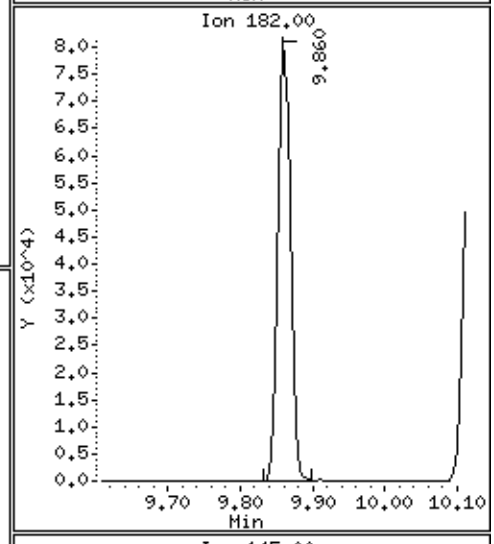


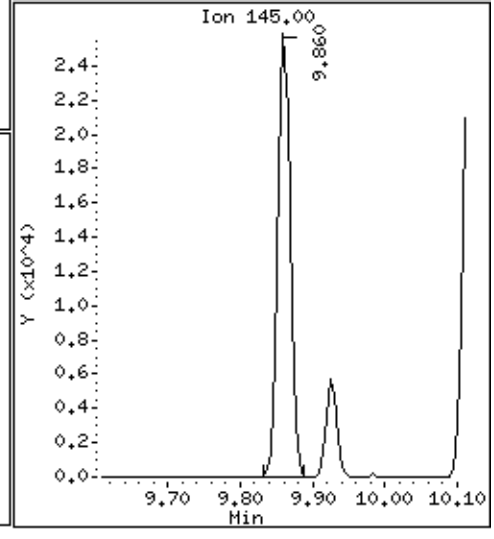












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

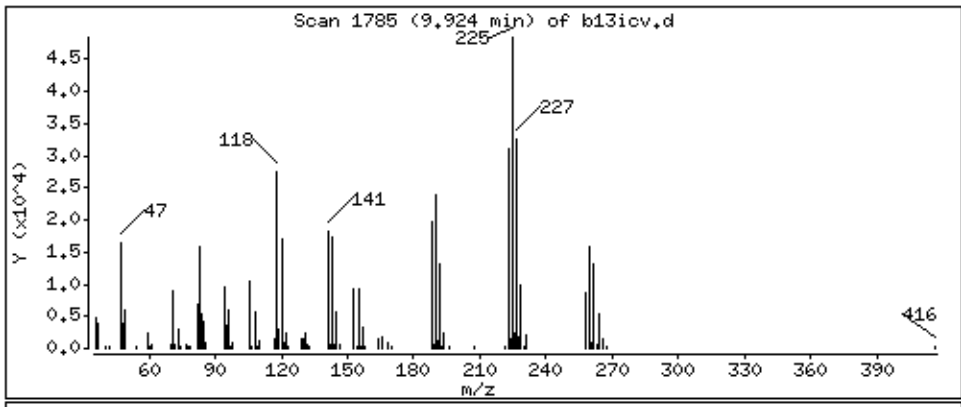
Column phase: DB-624

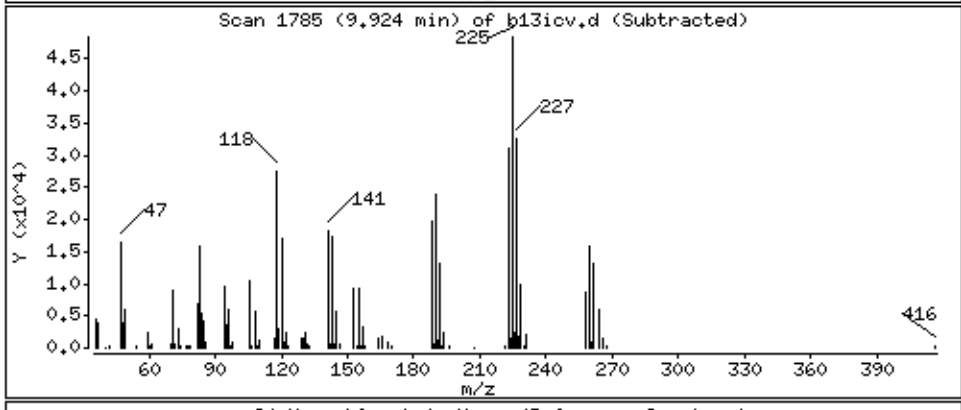
Column diameter: 0.18

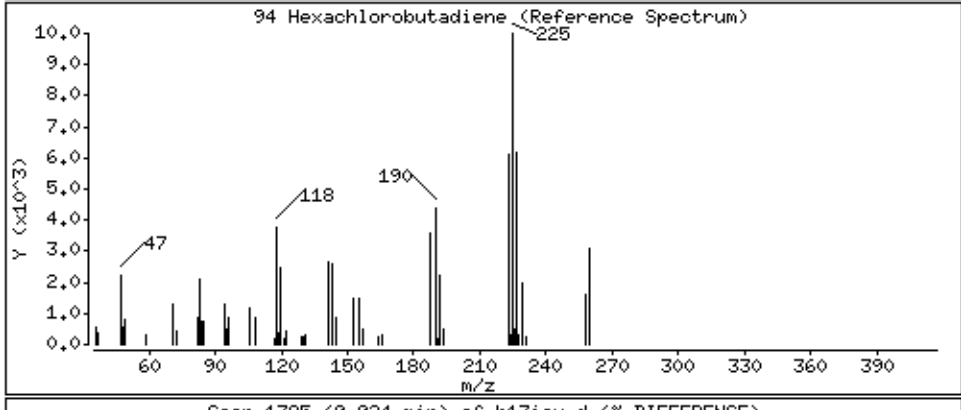
94 Hexachlorobutadiene

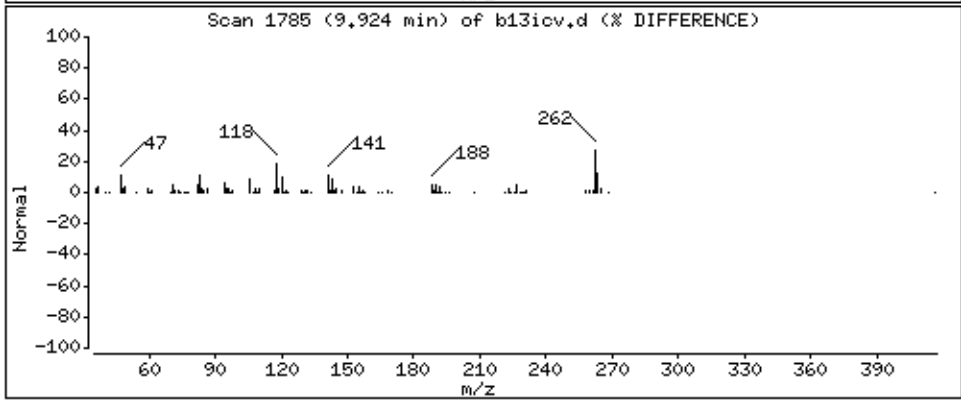
Concentration: 47.4 ppb

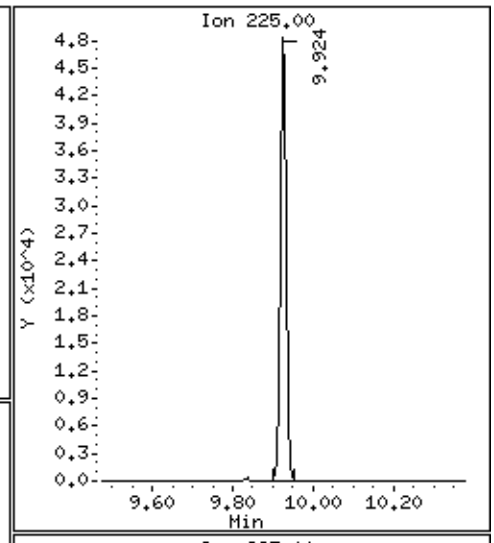
Review Code:

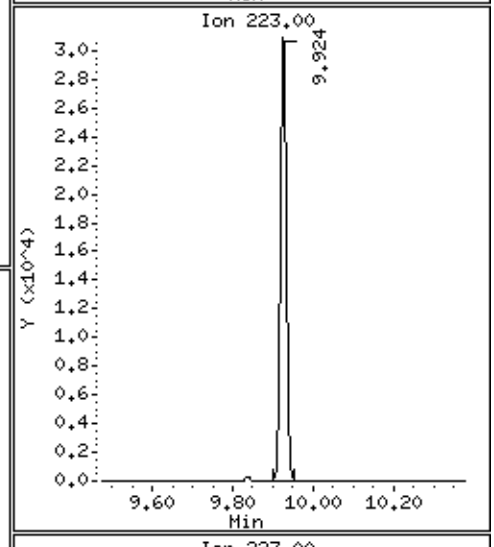


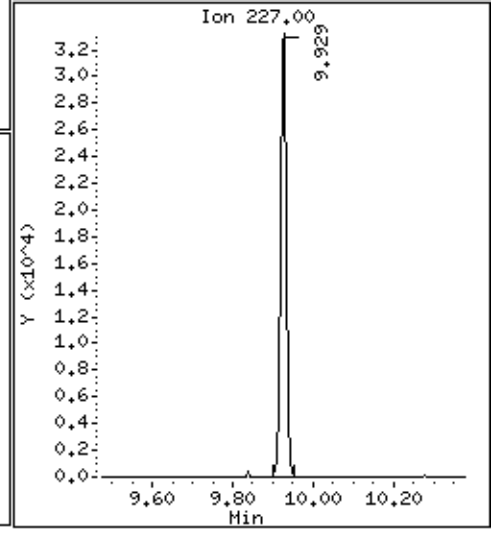












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

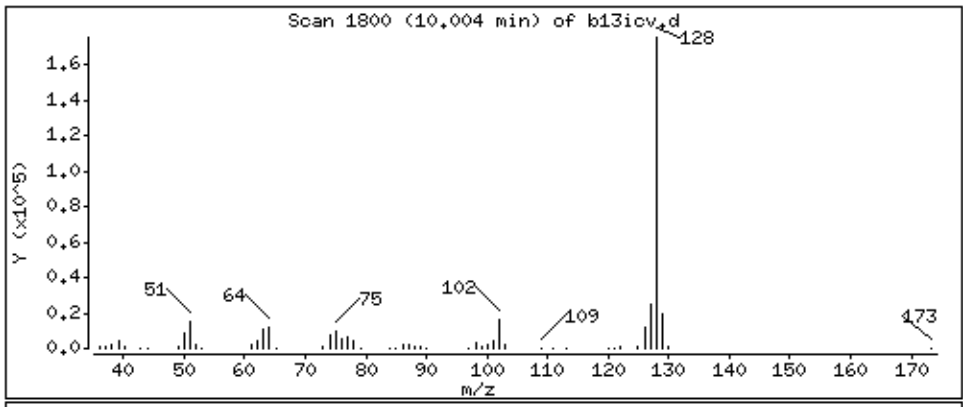
Column phase: DB-624

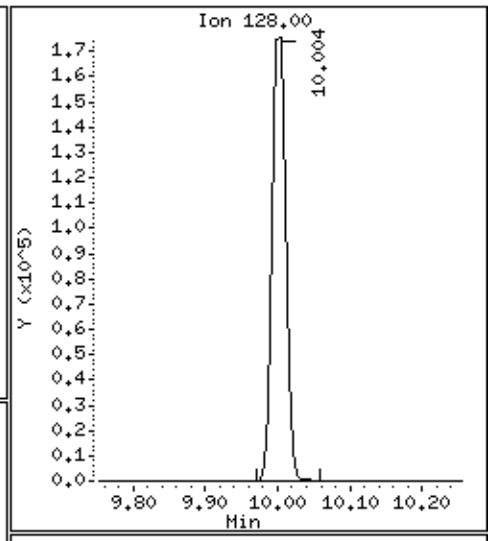
Column diameter: 0.18

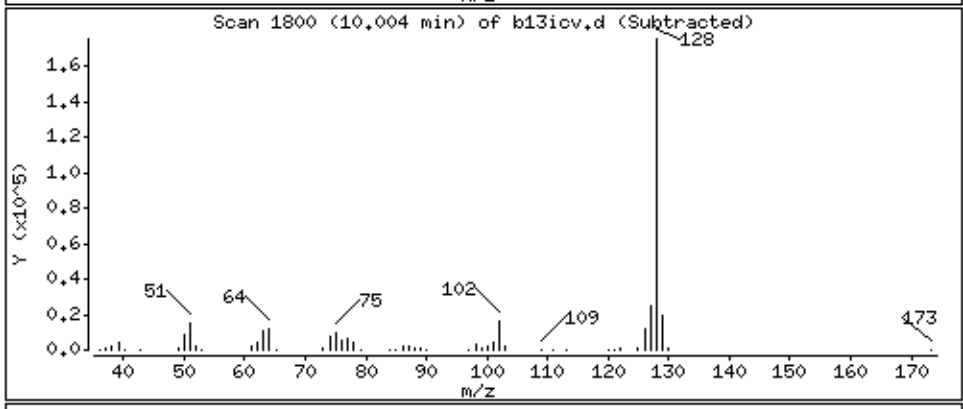
95 Naphthalene

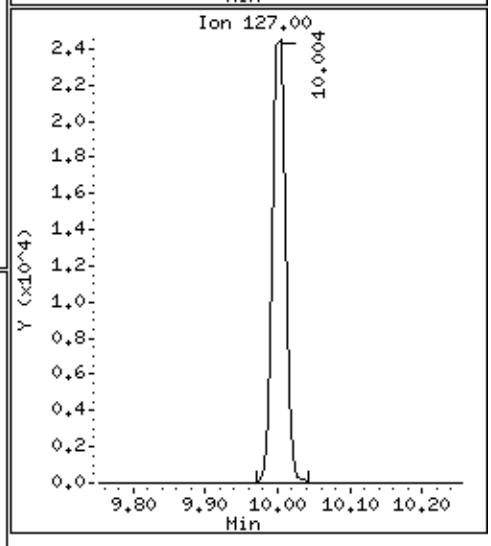
Concentration: 50.1 ppb

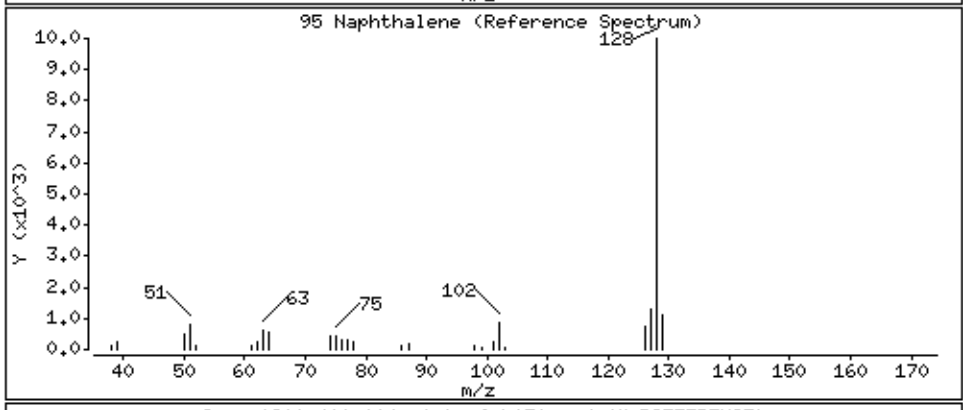
Review Code:

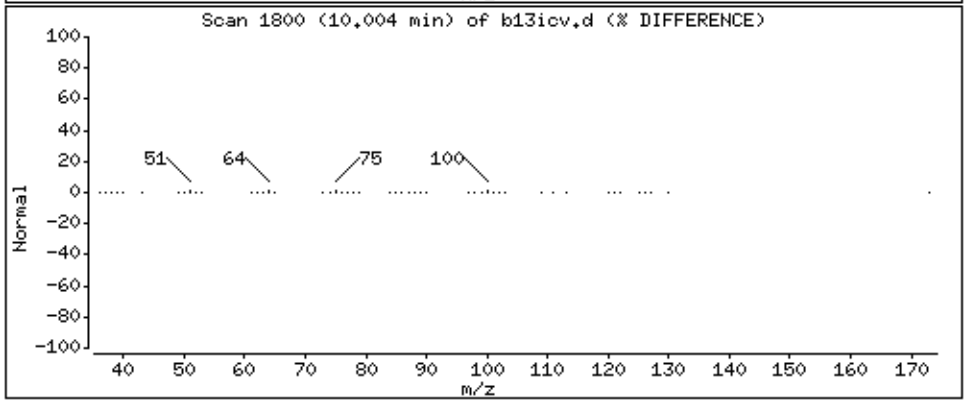












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

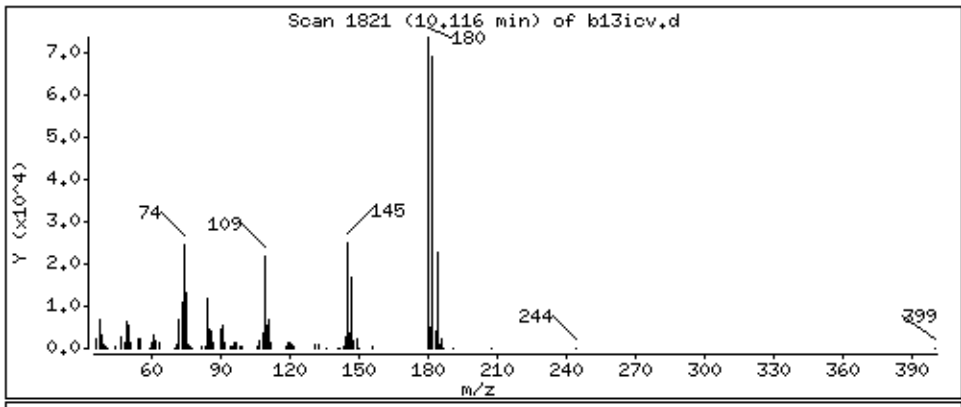
Column phase: DB-624

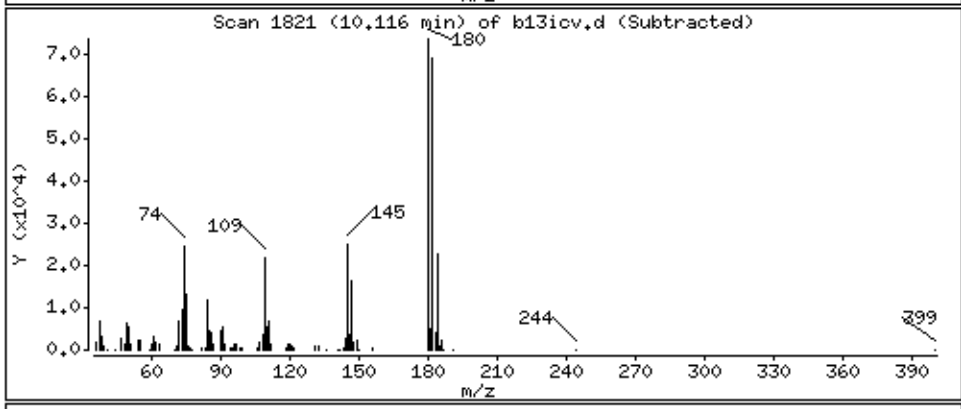
Column diameter: 0.18

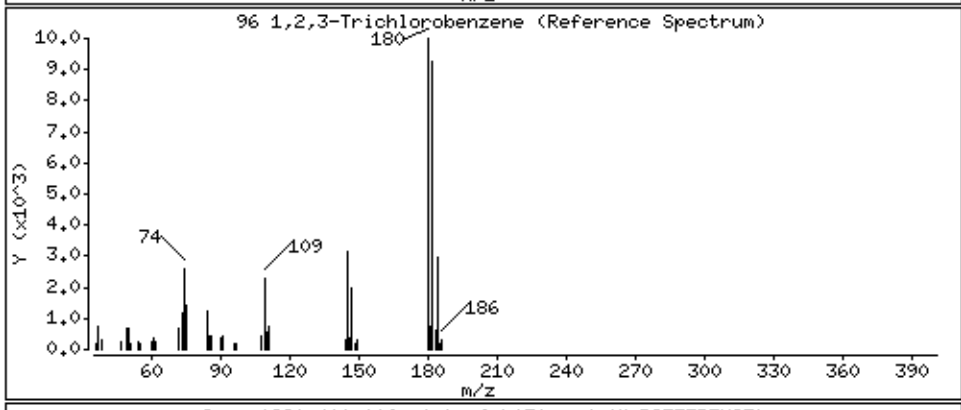
96 1,2,3-Trichlorobenzene

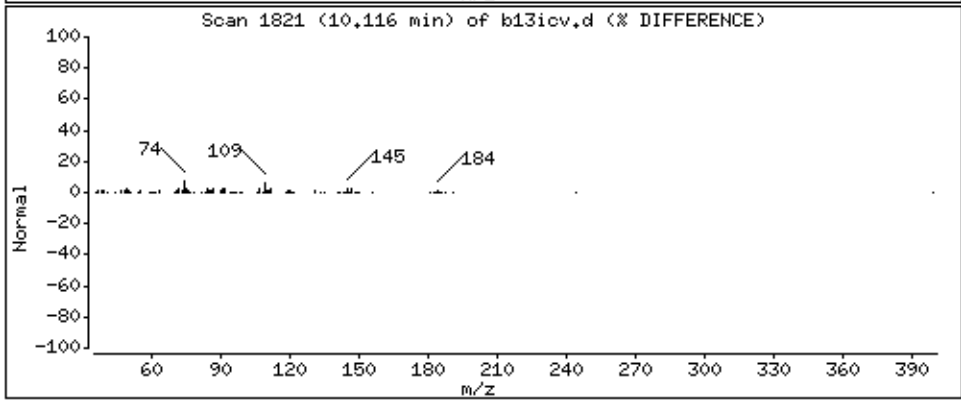
Concentration: 47.9 ppb

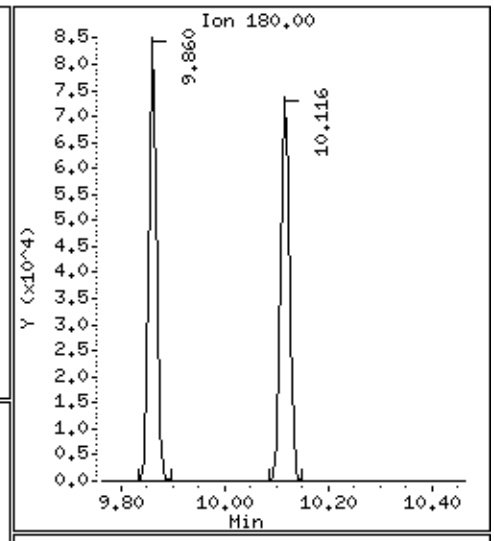
Review Code:

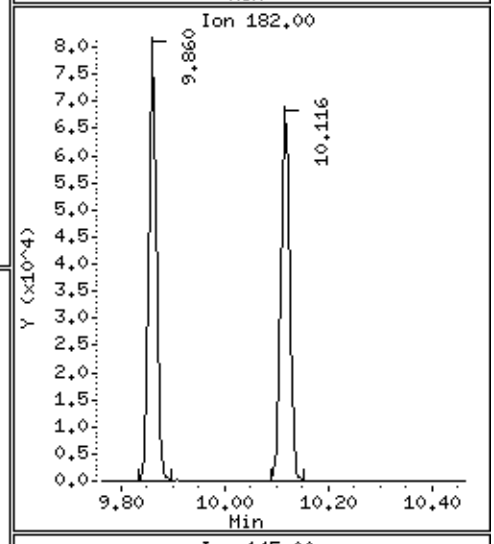


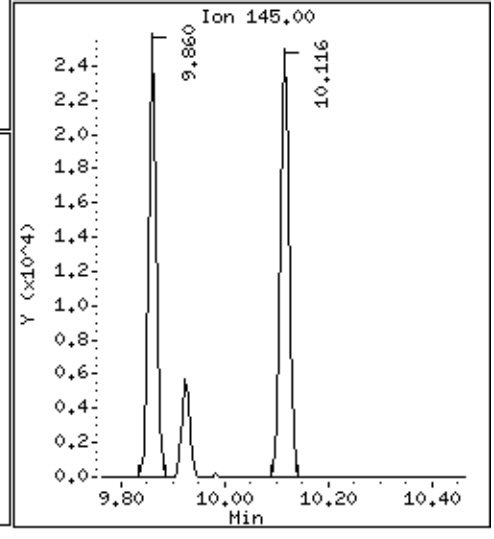












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

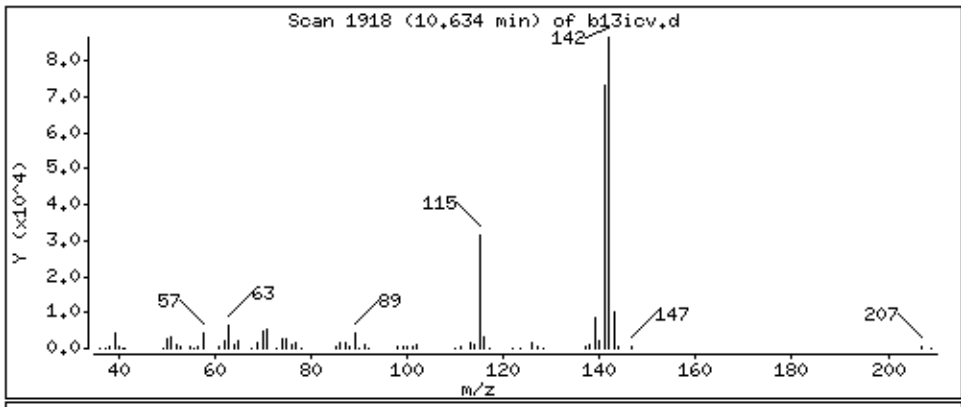
Column phase: DB-624

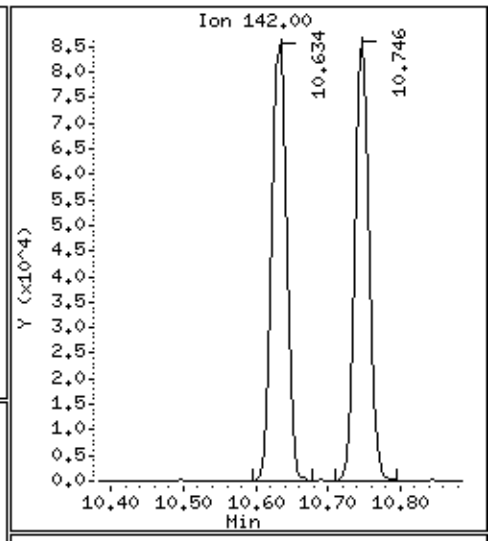
Column diameter: 0.18

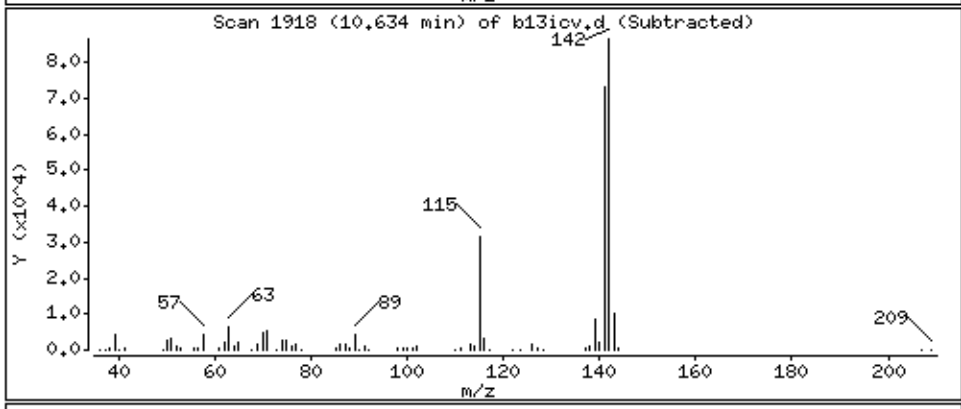
97 2,methyl-naphthalene

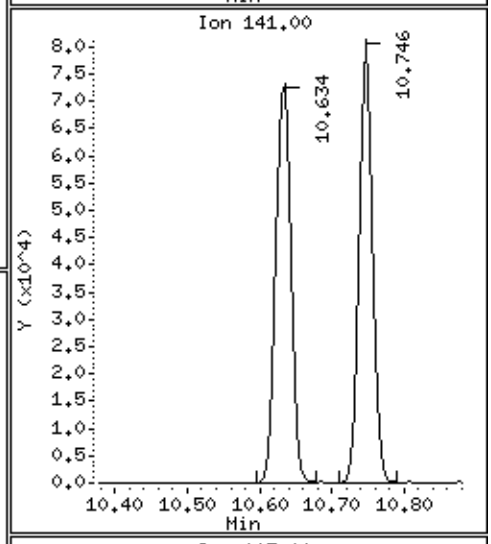
Concentration: 45.2 ppb

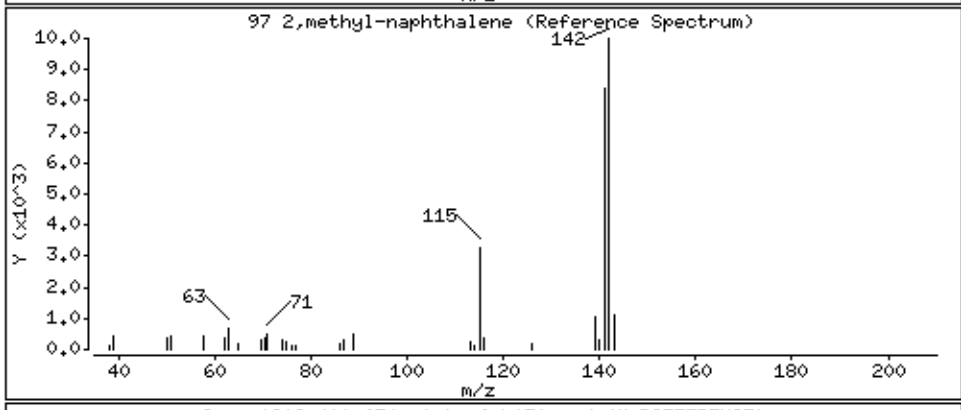
Review Code:

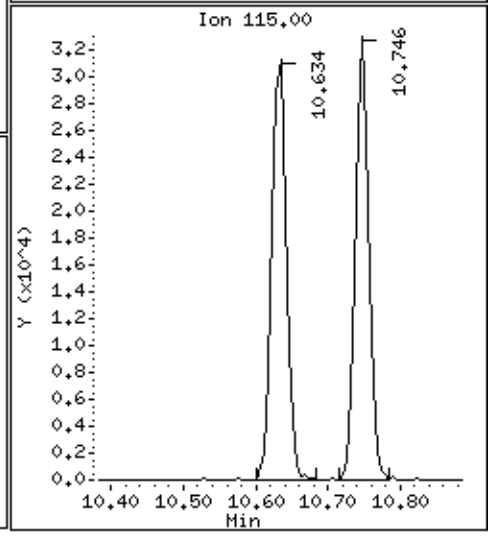


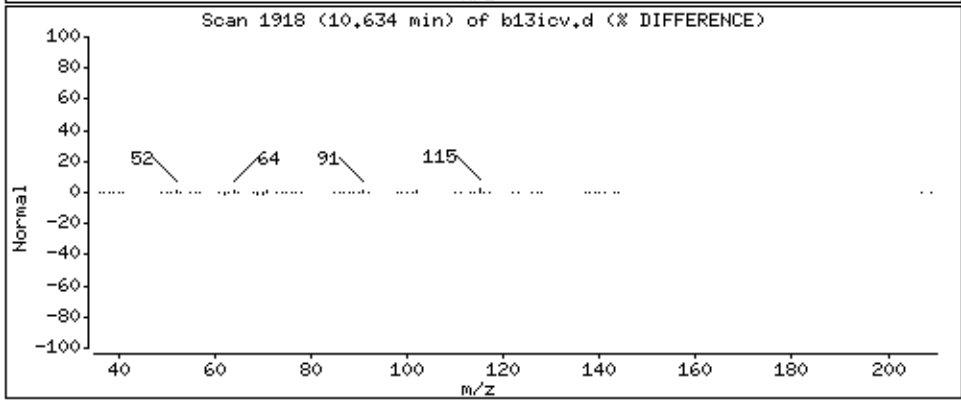












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b13icv.d

Date : 25-MAR-2016 20:42

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-ICV,117894:0

Purge Volume: 5.0

Operator: jlz

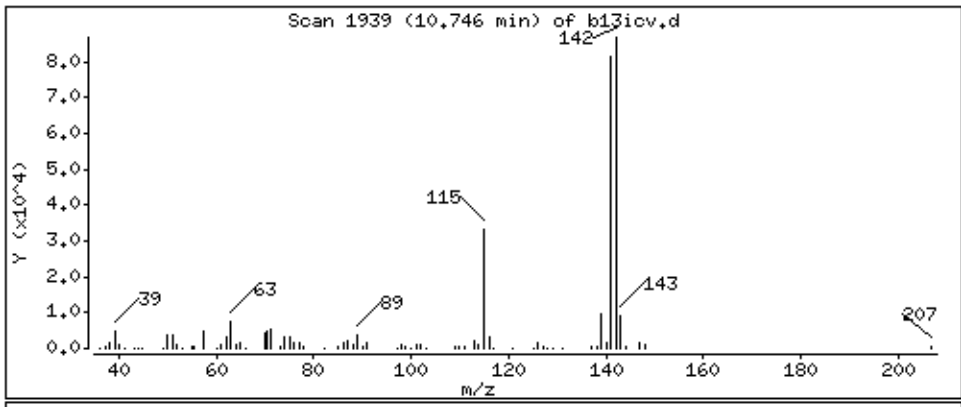
Column phase: DB-624

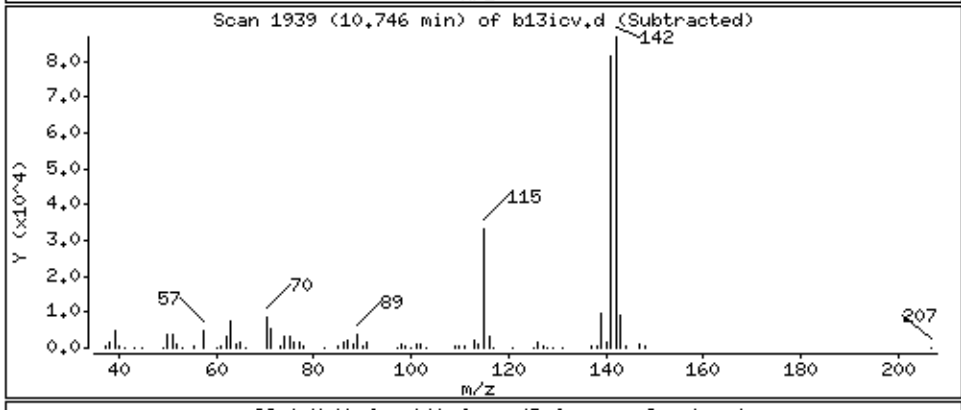
Column diameter: 0.18

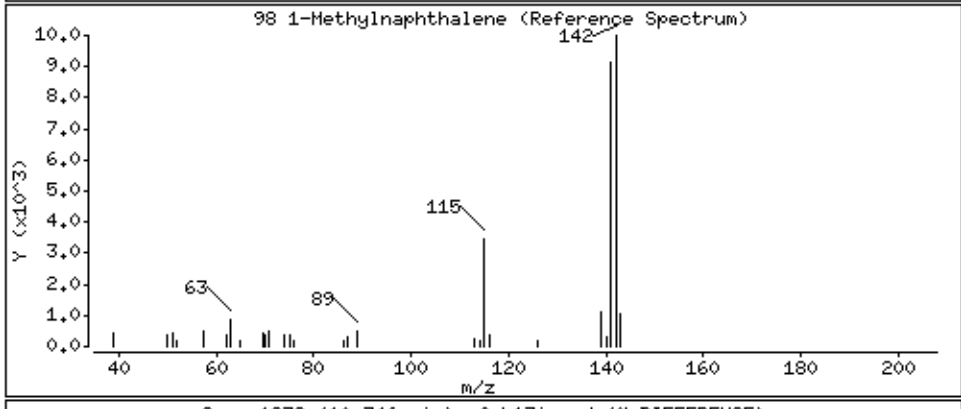
98 1-Methylnaphthalene

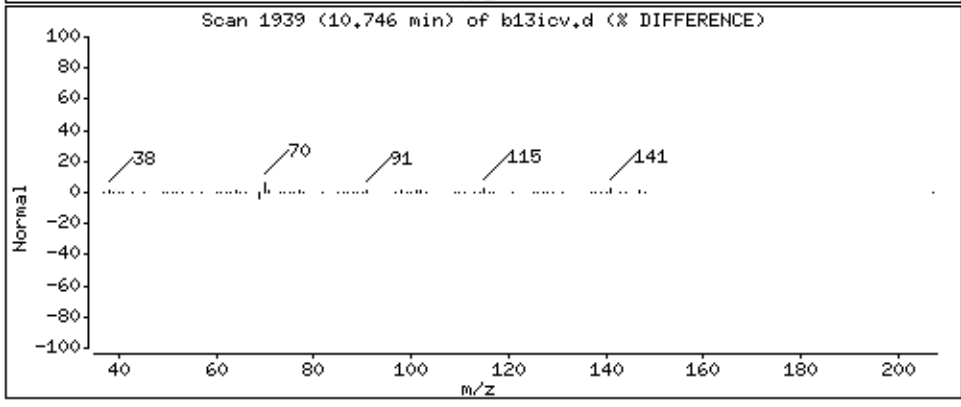
Concentration: 54.2 ppb

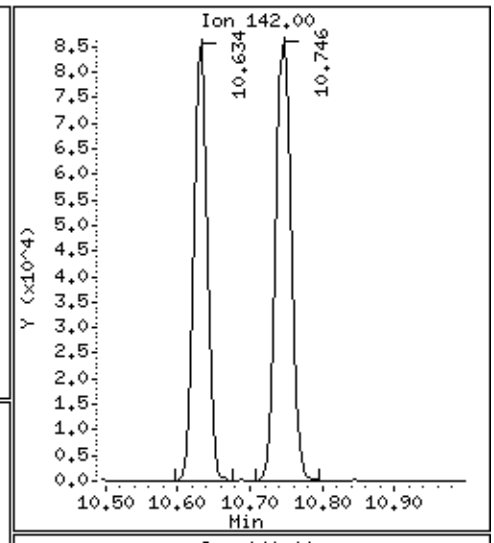
Review Code:

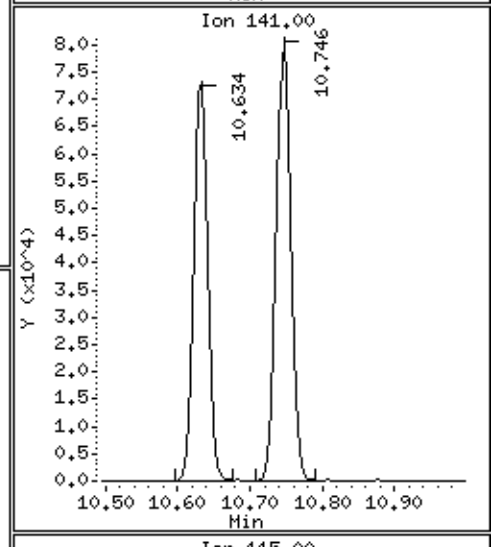


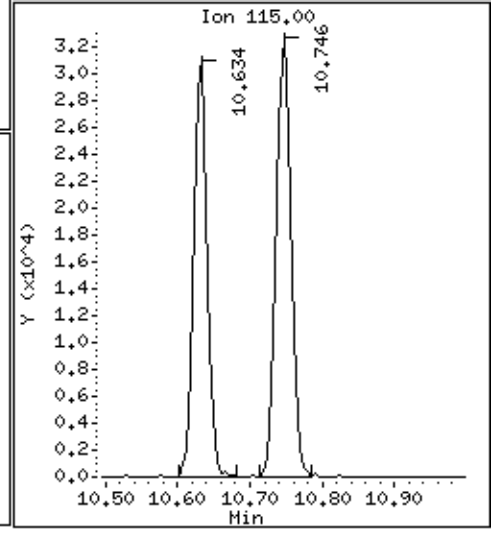












Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b/b13icv.d
Injection Date: 25-MAR-2016 20:42
Instrument: 50mv3b.i
Lab Sample ID: 8260-ICV,117894:0
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw-ccv.d
Lab Smp Id: 8260-CCV,118684:0
Inj Date : 11-APR-2016 23:46
Operator : jlz   Inst ID: 50mv3b.i
Smp Info : 8260-ccv,118684:0
Misc Info : 88308
Comment   :
Method   : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i   Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37   Cal File: b11cal8.d
Als bottle: 52   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	REVIEW C
1	Dichlorodifluoromethane	85	0.916	0.917	(0.219)	141480	50.0000	40.4	
2	Chloromethane	50	0.996	0.997	(0.239)	192000	50.0000	35.6	
3	Vinyl Chloride	62	1.044	1.045	(0.250)	193752	50.0000	41.8	
4	Bromomethane	94	1.188	1.189	(0.285)	85584	50.0000	38.2	
5	Chloroethane	64	1.236	1.237	(0.296)	102071	50.0000	36.5	
6	Trichlorofluoromethane	101	1.348	1.349	(0.323)	251090	50.0000	47.1	
7	Diethyl ether	74	1.471	1.472	(0.353)	70234	50.0000	44.7	
8	1,2-dichlorotrifluoroethane	67	1.492	1.488	(0.358)	167421	50.0000	42.4	
9	Acrolein	56	1.546	1.542	(0.370)	267037	1000.00	714	
10	1,1,2trichlorotrifluoroethane	101	1.599	1.595	(0.383)	160520	50.0000	46.9	
11	1,1-Dichloroethene	96	1.605	1.601	(0.385)	128046	50.0000	44.1	
12	Acetone	43	1.610	1.611	(0.386)	132330	250.000	203	
13	Iodomethane	142	1.690	1.686	(0.405)	287314	100.000	88.9	
14	Carbon Disulfide	76	1.797	1.798	(0.431)	157998	50.0000	45.3	
15	Methyl Acetate	43	1.781	1.782	(0.427)	67677	50.0000	46.2	
16	allyl chloride	41	1.797	1.798	(0.431)	487422	100.000	100	
17	Acetonitrile	39	1.797	1.798	(0.431)	324229	50.0000	47.6	
18	Methylene Chloride	84	1.872	1.873	(0.449)	110600	50.0000	42.9	
19	tert-Butyl Alcohol	59	1.909	1.910	(0.457)	10812	100.000	84.0	
20	Acrylonitrile	53	2.005	2.006	(0.480)	108332	200.000	174	
21	Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	245479	50.0000	47.0	
22	1,2-Dichloroethene (trans)	96	2.043	2.044	(0.489)	120681	50.0000	46.6	
23	n-Hexane	57	2.229	2.231	(0.534)	224697	50.0000	41.7	

			QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW C
	24	Vinyl Acetate	43	2.336	2.338	(0.560)	812648	200.000	194	
	25	1,1-Dichloroethane	63	2.347	2.348	(0.562)	216088	50.0000	45.6	
	26	Chloroprene	53	2.406	2.402	(0.576)	221119	50.0000	51.5	
	27	2-Butanone	43	2.806	2.808	(0.672)	199971	250.000	235	
	28	1,2-Dichloroethene (cis)	96	2.822	2.824	(0.676)	127829	50.0000	49.8	
	29	2,2-Dichloropropane	77	2.828	2.829	(0.678)	141309	50.0000	47.5	
	30	Propionitrile	54	2.870	2.866	(0.688)	9871	50.0000	46.5	
	31	Methacrylonitrile	41	3.009	3.011	(0.721)	225782	50.0000	198	
	32	Bromochloromethane	49	3.057	3.053	(0.733)	95929	50.0000	51.0	
	33	Tetrahydrofuran	42	3.079	3.080	(0.738)	22644	50.0000	42.1	
	34	Chloroform	83	3.164	3.165	(0.758)	198874	50.0000	47.6	
$	35	Dibromofluoromethane (S)	113	3.340	3.342	(0.800)	106010	50.0000	48.7	
	36	1,1,1-Trichloroethane	97	3.340	3.342	(0.800)	183196	50.0000	50.3	
	37	Cyclohexane	56	3.426	3.427	(0.821)	221811	50.0000	46.0	
	151	n-Butyl chloride	56	3.490	3.486	(0.836)	282290	50.0000	48.4	
	38	Carbon Tetrachloride	117	3.527	3.523	(0.845)	158166	50.0000	52.0	
	39	1,1-Dichloropropene	75	3.533	3.534	(0.846)	164269	50.0000	46.0	
	40	Benzene	78	3.773	3.774	(0.904)	463878	50.0000	47.0	
	41	1,2-Dichloroethane	62	3.859	3.860	(0.924)	133313	50.0000	48.7	
	42	Isobutyl alcohol	43	3.885	3.956	(0.931)	943703	50.0000	415	
	43	2,2,4-Trimethylpentane	57	3.949	3.951	(0.946)	562344	50.0000	52.0	
*	44	Fluorobenzene (IS)	96	4.174	4.175	(1.000)	475502	50.0000		
	45	Trichloroethene	95	4.622	4.624	(1.107)	117683	50.0000	49.5	
	46	Methylcyclohexane	55	4.889	4.891	(1.171)	174879	50.0000	49.0	
	47	1,2-Dichloropropane	63	4.927	4.928	(1.180)	106986	50.0000	46.8	
	48	Methyl methacrylate	69	5.044	5.046	(1.209)	49991	50.0000	50.3	
	49	Dibromomethane	93	5.023	5.024	(1.203)	48459	50.0000	45.7	
	50	1,4-Dioxane	88	5.034	5.035	(1.206)	12108	1000.00	877	
	51	Bromodichloromethane	83	5.247	5.248	(1.257)	121186	50.0000	46.8	
	52	2-Chloroethyl vinyl ether	63	5.600	5.601	(0.762)	42877	100.000	52.4	
	53	cis-1,3-Dichloropropene	75	5.744	5.745	(0.782)	127451	50.0000	48.6	
	54	4-Methyl-2-Pentanone	43	5.920	5.921	(0.806)	354125	250.000	266	
$	55	Toluene-d8 (S)	98	6.022	6.023	(0.820)	374020	50.0000	49.3	
	56	Toluene	91	6.096	6.092	(0.830)	435859	50.0000	44.1	
	57	trans-1,3-Dichloropropene	75	6.379	6.381	(0.868)	93582	50.0000	49.6	
	58	Ethyl Methacrylate	69	6.465	6.466	(0.880)	363050	50.0000	227	
	59	1,1,2-Trichloroethane	83	6.566	6.568	(0.894)	51191	50.0000	45.8	
	60	Tetrachloroethene	166	6.620	6.616	(0.901)	103014	50.0000	51.0	
	61	1,3-Dichloropropane	76	6.705	6.707	(0.913)	110689	50.0000	45.5	
	62	2-Hexanone	43	6.775	6.776	(0.922)	225072	250.000	262	
	63	Dibromochloromethane	129	6.892	6.888	(0.938)	70981	50.0000	56.3	
	64	1,2-Dibromoethane	107	6.972	6.974	(0.949)	58340	50.0000	49.2	
*	65	Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	234591	50.0000		
	66	Chlorobenzene	112	7.368	7.369	(1.003)	223196	50.0000	46.2	
	67	1,1,1,2-Tetrachloroethane	131	7.442	7.444	(1.013)	77414	50.0000	54.1	
	68	Ethylbenzene	106	7.448	7.449	(1.014)	134364	50.0000	47.7	
	69	m&p-Xylene	106	7.549	7.550	(1.028)	326944	100.000	95.9	
	70	o-Xylene	106	7.806	7.807	(1.063)	147940	50.0000	47.9	
	71	Styrene	104	7.827	7.823	(1.065)	240324	50.0000	46.5	
	72	Bromoform	173	7.944	7.946	(0.899)	30135	50.0000	54.8(M)	NI
	73	Isopropylbenzene	105	8.051	8.053	(1.096)	400099	50.0000	48.5	
$	74	4-Bromofluorobenzene (S)	95	8.163	8.165	(1.111)	92405	50.0000	44.8	
	75	Bromobenzene	77	8.244	8.245	(1.122)	123191	50.0000	40.1	
	76	1,1,2,2-Tetrachloroethane	83	8.254	8.256	(0.934)	56158	50.0000	42.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	REVIEW C
77	trans-1,4-Dichloro-2-butene	53	8.276	8.277	(1.126)	65477	50.0000	182	
78	1,2,3-Trichloropropane	110	8.286	8.282	(0.937)	18125	50.0000	49.6	
79	n-Propylbenzene	91	8.313	8.309	(0.940)	456143	50.0000	48.7	
80	2-Chlorotoluene	91	8.361	8.362	(0.946)	234671	50.0000	45.7	
81	1,3,5-Trimethylbenzene	105	8.420	8.421	(0.952)	283320	50.0000	47.8	
82	4-Chlorotoluene	126	8.436	8.437	(0.954)	79006	50.0000	45.4	
83	tert-Butylbenzene	119	8.601	8.603	(0.973)	270939	50.0000	41.4	
84	1,2,4-Trimethylbenzene	105	8.633	8.635	(0.976)	274549	50.0000	45.4	
85	sec-Butylbenzene	105	8.730	8.726	(0.987)	392023	50.0000	50.0	
86	1,3-Dichlorobenzene	146	8.794	8.795	(0.995)	138235	50.0000	45.9	
87	p-Isopropyltoluene	119	8.815	8.811	(0.997)	302164	50.0000	46.4	
* 88	1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	89685	50.0000		
89	1,4-Dichlorobenzene	146	8.852	8.854	(1.001)	135060	50.0000	45.3	
90	n-Butylbenzene	91	9.034	9.030	(1.022)	266510	50.0000	41.0	
91	1,2-Dichlorobenzene	146	9.045	9.046	(1.023)	120128	50.0000	44.1	
92	1,2-Dibromo-3-chloropropane	155	9.451	9.452	(1.069)	5650	50.0000	48.9	
93	1,2,4-Trichlorobenzene	180	9.862	9.863	(1.115)	63018	50.0000	40.1	
94	Hexachlorobutadiene	225	9.926	9.927	(1.123)	40439	50.0000	43.6	
95	Naphthalene	128	10.001	10.002	(1.131)	144331	50.0000	42.0	
96	1,2,3-Trichlorobenzene	180	10.113	10.114	(1.144)	59575	50.0000	41.0	
97	2,methyl-naphthalene	142	10.631	10.632	(1.202)	73769	50.0000	36.1	
98	1-Methylnaphthalene	142	10.748	10.744	(1.216)	80466	50.0000	44.9	

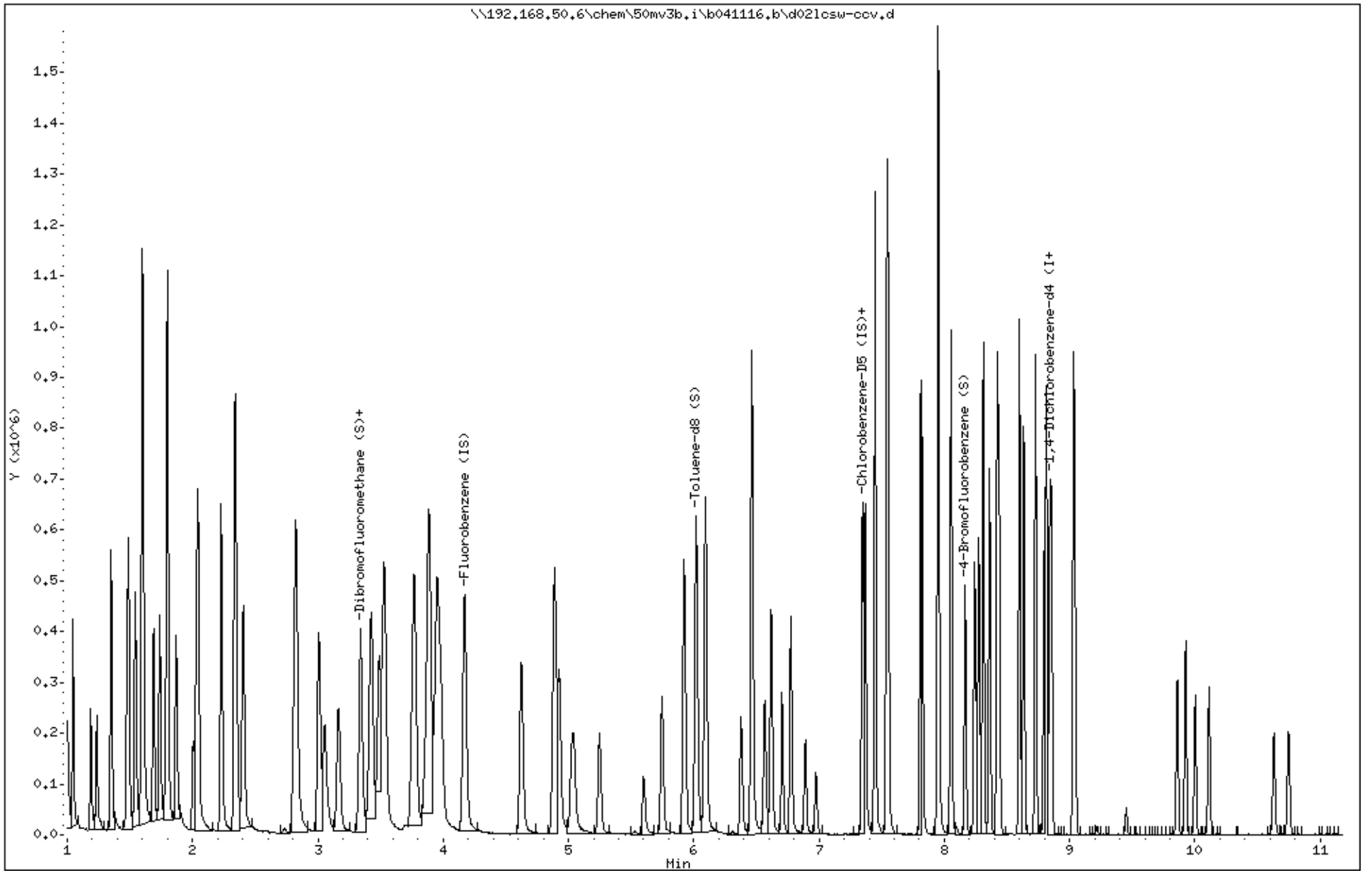
QC Flag Legend

M - Compound response manually integrated.

Review Codes Legend

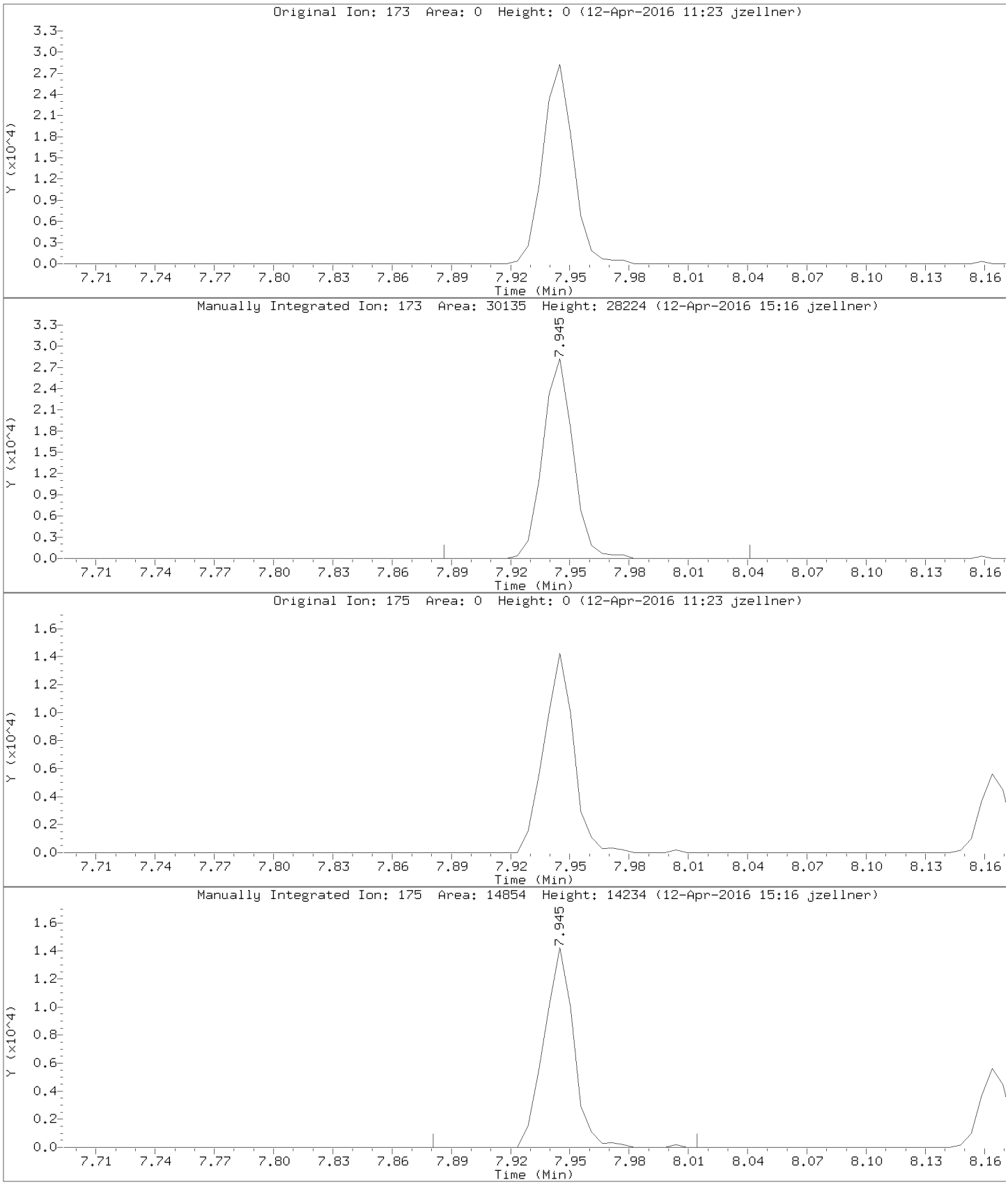
:
NI: Indicates that the peak was not integrated at all by the computer software.

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw-ccv.d
Date : 11-APR-2016 23:46
Client ID:
Instrument: 50mv3b.i
Sample Info: 8260-CCV,118684:0
Purge Volume: 5.0
Operator: jlz
Column phase: DB-624
Column diameter: 0.18

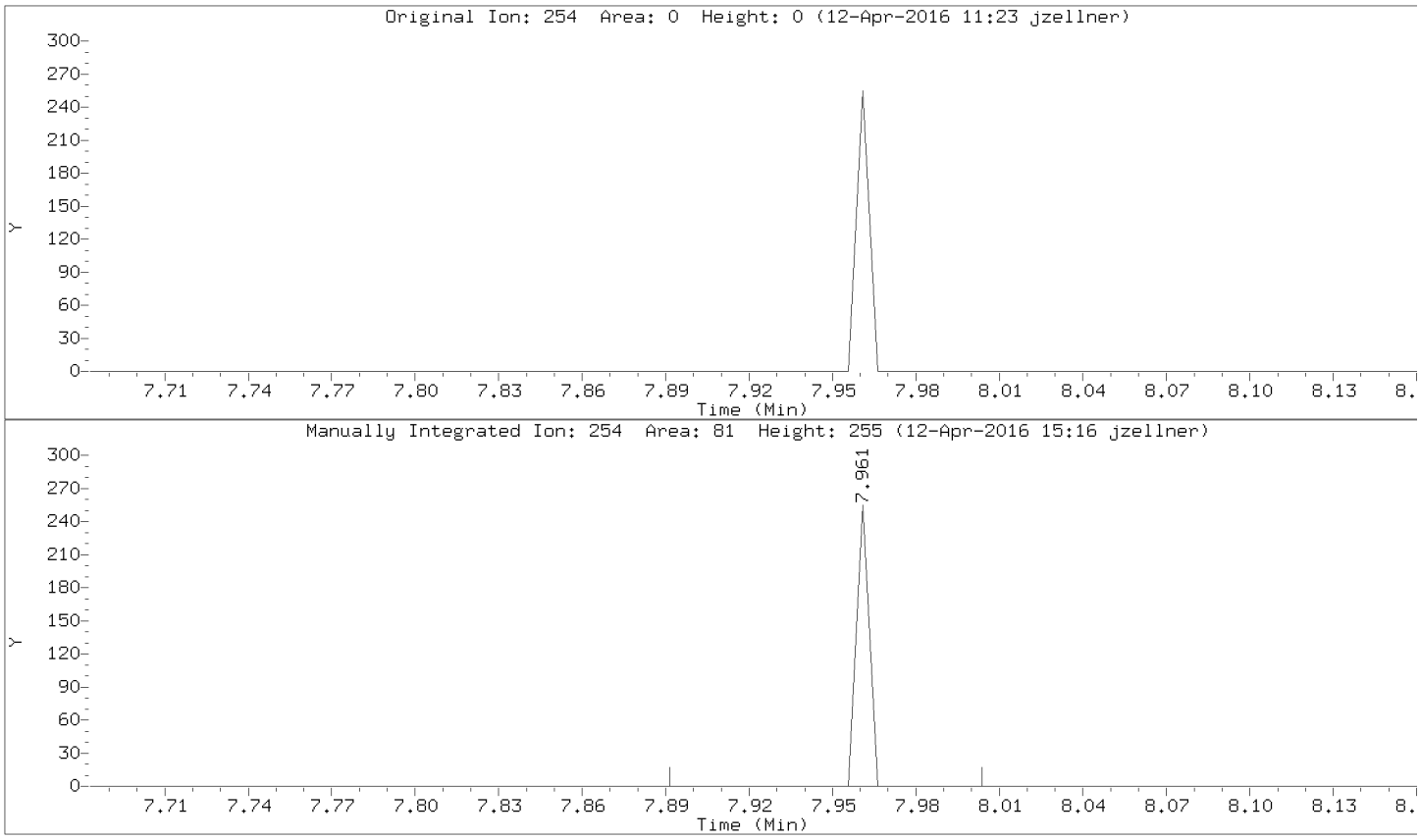


Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d02lcsw-ccv.d
Injection Date: 11-APR-2016 23:46
Instrument: 50mv3b.i
Lab Sample ID: 8260-CCV,118684:0

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d02lcsw-ccv.d
Injection Date: 11-APR-2016 23:46
Instrument: 50mv3b.i
Lab Sample ID: 8260-CCV,118684:0



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a00bfb.d

Date : 25-MAR-2016 13:15

Client ID:

Instrument: 50mv3a.i

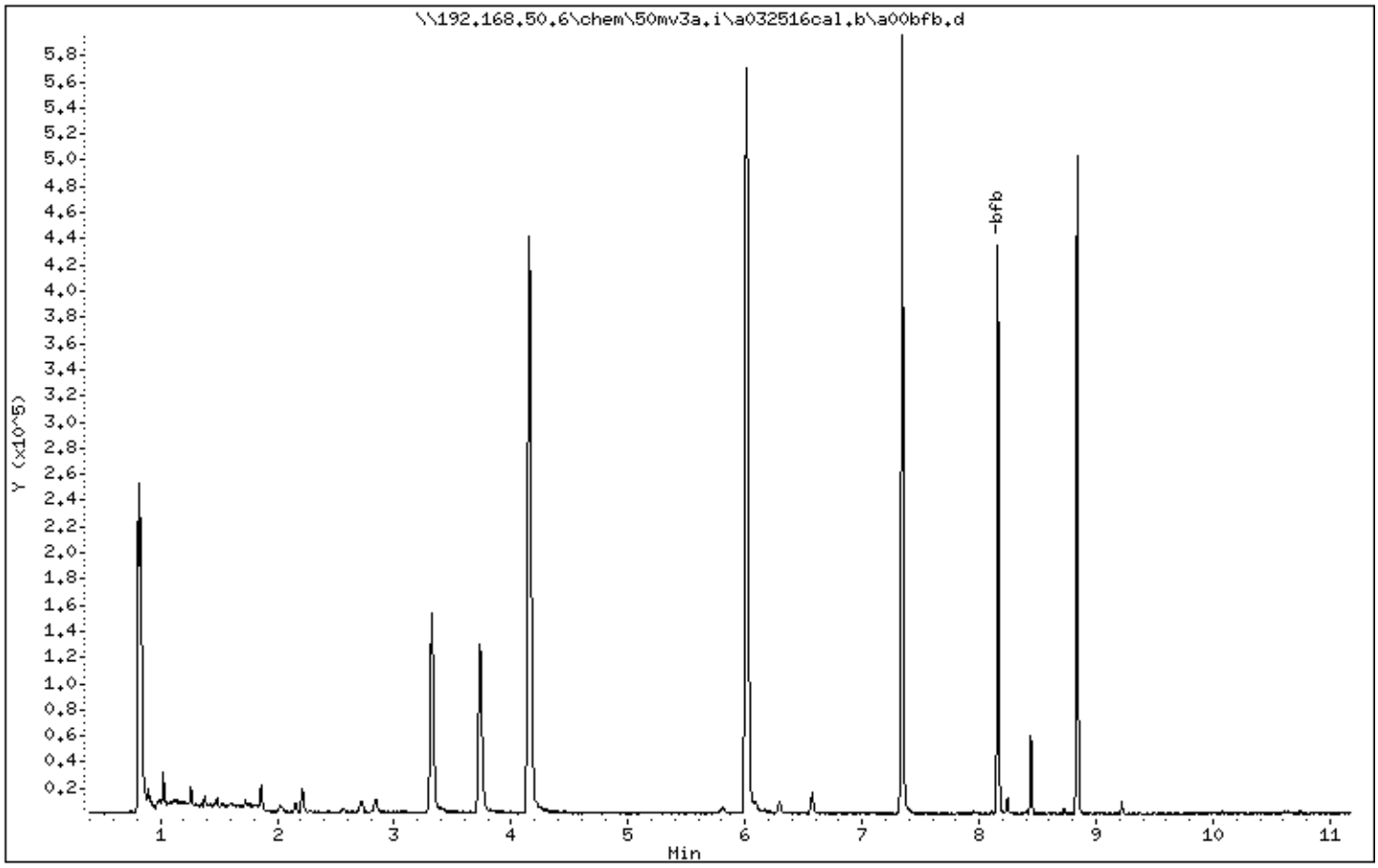
Sample Info: 8260-TUNE,117885:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3a.i\a032516cal.b\a00bfb.d

Date : 25-MAR-2016 13:15

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,117885:0

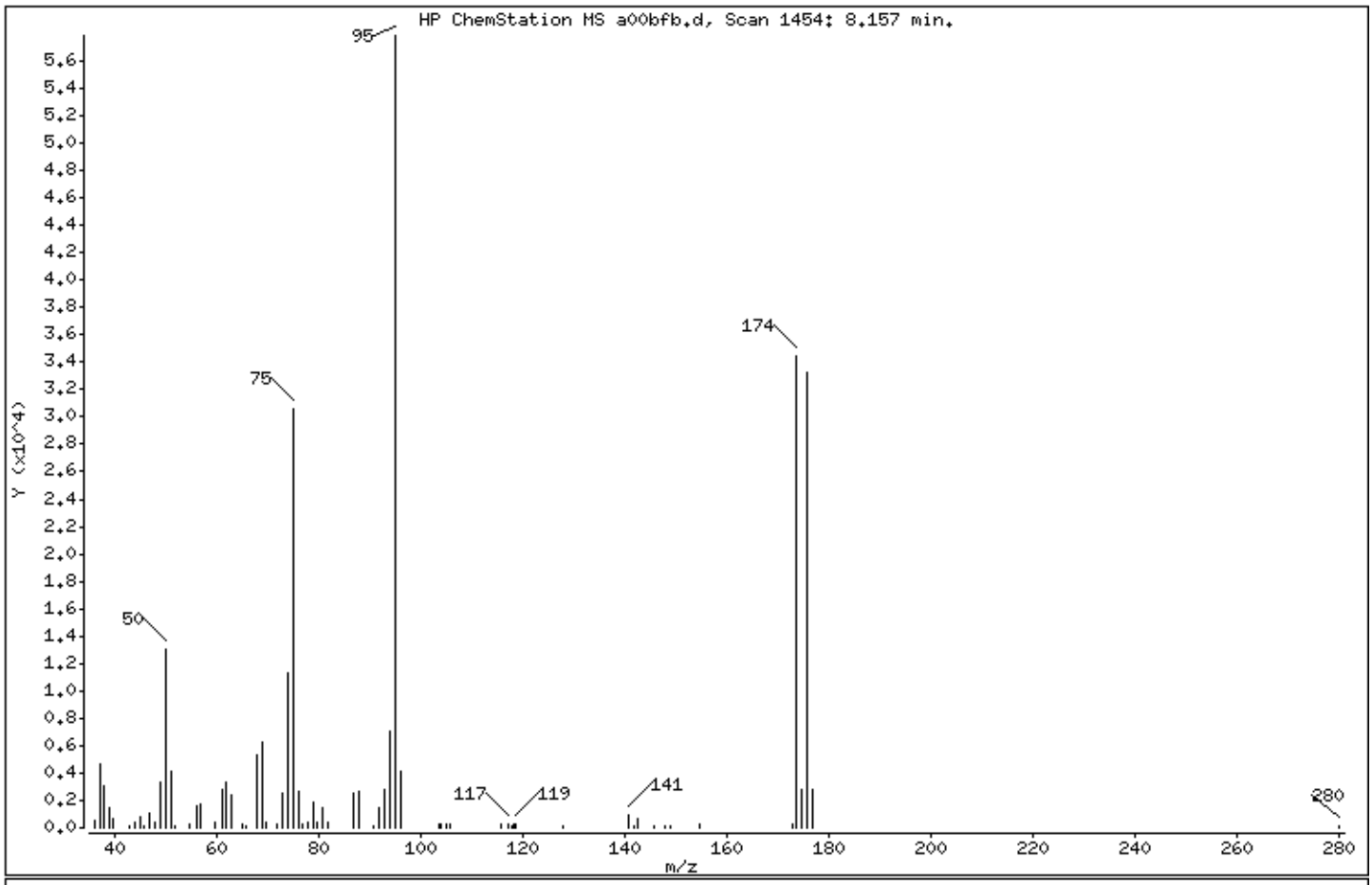
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.45
75	30.00 - 60.00% of mass 95	52.93
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.36 (0.60)
174	50.00 - 100.00% of mass 95	59.60
175	5.00 - 9.00% of mass 174	4.74 (7.95)
176	95.00 - 101.00% of mass 174	57.37 (96.26)
177	5.00 - 9.00% of mass 176	4.88 (8.50)

Date : 25-MAR-2016 13:15

Client ID: Instrument: 50mv3a.i

Sample Info: 8260-TUNE,117885:0

Volume Injected (uL): 1.0 Operator: jlz

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: HP ChemStation MS a00bfb.d, Scan 1454: 8.157 min.
Location of Maximum: 95.05
Number of points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.15	576	59.95	448	80.95	1427	118.75	219
37.15	4604	61.05	2840	81.95	440	127.85	178
38.05	3049	62.05	3376	87.05	2589	140.95	882
39.15	1497	63.05	2392	87.95	2645	142.05	189
39.95	699	65.15	278	90.95	173	142.75	605
43.05	151	65.95	184	92.05	1465	145.75	189
43.95	448	68.05	5314	92.95	2782	147.85	181
45.15	778	69.05	6184	93.95	7061	149.05	163
45.85	161	69.95	362	95.05	57840	154.85	245
47.05	1122	72.05	212	96.05	4105	172.85	206
47.85	402	73.05	2549	103.75	206	173.85	34472
49.05	3347	74.05	11258	104.05	205	174.95	2740
50.05	12985	75.05	30616	105.15	211	175.95	33184
51.05	4133	76.05	2674	105.95	323	176.85	2820
51.95	183	77.05	211	116.05	222	280.25	160
54.95	288	77.95	432	117.15	330		
56.05	1580	78.95	1911	118.15	172		
56.95	1786	79.95	404	118.55	209		

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a00bfb.d

Date : 11-APR-2016 10:06

Client ID:

Instrument: 50mv3a.i

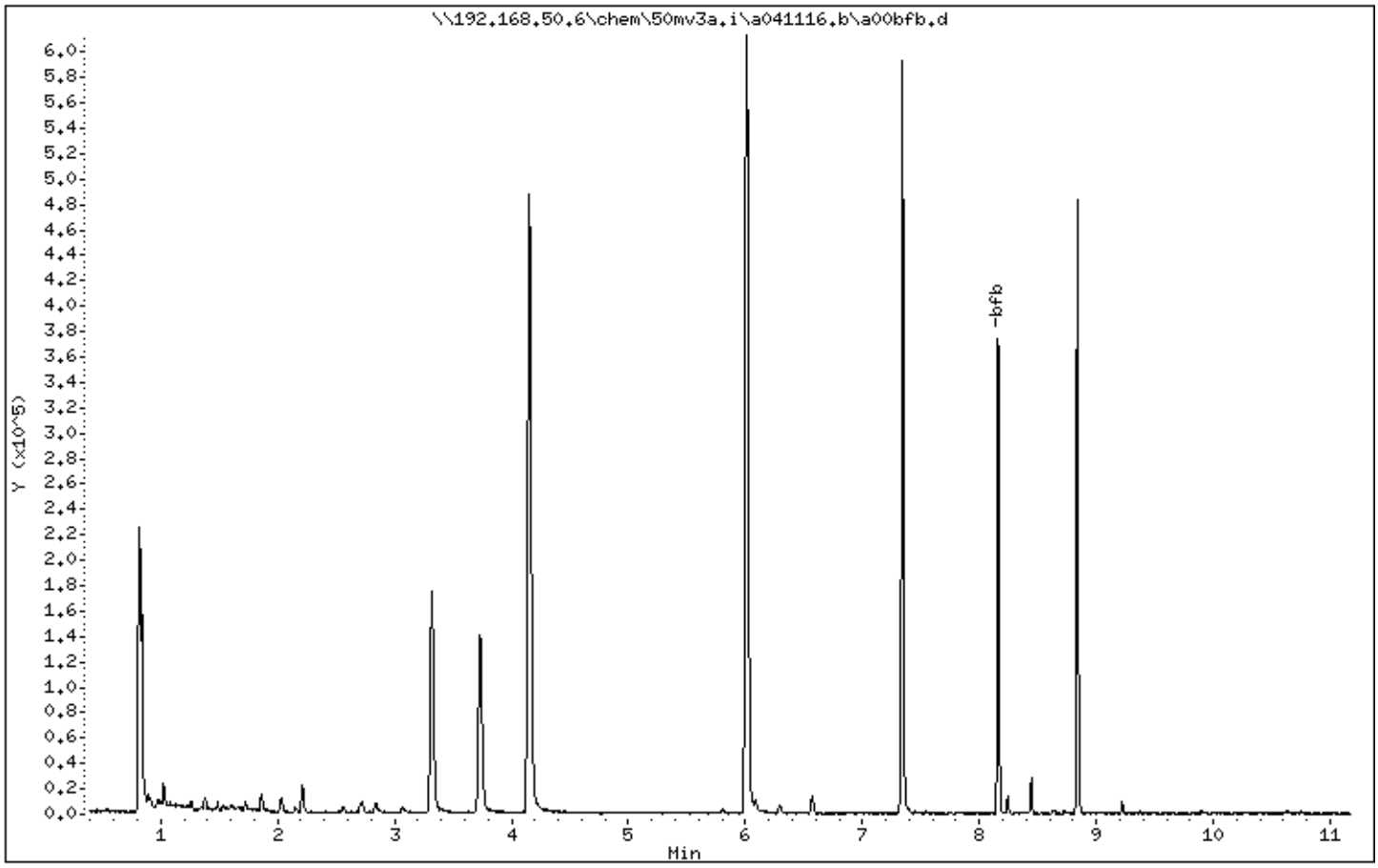
Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a00bfb.d

Date : 11-APR-2016 10:06

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

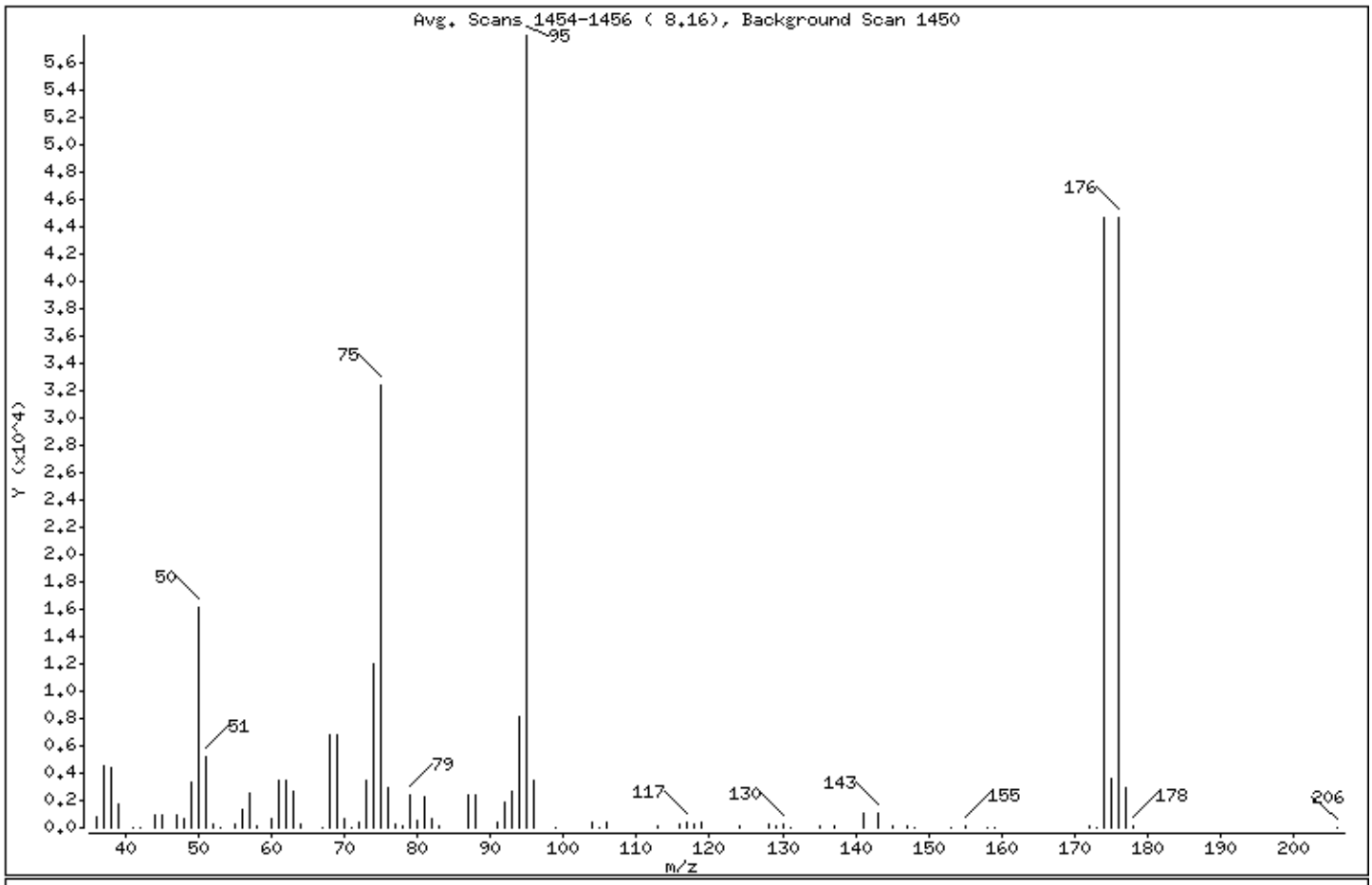
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.73
75	30.00 - 60.00% of mass 95	55.78
96	5.00 - 9.00% of mass 95	5.97
173	Less than 2.00% of mass 174	0.10 (0.13)
174	50.00 - 100.00% of mass 95	76.97
175	5.00 - 9.00% of mass 174	6.26 (8.14)
176	95.00 - 101.00% of mass 174	77.13 (100.20)
177	5.00 - 9.00% of mass 176	5.02 (6.51)

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a00bfb.d

Date : 11-APR-2016 10:06

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1454-1456 (8,16), Background Scan 1450
Location of Maximum: 95.00
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	779	62.00	3464	88.00	2354	135.00	96
37.00	4584	63.00	2614	91.00	352	137.00	143
38.00	4401	64.00	220	92.00	1904	141.00	1054
39.00	1704	67.00	56	93.00	2720	143.00	1066
41.00	63	68.00	6836	94.00	8184	145.00	168
42.00	55	69.00	6799	95.00	57952	147.00	71
44.00	932	70.00	716	96.00	3457	148.00	52
45.00	897	71.00	50	99.00	55	153.00	63
47.00	906	72.00	422	104.00	376	155.00	153
48.00	650	73.00	3523	105.00	51	158.00	58
49.00	3360	74.00	12032	106.00	339	159.00	54
50.00	16068	75.00	32328	113.00	73	172.00	72
51.00	5226	76.00	2885	116.00	227	173.00	59
52.00	216	77.00	327	117.00	435	174.00	44608
53.00	57	78.00	198	118.00	321	175.00	3630
55.00	326	79.00	2404	119.00	335	176.00	44696
56.00	1346	80.00	551	124.00	68	177.00	2909
57.00	2481	81.00	2243	128.00	210	178.00	74
58.00	82	82.00	604	129.00	120	206.00	64
60.00	639	83.00	80	130.00	285		
61.00	3456	87.00	2374	131.00	63		

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c00bfb.d

Date : 11-APR-2016 22:26

Client ID:

Instrument: 50mv3a.i

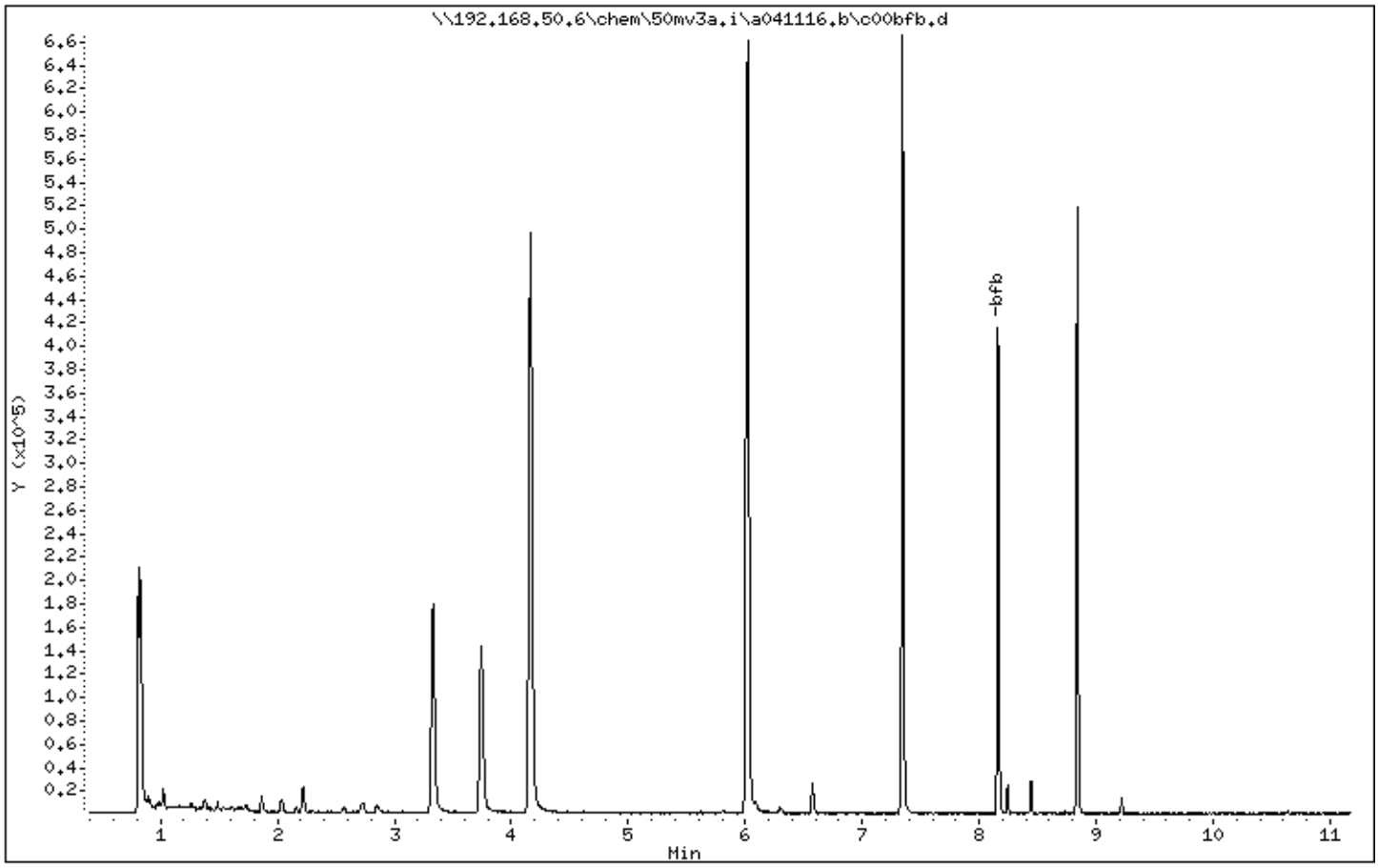
Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c00bfb.d

Date : 11-APR-2016 22:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

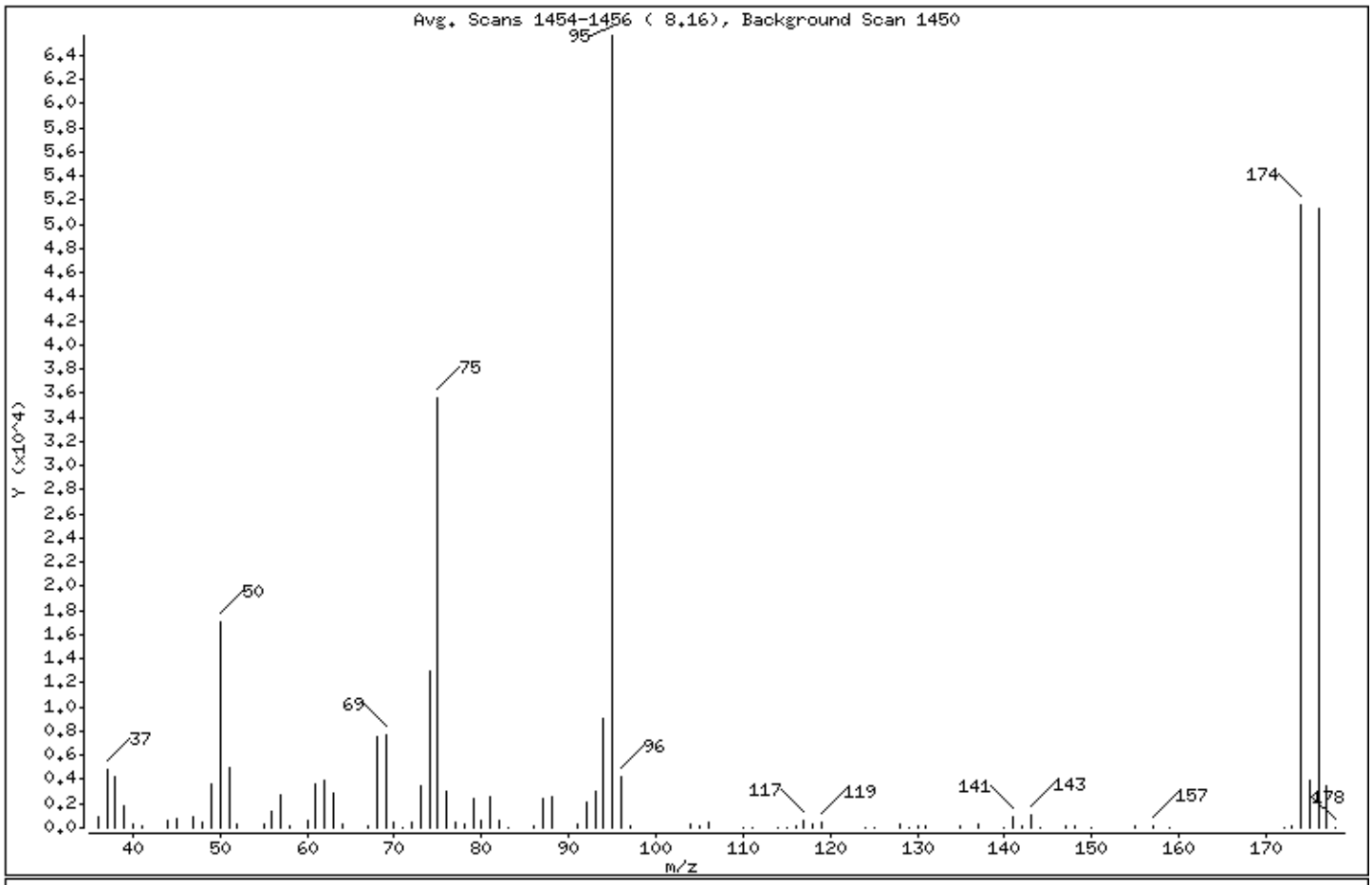
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.93
75	30.00 - 60.00% of mass 95	54.17
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.26 (0.33)
174	50.00 - 100.00% of mass 95	78.60
175	5.00 - 9.00% of mass 174	5.94 (7.56)
176	95.00 - 101.00% of mass 174	78.24 (99.53)
177	5.00 - 9.00% of mass 176	5.32 (6.80)

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c00bfb.d

Date : 11-APR-2016 22:26

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

Data File: c00bfb.d
Spectrum: Avg. Scans 1454-1456 (8.16), Background Scan 1450
Location of Maximum: 95.00
Number of points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	882	64.00	229	92.00	2140	131.00	140
37.00	4812	67.00	80	93.00	2977	135.00	103
38.00	4199	68.00	7556	94.00	9125	137.00	246
39.00	1866	69.00	7657	95.00	65648	140.00	60
40.00	241	70.00	465	96.00	4256	141.00	882
41.00	153	71.00	55	97.00	138	142.00	131
44.00	599	72.00	511	104.00	377	143.00	985
45.00	710	73.00	3450	105.00	88	144.00	50
47.00	948	74.00	13045	106.00	413	147.00	80
48.00	490	75.00	35560	110.00	58	148.00	171
49.00	3607	76.00	3015	111.00	50	150.00	74
50.00	17024	77.00	453	114.00	52	155.00	162
51.00	4936	78.00	309	115.00	50	157.00	170
52.00	354	79.00	2446	116.00	214	159.00	54
55.00	240	80.00	644	117.00	599	172.00	65
56.00	1330	81.00	2541	118.00	305	173.00	172
57.00	2648	82.00	535	119.00	420	174.00	51600
58.00	82	83.00	69	124.00	52	175.00	3901
60.00	675	86.00	122	125.00	54	176.00	51360
61.00	3690	87.00	2408	128.00	282	177.00	3492
62.00	3877	88.00	2583	129.00	72	178.00	61
63.00	2931	91.00	270	130.00	194		

Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g01ccv-bfb.d

Date : 13-APR-2016 00:12

Client ID:

Instrument: 50mv3a.i

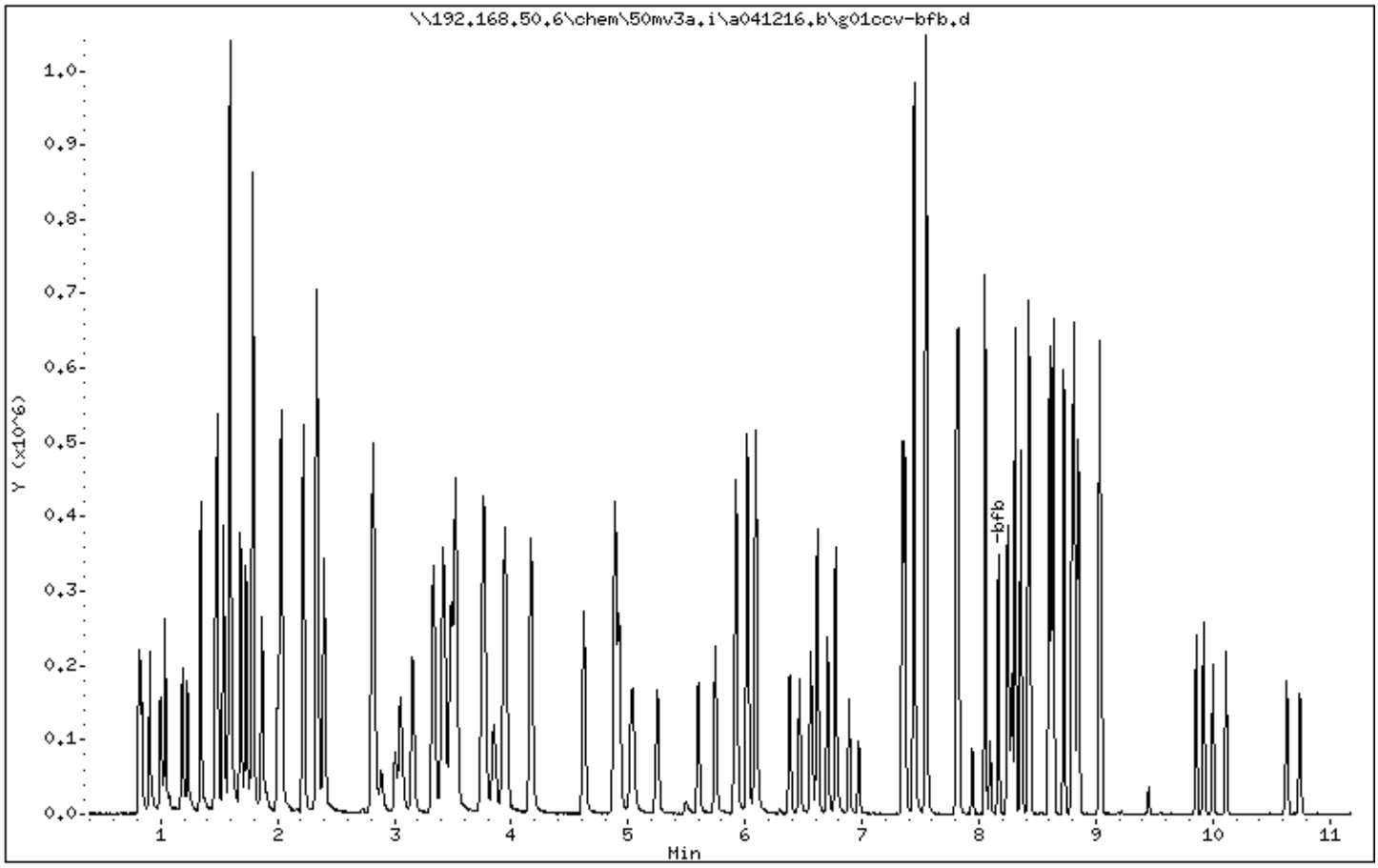
Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3a.i\a041216.b\g01ccv-bfb.d

Date : 13-APR-2016 00:12

Client ID:

Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

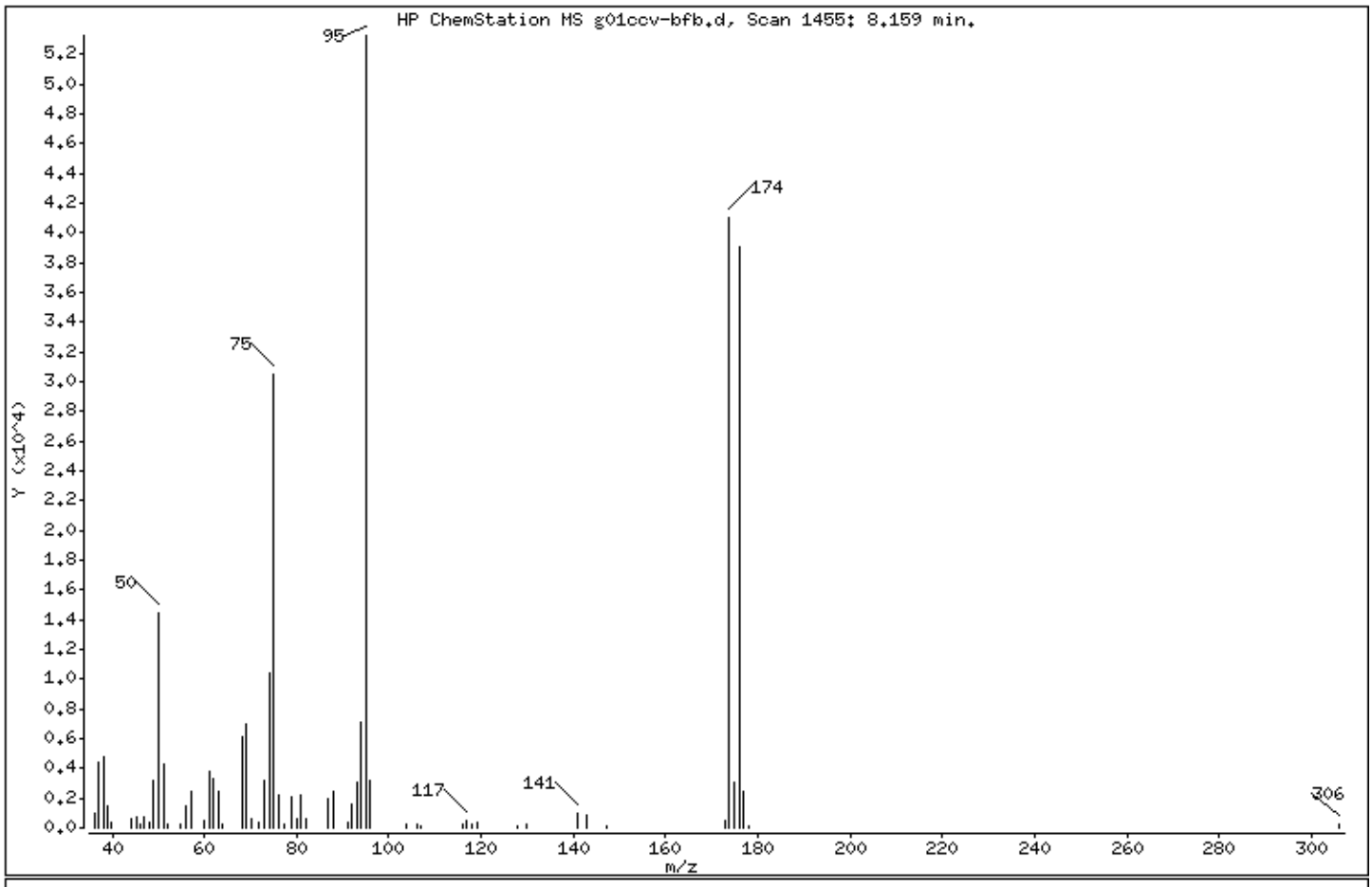
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.14
75	30.00 - 60.00% of mass 95	57.24
96	5.00 - 9.00% of mass 95	5.94
173	Less than 2.00% of mass 174	0.89 (1.15)
174	50.00 - 100.00% of mass 95	77.07
175	5.00 - 9.00% of mass 174	5.68 (7.36)
176	95.00 - 101.00% of mass 174	73.42 (95.26)
177	5.00 - 9.00% of mass 176	4.52 (6.16)

Date : 13-APR-2016 00:12

Client ID: Instrument: 50mv3a.i

Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0 Operator: jlz

Column phase: Column diameter: 2.00

Data File: g01ccv-bfb.d
Spectrum: HP ChemStation MS g01ccv-bfb.d, Scan 1455: 8.159 min.
Location of Maximum: 95.05
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.05	930	57.15	2466	79.95	671	117.85	195
37.05	4355	60.05	442	80.95	2229	119.05	364
38.05	4763	61.05	3840	82.05	650	127.85	172
39.05	1462	62.05	3290	86.95	1908	129.85	282
39.95	350	63.05	2461	87.95	2472	140.85	997
43.95	637	63.95	187	90.95	364	142.85	831
45.15	757	68.05	6145	92.05	1643	147.25	174
46.05	228	69.05	7039	93.05	3024	172.85	474
46.95	764	70.05	556	94.05	7065	173.85	41048
47.95	417	71.95	391	95.05	53264	174.95	3023
49.05	3124	73.05	3170	96.05	3165	175.85	39104
50.05	14458	74.05	10366	103.95	271	176.95	2407
51.05	4277	75.05	30488	105.95	264	177.95	171
52.05	207	76.15	2229	107.05	166	306.15	197
54.95	264	77.35	277	115.85	215		
56.05	1463	79.05	2028	116.85	551		

Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b00bfb.d

Date : 25-MAR-2016 13:31

Client ID:

Instrument: 50mv3b.i

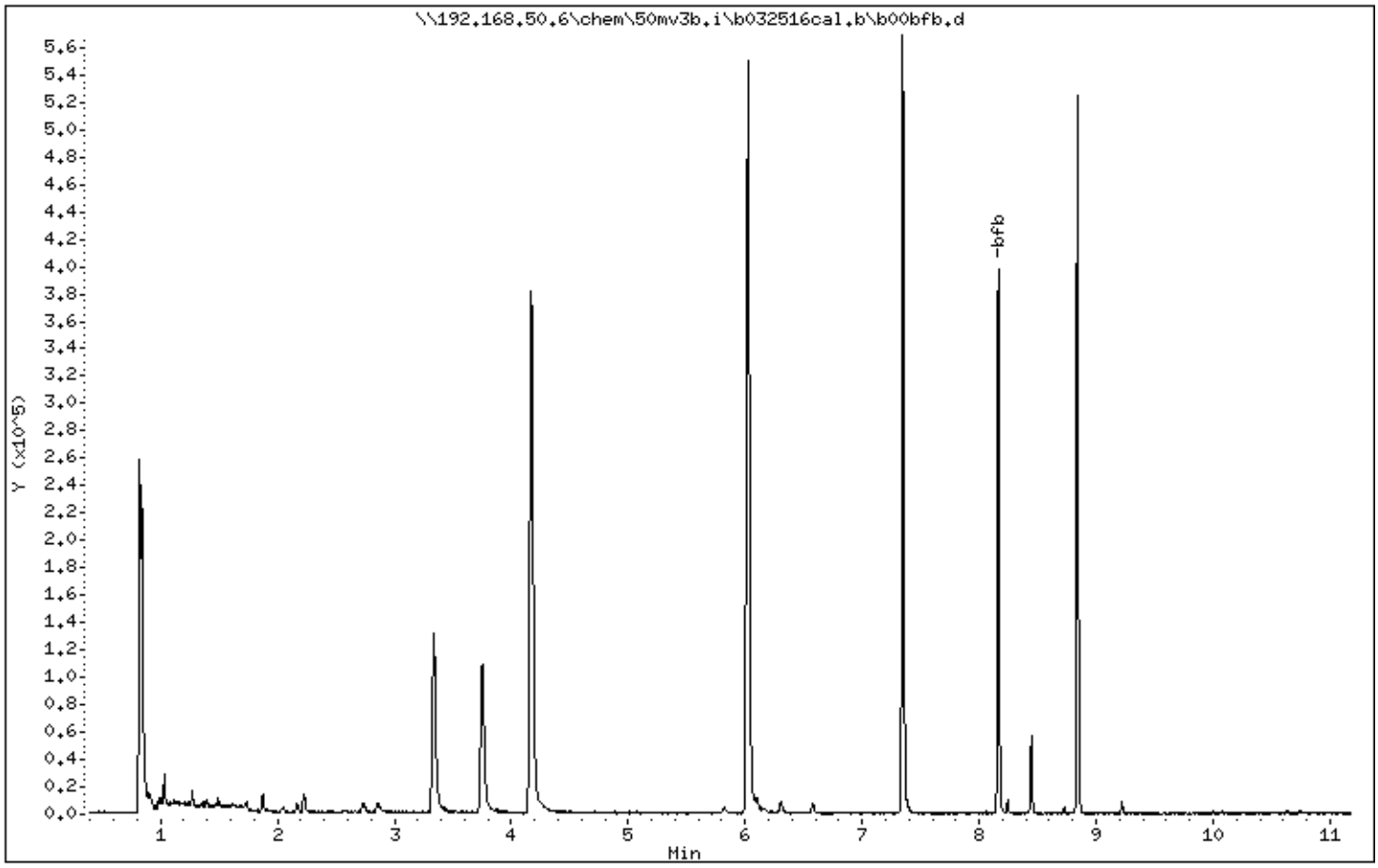
Sample Info: 8260-TUNE,117885:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3b.i\b032516cal.b\b00bfb.d

Date : 25-MAR-2016 13:31

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-TUNE,117885:0

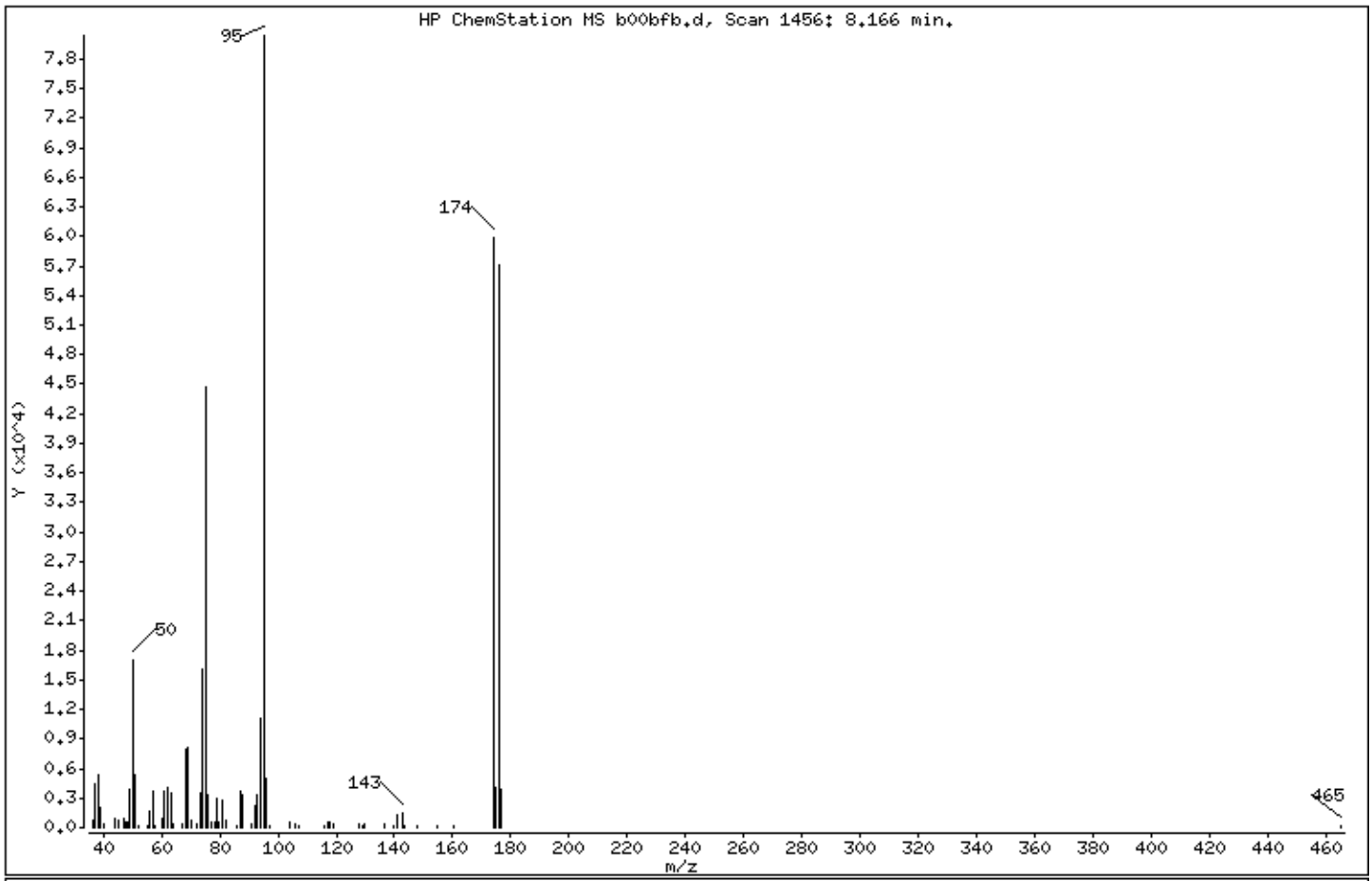
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.22
75	30.00 - 60.00% of mass 95	55.54
96	5.00 - 9.00% of mass 95	6.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	74.56
175	5.00 - 9.00% of mass 174	5.03 (6.74)
176	95.00 - 101.00% of mass 174	70.94 (95.14)
177	5.00 - 9.00% of mass 176	4.82 (6.80)

Date : 25-MAR-2016 13:31

Client ID: Instrument: 50mv3b.i

Sample Info: 8260-TUNE,117885:0

Volume Injected (uL): 1.0 Operator: jlz

Column phase: Column diameter: 2.00

Data File: b00bfb.d
Spectrum: HP ChemStation MS b00bfb.d, Scan 1456: 8.166 min.
Location of Maximum: 95.05
Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.15	709	60.05	982	80.95	2730	118.75	307
37.05	4373	61.05	3760	81.95	763	127.75	431
38.05	5313	62.05	3997	85.85	203	128.95	161
39.05	2114	63.05	3433	86.95	3714	129.95	444
39.95	458	64.15	452	87.95	3356	136.75	293
44.05	1008	67.05	346	91.05	416	139.95	190
45.05	831	68.05	7885	92.05	2221	140.95	1383
47.05	1004	69.05	8214	92.95	3245	142.85	1508
47.85	589	70.05	657	94.05	11132	143.75	186
48.05	583	71.95	370	95.05	80376	147.85	241
49.05	3887	73.05	3547	96.05	5042	154.85	180
50.05	17056	74.05	16095	96.85	175	160.65	213
51.05	5279	75.05	44640	103.85	606	173.95	59928
51.95	271	76.05	3403	105.85	297	174.95	4042
55.05	251	76.95	609	107.25	203	175.95	57016
56.05	1687	78.05	465	116.05	253	176.85	3875
57.05	3632	78.95	2885	116.95	521	465.45	180
57.95	184	79.85	581	117.85	479		

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d00bfb.d

Date : 11-APR-2016 22:41

Client ID:

Instrument: 50mv3b.i

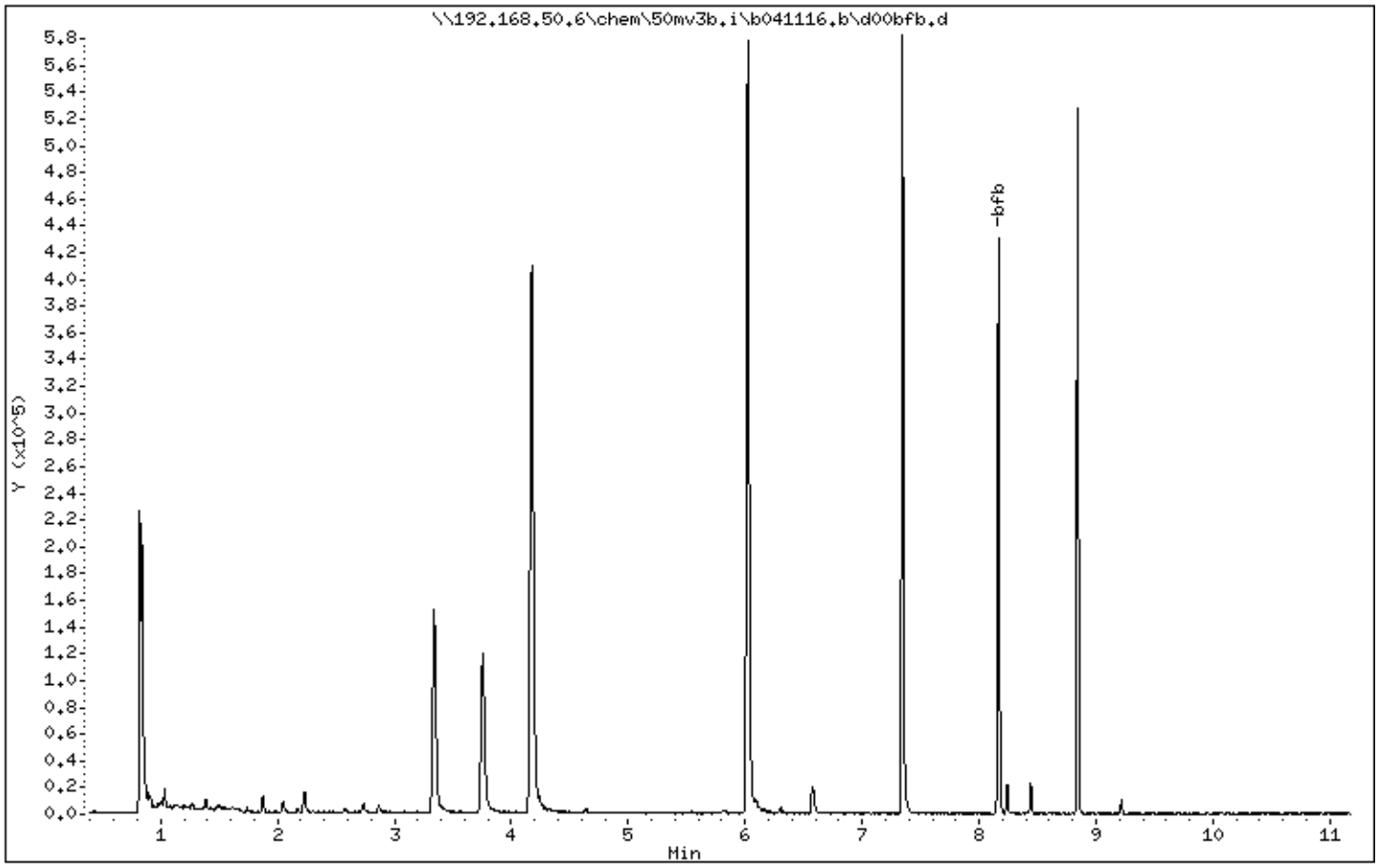
Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d00bfb.d

Date : 11-APR-2016 22:41

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-TUNE,118671:0

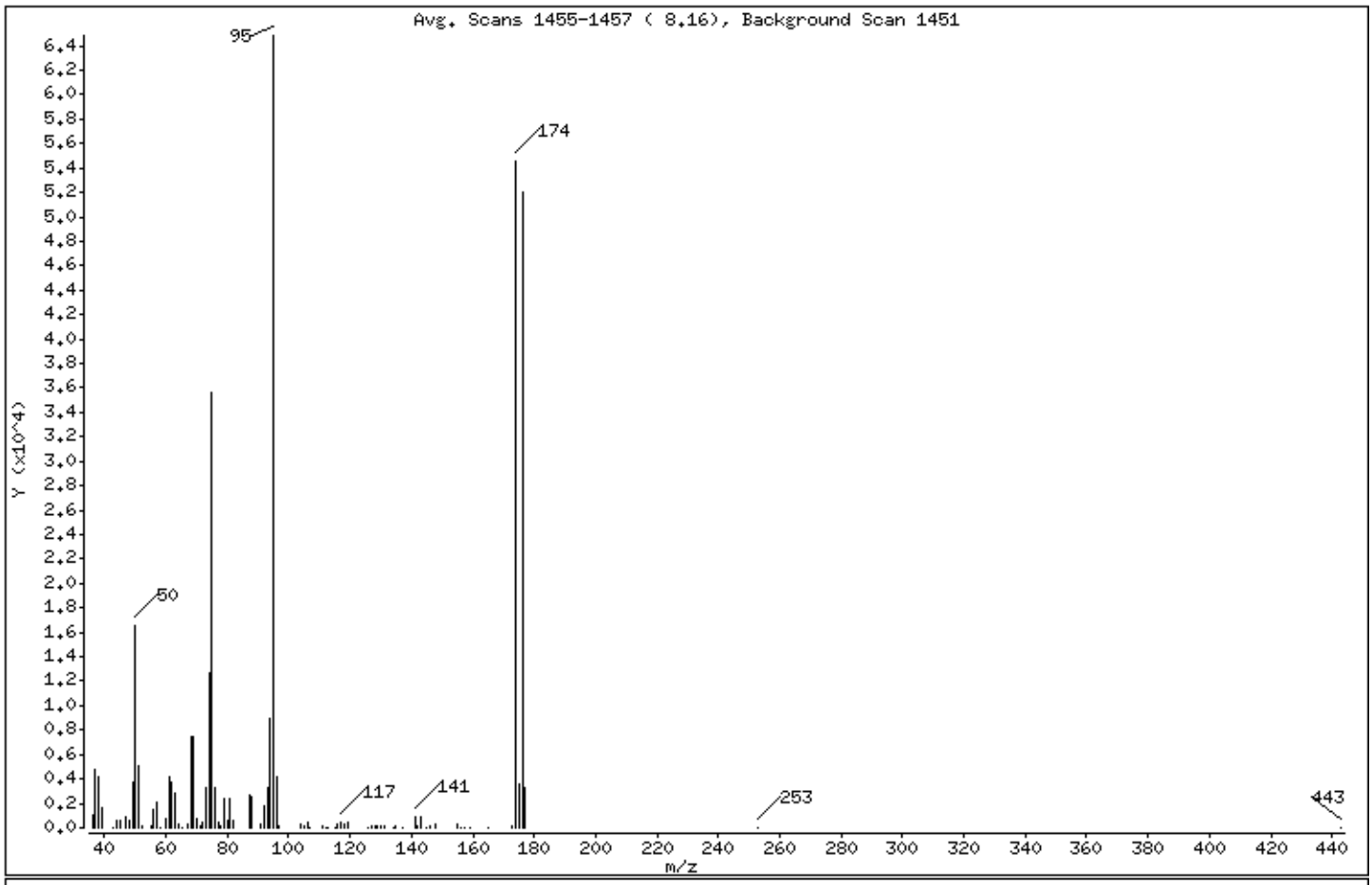
Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.46
75	30.00 - 60.00% of mass 95	54.91
96	5.00 - 9.00% of mass 95	6.42
173	Less than 2.00% of mass 174	0.24 (0.28)
174	50.00 - 100.00% of mass 95	84.13
175	5.00 - 9.00% of mass 174	5.62 (6.68)
176	95.00 - 101.00% of mass 174	80.32 (95.47)
177	5.00 - 9.00% of mass 176	4.99 (6.21)

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d00bfb.d

Date : 11-APR-2016 22:41

Client ID:

Instrument: 50mv3b.i

Sample Info: 8260-TUNE,118671:0

Volume Injected (uL): 1.0

Operator: jlz

Column phase:

Column diameter: 2.00

Data File: d00bfb.d
Spectrum: Avg. Scans 1455-1457 (8.16), Background Scan 1451
Location of Maximum: 95.00
Number of points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1066	65.00	50	94.00	8968	134.00	51
37.00	4775	67.00	255	95.00	64832	135.00	187
38.00	4241	68.00	7437	96.00	4160	137.00	64
39.00	1659	69.00	7501	97.00	113	141.00	952
43.00	68	70.00	721	104.00	340	142.00	138
44.00	581	71.00	75	105.00	165	143.00	829
45.00	666	72.00	486	106.00	381	145.00	58
47.00	949	73.00	3343	107.00	64	146.00	83
48.00	591	74.00	12718	111.00	134	148.00	291
49.00	3754	75.00	35600	112.00	61	155.00	336
50.00	16504	76.00	3341	113.00	56	156.00	52
51.00	5120	77.00	421	115.00	60	157.00	68
52.00	185	78.00	101	116.00	327	159.00	63
55.00	199	79.00	2459	117.00	513	165.00	53
56.00	1425	80.00	660	118.00	363	173.00	153
57.00	2161	81.00	2336	119.00	459	174.00	54544
58.00	51	82.00	567	126.00	50	175.00	3642
60.00	715	87.00	2754	127.00	117	176.00	52072
61.00	4153	88.00	2474	128.00	115	177.00	3236
62.00	3795	91.00	309	129.00	95	253.00	71
63.00	2818	92.00	1825	130.00	211	443.00	51
64.00	327	93.00	3293	131.00	215		

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:02 Lab Sample ID: 1516493

Date Analyzed: 04/12/2016 00:02 Lab File ID: A041116.B\C03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:02 Lab Sample ID: 1516493

Date Analyzed: 04/12/2016 00:02 Lab File ID: A041116.B\C03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c03mbw.d
Lab Smp Id: 1516493 Client Smp ID: MB
Inj Date : 12-APR-2016 00:02
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516493
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 53 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

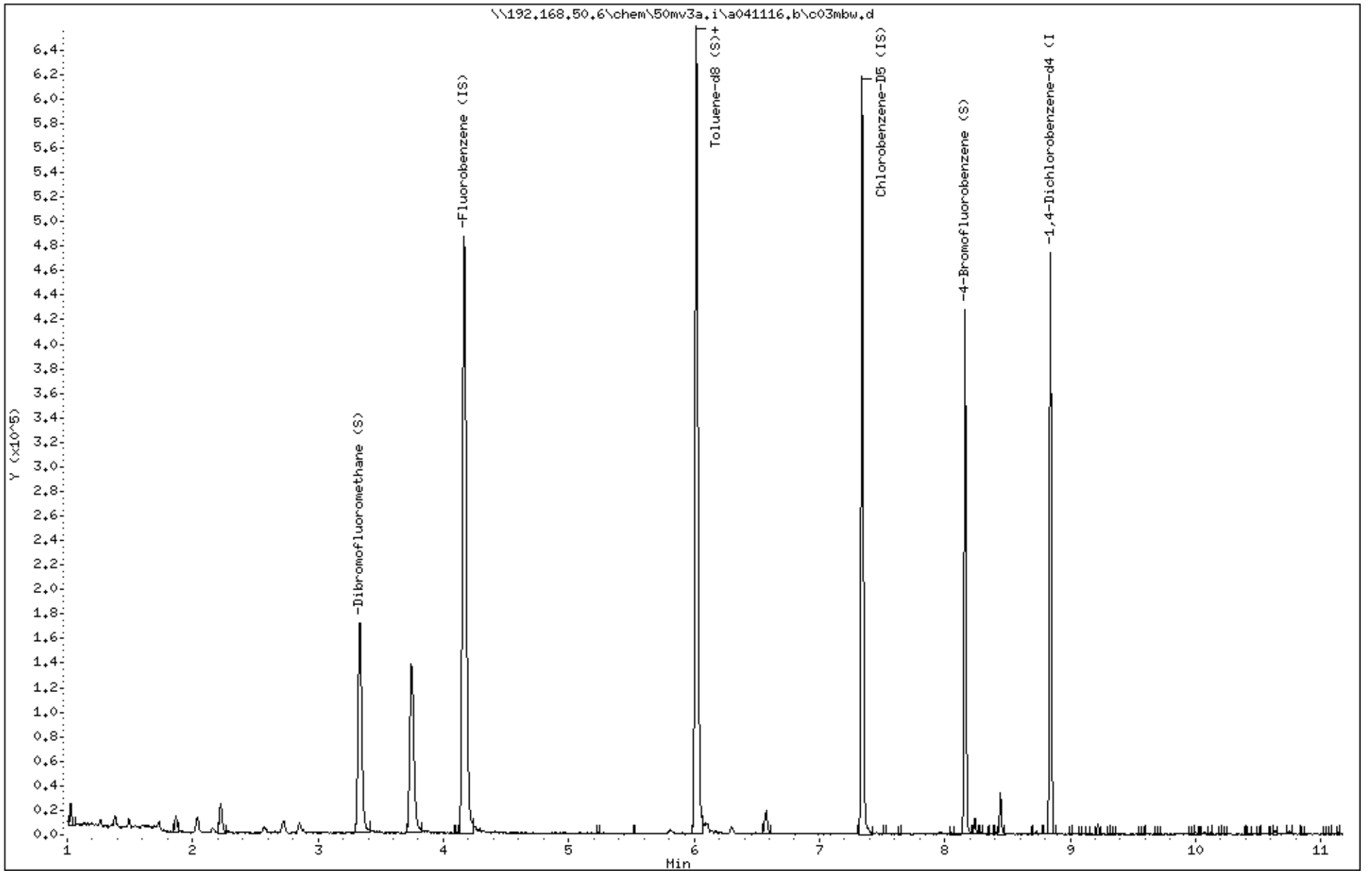
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	18 Methylene Chloride	84	1.867	1.861	(0.448)	3600	1.46455	1.46	
$	35 Dibromofluoromethane (S)	113	3.330	3.330	(0.800)	112983	52.1800	52.2	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	480556	50.0000		
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	381000	48.8093	48.8	
	57 Toluene	91	6.092	6.091	(0.830)	3475	0.34726	0.347	
*	66 Chlorobenzene-D5 (IS)	117	7.341	7.341	(1.000)	227214	50.0000		
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	82446	43.9159	43.9	
*	89 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.842	(1.000)	76430	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c03mbw.d
Date : 12-APR-2016 00:02
Client ID: MB
Sample Info: 1516493
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c03mbw.d

Date : 12-APR-2016 00:02

Client ID: MB

Instrument: 50mv3a.i

Sample Info: 1516493

Purge Volume: 5.0

Operator: jlz

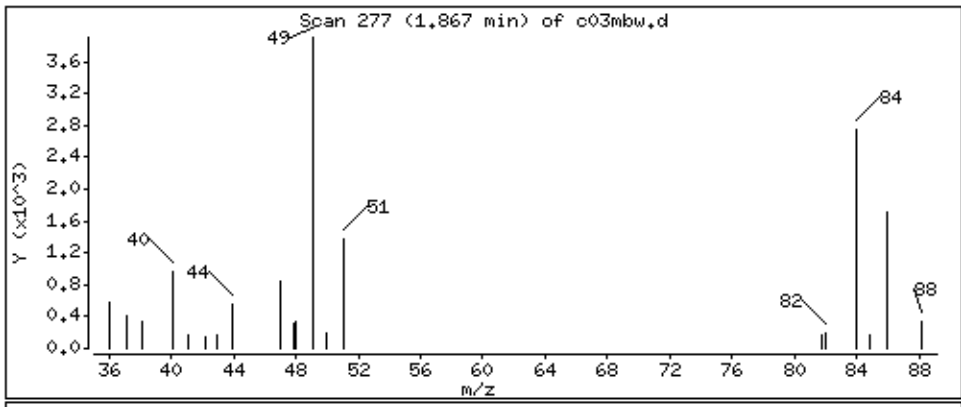
Column phase: DB-624

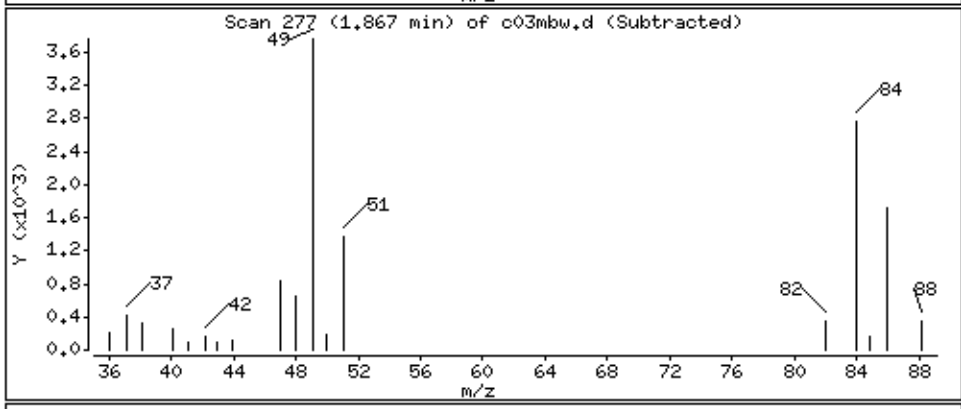
Column diameter: 0.18

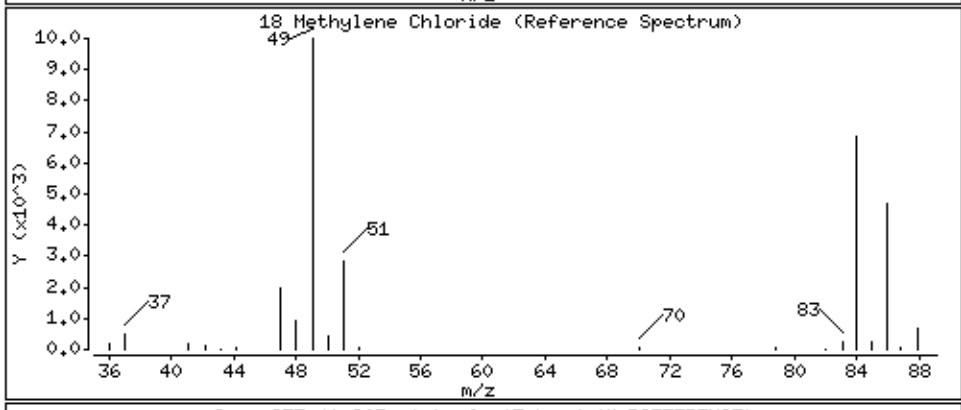
18 Methylene Chloride

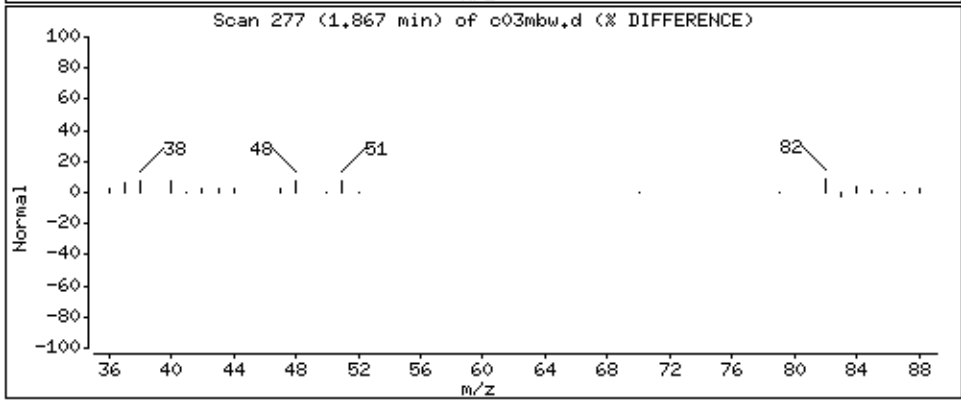
Concentration: 1.46 ppb

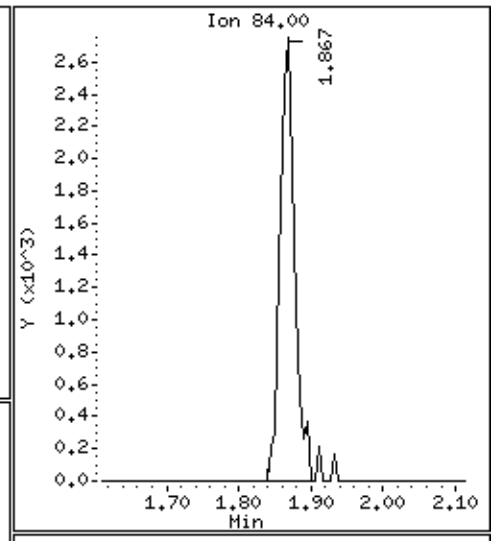
Review Code:

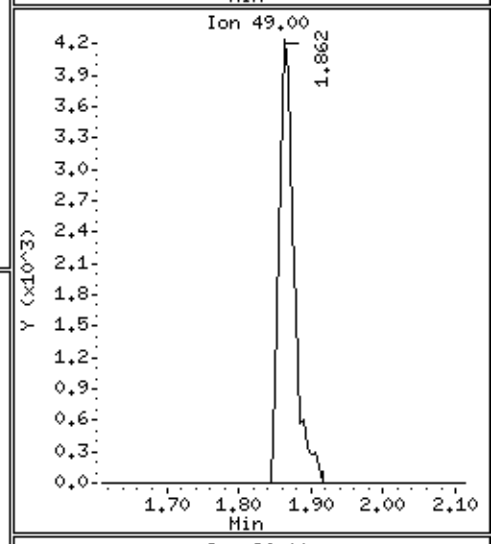


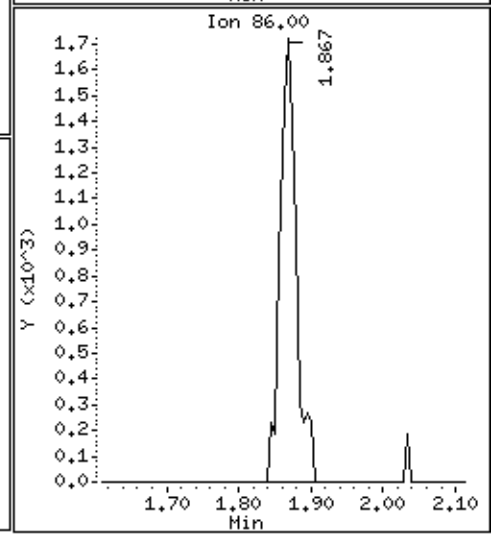












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c03mbw.d

Date : 12-APR-2016 00:02

Client ID: MB

Instrument: 50mv3a.i

Sample Info: 1516493

Purge Volume: 5.0

Operator: jlz

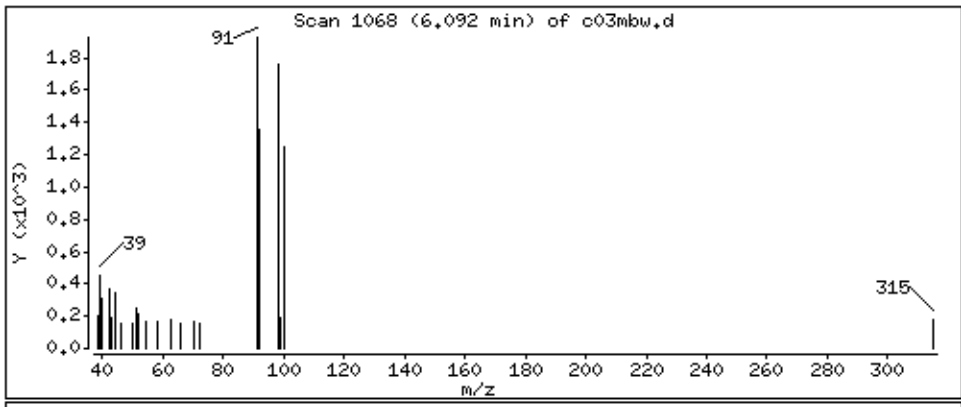
Column phase: DB-624

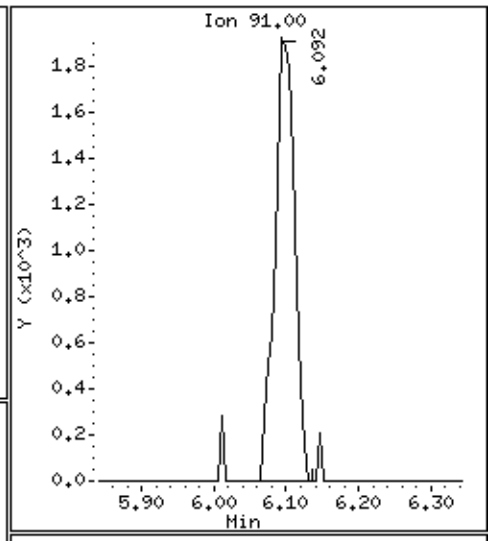
Column diameter: 0.18

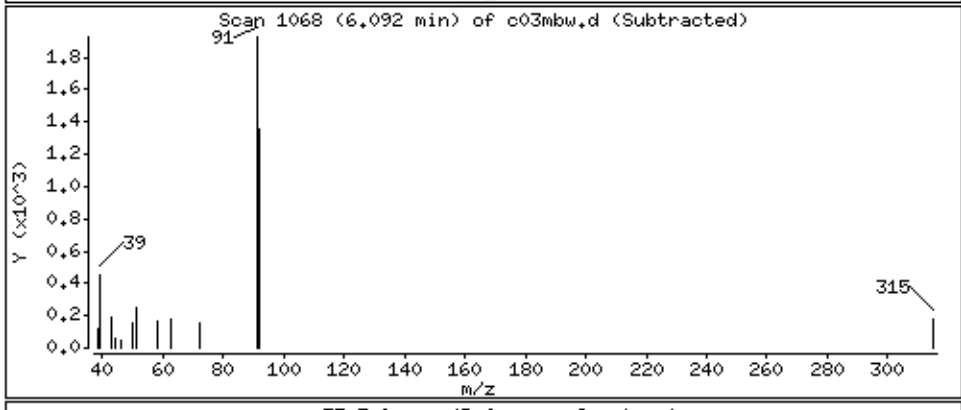
57 Toluene

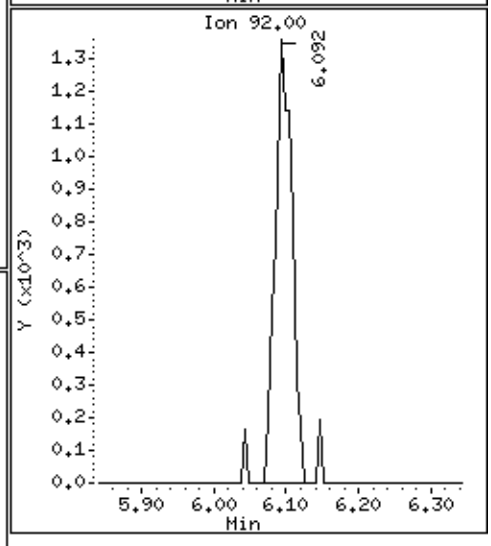
Concentration: 0.347 ppb

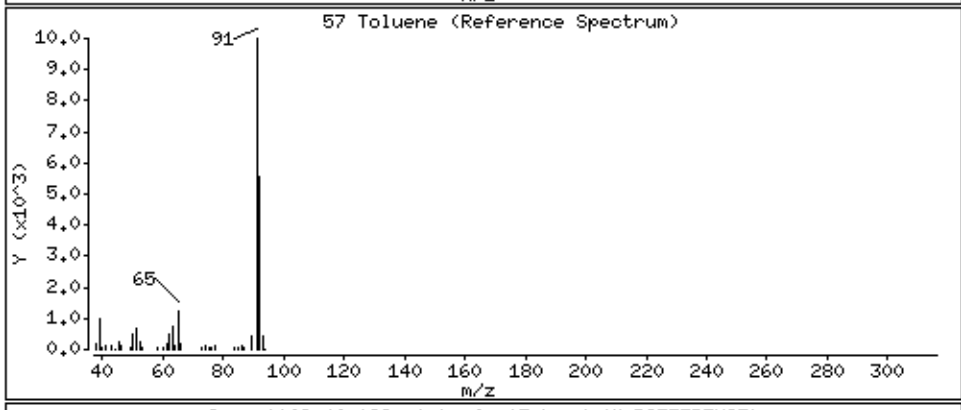
Review Code:

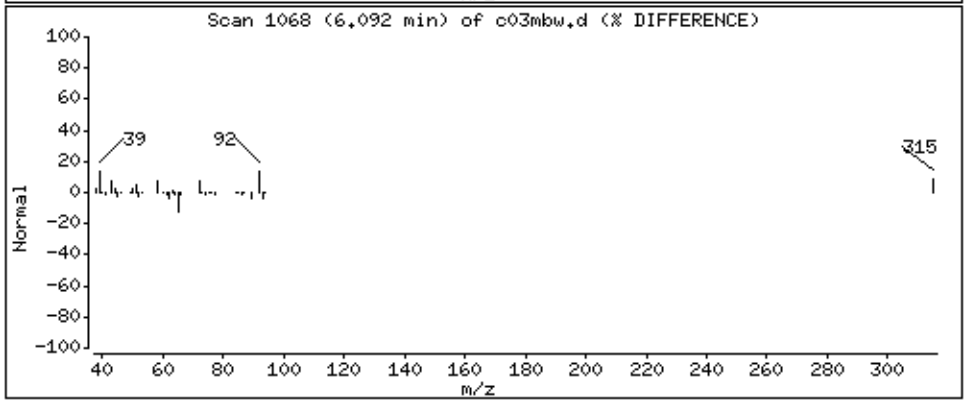












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c03mbw.d
Injection Date: 12-APR-2016 00:02
Instrument: 50mv3a.i
Lab Sample ID: 1516493
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 23:30 Lab Sample ID: 1516494

Date Analyzed: 04/11/2016 23:30 Lab File ID: A041116.B\C02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	46.9	
108-90-7	Chlorobenzene	47.8	
67-66-3	Chloroform	47.2	
75-35-4	1,1-Dichloroethene	46.2	
156-59-2	cis-1,2-Dichloroethene	49.1	
156-60-5	trans-1,2-Dichloroethene	45.6	
78-87-5	1,2-Dichloropropane	47.1	
100-41-4	Ethylbenzene	50.4	
98-82-8	Isopropylbenzene (Cumene)	49.7	
1634-04-4	Methyl-tert-butyl ether	49.4	
79-34-5	1,1,2,2-Tetrachloroethane	46.6	
127-18-4	Tetrachloroethene	52.2	
108-88-3	Toluene	44.5	
71-55-6	1,1,1-Trichloroethane	50.2	
79-01-6	Trichloroethene	46.8	
75-01-4	Vinyl chloride	44.8	
1330-20-7	Xylene (Total)	147	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d
Lab Smp Id: 1516494 Client Smp ID: MBLCS
Inj Date : 11-APR-2016 23:30
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516494,118316:5
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 51 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

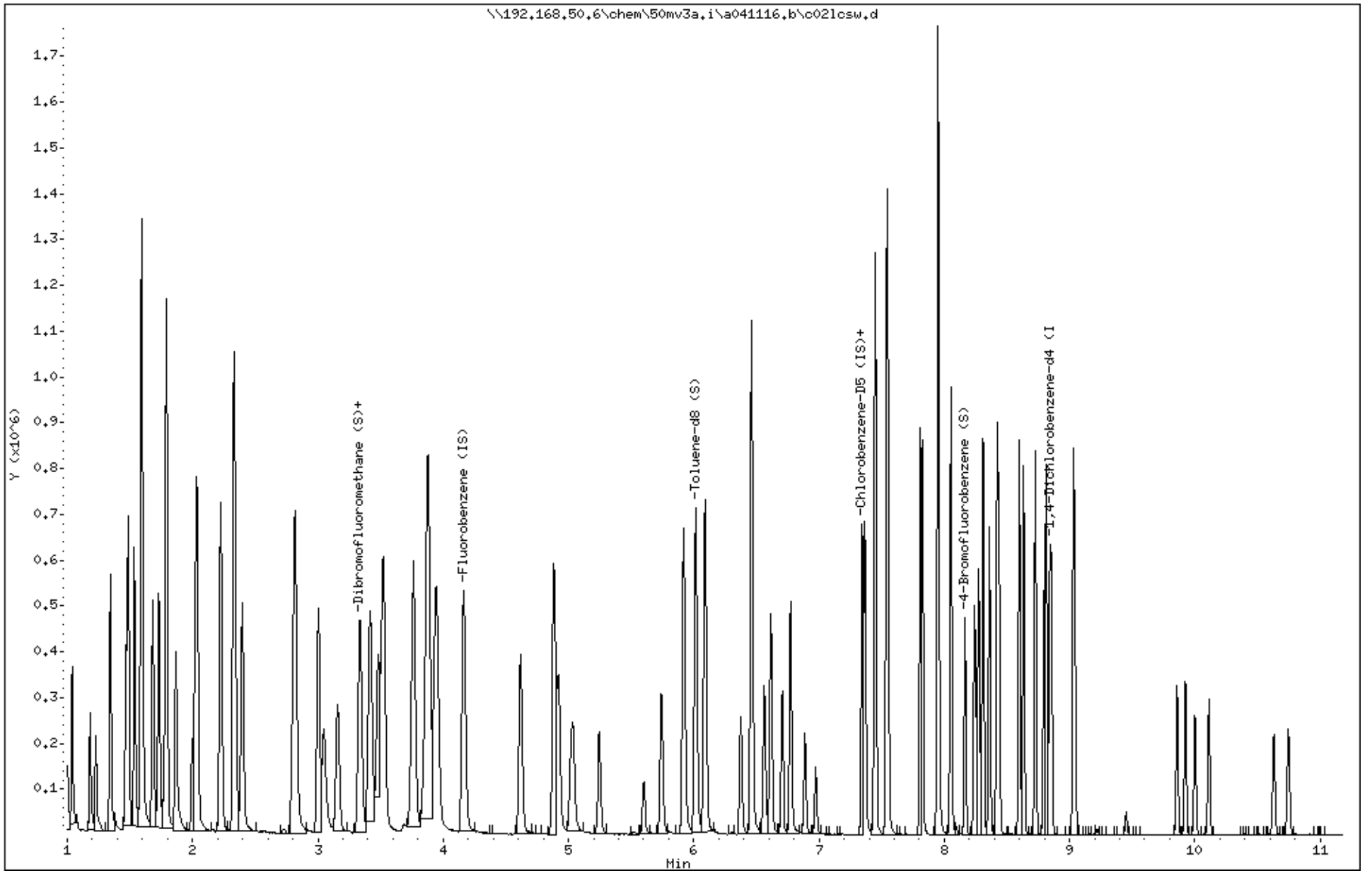
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.039	1.033	(0.250)	201178	44.7665	44.8	
	11 1,1-Dichloroethene	96	1.595	1.594	(0.383)	146705	46.2263	46.2	
	20 Methyl-tert-butyl ether	73	2.027	2.027	(0.487)	307169	49.3704	49.4	
	22 1,2-Dichloroethene (trans)	96	2.038	2.038	(0.490)	133087	45.6207	45.6	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.677)	142395	49.1466	49.1	
	34 Chloroform	83	3.160	3.159	(0.759)	217477	47.2039	47.2	
	36 1,1,1-Trichloroethane	97	3.336	3.330	(0.801)	199753	50.1720	50.2	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	120945	50.7604	50.8	
	41 Benzene	78	3.769	3.763	(0.905)	514694	46.9467	46.9	
*	45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	528808	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.109)	125347	46.7661	46.8	
	48 1,2-Dichloropropane	63	4.922	4.922	(1.182)	117858	47.0589	47.0	
$	56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	416043	50.4039	50.4	
	57 Toluene	91	6.092	6.091	(0.830)	471146	44.5248	44.5	
	61 Tetrachloroethene	166	6.615	6.615	(0.901)	109794	52.2291	52.2	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	240263	50.0000		
	67 Chlorobenzene	112	7.363	7.368	(1.003)	233588	47.7891	47.8	
	69 Ethylbenzene	106	7.449	7.448	(1.015)	139546	50.3871	50.4	
	70 m&p-Xylene	106	7.545	7.544	(1.028)	331164	98.0786	98.1	
	71 o-Xylene	106	7.806	7.806	(1.063)	146349	48.9239	48.9	
	74 Isopropylbenzene	105	8.052	8.052	(1.097)	385119	49.6522	49.6	
$	75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	88607	44.6343	44.6	
	77 1,1,2,2-Tetrachloroethane	83	8.255	8.255	(0.934)	61256	46.6226	46.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.634	8.634	(0.976)	251821	46.9749	47.0	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.842	(1.000)	82375	50.0000		
96 Naphthalene	128	9.996	10.001	(1.130)	144691	45.5253	45.5	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d
Date : 11-APR-2016 23:30
Client ID: MBLCS
Sample Info: 1516494,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

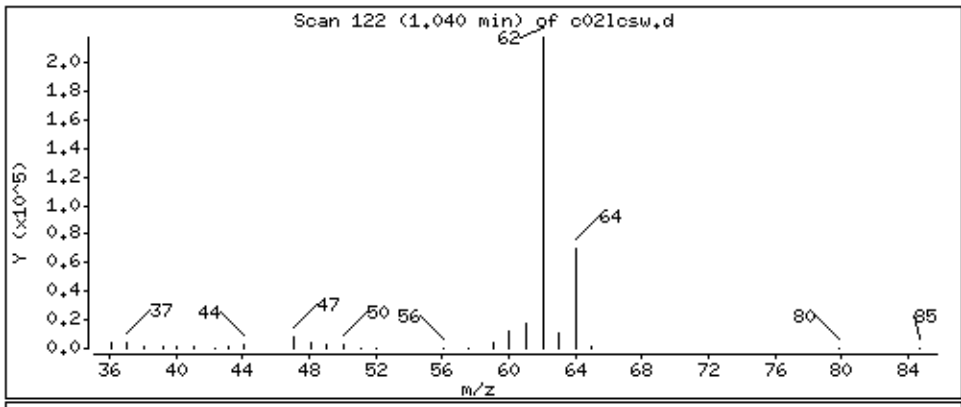
Column phase: DB-624

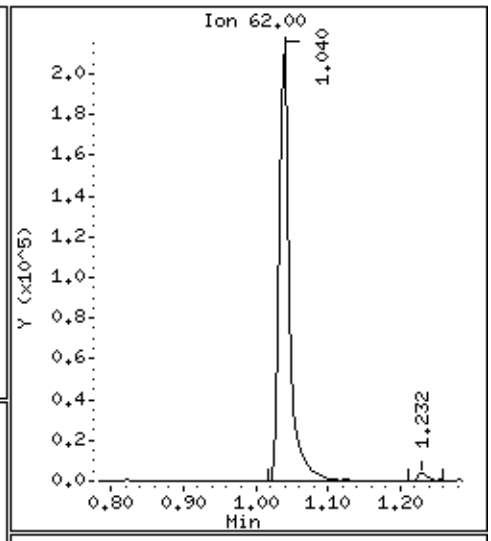
Column diameter: 0.18

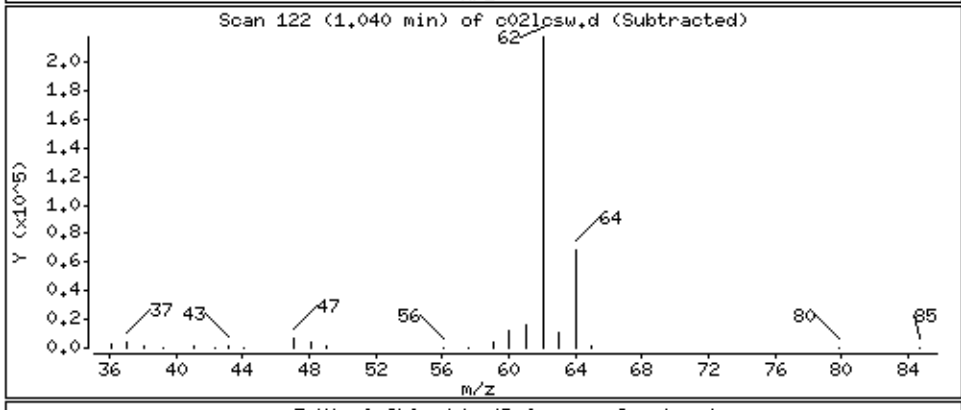
3 Vinyl Chloride

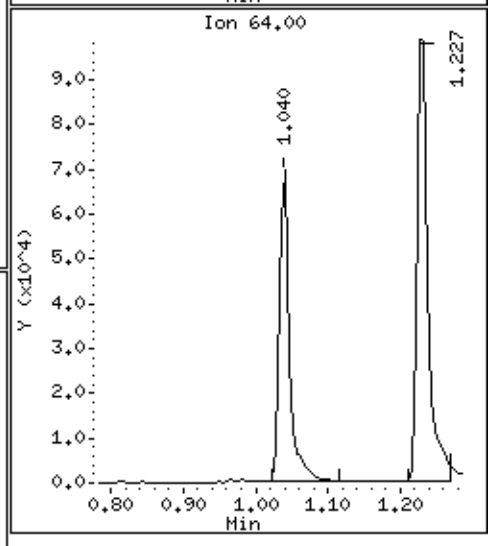
Concentration: 44.8 ppb

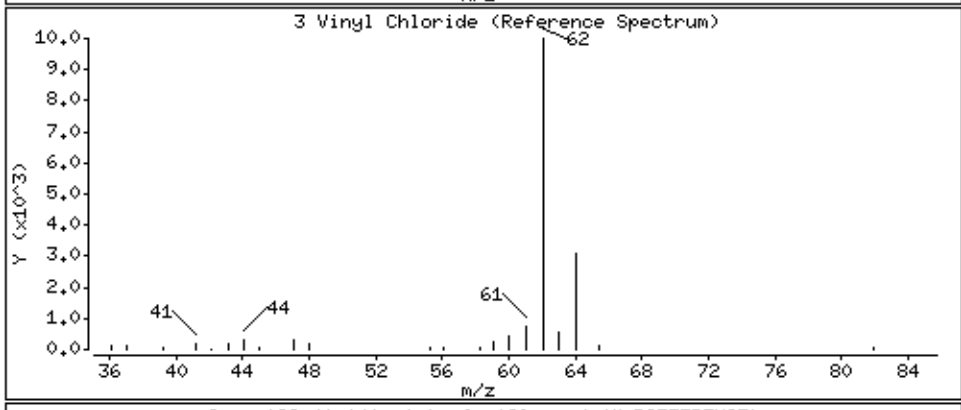
Review Code:

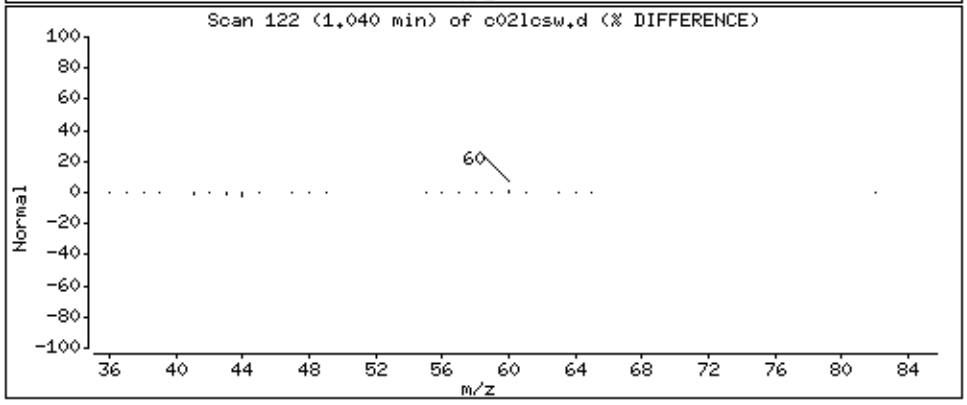












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

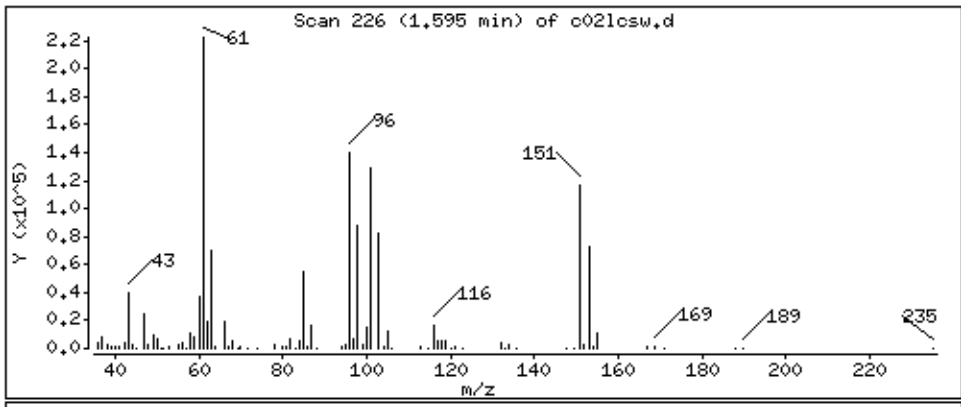
Column phase: DB-624

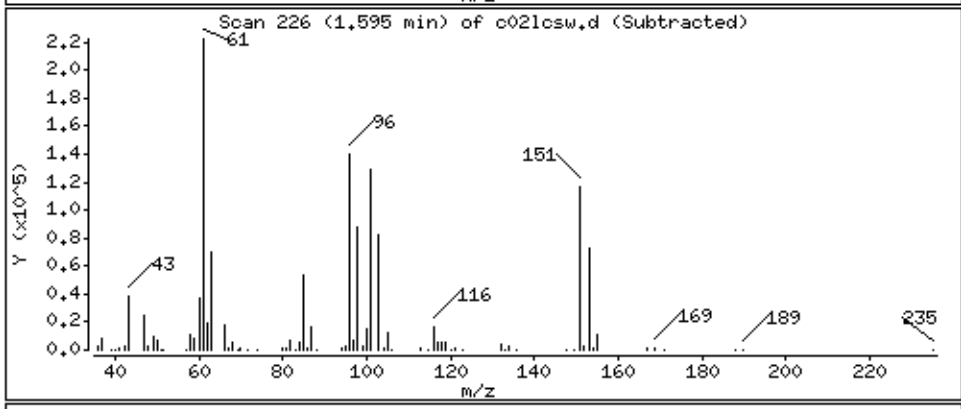
Column diameter: 0.18

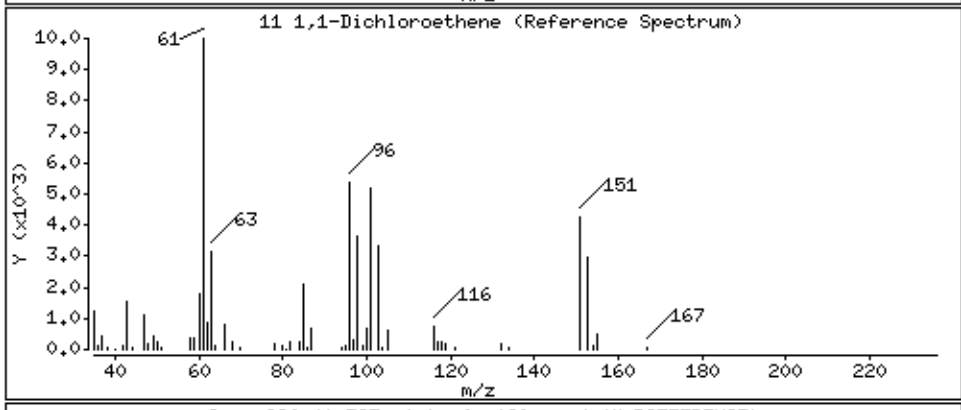
11 1,1-Dichloroethene

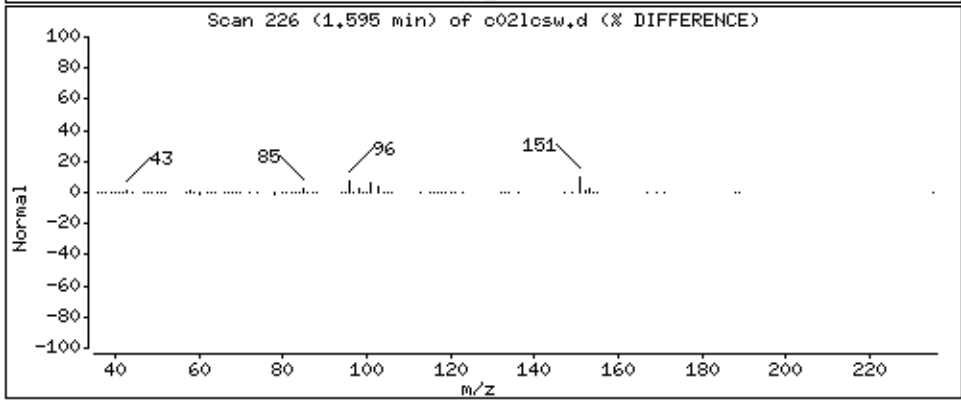
Concentration: 46.2 ppb

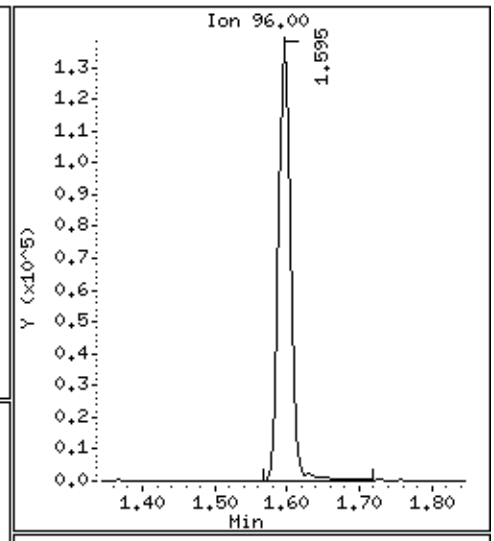
Review Code:

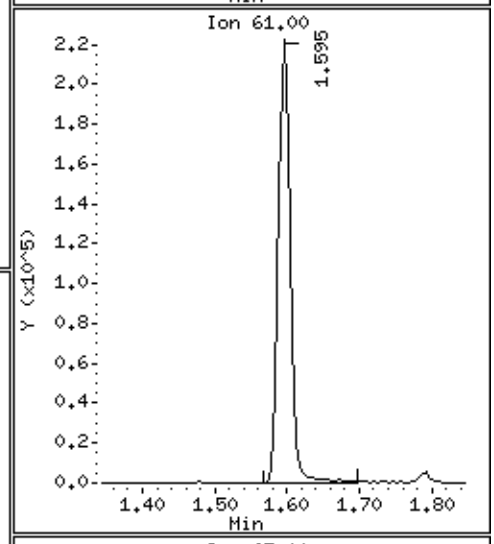


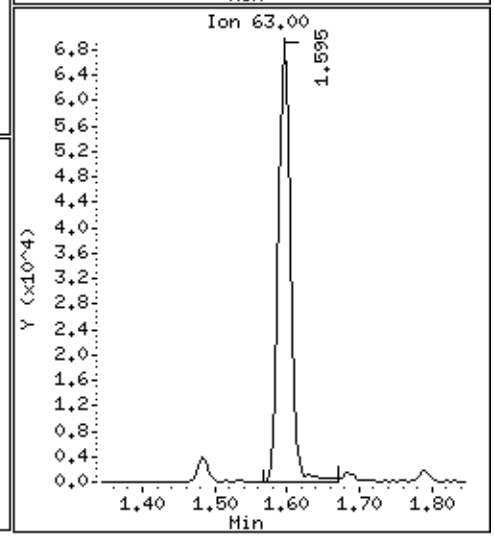












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

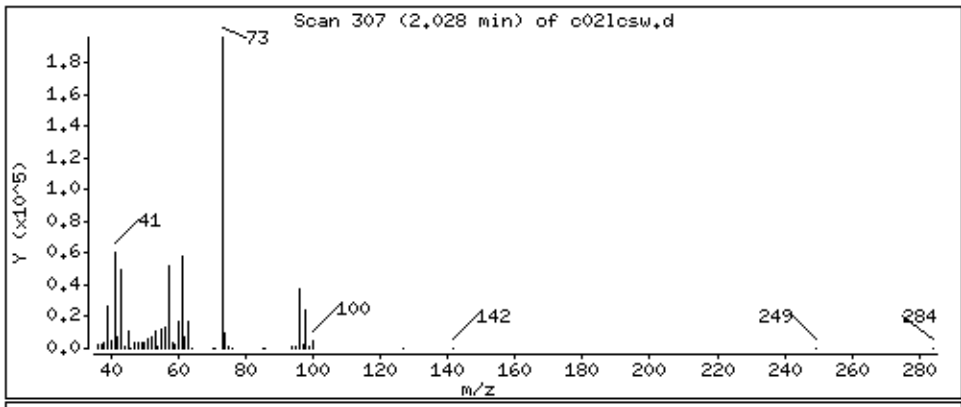
Column phase: DB-624

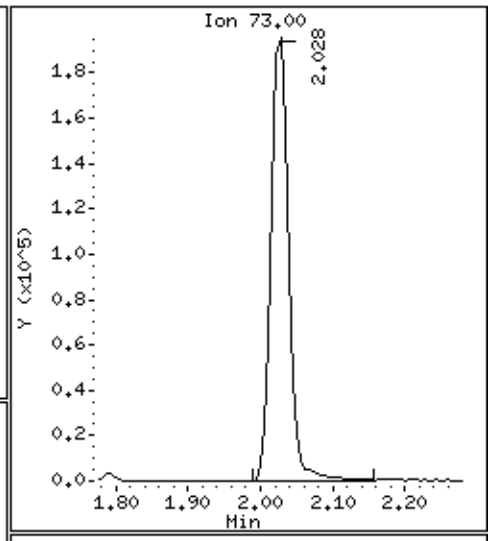
Column diameter: 0.18

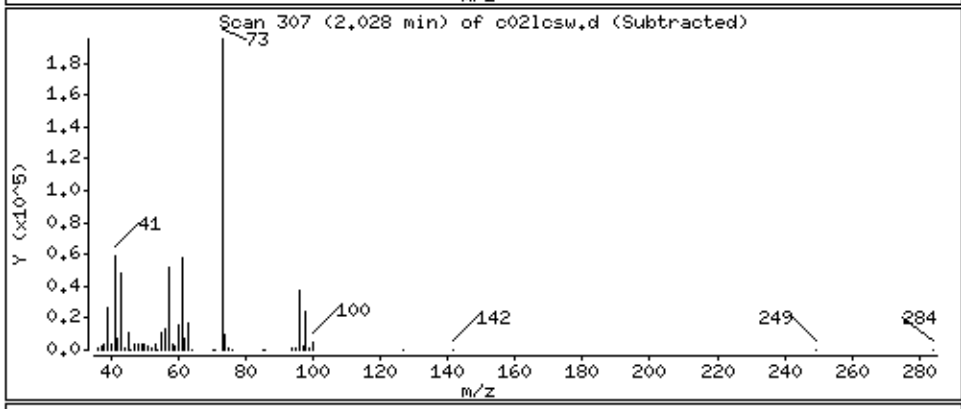
20 Methyl-tert-butyl ether

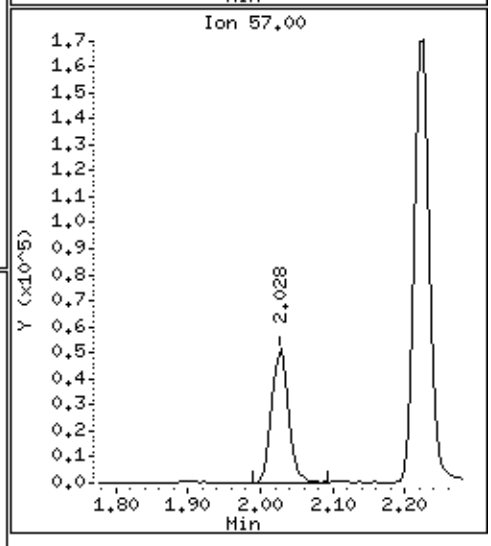
Concentration: 49.4 ppb

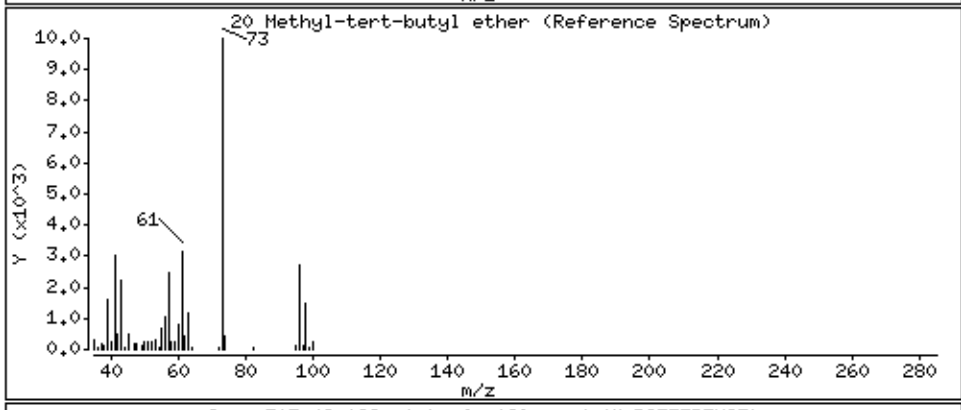
Review Code:

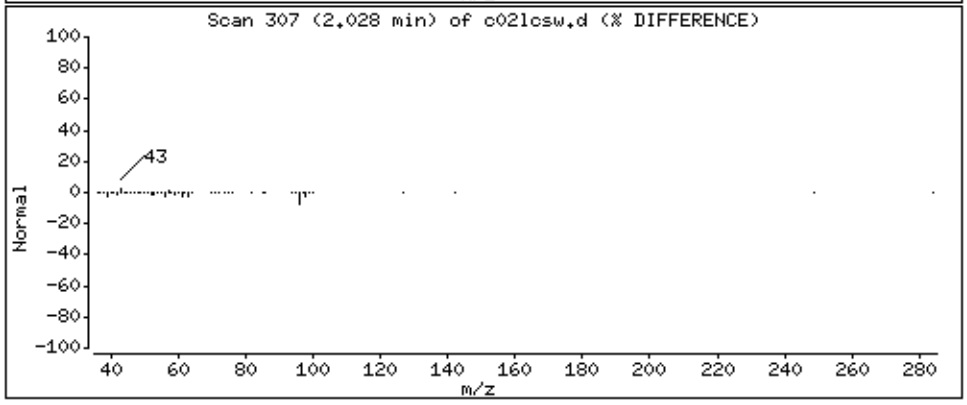












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

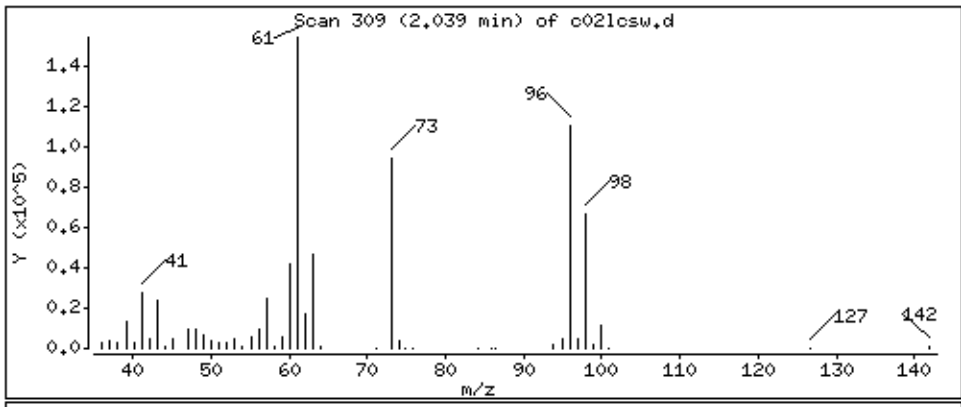
Column phase: DB-624

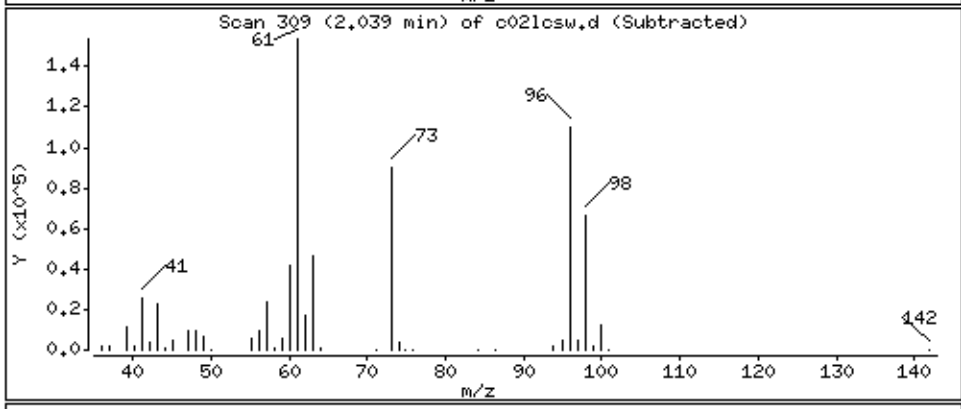
Column diameter: 0.18

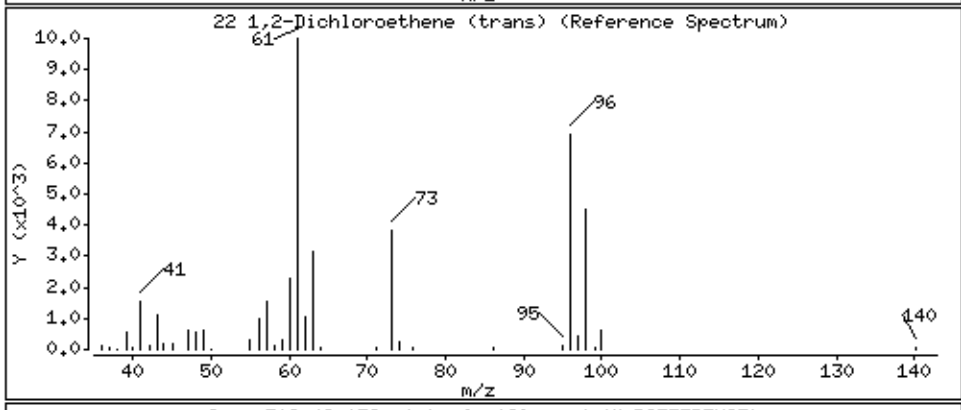
22 1,2-Dichloroethene (trans)

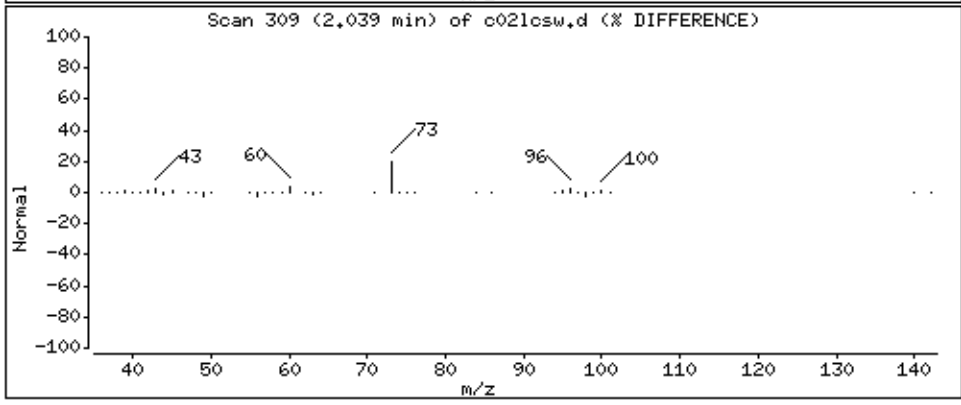
Concentration: 45.6 ppb

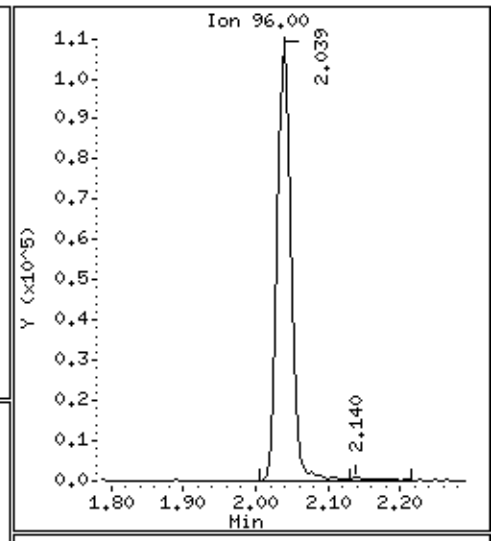
Review Code:

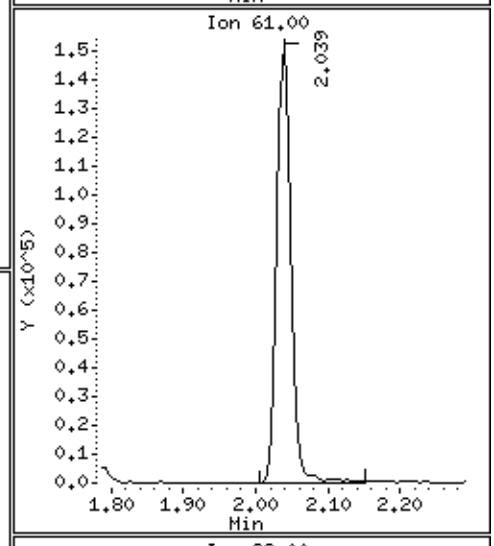


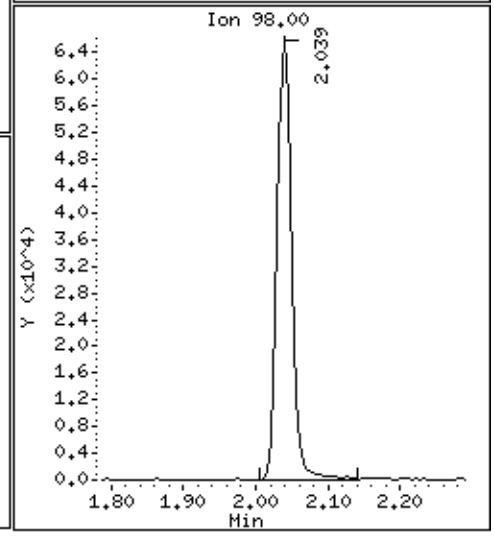












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

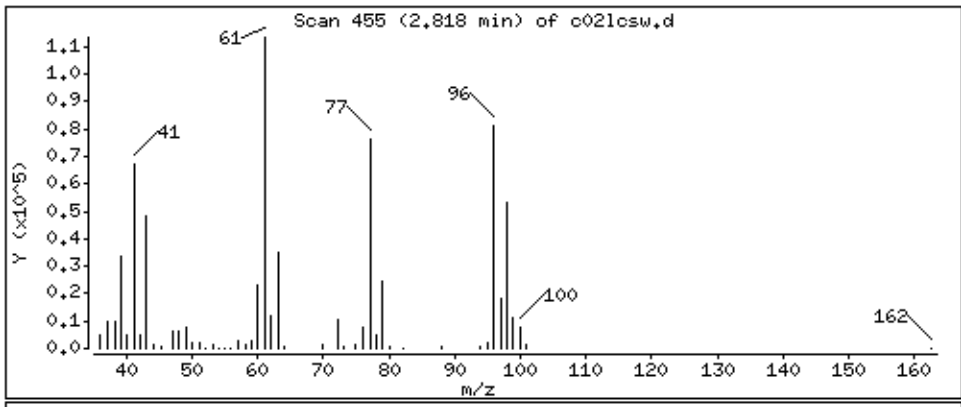
Column phase: DB-624

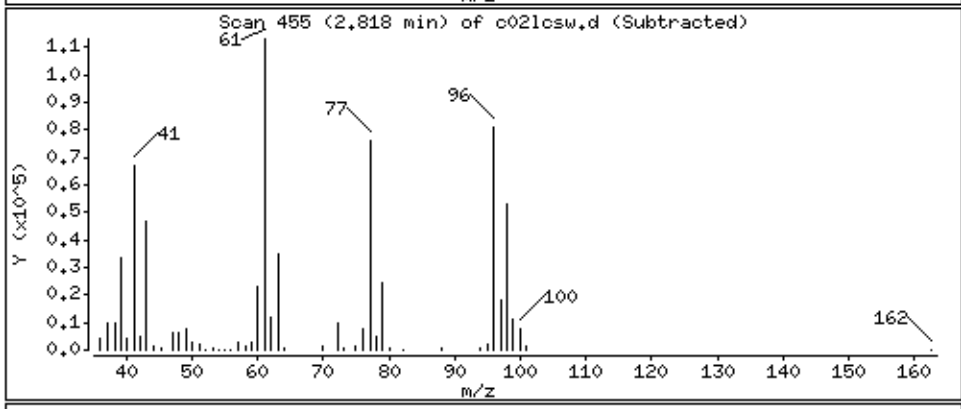
Column diameter: 0.18

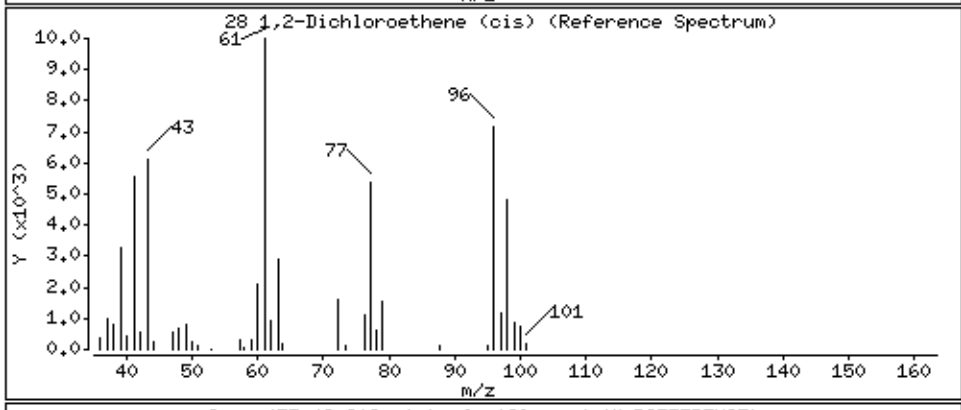
28 1,2-Dichloroethene (cis)

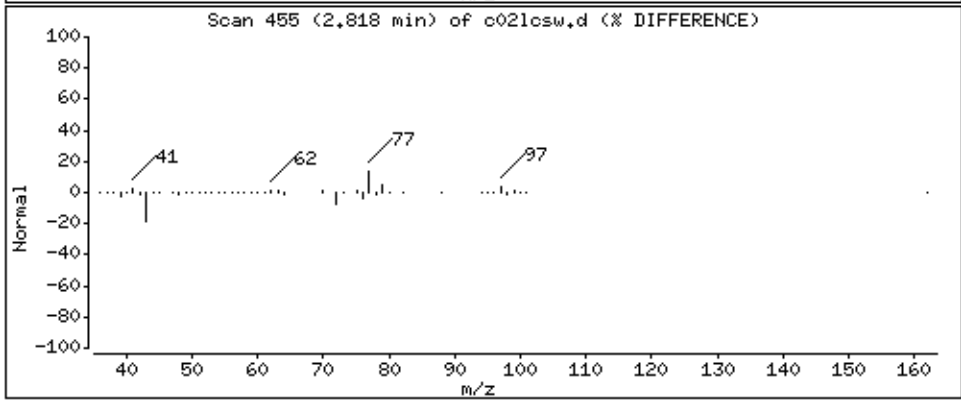
Concentration: 49.1 ppb

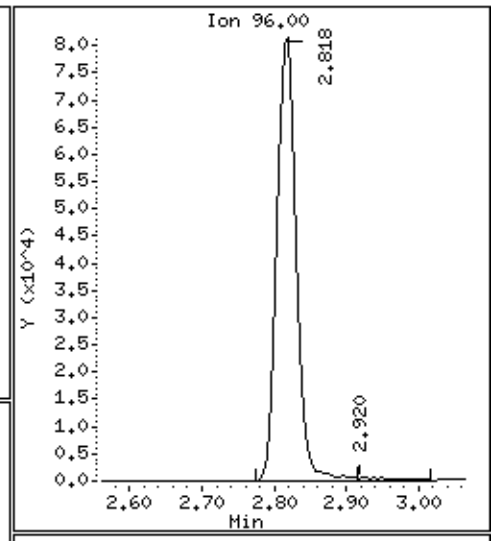
Review Code:

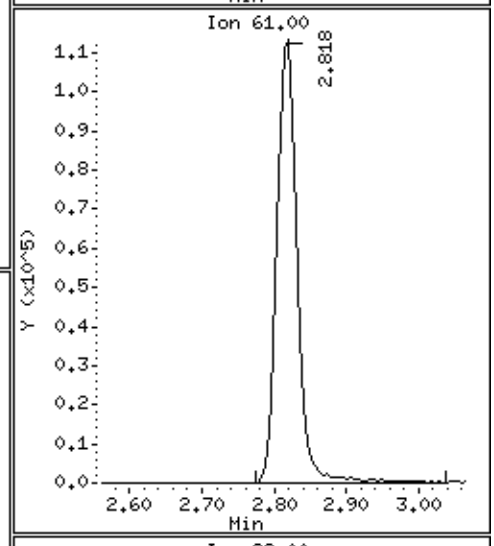


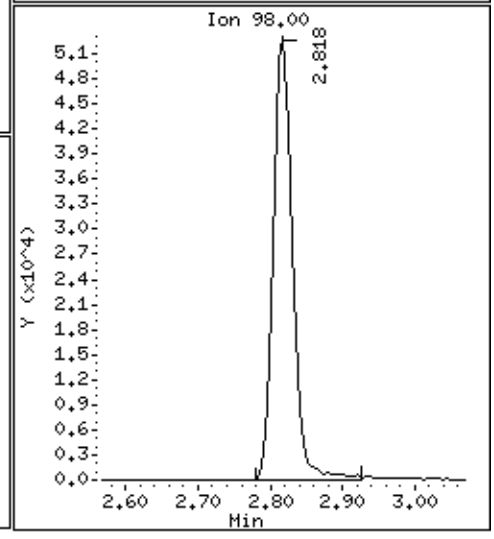












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

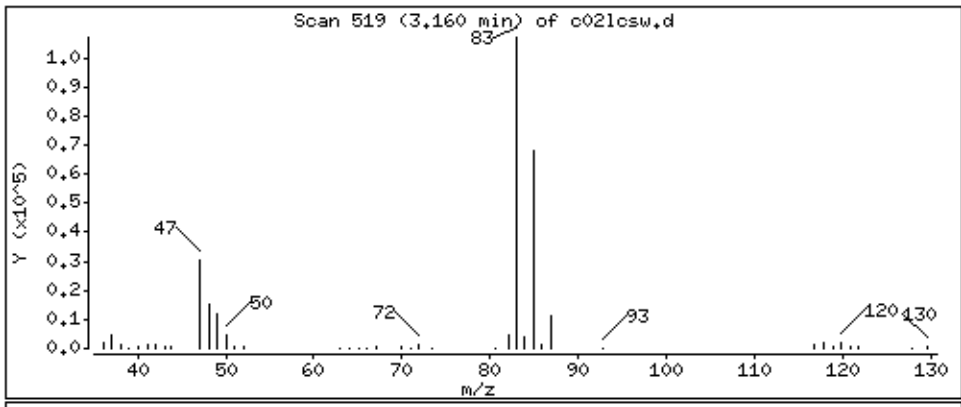
Column phase: DB-624

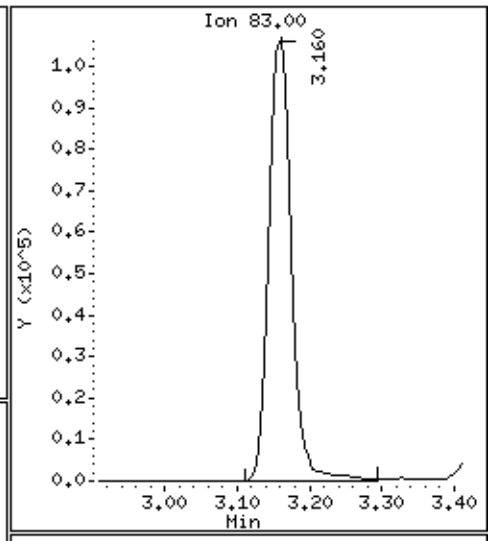
Column diameter: 0.18

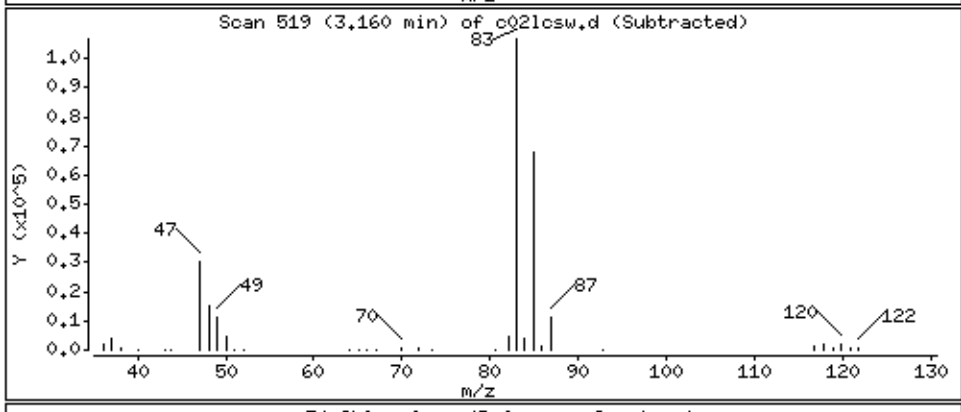
34 Chloroform

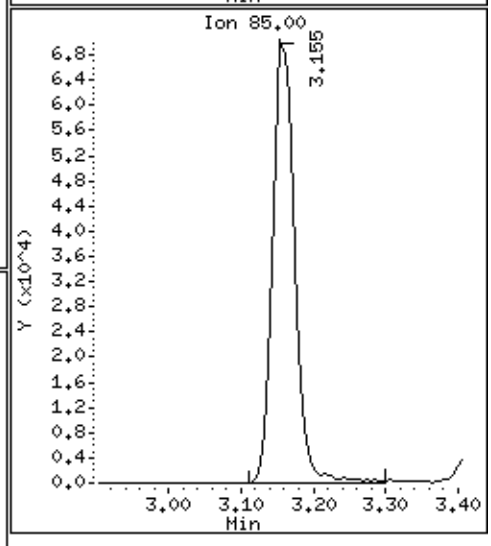
Concentration: 47.2 ppb

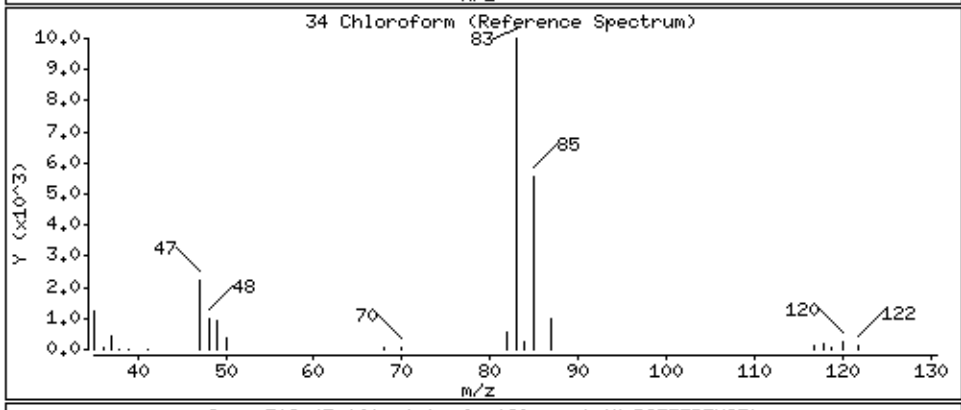
Review Code:

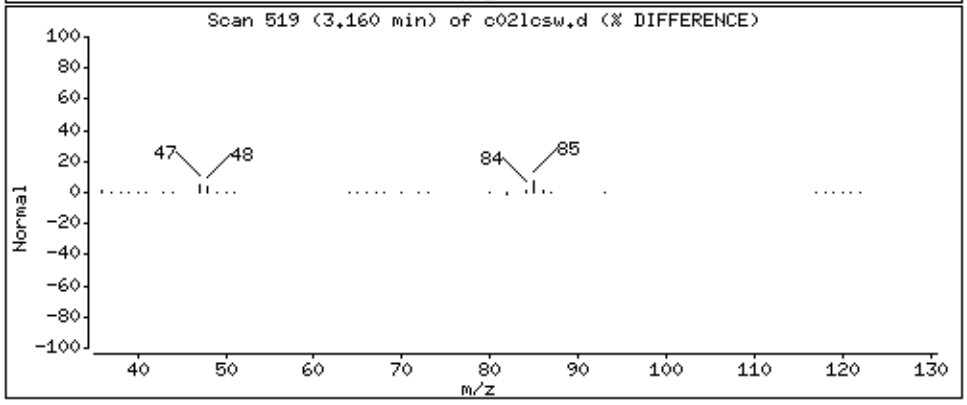












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

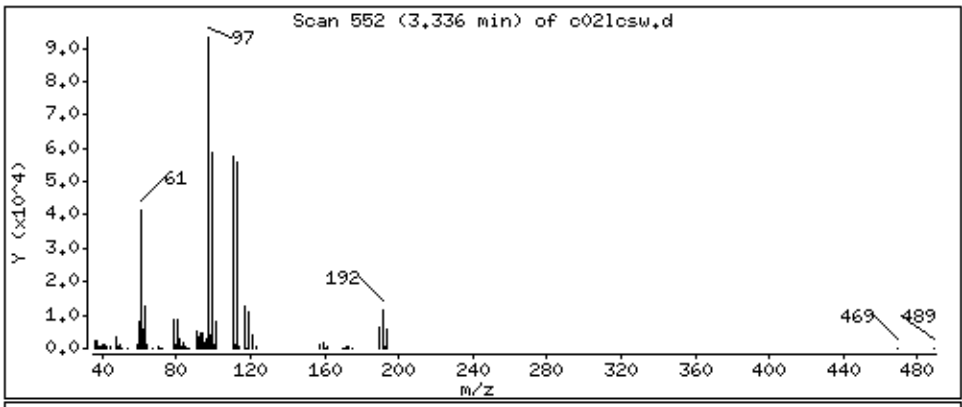
Column phase: DB-624

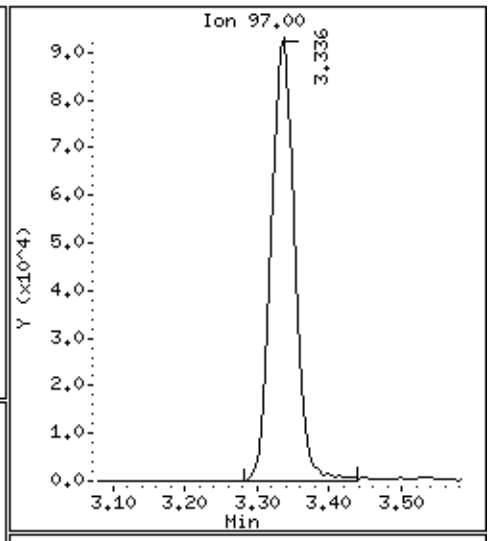
Column diameter: 0.18

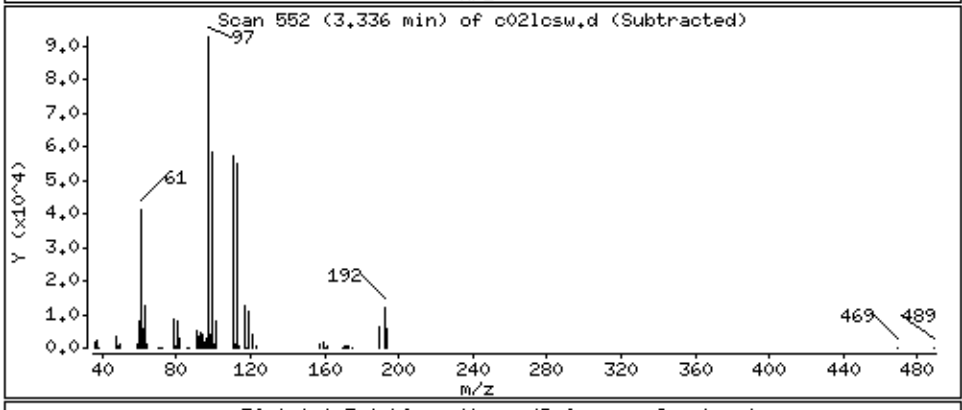
36 1,1,1-Trichloroethane

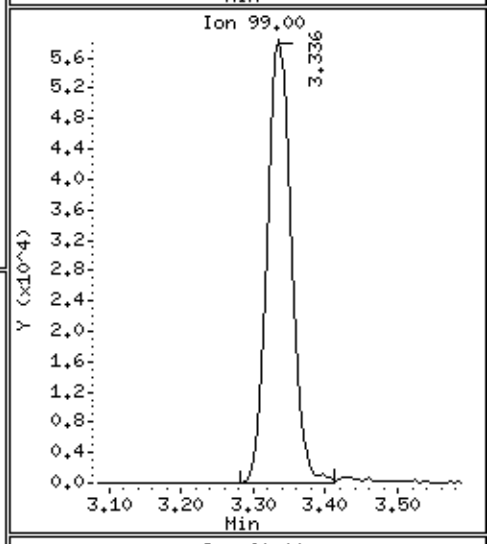
Concentration: 50.2 ppb

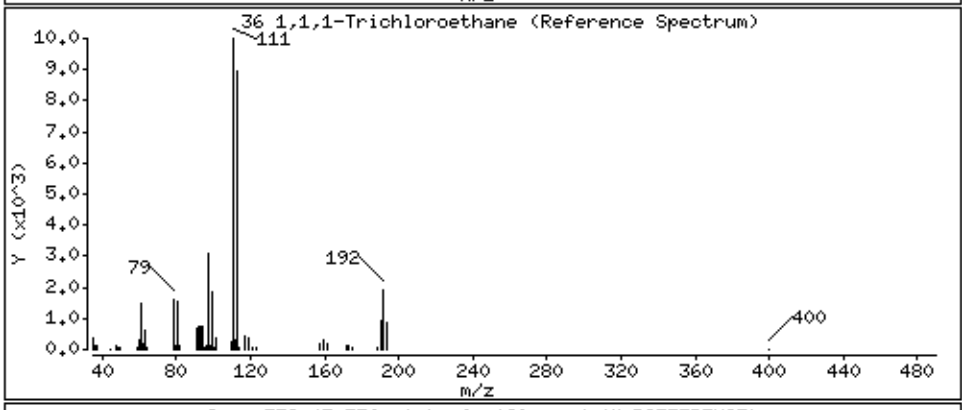
Review Code:

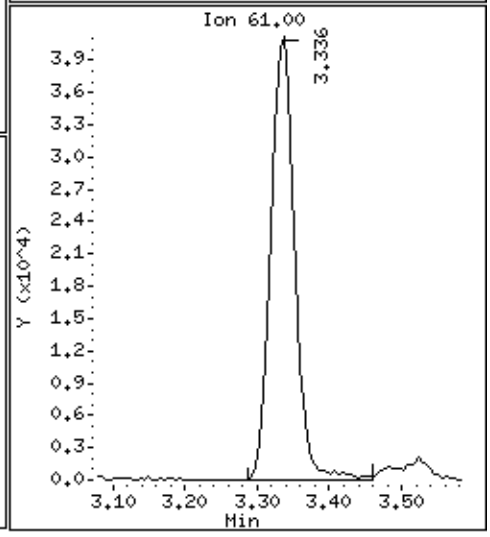


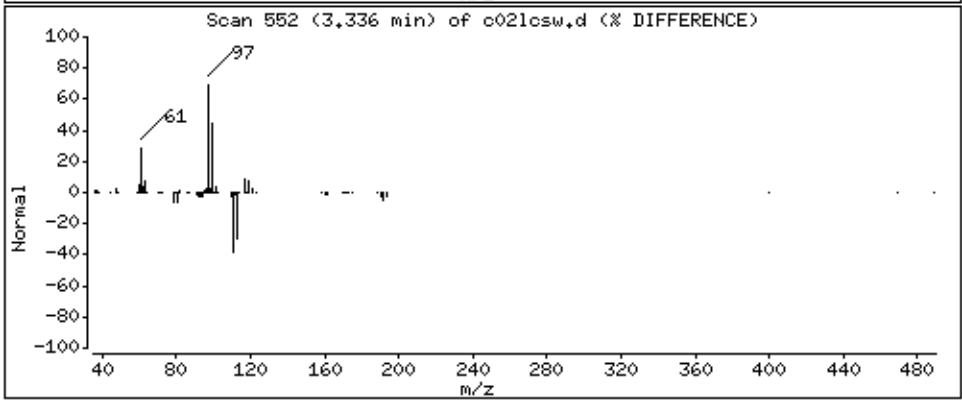












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

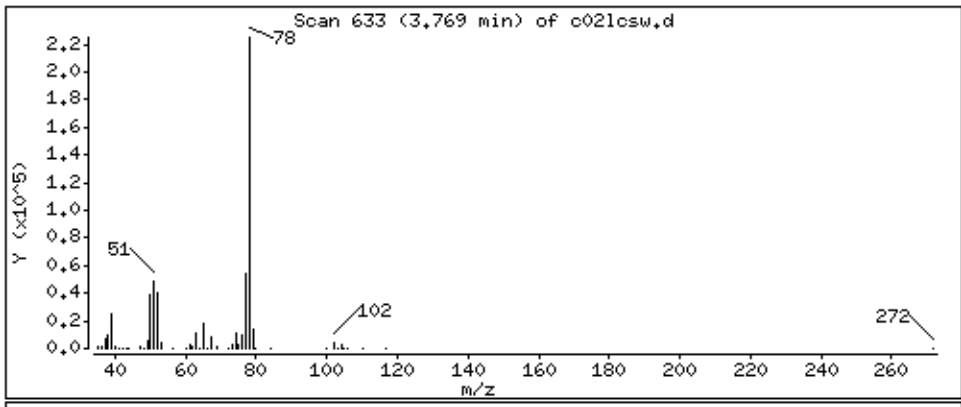
Column phase: DB-624

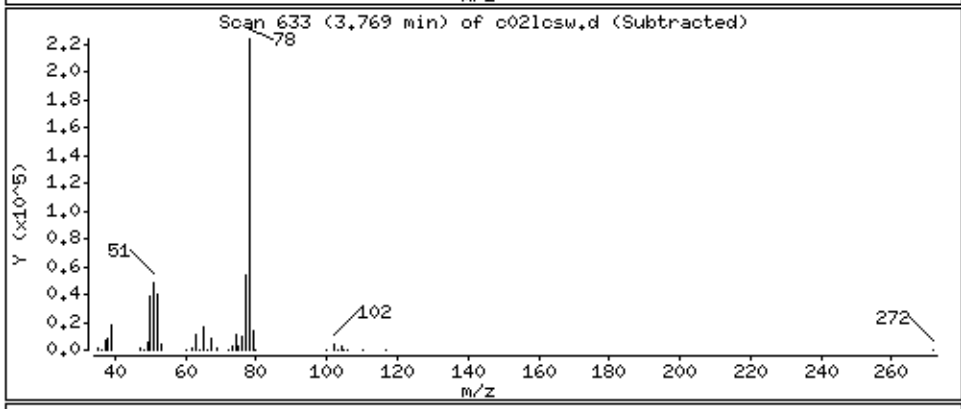
Column diameter: 0.18

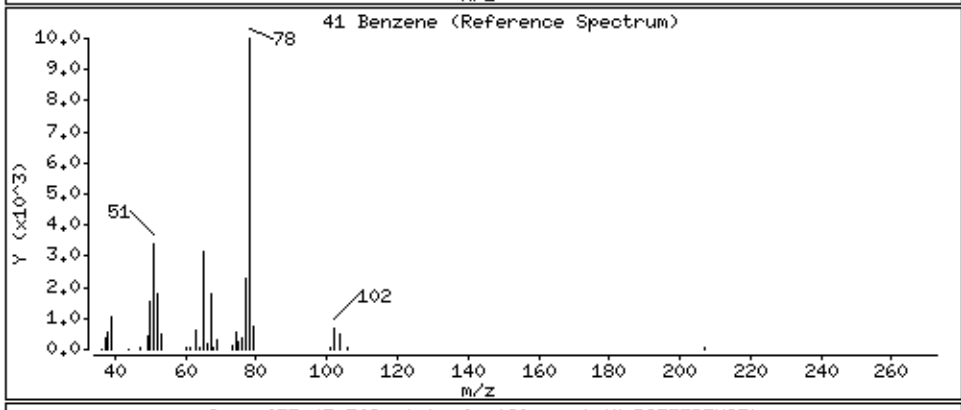
41 Benzene

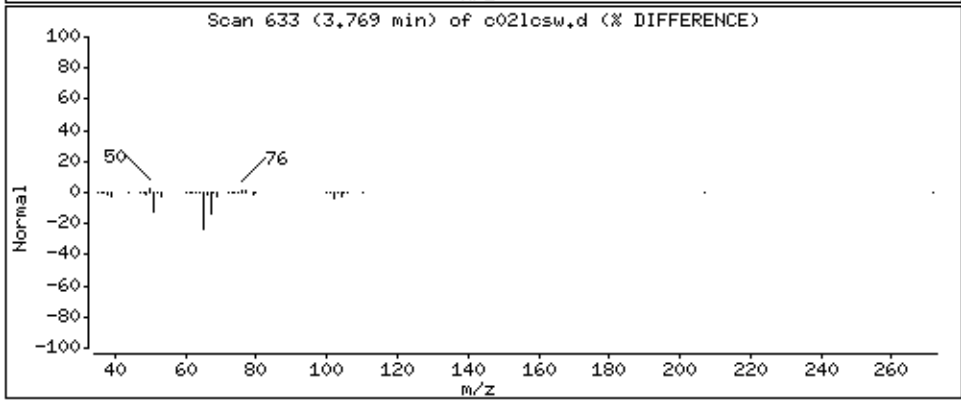
Concentration: 46.9 ppb

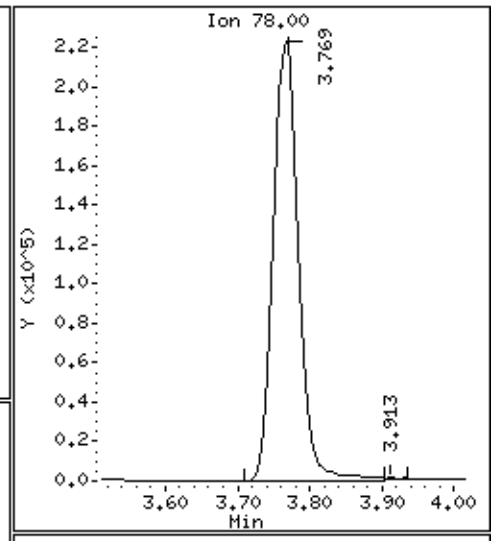
Review Code:

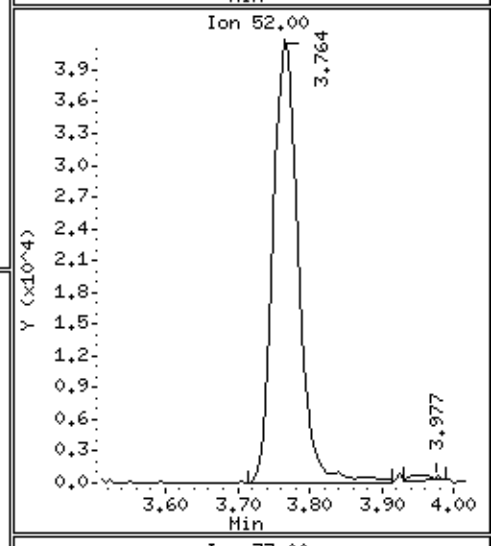


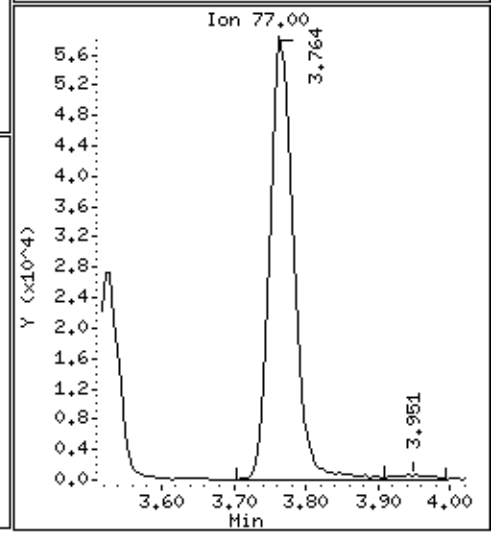












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

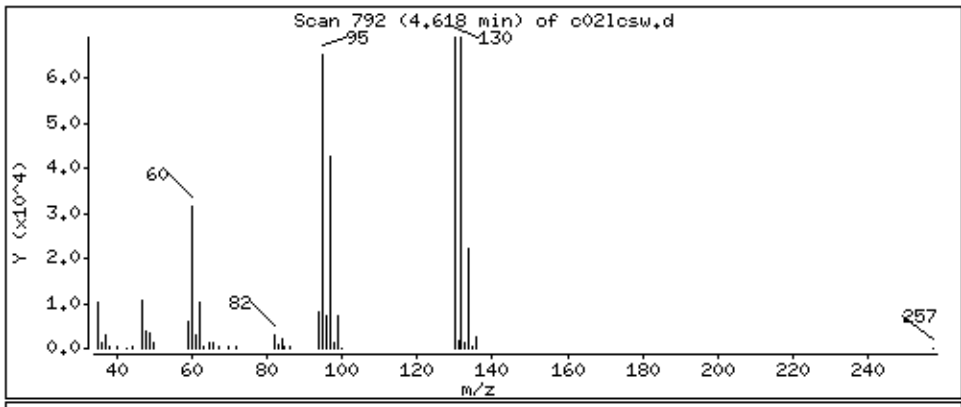
Column phase: DB-624

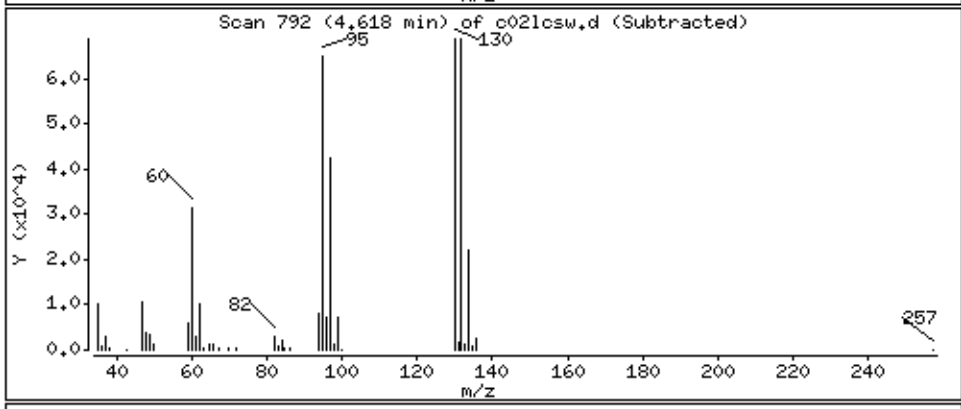
Column diameter: 0.18

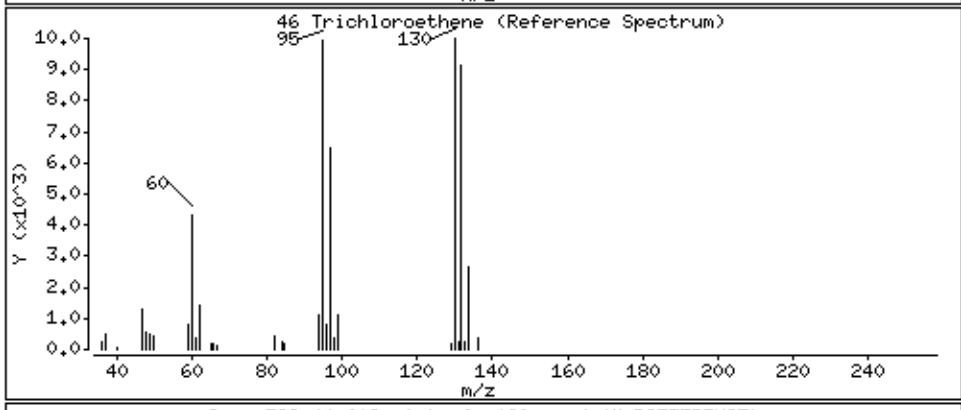
46 Trichloroethene

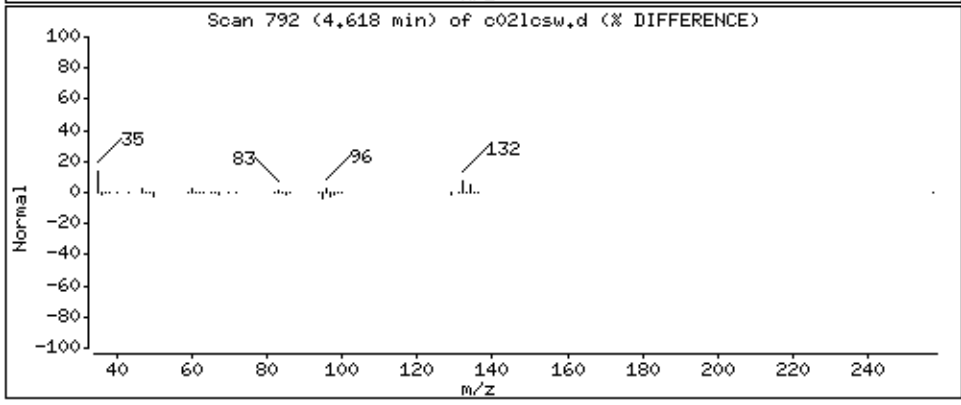
Concentration: 46.8 ppb

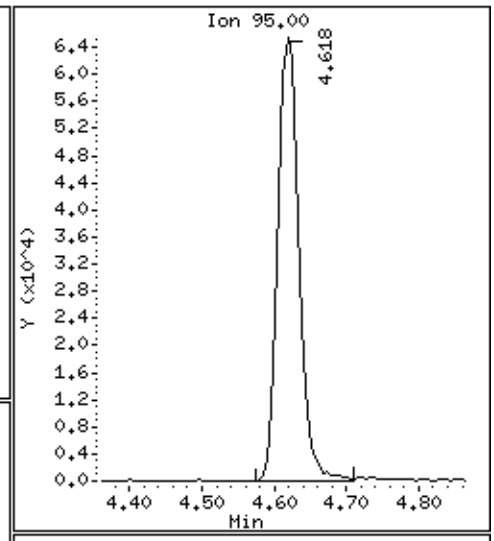
Review Code:

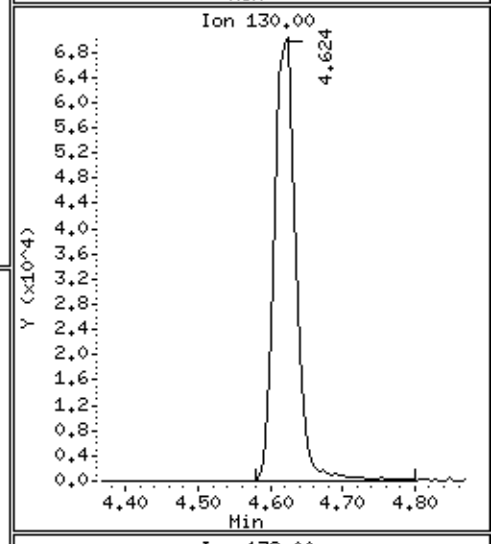


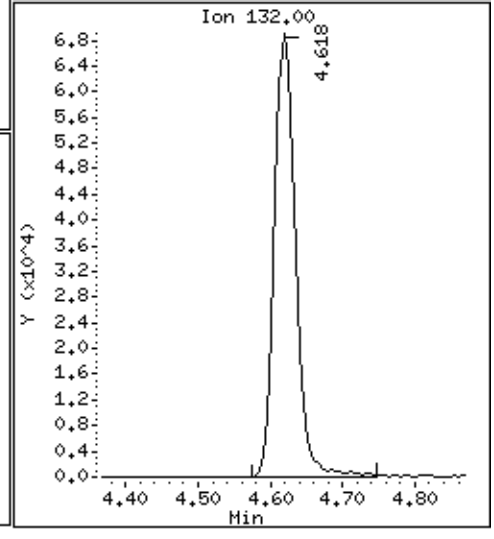












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

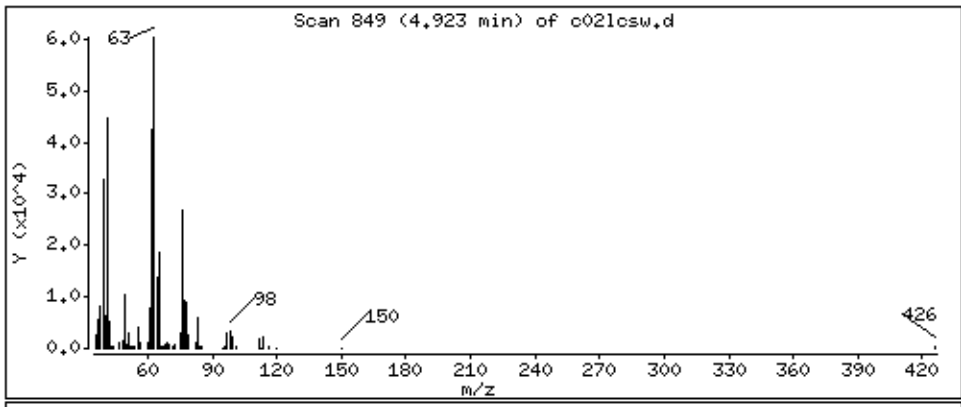
Column phase: DB-624

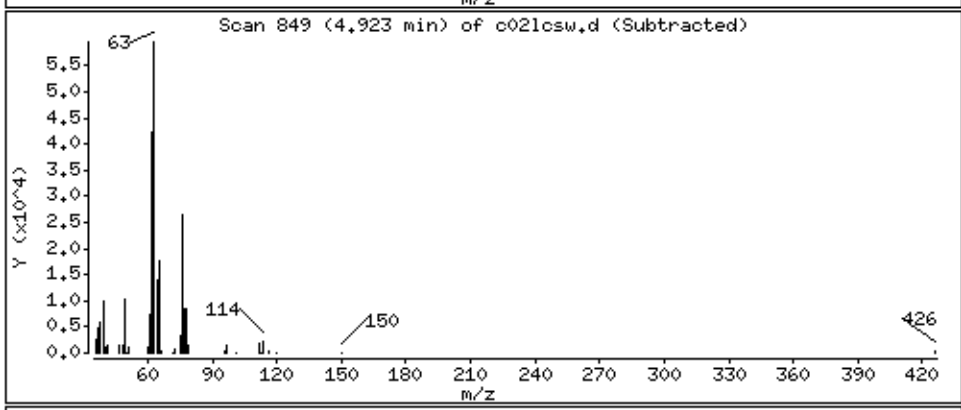
Column diameter: 0.18

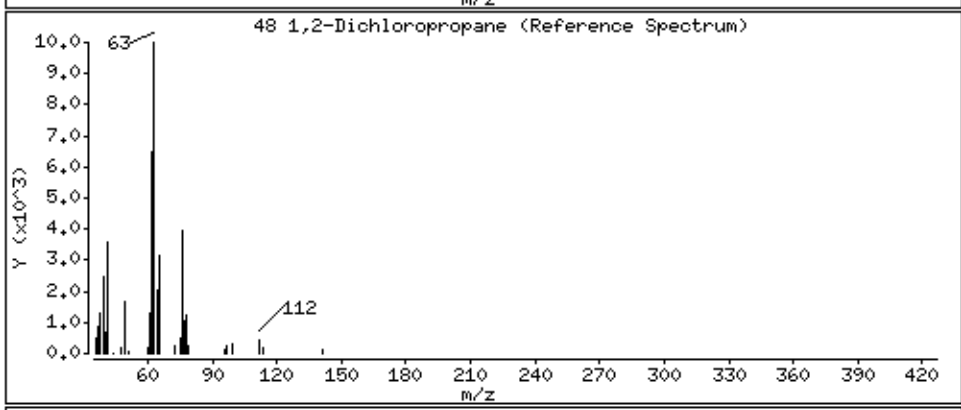
48 1,2-Dichloropropane

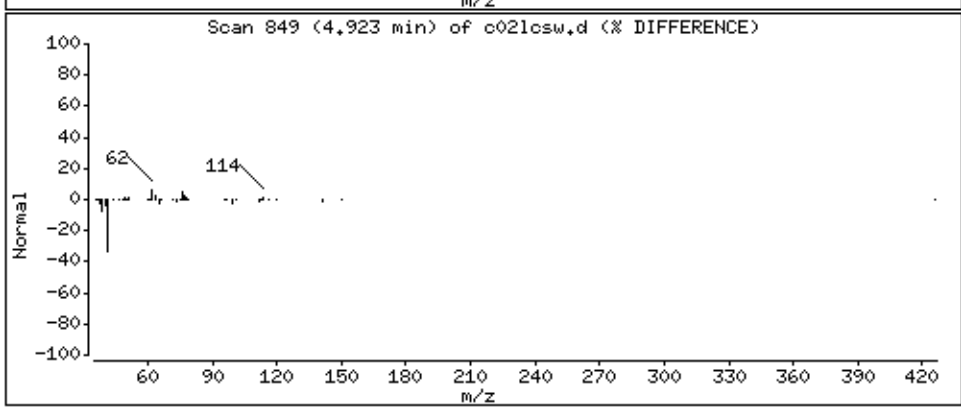
Concentration: 47.0 ppb

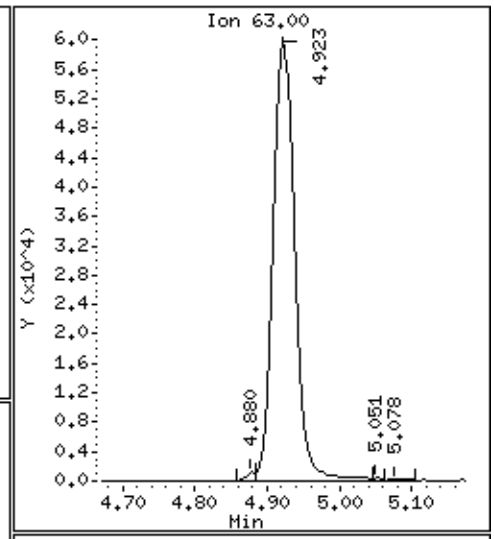
Review Code:

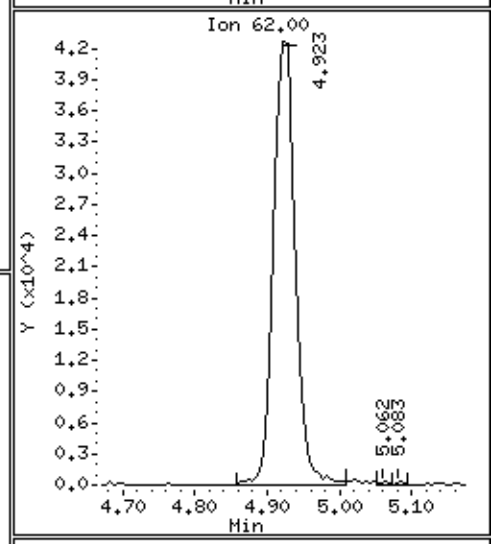


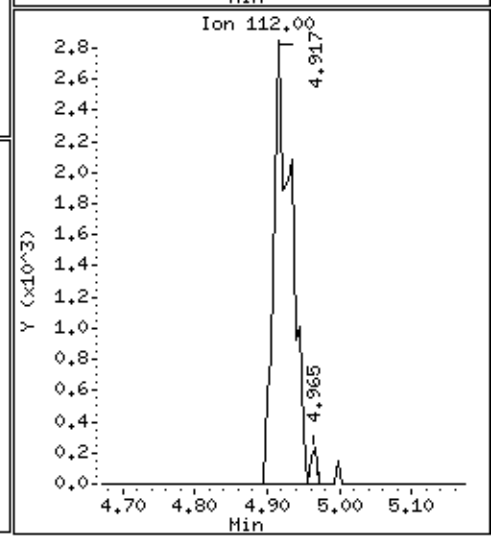












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

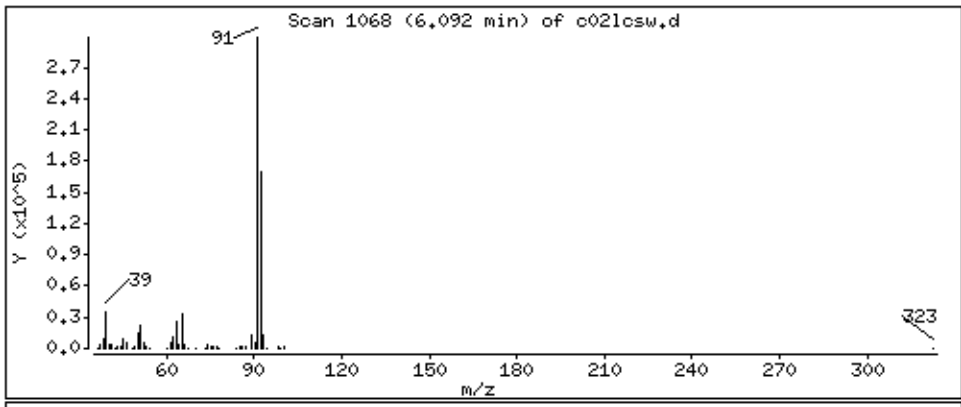
Column phase: DB-624

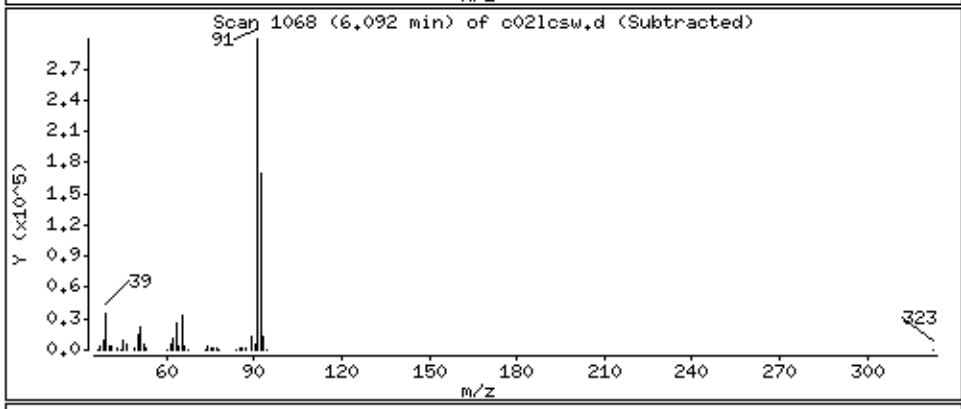
Column diameter: 0.18

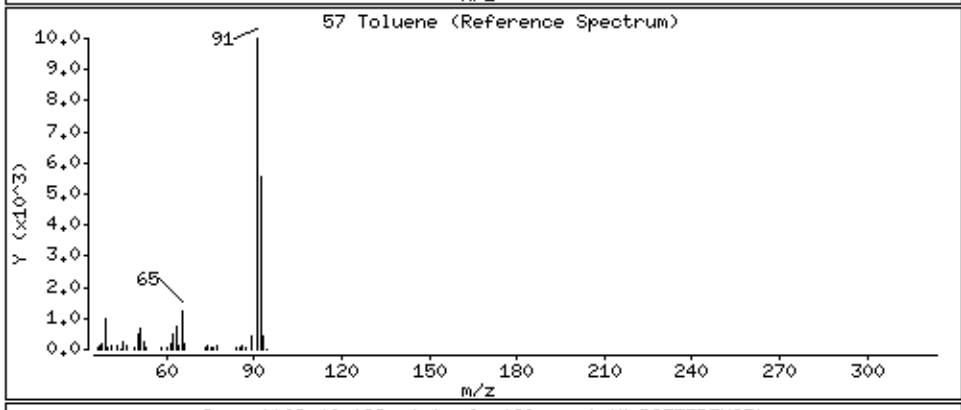
57 Toluene

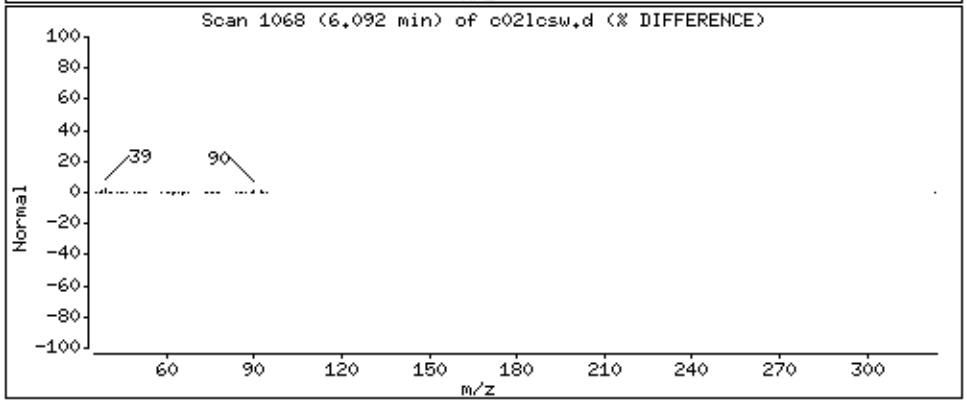
Concentration: 44.5 ppb

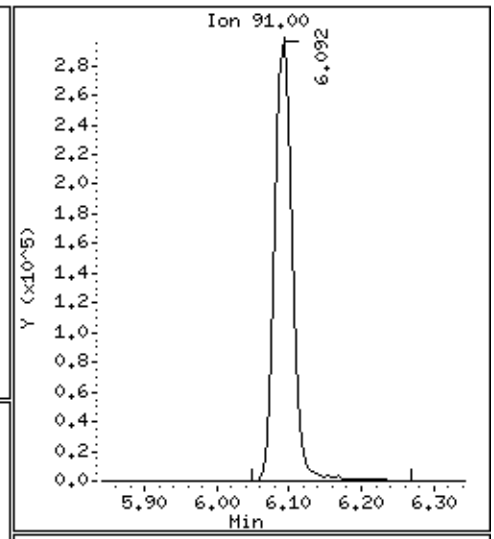
Review Code:

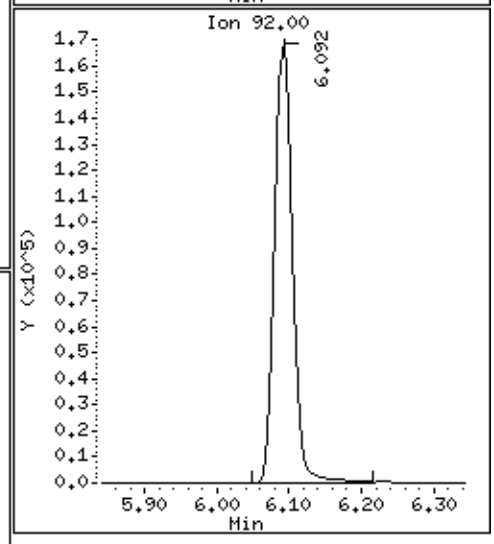












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

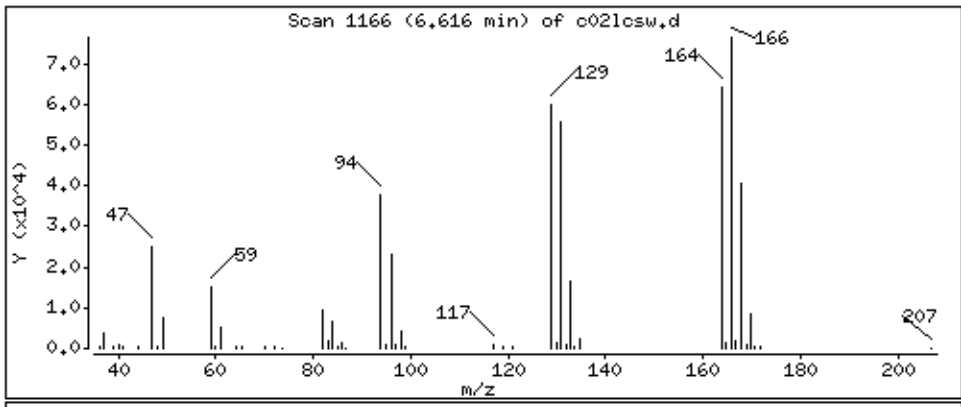
Column phase: DB-624

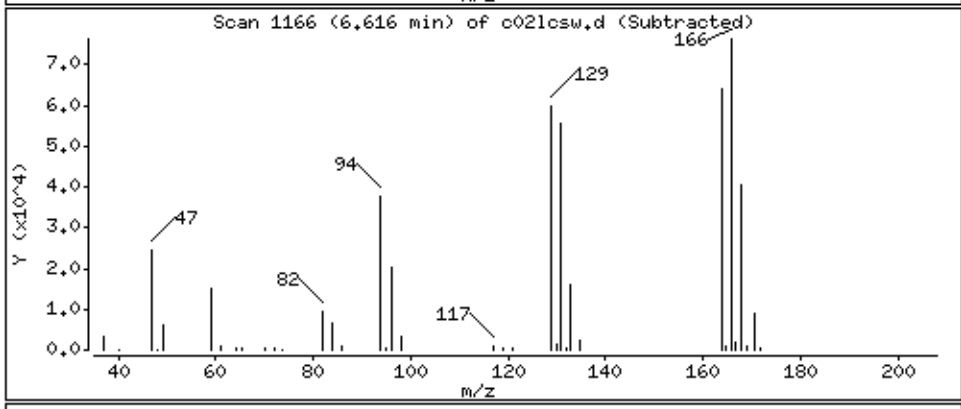
Column diameter: 0.18

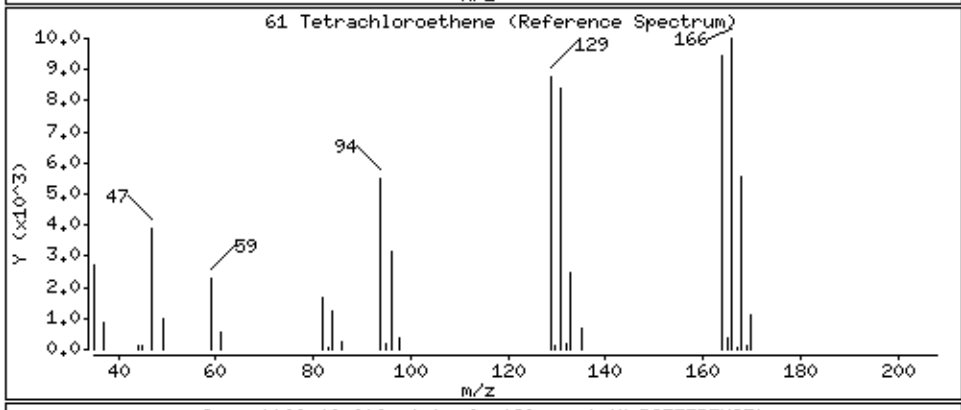
61 Tetrachloroethene

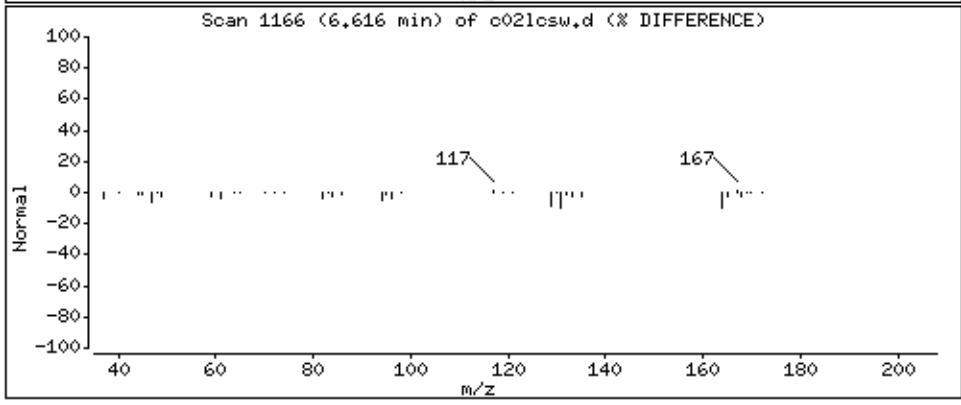
Concentration: 52.2 ppb

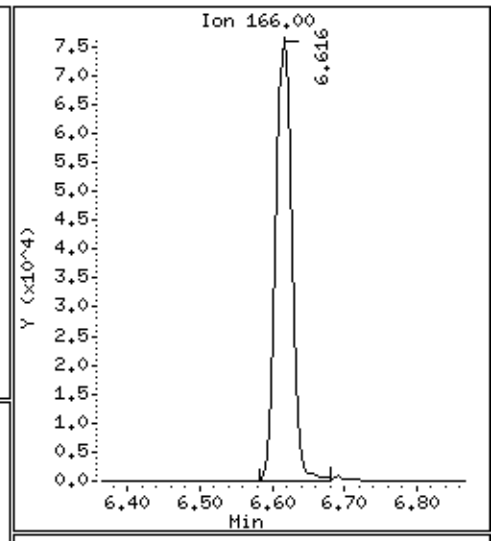
Review Code:

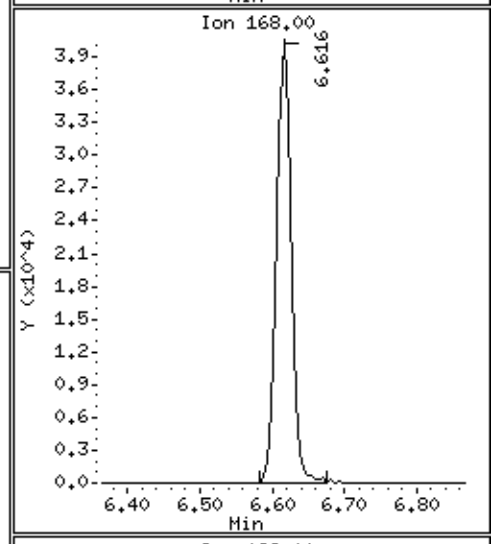


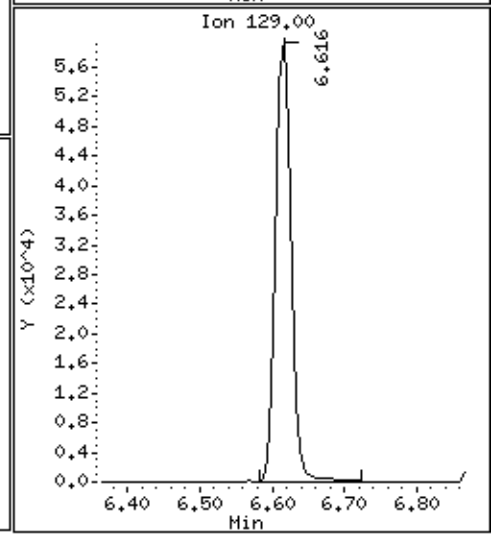












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

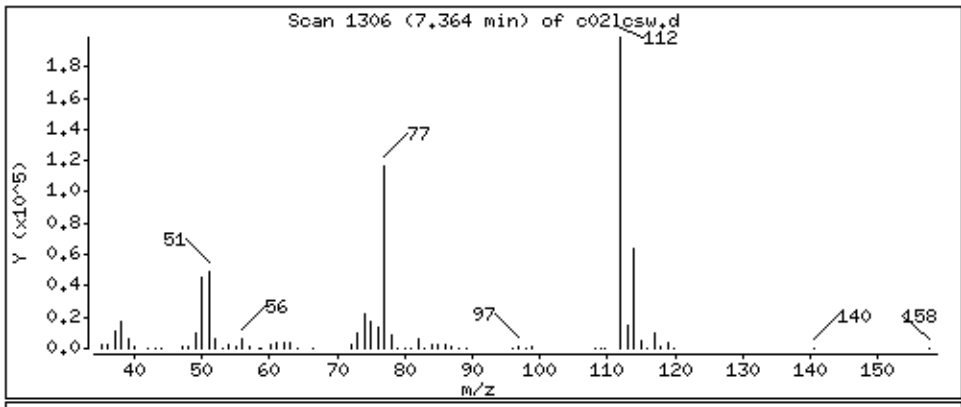
Column phase: DB-624

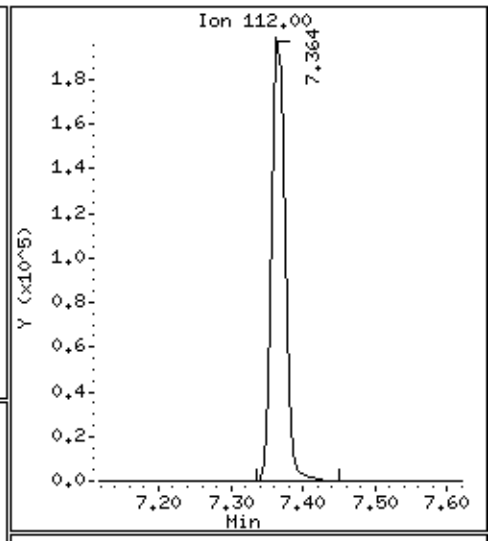
Column diameter: 0.18

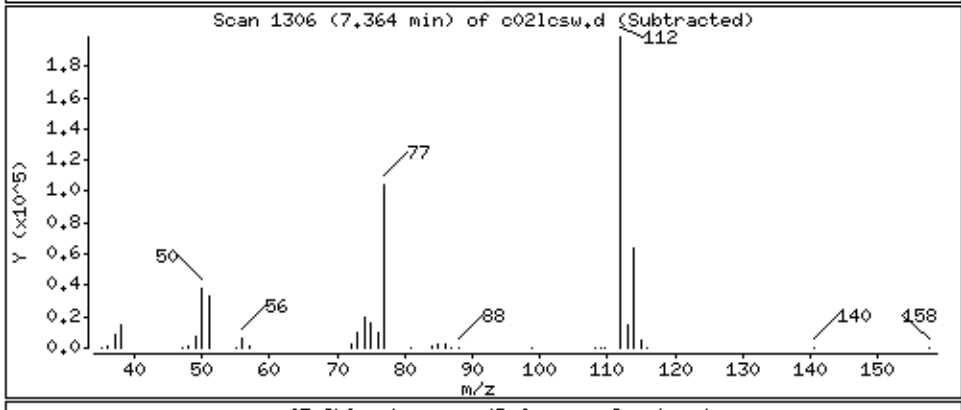
67 Chlorobenzene

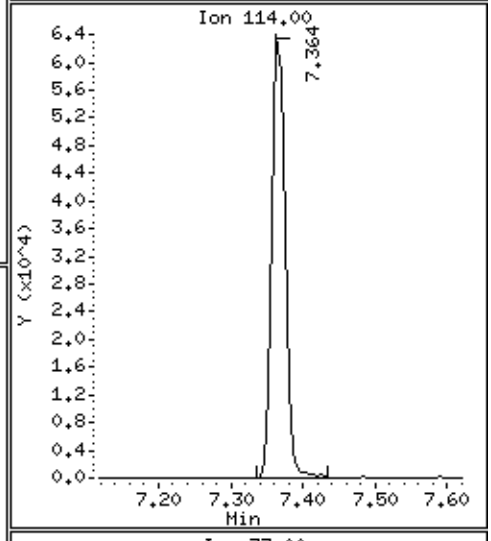
Concentration: 47.8 ppb

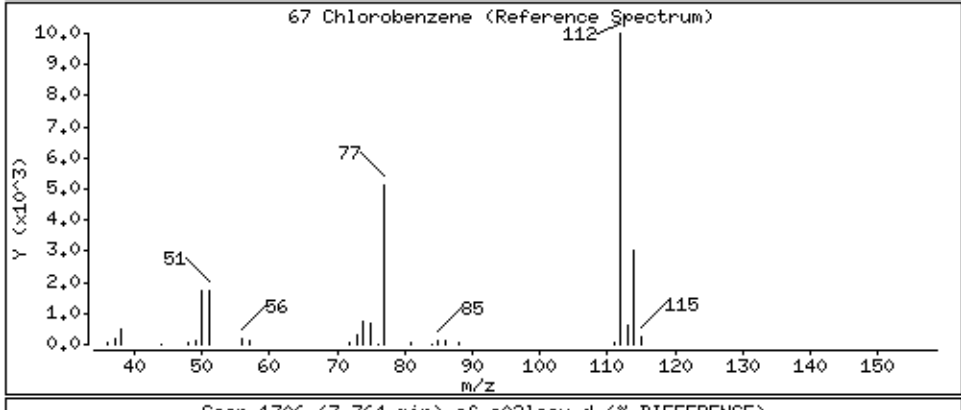
Review Code:

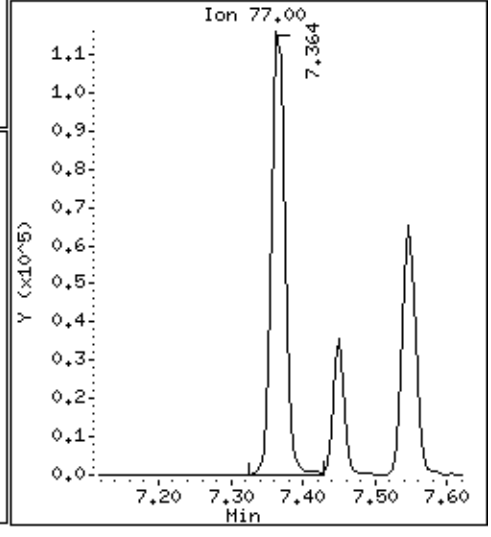


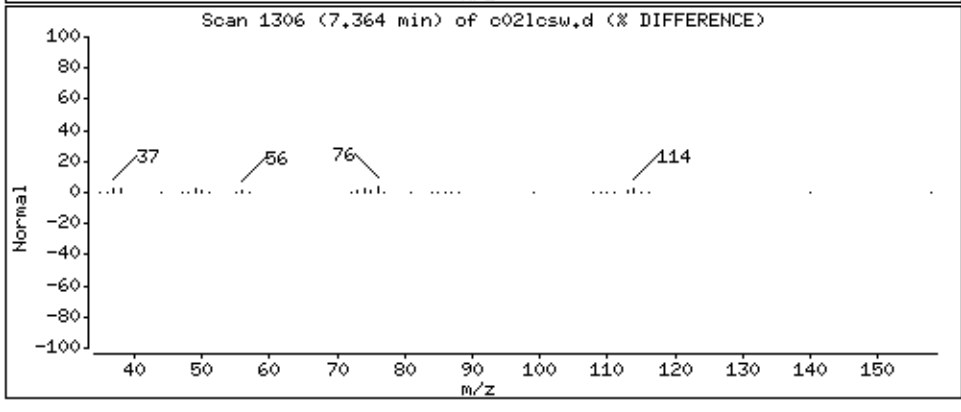












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

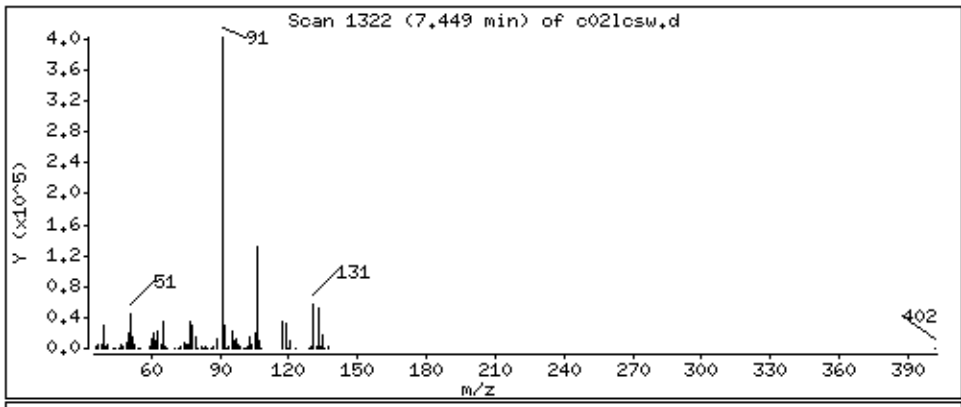
Column phase: DB-624

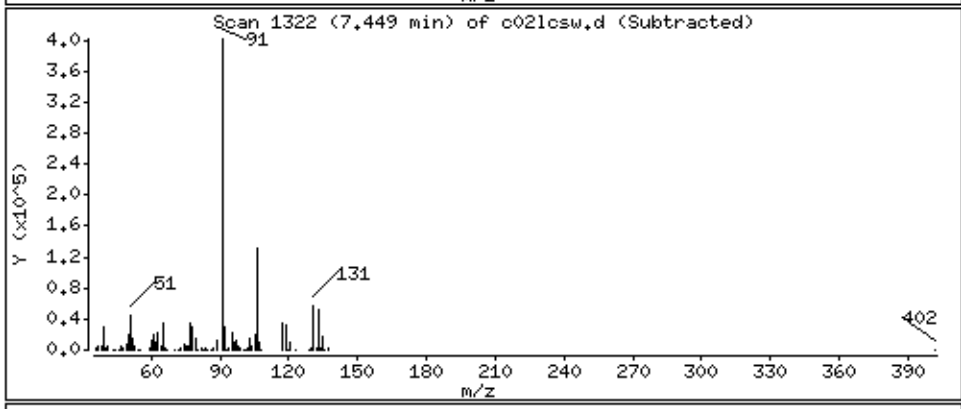
Column diameter: 0.18

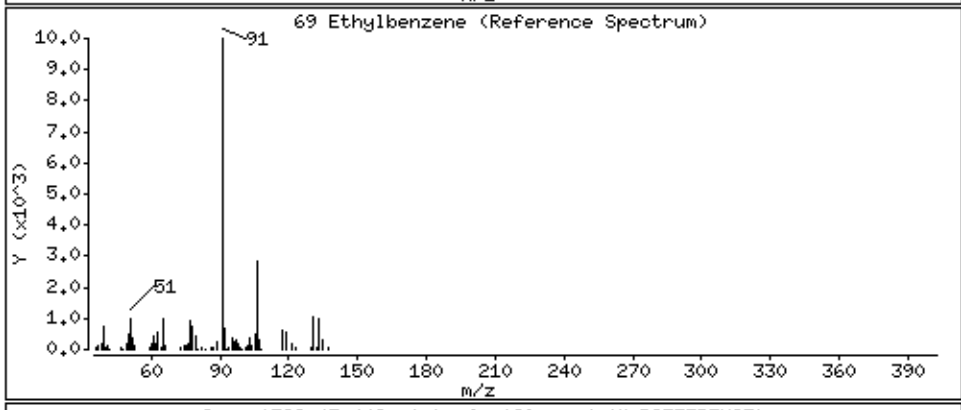
69 Ethylbenzene

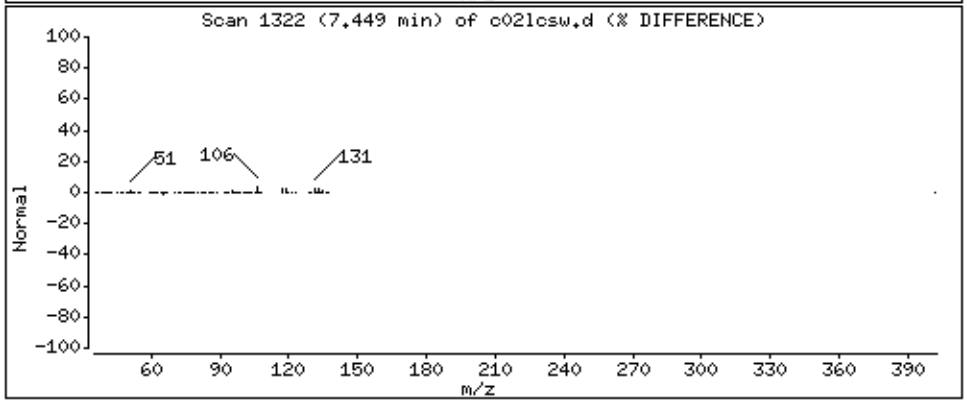
Concentration: 50.4 ppb

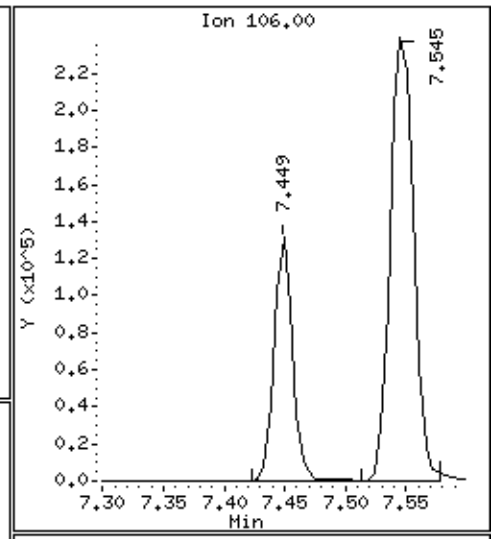
Review Code:

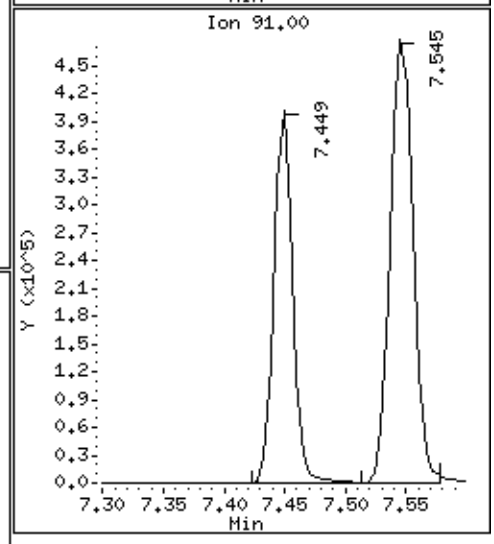












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

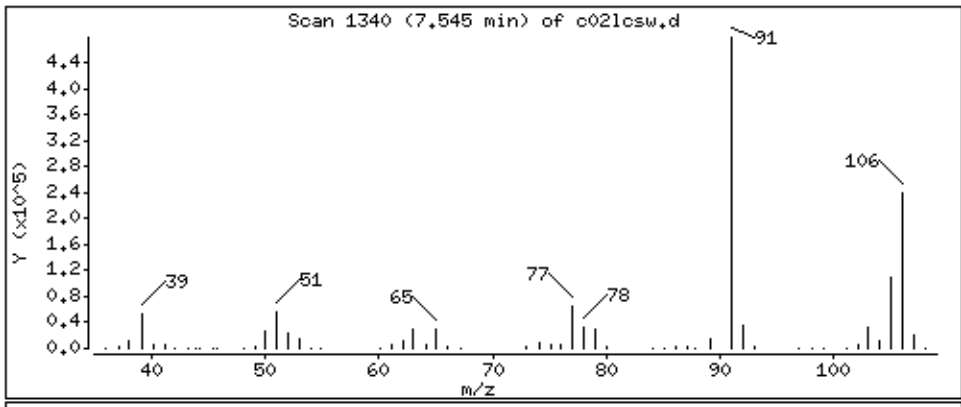
Column phase: DB-624

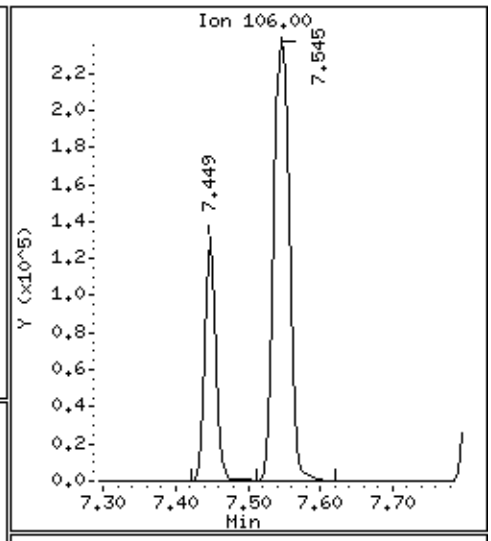
Column diameter: 0.18

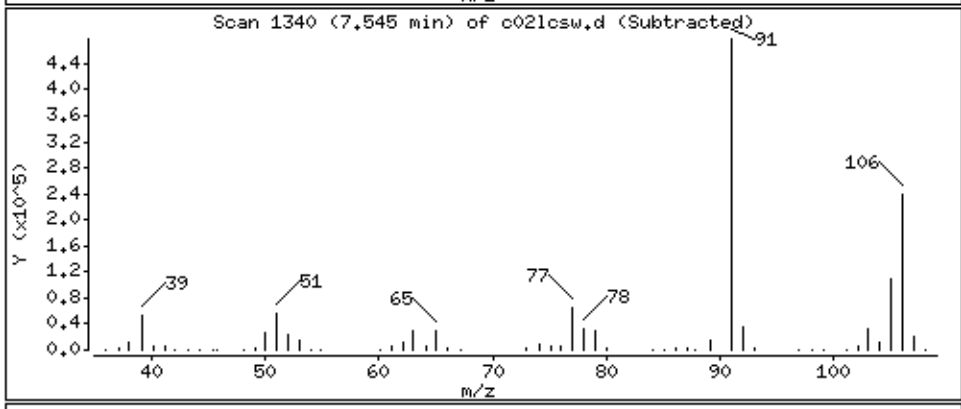
70 m&p-Xylene

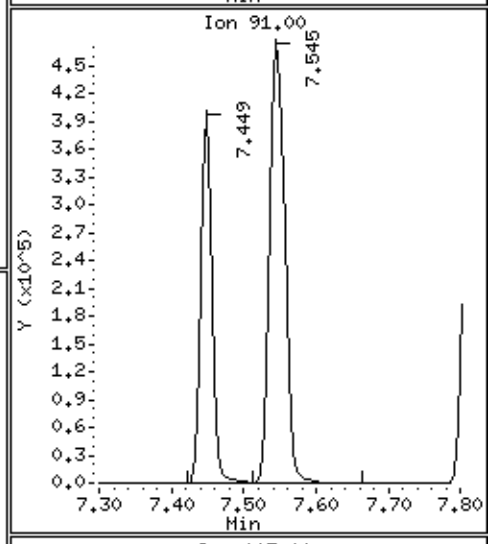
Concentration: 98.1 ppb

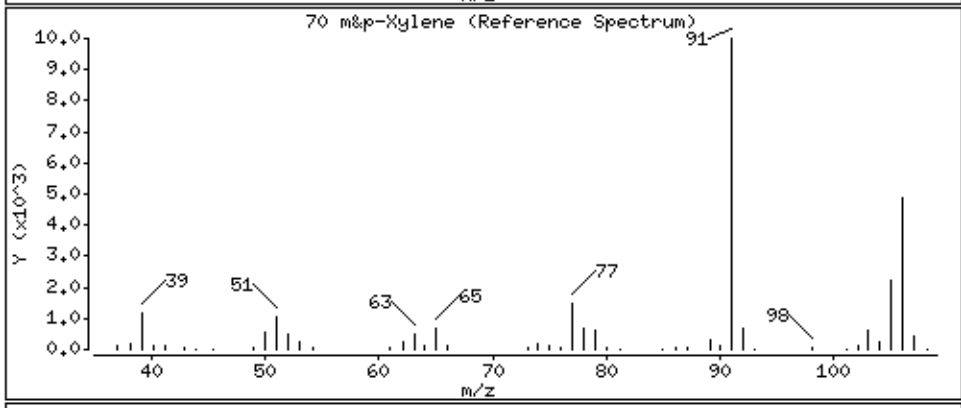
Review Code:

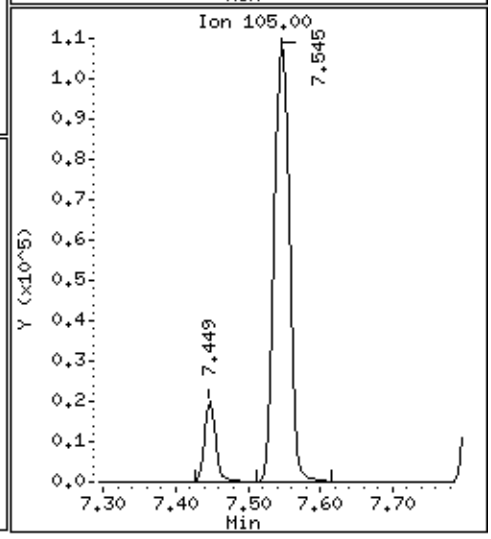


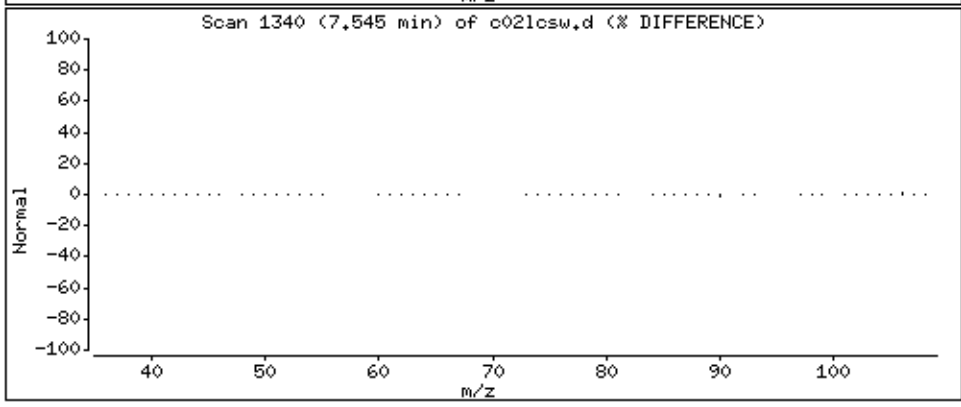












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

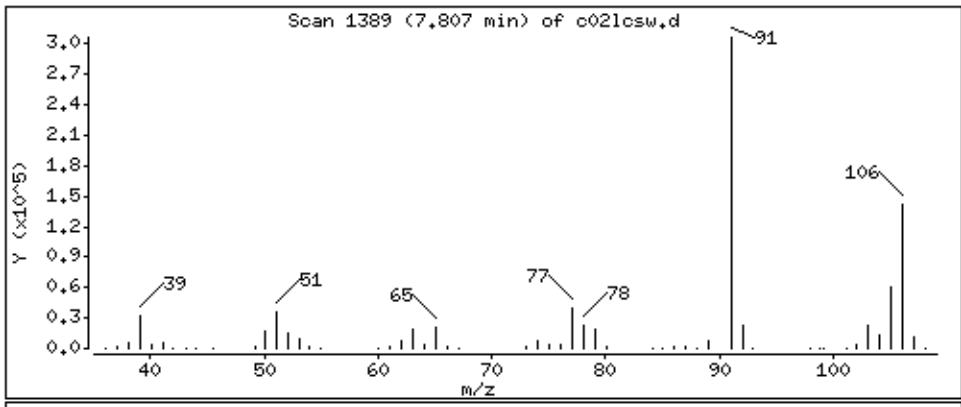
Column phase: DB-624

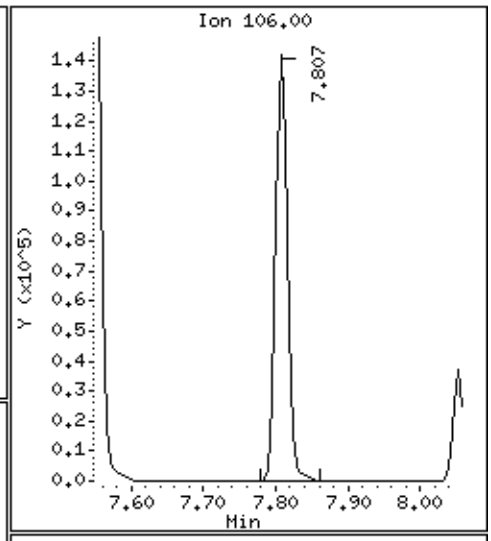
Column diameter: 0.18

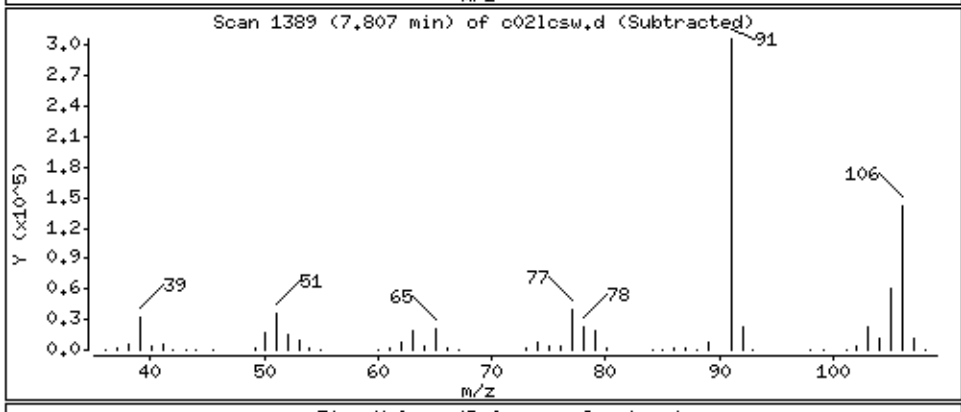
71 o-Xylene

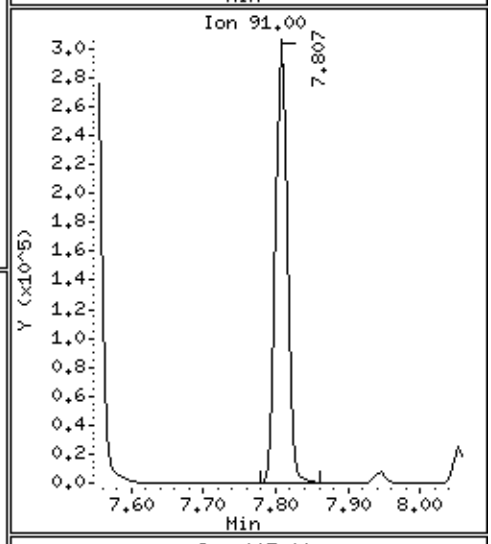
Concentration: 48.9 ppb

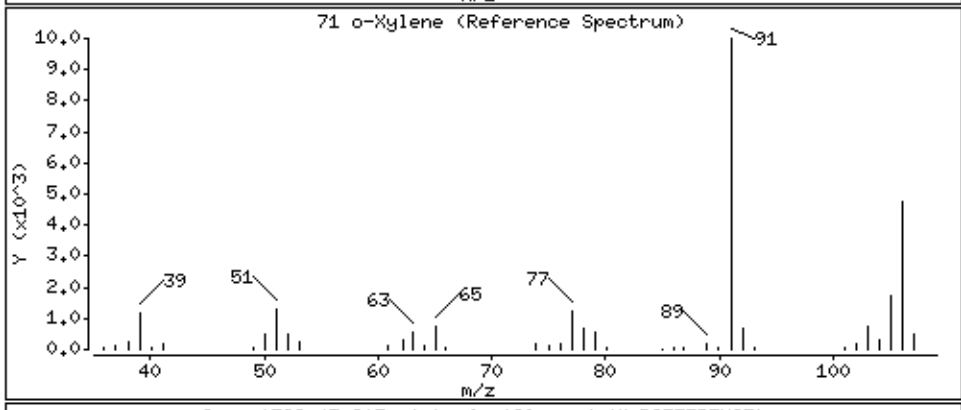
Review Code:

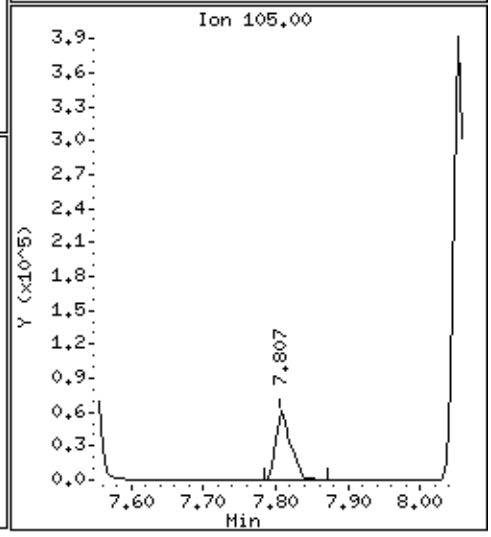


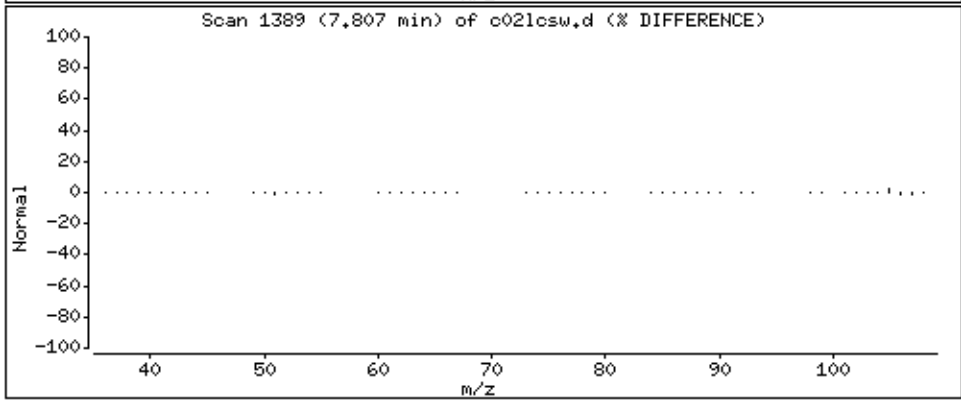












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

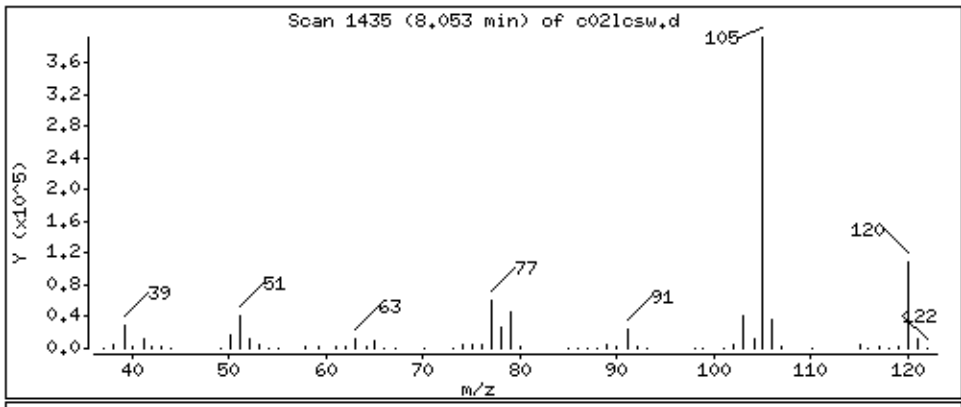
Column phase: DB-624

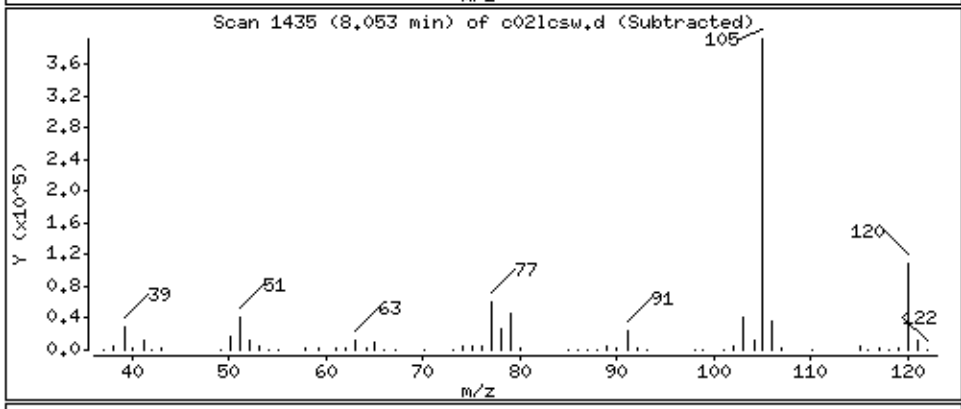
Column diameter: 0.18

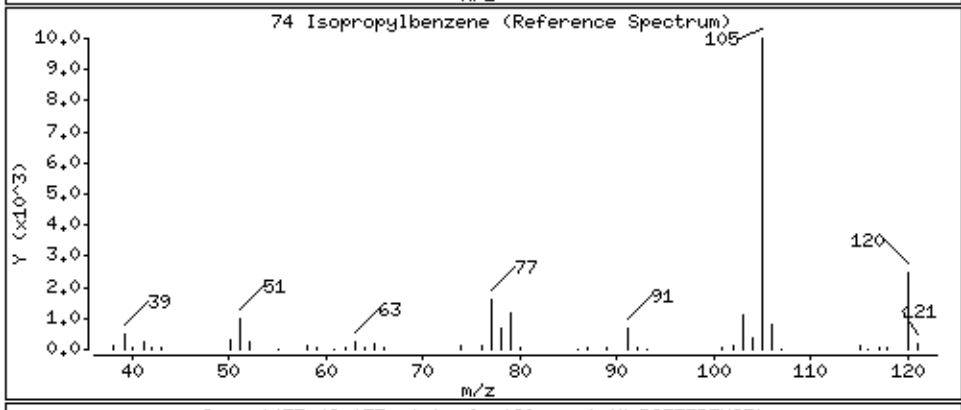
74 Isopropylbenzene

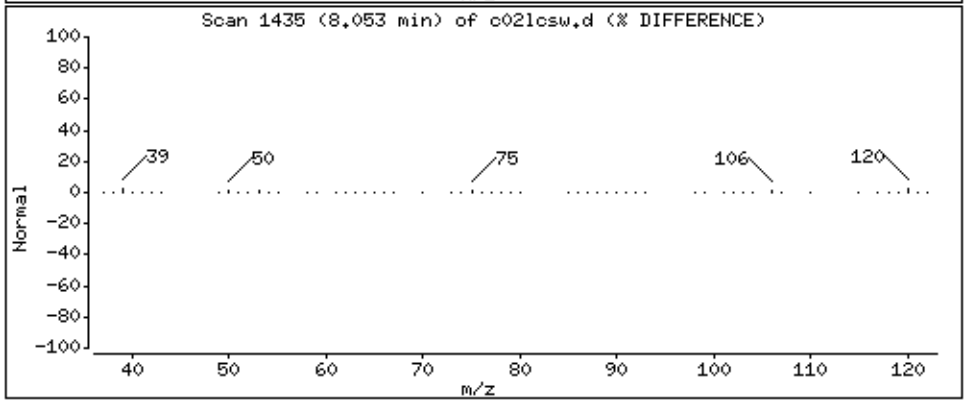
Concentration: 49.6 ppb

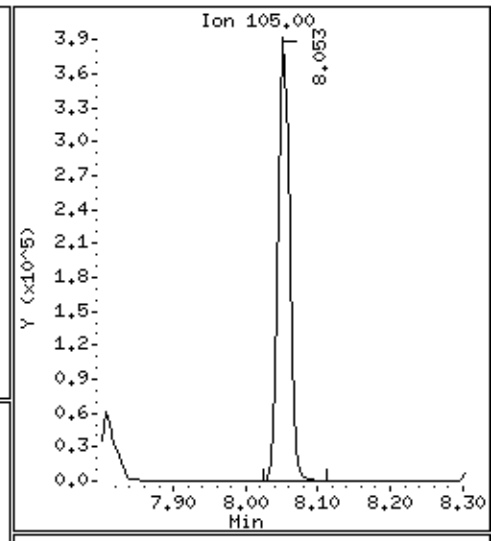
Review Code:

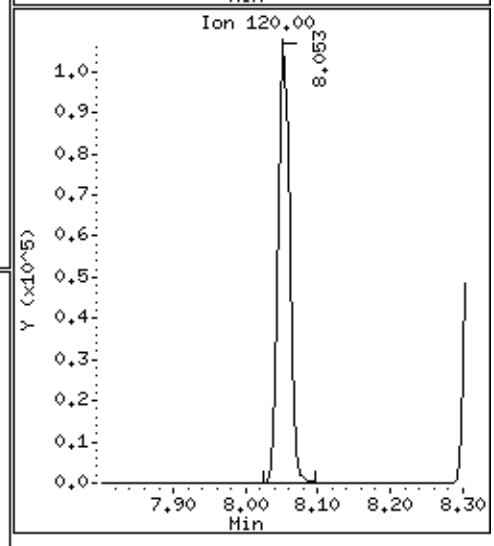












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

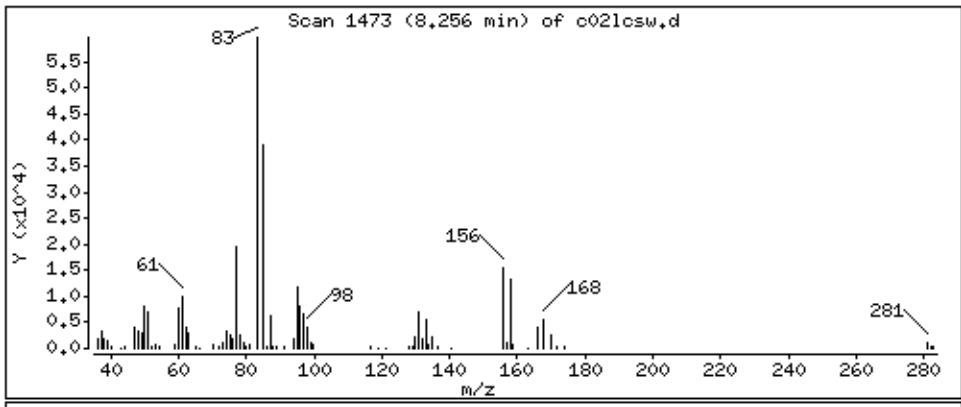
Column phase: DB-624

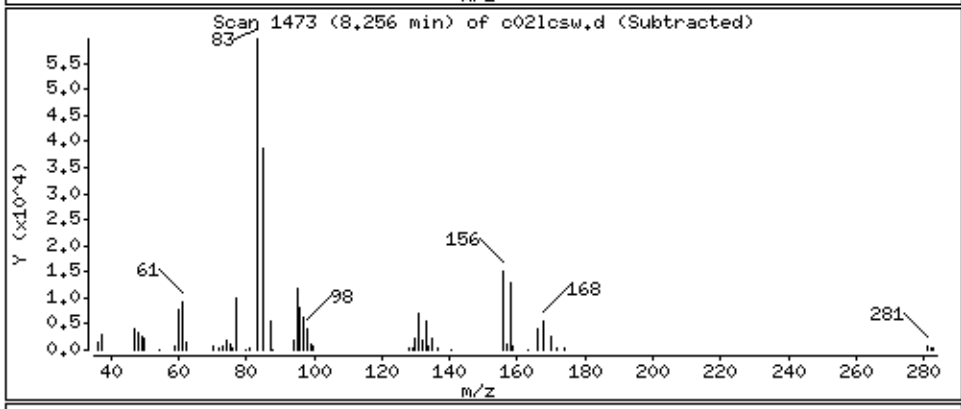
Column diameter: 0.18

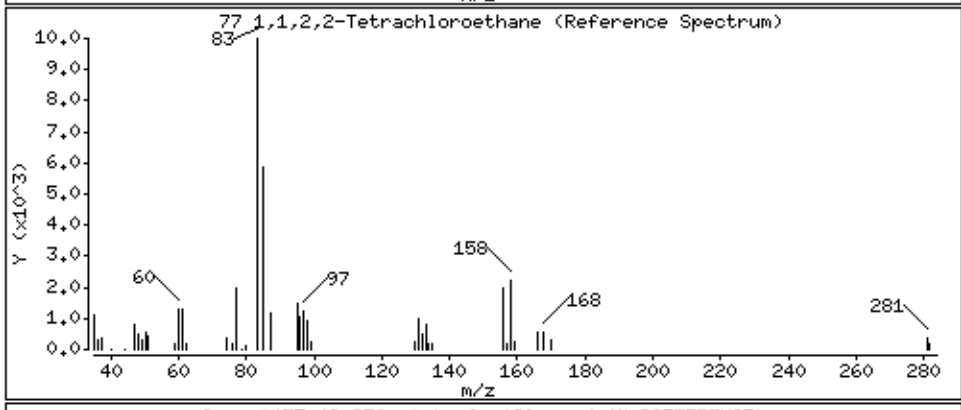
77 1,1,2,2-Tetrachloroethane

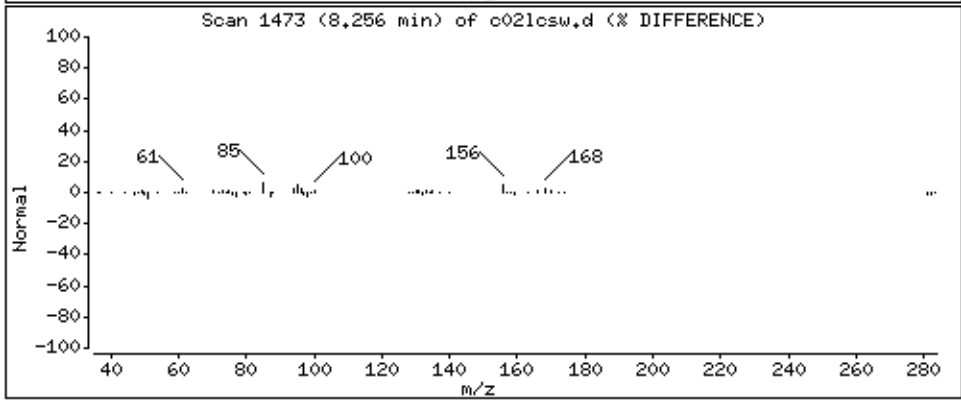
Concentration: 46.6 ppb

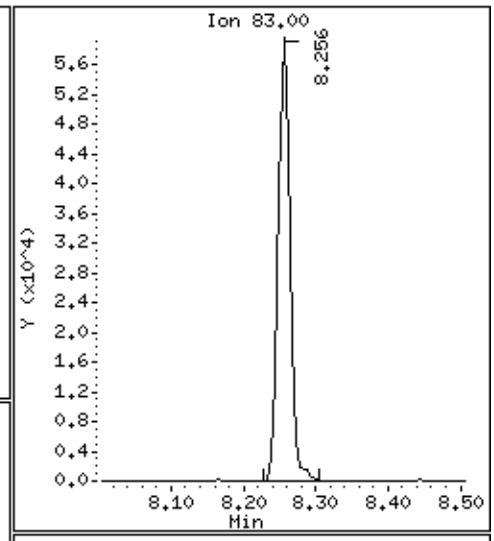
Review Code:

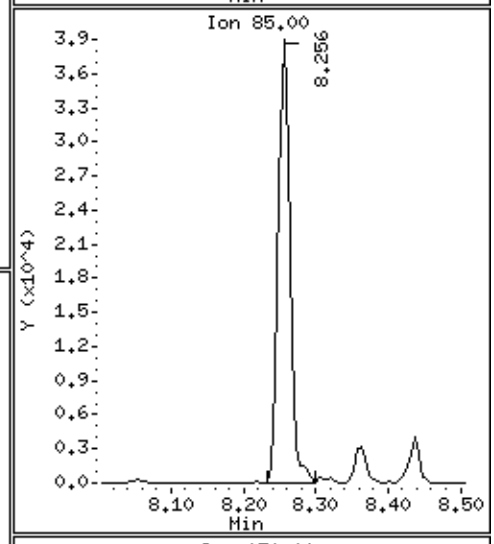


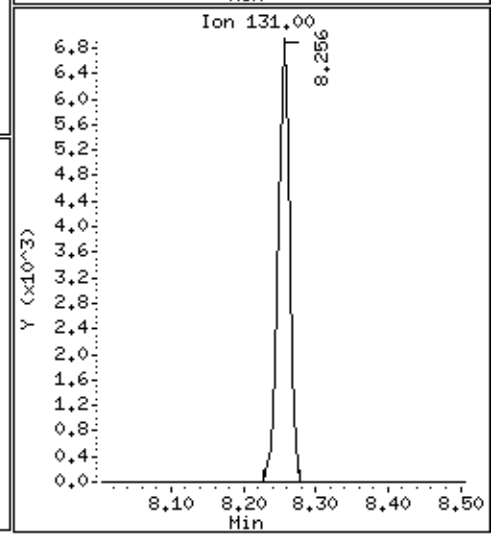












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

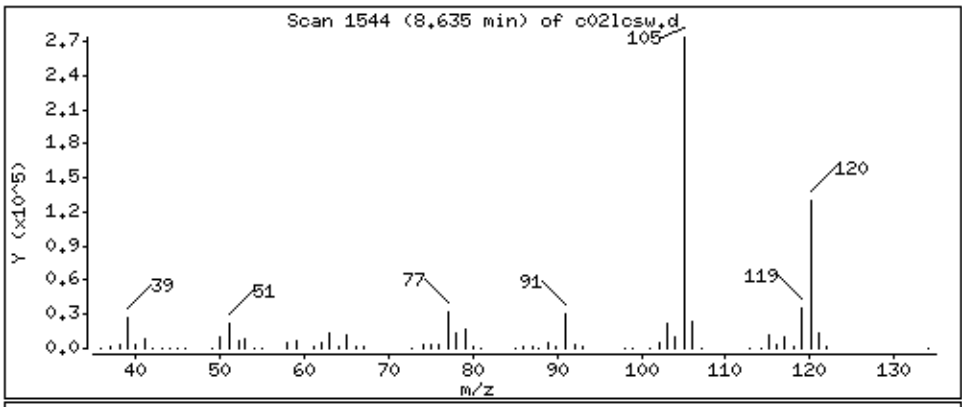
Column phase: DB-624

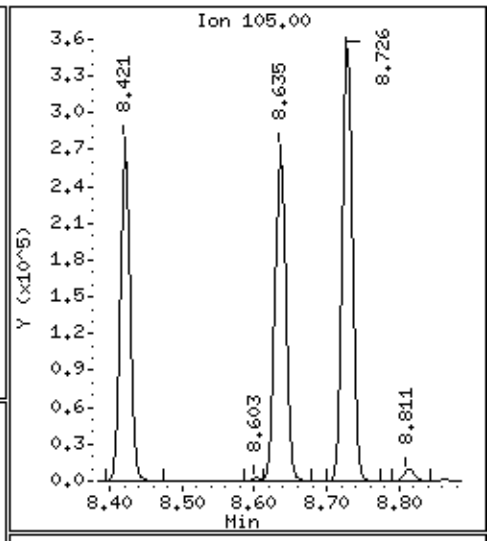
Column diameter: 0.18

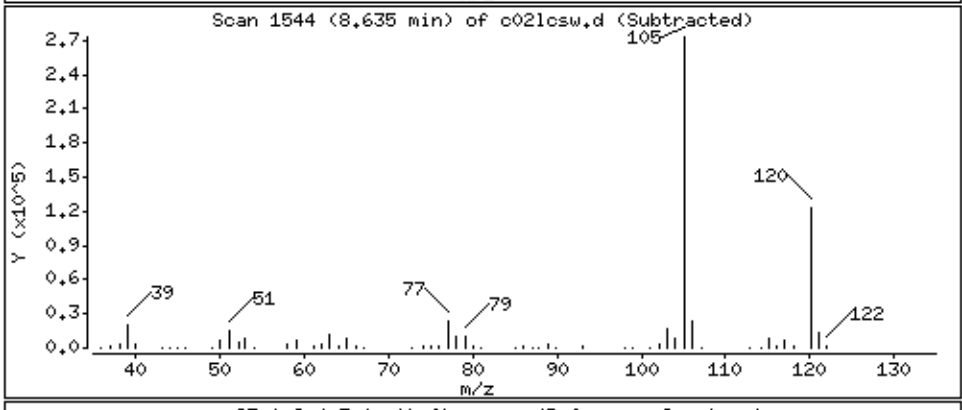
85 1,2,4-Trimethylbenzene

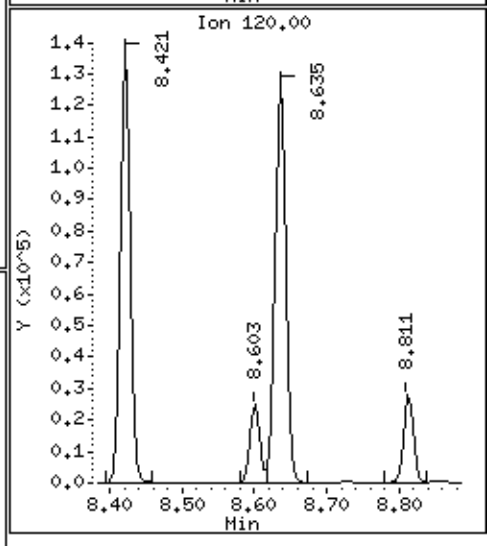
Concentration: 47.0 ppb

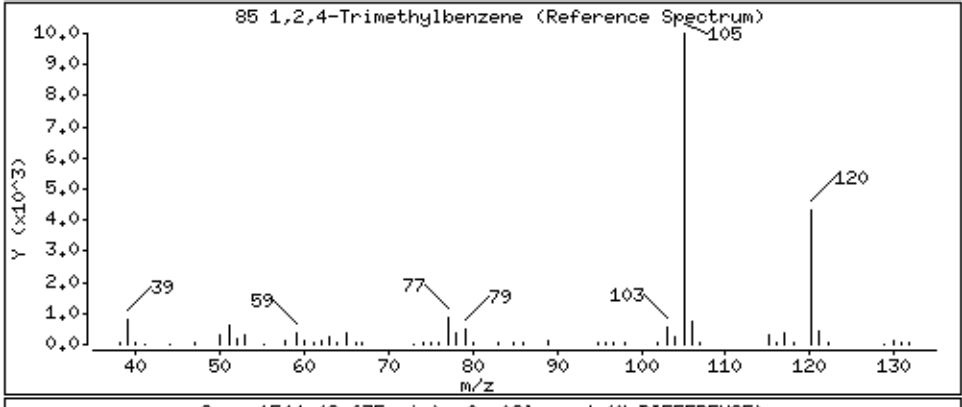
Review Code:

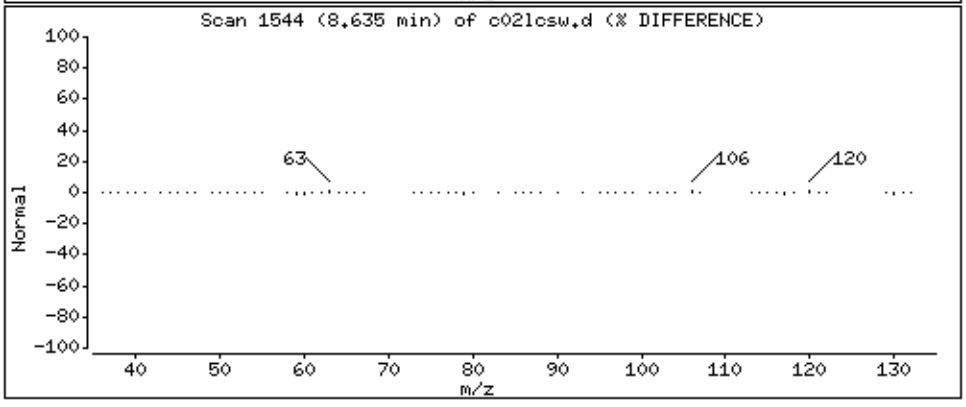












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c02lcsw.d

Date : 11-APR-2016 23:30

Client ID: MBLCS

Instrument: 50mv3a.i

Sample Info: 1516494,118316:5

Purge Volume: 5.0

Operator: jlz

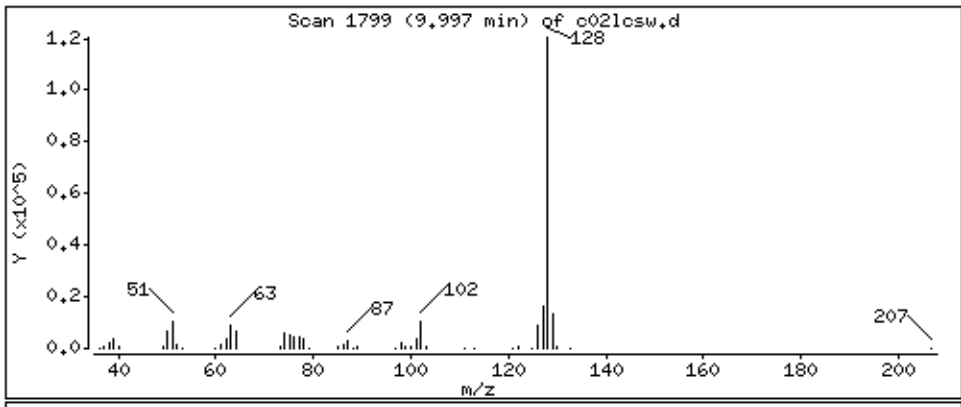
Column phase: DB-624

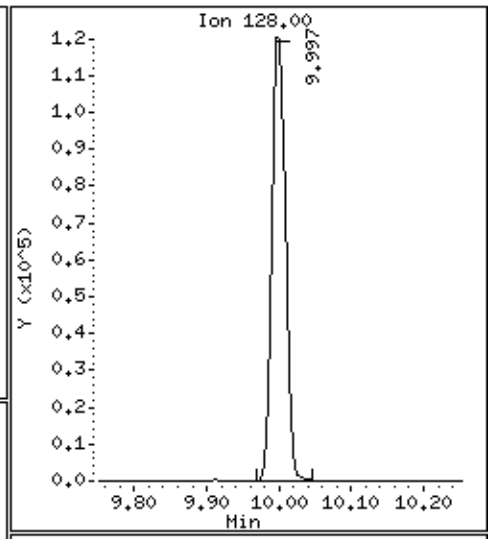
Column diameter: 0.18

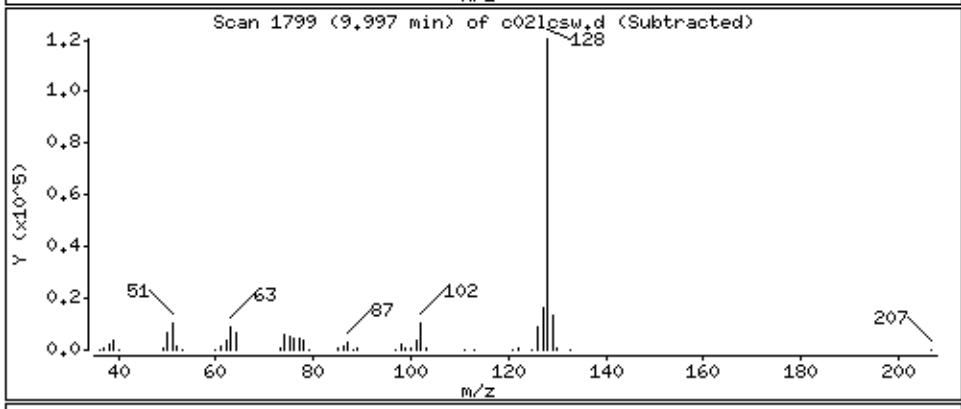
96 Naphthalene

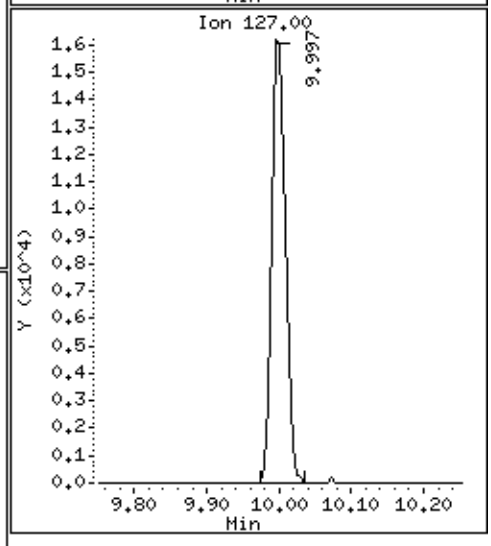
Concentration: 45.5 ppb

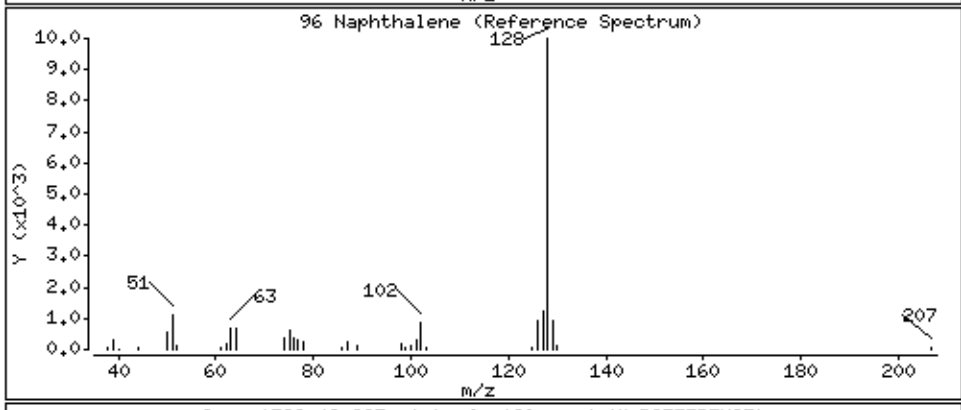
Review Code:

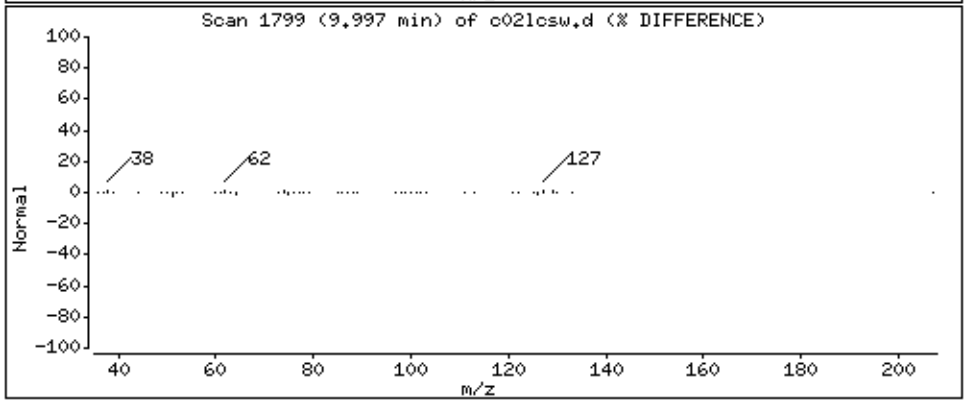












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c02lcsw.d
Injection Date: 11-APR-2016 23:30
Instrument: 50mv3a.i
Lab Sample ID: 1516494
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 09:06 Lab Sample ID: 1516495

Date Analyzed: 04/12/2016 09:06 Lab File ID: A041116.B\C20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	48.5	
108-90-7	Chlorobenzene	48.0	
67-66-3	Chloroform	48.8	
75-35-4	1,1-Dichloroethene	50.9	
156-59-2	cis-1,2-Dichloroethene	49.7	
156-60-5	trans-1,2-Dichloroethene	46.2	
78-87-5	1,2-Dichloropropane	47.8	
100-41-4	Ethylbenzene	50.2	
98-82-8	Isopropylbenzene (Cumene)	50.1	
1634-04-4	Methyl-tert-butyl ether	45.8	
79-34-5	1,1,2,2-Tetrachloroethane	45.2	
127-18-4	Tetrachloroethene	49.6	
108-88-3	Toluene	43.8	
71-55-6	1,1,1-Trichloroethane	50.6	
79-01-6	Trichloroethene	49.0	
75-01-4	Vinyl chloride	49.5	
1330-20-7	Xylene (Total)	144	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d
Lab Smp Id: 1516495 Client Smp ID: MW-0503-S1(033016)P
Inj Date : 12-APR-2016 09:06
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516495,118316:5
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 87 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

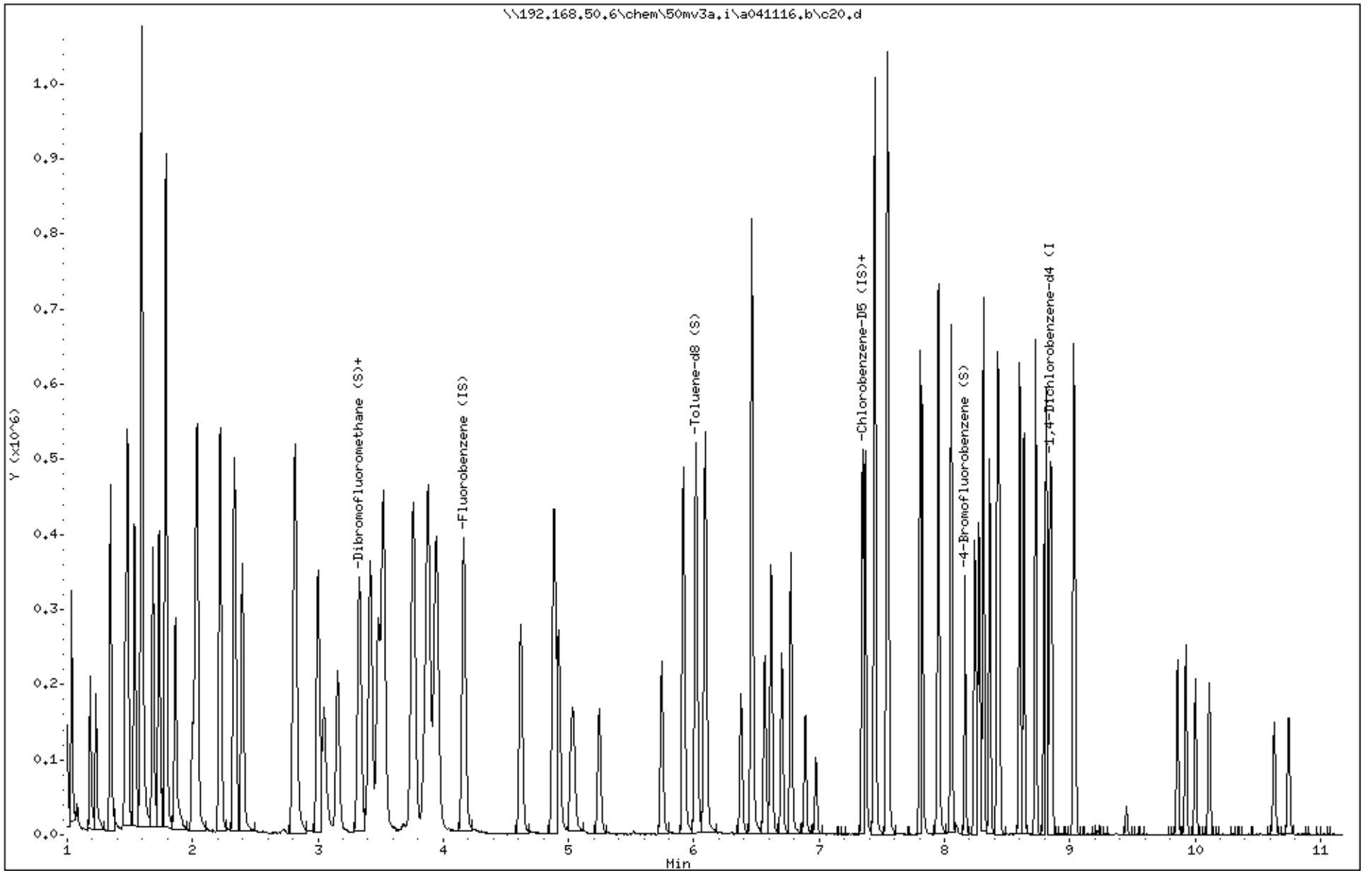
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.037	1.033	(0.249)	160305	49.5280	49.5	
	11 1,1-Dichloroethene	96	1.592	1.594	(0.382)	116445	50.9444	50.9	
	20 Methyl-tert-butyl ether	73	2.025	2.027	(0.486)	205038	45.7568	45.8	
	22 1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	97001	46.1673	46.2	
	28 1,2-Dichloroethene (cis)	96	2.816	2.812	(0.676)	103628	49.6600	49.7	
	34 Chloroform	83	3.157	3.159	(0.758)	162046	48.8354	48.8	
	36 1,1,1-Trichloroethane	97	3.334	3.330	(0.800)	144977	50.5590	50.6	
$	35 Dibromofluoromethane (S)	113	3.328	3.330	(0.799)	88309	51.4605	51.5	
	41 Benzene	78	3.761	3.763	(0.903)	383114	48.5194	48.5	
*	45 Fluorobenzene (IS)	96	4.167	4.163	(1.000)	380861	50.0000		
	46 Trichloroethene	95	4.615	4.612	(1.108)	94508	48.9573	49.0	
	48 1,2-Dichloropropane	63	4.920	4.922	(1.181)	86195	47.7855	47.8	
$	56 Toluene-d8 (S)	98	6.015	6.017	(0.819)	308601	50.4129	50.4	
	57 Toluene	91	6.090	6.091	(0.829)	343807	43.8106	43.8	
	61 Tetrachloroethene	166	6.618	6.615	(0.901)	77399	49.6464	49.6	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	178184	50.0000		
	67 Chlorobenzene	112	7.366	7.368	(1.003)	174034	48.0099	48.0	
	69 Ethylbenzene	106	7.446	7.448	(1.014)	103106	50.2001	50.2	
	70 m&p-Xylene	106	7.548	7.544	(1.028)	240604	96.0842	96.1	
	71 o-Xylene	106	7.809	7.806	(1.063)	107012	48.2371	48.2	
	74 Isopropylbenzene	105	8.050	8.052	(1.096)	288266	50.1135	50.1	
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	66268	45.0114	45.0	
	77 1,1,2,2-Tetrachloroethane	83	8.258	8.255	(0.934)	45399	45.1868	45.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	176011	42.9369	42.9	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	62991	50.0000		
96 Naphthalene	128	9.999	10.001	(1.131)	104931	43.1750	43.2	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d
Date : 12-APR-2016 09:06
Client ID: MW-0503-S1(033016)P
Sample Info: 1516495,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

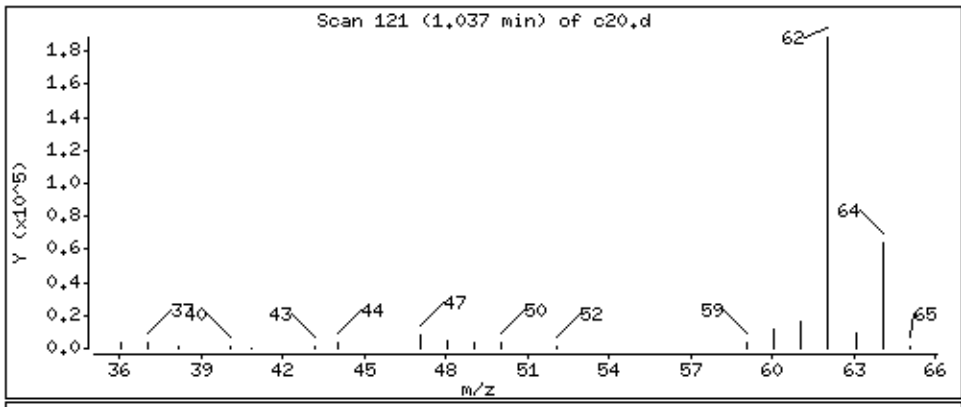
Column phase: DB-624

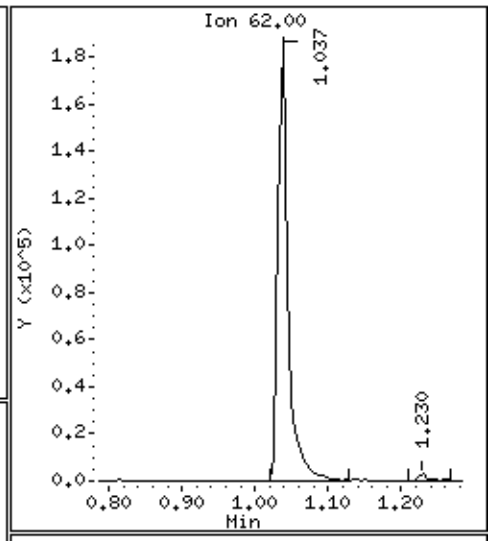
Column diameter: 0.18

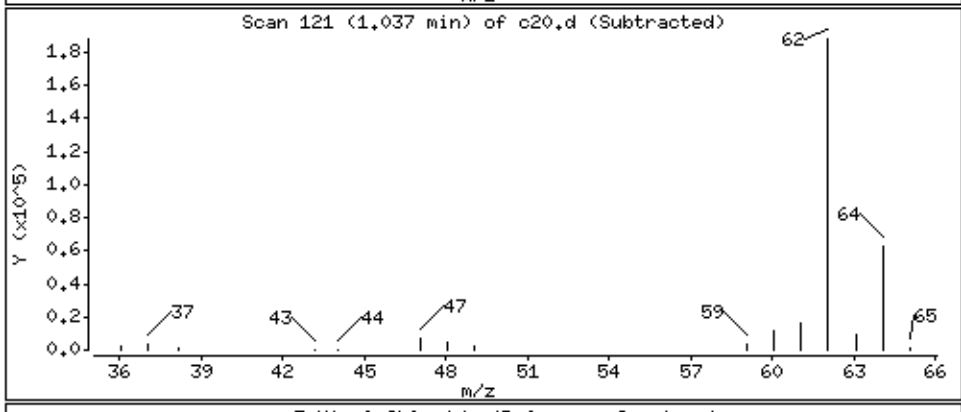
3 Vinyl Chloride

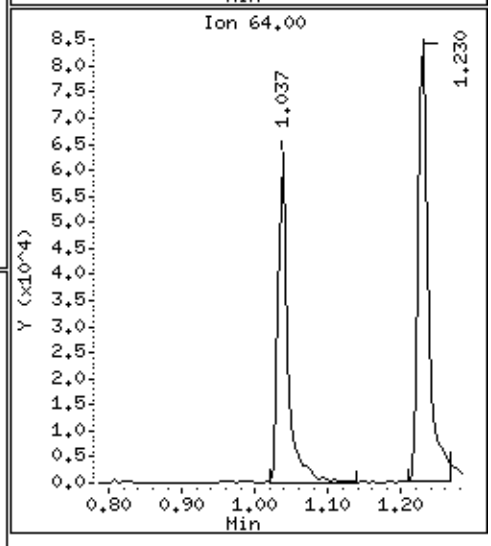
Concentration: 49.5 ppb

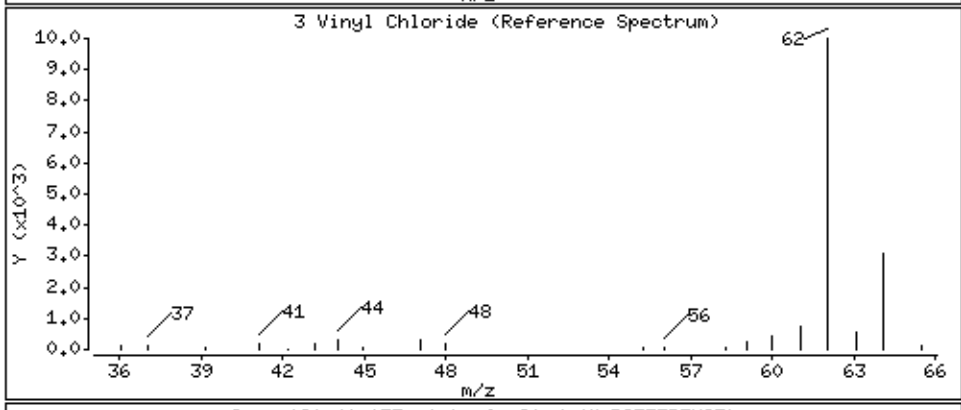
Review Code:

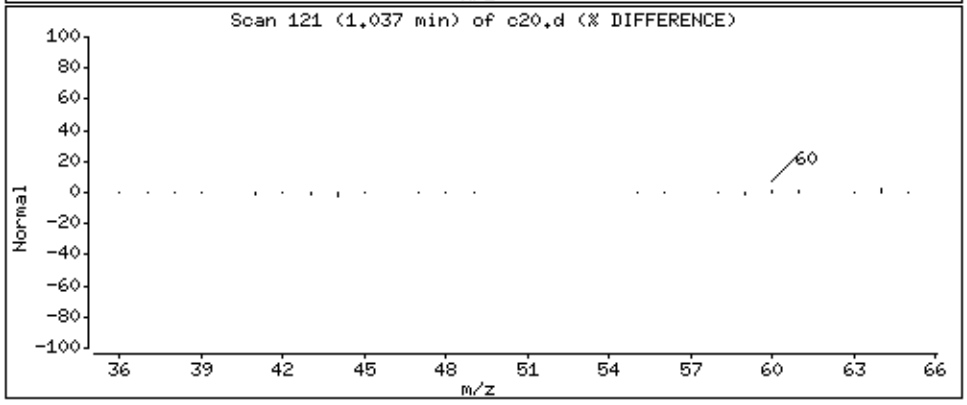












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

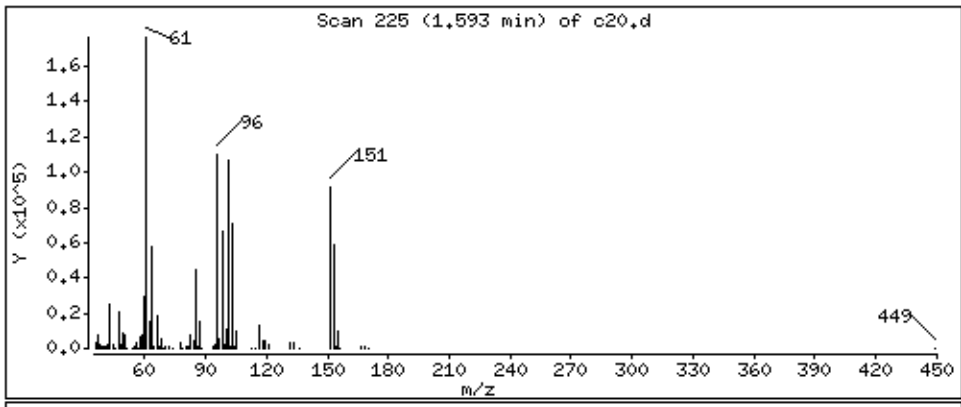
Column phase: DB-624

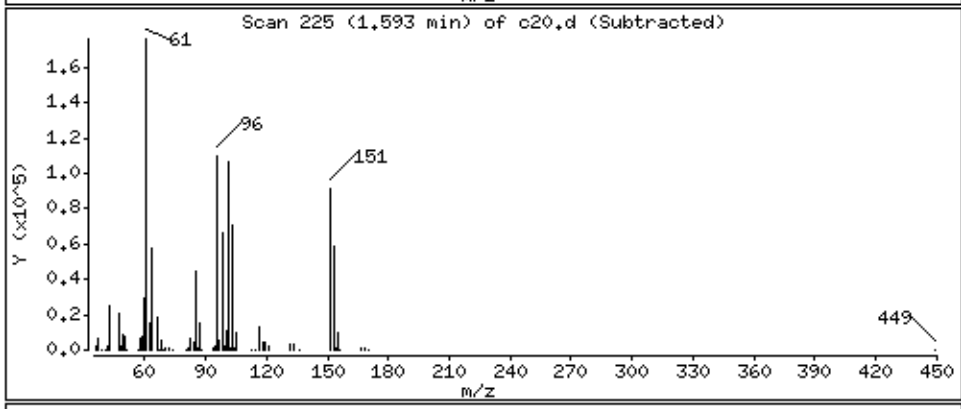
Column diameter: 0.18

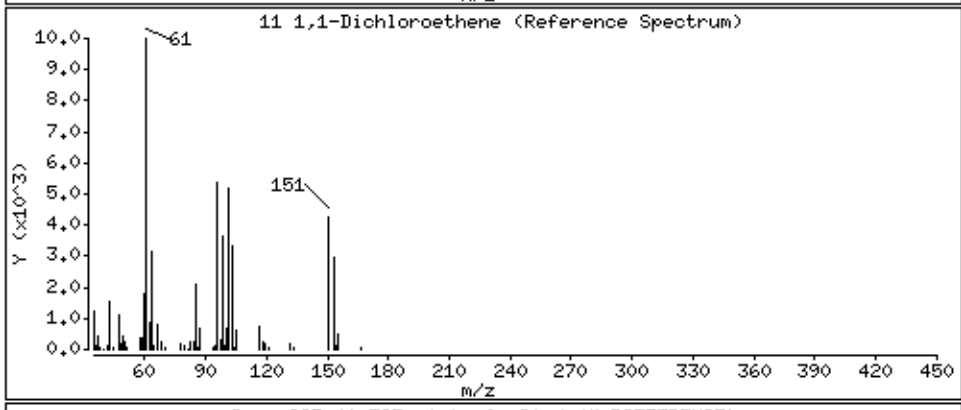
11 1,1-Dichloroethene

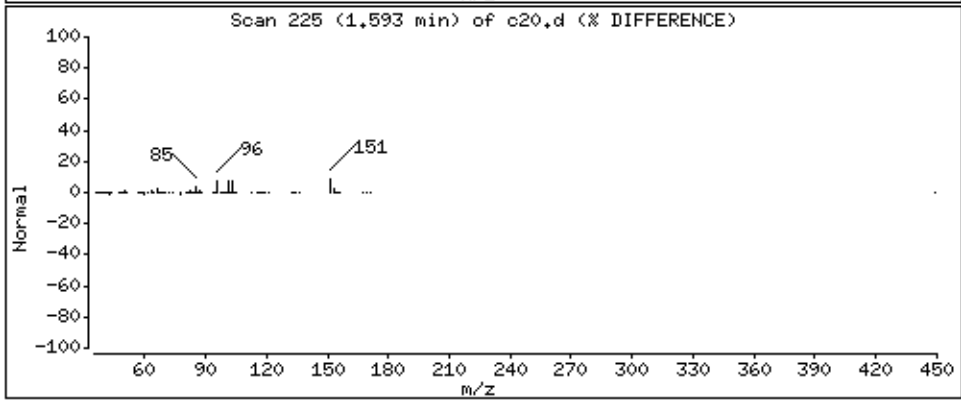
Concentration: 50.9 ppb

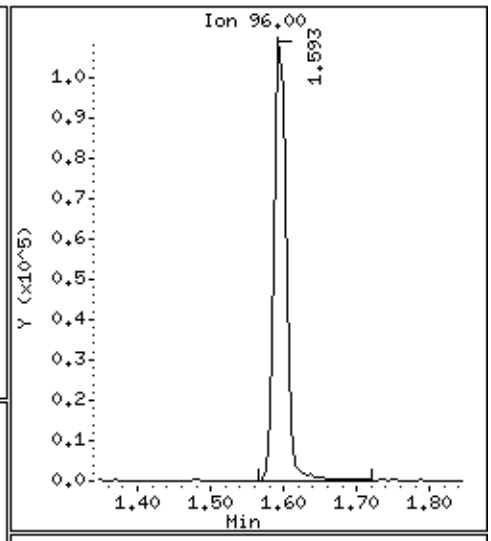
Review Code:

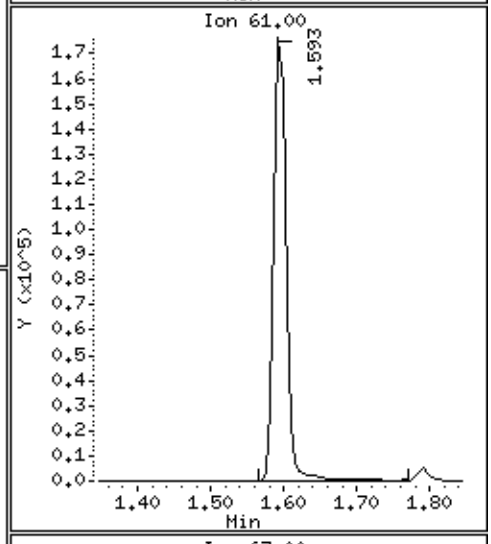


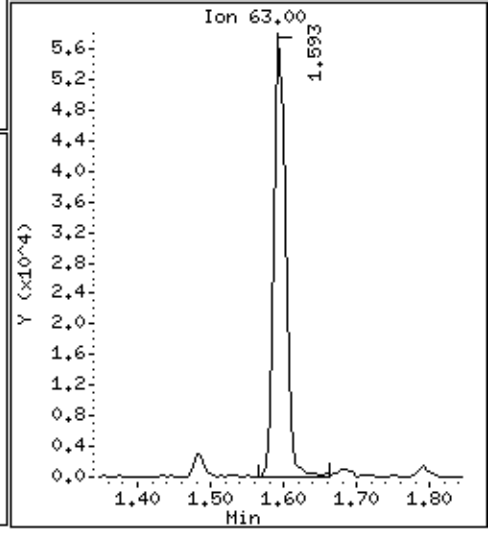












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

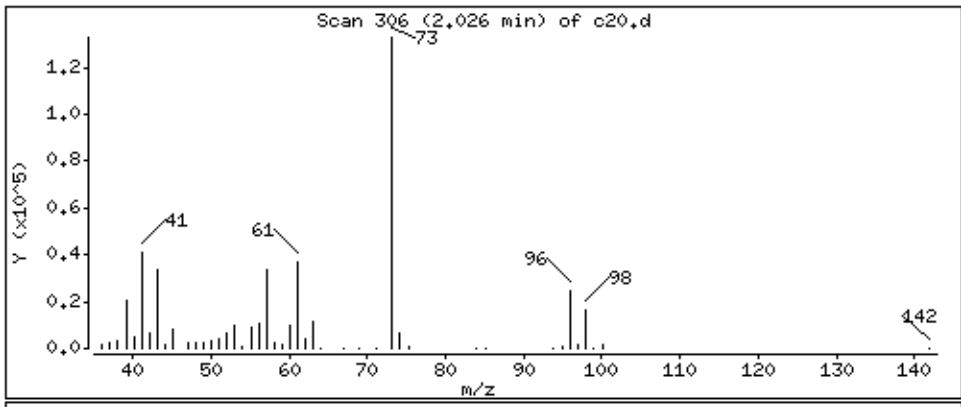
Column phase: DB-624

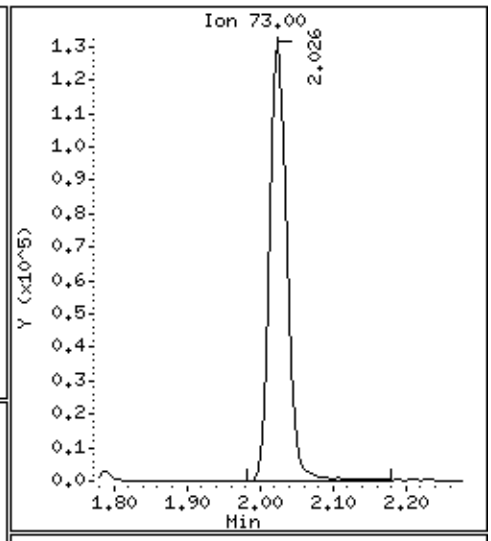
Column diameter: 0.18

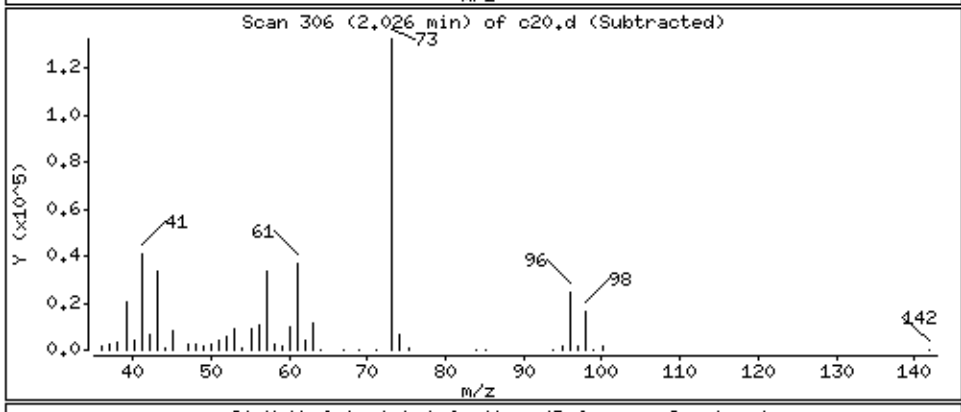
20 Methyl-tert-butyl ether

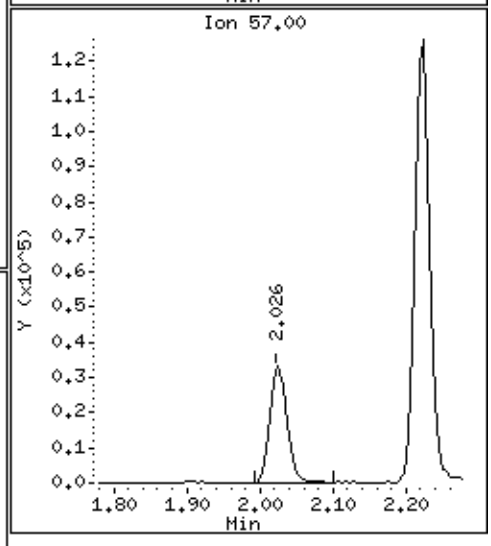
Concentration: 45.8 ppb

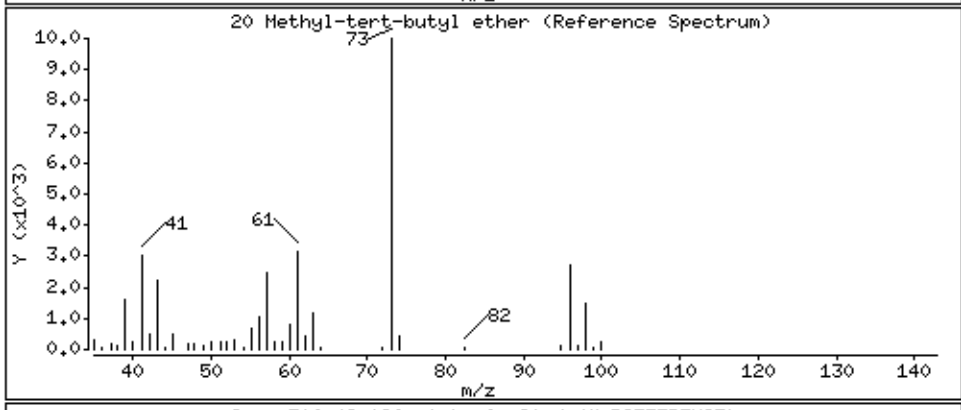
Review Code:

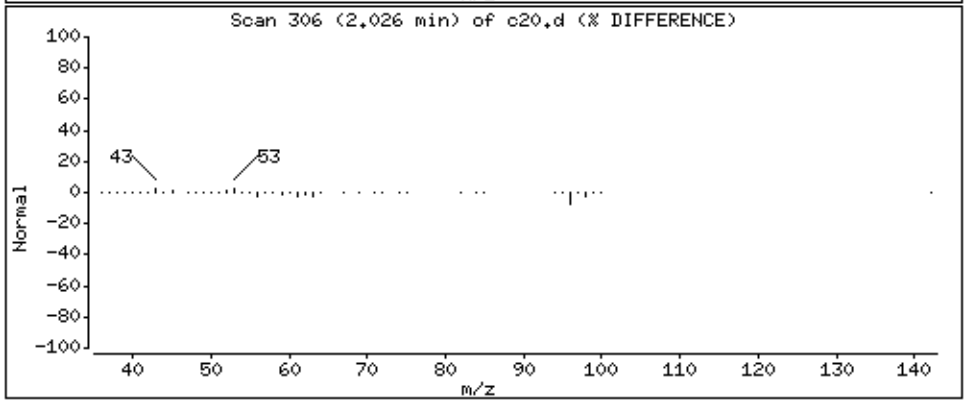












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

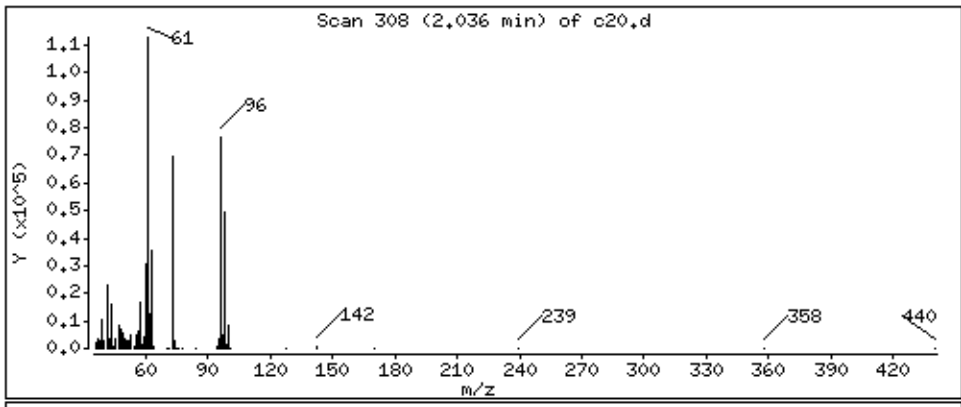
Column phase: DB-624

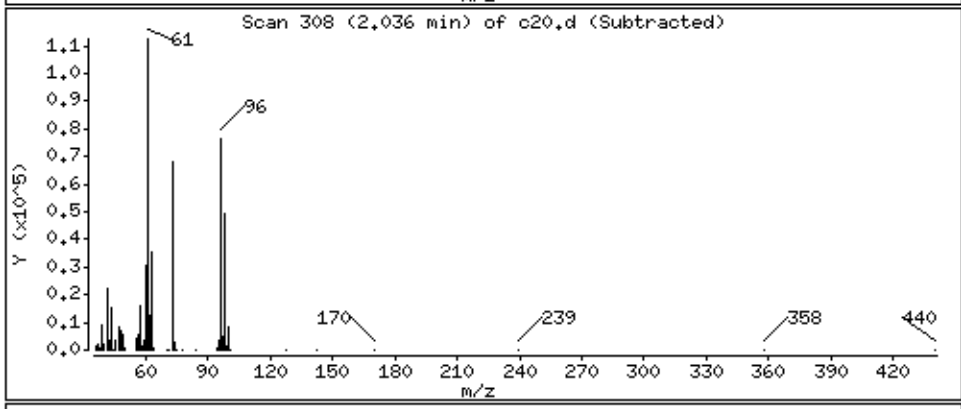
Column diameter: 0.18

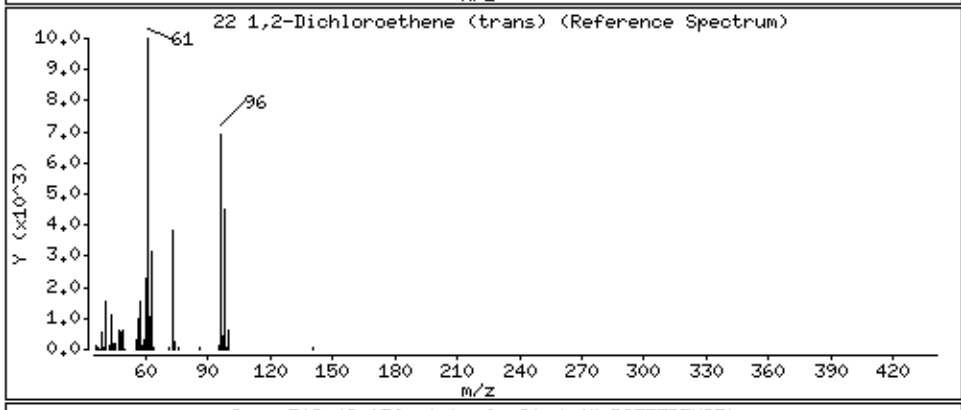
22 1,2-Dichloroethene (trans)

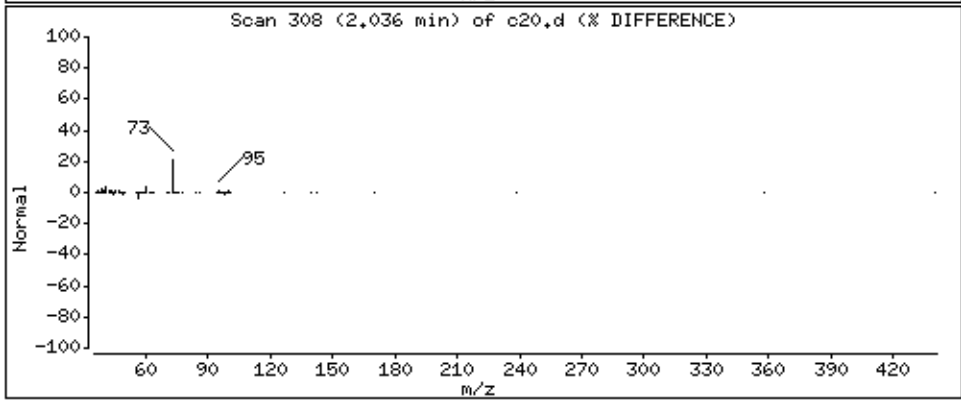
Concentration: 46.2 ppb

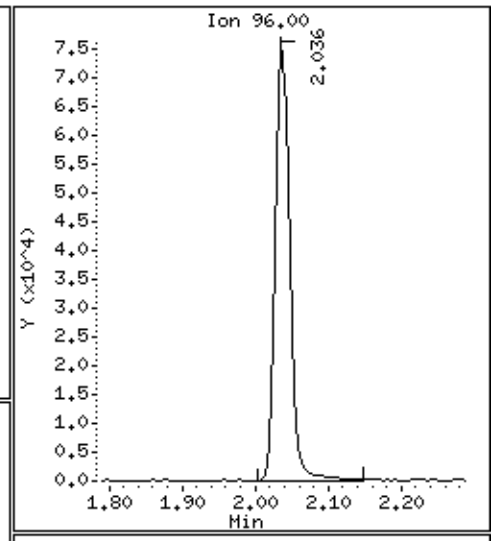
Review Code:

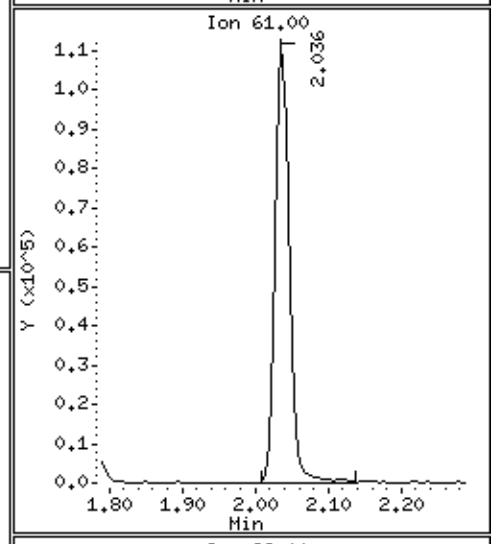


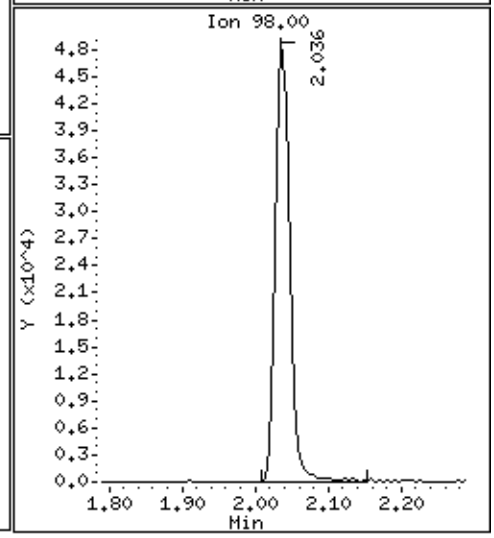












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

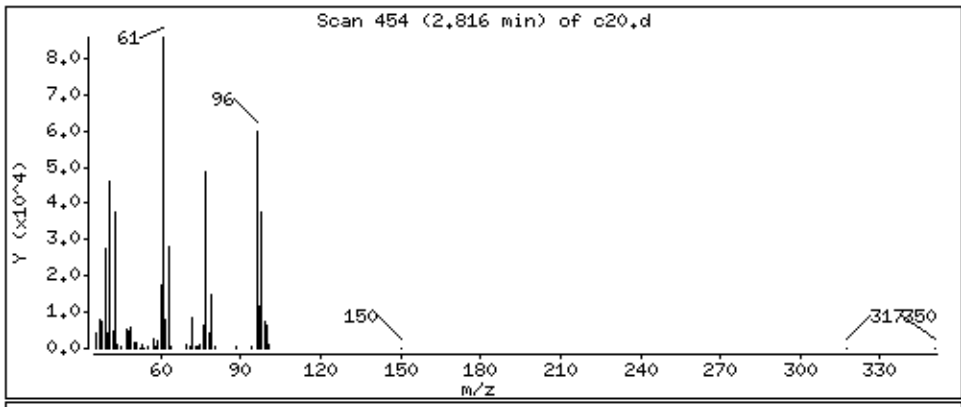
Column phase: DB-624

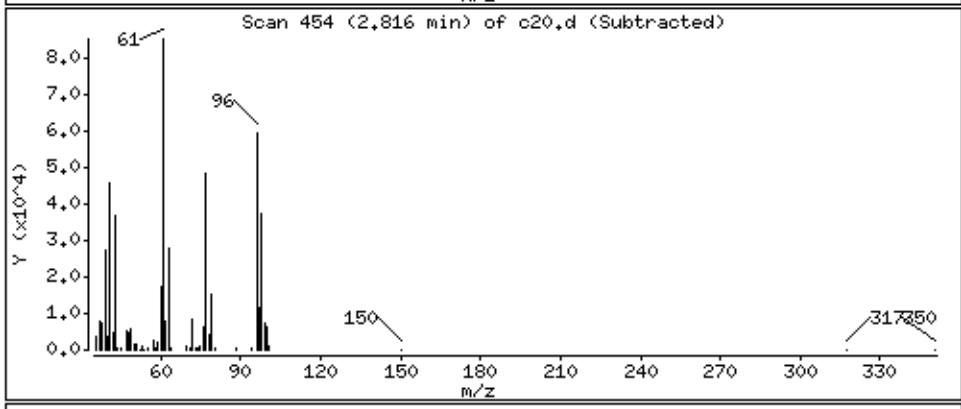
Column diameter: 0.18

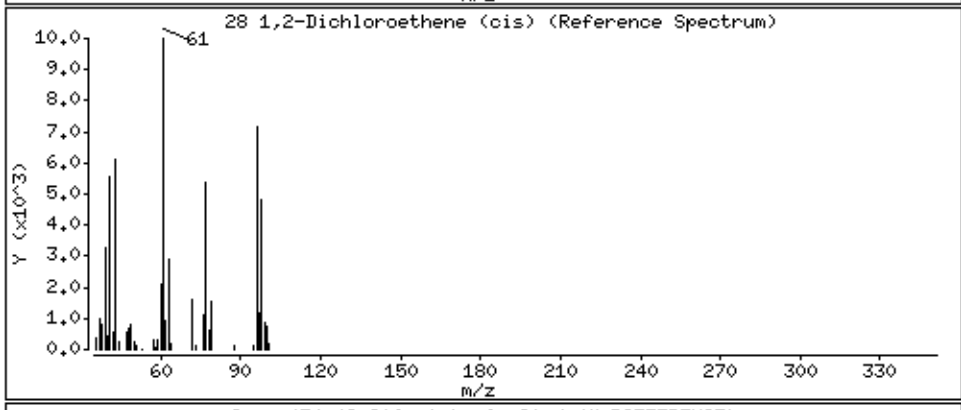
28 1,2-Dichloroethene (cis)

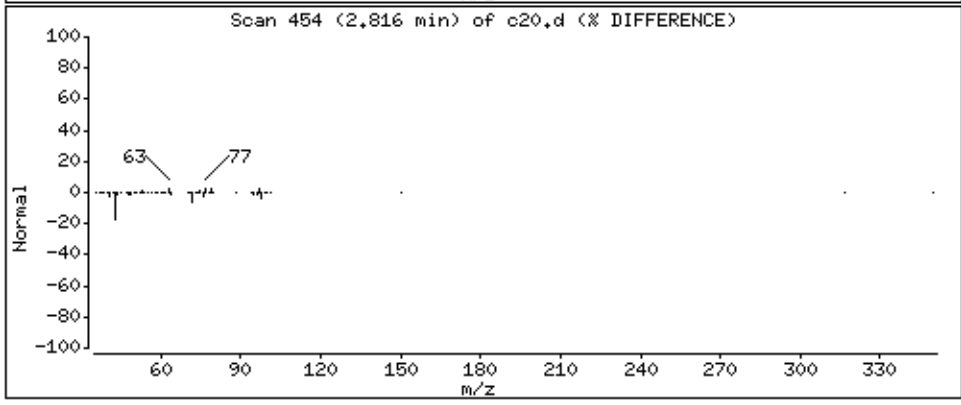
Concentration: 49.7 ppb

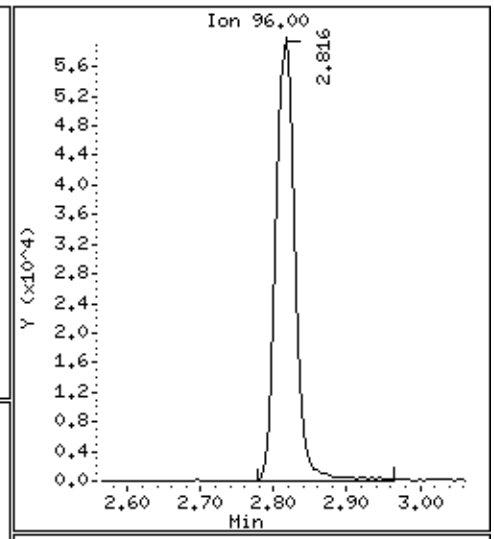
Review Code:

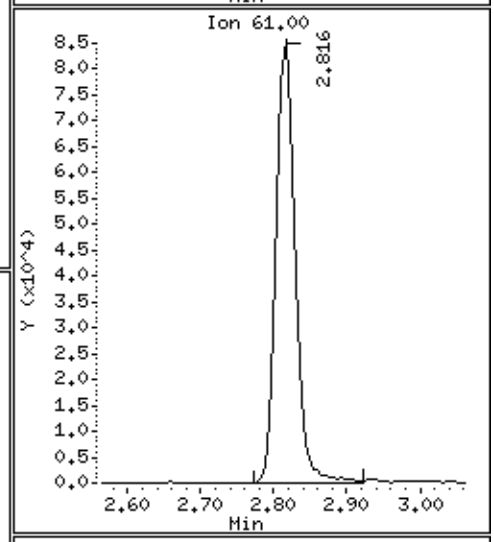


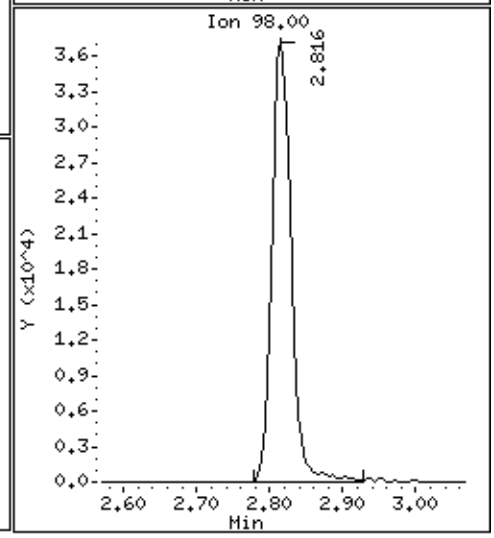












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

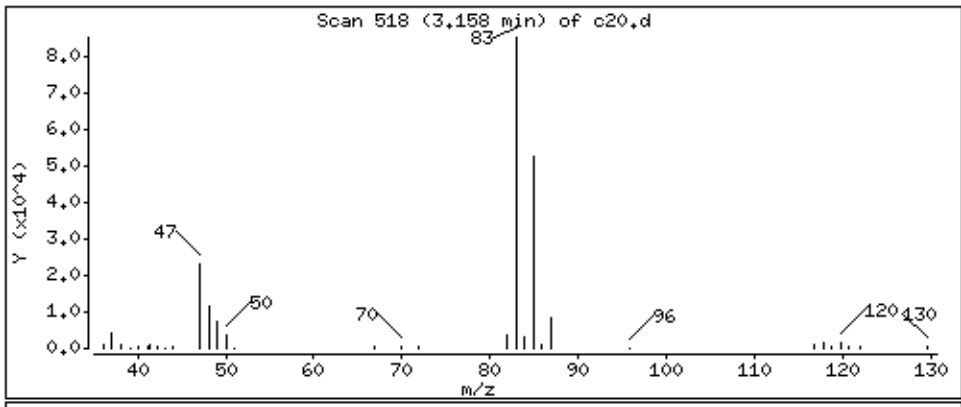
Column phase: DB-624

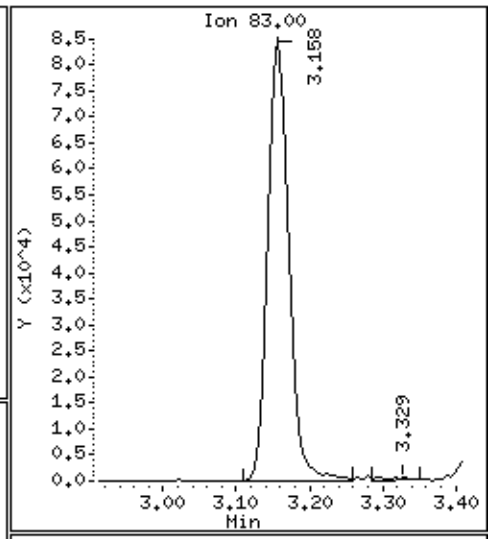
Column diameter: 0.18

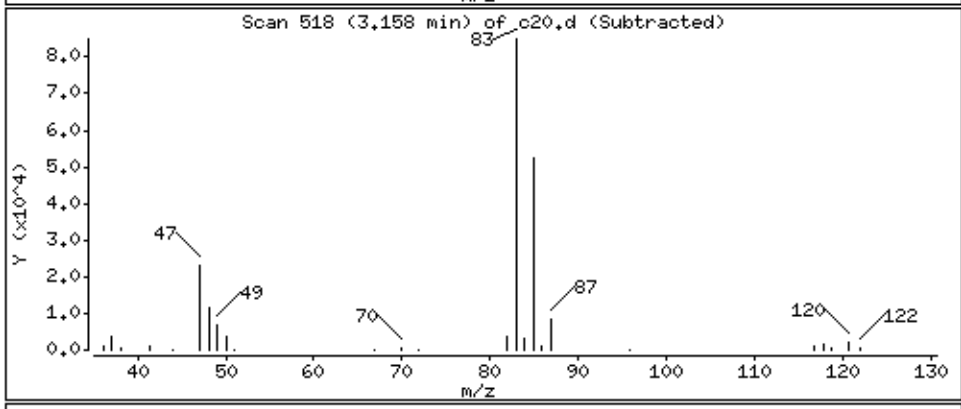
34 Chloroform

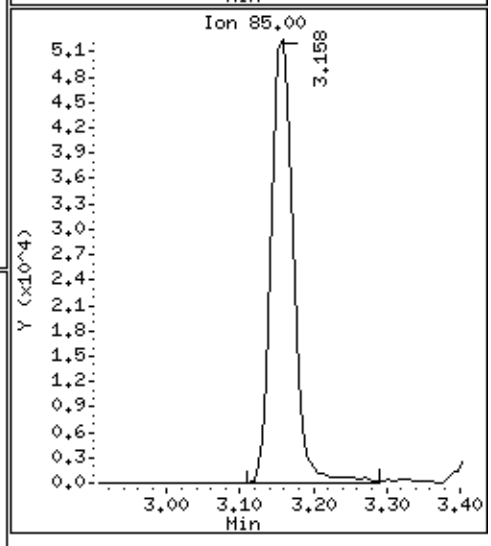
Concentration: 48.8 ppb

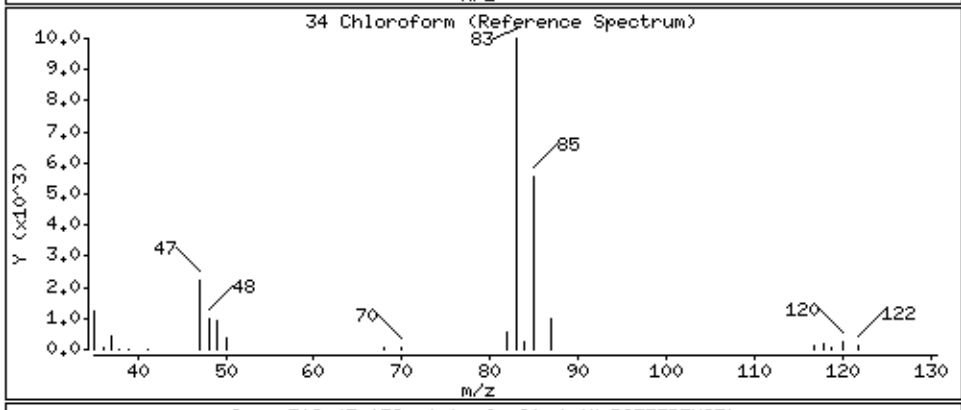
Review Code:

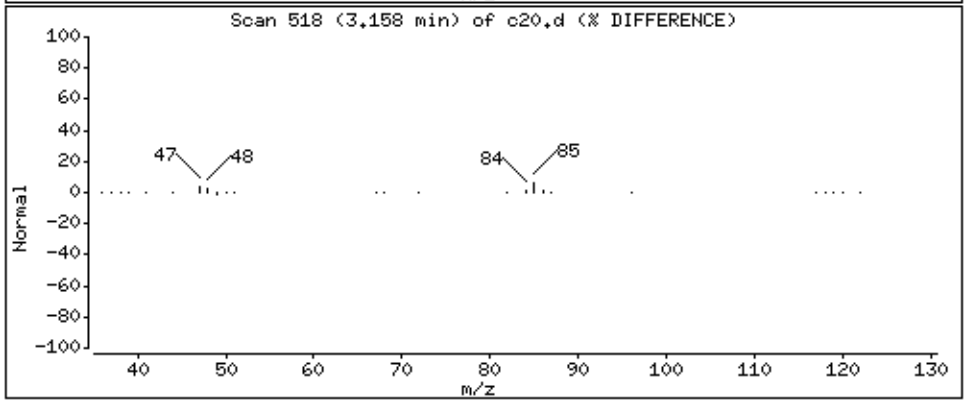












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

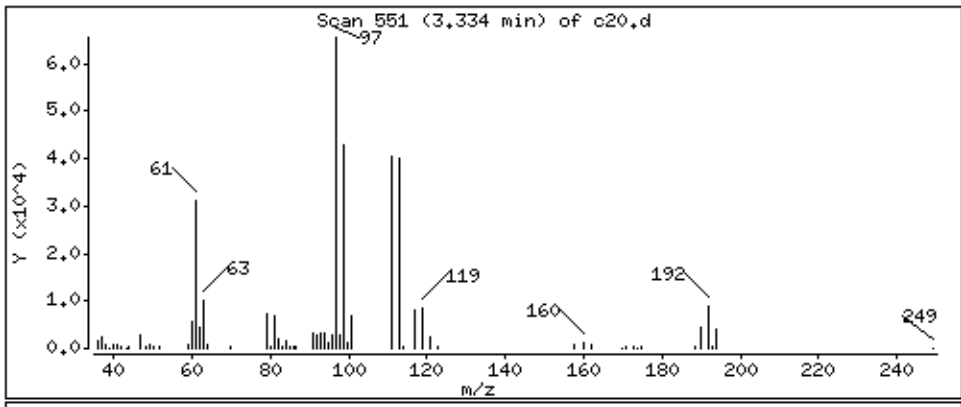
Column phase: DB-624

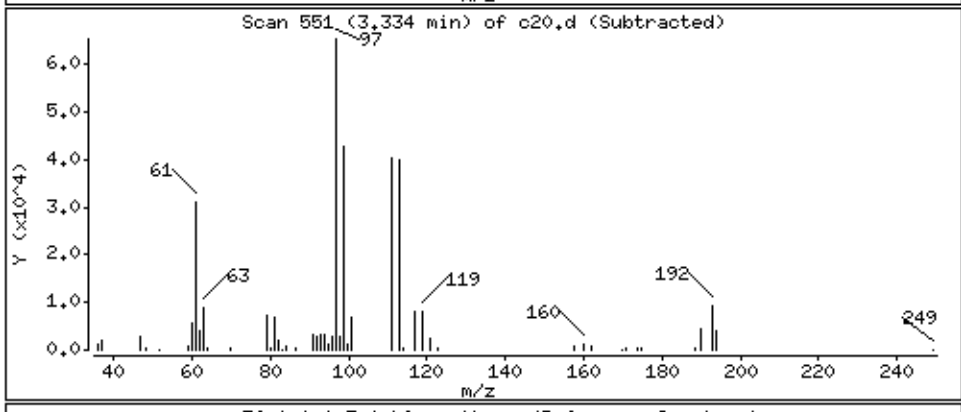
Column diameter: 0.18

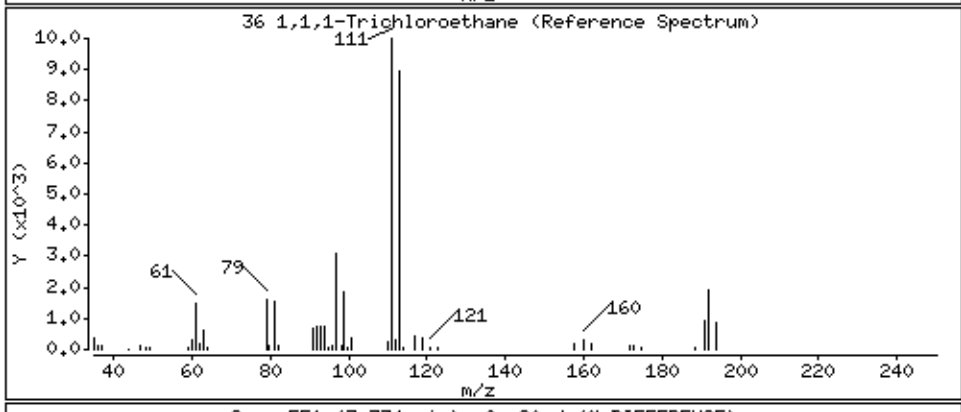
36 1,1,1-Trichloroethane

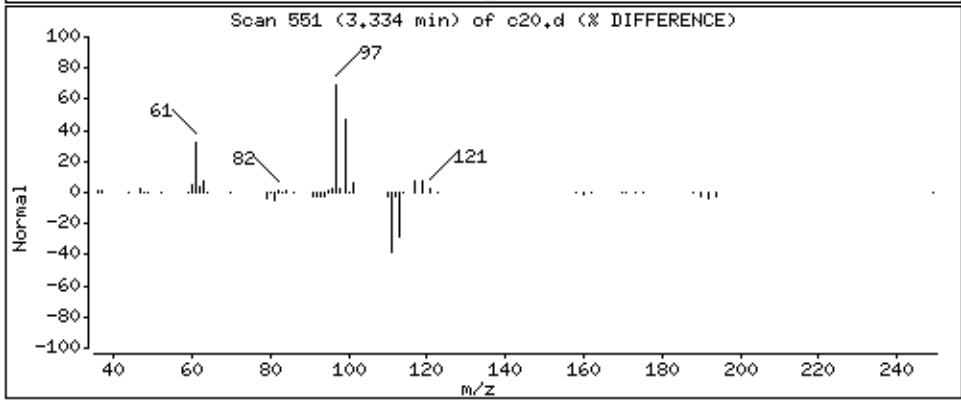
Concentration: 50.6 ppb

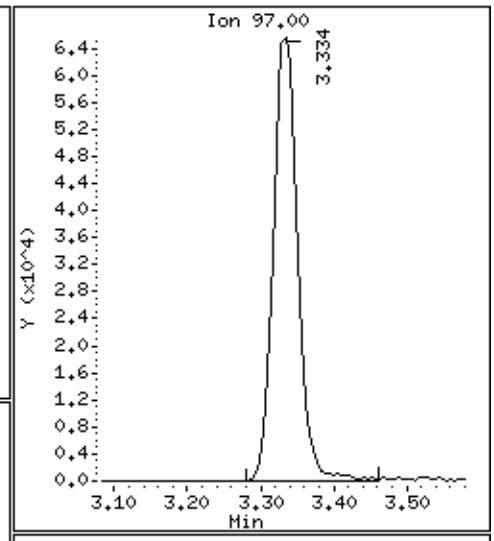
Review Code:

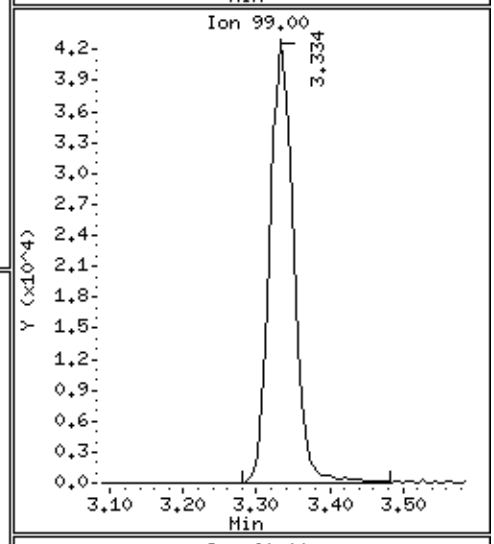


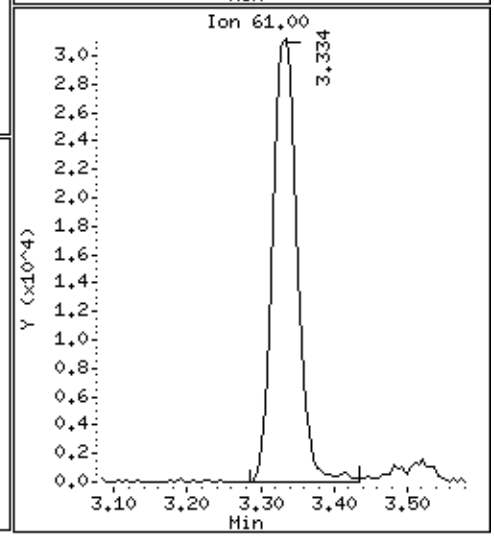












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

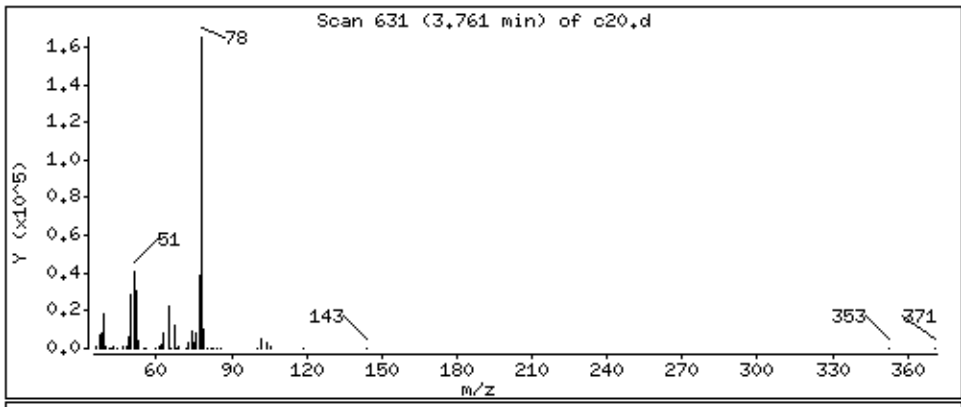
Column phase: DB-624

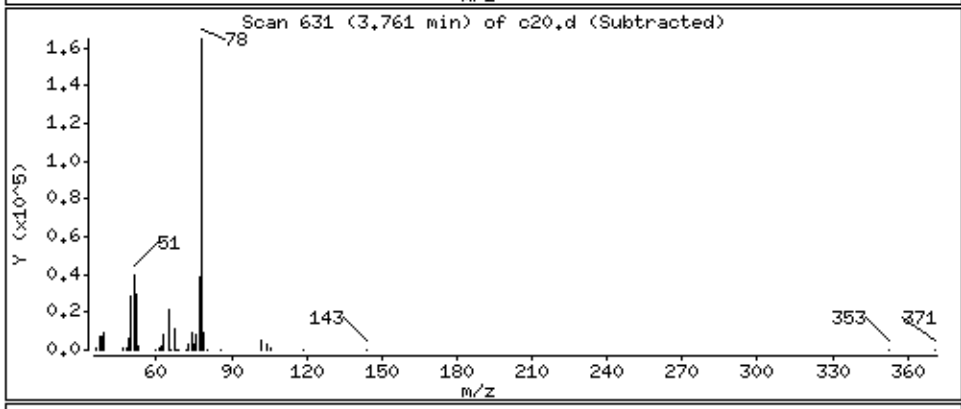
Column diameter: 0.18

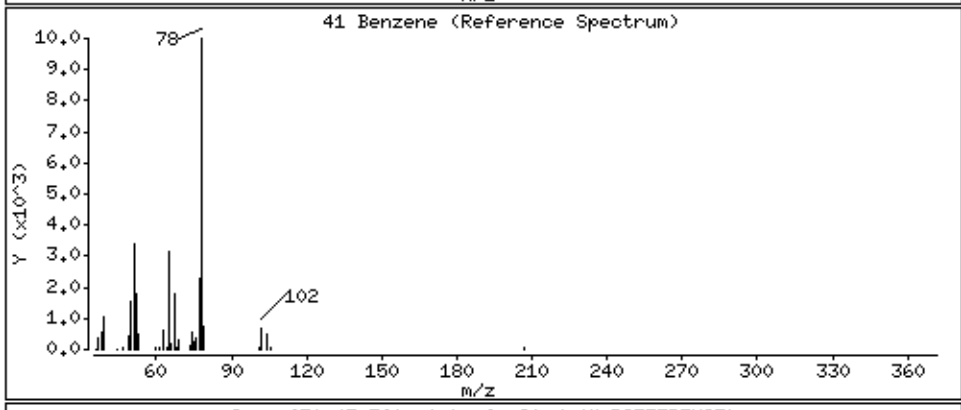
41 Benzene

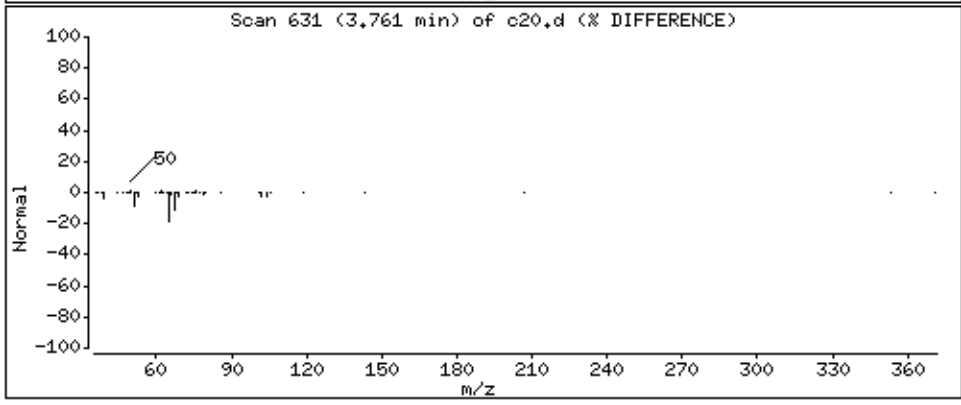
Concentration: 48.5 ppb

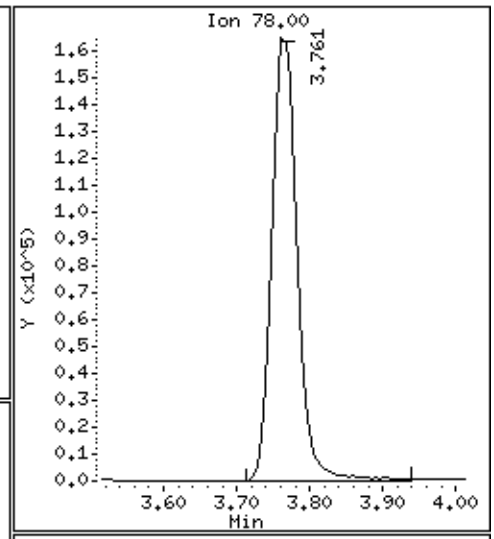
Review Code:

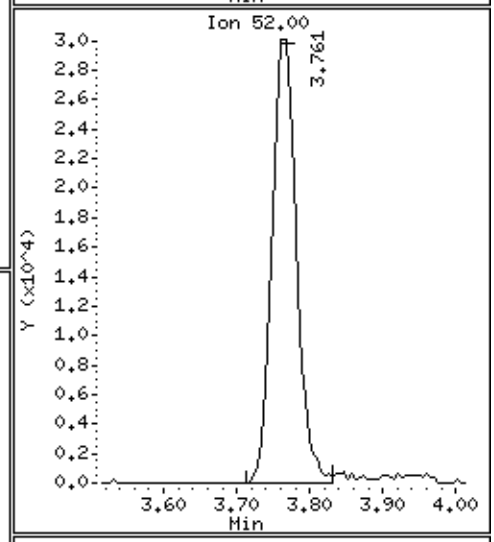


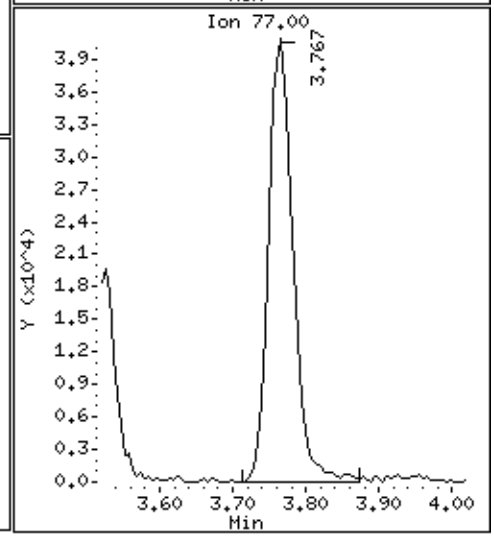












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

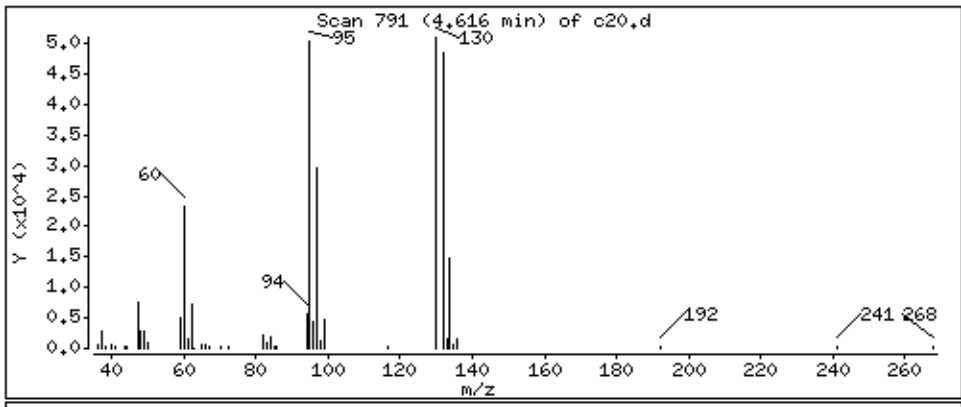
Column phase: DB-624

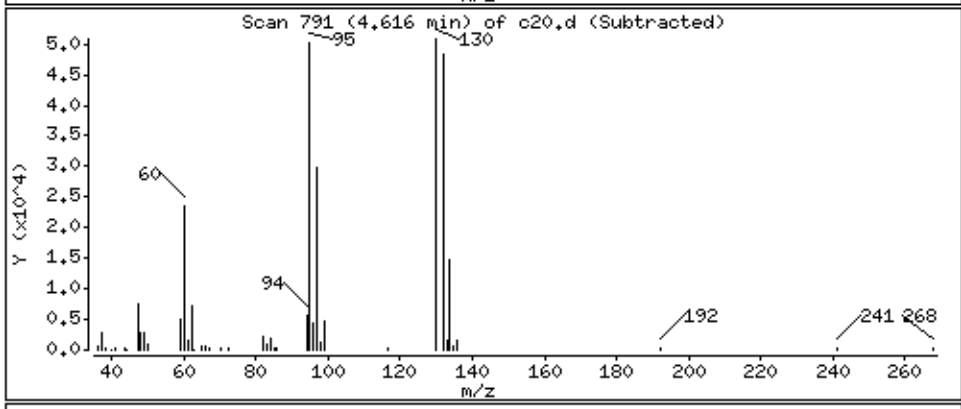
Column diameter: 0.18

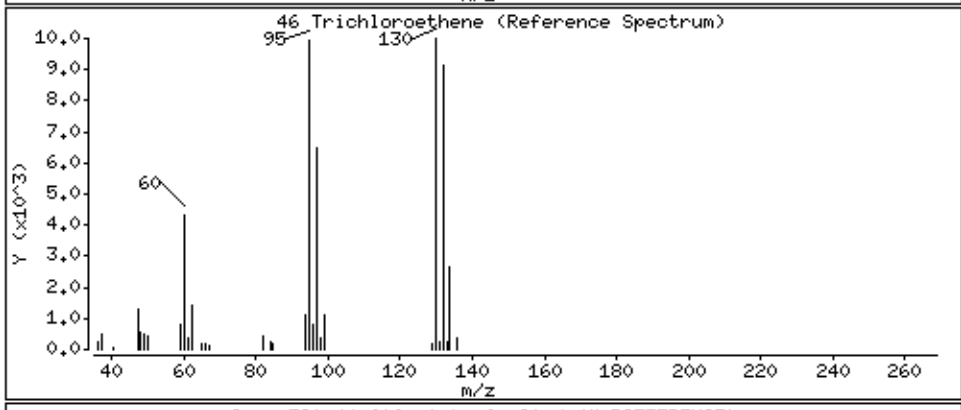
46 Trichloroethene

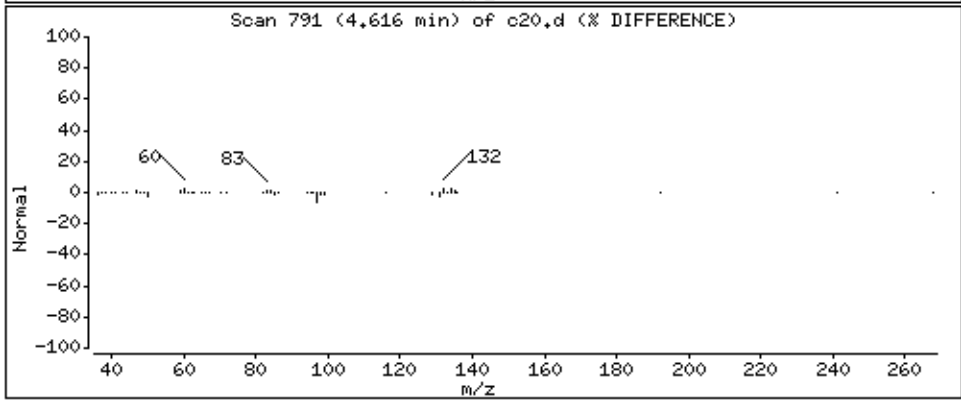
Concentration: 49.0 ppb

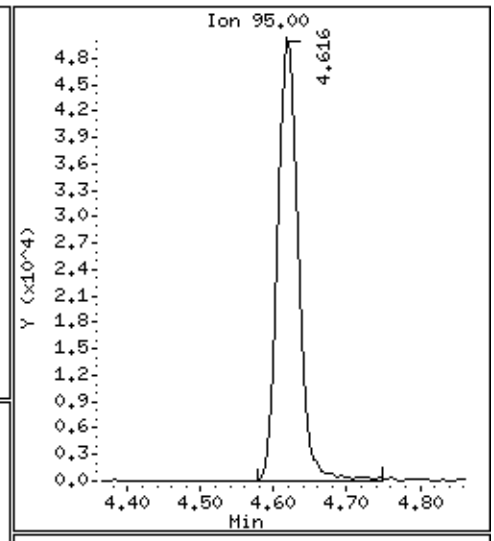
Review Code:

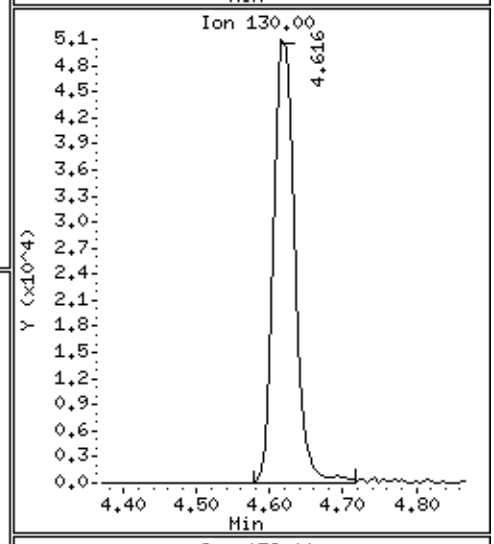


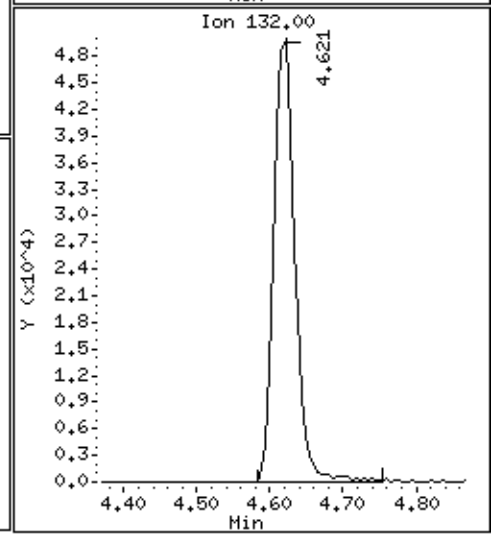












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

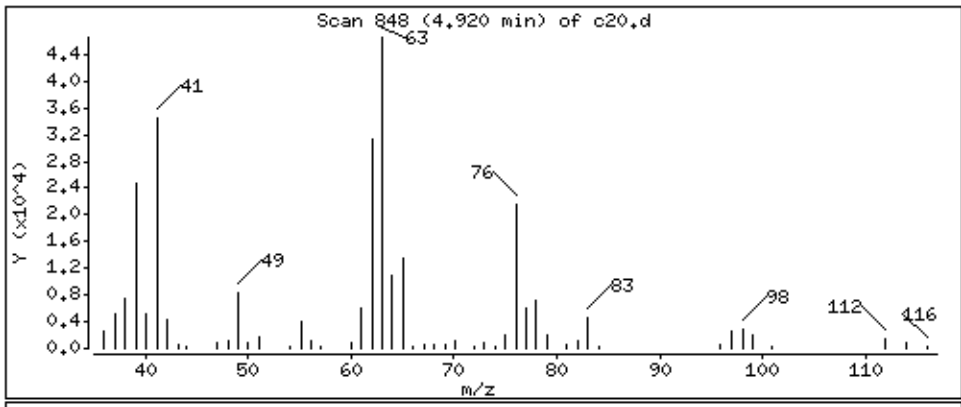
Column phase: DB-624

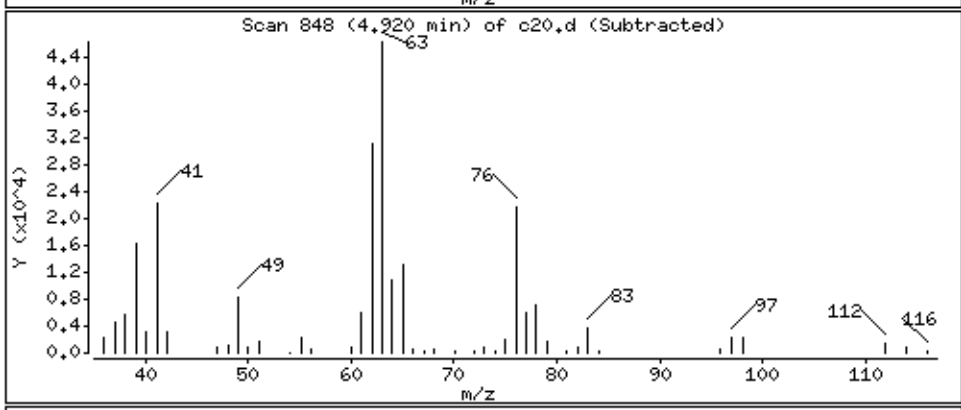
Column diameter: 0.18

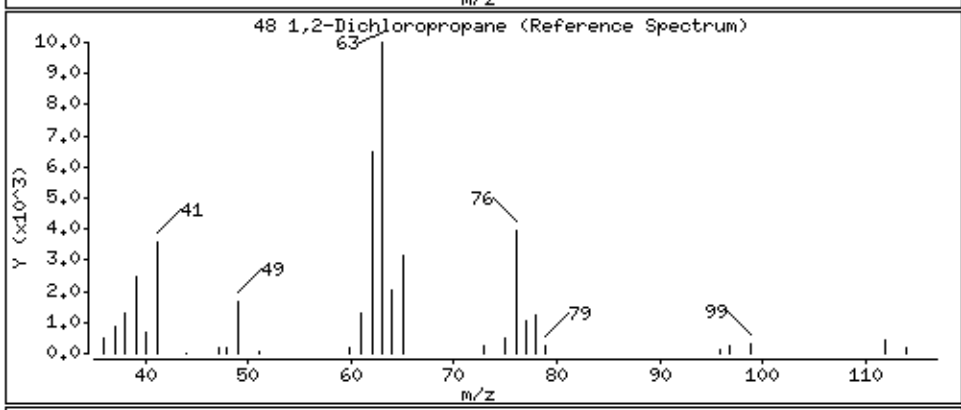
48 1,2-Dichloropropane

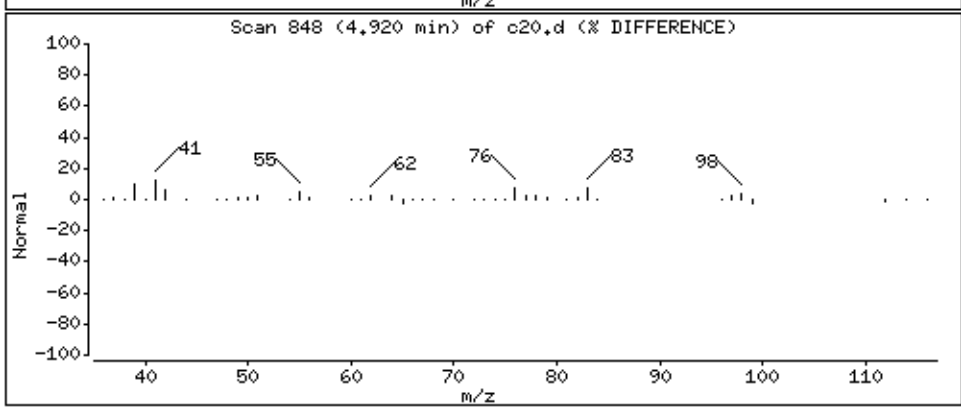
Concentration: 47.8 ppb

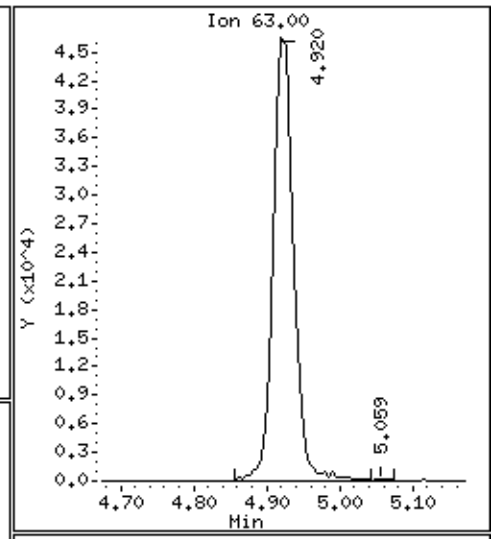
Review Code:

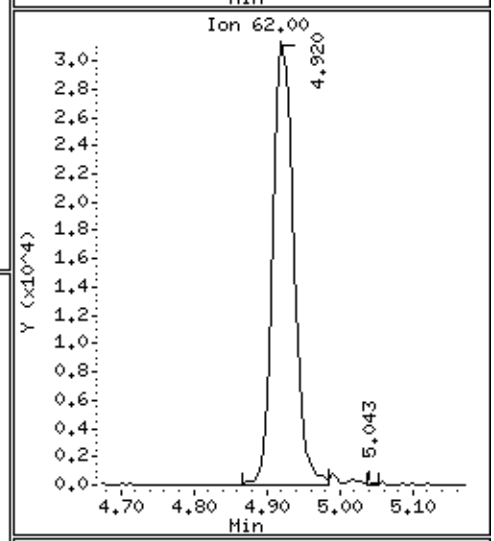


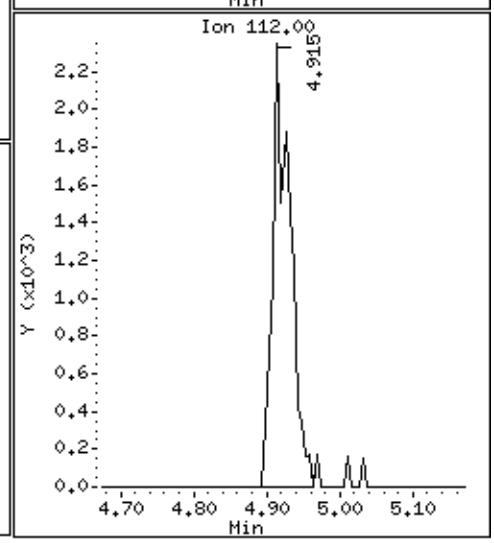












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

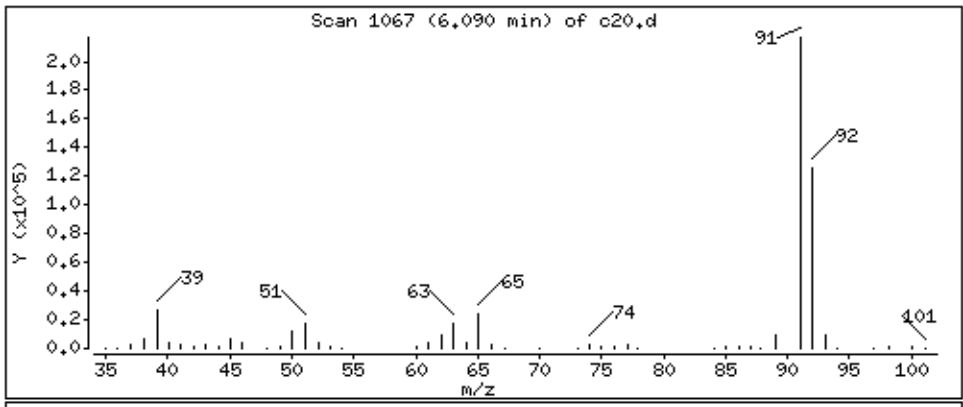
Column phase: DB-624

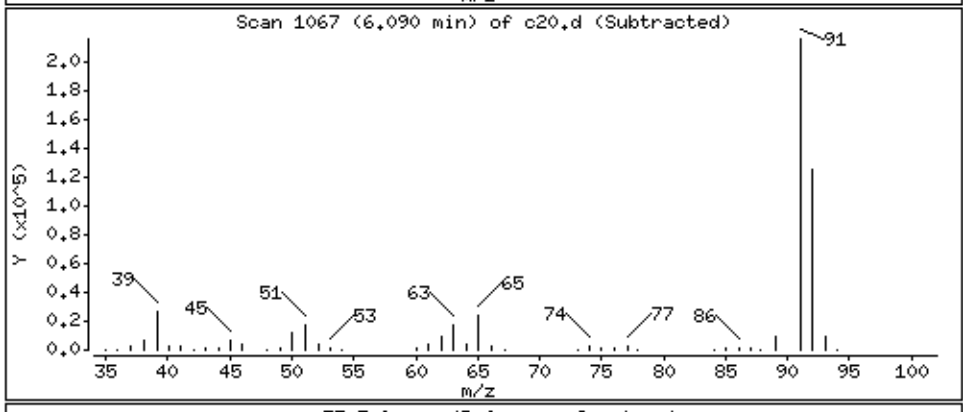
Column diameter: 0.18

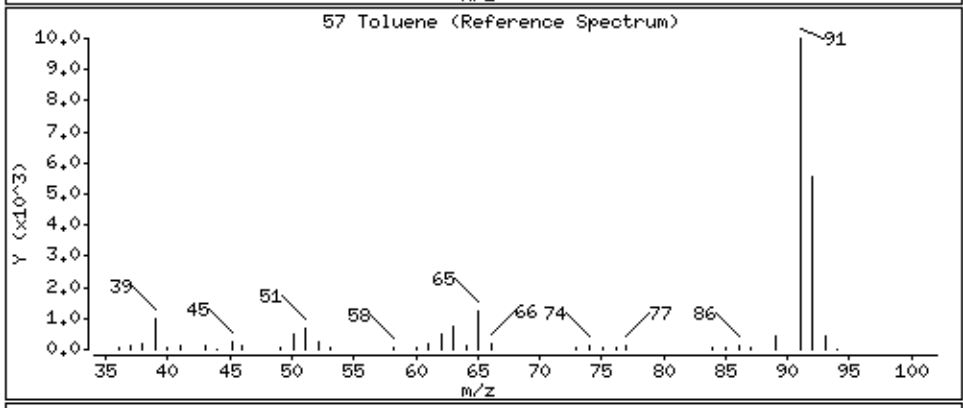
57 Toluene

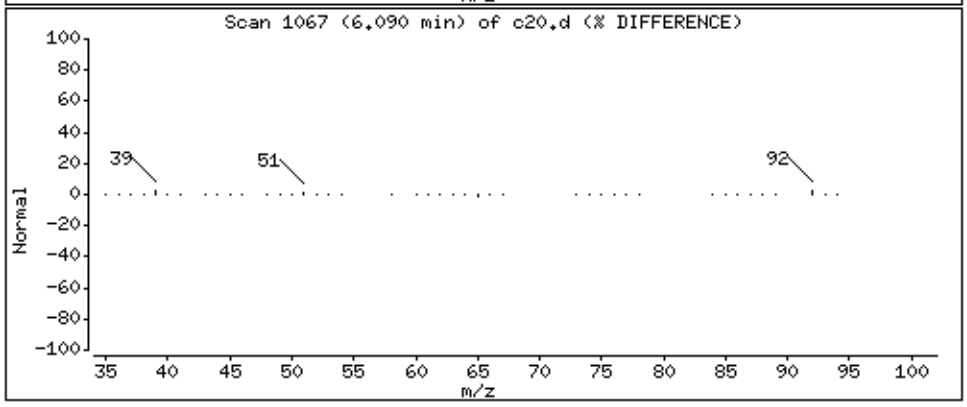
Concentration: 43.8 ppb

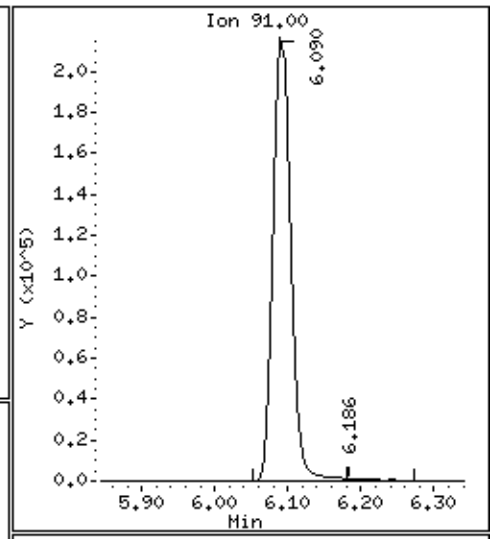
Review Code:

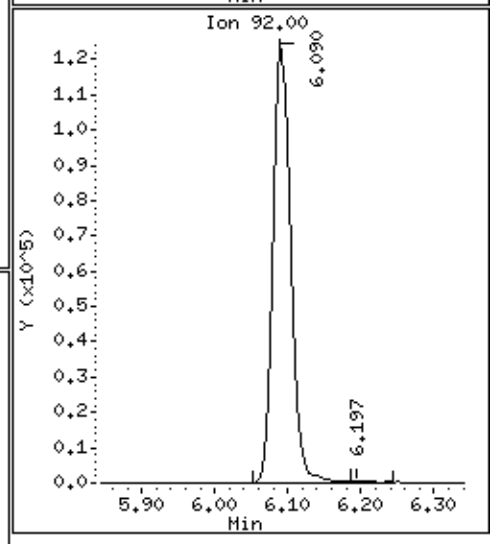












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

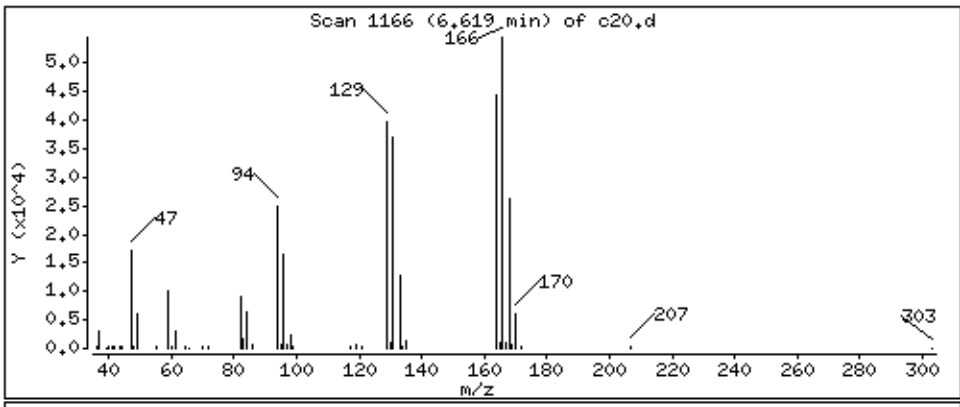
Column phase: DB-624

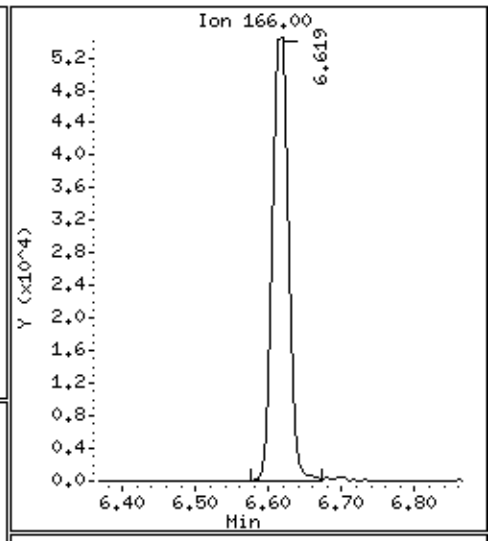
Column diameter: 0.18

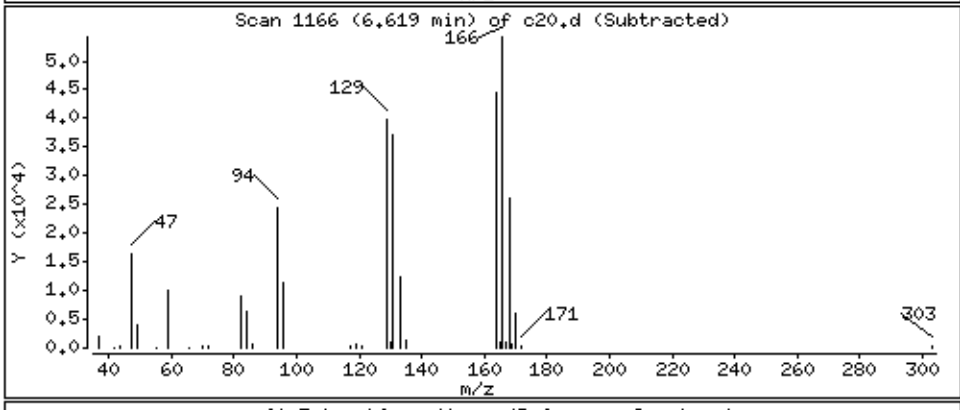
61 Tetrachloroethene

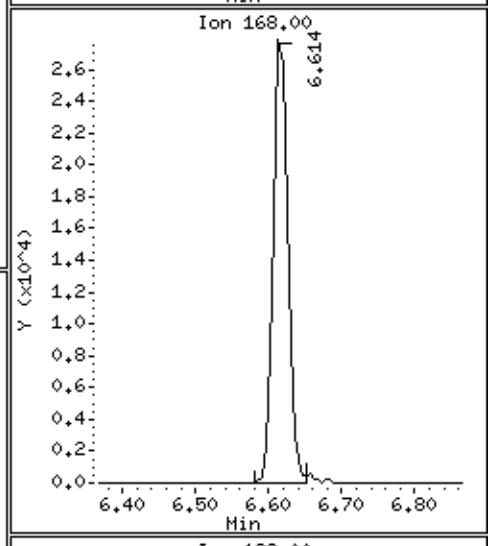
Concentration: 49.6 ppb

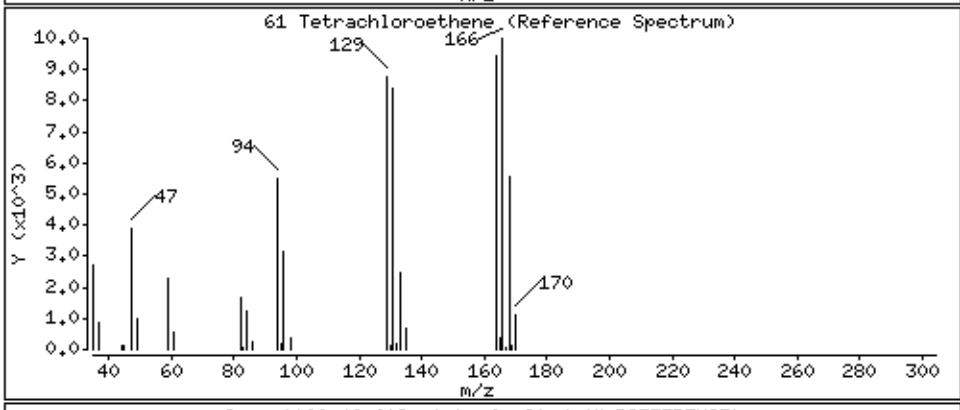
Review Code:

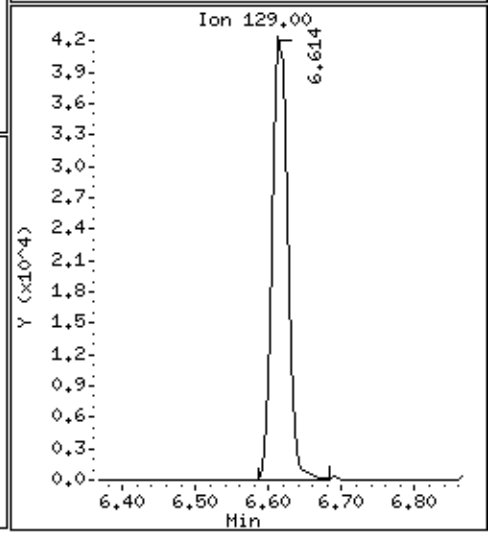


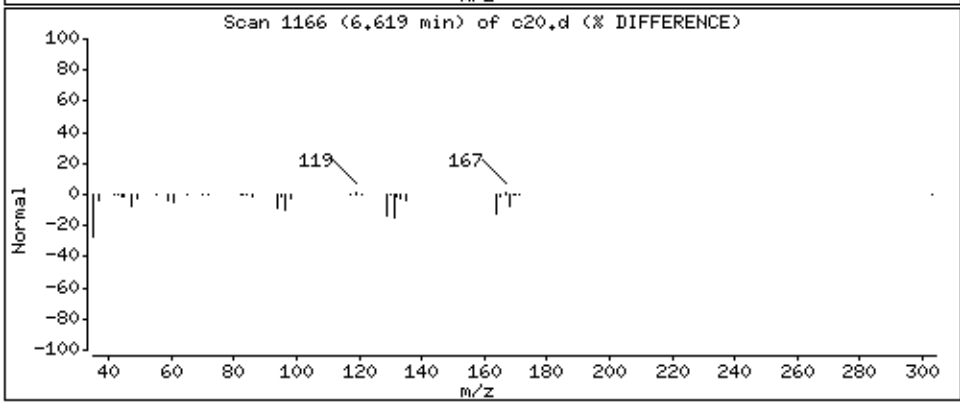












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

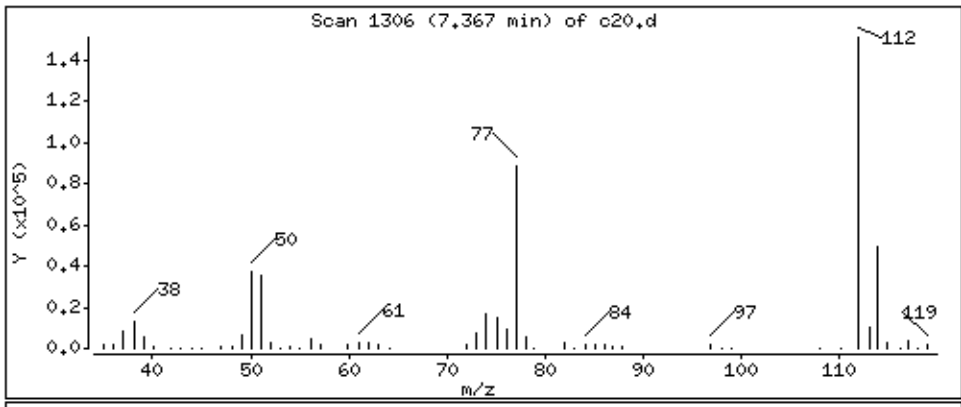
Column phase: DB-624

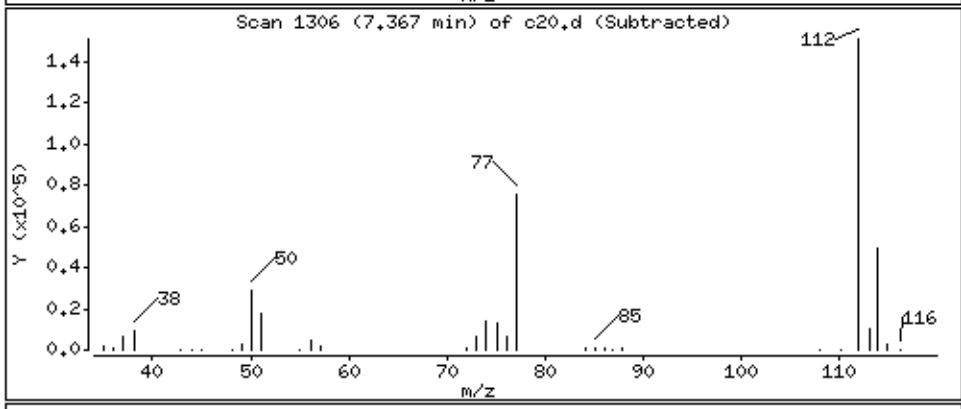
Column diameter: 0.18

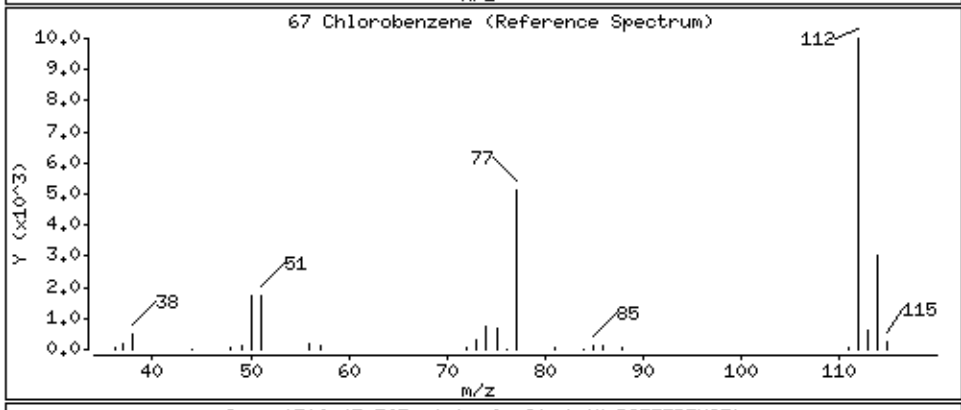
67 Chlorobenzene

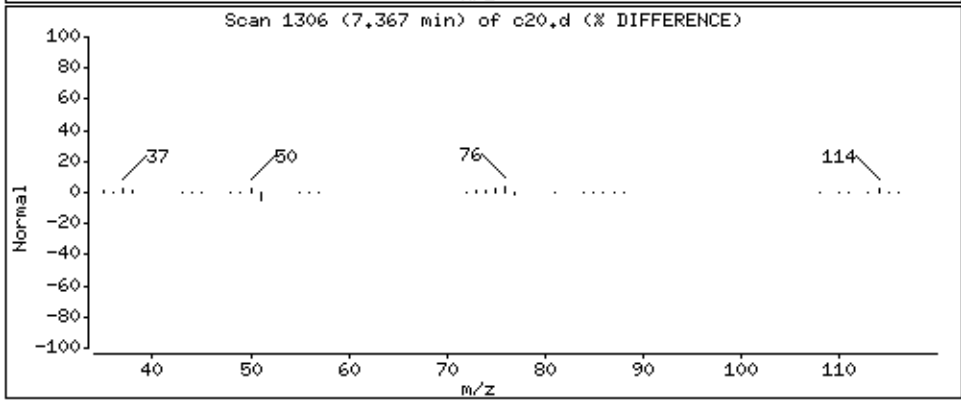
Concentration: 48.0 ppb

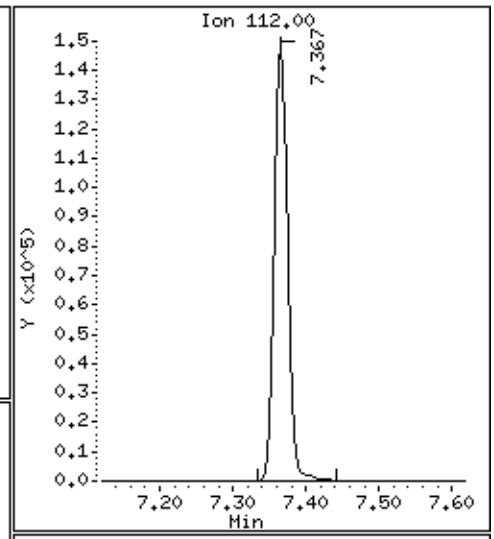
Review Code:

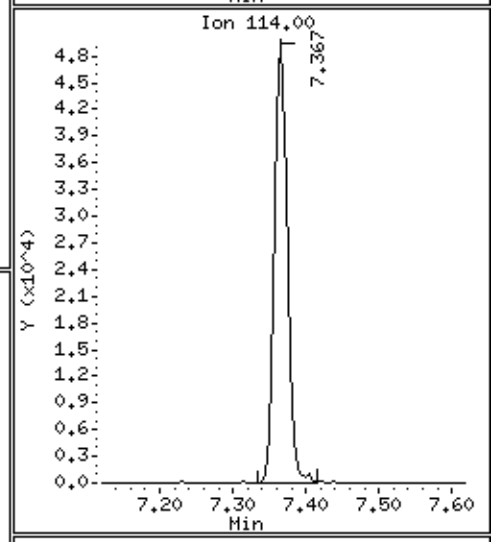


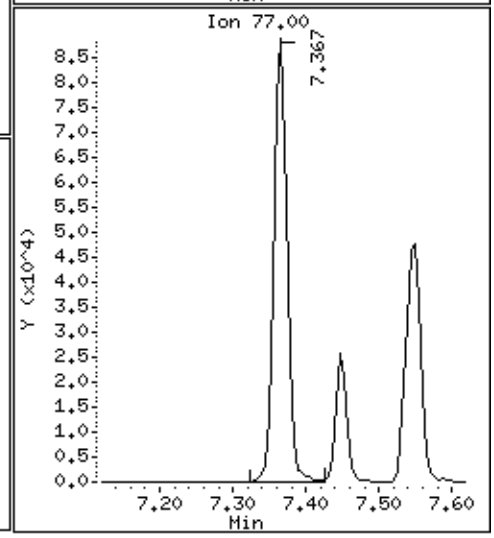












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

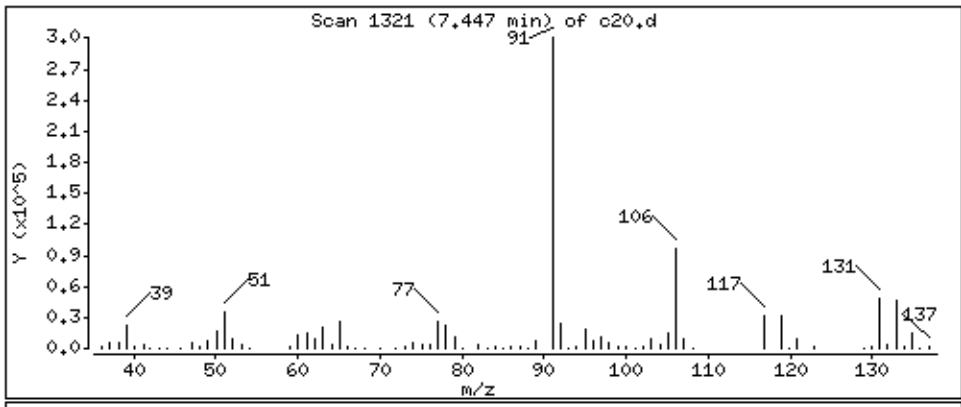
Column phase: DB-624

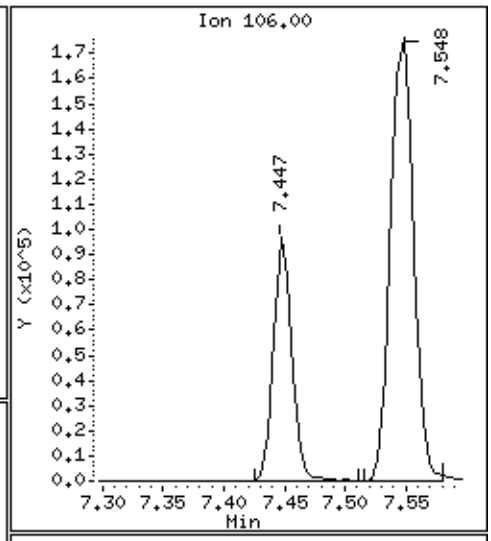
Column diameter: 0.18

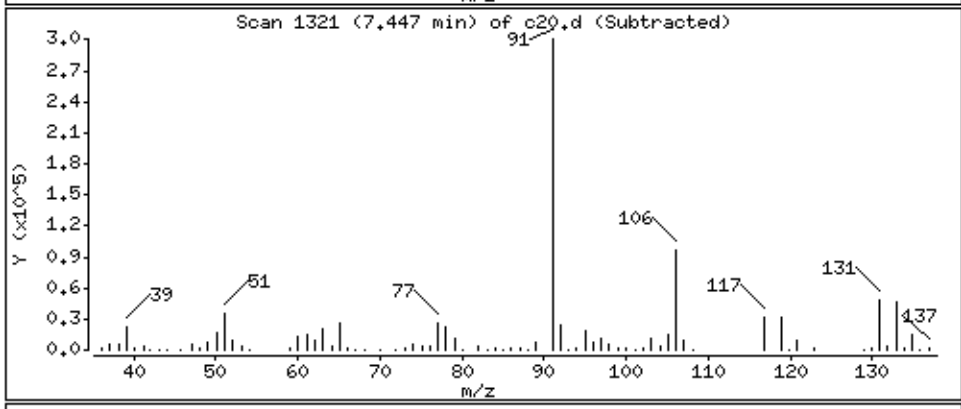
69 Ethylbenzene

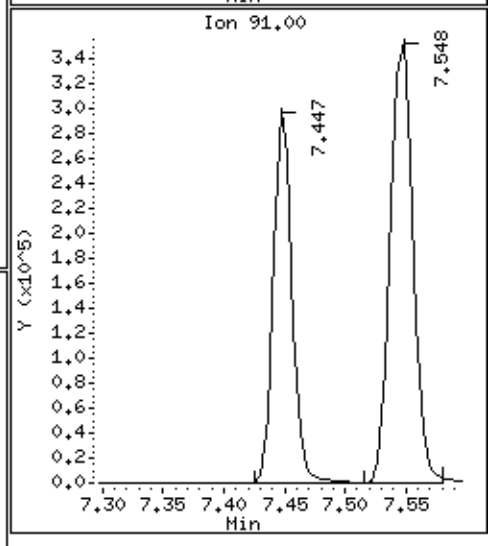
Concentration: 50.2 ppb

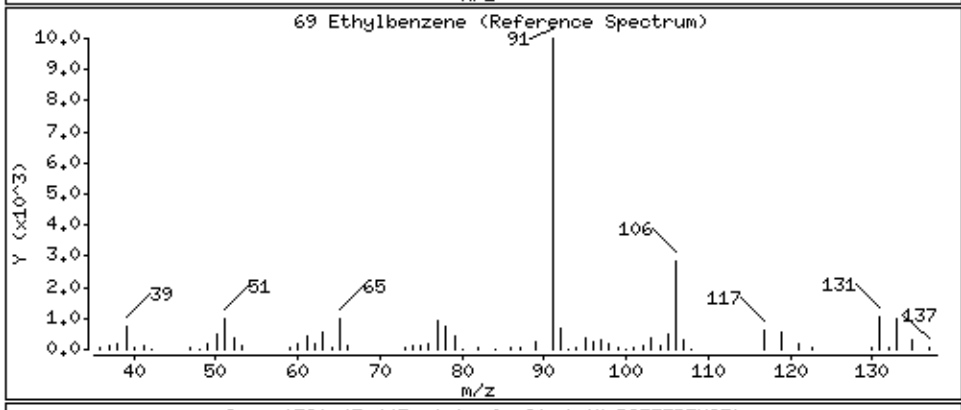
Review Code:

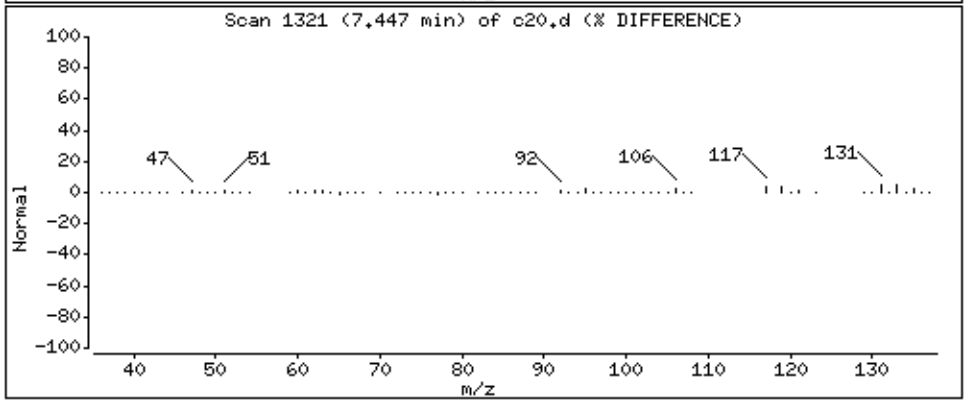












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

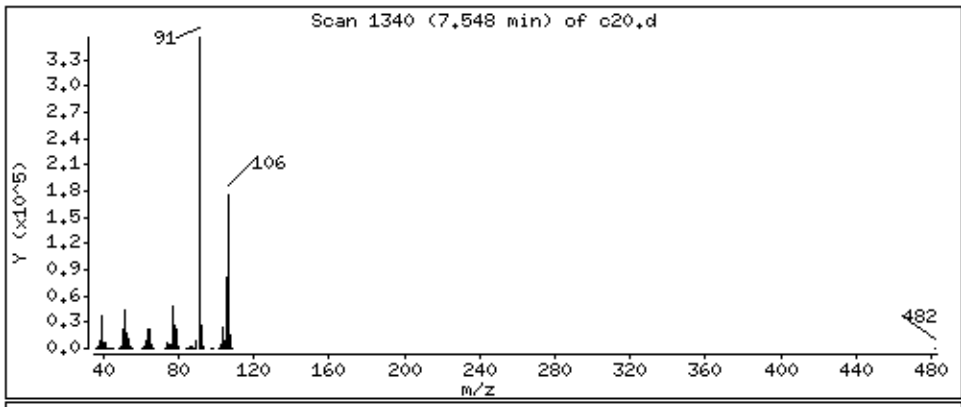
Column phase: DB-624

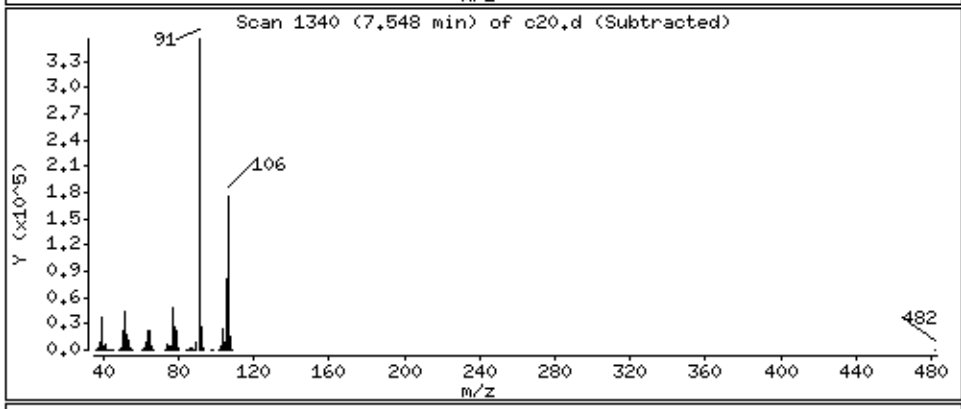
Column diameter: 0.18

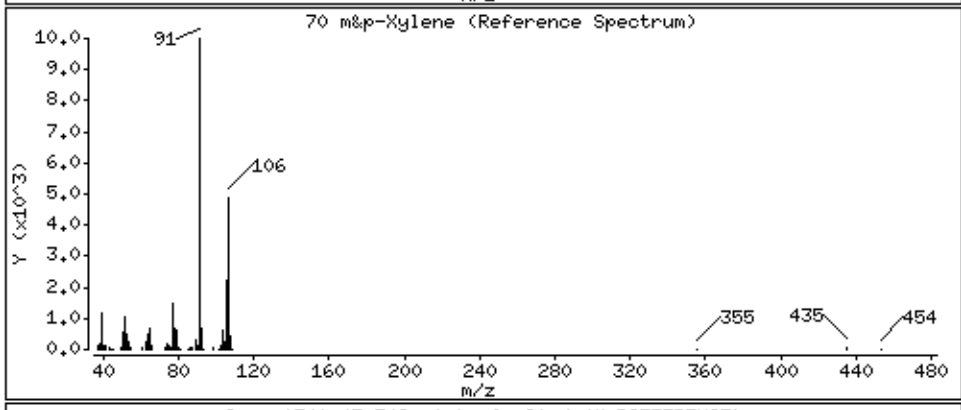
70 m&p-Xylene

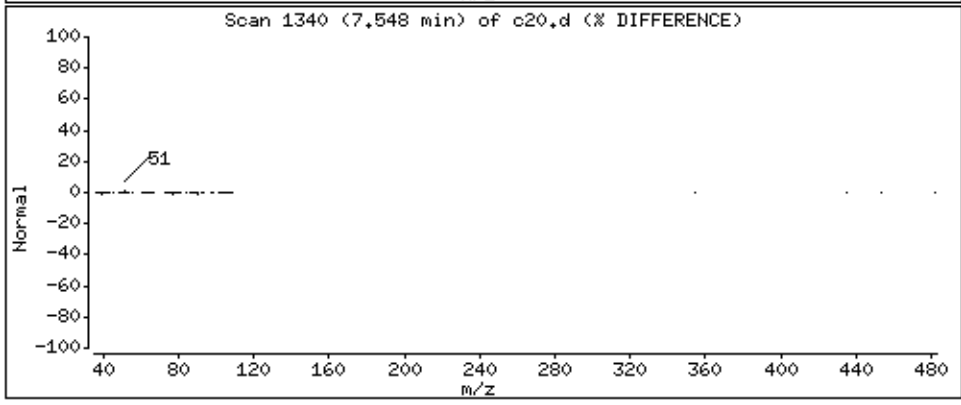
Concentration: 96.1 ppb

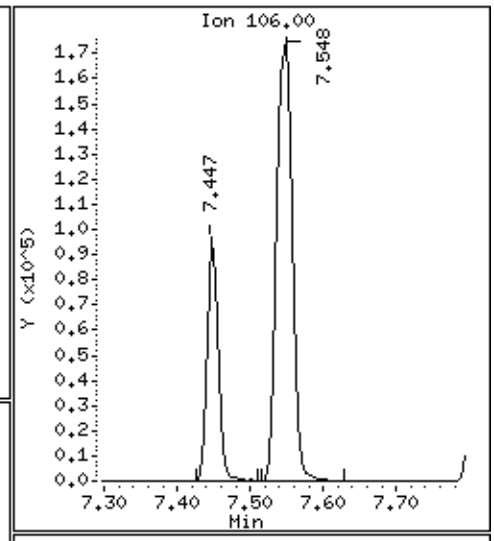
Review Code:

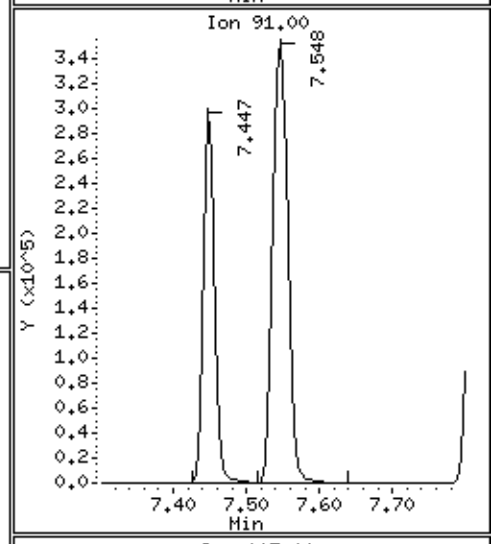


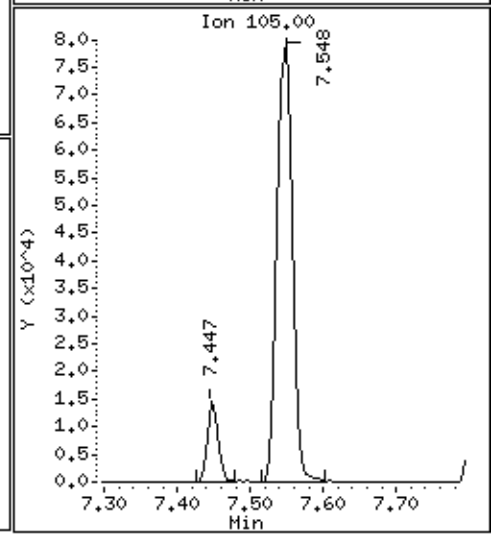












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

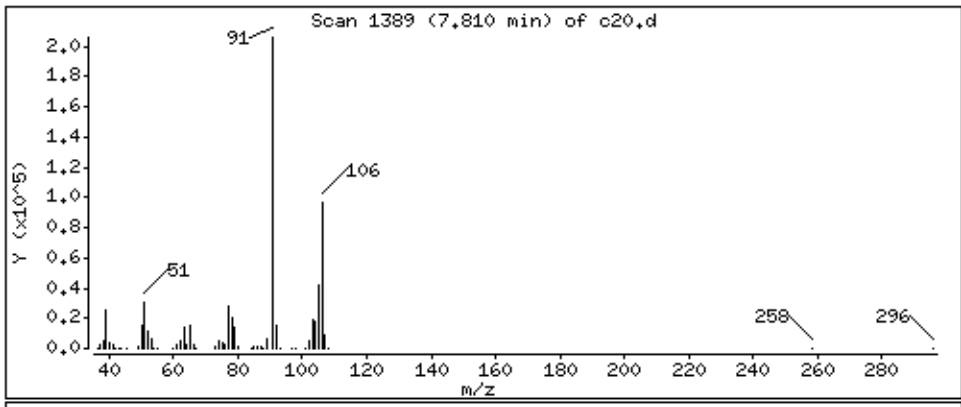
Column phase: DB-624

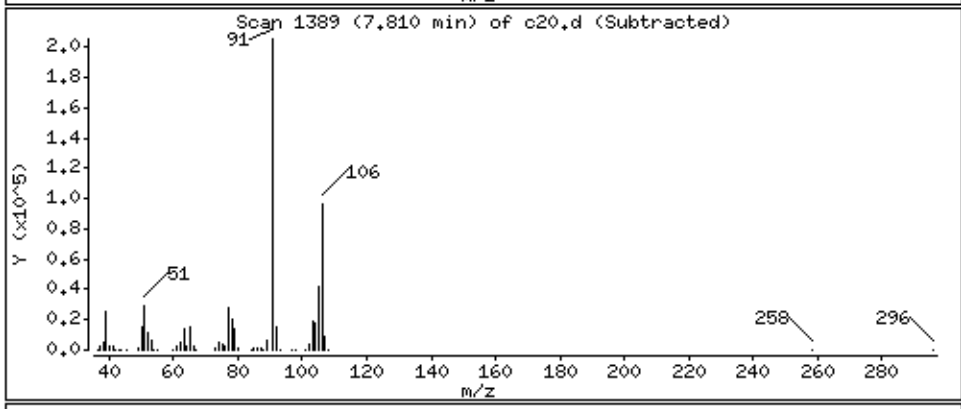
Column diameter: 0.18

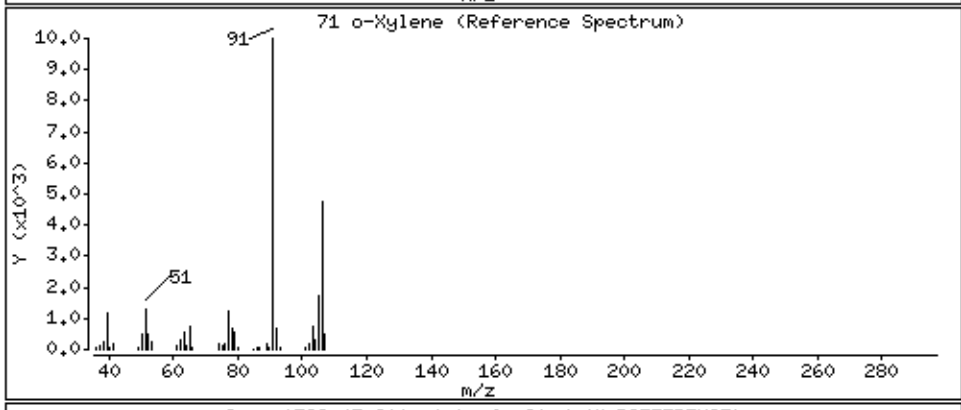
71 o-Xylene

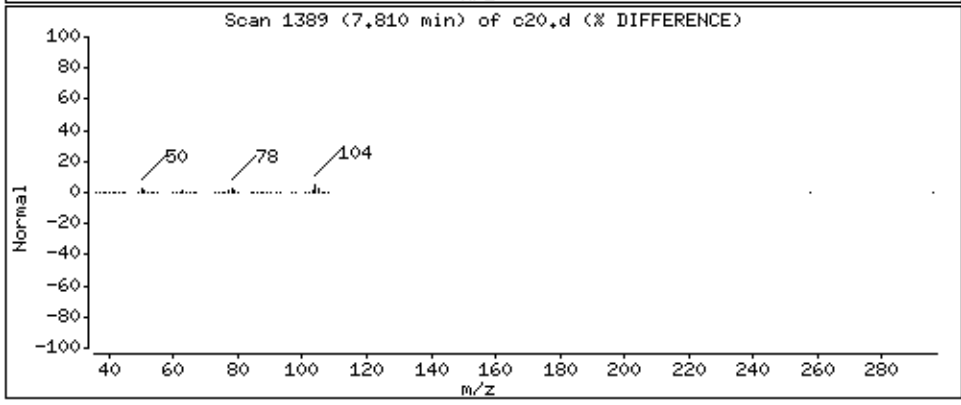
Concentration: 48.2 ppb

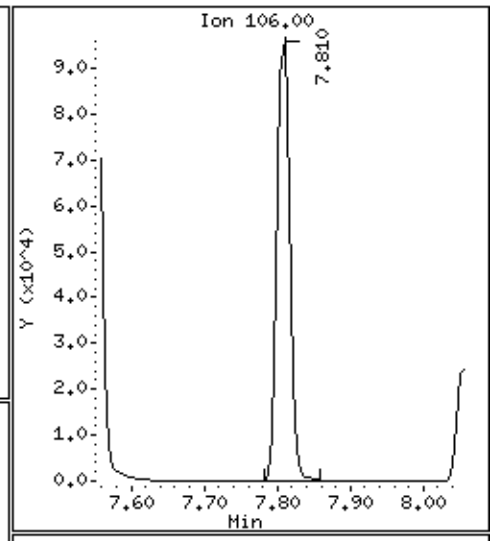
Review Code:

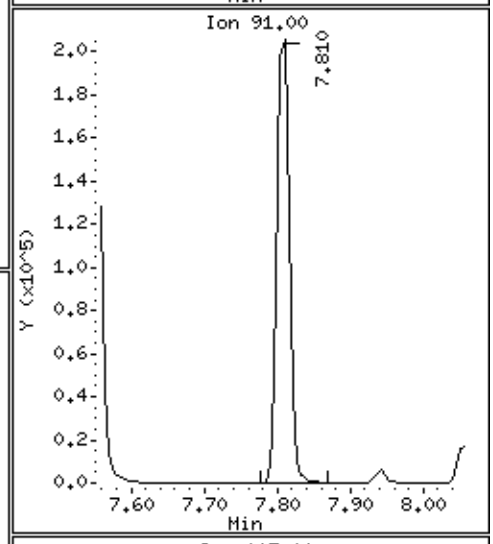


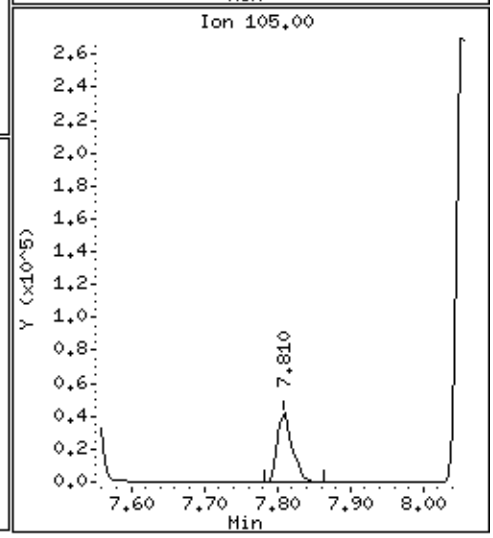












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

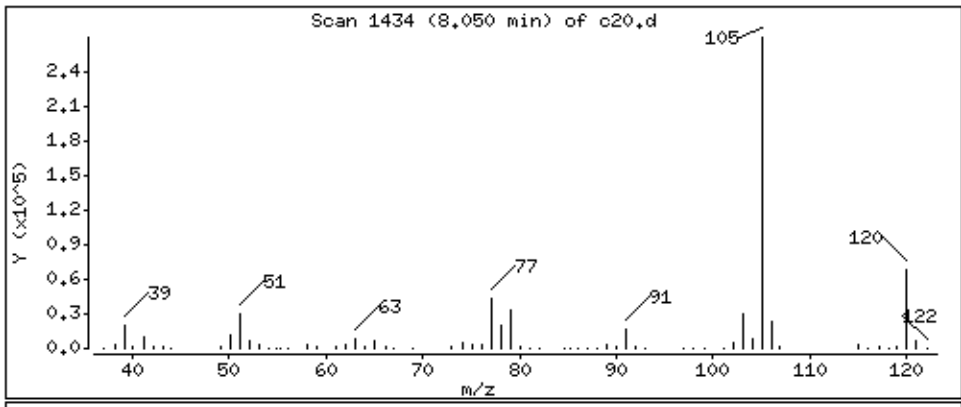
Column phase: DB-624

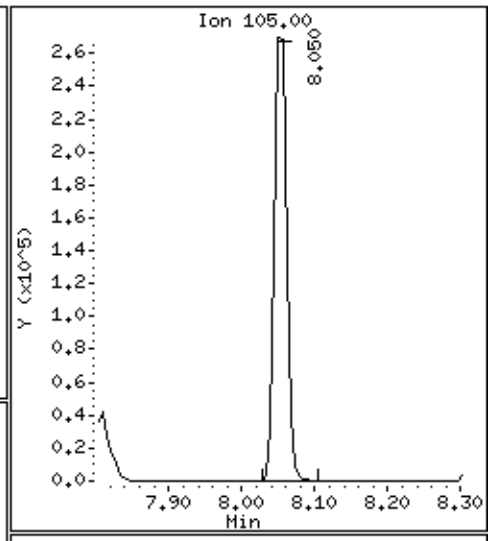
Column diameter: 0.18

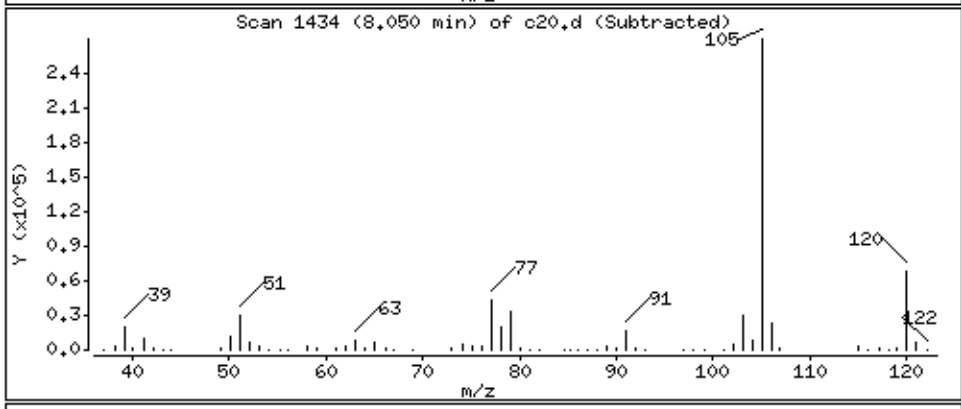
74 Isopropylbenzene

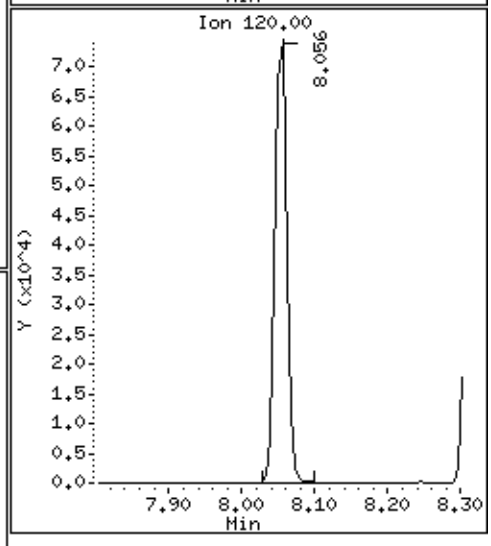
Concentration: 50.1 ppb

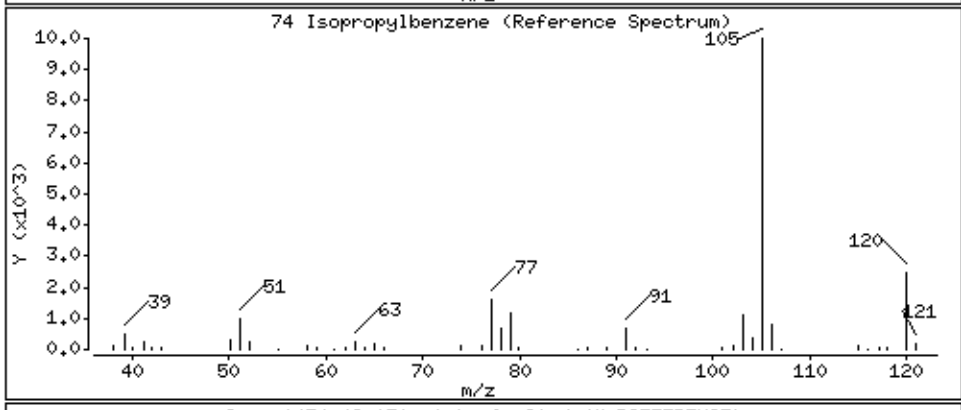
Review Code:

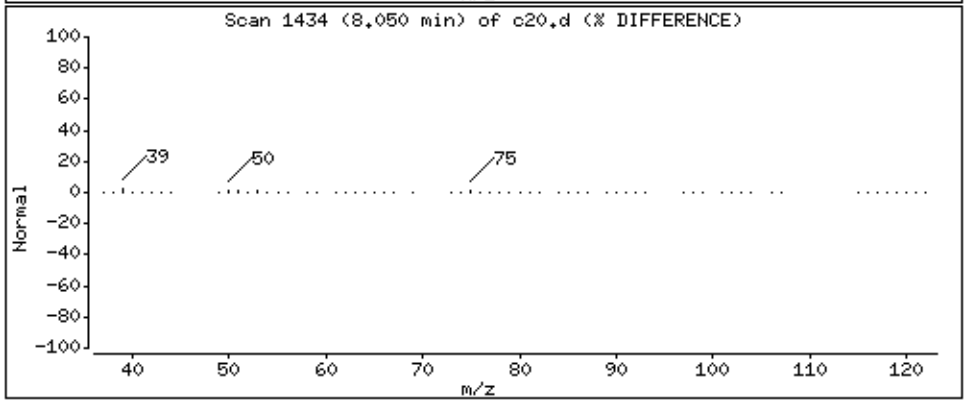












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

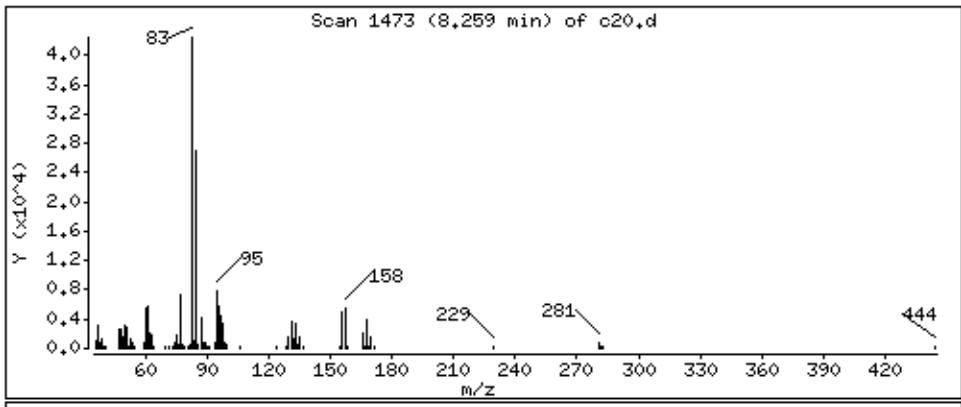
Column phase: DB-624

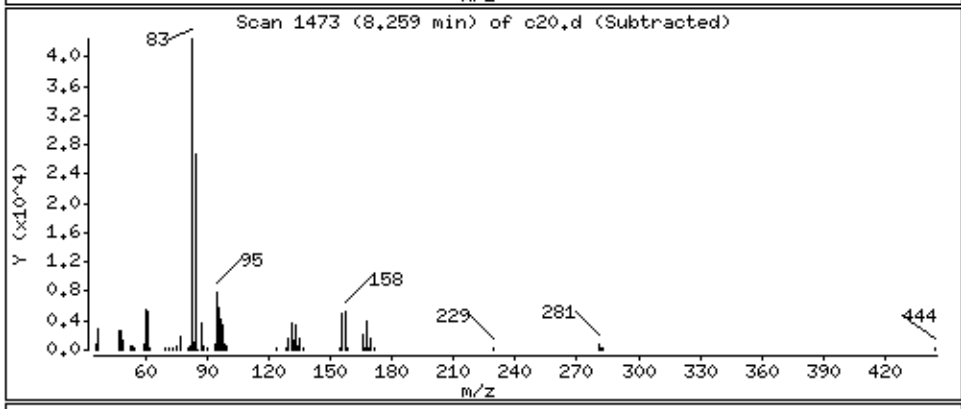
Column diameter: 0.18

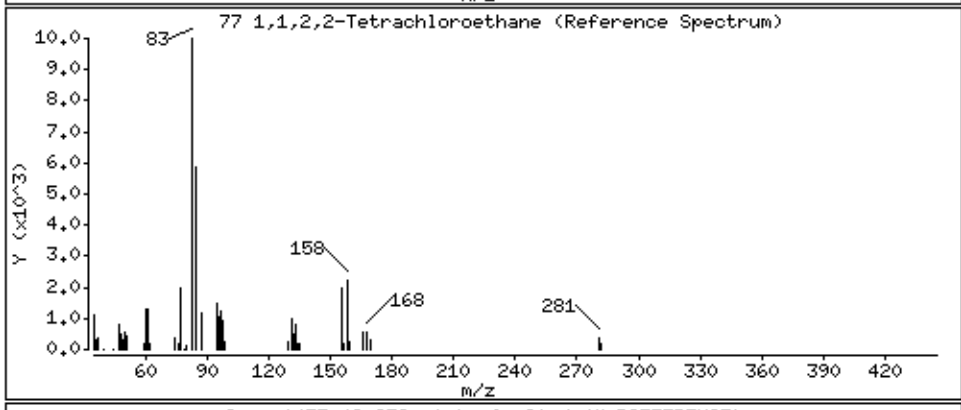
77 1,1,2,2-Tetrachloroethane

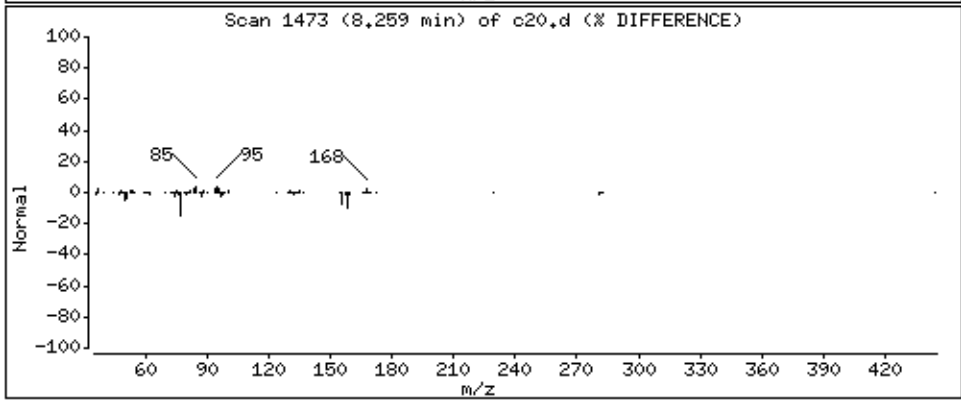
Concentration: 45.2 ppb

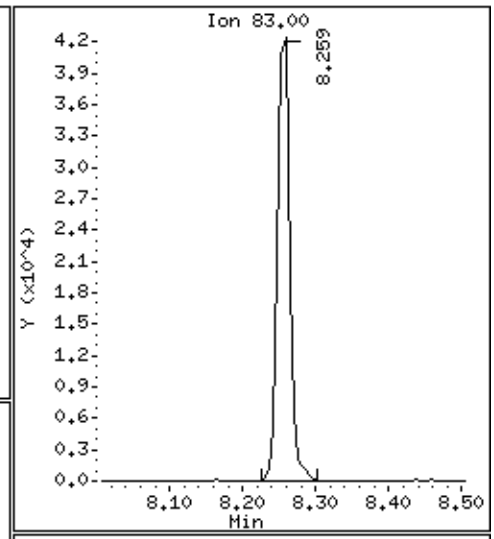
Review Code:

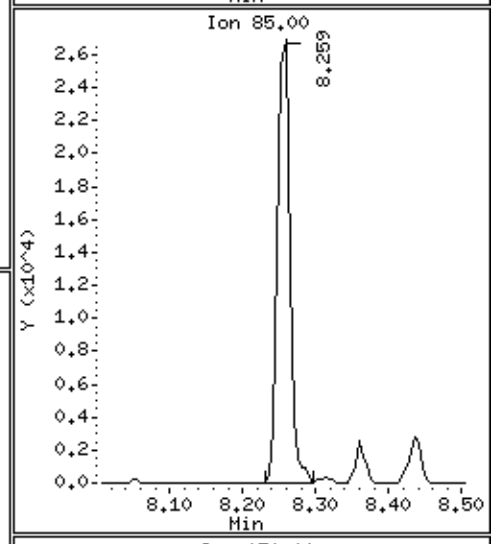


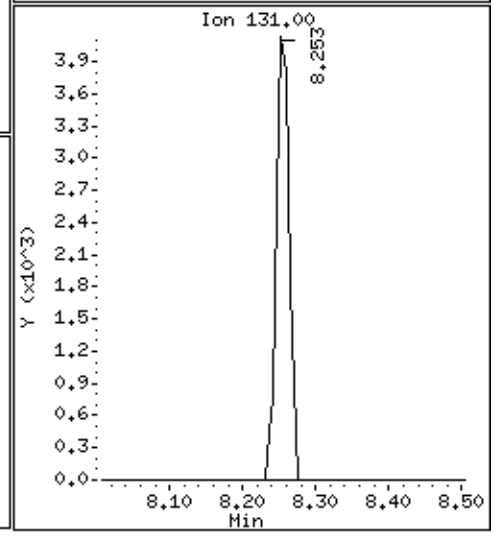












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

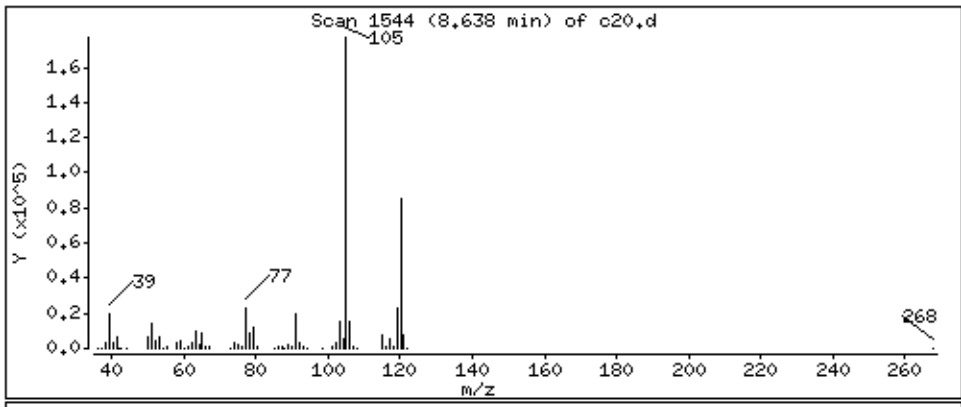
Column phase: DB-624

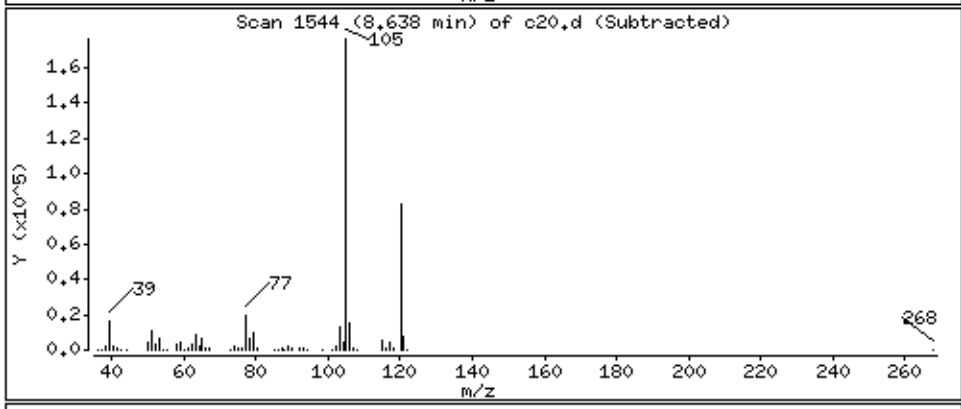
Column diameter: 0.18

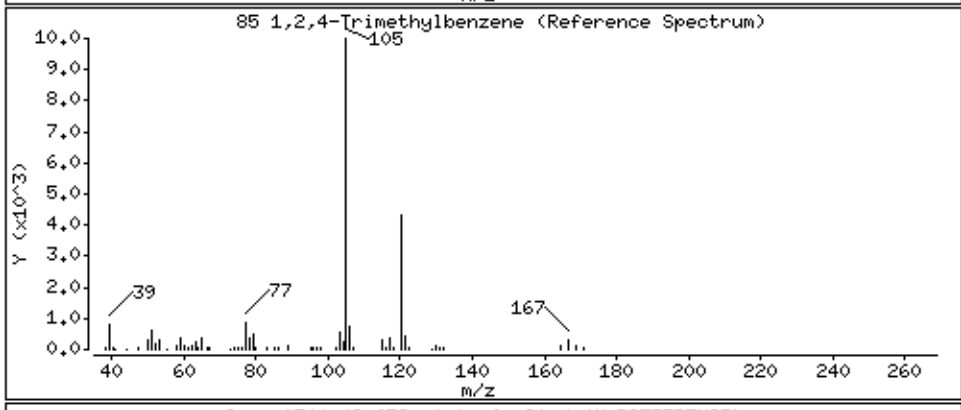
85 1,2,4-Trimethylbenzene

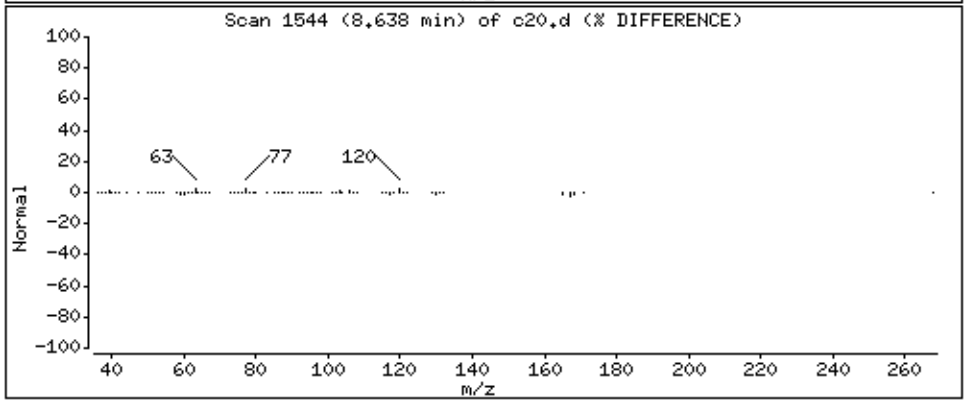
Concentration: 42.9 ppb

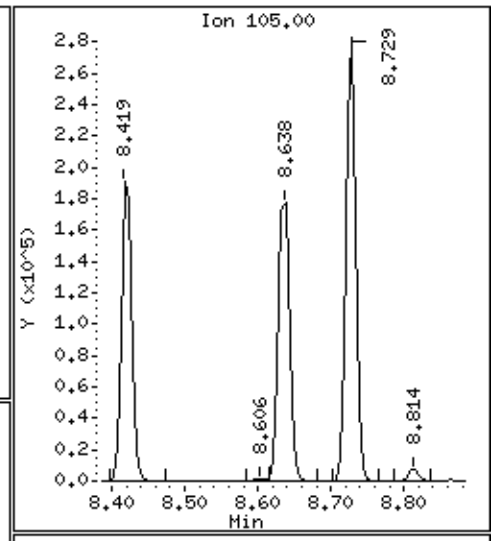
Review Code:

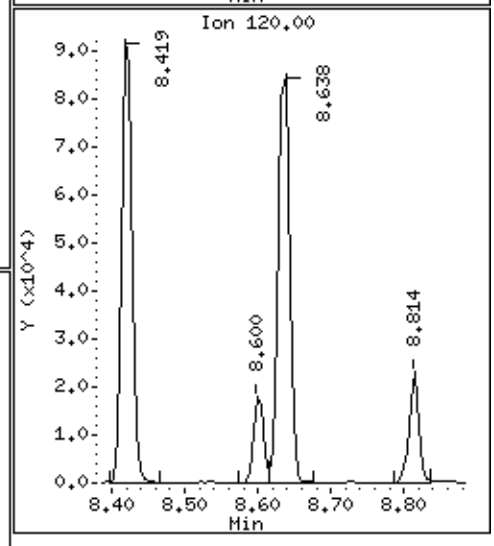












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c20.d

Date : 12-APR-2016 09:06

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516495,118316:5

Purge Volume: 5.0

Operator: jlz

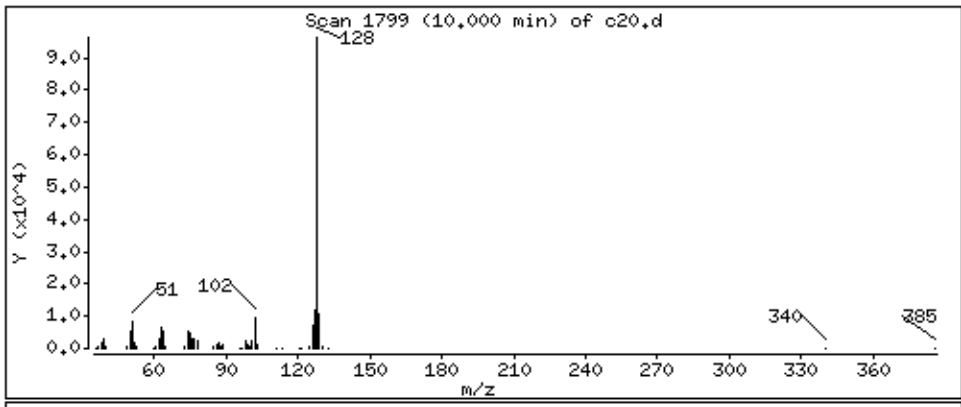
Column phase: DB-624

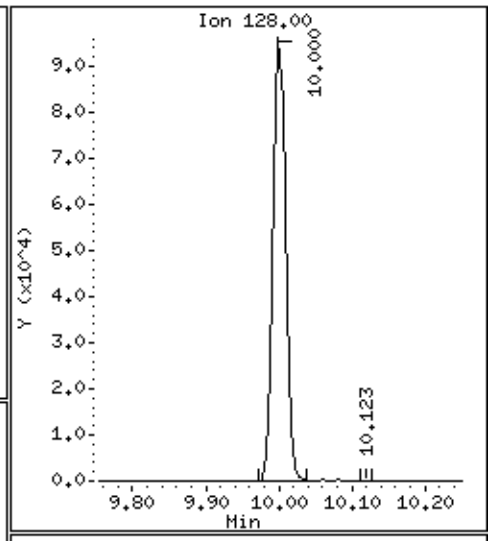
Column diameter: 0.18

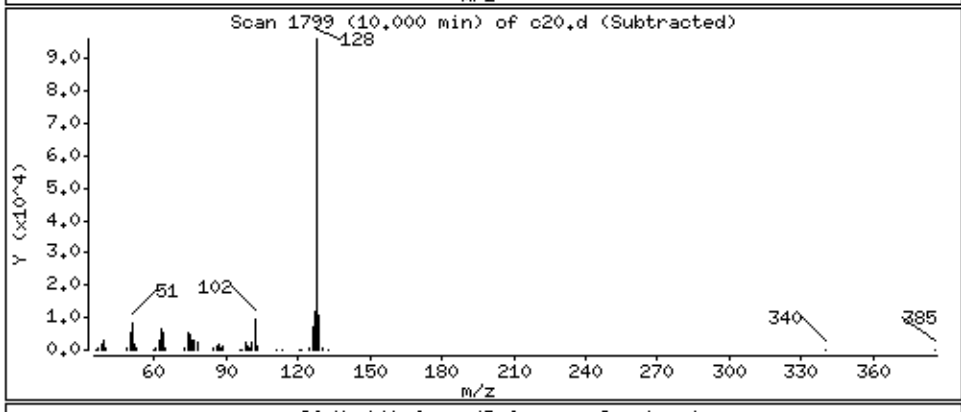
96 Naphthalene

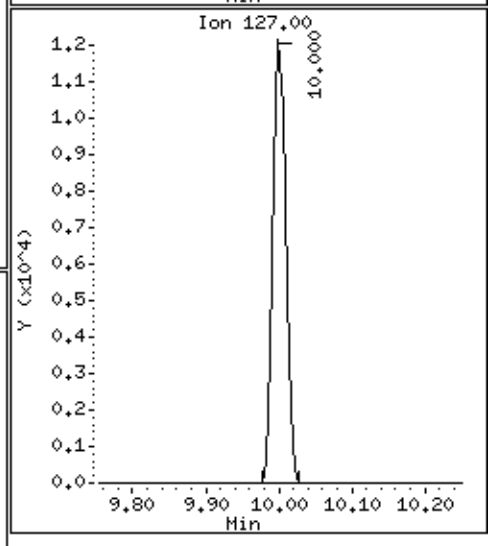
Concentration: 43.2 ppb

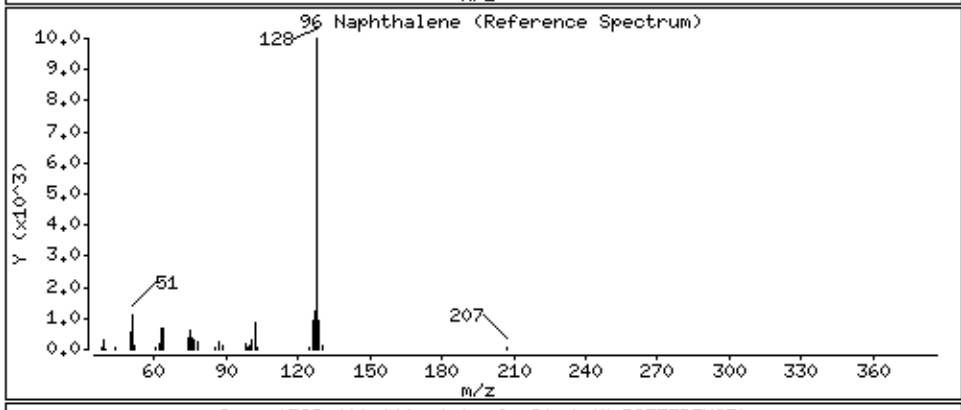
Review Code:

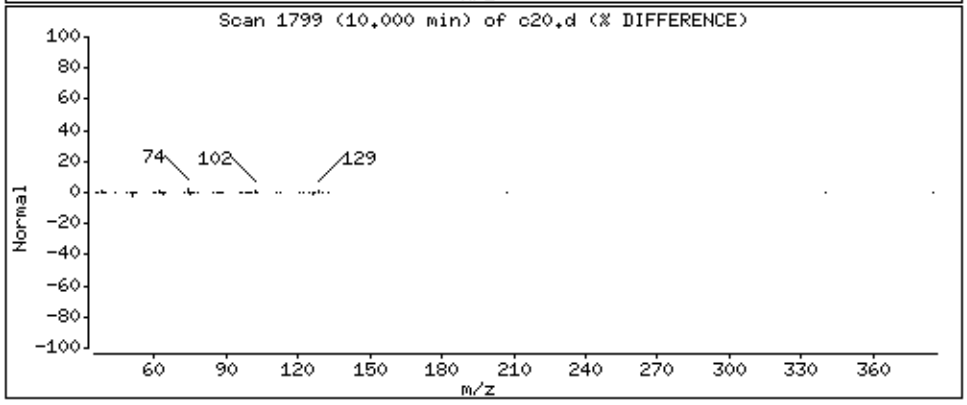












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c20.d
Injection Date: 12-APR-2016 09:06
Instrument: 50mv3a.i
Lab Sample ID: 1516495
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 09:38 Lab Sample ID: 1516496

Date Analyzed: 04/12/2016 09:38 Lab File ID: A041116.B\C21.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	49.3	
108-90-7	Chlorobenzene	49.0	
67-66-3	Chloroform	49.6	
75-35-4	1,1-Dichloroethene	51.2	
156-59-2	cis-1,2-Dichloroethene	50.2	
156-60-5	trans-1,2-Dichloroethene	47.9	
78-87-5	1,2-Dichloropropane	49.6	
100-41-4	Ethylbenzene	51.8	
98-82-8	Isopropylbenzene (Cumene)	52.5	
1634-04-4	Methyl-tert-butyl ether	47.4	
79-34-5	1,1,2,2-Tetrachloroethane	45.2	
127-18-4	Tetrachloroethene	52.2	
108-88-3	Toluene	46.1	
71-55-6	1,1,1-Trichloroethane	52.5	
79-01-6	Trichloroethene	49.8	
75-01-4	Vinyl chloride	50.2	
1330-20-7	Xylene (Total)	153	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d
Lab Smp Id: 1516496 Client Smp ID: MW-0503-S1(033016)P
Inj Date : 12-APR-2016 09:38
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516496,118316:5
Misc Info : 88898
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 89 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

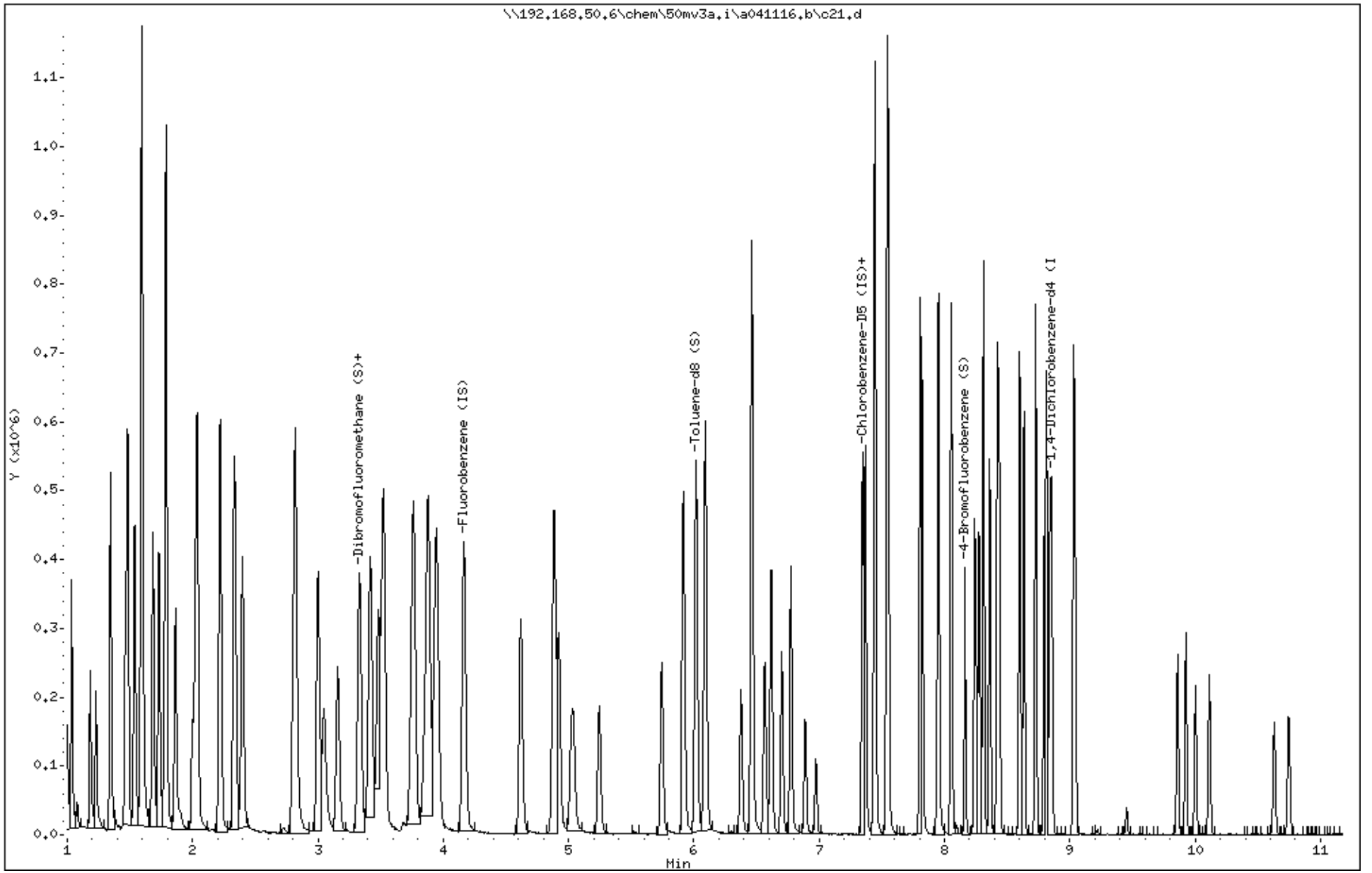
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.037	1.033	(0.249)	176142	50.1681	50.2	
	11 1,1-Dichloroethene	96	1.592	1.594	(0.382)	127072	51.2492	51.2	
	20 Methyl-tert-butyl ether	73	2.025	2.027	(0.486)	230484	47.4157	47.4	
	22 1,2-Dichloroethene (trans)	96	2.036	2.038	(0.489)	109164	47.8959	47.9	
	28 1,2-Dichloroethene (cis)	96	2.815	2.812	(0.676)	113523	50.1504	50.2	
	34 Chloroform	83	3.157	3.159	(0.758)	178439	49.5732	49.6	
	36 1,1,1-Trichloroethane	97	3.334	3.330	(0.800)	163429	52.5399	52.5	
$	35 Dibromofluoromethane (S)	113	3.328	3.330	(0.799)	93898	50.4413	50.4	
	41 Benzene	78	3.766	3.763	(0.904)	422283	49.3006	49.3	
*	45 Fluorobenzene (IS)	96	4.167	4.163	(1.000)	413148	50.0000		
	46 Trichloroethene	95	4.615	4.612	(1.108)	104290	49.8026	49.8	
	48 1,2-Dichloropropane	63	4.920	4.922	(1.181)	97039	49.5931	49.6	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	322777	49.4779	49.5	
	57 Toluene	91	6.090	6.091	(0.829)	385880	46.1404	46.1	
	61 Tetrachloroethene	166	6.618	6.615	(0.901)	86712	52.1910	52.2	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	189891	50.0000		
	67 Chlorobenzene	112	7.366	7.368	(1.003)	189481	49.0486	49.0	
	69 Ethylbenzene	106	7.446	7.448	(1.014)	113491	51.8497	51.8	
	70 m&p-Xylene	106	7.548	7.544	(1.028)	270958	101.535	102	
	71 o-Xylene	106	7.809	7.806	(1.063)	121232	51.2780	51.3	
	74 Isopropylbenzene	105	8.055	8.052	(1.097)	321737	52.4840	52.5	
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	72151	45.9860	46.0	
	77 1,1,2,2-Tetrachloroethane	83	8.258	8.255	(0.934)	48303	45.2484	45.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	201446	46.2502	46.2	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	66929	50.0000		
96 Naphthalene	128	9.999	10.001	(1.131)	111647	43.2354	43.2	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d
Date : 12-APR-2016 09:38
Client ID: MW-0503-S1(033016)P
Sample Info: 1516496,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

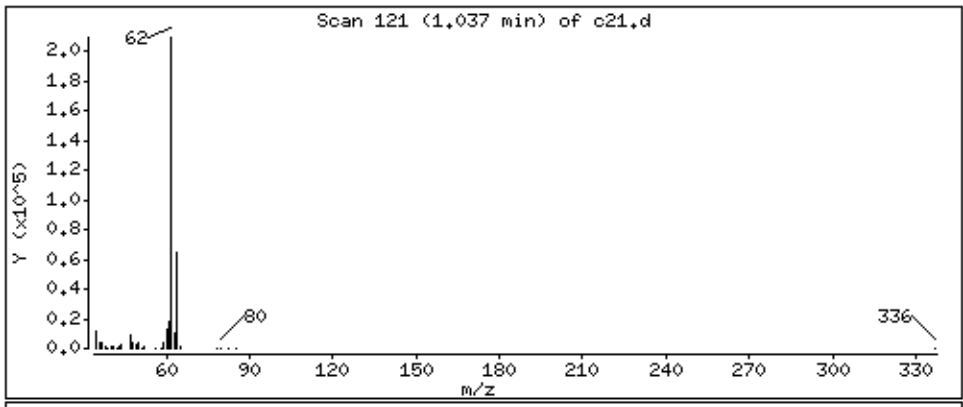
Column phase: DB-624

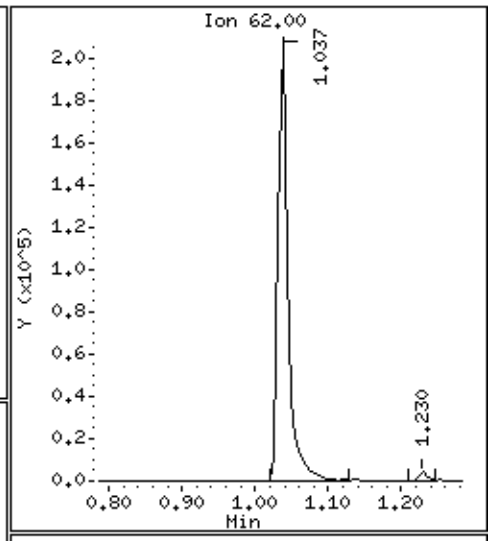
Column diameter: 0.18

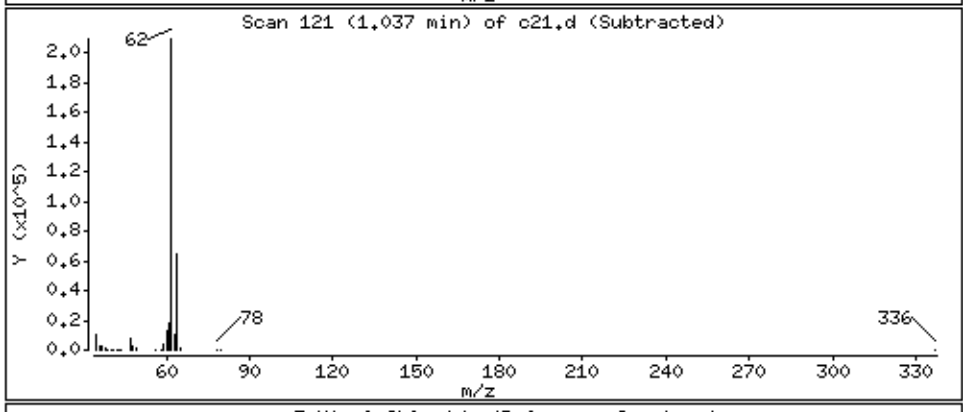
3 Vinyl Chloride

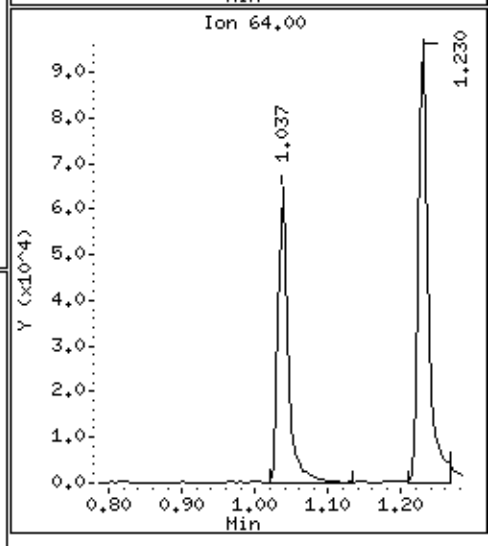
Concentration: 50.2 ppb

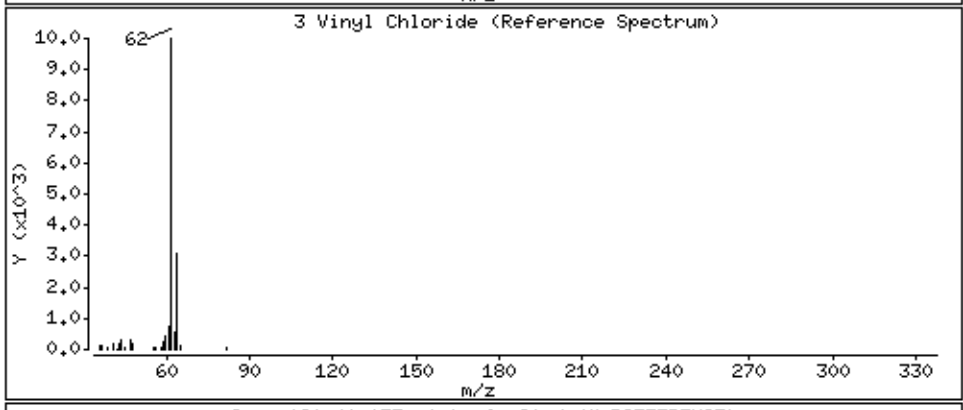
Review Code:

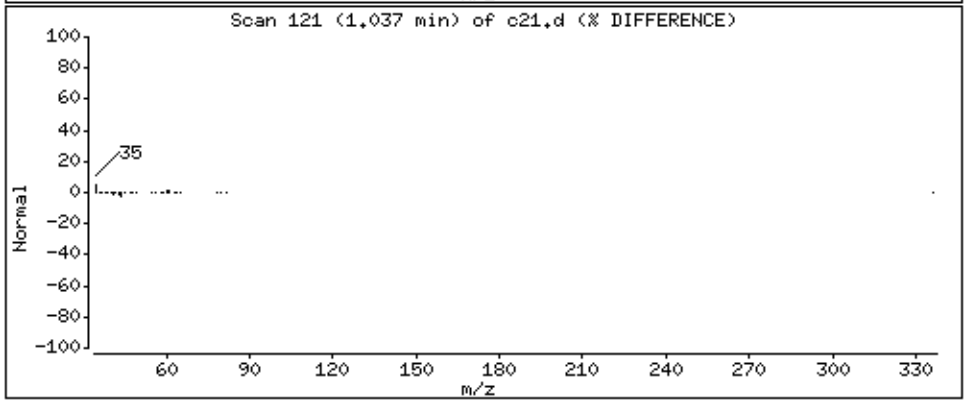












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

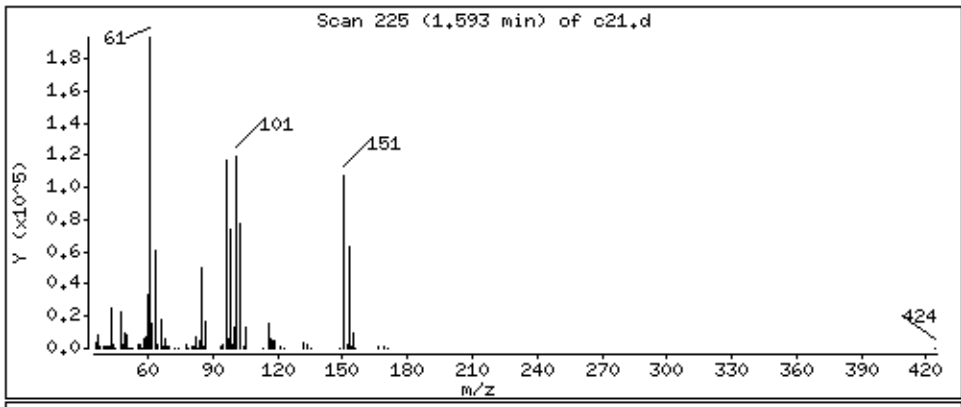
Column phase: DB-624

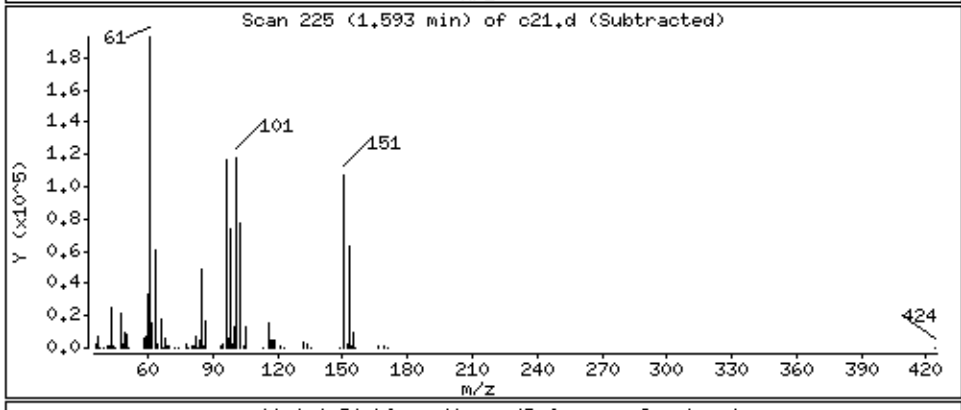
Column diameter: 0.18

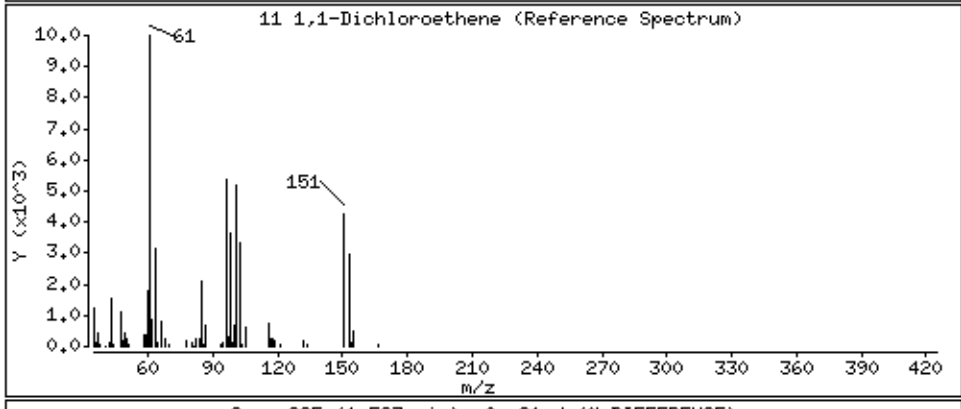
11 1,1-Dichloroethene

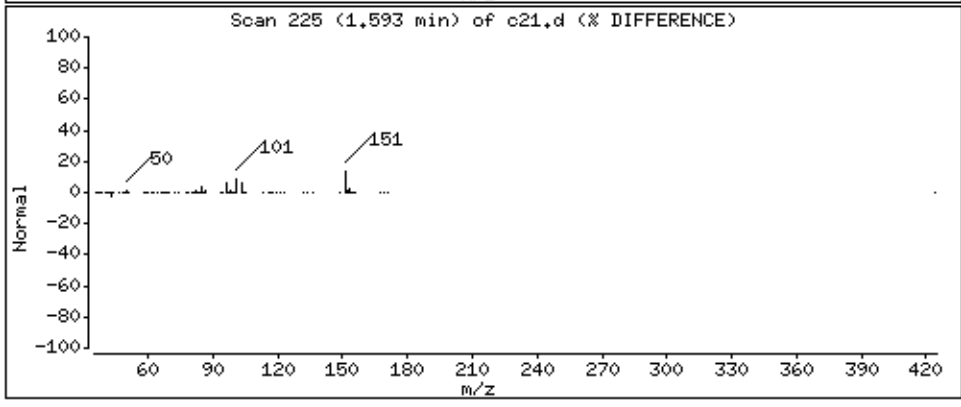
Concentration: 51.2 ppb

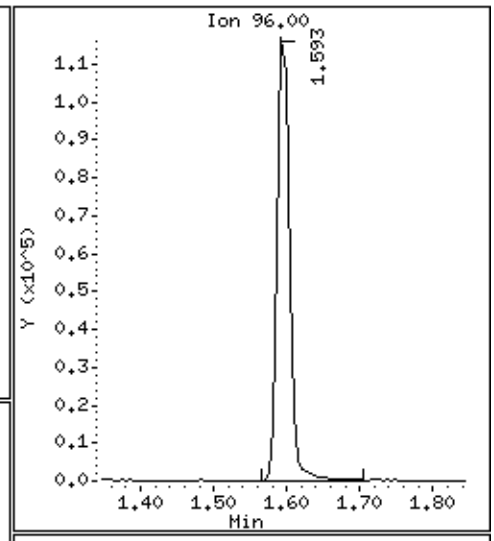
Review Code:

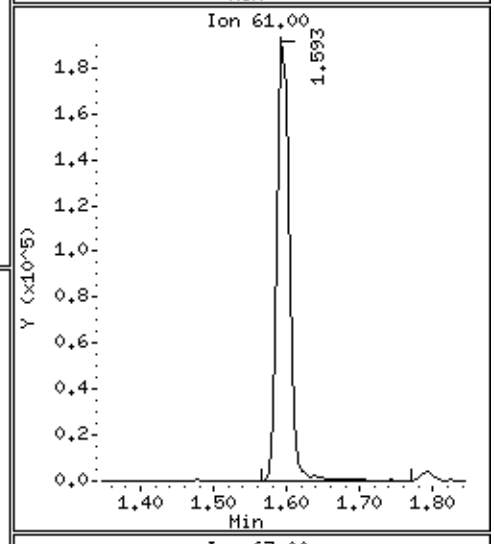


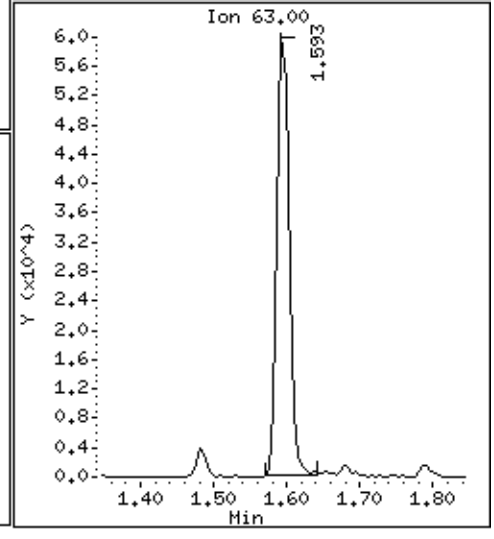












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

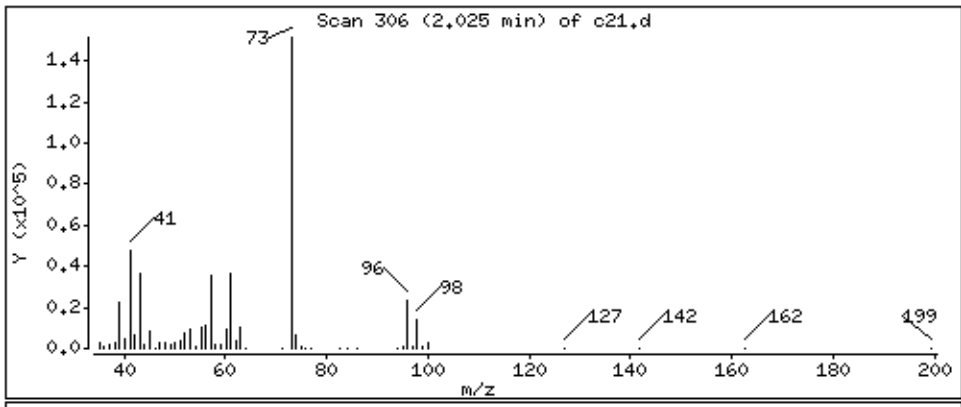
Column phase: DB-624

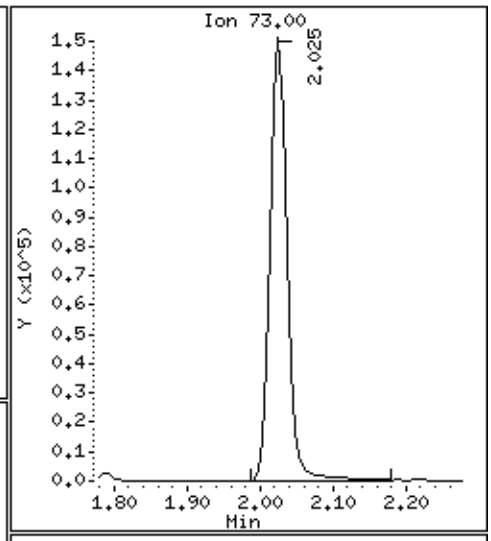
Column diameter: 0.18

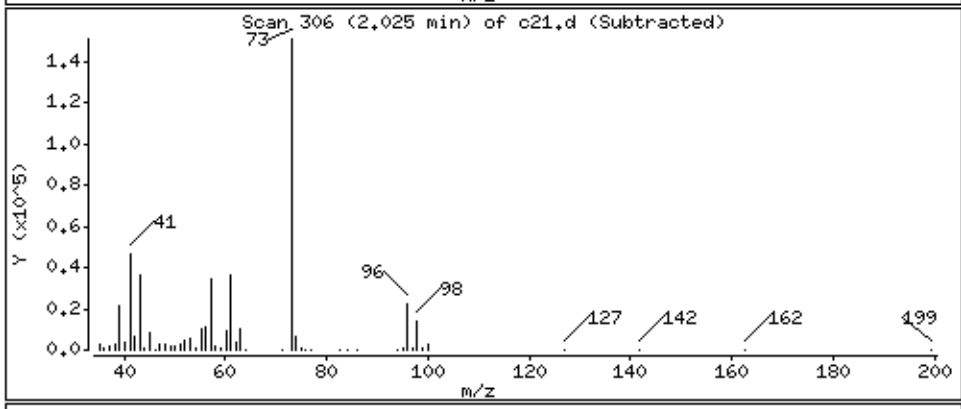
20 Methyl-tert-butyl ether

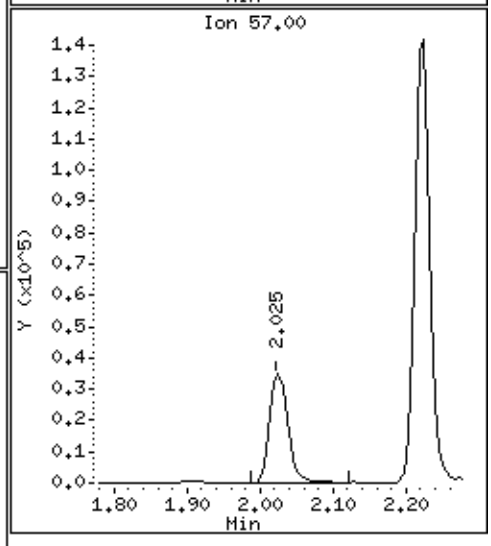
Concentration: 47.4 ppb

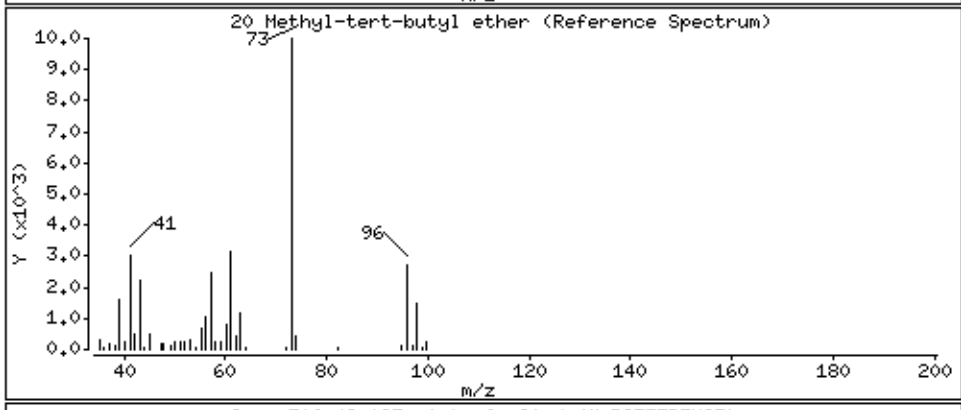
Review Code:

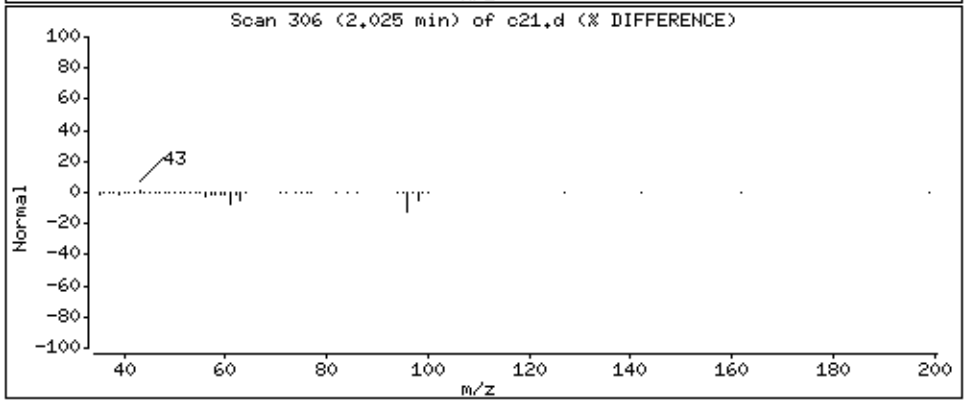












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

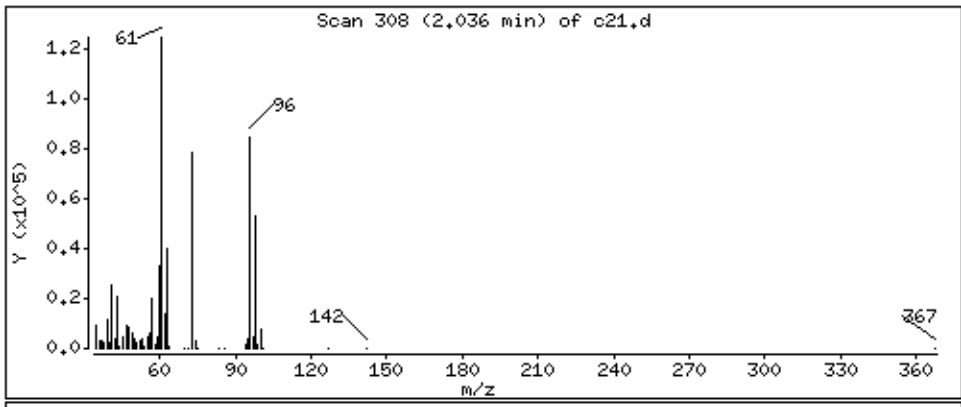
Column phase: DB-624

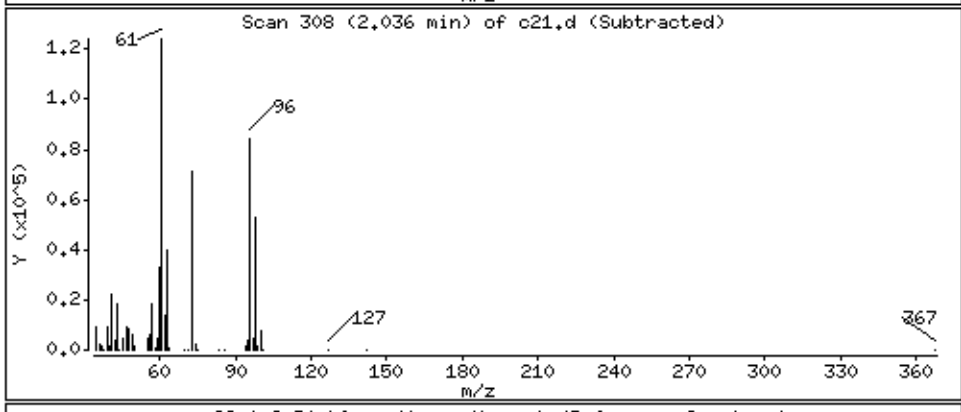
Column diameter: 0.18

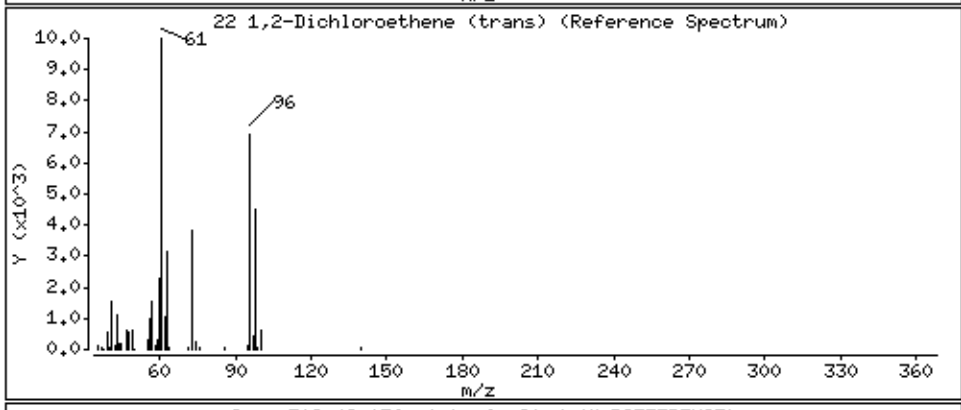
22 1,2-Dichloroethene (trans)

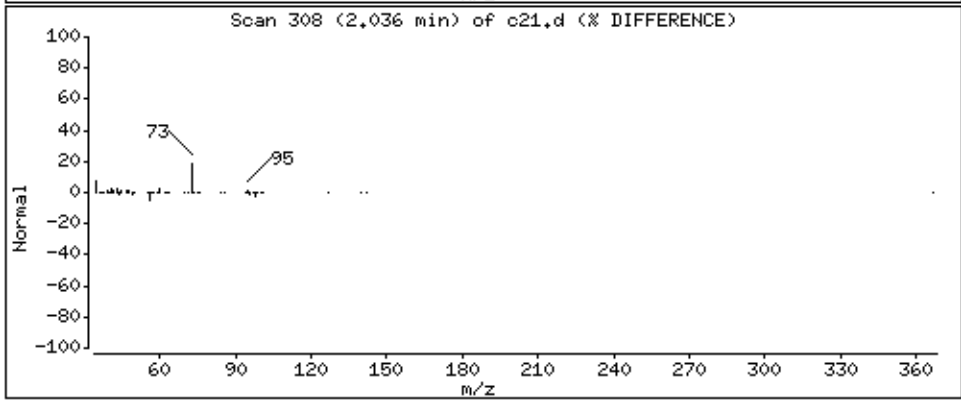
Concentration: 47.9 ppb

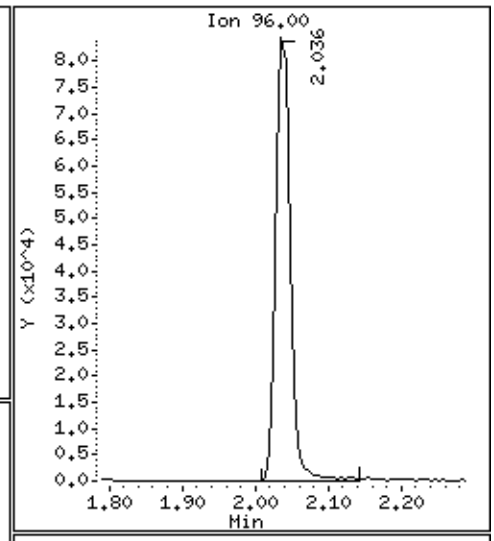
Review Code:

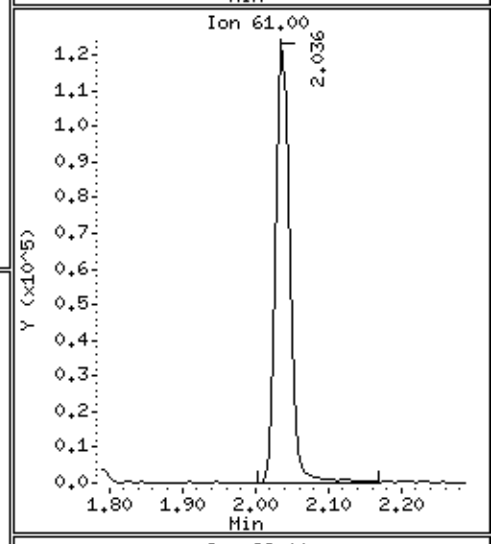


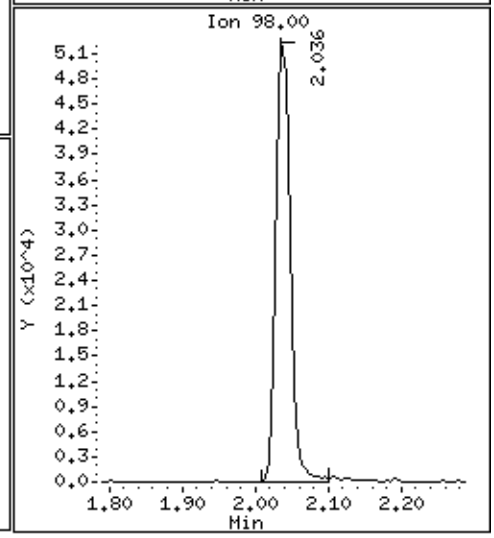












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

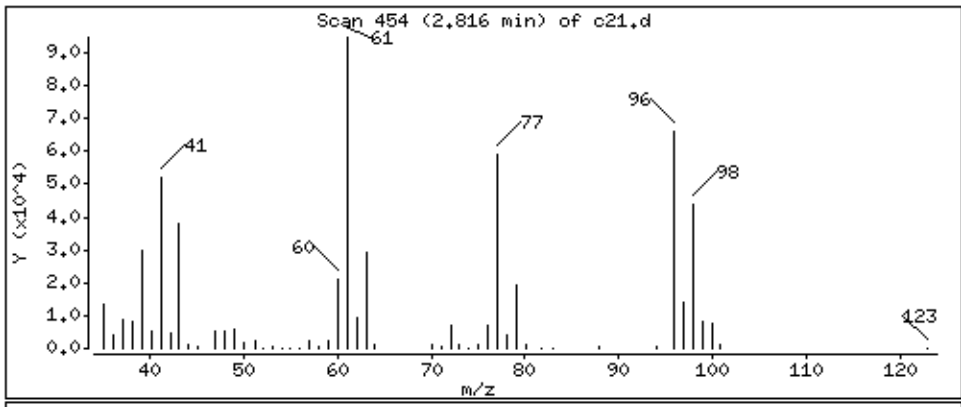
Column phase: DB-624

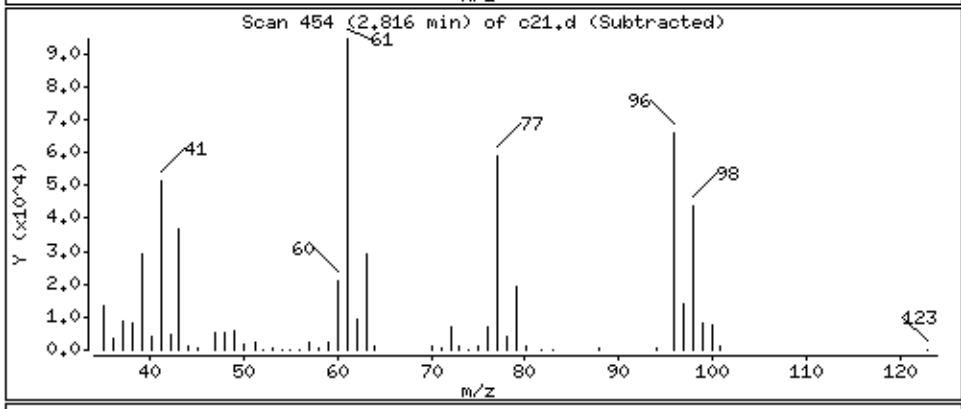
Column diameter: 0.18

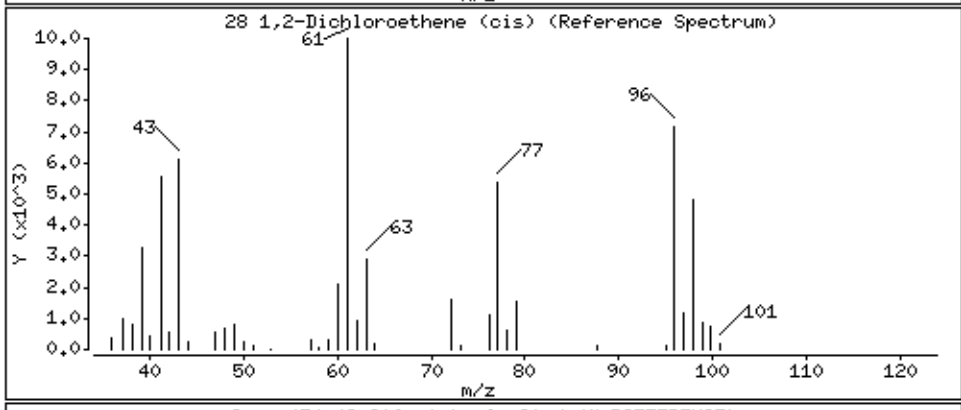
28 1,2-Dichloroethene (cis)

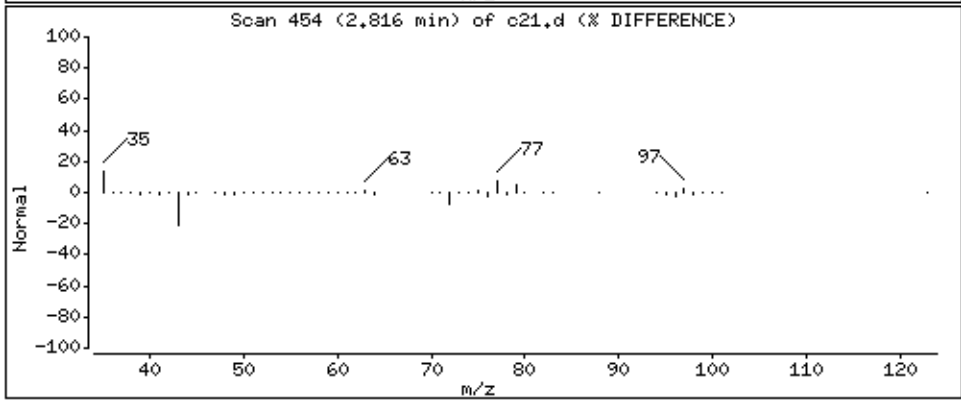
Concentration: 50.2 ppb

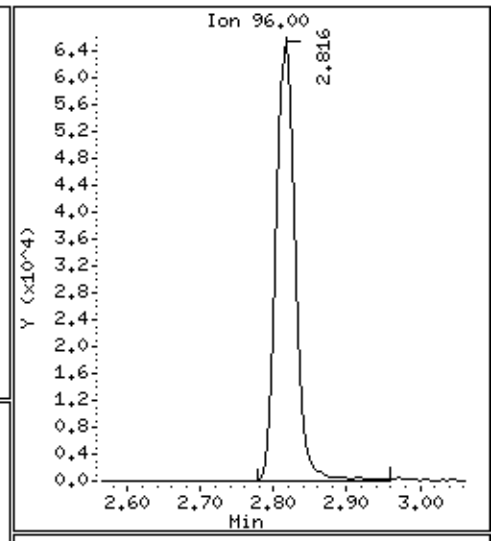
Review Code:

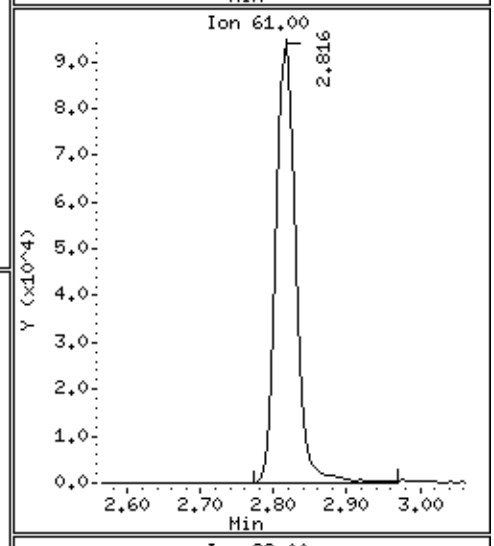


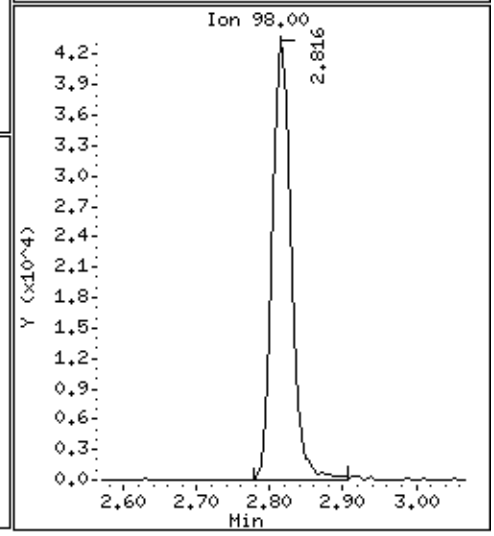












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

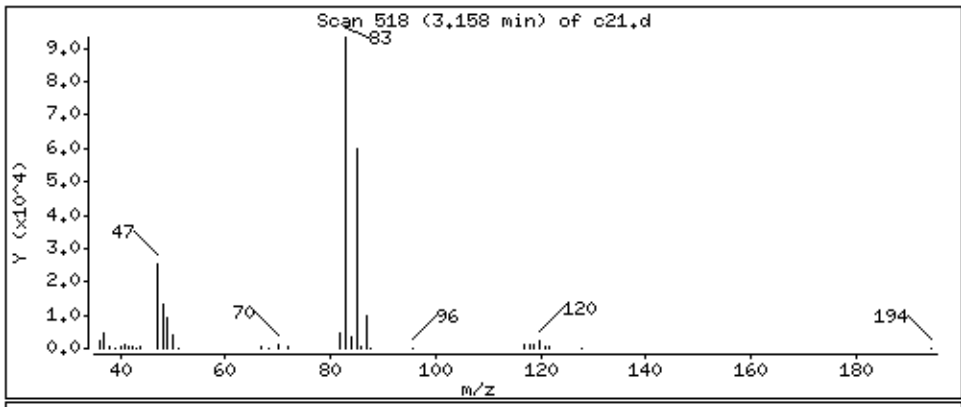
Column phase: DB-624

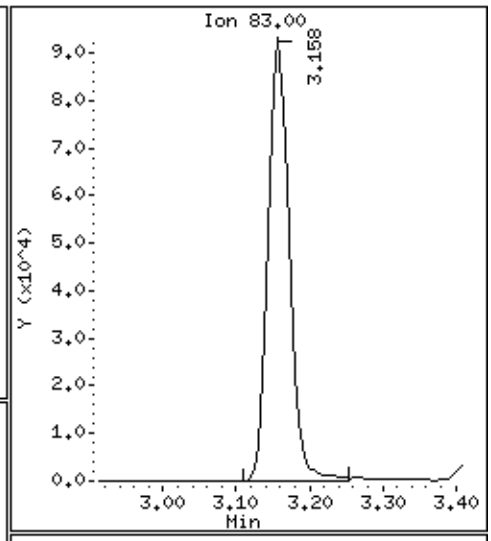
Column diameter: 0.18

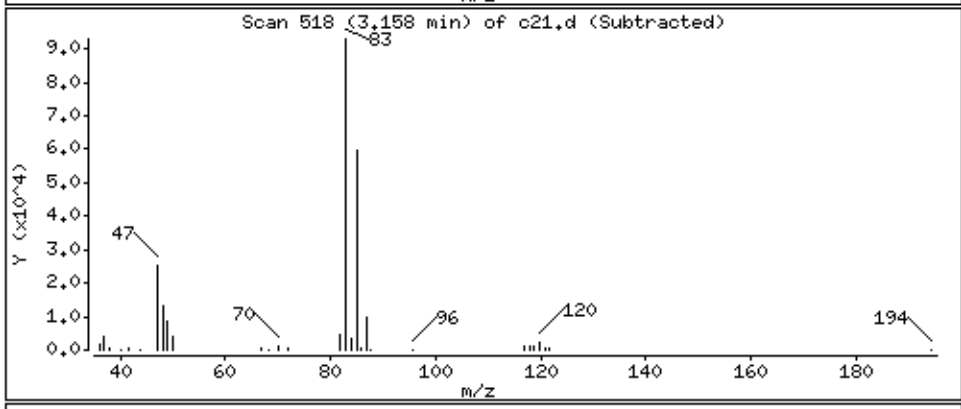
34 Chloroform

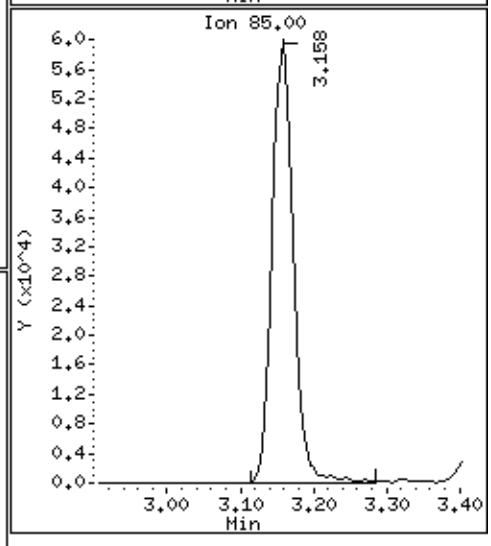
Concentration: 49.6 ppb

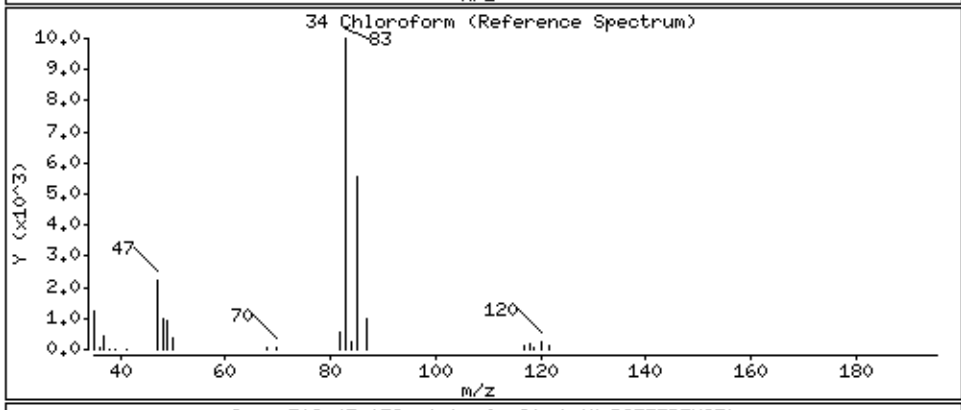
Review Code:

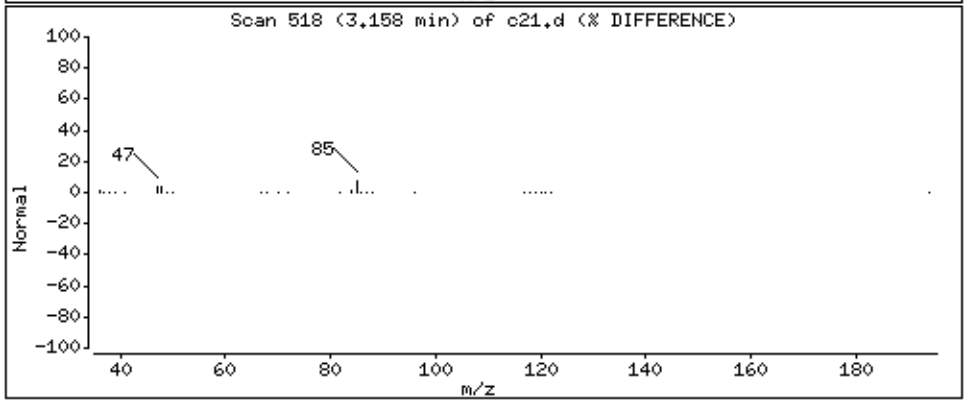












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

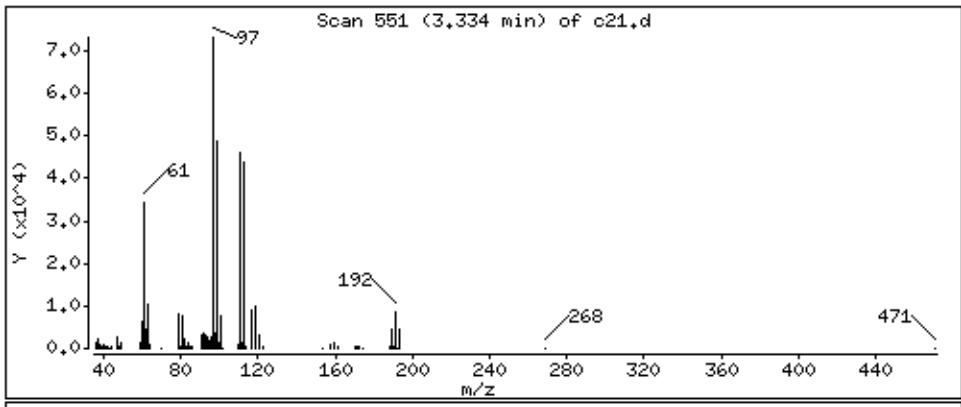
Column phase: DB-624

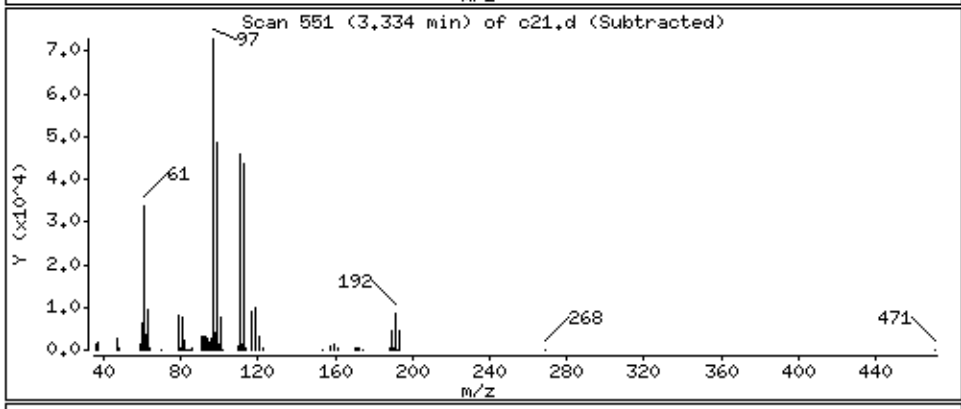
Column diameter: 0.18

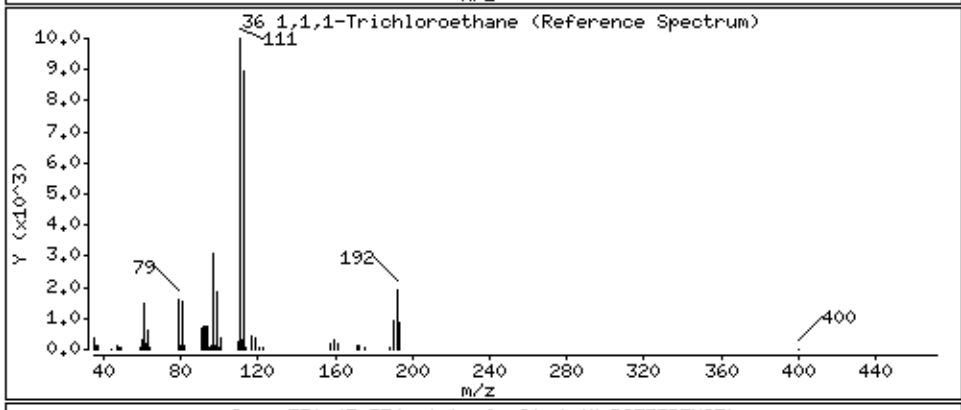
36 1,1,1-Trichloroethane

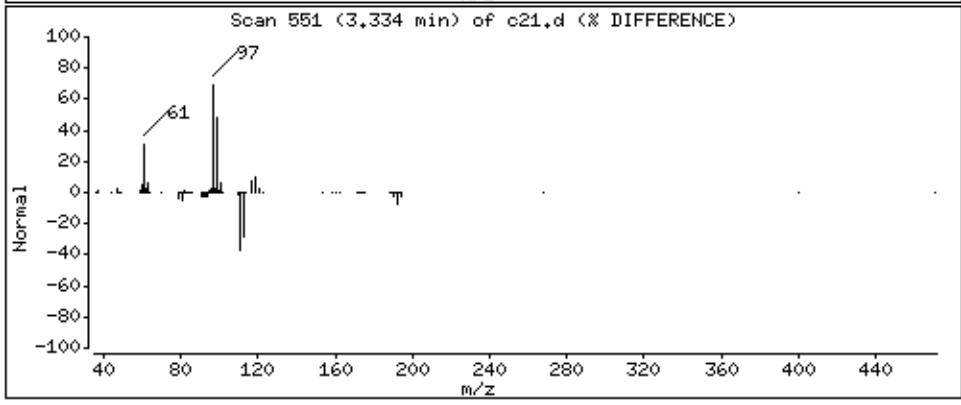
Concentration: 52.5 ppb

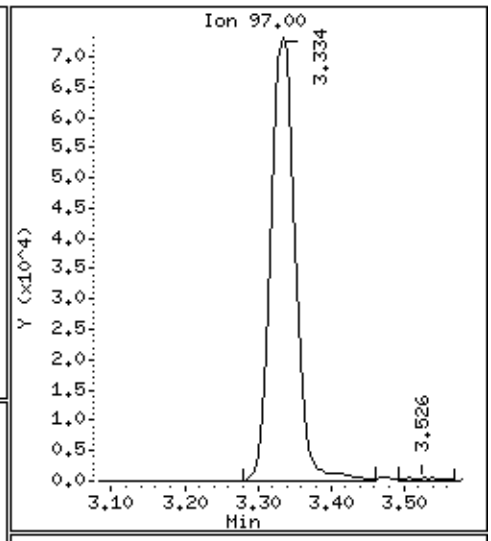
Review Code:

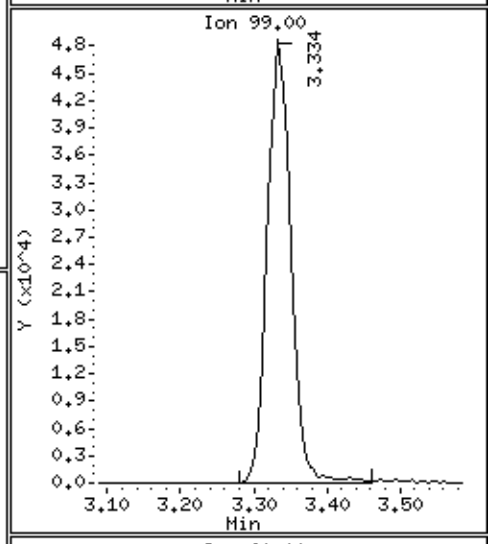


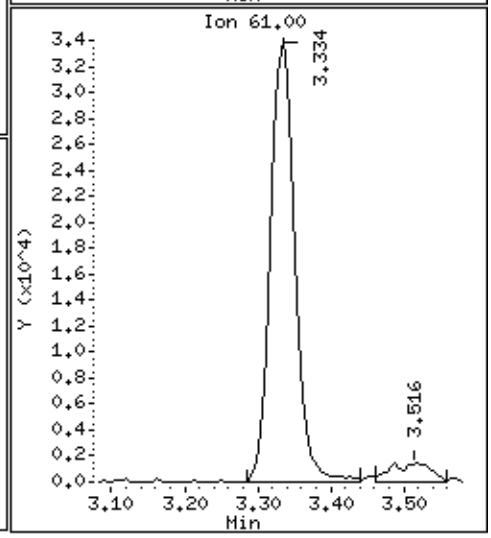












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

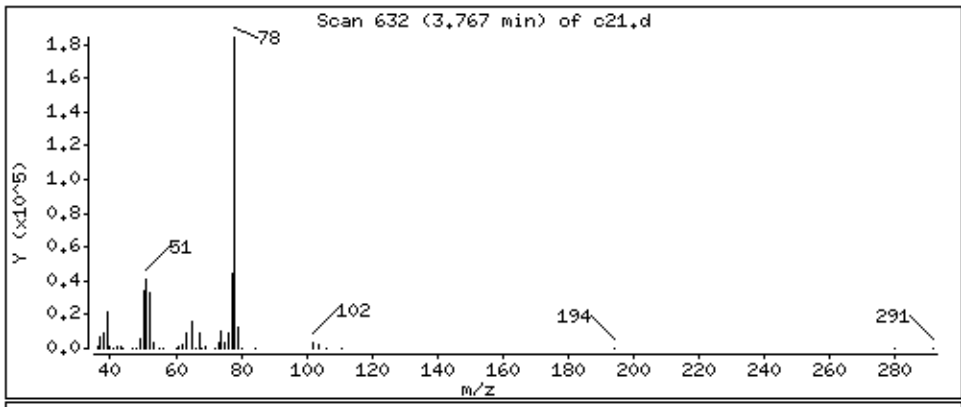
Column phase: DB-624

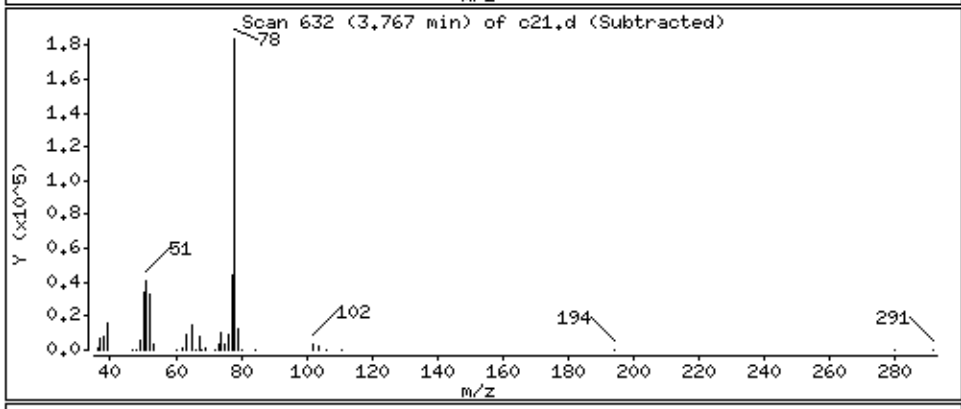
Column diameter: 0.18

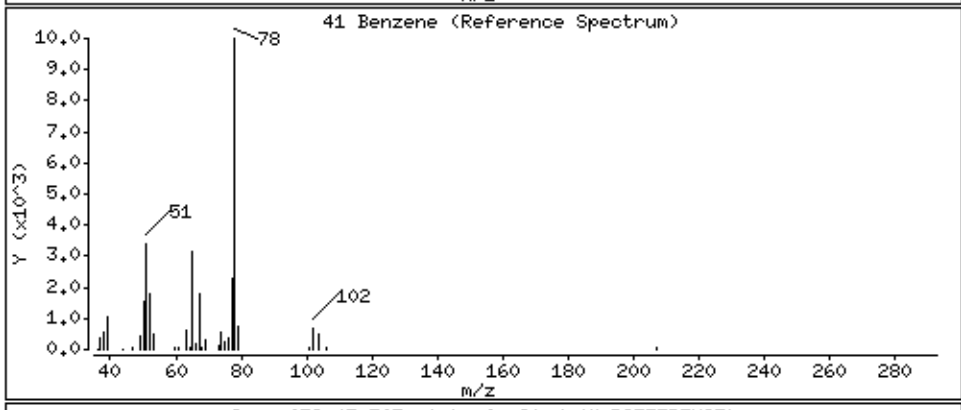
41 Benzene

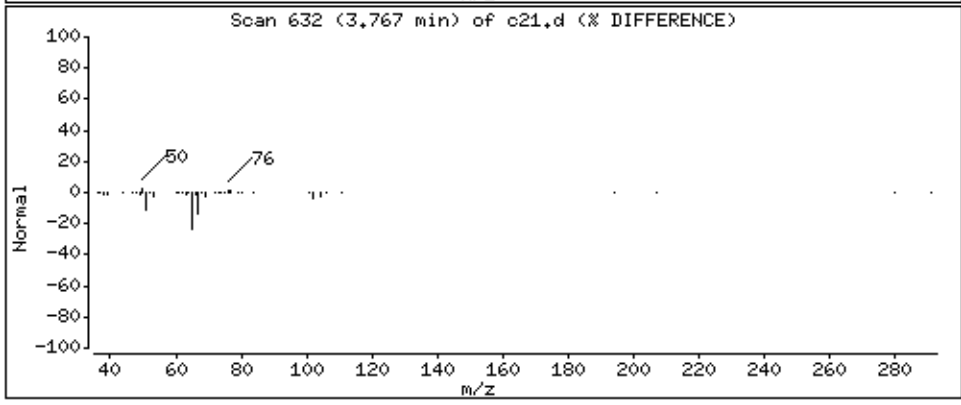
Concentration: 49.3 ppb

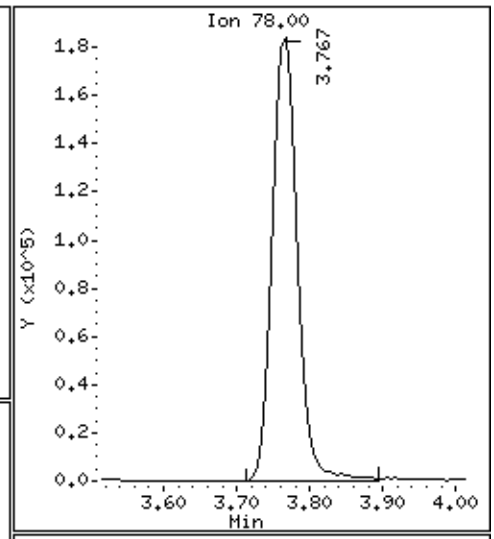
Review Code:

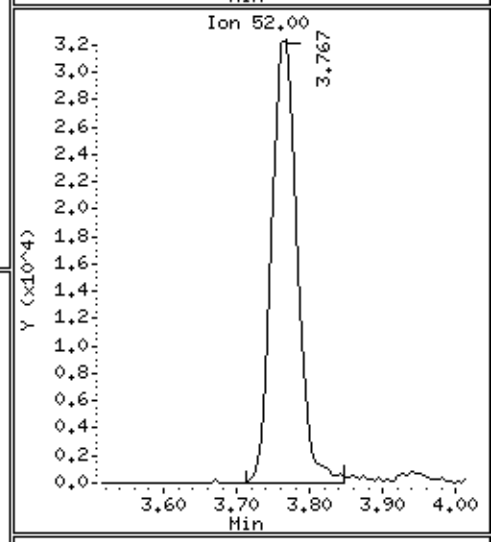


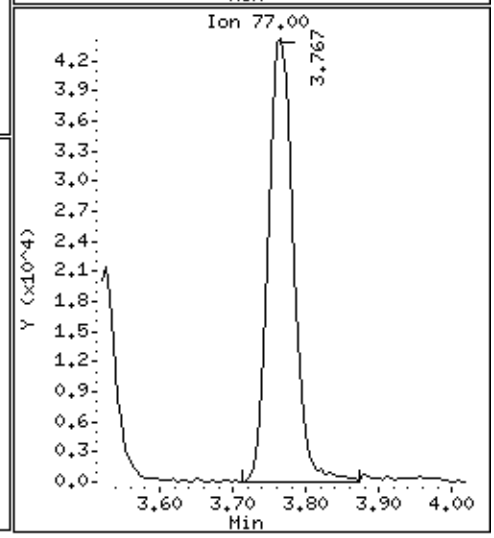












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

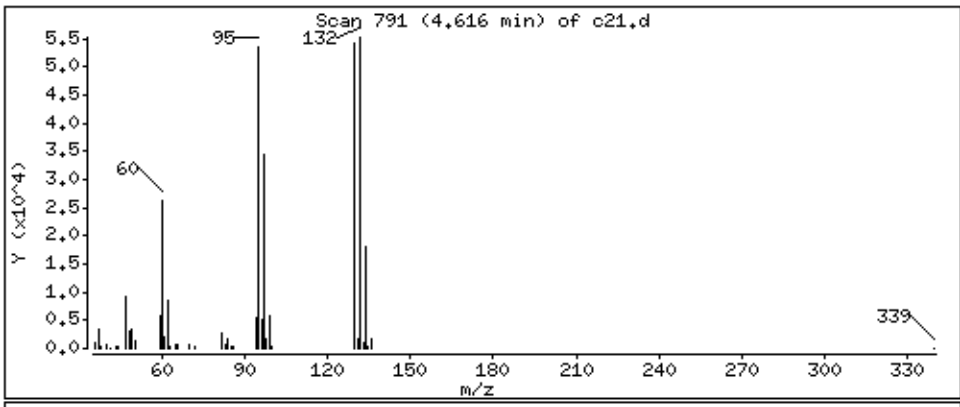
Column phase: DB-624

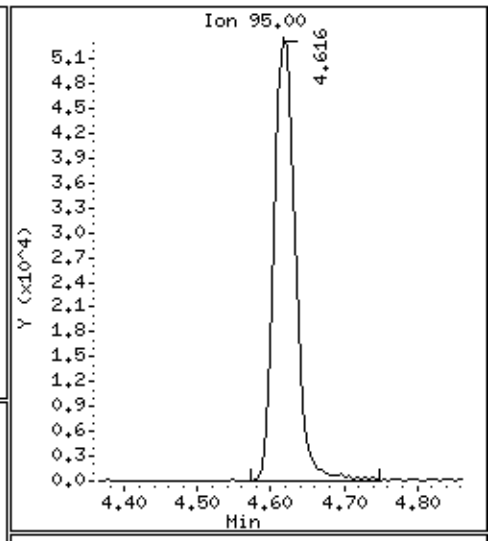
Column diameter: 0.18

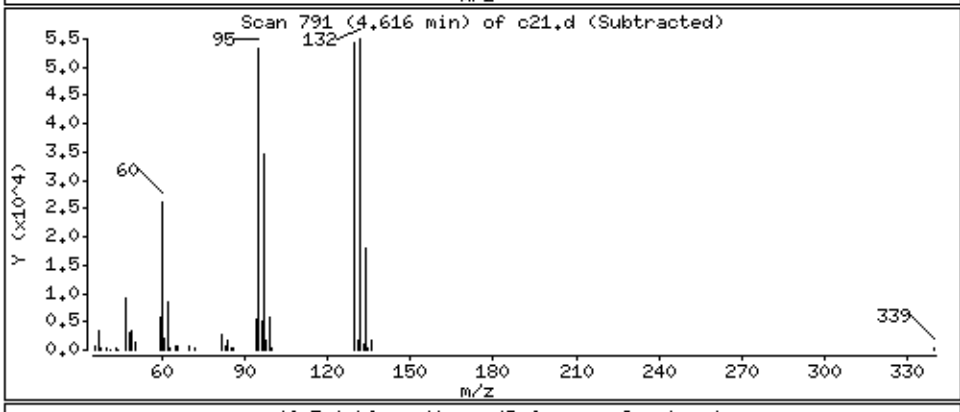
46 Trichloroethene

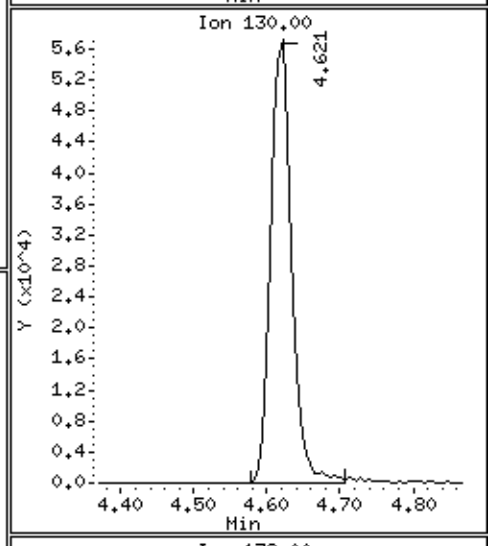
Concentration: 49.8 ppb

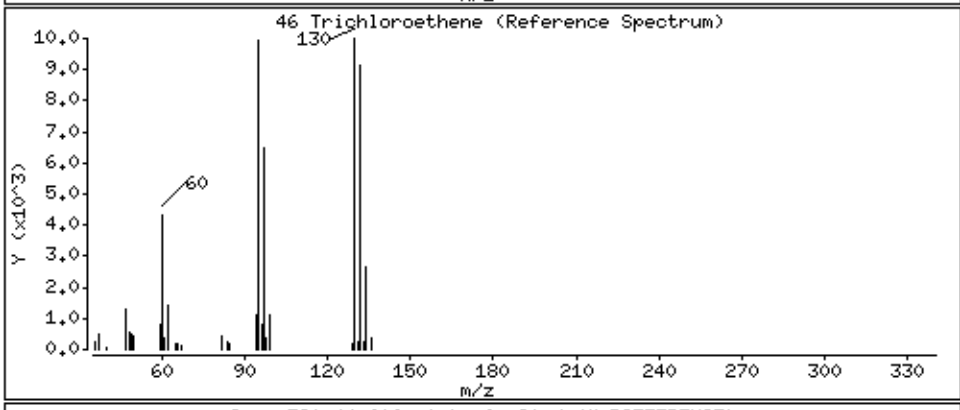
Review Code:

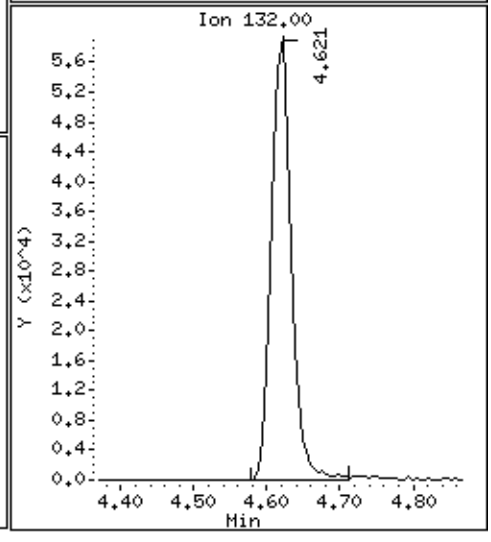


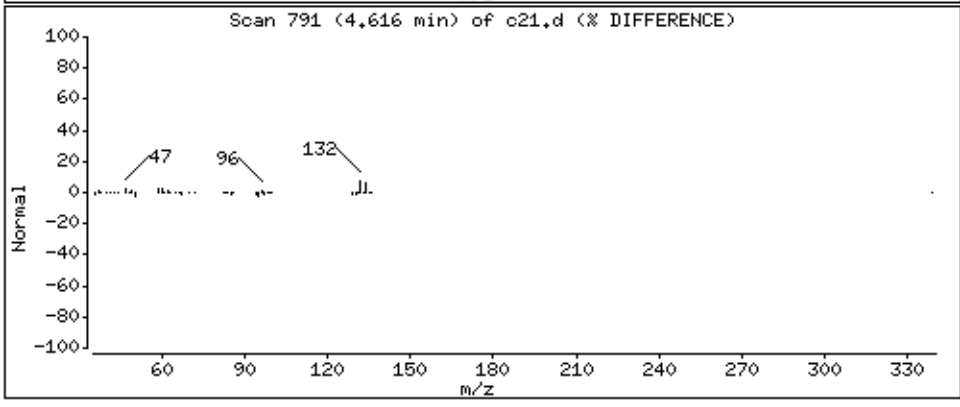












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

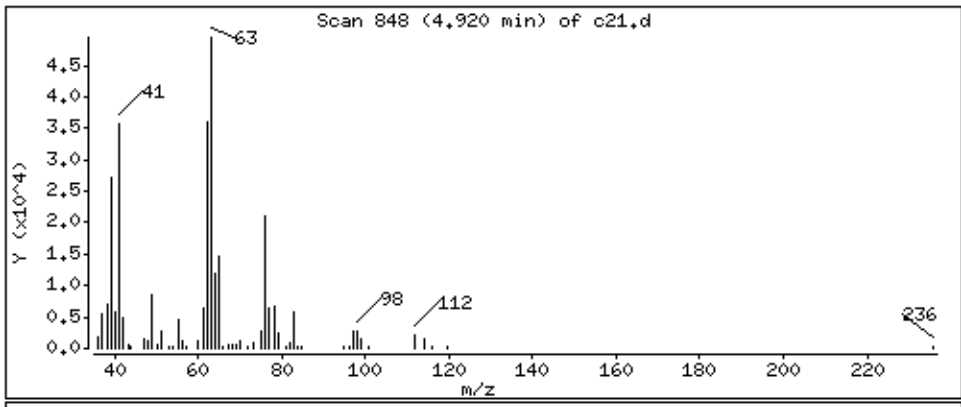
Column phase: DB-624

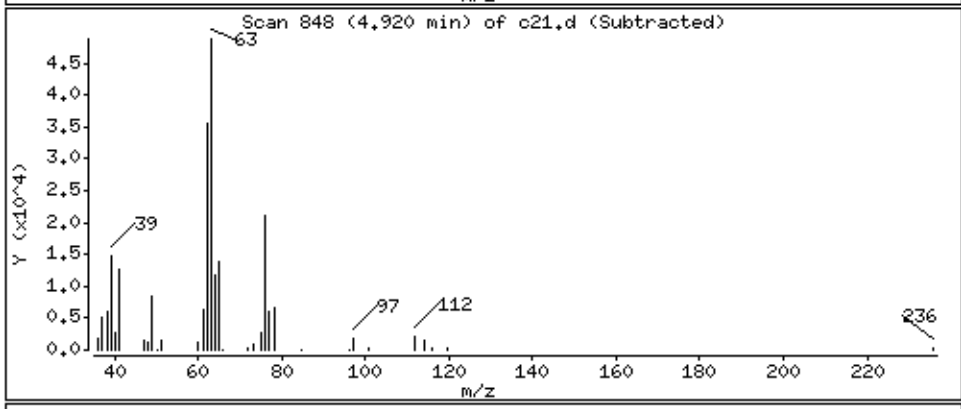
Column diameter: 0.18

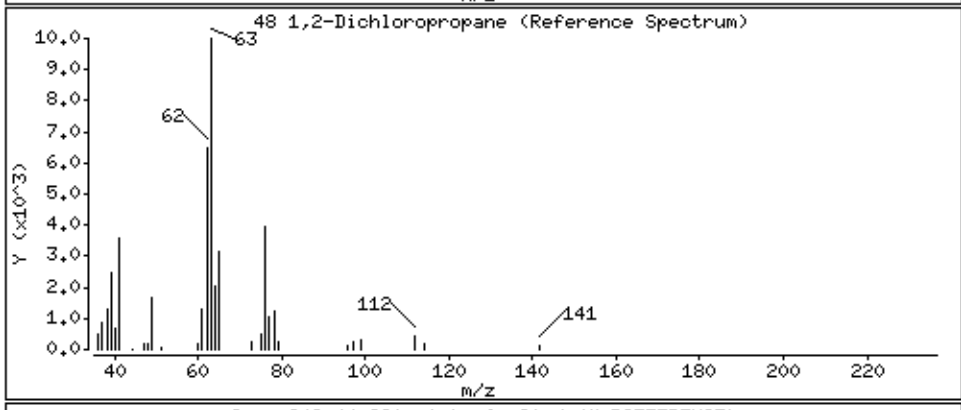
48 1,2-Dichloropropane

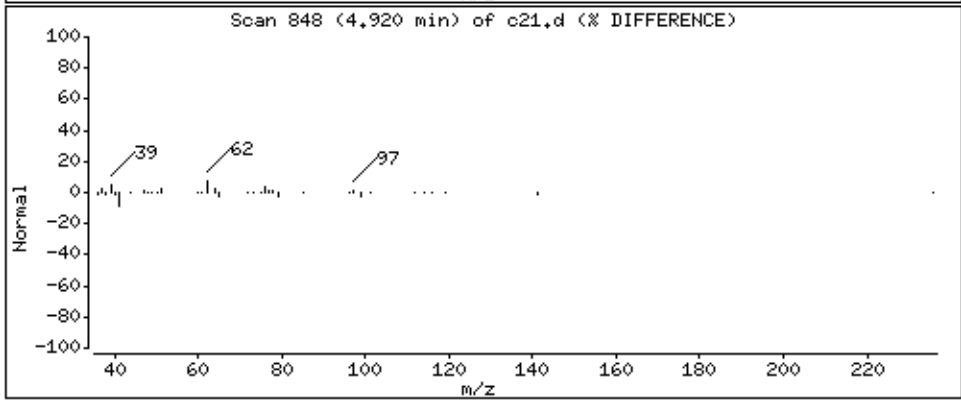
Concentration: 49.6 ppb

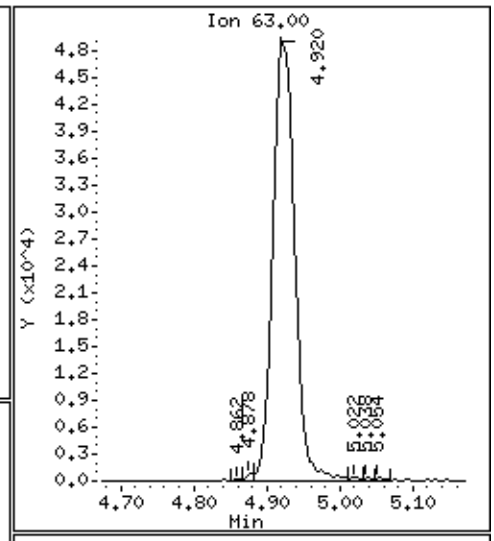
Review Code:

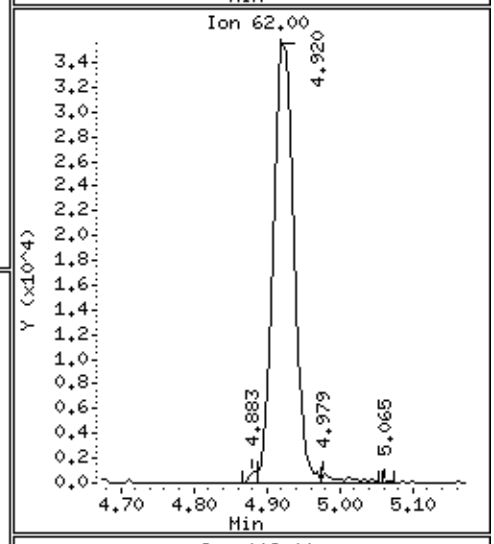


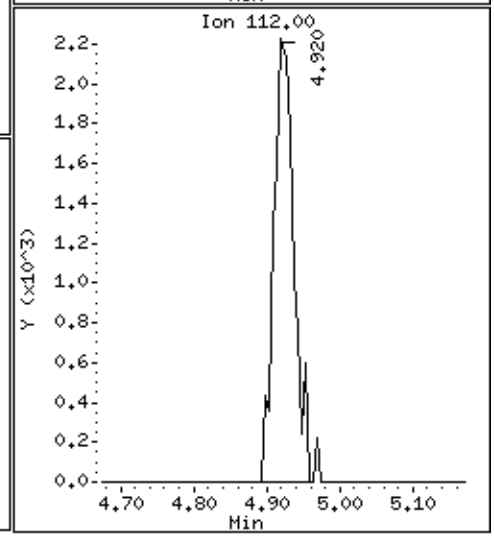












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

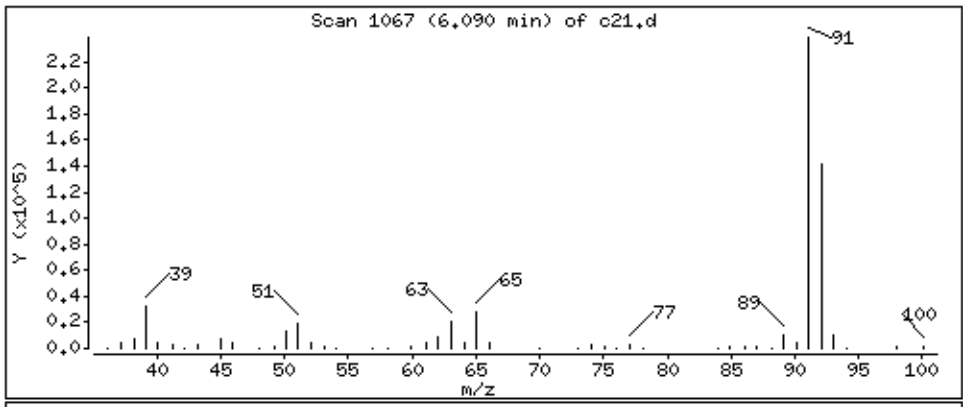
Column phase: DB-624

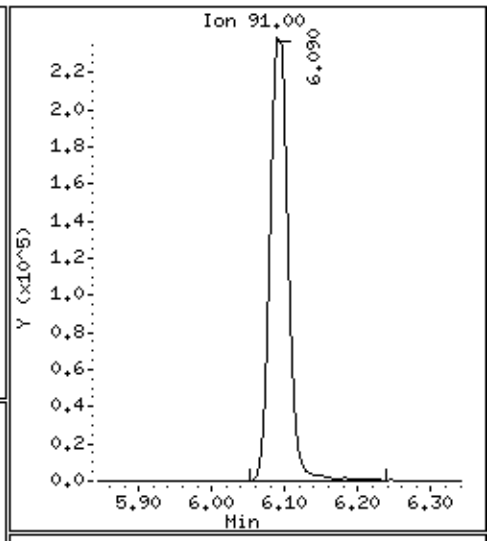
Column diameter: 0.18

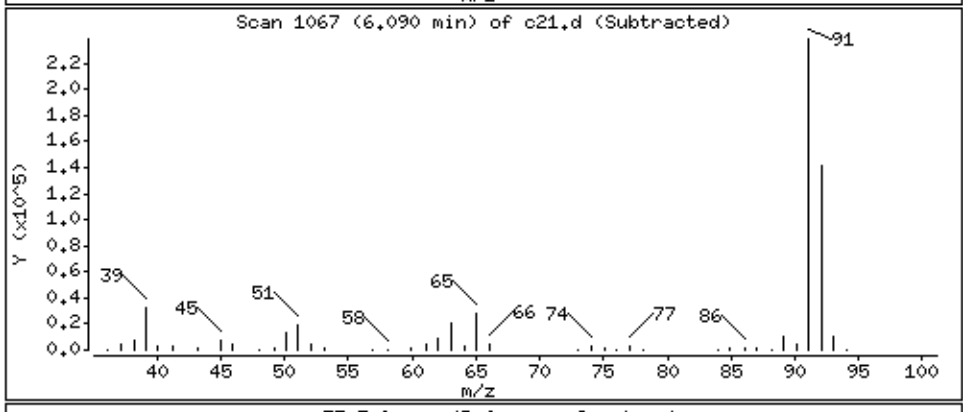
57 Toluene

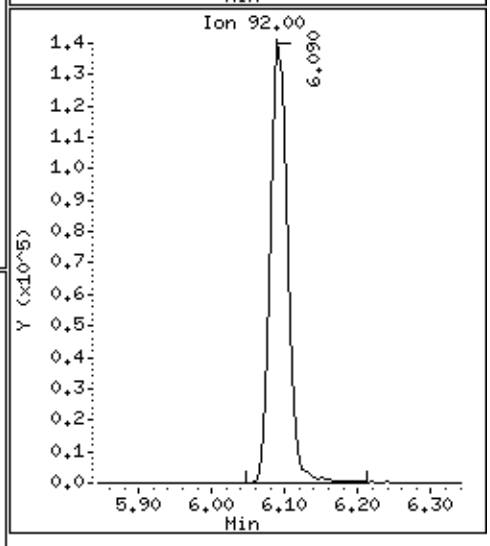
Concentration: 46.1 ppb

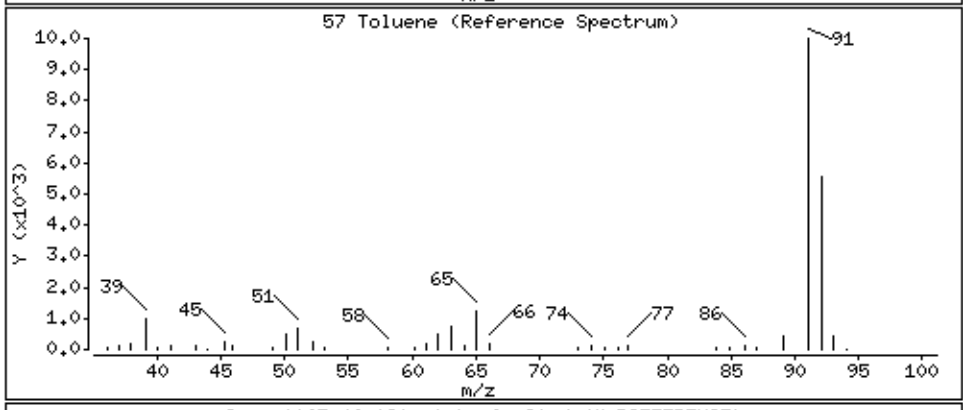
Review Code:

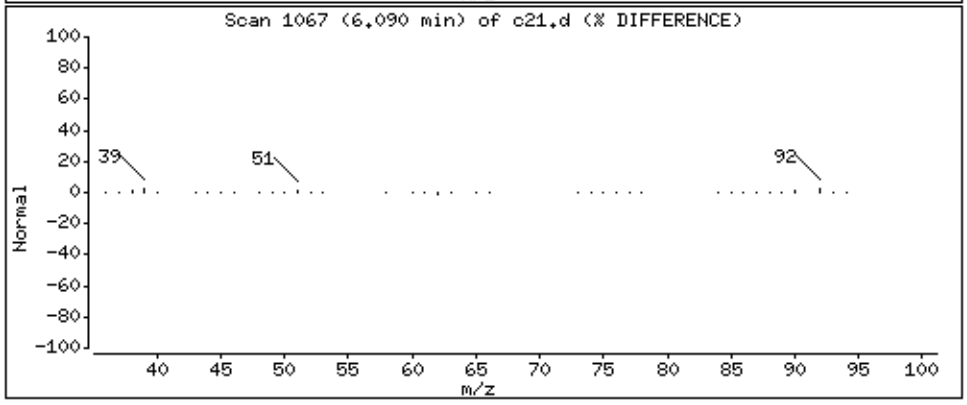












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

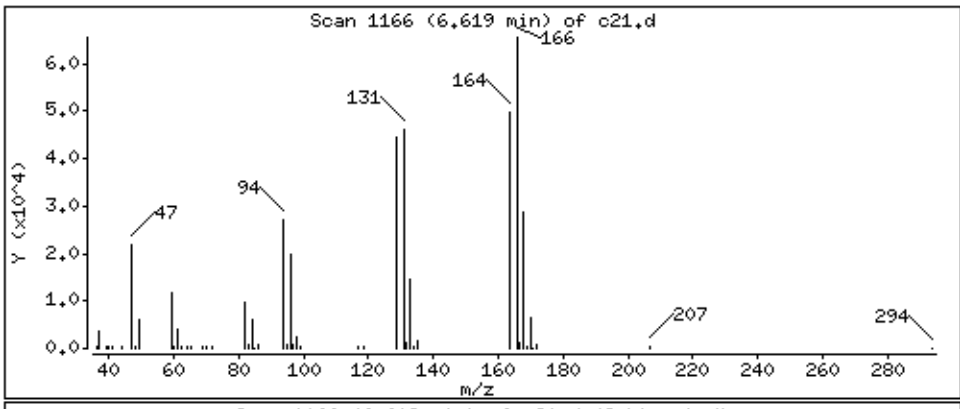
Column phase: DB-624

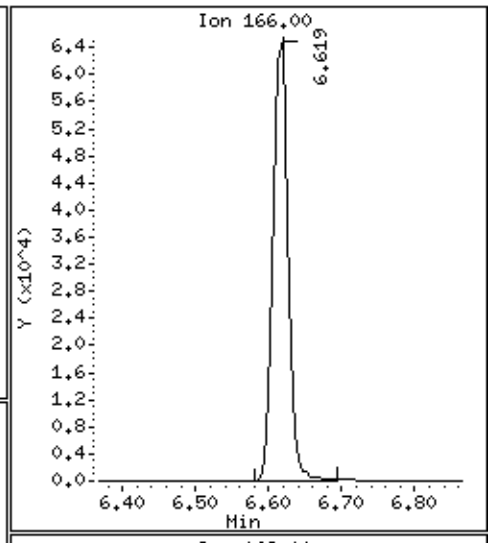
Column diameter: 0.18

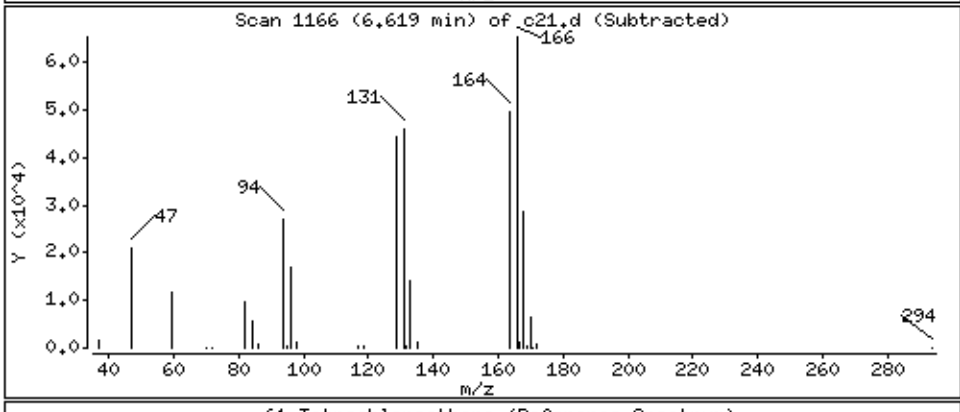
61 Tetrachloroethene

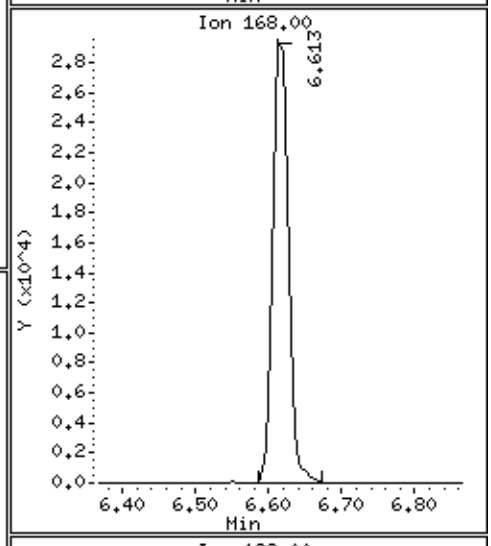
Concentration: 52.2 ppb

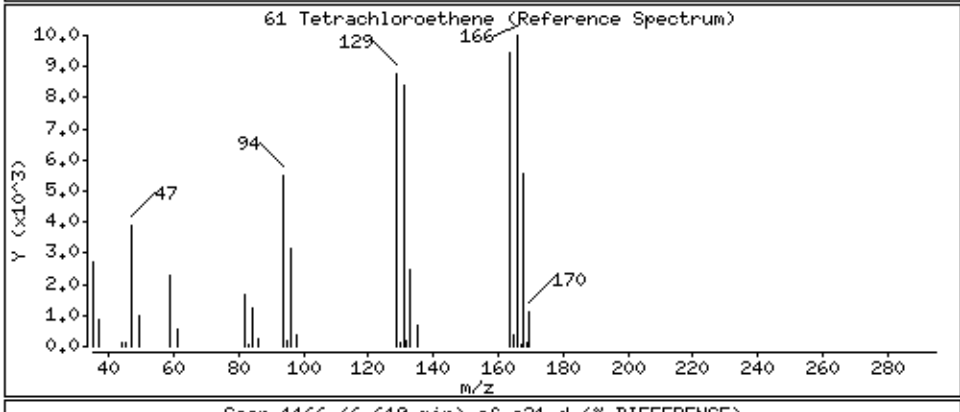
Review Code:

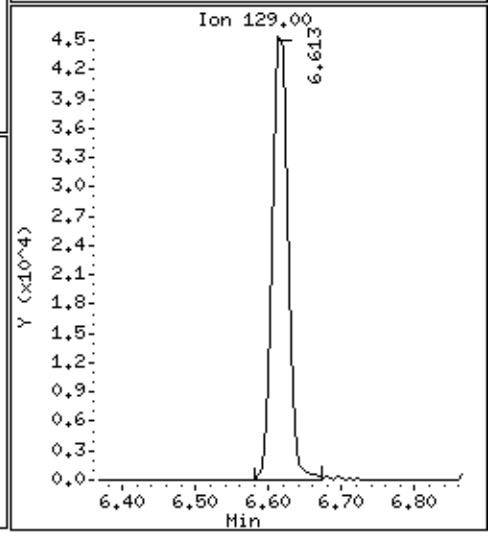


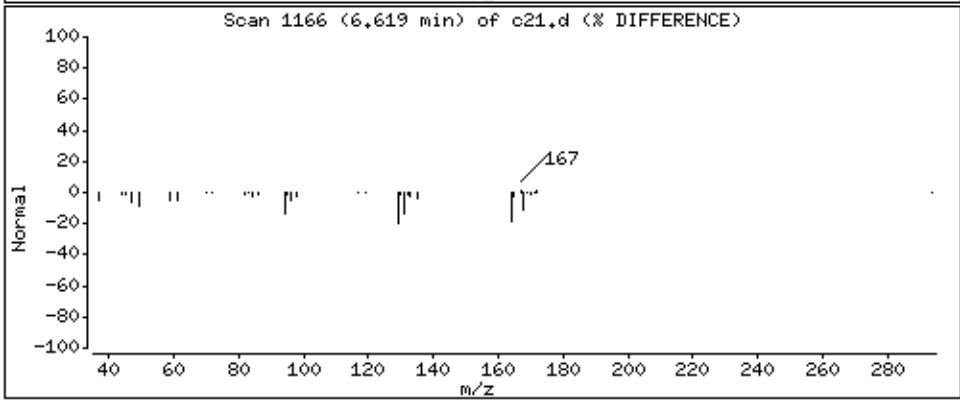












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

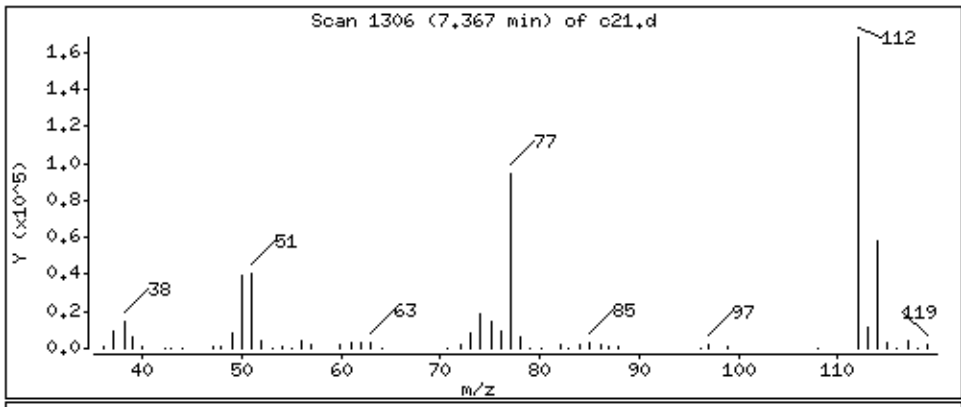
Column phase: DB-624

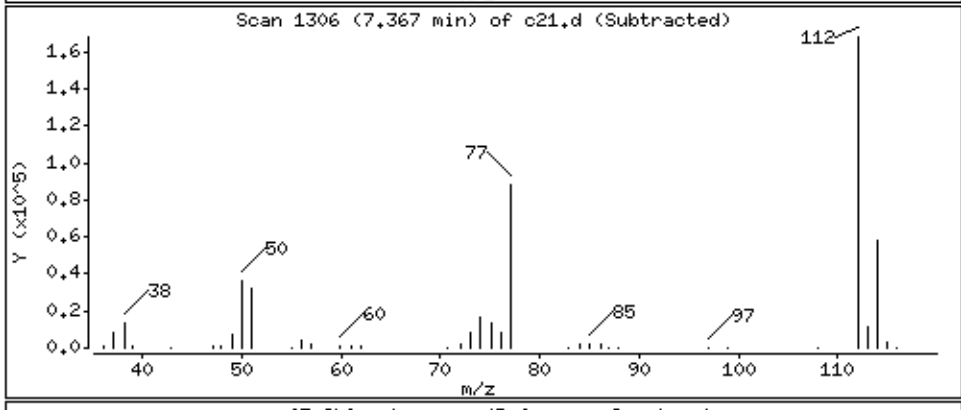
Column diameter: 0.18

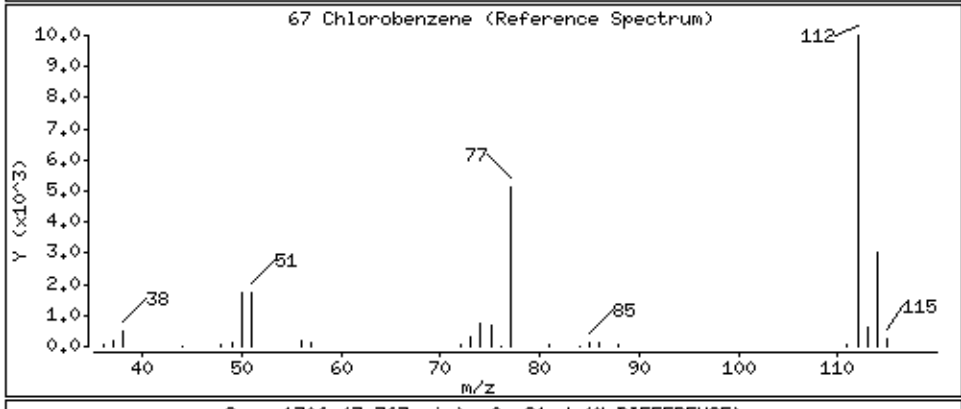
67 Chlorobenzene

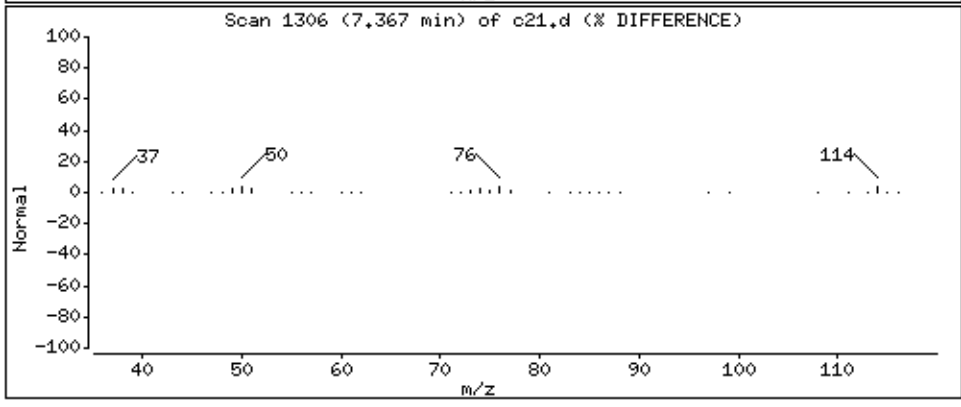
Concentration: 49.0 ppb

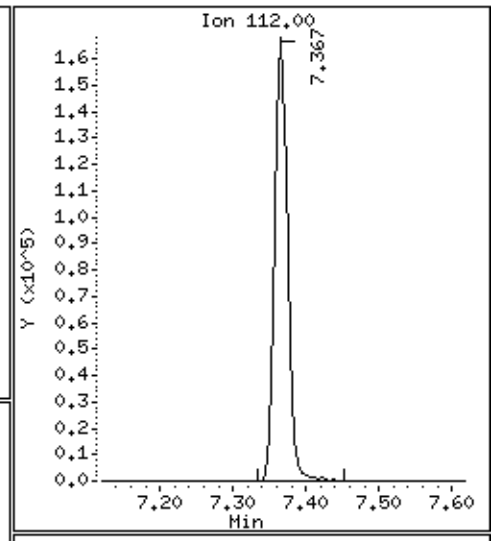
Review Code:

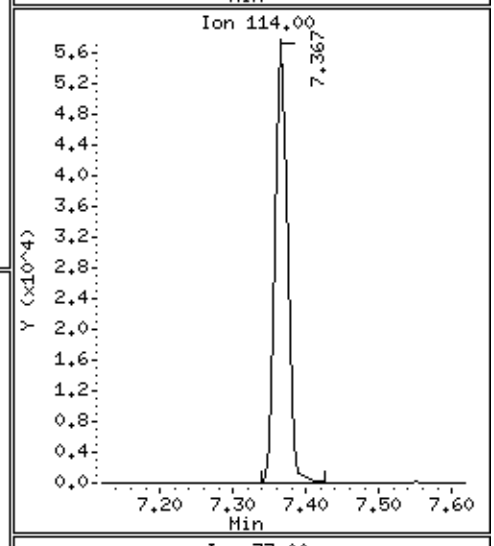


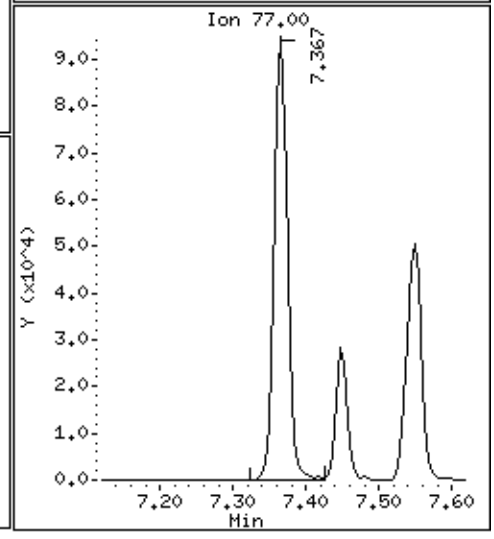












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

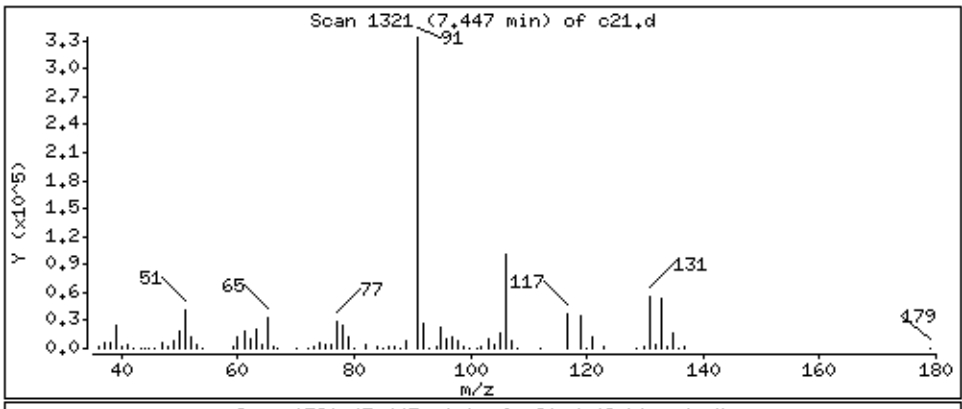
Column phase: DB-624

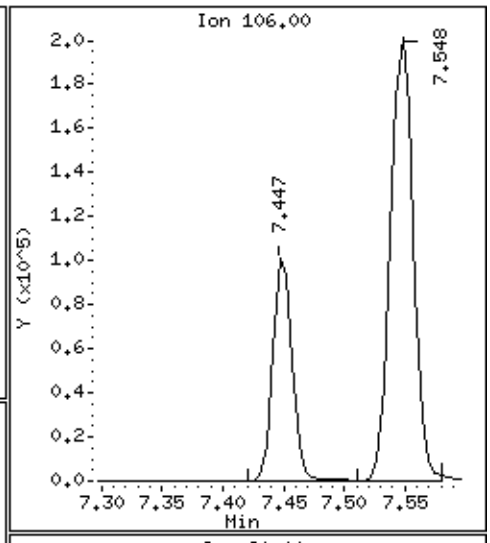
Column diameter: 0.18

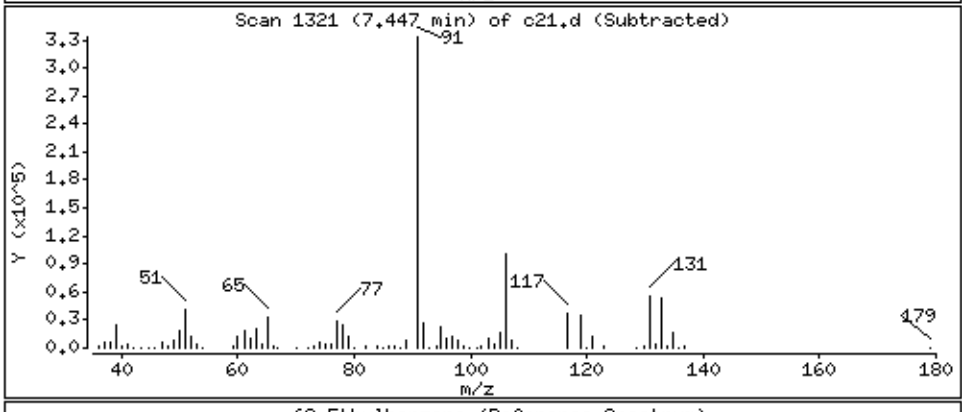
69 Ethylbenzene

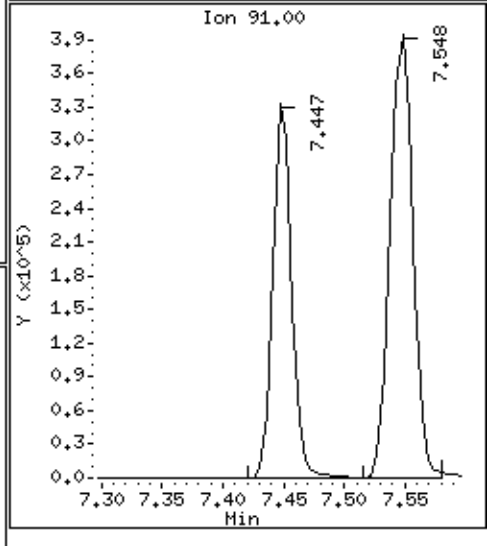
Concentration: 51.8 ppb

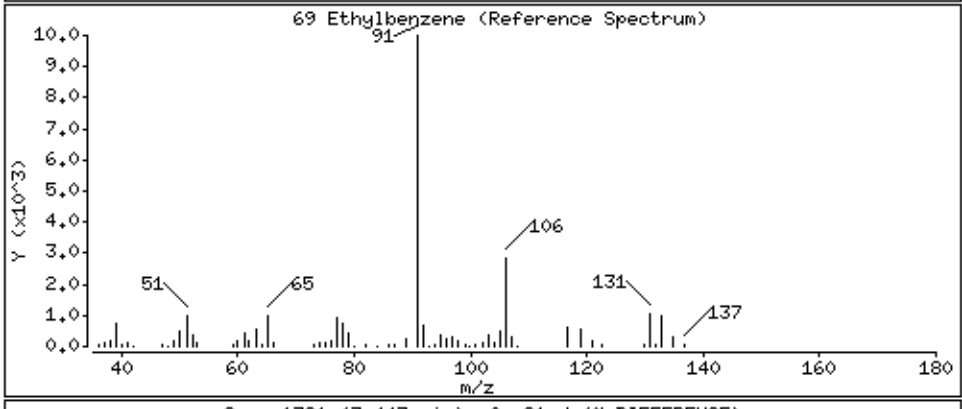
Review Code:

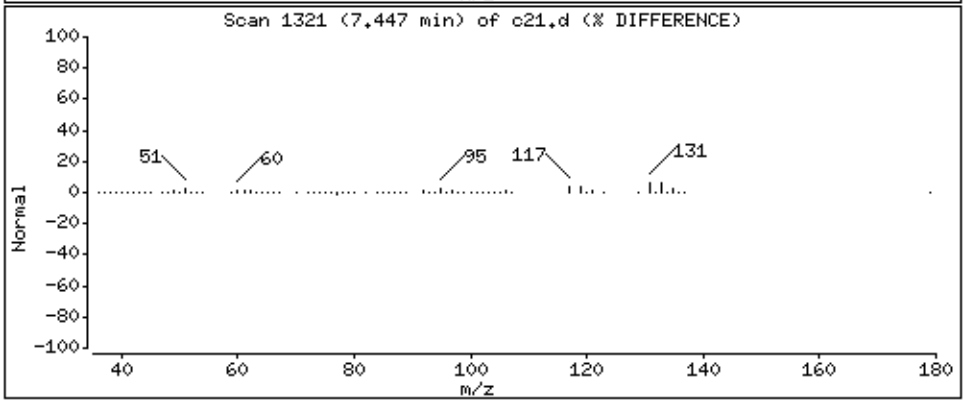












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

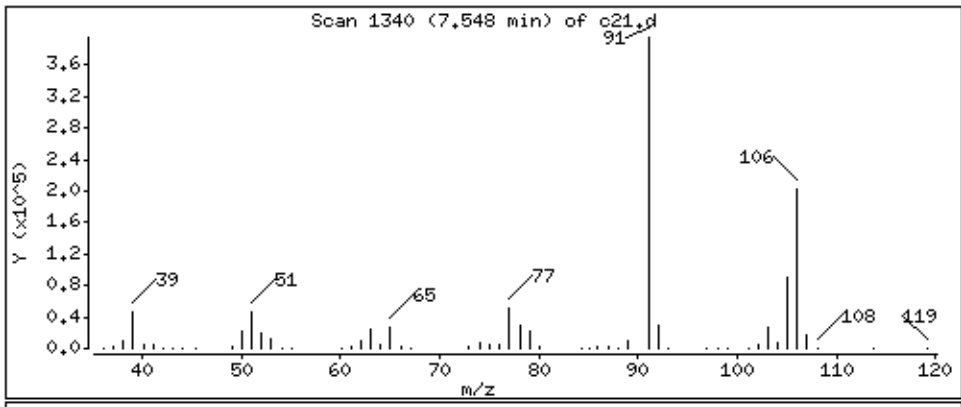
Column phase: DB-624

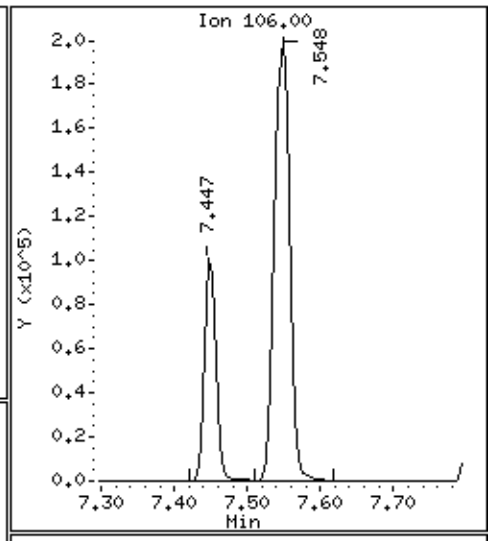
Column diameter: 0.18

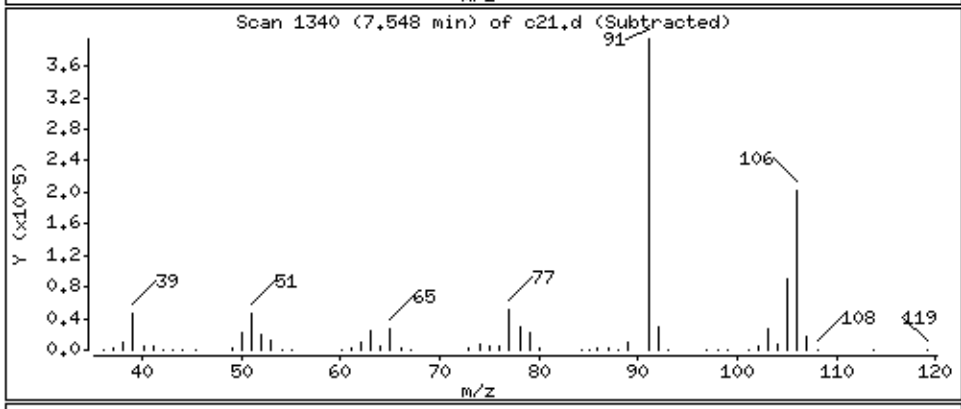
70 m&p-Xylene

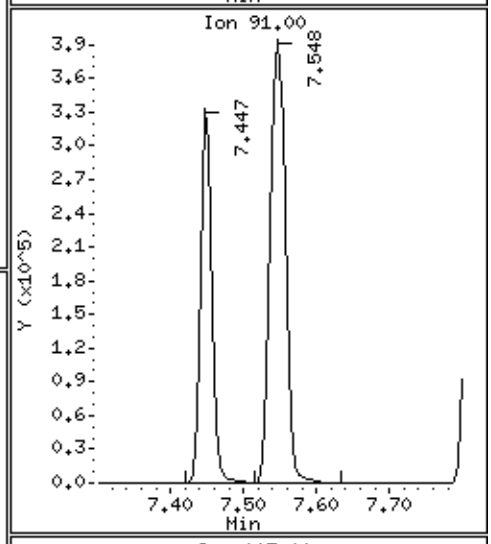
Concentration: 102 ppb

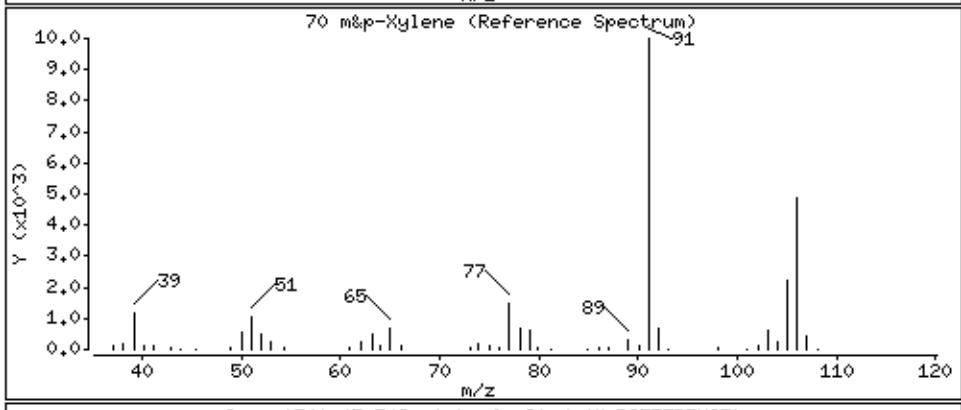
Review Code:

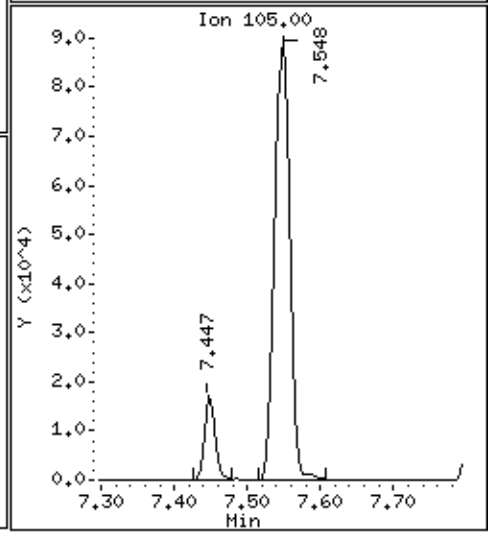


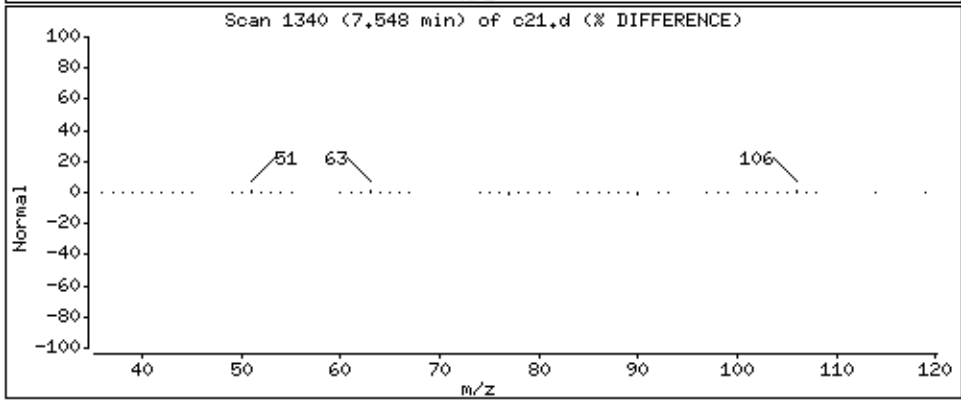












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

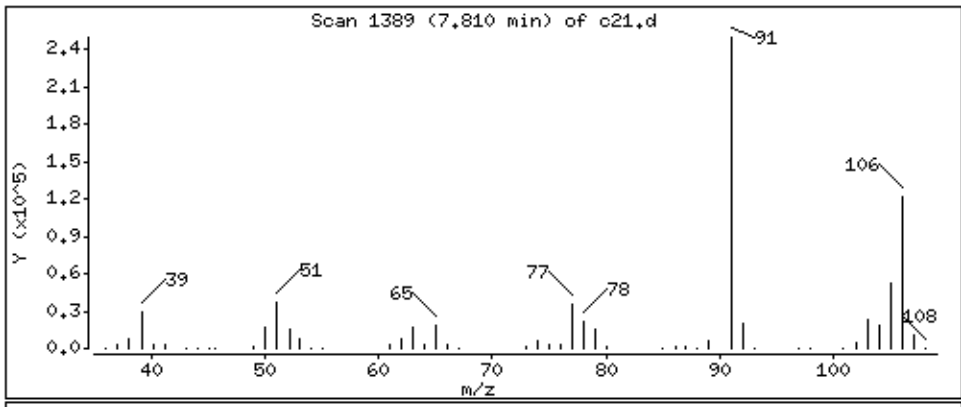
Column phase: DB-624

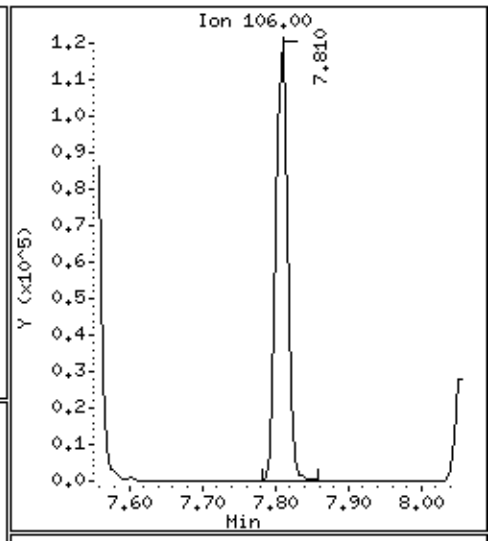
Column diameter: 0.18

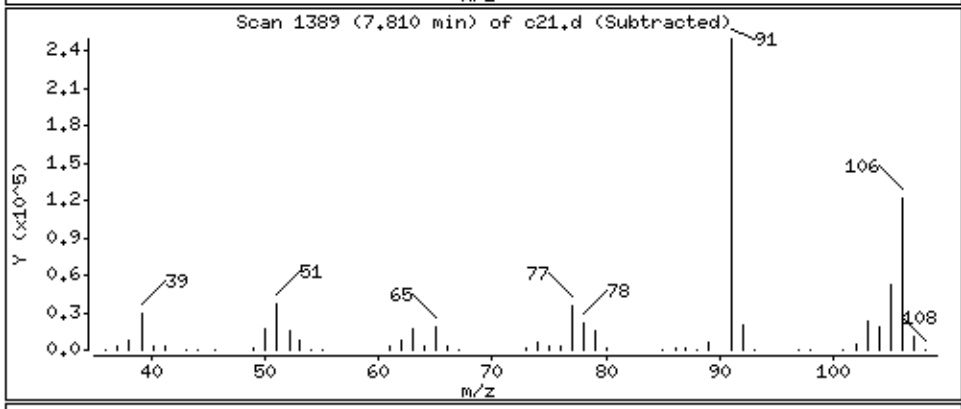
71 o-Xylene

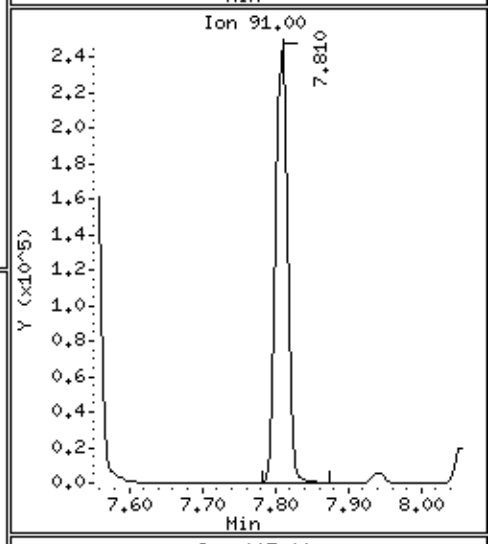
Concentration: 51.3 ppb

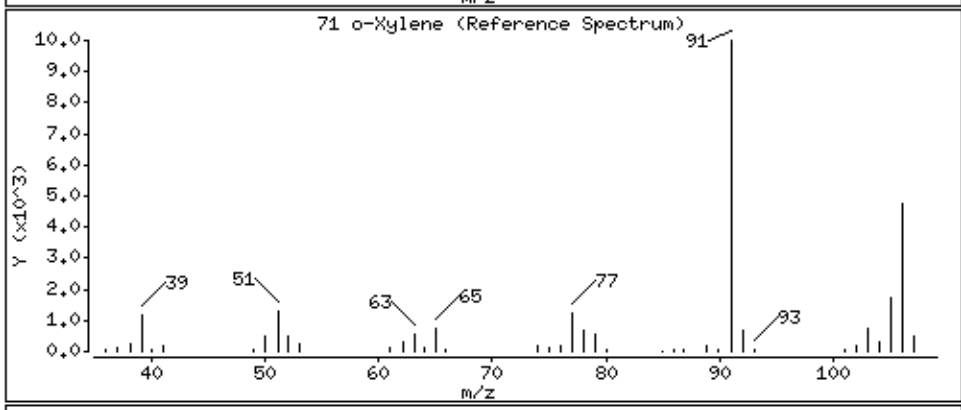
Review Code:

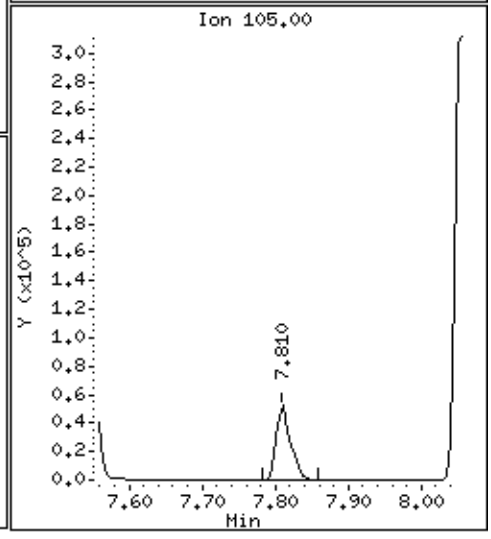


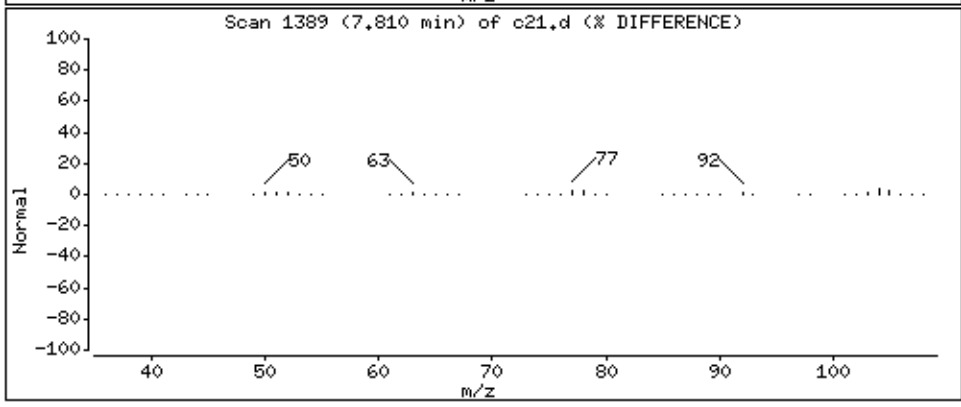












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

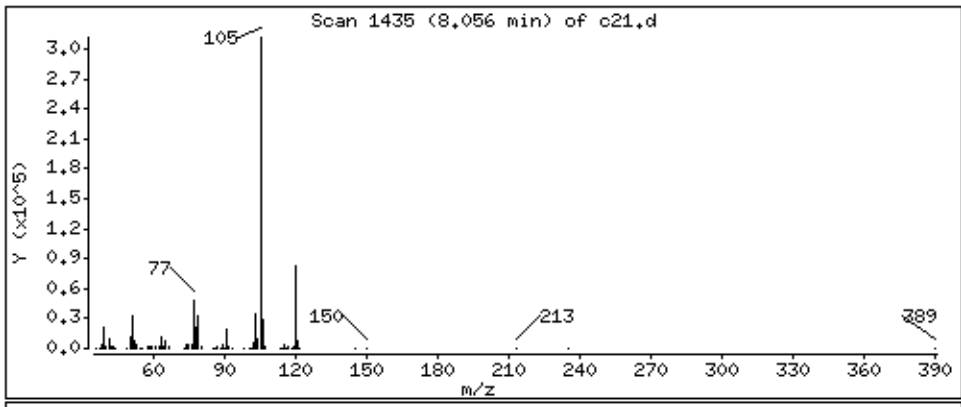
Column phase: DB-624

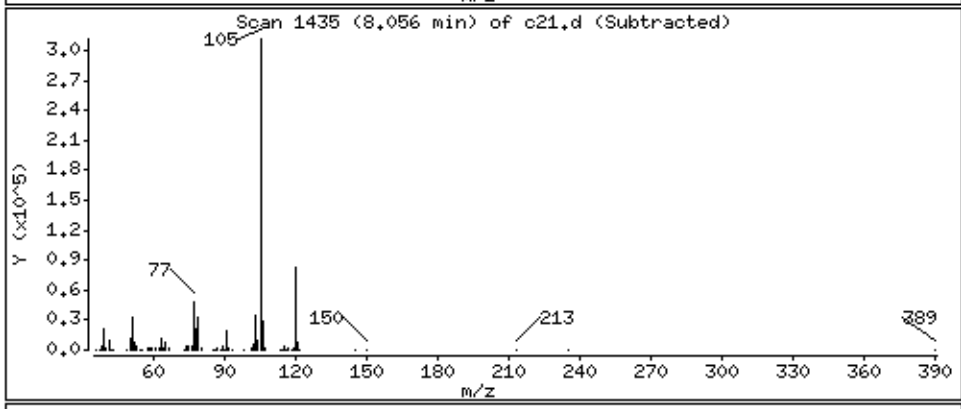
Column diameter: 0.18

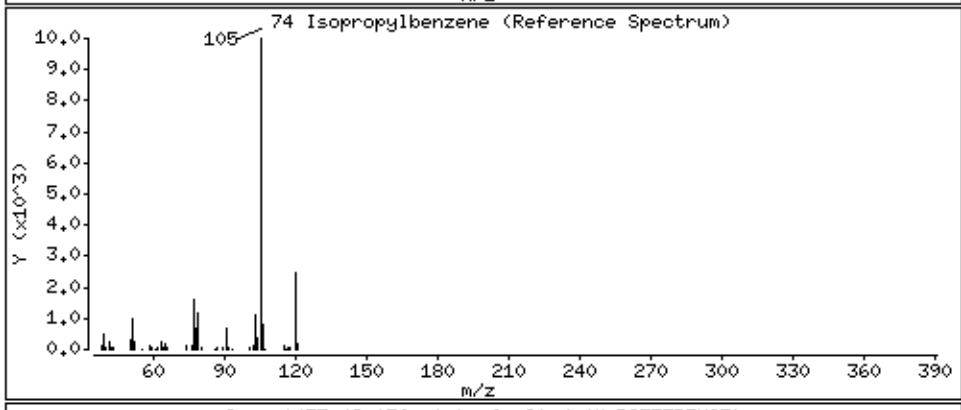
74 Isopropylbenzene

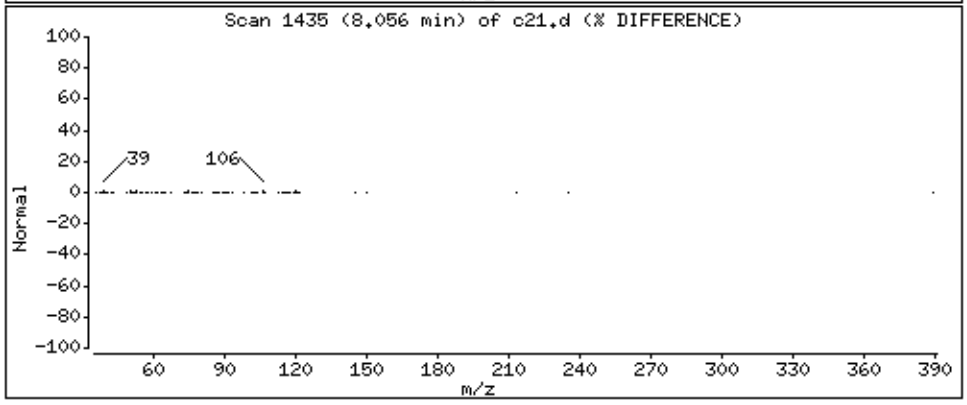
Concentration: 52.5 ppb

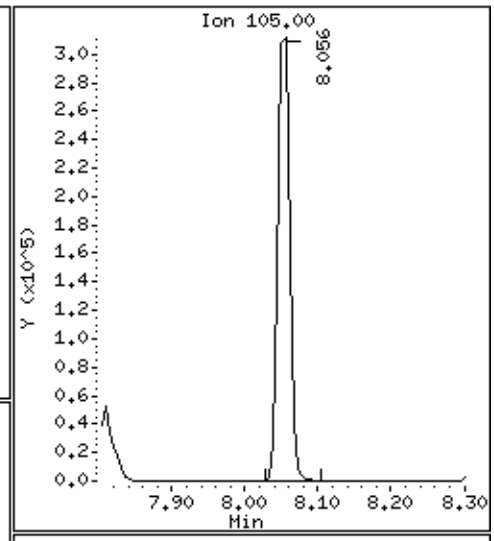
Review Code:

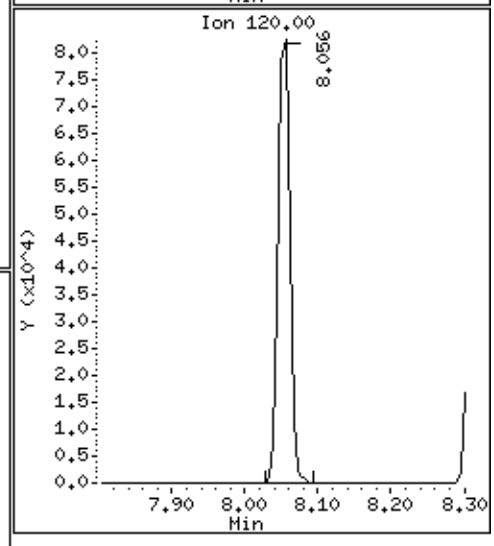












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

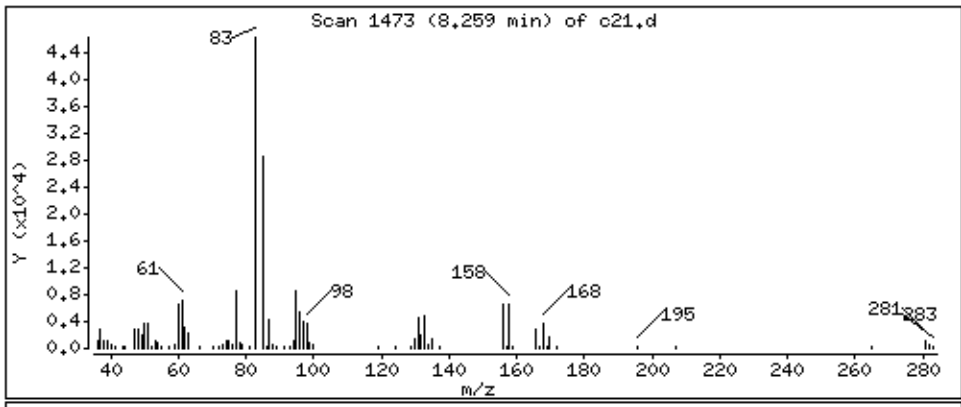
Column phase: DB-624

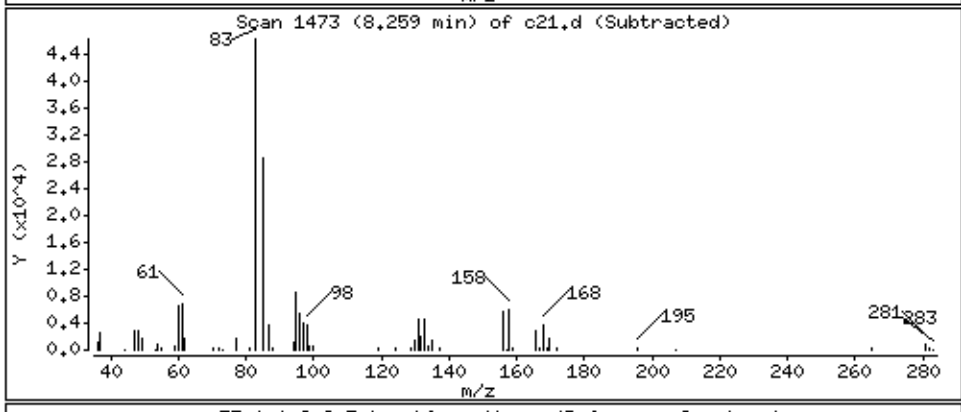
Column diameter: 0.18

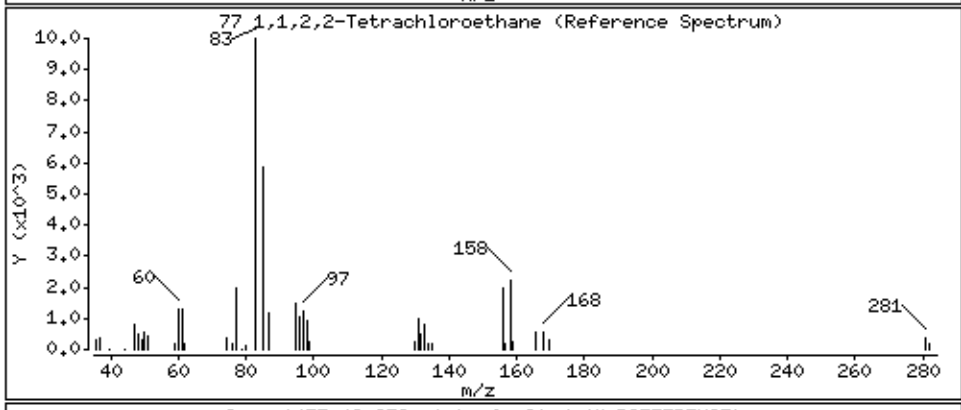
77 1,1,2,2-Tetrachloroethane

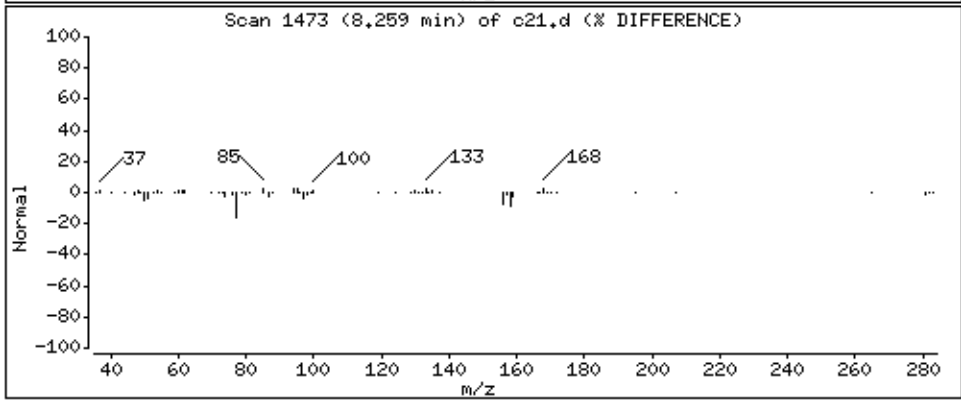
Concentration: 45.2 ppb

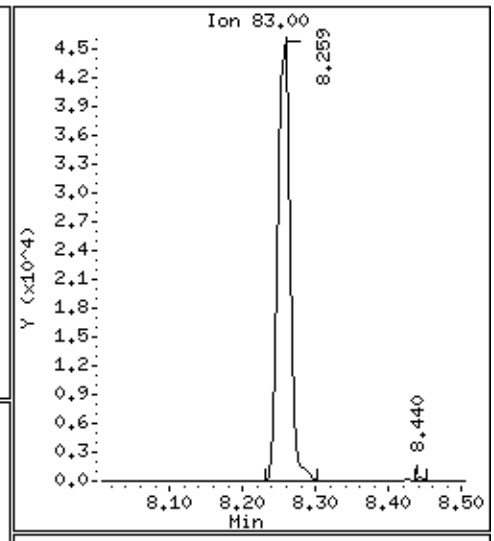
Review Code:

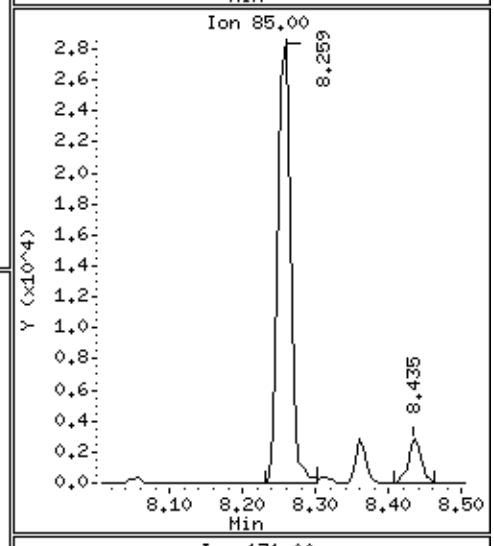


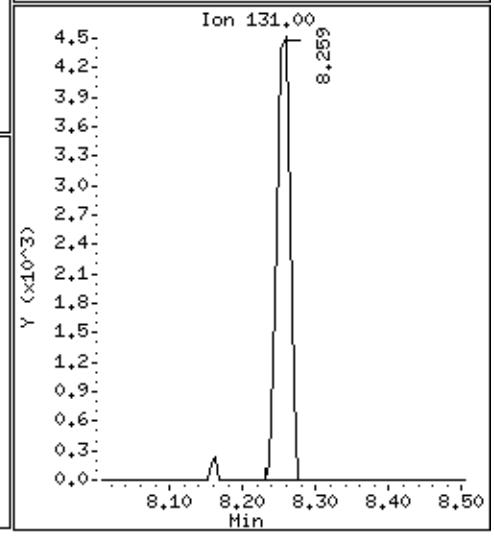












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

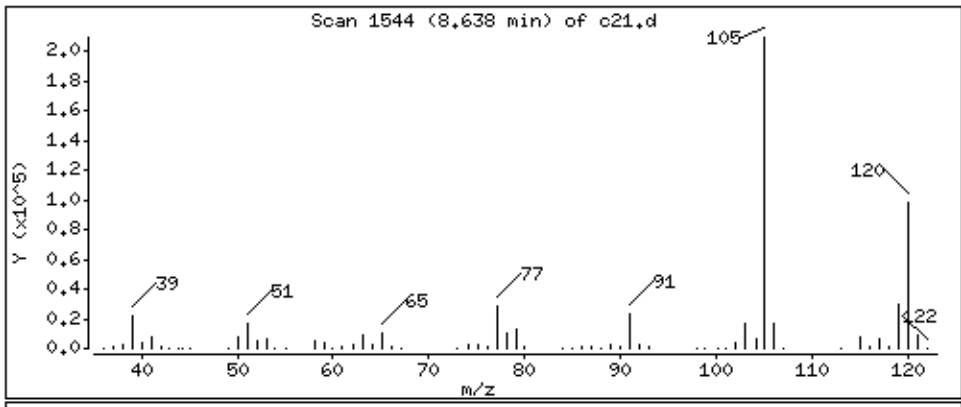
Column phase: DB-624

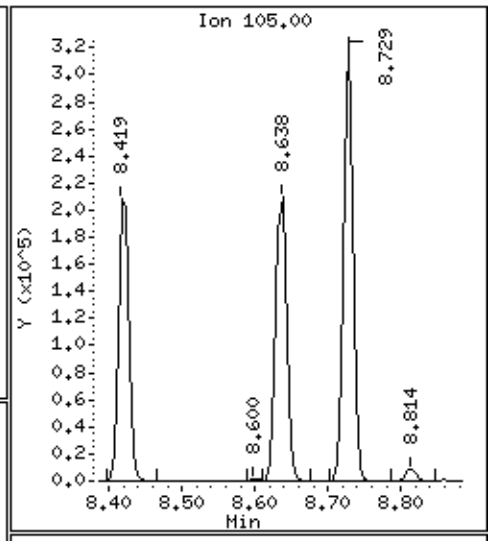
Column diameter: 0.18

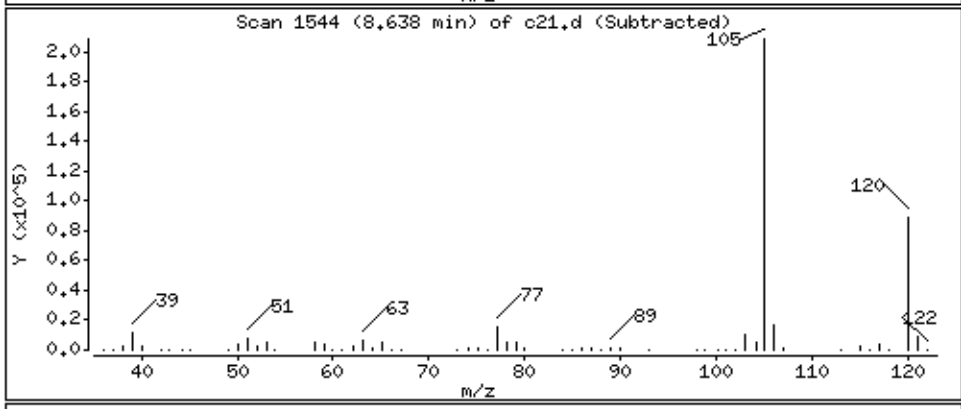
85 1,2,4-Trimethylbenzene

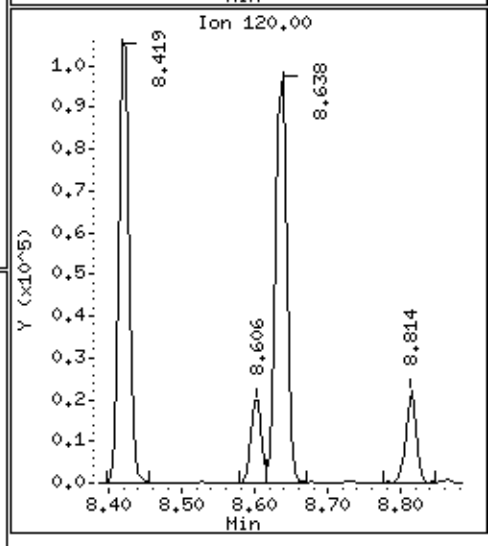
Concentration: 46.2 ppb

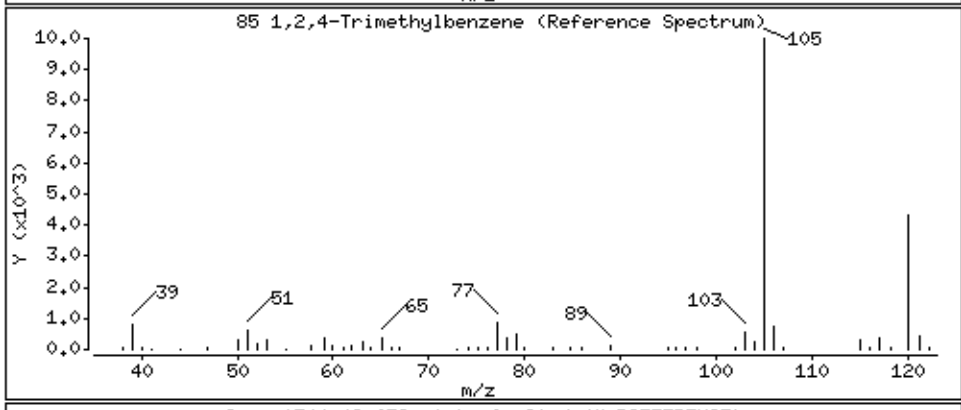
Review Code:

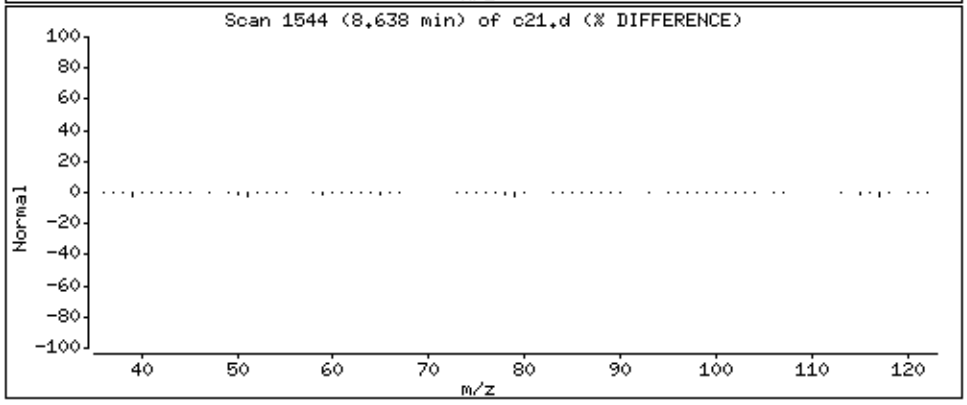












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\c21.d

Date : 12-APR-2016 09:38

Client ID: MW-0503-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516496,118316:5

Purge Volume: 5.0

Operator: jlz

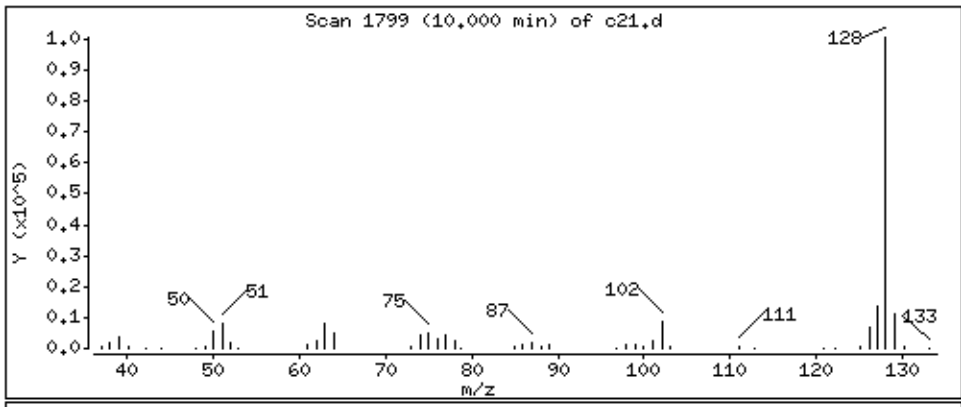
Column phase: DB-624

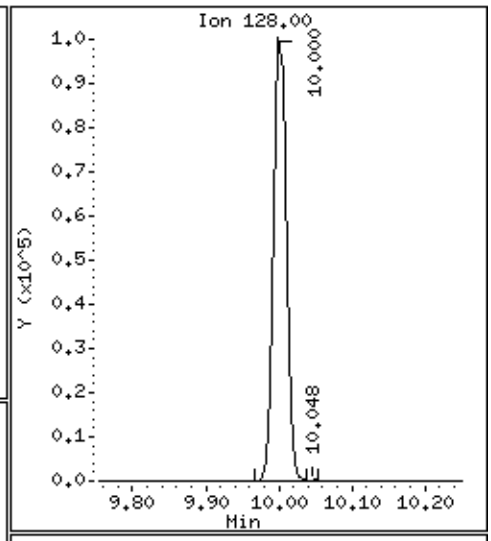
Column diameter: 0.18

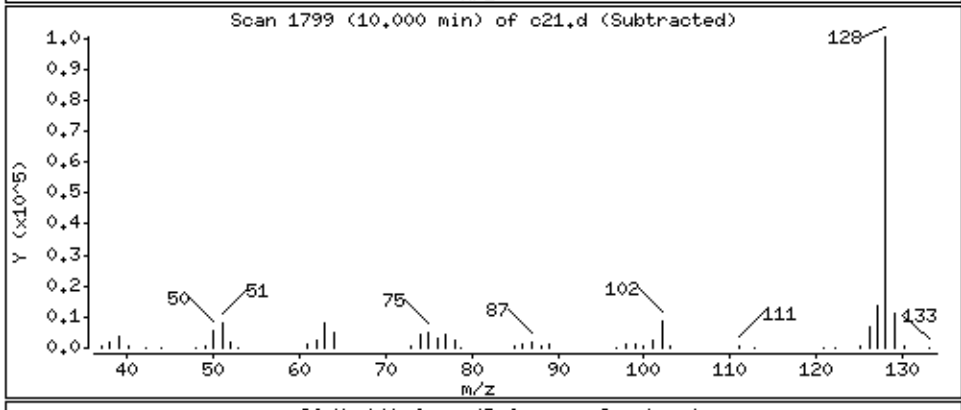
96 Naphthalene

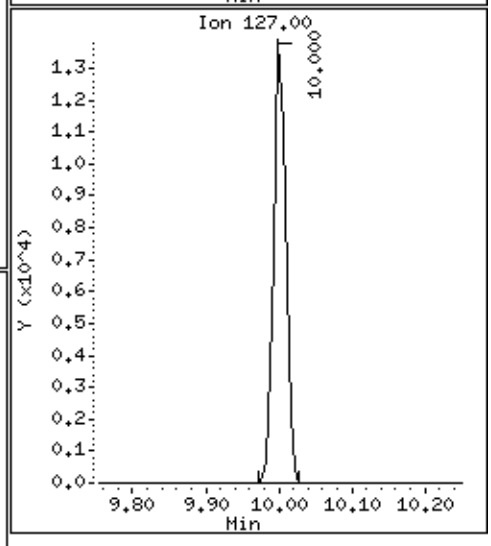
Concentration: 43.2 ppb

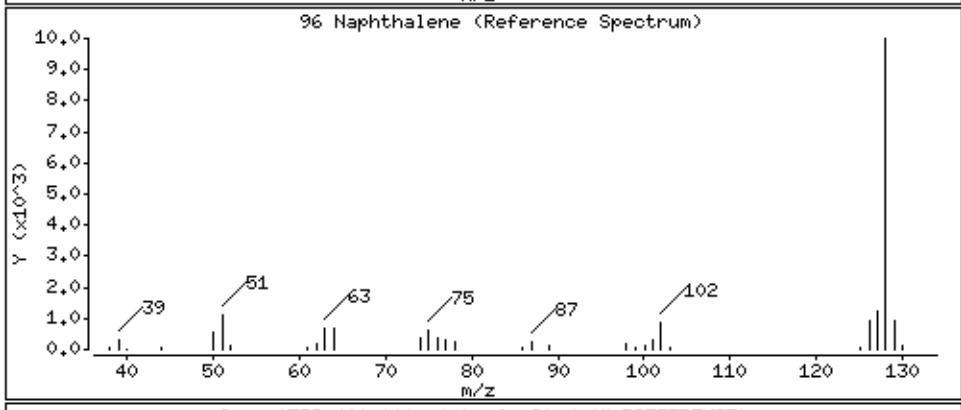
Review Code:

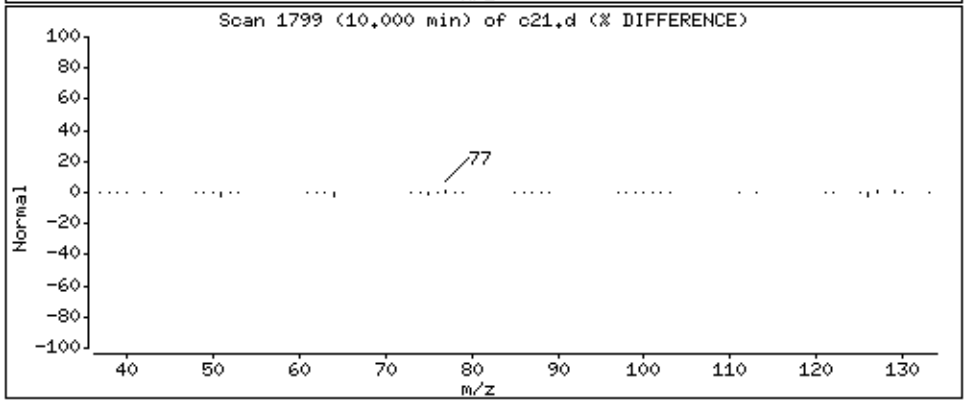












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/c21.d
Injection Date: 12-APR-2016 09:38
Instrument: 50mv3a.i
Lab Sample ID: 1516496
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:18 Lab Sample ID: 1516501

Date Analyzed: 04/12/2016 00:18 Lab File ID: B041116.B\D03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 00:18 Lab Sample ID: 1516501

Date Analyzed: 04/12/2016 00:18 Lab File ID: B041116.B\D03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d03mbw.d
Lab Smp Id: 1516501 Client Smp ID: MB
Inj Date : 12-APR-2016 00:18
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 1516501
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 54 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

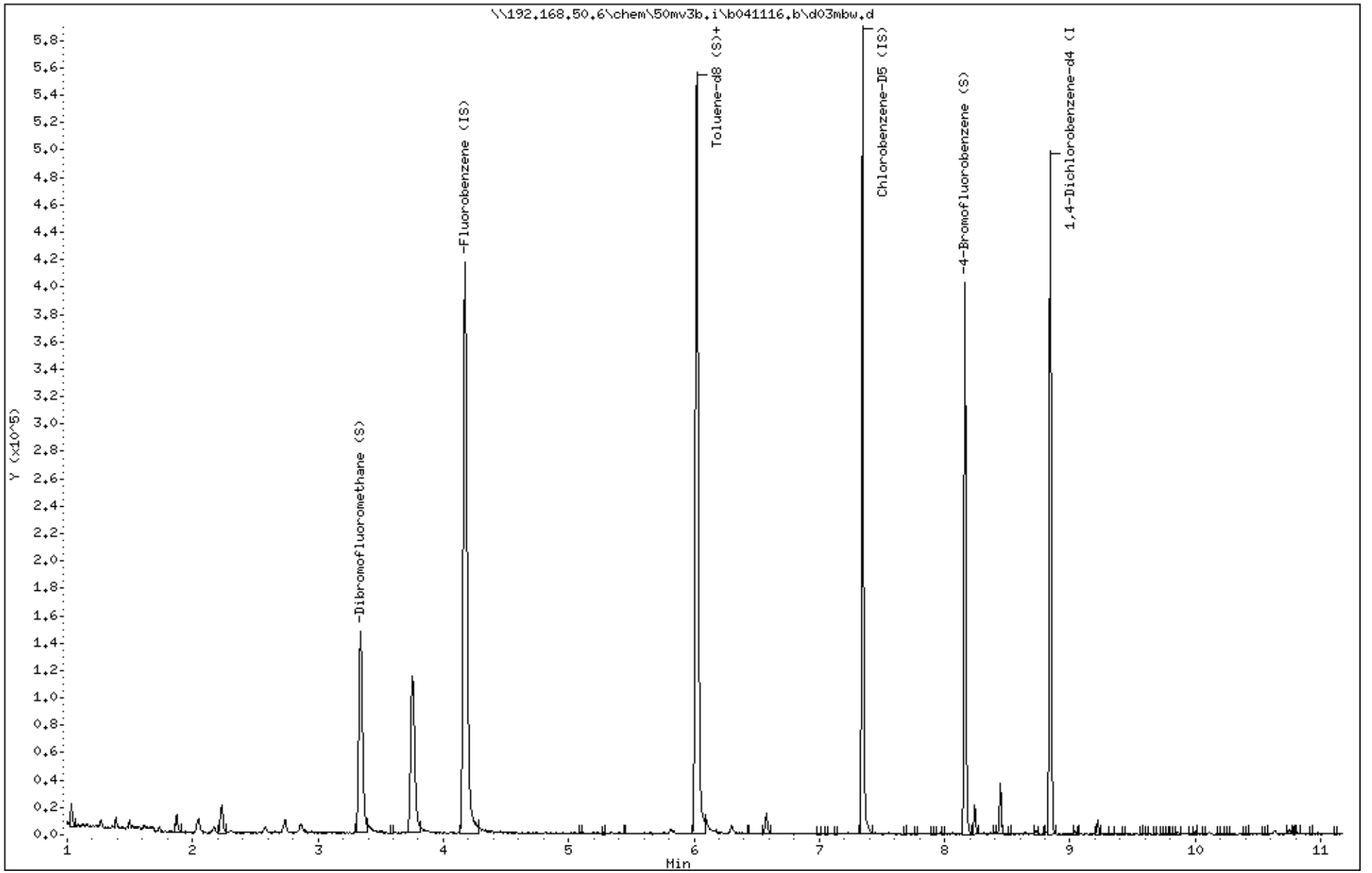
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	2 Chloromethane	50	0.997	0.997	(0.239)	2437	0.50745	0.507	
	18 Methylene Chloride	84	1.873	1.873	(0.449)	3237	1.41170	1.41	
$	35 Dibromofluoromethane (S)	113	3.337	3.342	(0.800)	98058	50.6252	50.6	
*	44 Fluorobenzene (IS)	96	4.170	4.175	(1.000)	423020	50.0000		
$	55 Toluene-d8 (S)	98	6.023	6.023	(0.820)	340708	48.7486	48.7	
	56 Toluene	91	6.098	6.092	(0.831)	3166	0.34780	0.348	
*	65 Chlorobenzene-D5 (IS)	117	7.343	7.348	(1.000)	216288	50.0000		
$	74 4-Bromofluorobenzene (S)	95	8.165	8.165	(1.112)	78837	41.4904	41.5	
*	88 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.843	(1.000)	80757	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d03mbw.d
Date : 12-APR-2016 00:18
Client ID: MB
Sample Info: 1516501
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d03mbw.d

Date : 12-APR-2016 00:18

Client ID: MB

Instrument: 50mv3b.i

Sample Info: 1516501

Purge Volume: 5.0

Operator: jlz

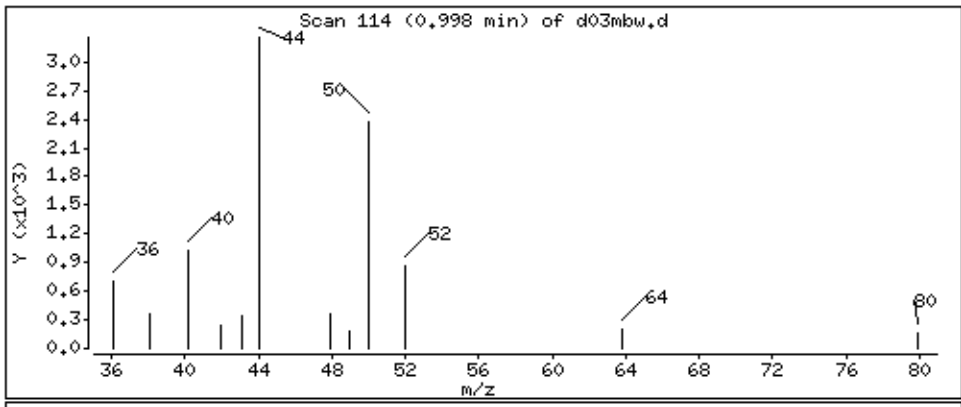
Column phase: DB-624

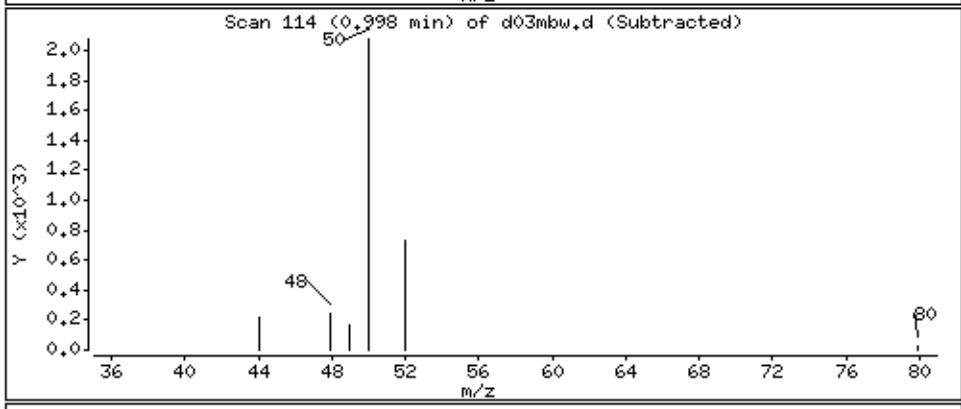
Column diameter: 0.18

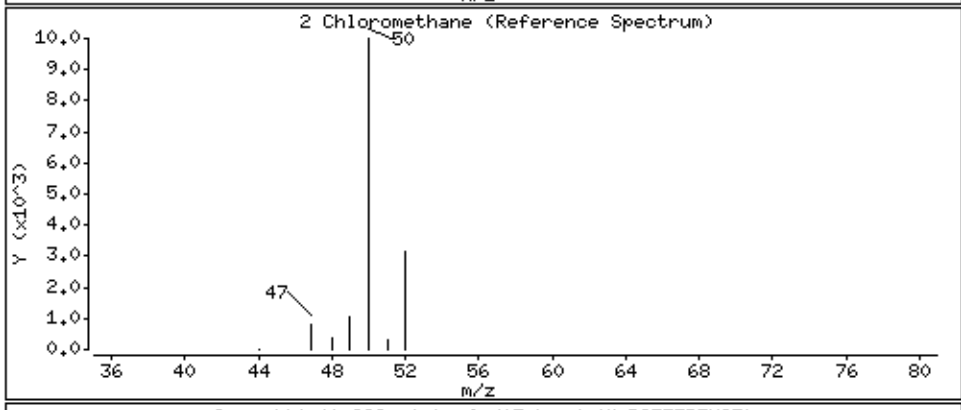
2 Chloromethane

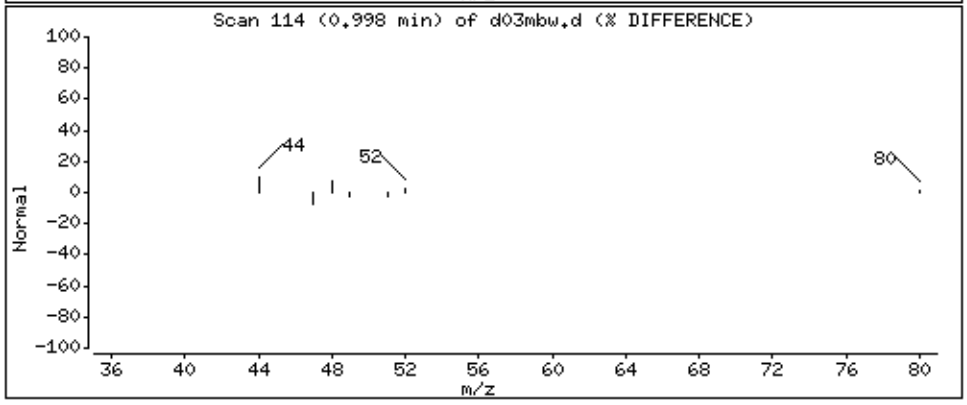
Concentration: 0.507 ppb

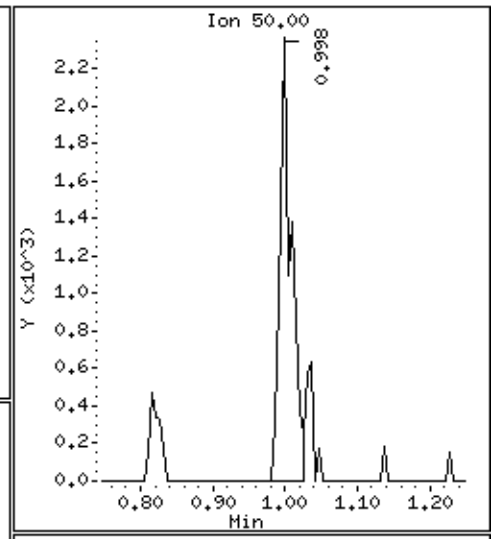
Review Code:

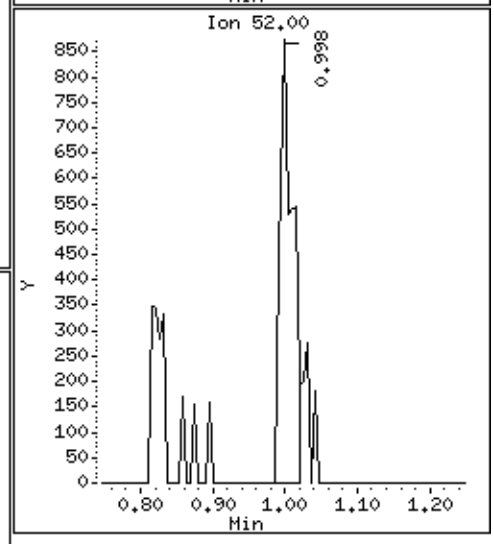












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d03mbw.d

Date : 12-APR-2016 00:18

Client ID: MB

Instrument: 50mv3b.i

Sample Info: 1516501

Purge Volume: 5.0

Operator: jlz

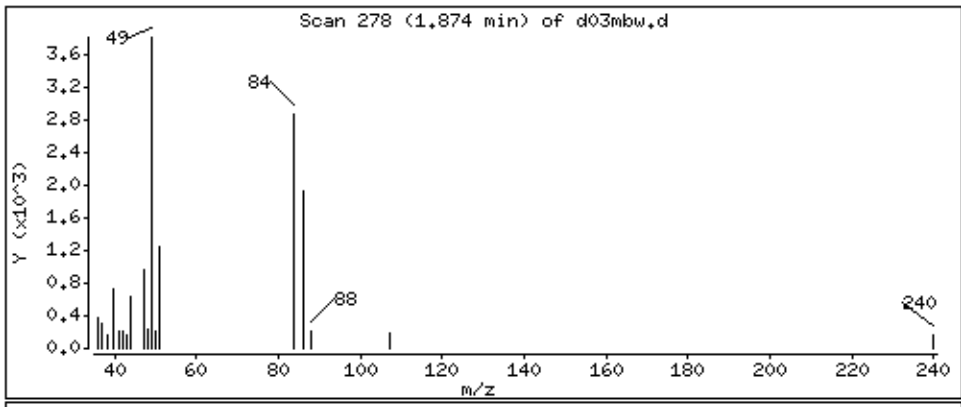
Column phase: DB-624

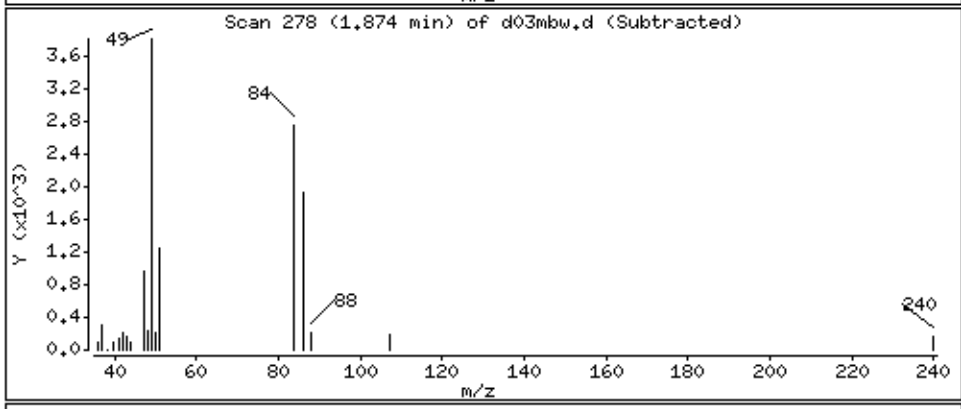
Column diameter: 0.18

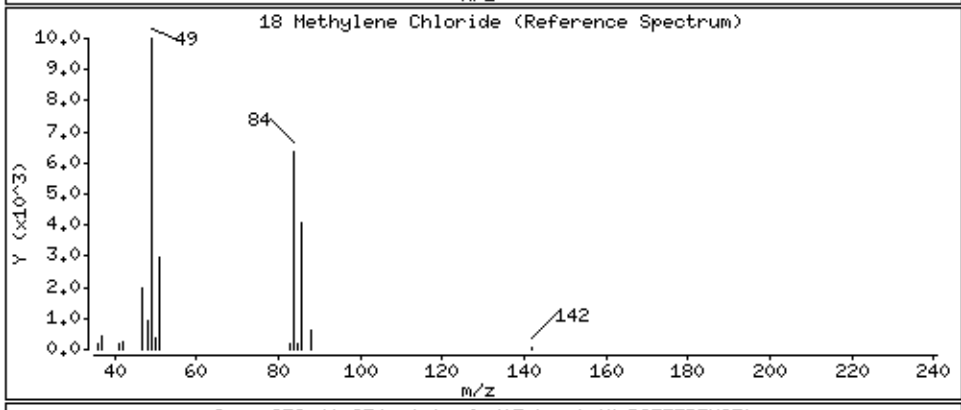
18 Methylene Chloride

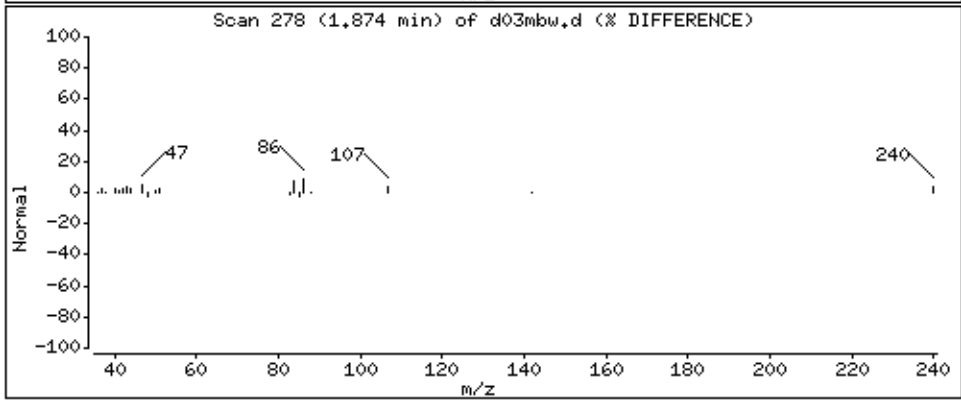
Concentration: 1.41 ppb

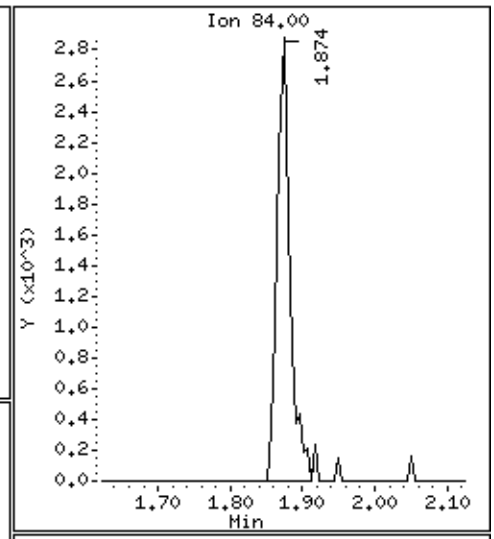
Review Code:

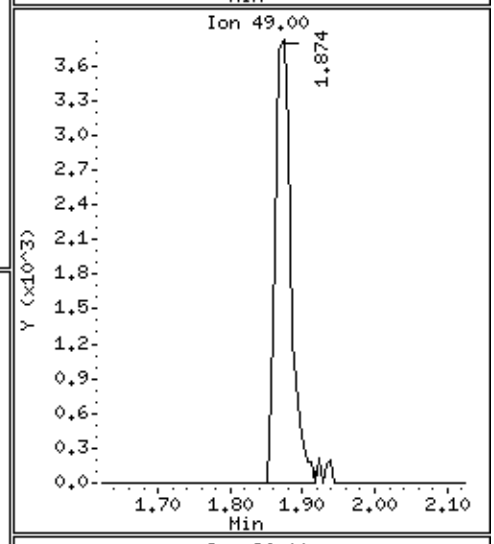


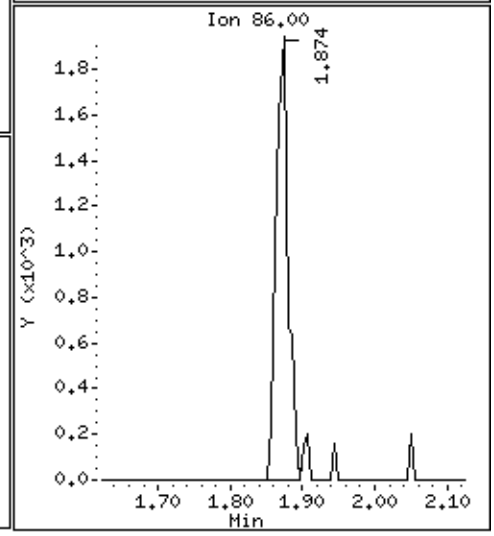












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d03mbw.d

Date : 12-APR-2016 00:18

Client ID: MB

Instrument: 50mv3b.i

Sample Info: 1516501

Purge Volume: 5.0

Operator: jlz

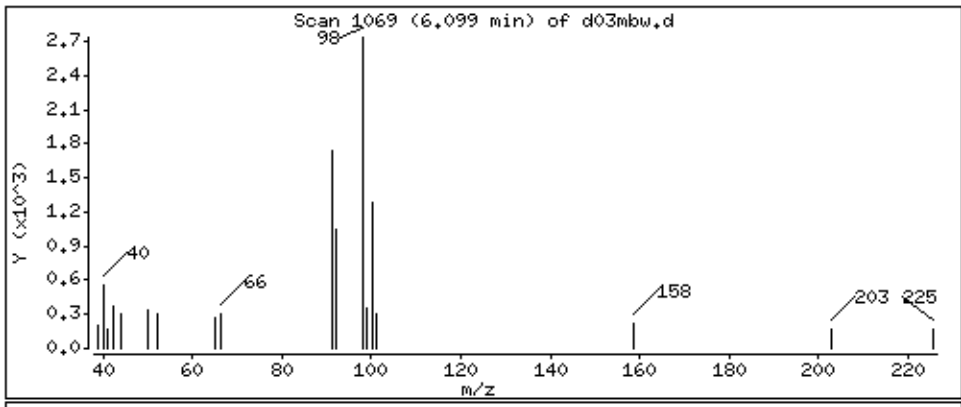
Column phase: DB-624

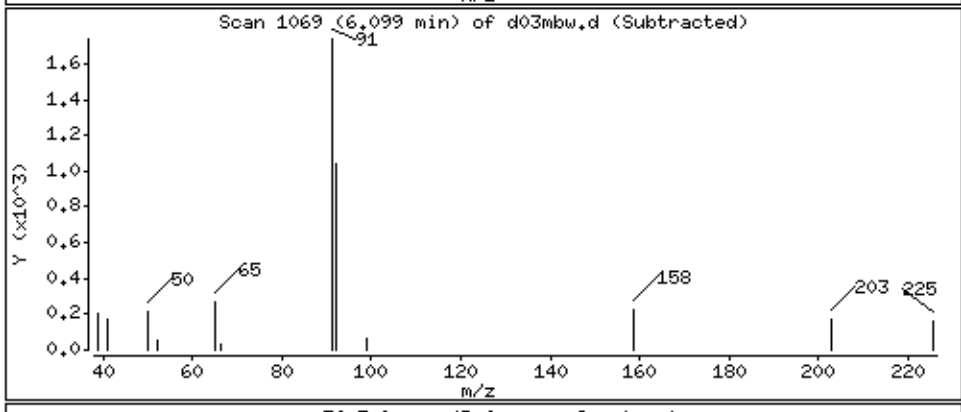
Column diameter: 0.18

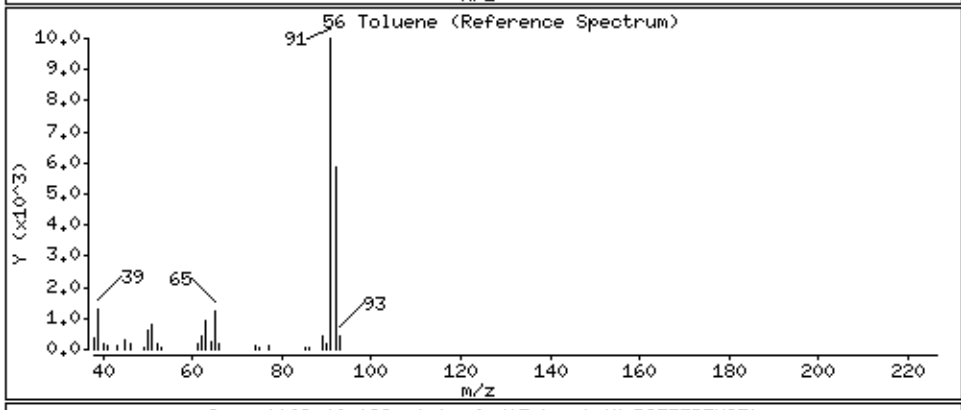
56 Toluene

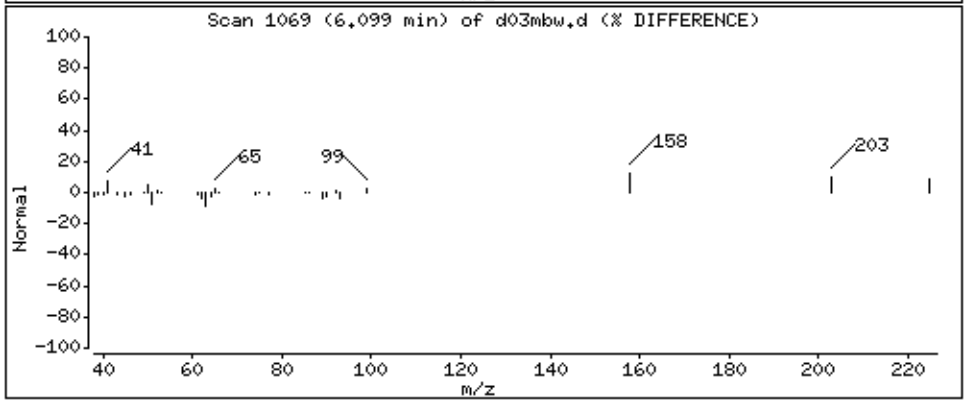
Concentration: 0.348 ppb

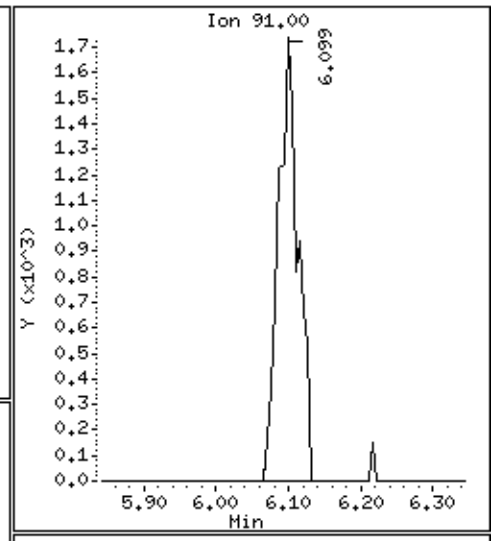
Review Code:

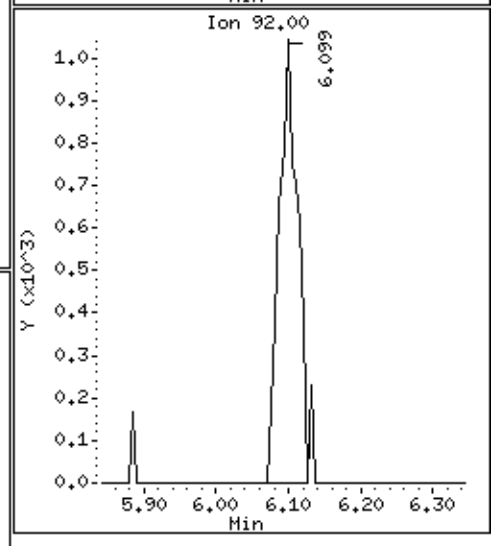












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d03mbw.d
Injection Date: 12-APR-2016 00:18
Instrument: 50mv3b.i
Lab Sample ID: 1516501
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 23:46 Lab Sample ID: 1516502

Date Analyzed: 04/11/2016 23:46 Lab File ID: B041116.B\D02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	47.0	
108-90-7	Chlorobenzene	46.2	
67-66-3	Chloroform	47.6	
75-35-4	1,1-Dichloroethene	44.1	
156-59-2	cis-1,2-Dichloroethene	49.8	
156-60-5	trans-1,2-Dichloroethene	46.6	
78-87-5	1,2-Dichloropropane	46.8	
100-41-4	Ethylbenzene	47.7	
98-82-8	Isopropylbenzene (Cumene)	48.5	
1634-04-4	Methyl-tert-butyl ether	47.0	
79-34-5	1,1,2,2-Tetrachloroethane	42.1	
127-18-4	Tetrachloroethene	51.0	
108-88-3	Toluene	44.1	
71-55-6	1,1,1-Trichloroethane	50.3	
79-01-6	Trichloroethene	49.5	
75-01-4	Vinyl chloride	41.8	
1330-20-7	Xylene (Total)	144	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d
Lab Smp Id: 1516502 Client Smp ID: MBLCS
Inj Date : 11-APR-2016 23:46
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 1516502,118316:5
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 52 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

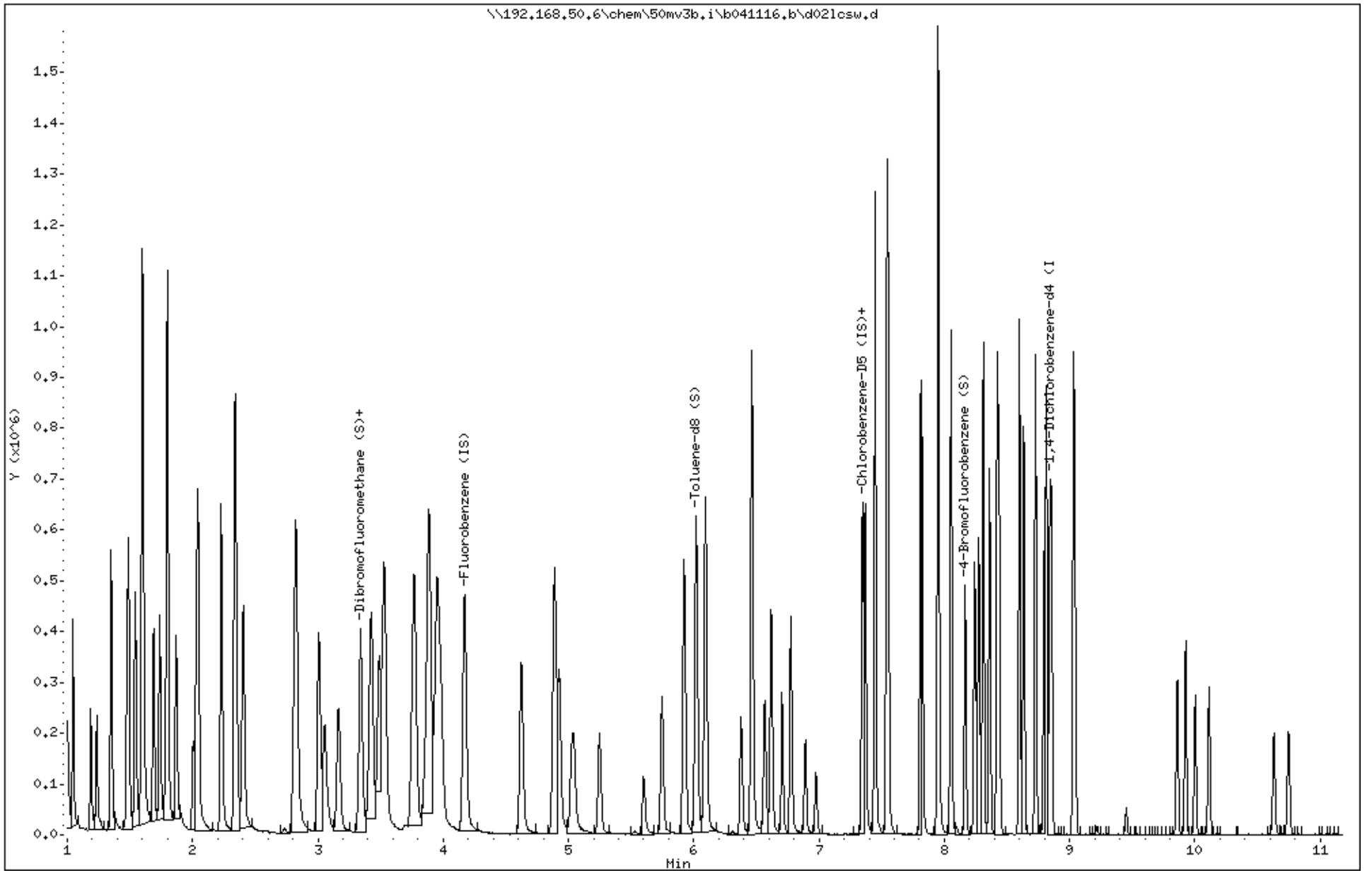
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.044	1.045	(0.250)	193752	41.7690	41.8	
	11 1,1-Dichloroethene	96	1.605	1.601	(0.385)	128046	44.1273	44.1	
	21 Methyl-tert-butyl ether	73	2.032	2.033	(0.487)	245479	47.0021	47.0	
	22 1,2-Dichloroethene (trans)	96	2.043	2.044	(0.489)	120681	46.6328	46.6	
	28 1,2-Dichloroethene (cis)	96	2.822	2.824	(0.676)	127829	49.8217	49.8	
	34 Chloroform	83	3.164	3.165	(0.758)	198874	47.6389	47.6	
	36 1,1,1-Trichloroethane	97	3.340	3.342	(0.800)	183196	50.2888	50.3	
$	35 Dibromofluoromethane (S)	113	3.340	3.342	(0.800)	106010	48.6900	48.7	
	40 Benzene	78	3.773	3.774	(0.904)	463878	46.9788	47.0	
*	44 Fluorobenzene (IS)	96	4.174	4.175	(1.000)	475502	50.0000		
	45 Trichloroethene	95	4.622	4.624	(1.107)	117683	49.5347	49.5	
	47 1,2-Dichloropropane	63	4.927	4.928	(1.180)	106986	46.8235	46.8	
$	55 Toluene-d8 (S)	98	6.022	6.023	(0.820)	374020	49.3396	49.3	
	56 Toluene	91	6.096	6.092	(0.830)	435859	44.1458	44.1	
	60 Tetrachloroethene	166	6.620	6.616	(0.901)	103014	50.9967	51.0	
*	65 Chlorobenzene-D5 (IS)	117	7.346	7.348	(1.000)	234591	50.0000		
	66 Chlorobenzene	112	7.368	7.369	(1.003)	223196	46.1709	46.2	
	68 Ethylbenzene	106	7.448	7.449	(1.014)	134364	47.7238	47.7	
	69 m&p-Xylene	106	7.549	7.550	(1.028)	326944	95.9112	95.9	
	70 o-Xylene	106	7.806	7.807	(1.063)	147940	47.9070	47.9	
	73 Isopropylbenzene	105	8.051	8.053	(1.096)	400099	48.4871	48.5	
$	74 4-Bromofluorobenzene (S)	95	8.163	8.165	(1.111)	92405	44.8367	44.8	
	76 1,1,2,2-Tetrachloroethane	83	8.254	8.256	(0.934)	56158	42.0738	42.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
84 1,2,4-Trimethylbenzene	105	8.633	8.635	(0.976)	274549	45.3590	45.4	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.842	8.843	(1.000)	89685	50.0000		
95 Naphthalene	128	10.001	10.002	(1.131)	144331	41.9694	42.0	

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d
Date : 11-APR-2016 23:46
Client ID: MBLCS
Sample Info: 1516502,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

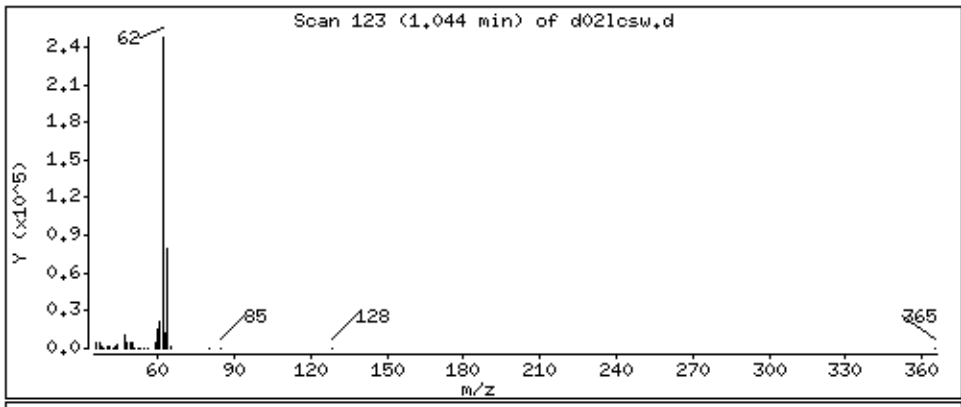
Column phase: DB-624

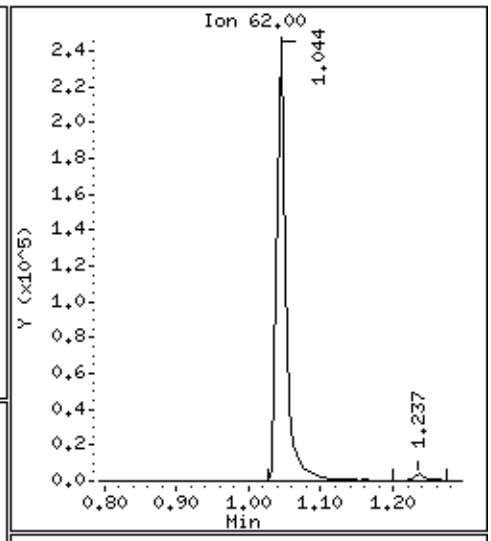
Column diameter: 0.18

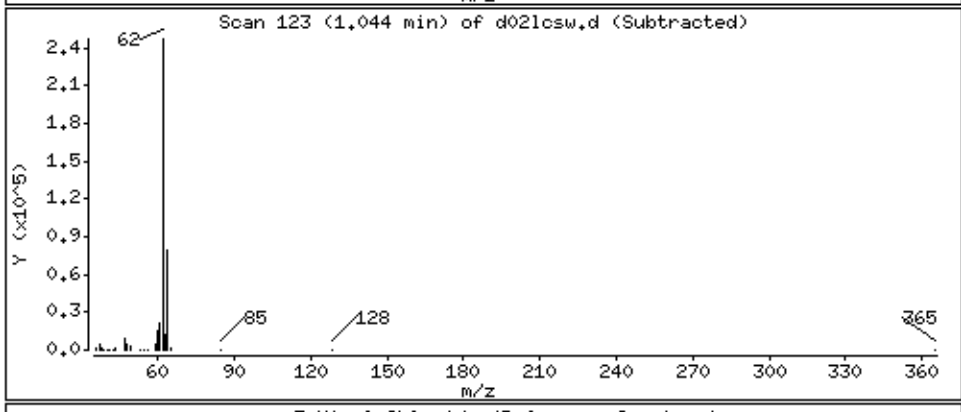
3 Vinyl Chloride

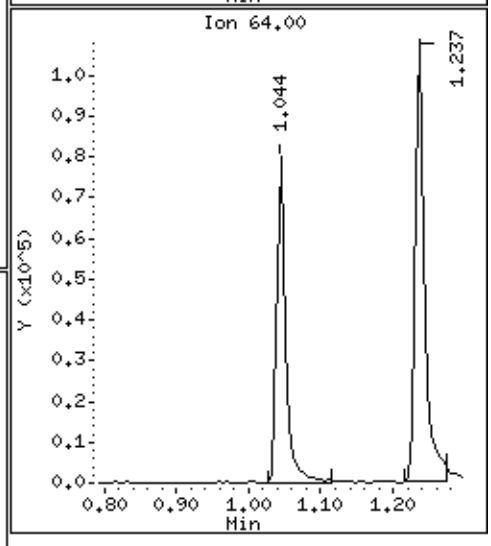
Concentration: 41.8 ppb

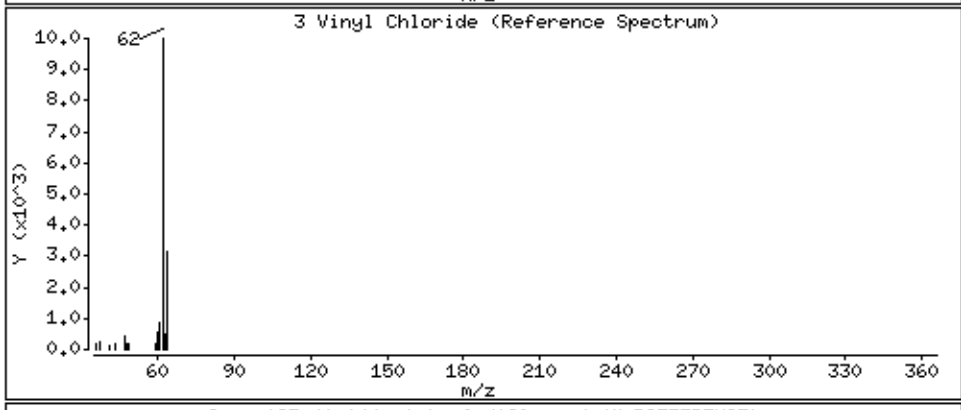
Review Code:

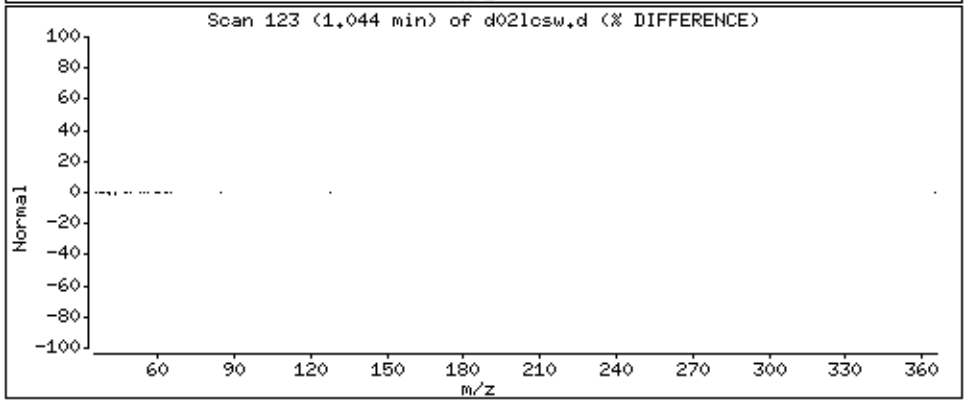












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

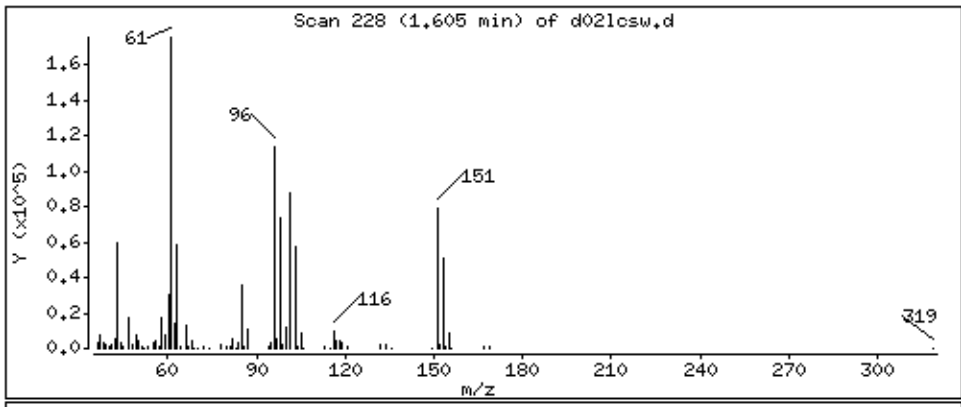
Column phase: DB-624

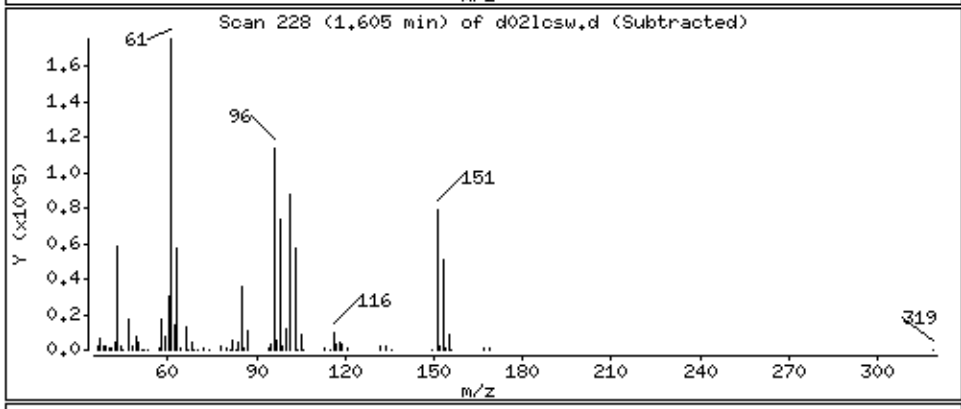
Column diameter: 0.18

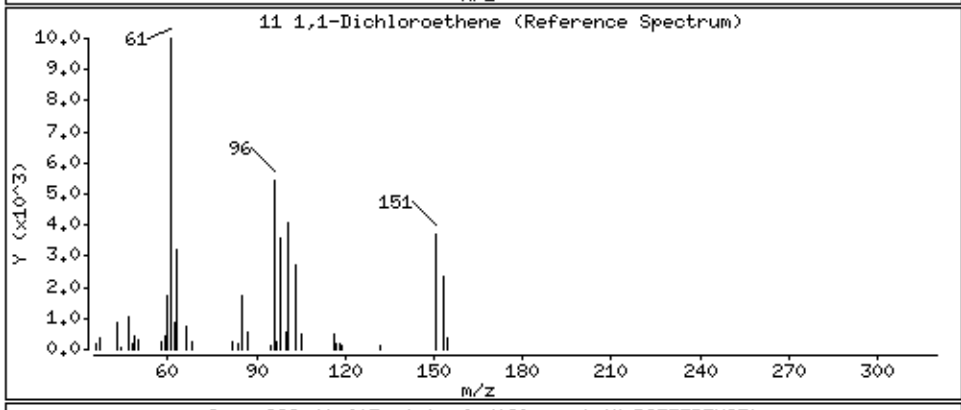
11 1,1-Dichloroethene

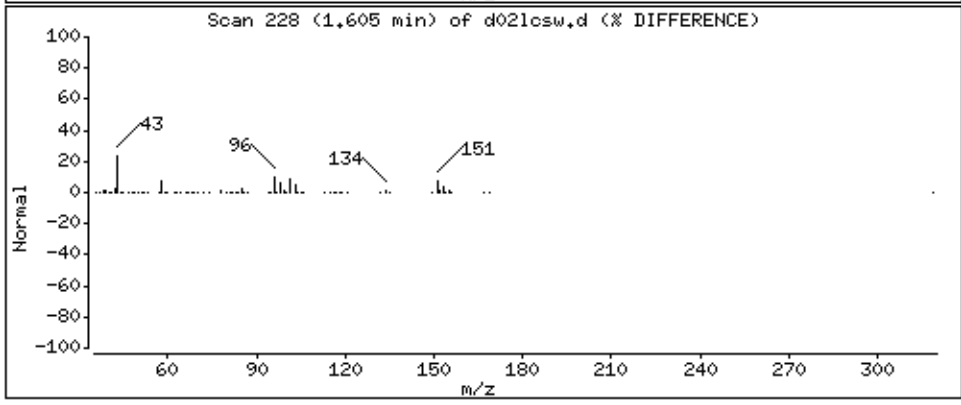
Concentration: 44.1 ppb

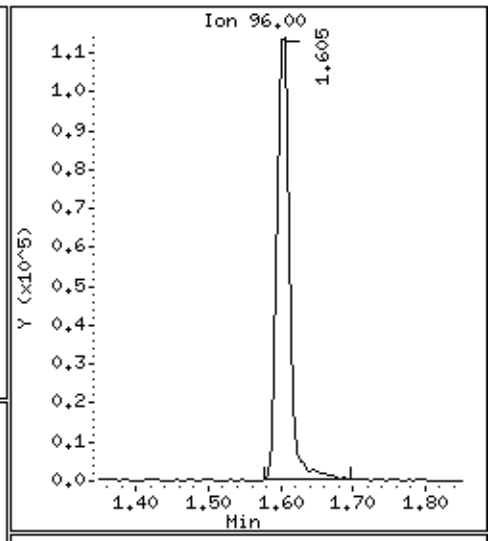
Review Code:

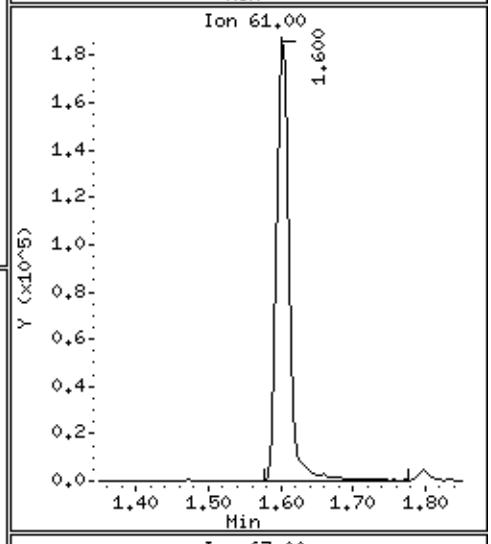


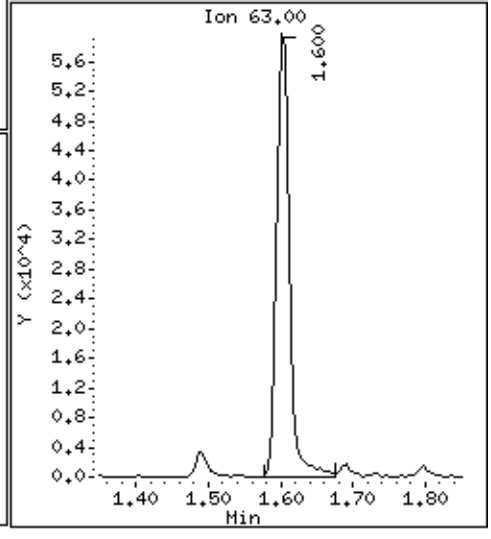












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

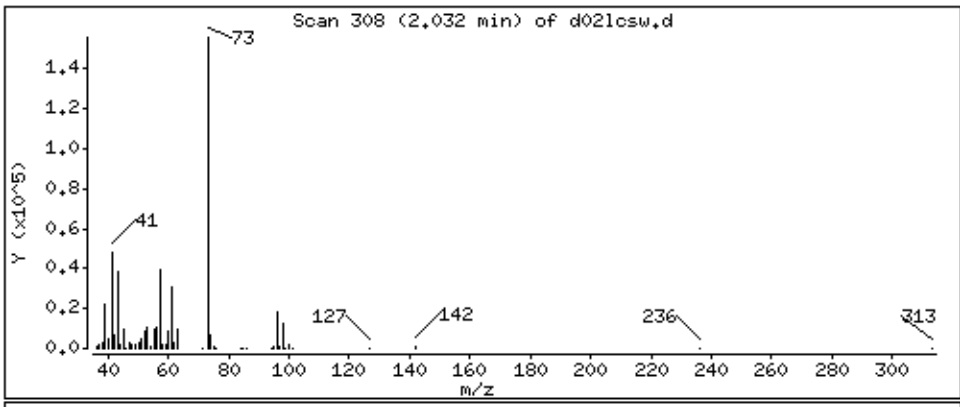
Column phase: DB-624

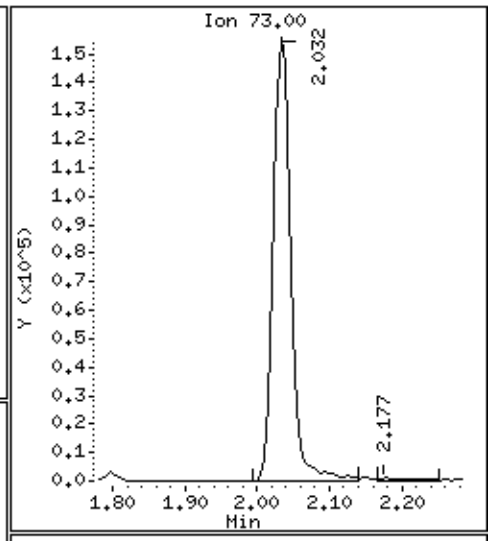
Column diameter: 0.18

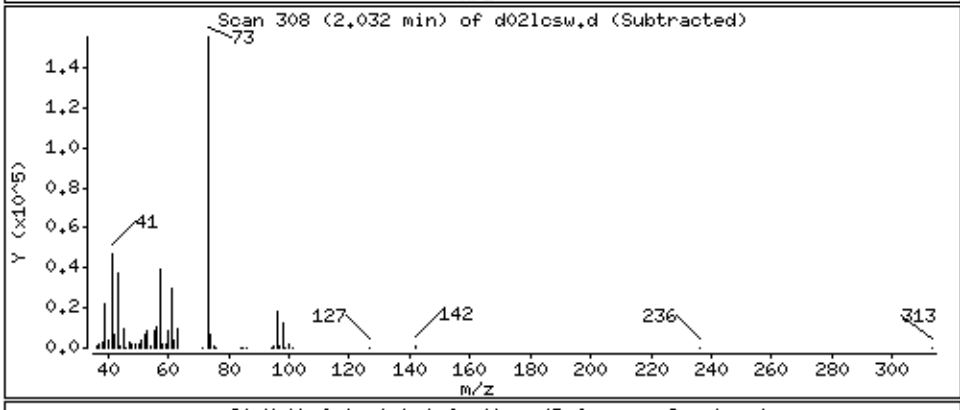
21 Methyl-tert-butyl ether

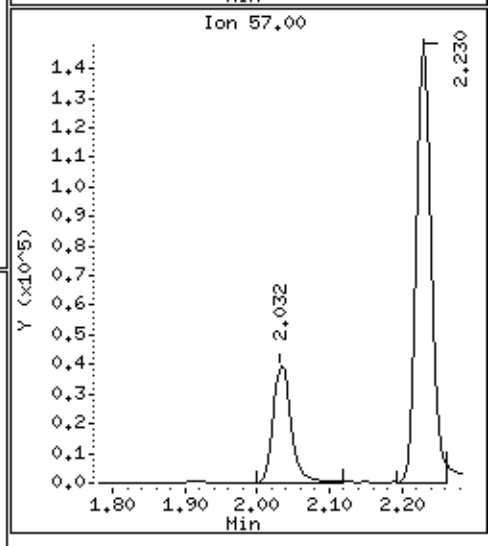
Concentration: 47.0 ppb

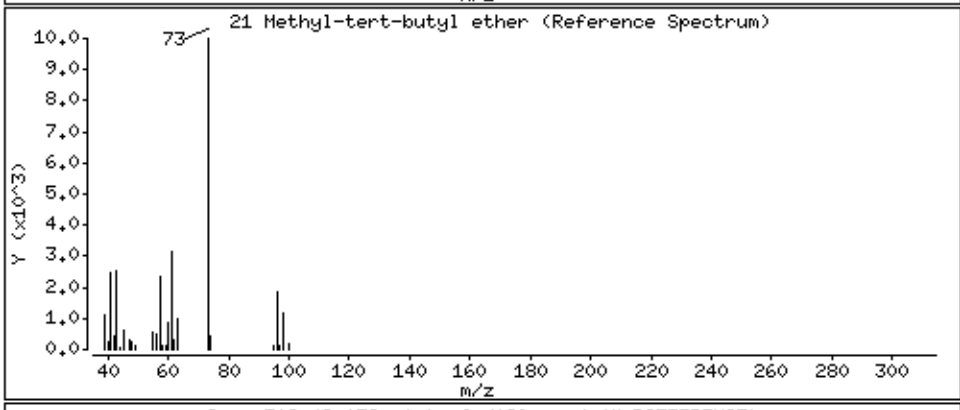
Review Code:

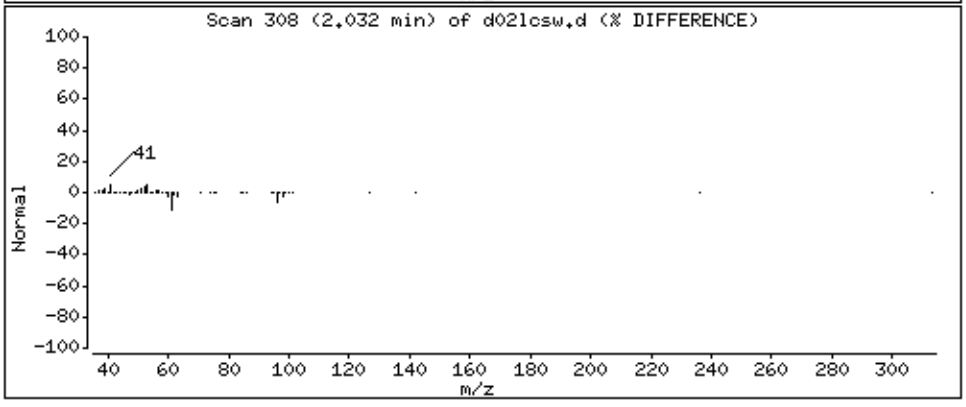












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

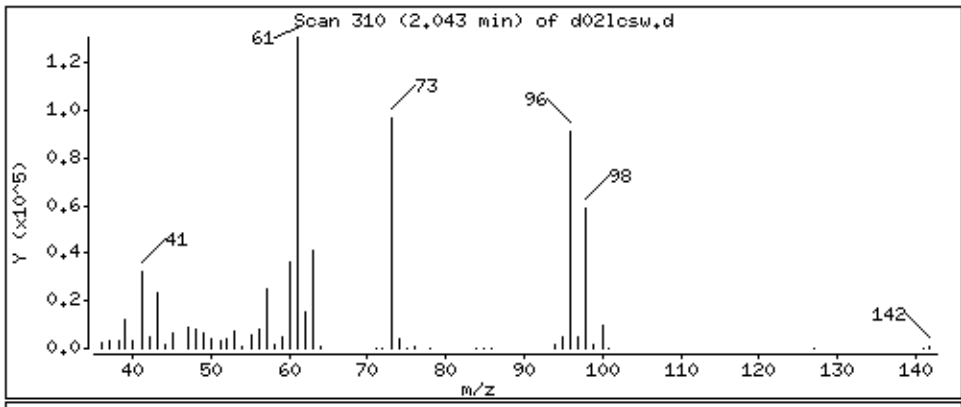
Column phase: DB-624

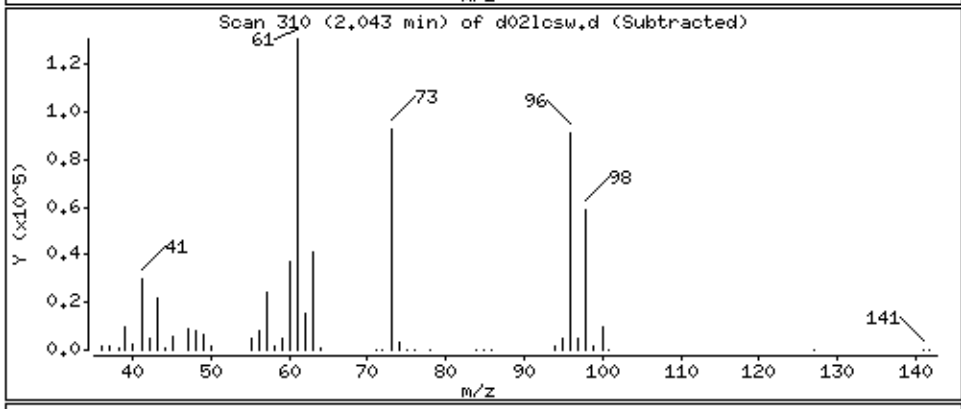
Column diameter: 0.18

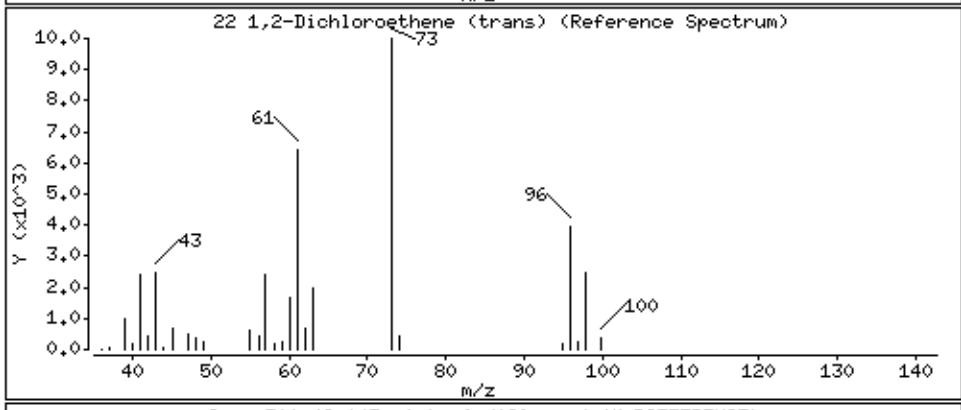
22 1,2-Dichloroethene (trans)

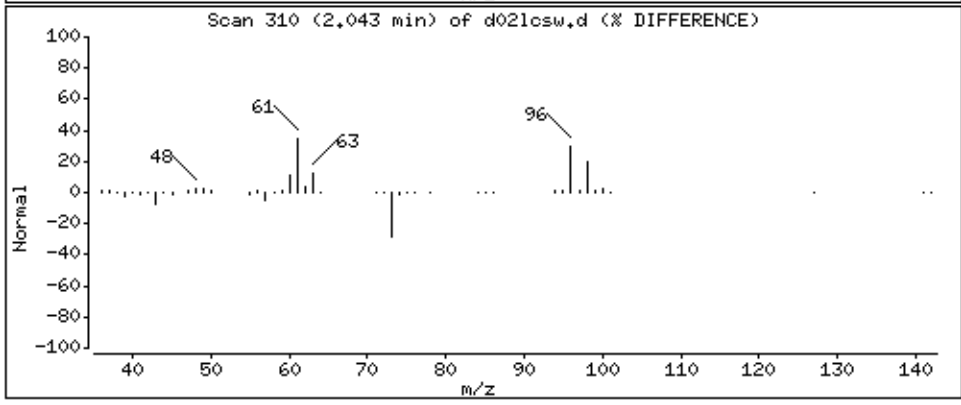
Concentration: 46.6 ppb

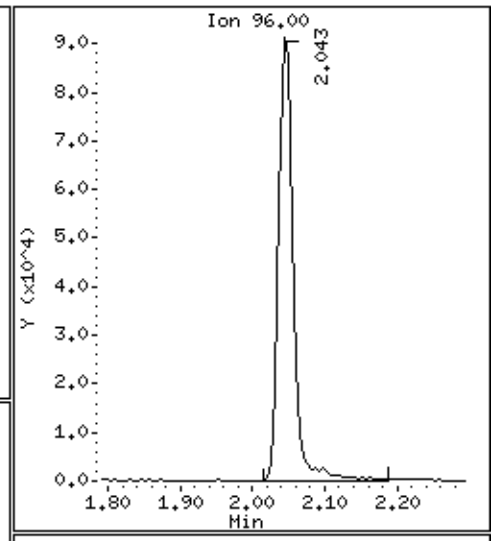
Review Code:

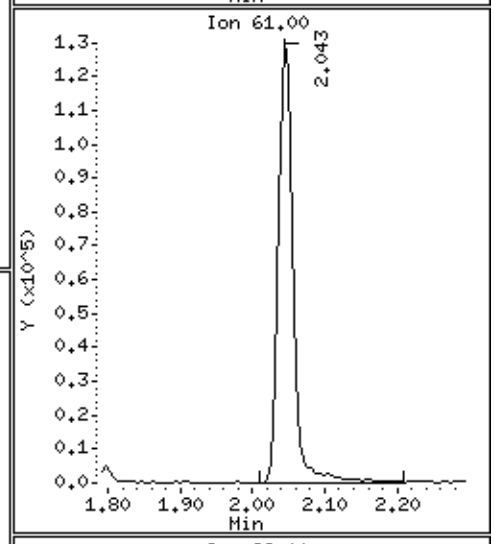


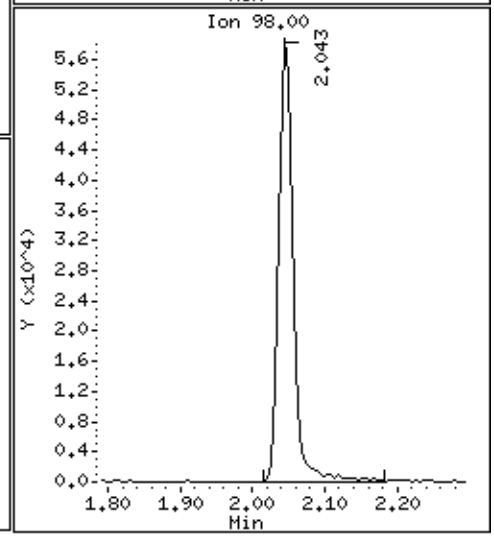












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

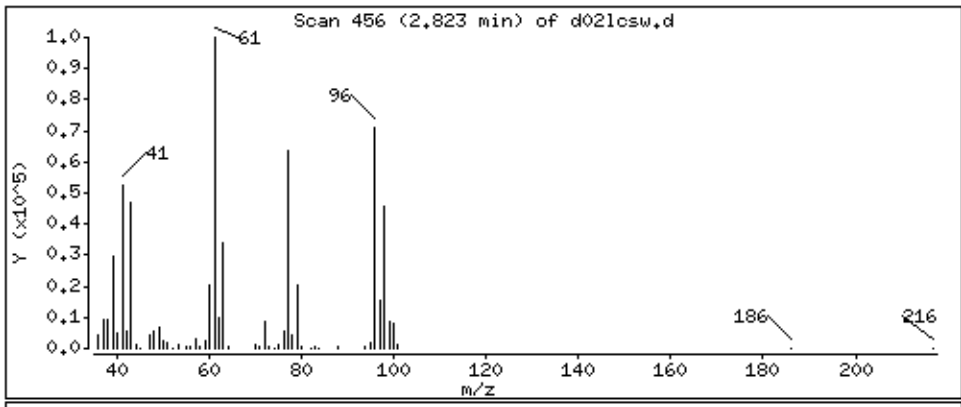
Column phase: DB-624

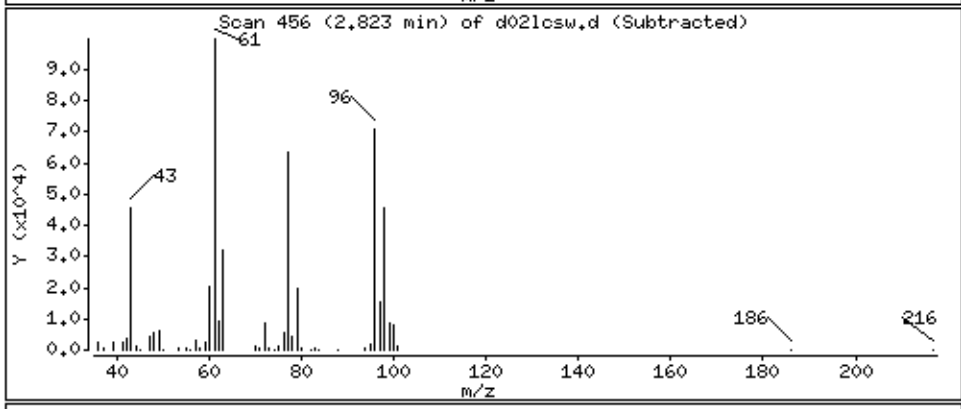
Column diameter: 0.18

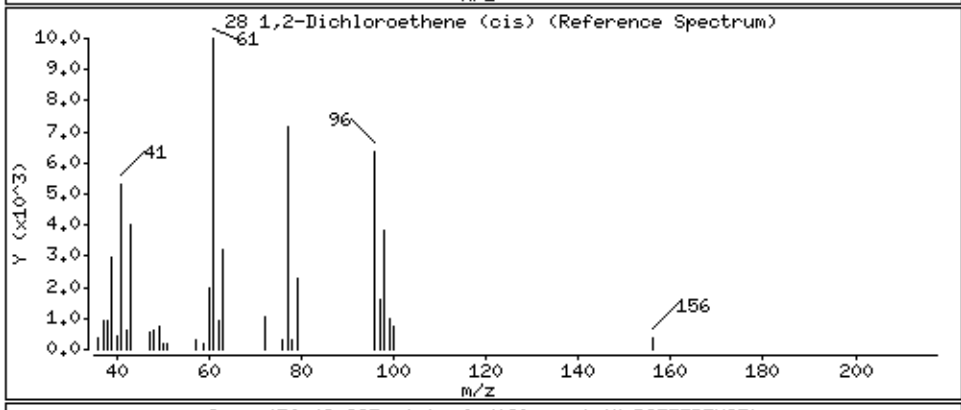
28 1,2-Dichloroethene (cis)

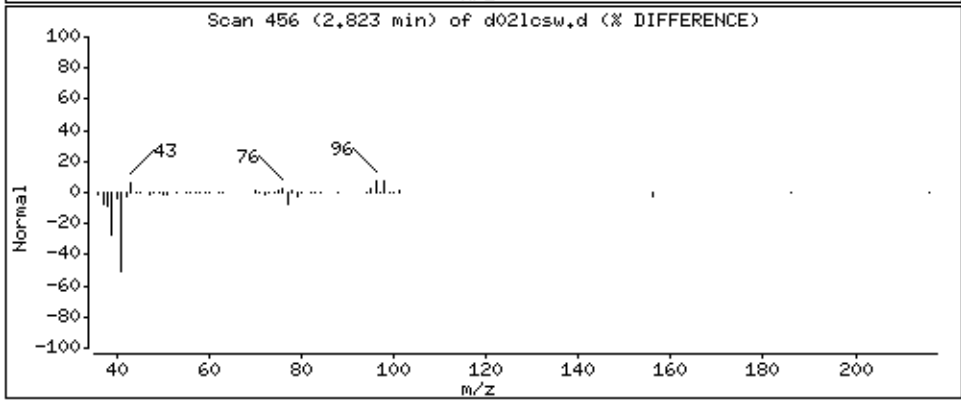
Concentration: 49.8 ppb

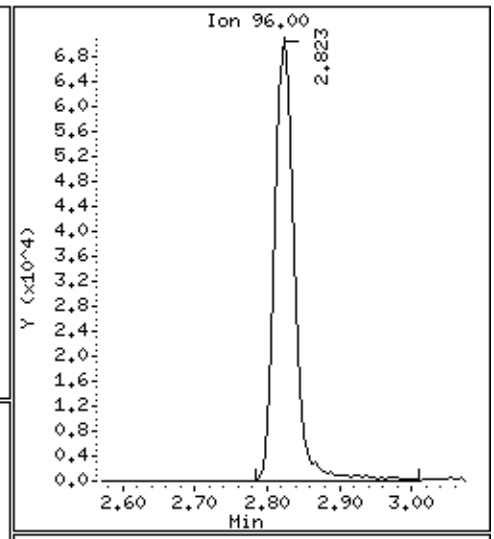
Review Code:

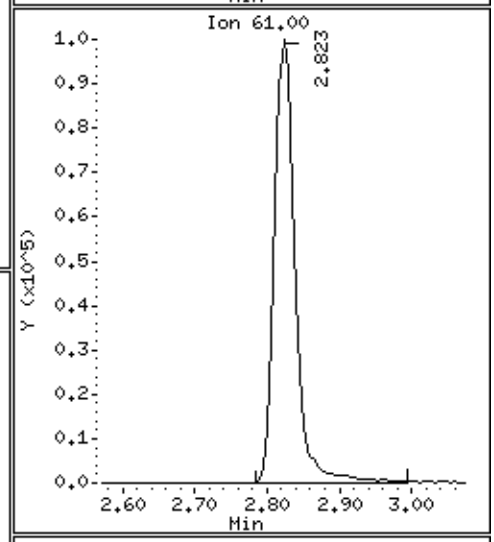


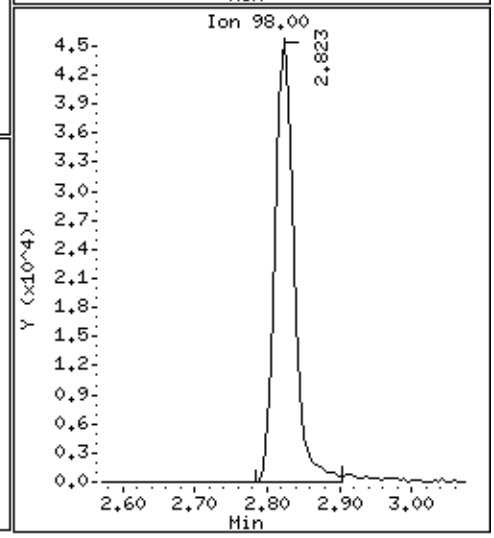












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

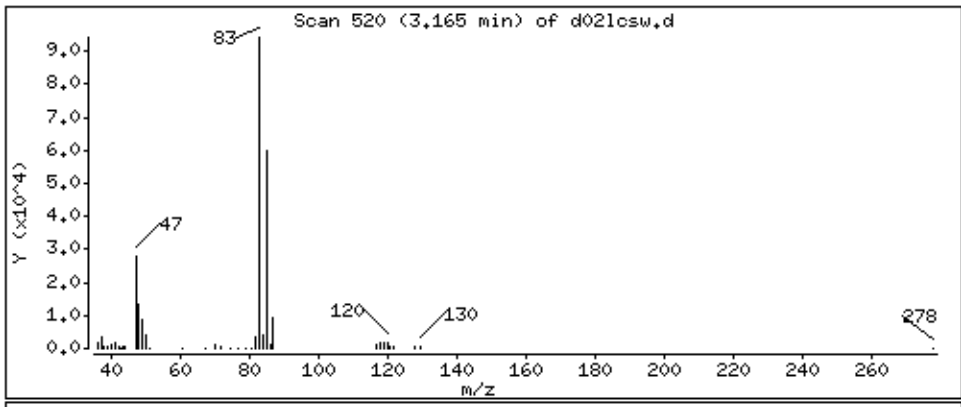
Column phase: DB-624

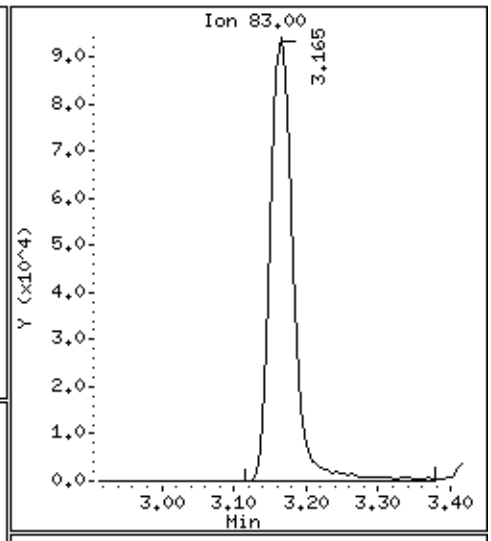
Column diameter: 0.18

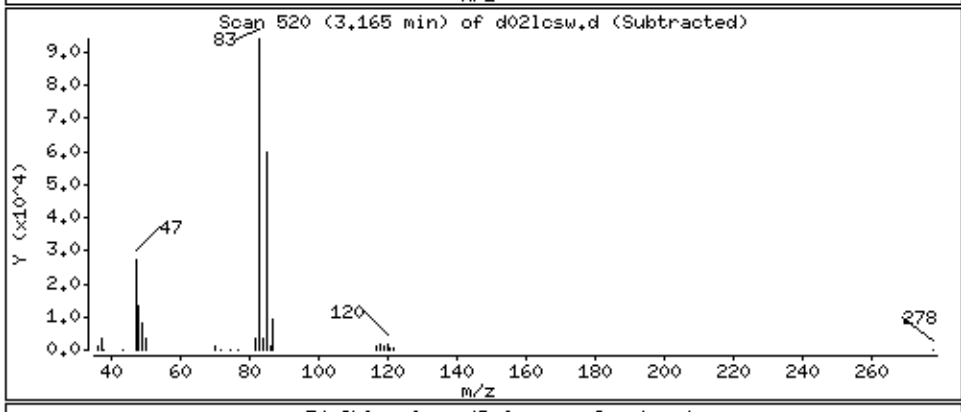
34 Chloroform

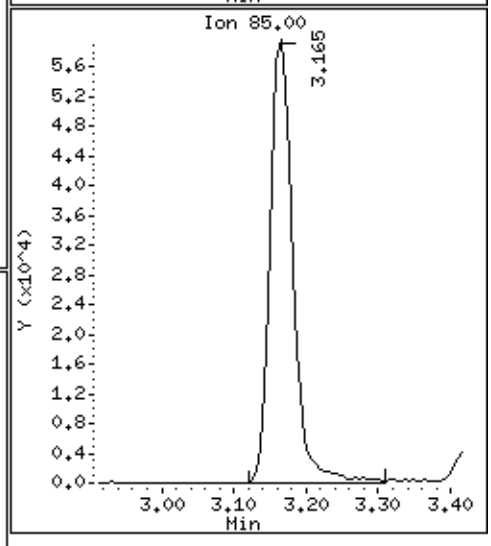
Concentration: 47.6 ppb

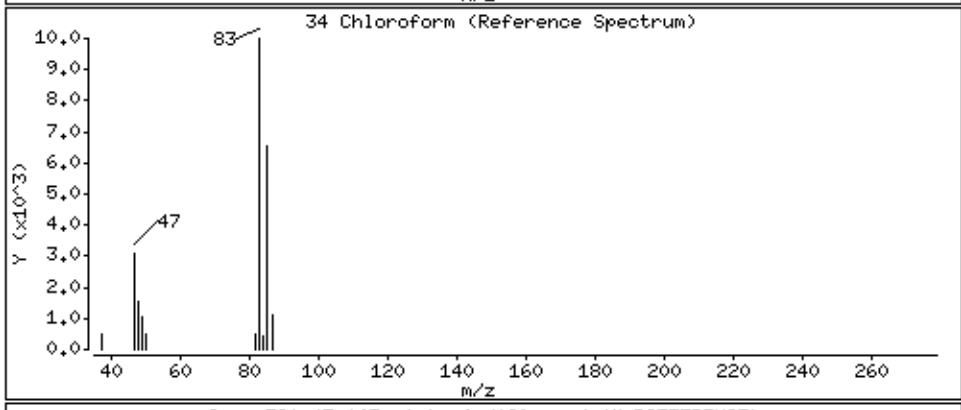
Review Code:

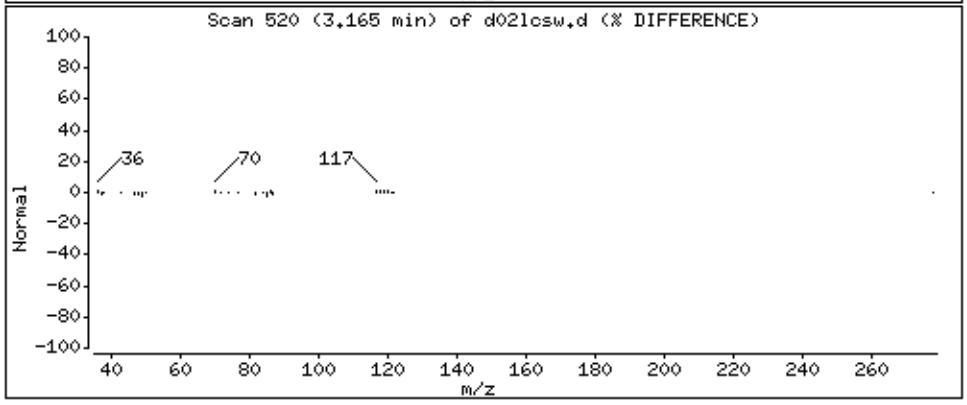












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

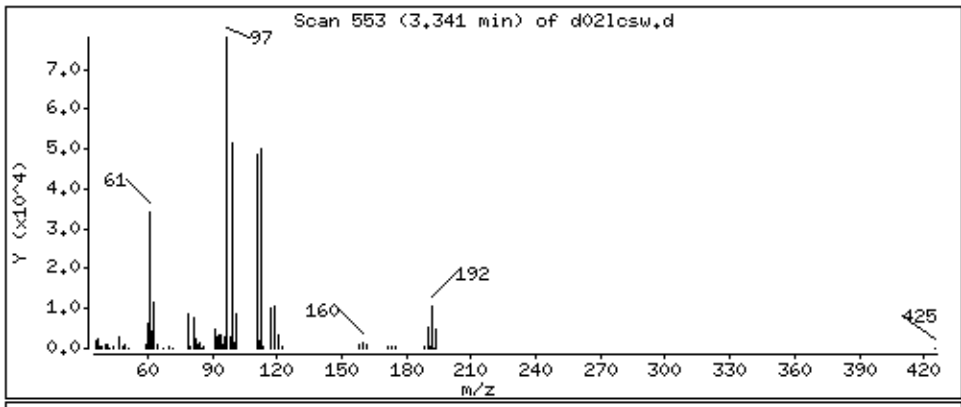
Column phase: DB-624

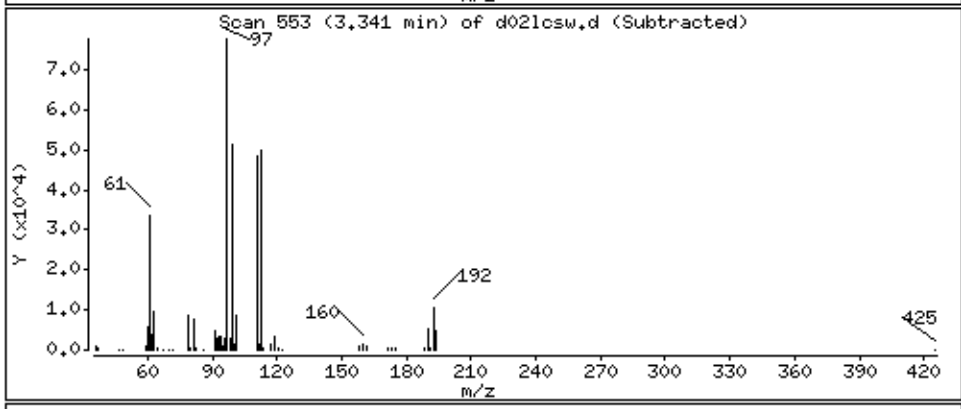
Column diameter: 0.18

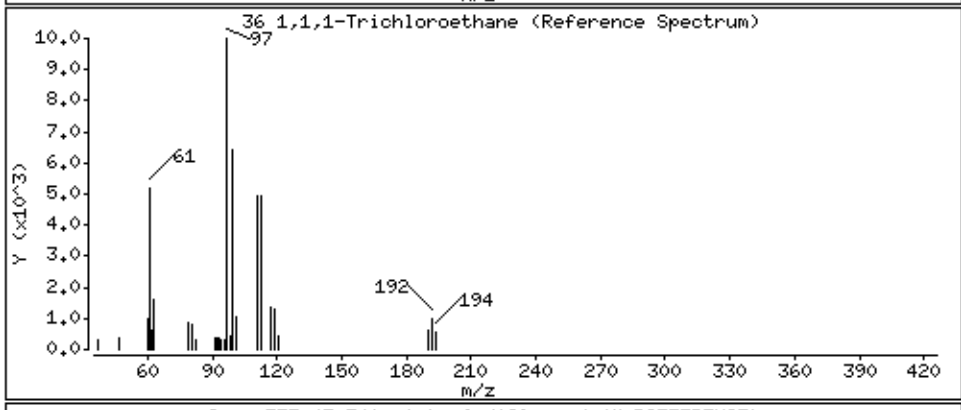
36 1,1,1-Trichloroethane

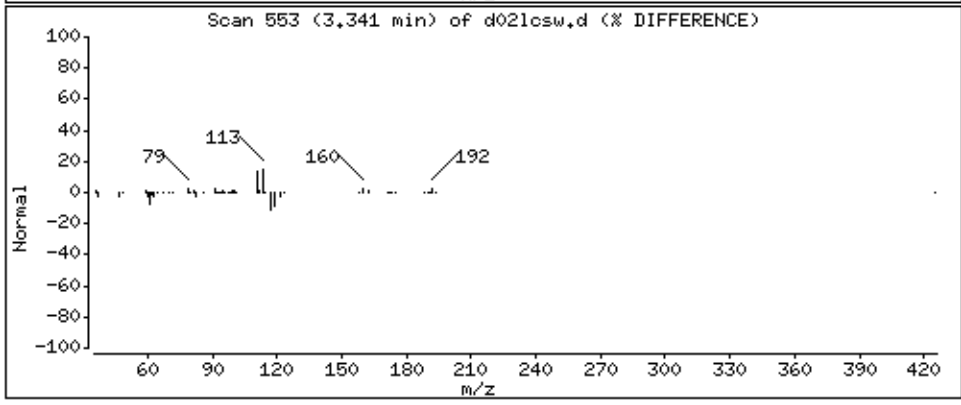
Concentration: 50.3 ppb

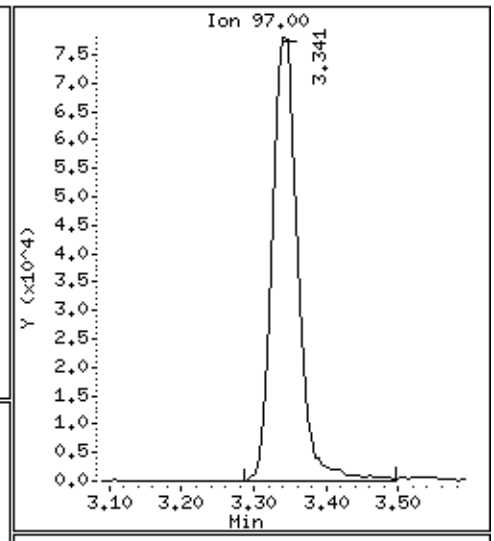
Review Code:

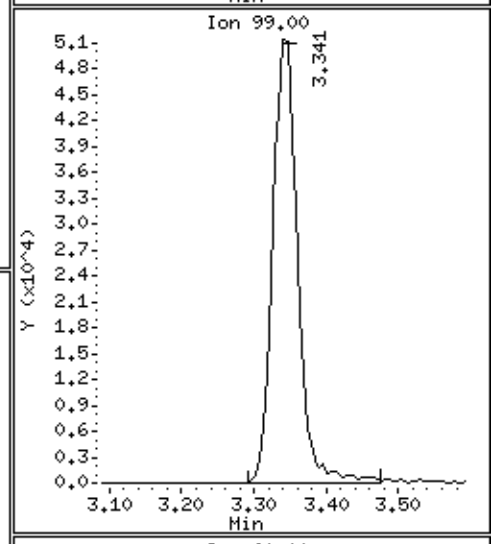


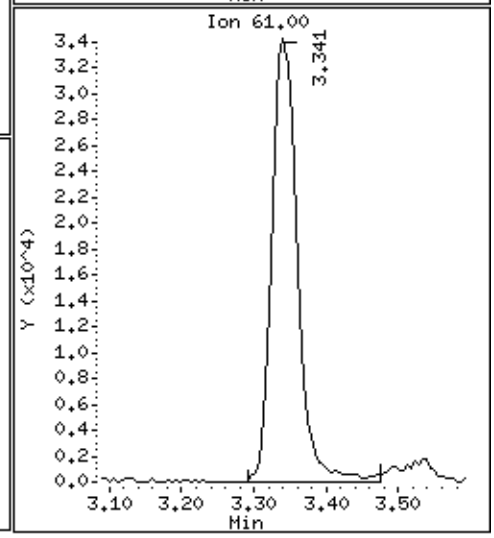












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

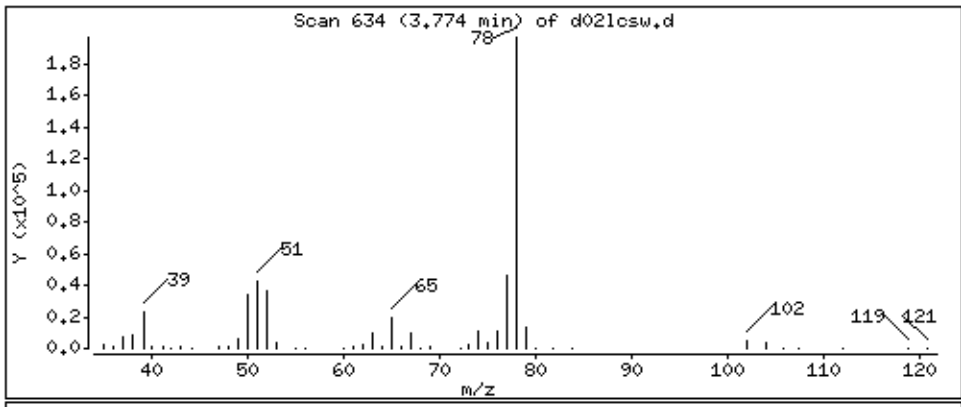
Column phase: DB-624

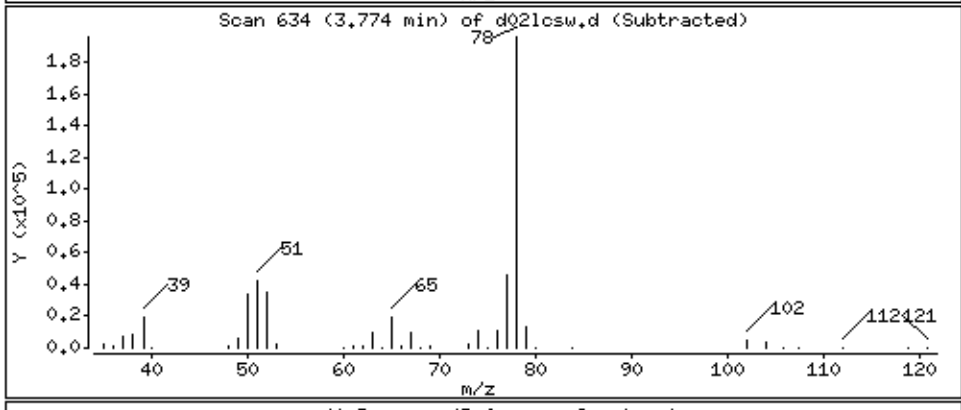
Column diameter: 0.18

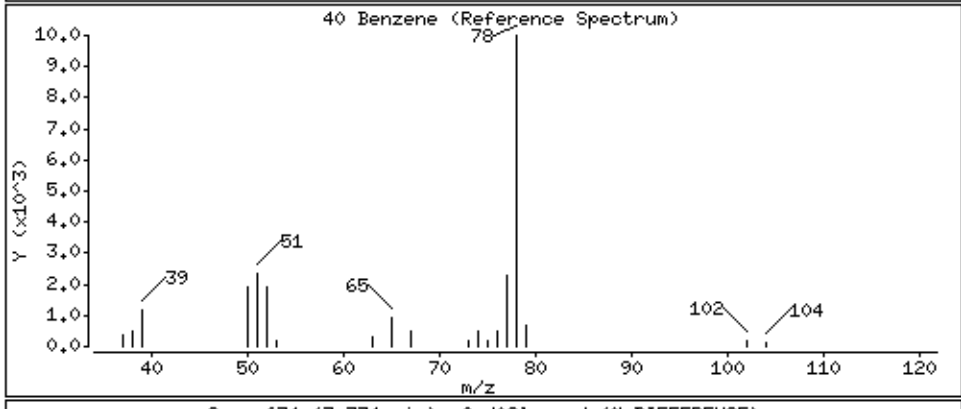
40 Benzene

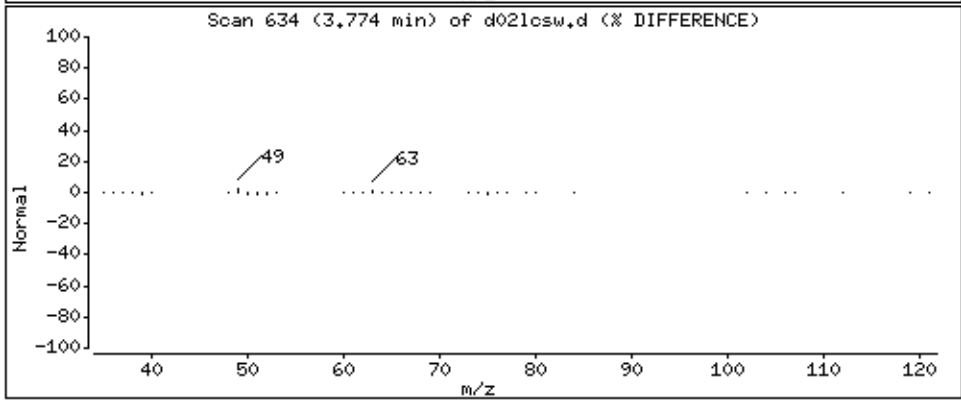
Concentration: 47.0 ppb

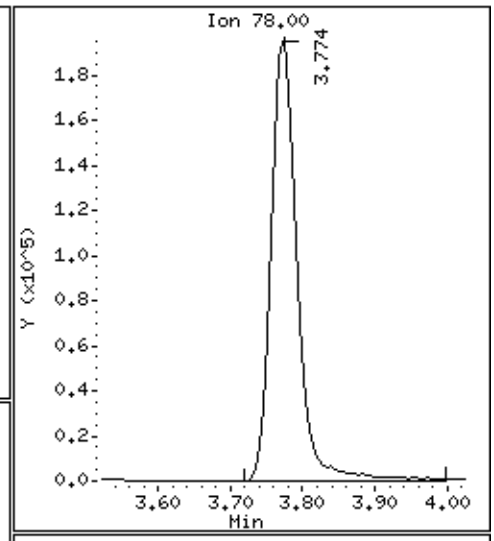
Review Code:

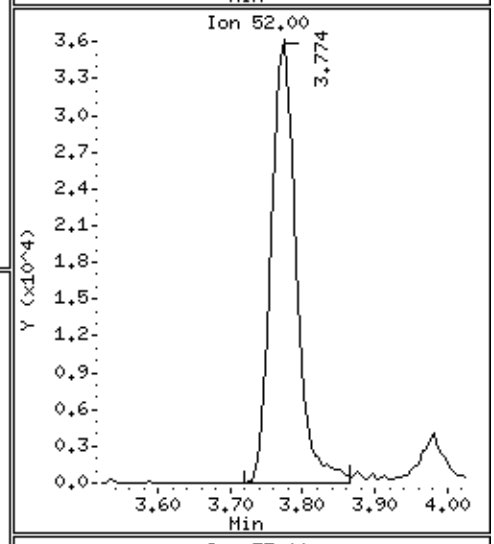


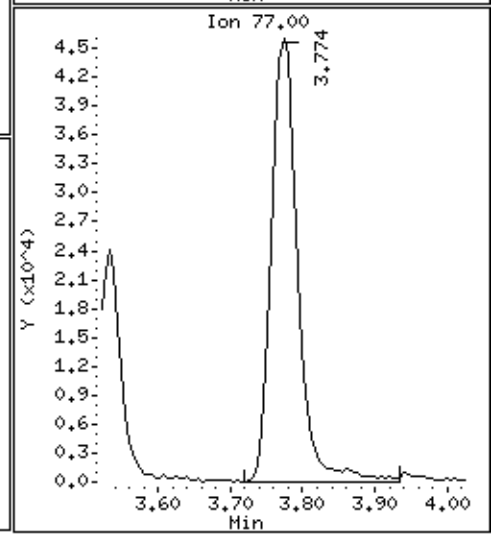












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

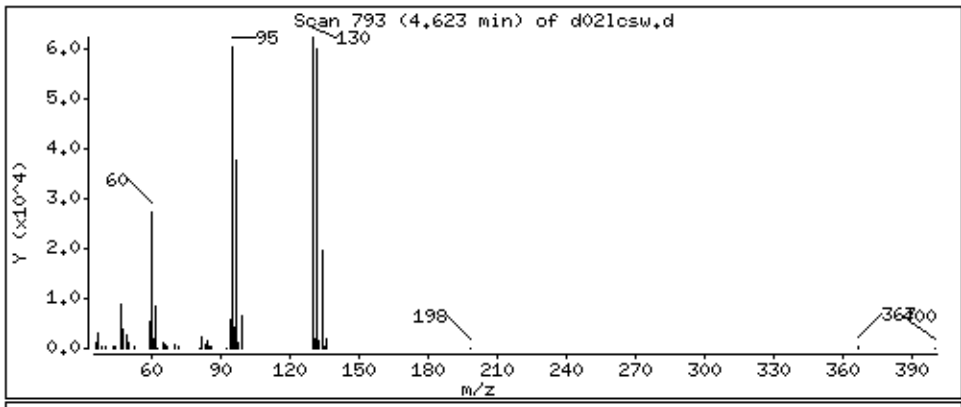
Column phase: DB-624

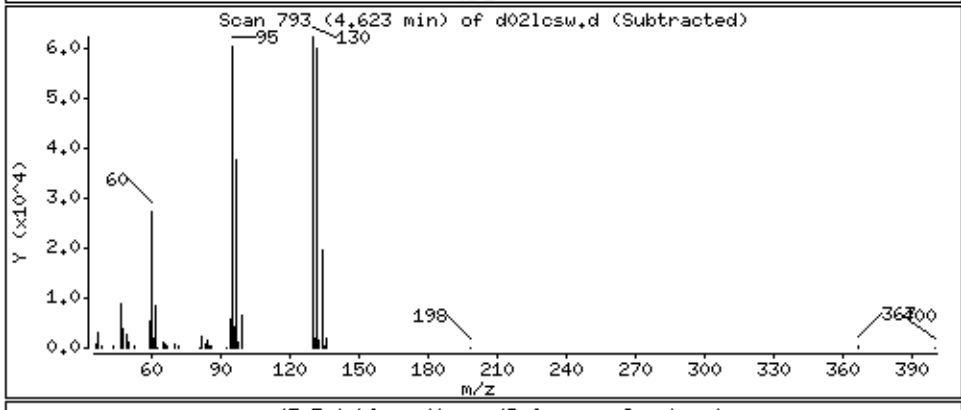
Column diameter: 0.18

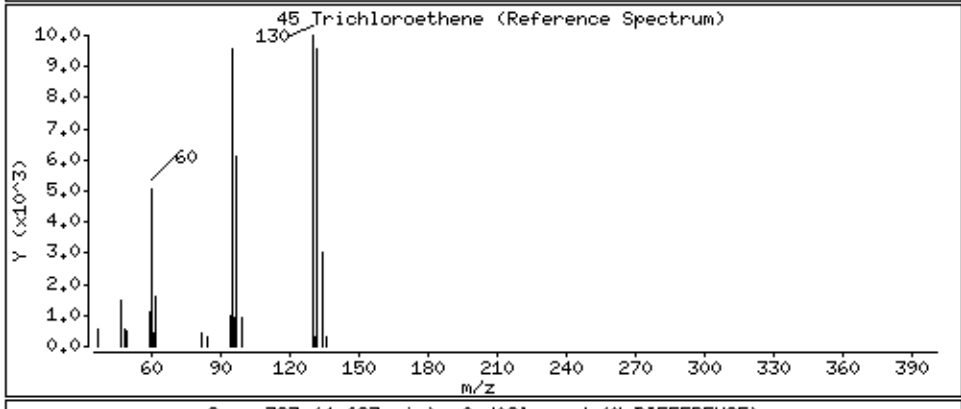
45 Trichloroethene

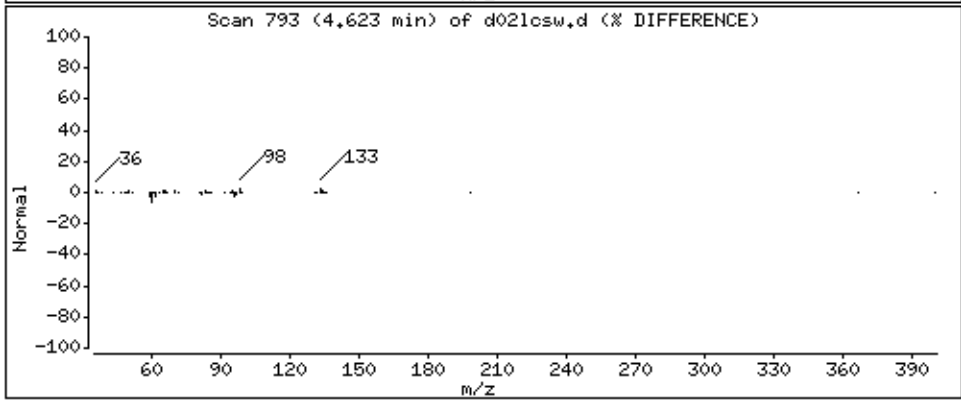
Concentration: 49.5 ppb

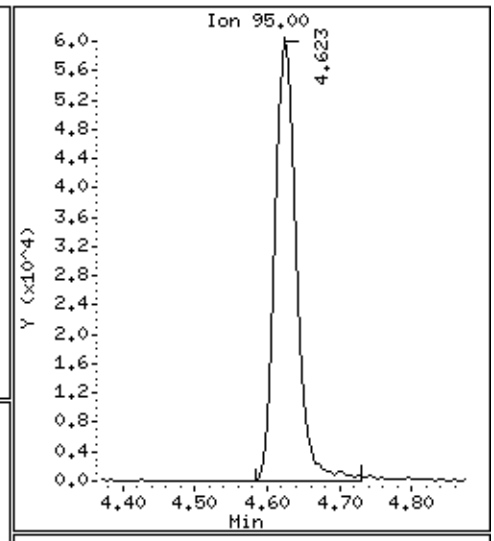
Review Code:

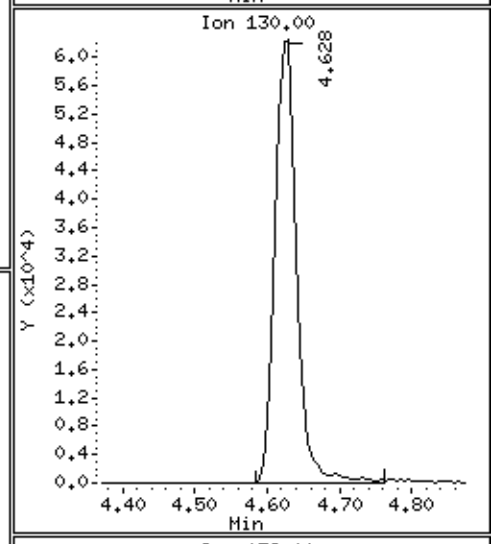


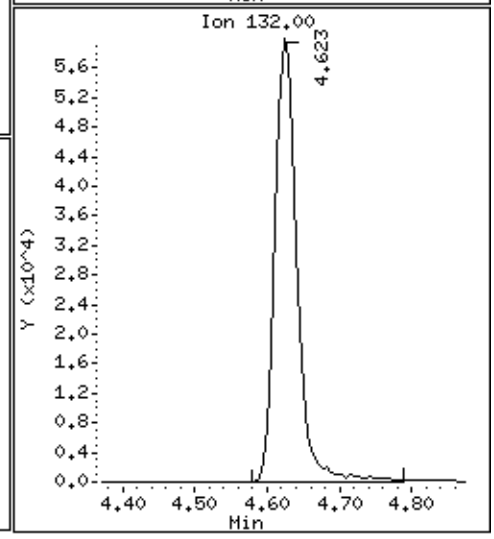












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

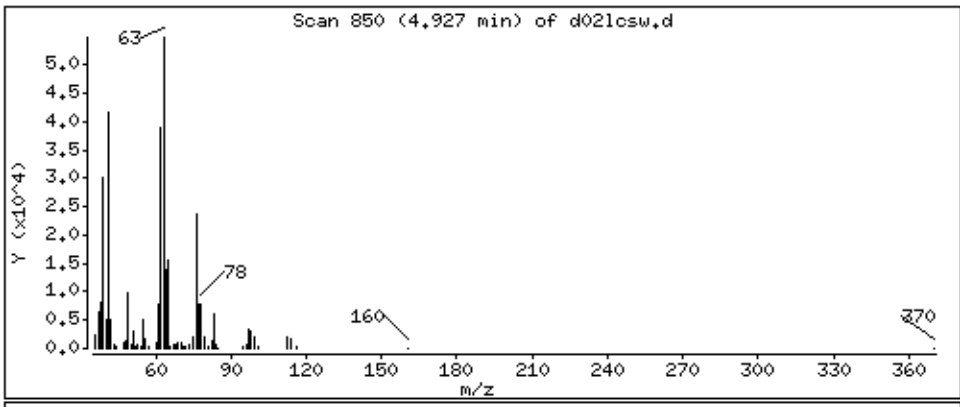
Column phase: DB-624

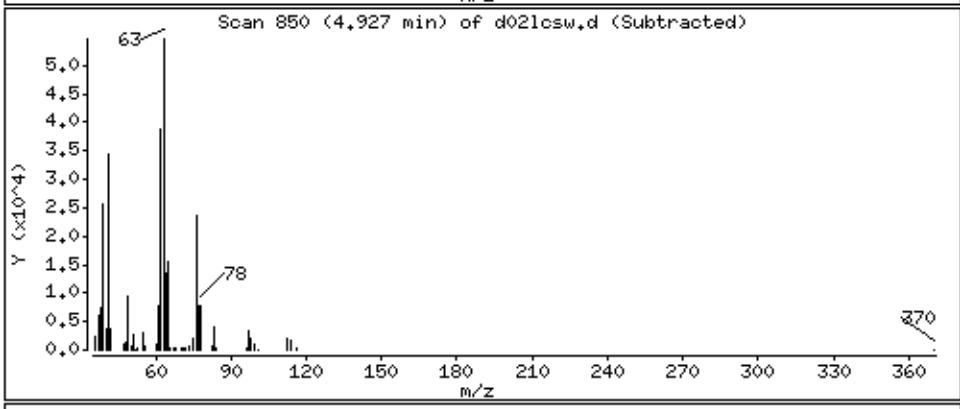
Column diameter: 0.18

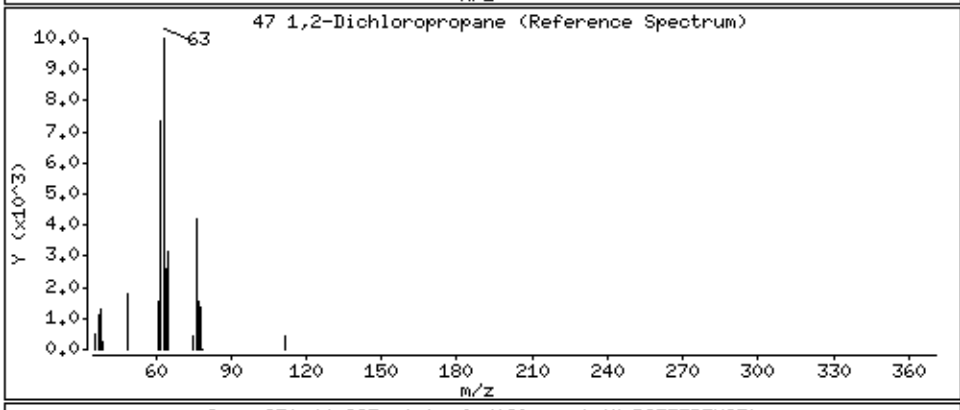
47 1,2-Dichloropropane

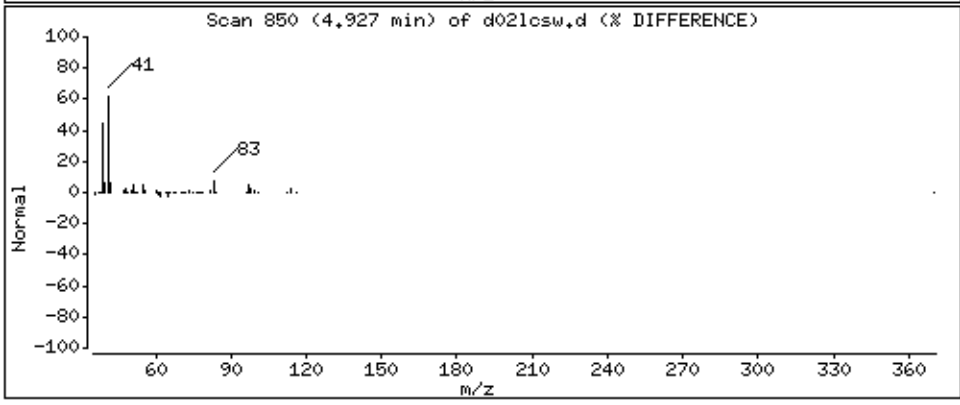
Concentration: 46.8 ppb

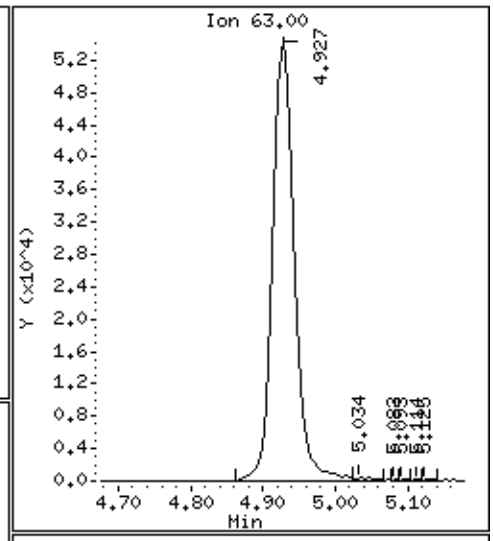
Review Code:

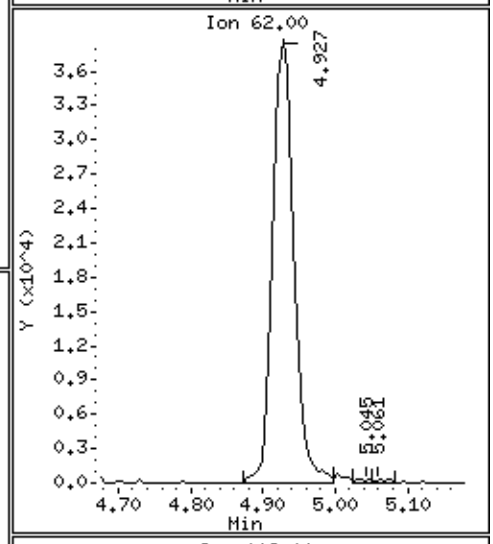


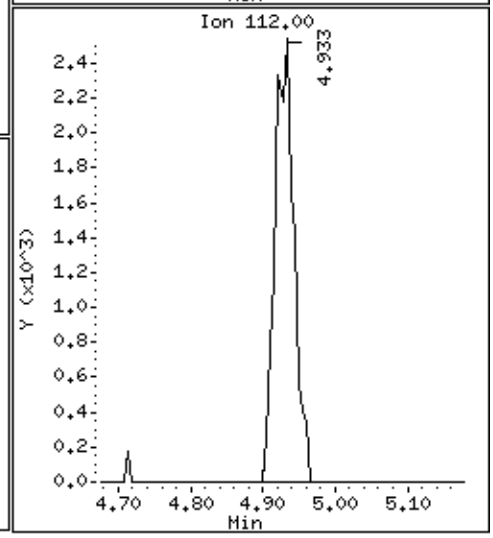












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

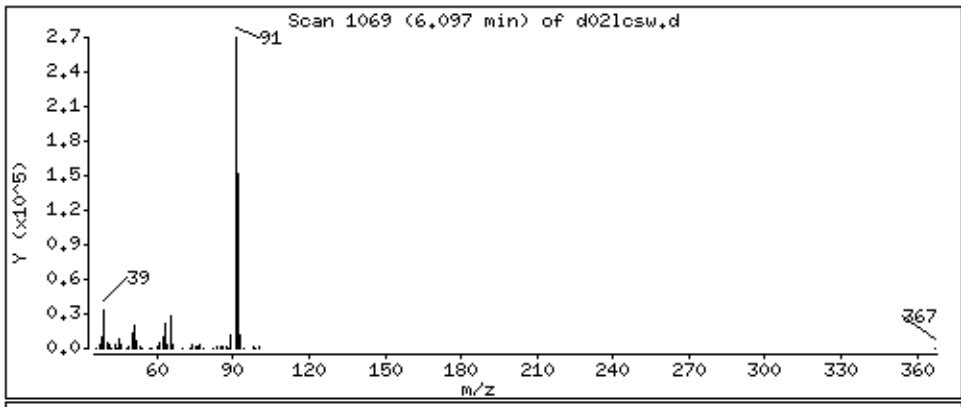
Column phase: DB-624

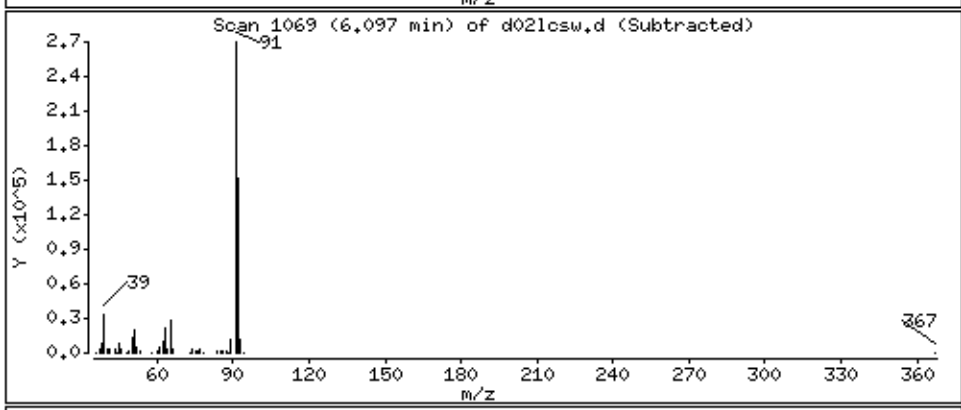
Column diameter: 0.18

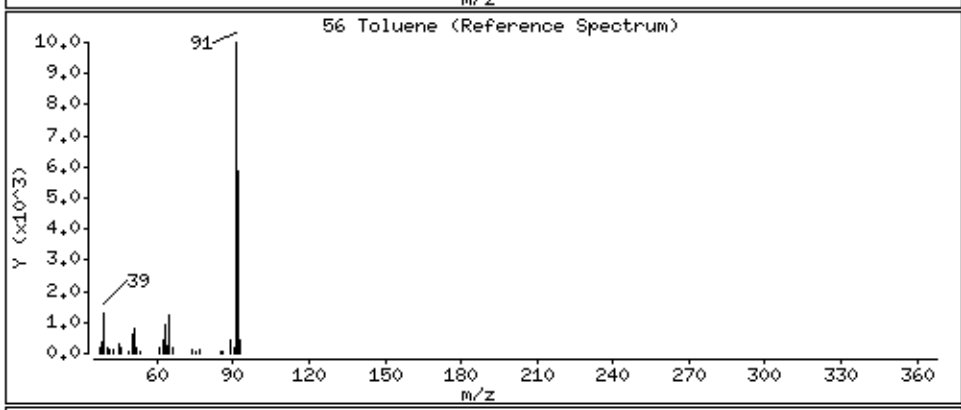
56 Toluene

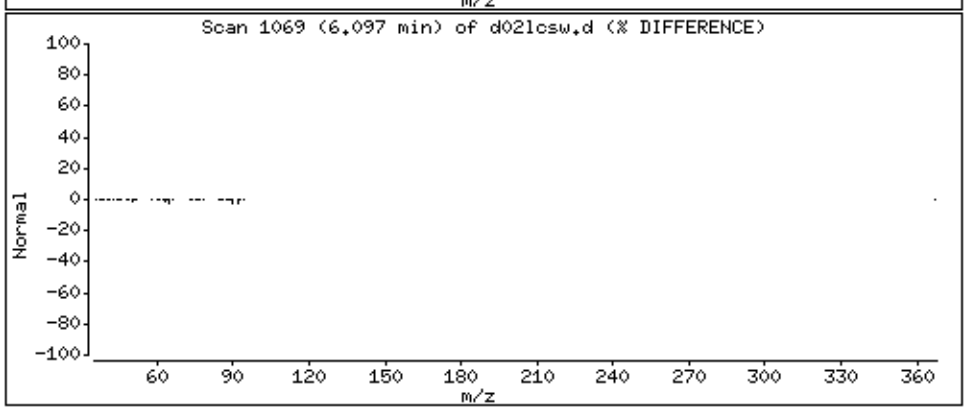
Concentration: 44.1 ppb

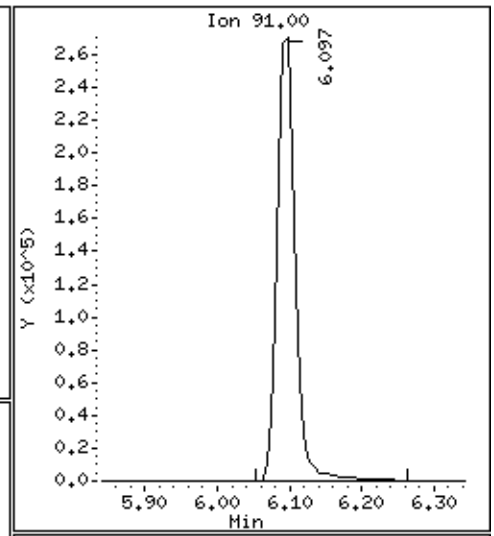
Review Code:

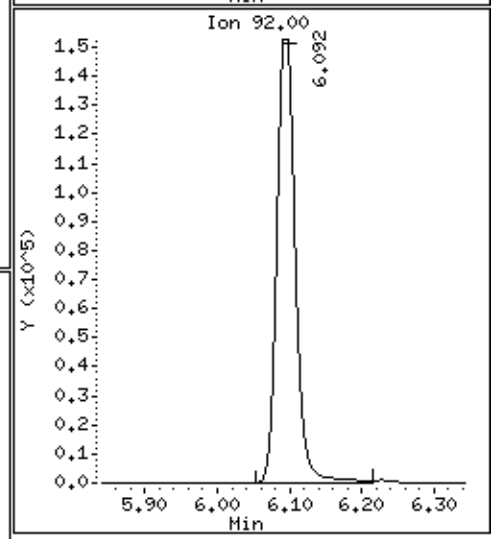












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

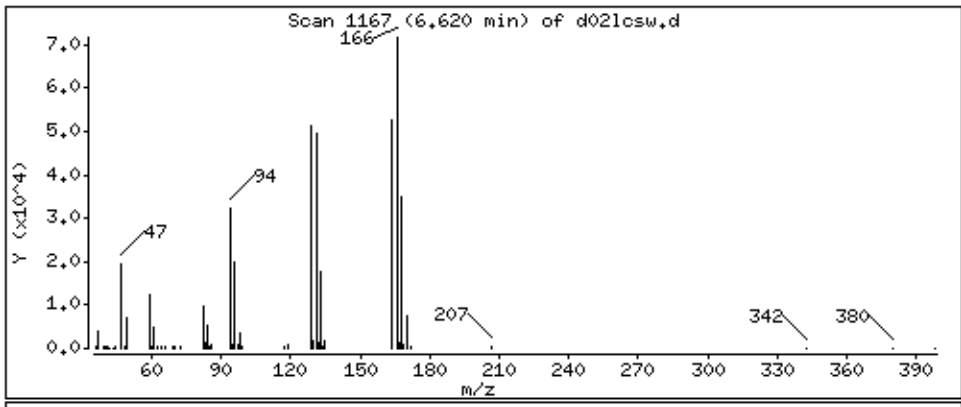
Column phase: DB-624

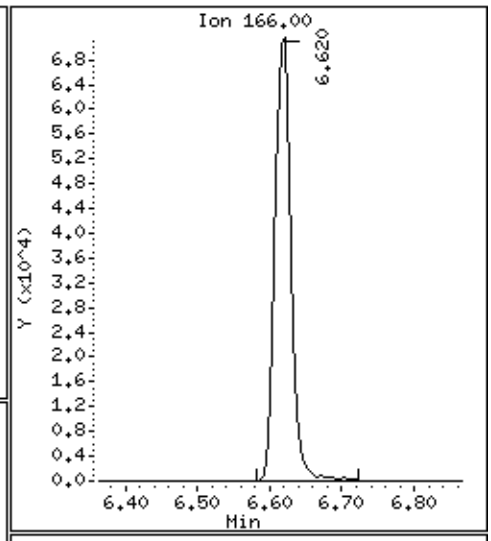
Column diameter: 0.18

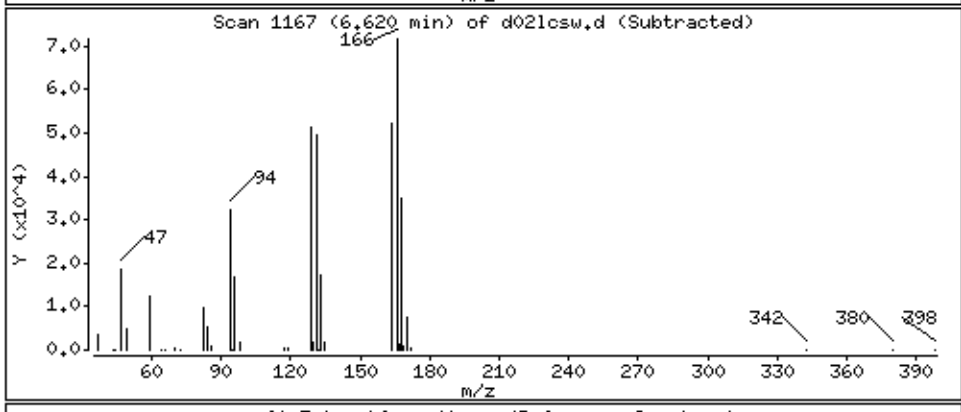
60 Tetrachloroethene

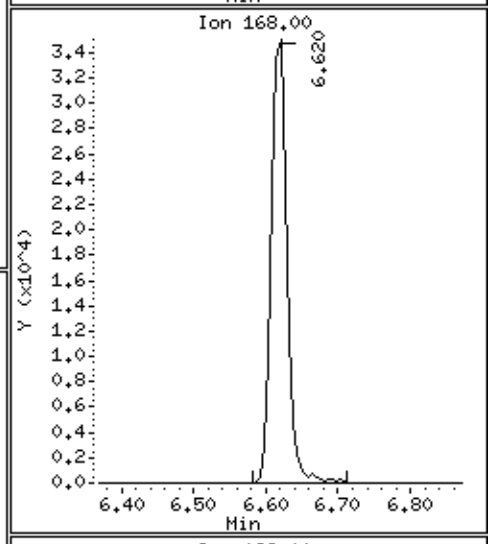
Concentration: 51.0 ppb

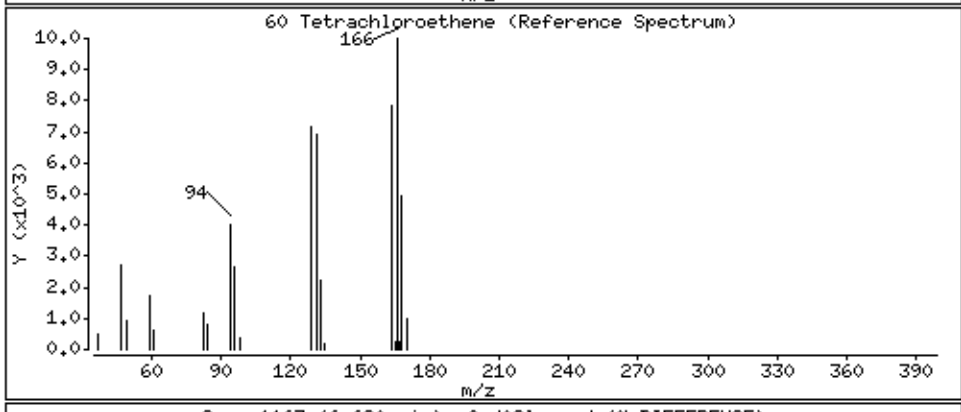
Review Code:

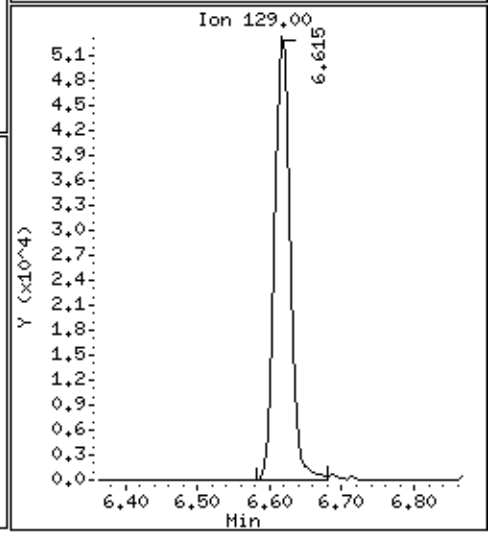


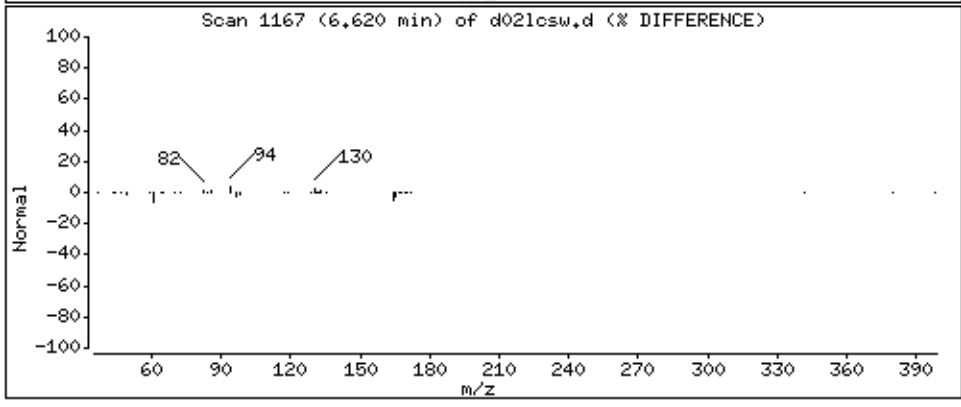












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

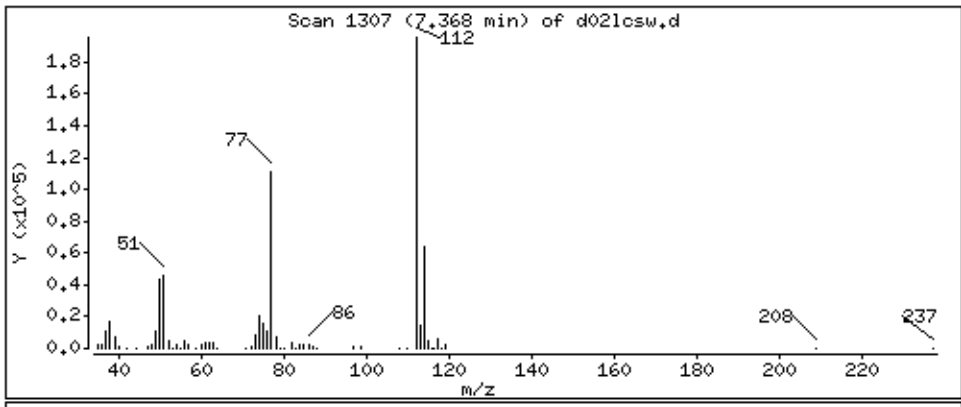
Column phase: DB-624

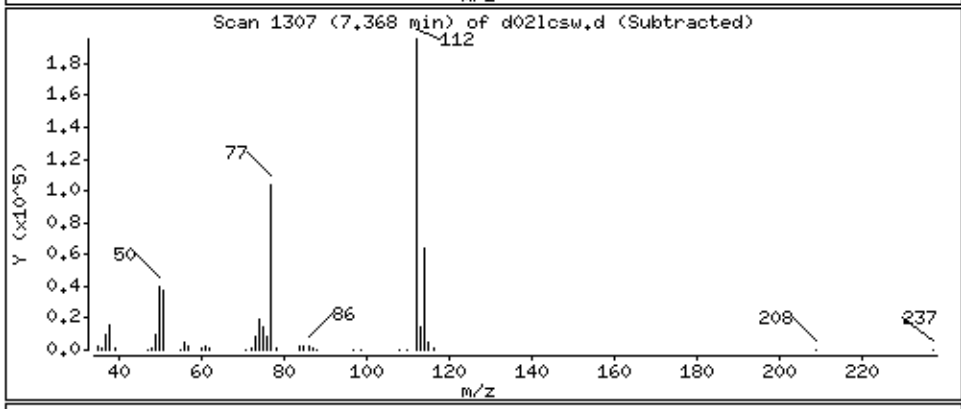
Column diameter: 0.18

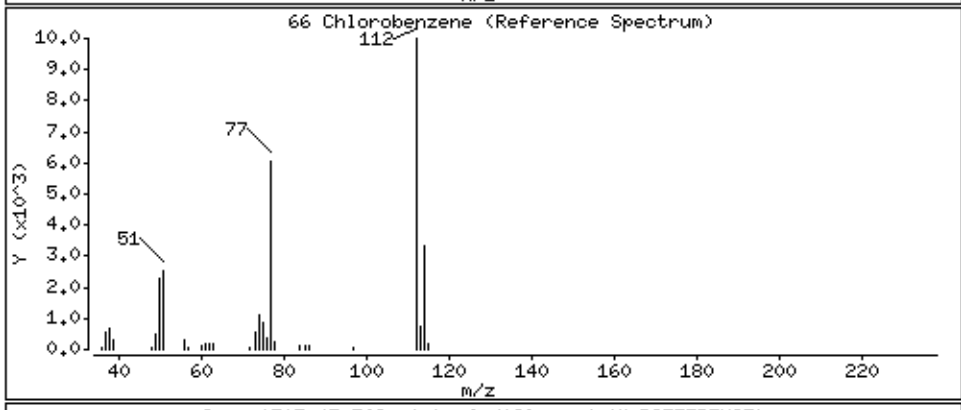
66 Chlorobenzene

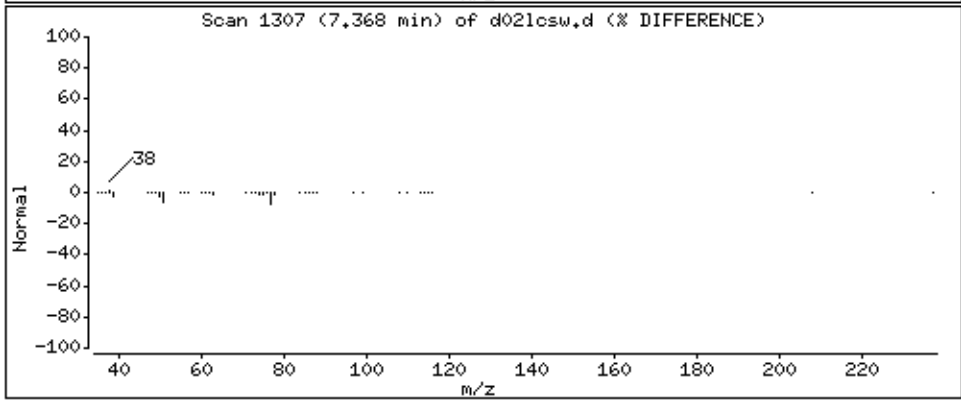
Concentration: 46.2 ppb

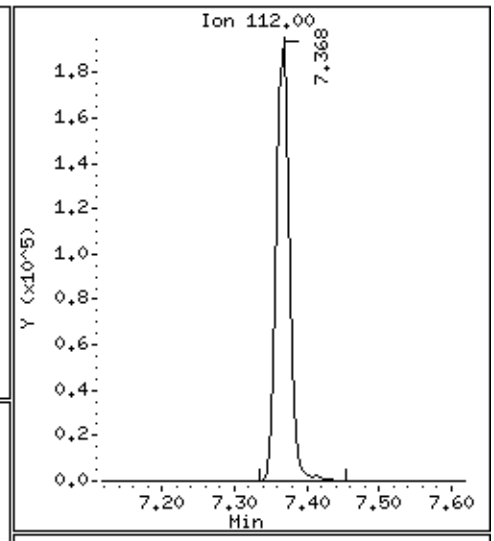
Review Code:

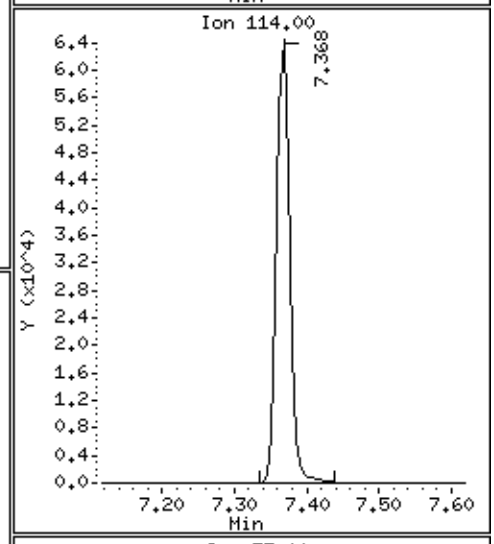


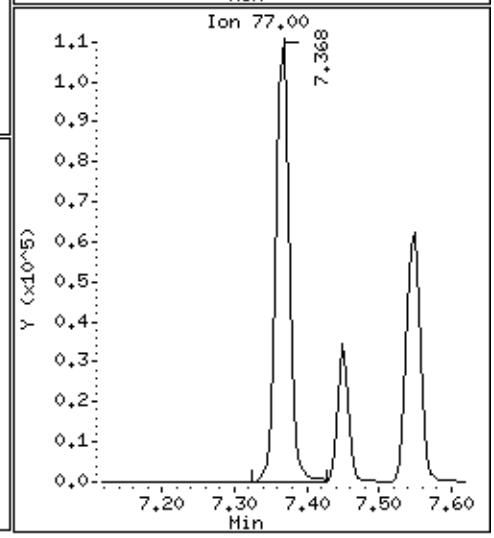












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

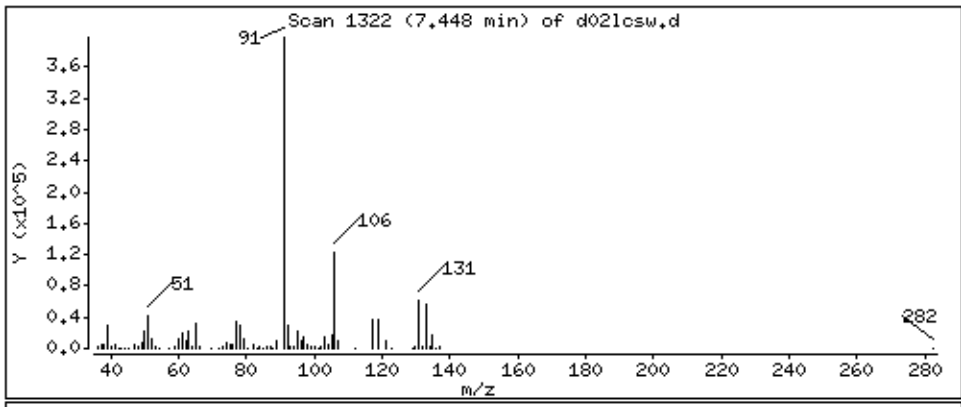
Column phase: DB-624

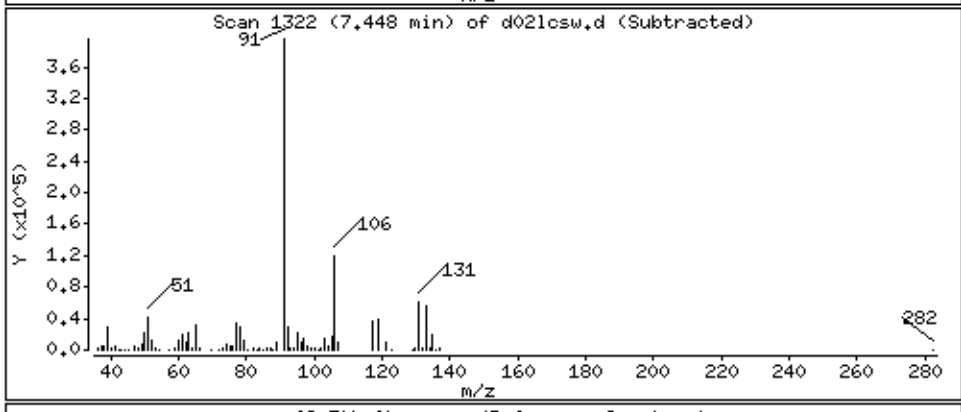
Column diameter: 0.18

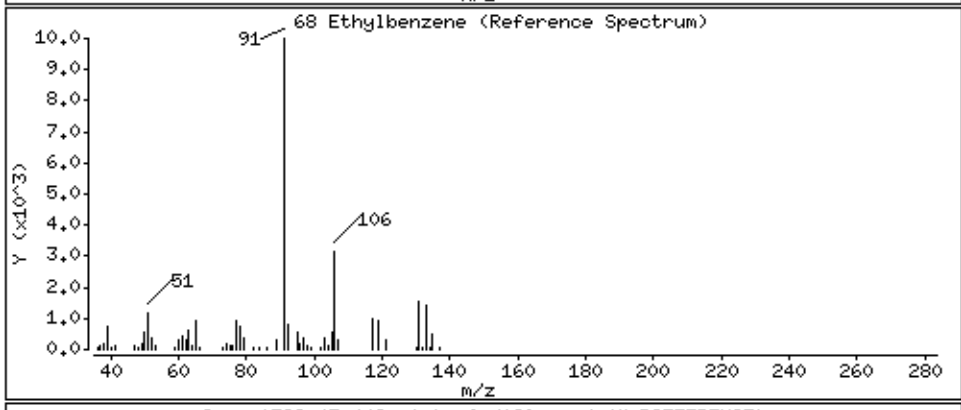
68 Ethylbenzene

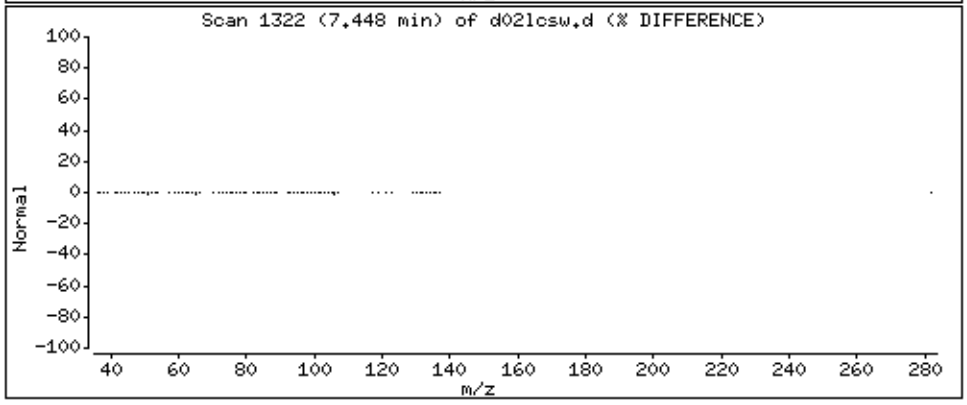
Concentration: 47.7 ppb

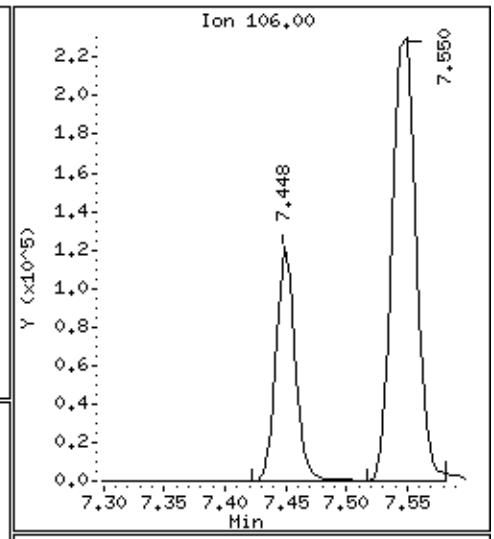
Review Code:

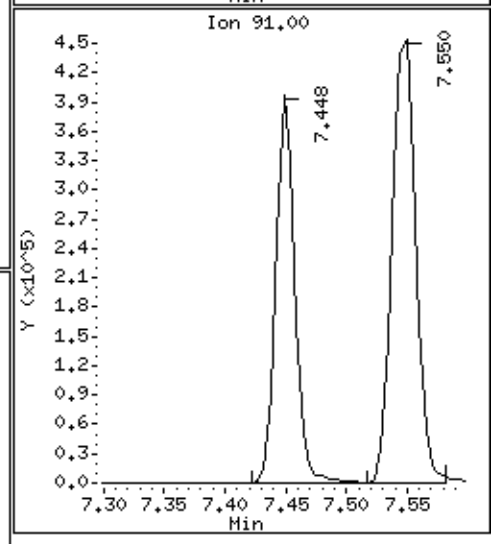












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

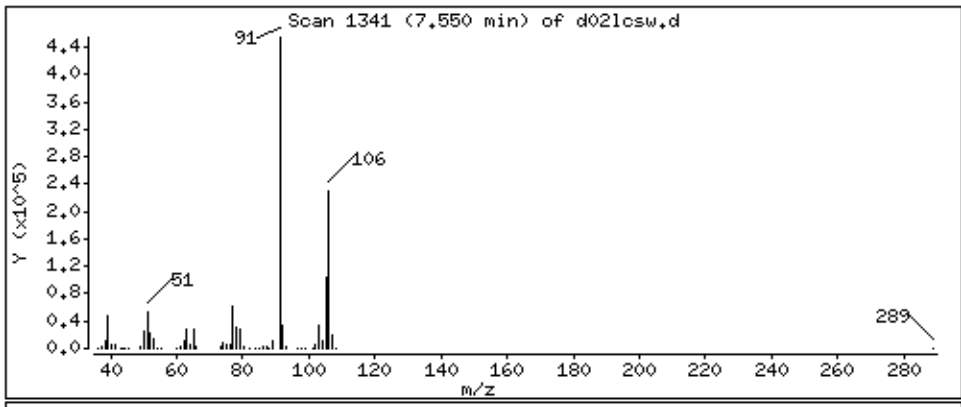
Column phase: DB-624

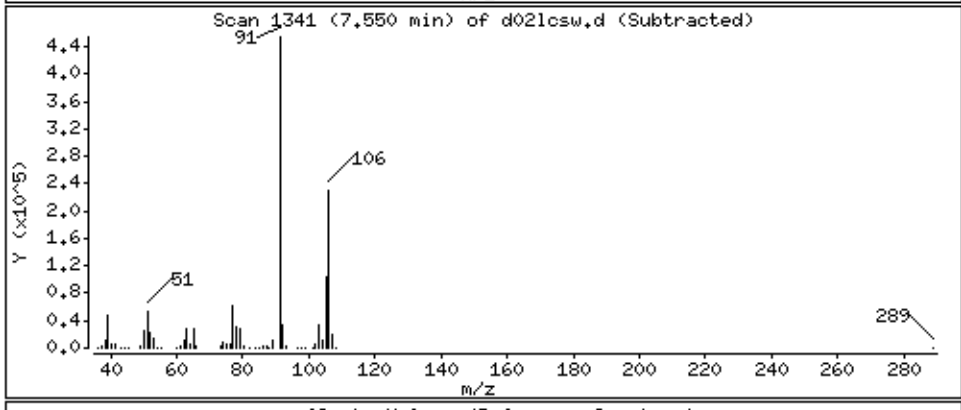
Column diameter: 0.18

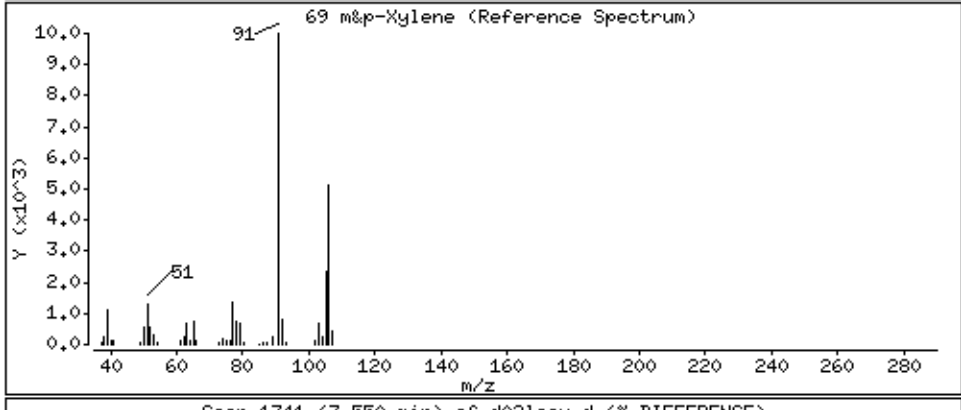
69 m&p-Xylene

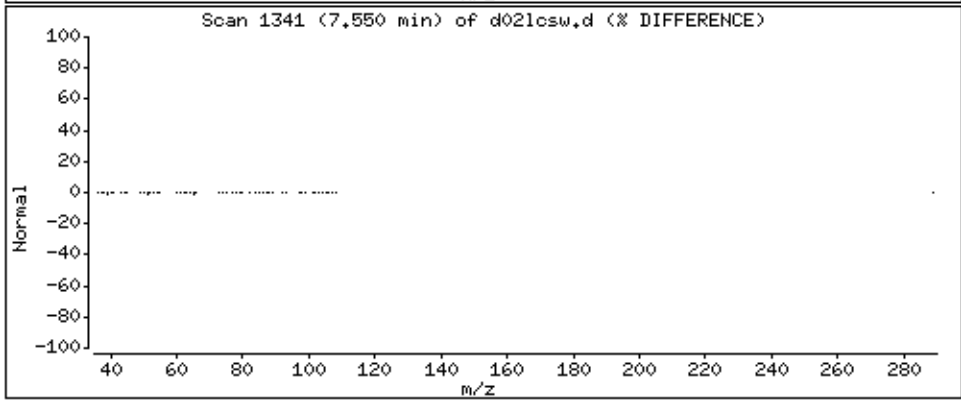
Concentration: 95.9 ppb

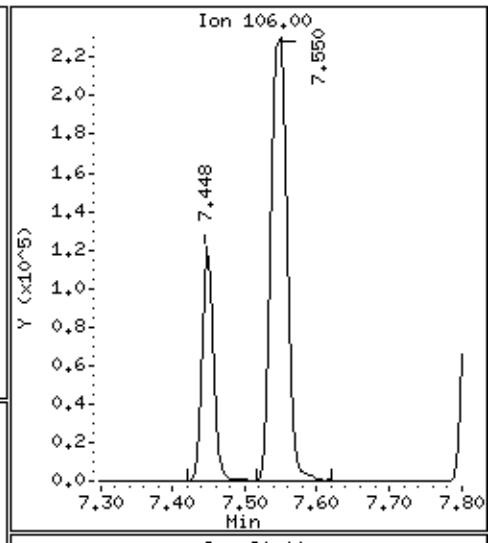
Review Code:

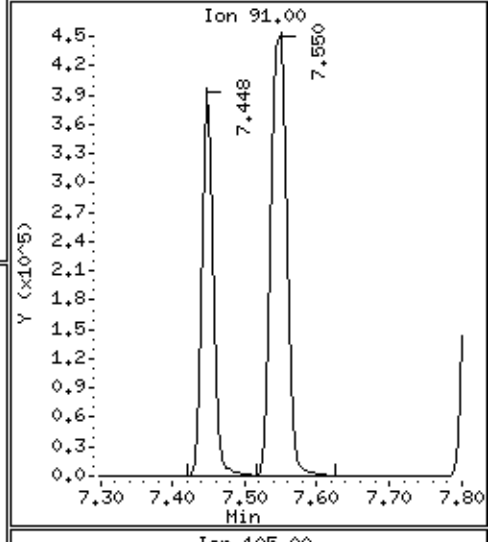


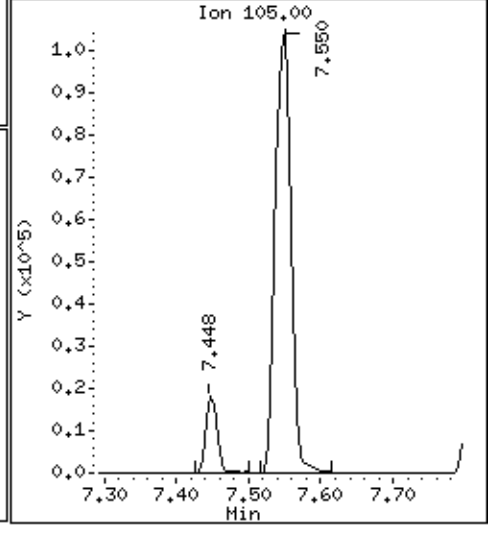












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

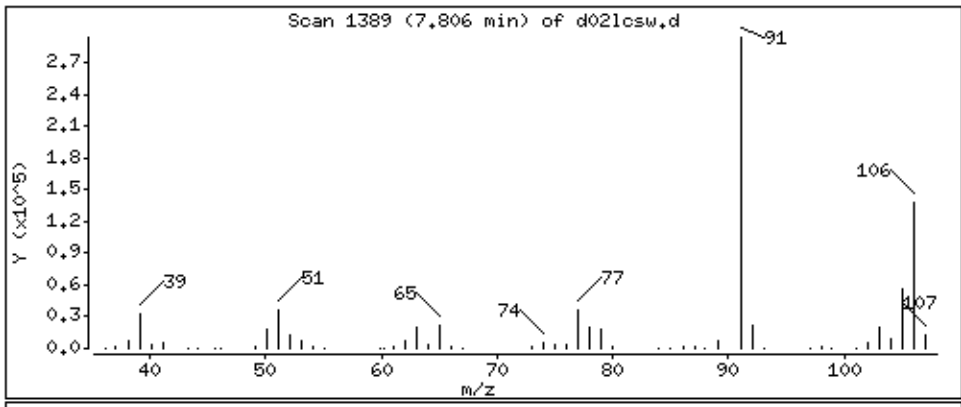
Column phase: DB-624

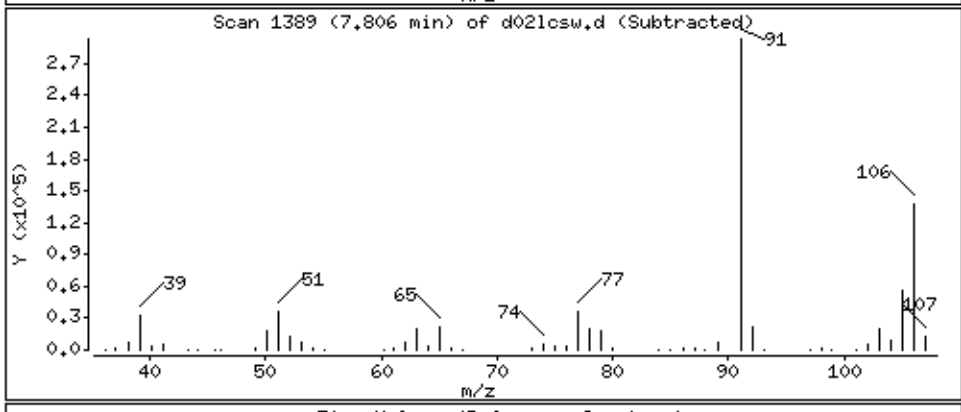
Column diameter: 0.18

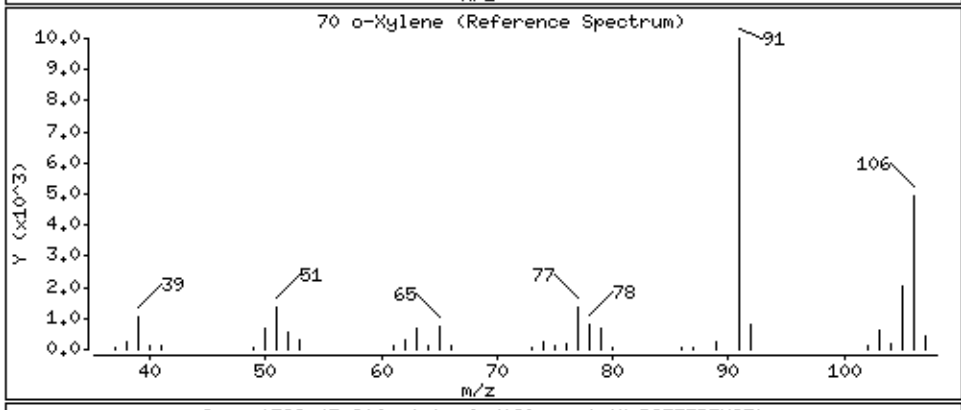
70 o-Xylene

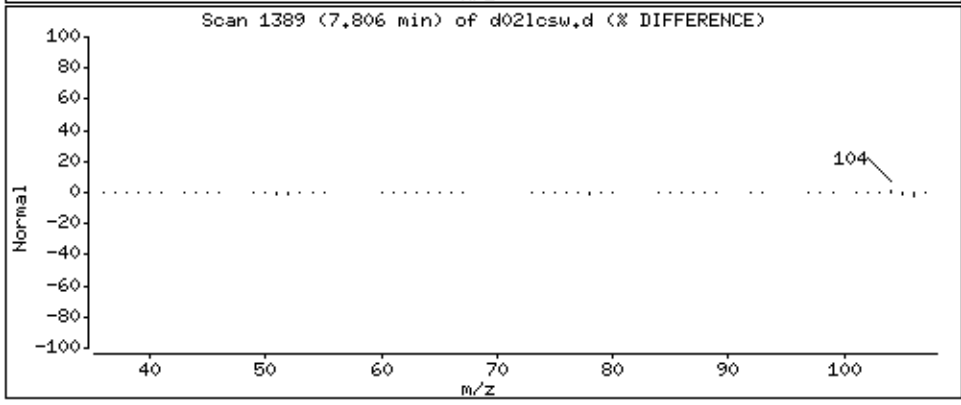
Concentration: 47.9 ppb

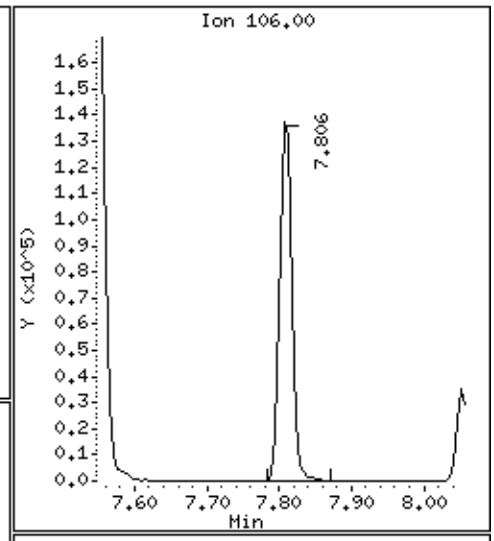
Review Code:

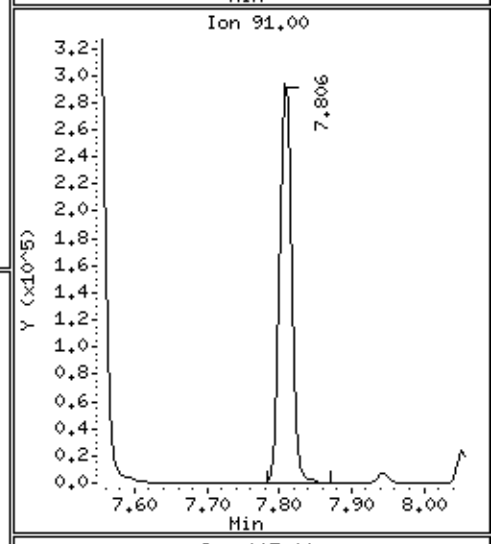


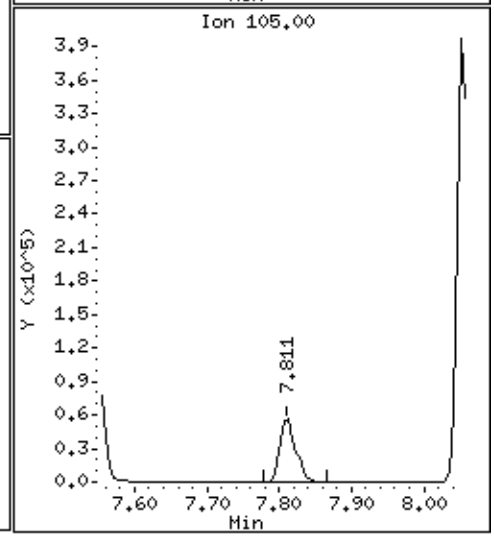












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

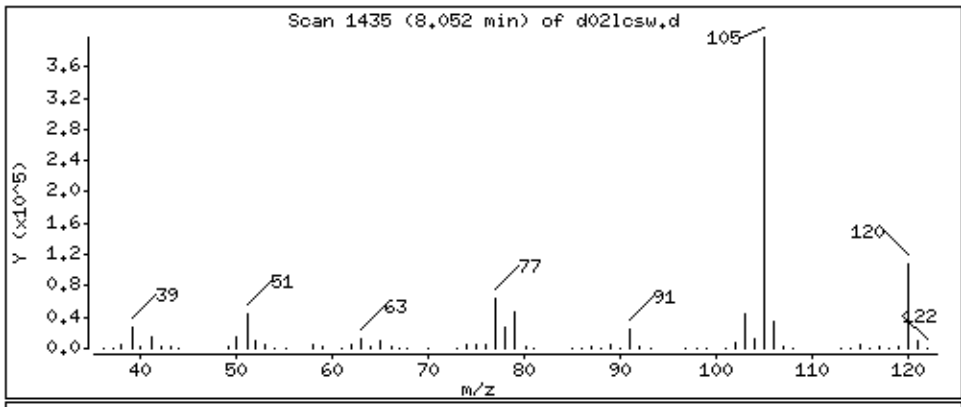
Column phase: DB-624

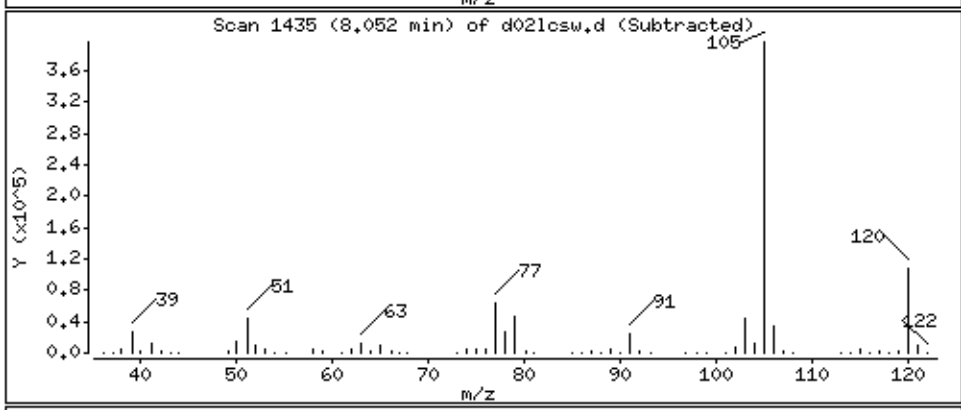
Column diameter: 0.18

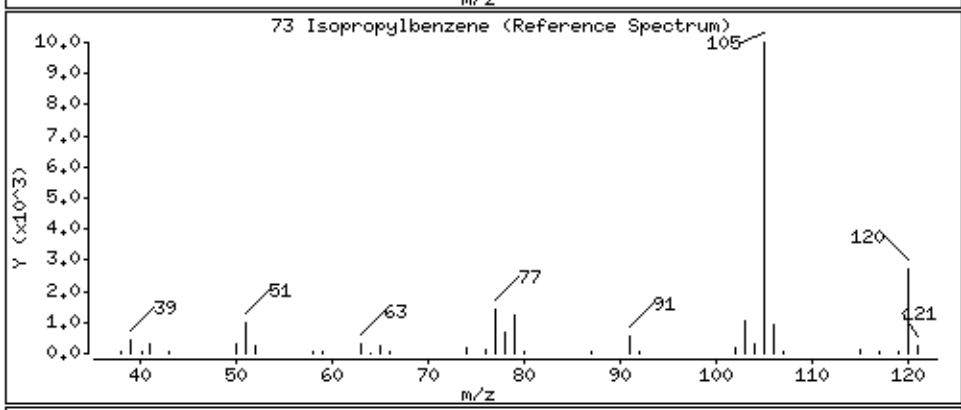
73 Isopropylbenzene

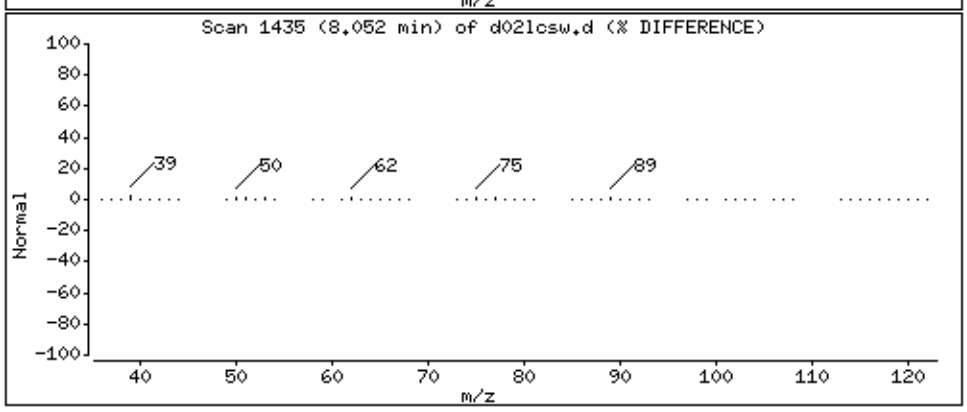
Concentration: 48.5 ppb

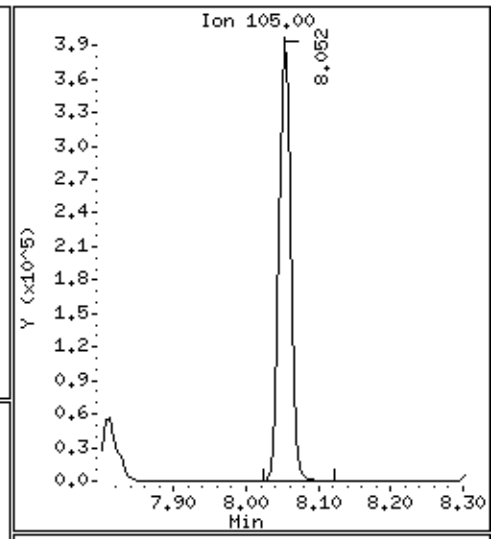
Review Code:

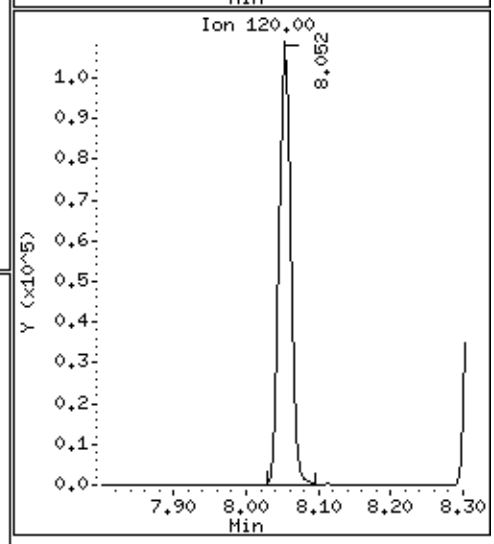












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

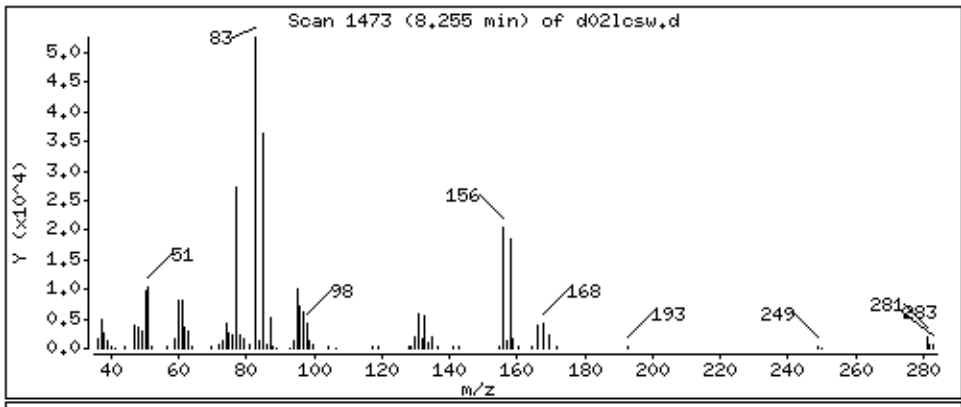
Column phase: DB-624

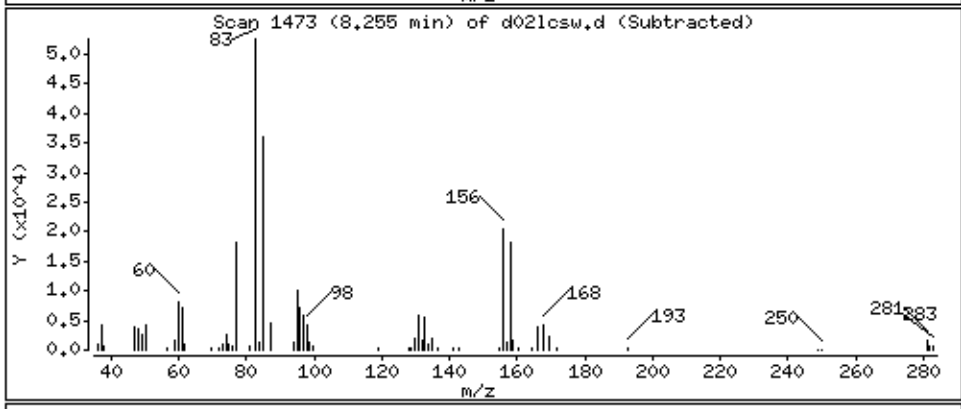
Column diameter: 0.18

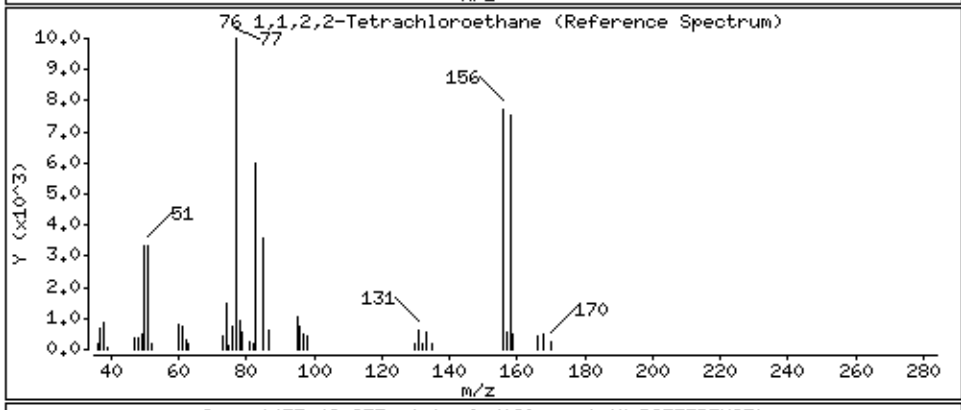
76 1,1,2,2-Tetrachloroethane

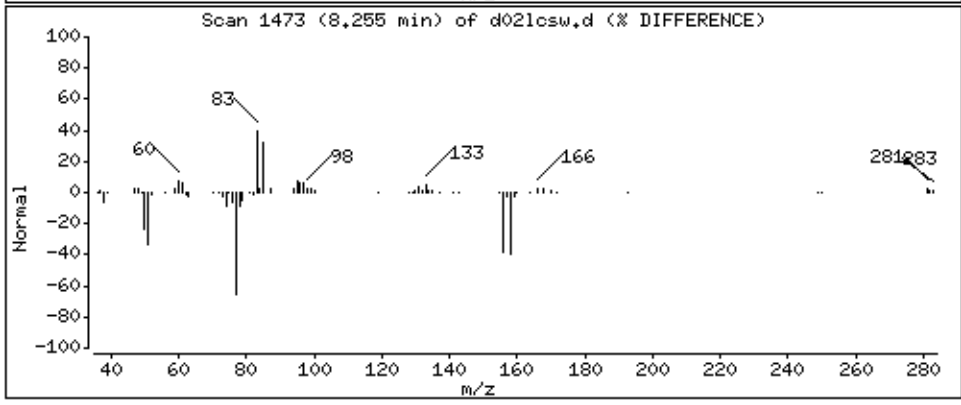
Concentration: 42.1 ppb

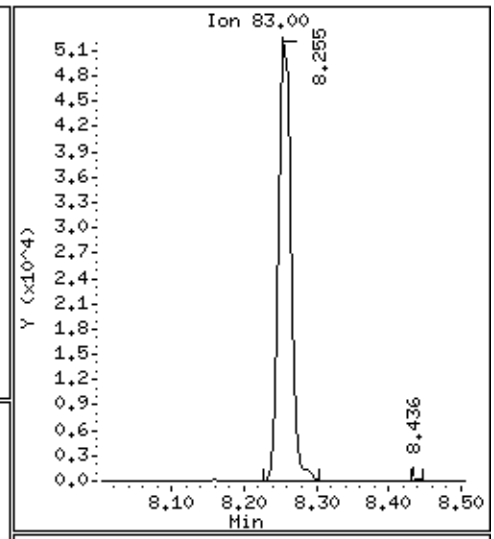
Review Code:

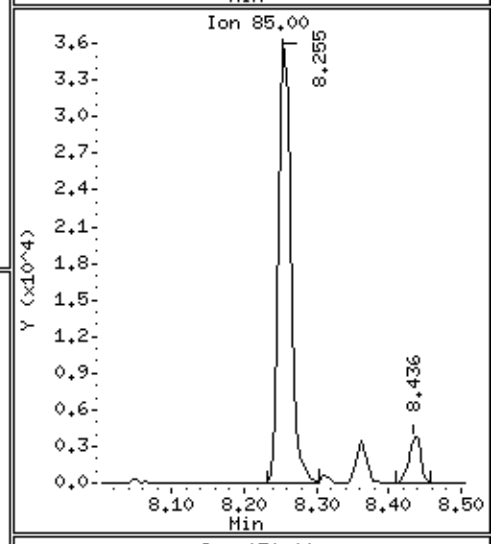


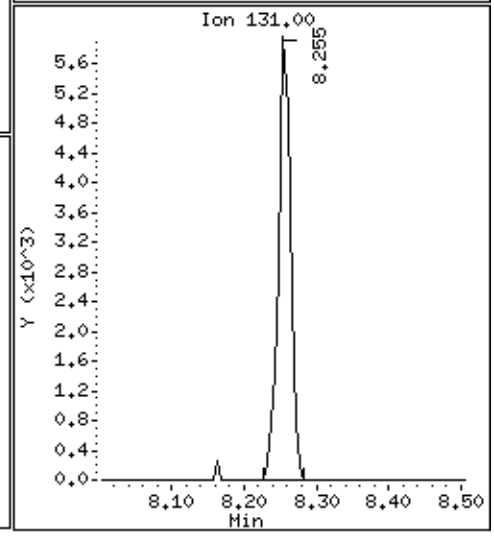












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

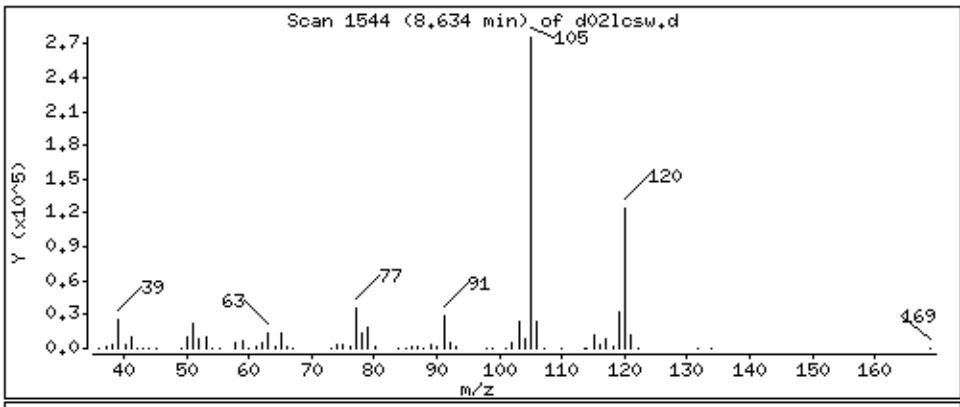
Column phase: DB-624

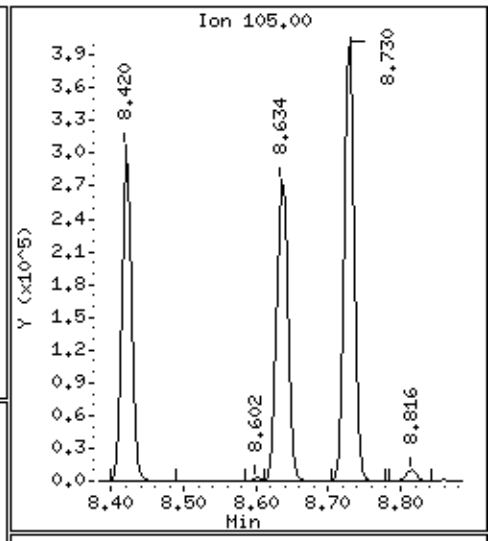
Column diameter: 0.18

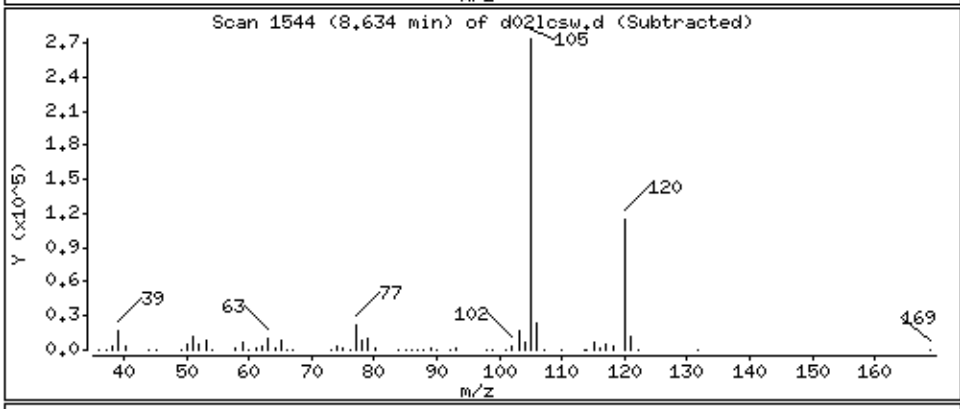
84 1,2,4-Trimethylbenzene

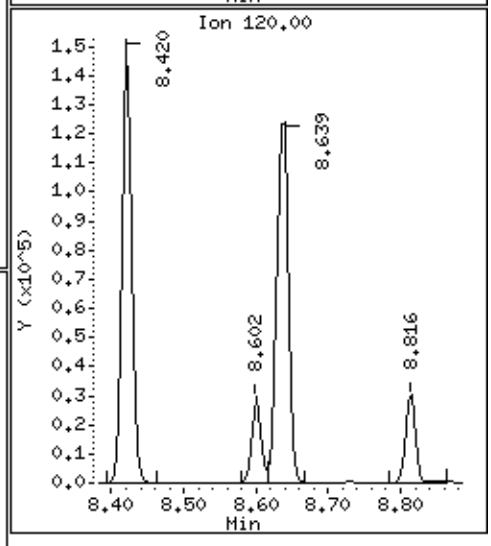
Concentration: 45.4 ppb

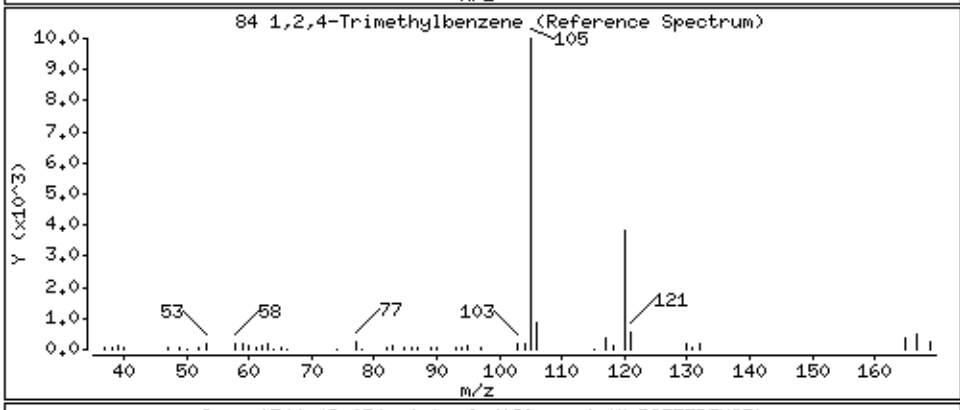
Review Code:

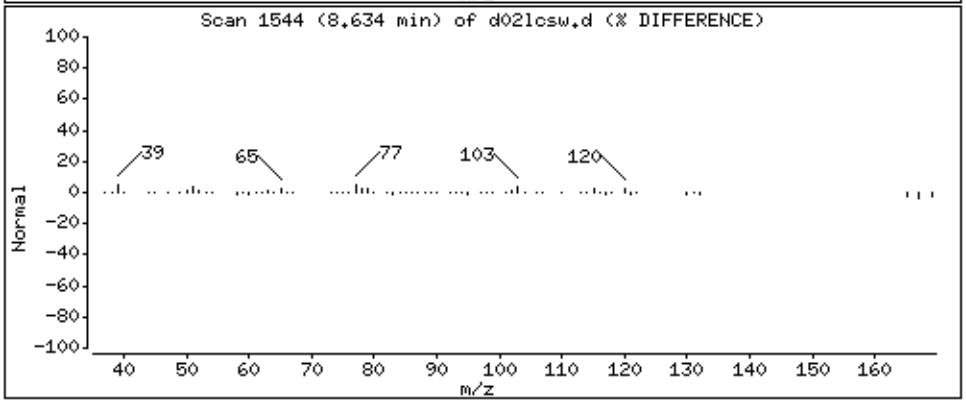












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d02lcsw.d

Date : 11-APR-2016 23:46

Client ID: MBLCS

Instrument: 50mv3b.i

Sample Info: 1516502,118316:5

Purge Volume: 5.0

Operator: jlz

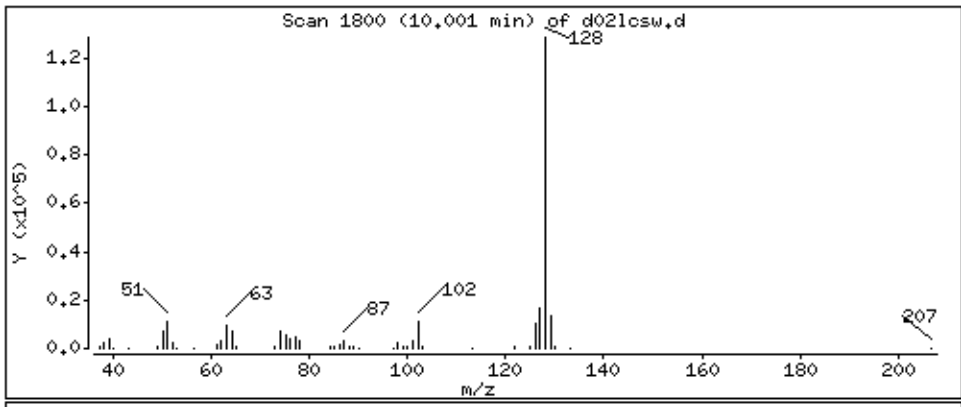
Column phase: DB-624

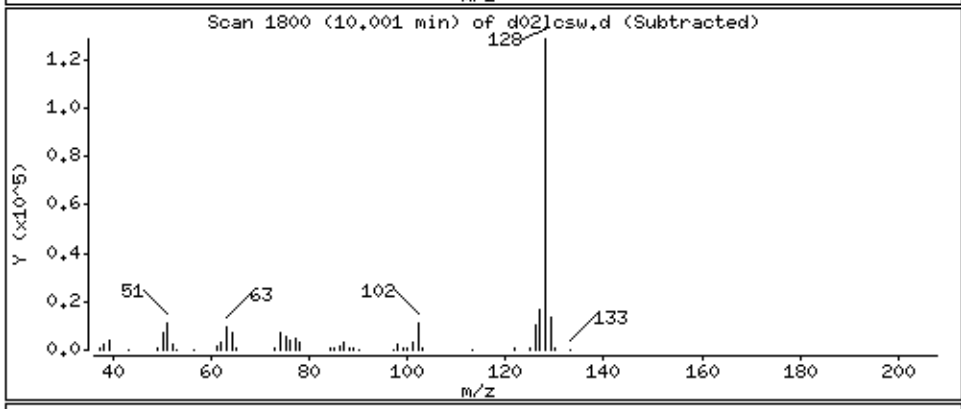
Column diameter: 0.18

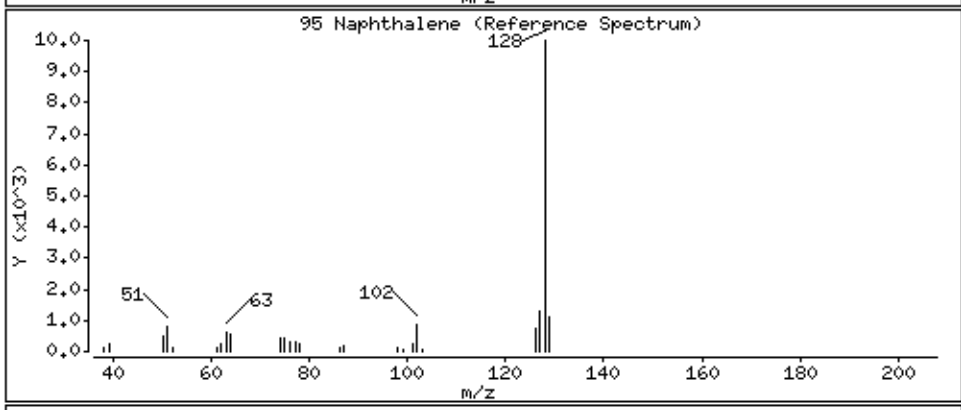
95 Naphthalene

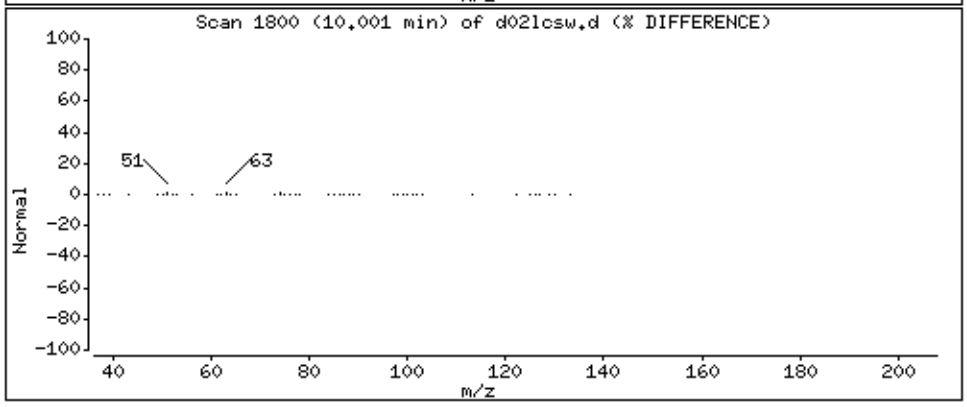
Concentration: 42.0 ppb

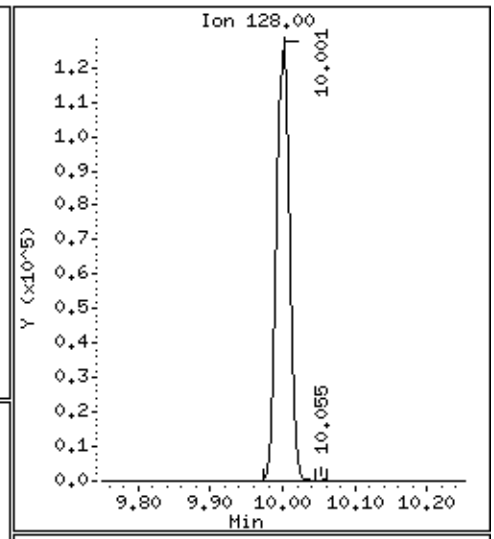
Review Code:

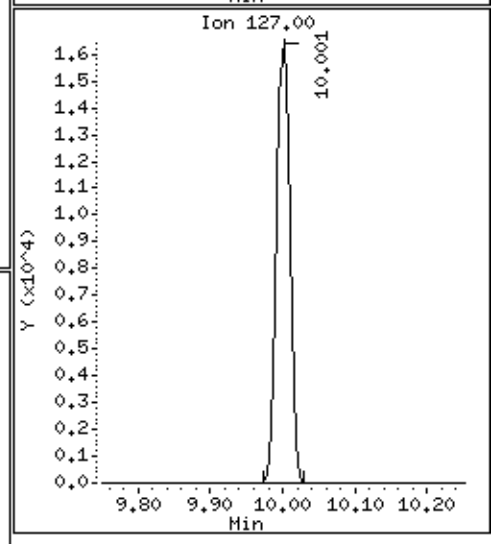












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d02lcsw.d
Injection Date: 11-APR-2016 23:46
Instrument: 50mv3b.i
Lab Sample ID: 1516502
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 09:22 Lab Sample ID: 1516503

Date Analyzed: 04/12/2016 09:22 Lab File ID: B041116.B\D20.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	51.4	
108-90-7	Chlorobenzene	49.3	
67-66-3	Chloroform	51.9	
75-35-4	1,1-Dichloroethene	52.9	
156-59-2	cis-1,2-Dichloroethene	92.8	
156-60-5	trans-1,2-Dichloroethene	57.3	
78-87-5	1,2-Dichloropropane	49.5	
100-41-4	Ethylbenzene	51.2	
98-82-8	Isopropylbenzene (Cumene)	51.4	
1634-04-4	Methyl-tert-butyl ether	48.7	
79-34-5	1,1,2,2-Tetrachloroethane	45.2	
127-18-4	Tetrachloroethene	52.2	
108-88-3	Toluene	46.9	
71-55-6	1,1,1-Trichloroethane	53.9	
79-01-6	Trichloroethene	159	
75-01-4	Vinyl chloride	52.4	
1330-20-7	Xylene (Total)	148	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d
Lab Smp Id: 1516503 Client Smp ID: MW-0705-S1(033016)P
Inj Date : 12-APR-2016 09:22
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 1516503,118316:5
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 88 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.042	1.045	(0.250)	179877	52.3786	52.4	
	11 1,1-Dichloroethene	96	1.603	1.601	(0.384)	113553	52.8580	52.8	
	21 Methyl-tert-butyl ether	73	2.030	2.033	(0.487)	188300	48.6994	48.7	
	22 1,2-Dichloroethene (trans)	96	2.041	2.044	(0.489)	109689	57.2513	57.2	
	28 1,2-Dichloroethene (cis)	96	2.820	2.824	(0.676)	176222	92.7726	92.8(R)	
	34 Chloroform	83	3.162	3.165	(0.758)	160278	51.8595	51.8	
	36 1,1,1-Trichloroethane	97	3.344	3.342	(0.802)	145244	53.8547	53.8	
$	35 Dibromofluoromethane (S)	113	3.333	3.342	(0.799)	82382	51.1087	51.1	
	40 Benzene	78	3.771	3.774	(0.904)	376006	51.4355	51.4	
*	44 Fluorobenzene (IS)	96	4.172	4.175	(1.000)	352032	50.0000		
	45 Trichloroethene	95	4.620	4.624	(1.108)	279453	158.882	159(R)	
	47 1,2-Dichloropropane	63	4.925	4.928	(1.181)	83760	49.5158	49.5	
$	55 Toluene-d8 (S)	98	6.020	6.023	(0.820)	289367	50.3481	50.3	
	56 Toluene	91	6.094	6.092	(0.830)	350725	46.8536	46.8	
	60 Tetrachloroethene	166	6.618	6.616	(0.901)	79909	52.1765	52.2	
*	65 Chlorobenzene-D5 (IS)	117	7.344	7.348	(1.000)	177860	50.0000		
	66 Chlorobenzene	112	7.366	7.369	(1.003)	180542	49.2599	49.2	
	68 Ethylbenzene	106	7.451	7.449	(1.015)	109283	51.1962	51.2	
	69 m&p-Xylene	106	7.547	7.550	(1.028)	253917	98.2474	98.2	
	70 o-Xylene	106	7.809	7.807	(1.063)	116122	49.5976	49.6	
	73 Isopropylbenzene	105	8.055	8.053	(1.097)	321477	51.3856	51.4	
$	74 4-Bromofluorobenzene (S)	95	8.161	8.165	(1.111)	70089	44.8561	44.8	
	76 1,1,2,2-Tetrachloroethane	83	8.252	8.256	(0.934)	46966	45.2134	45.2	

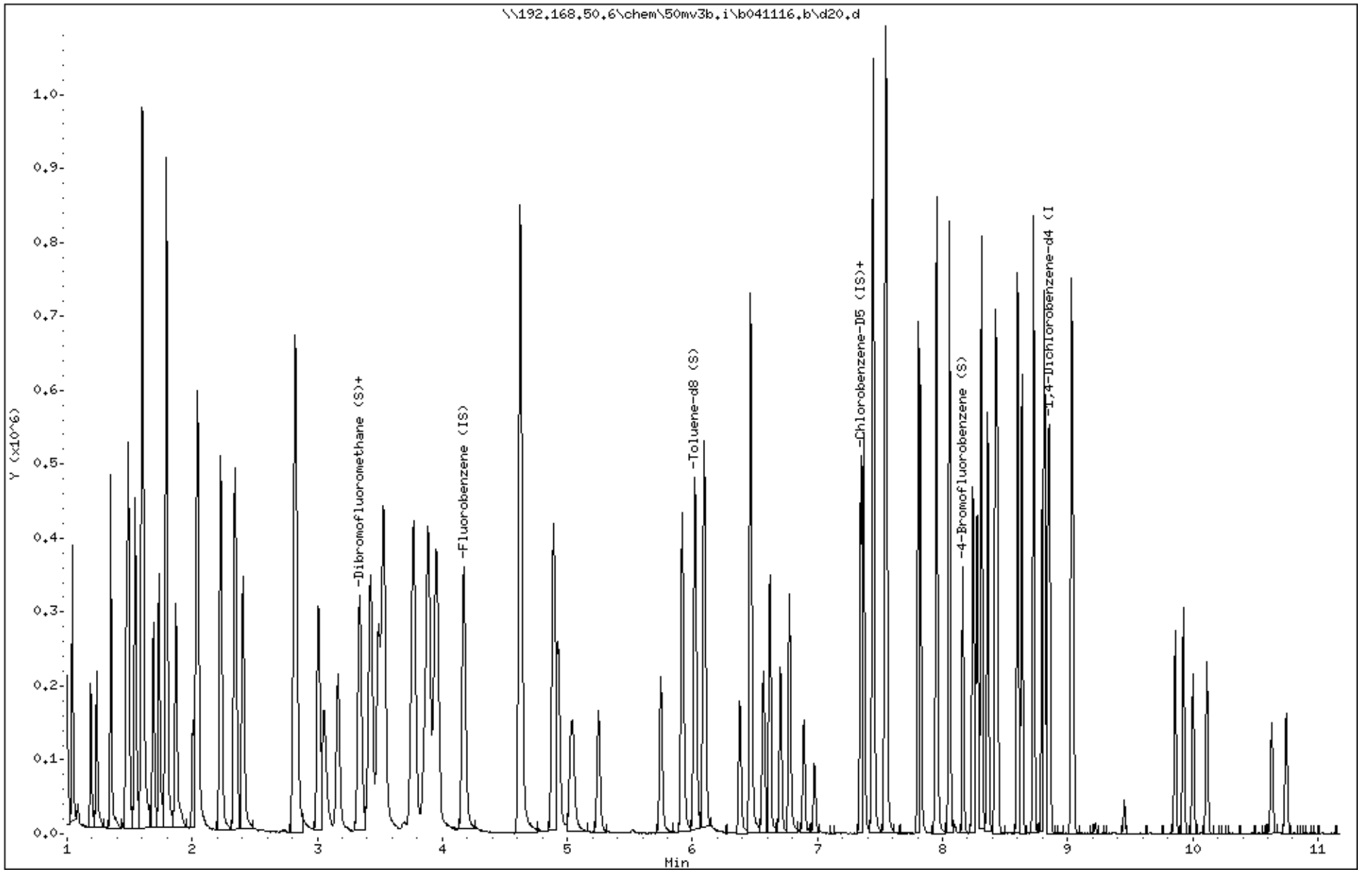
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
84 1,2,4-Trimethylbenzene	105	8.637	8.635	(0.977)	202035	42.8897	42.9	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.843	(1.000)	69797	50.0000		
95 Naphthalene	128	9.999	10.002	(1.131)	114950	42.9502	43.0	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d
Date : 12-APR-2016 09:22
Client ID: MW-0705-S1(033016)P
Sample Info: 1516503,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

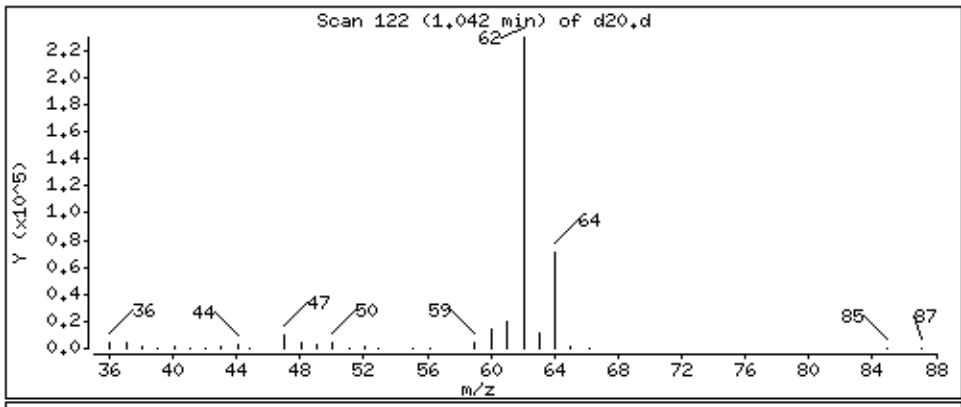
Column phase: DB-624

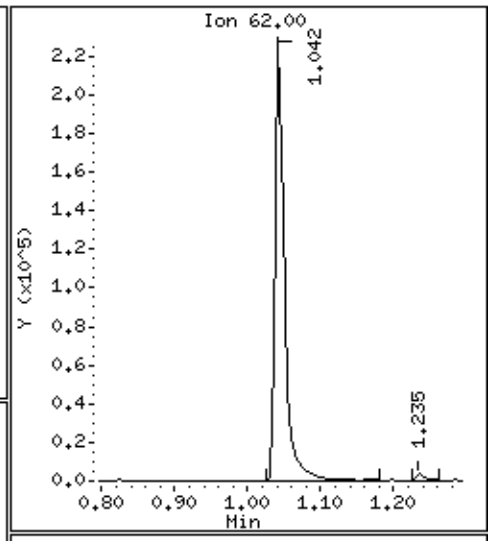
Column diameter: 0.18

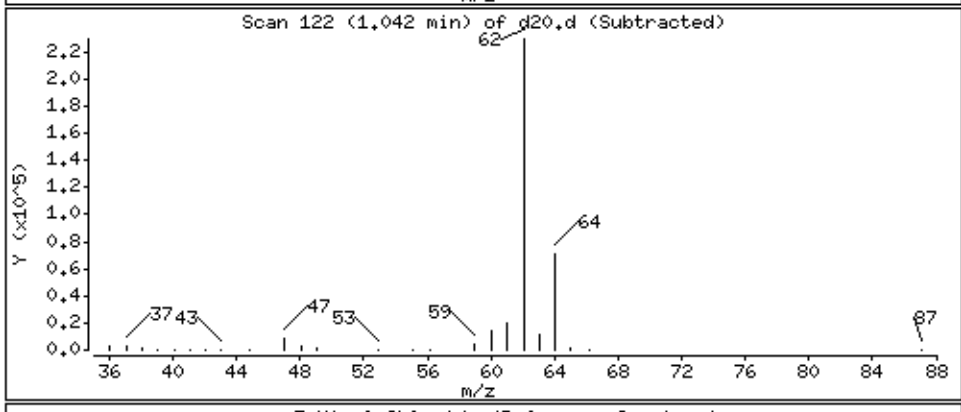
3 Vinyl Chloride

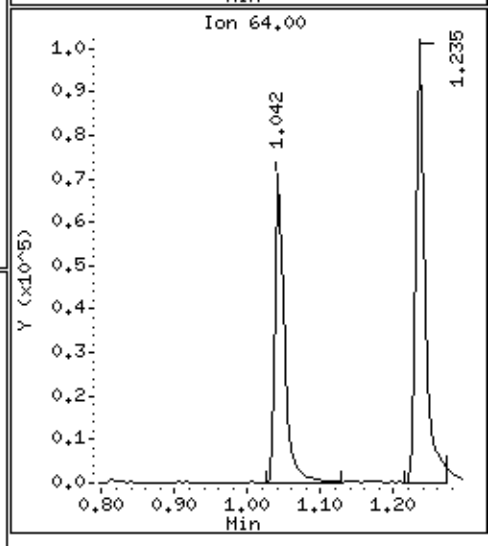
Concentration: 52.4 ppb

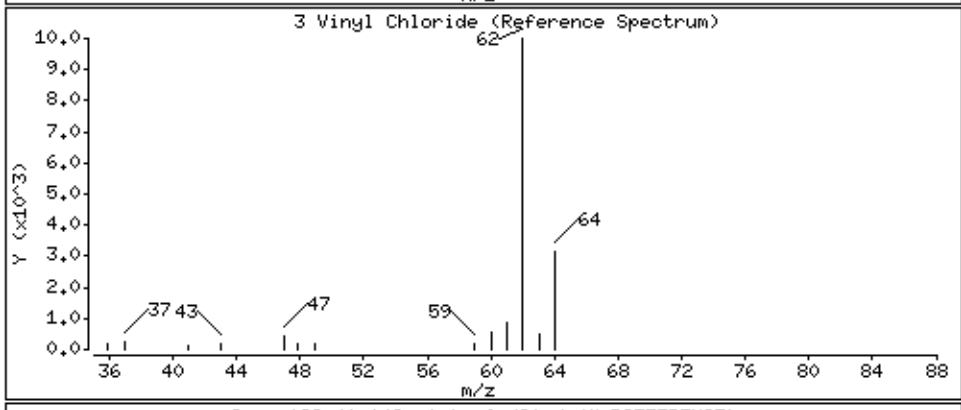
Review Code:

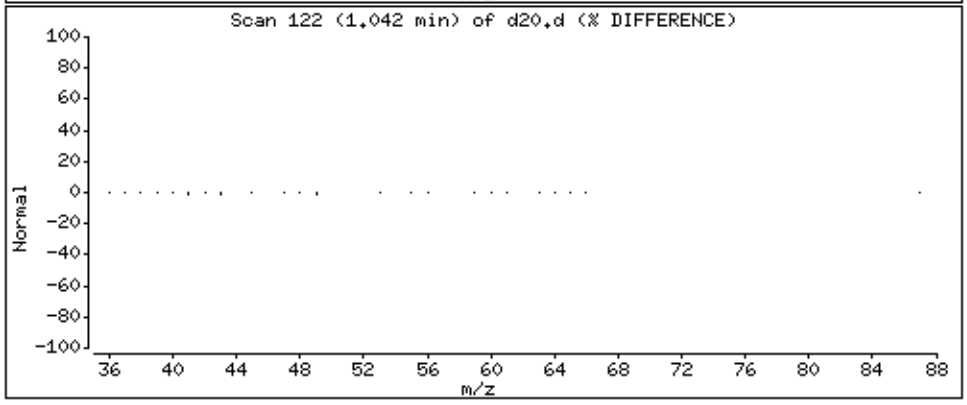












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

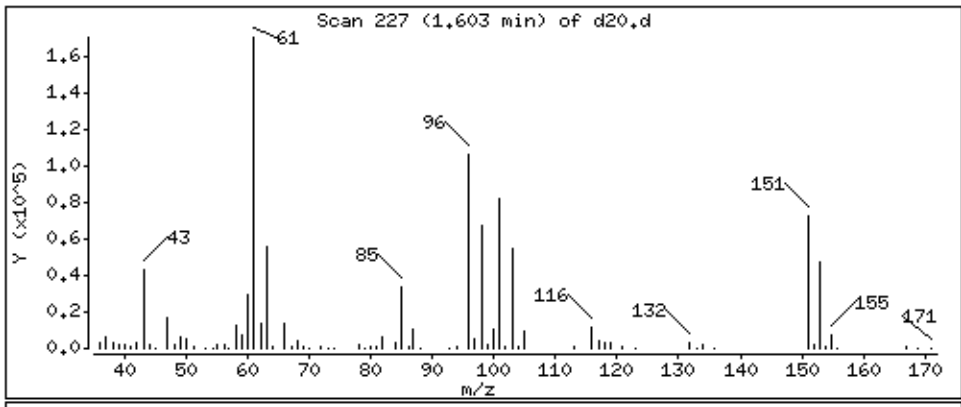
Column phase: DB-624

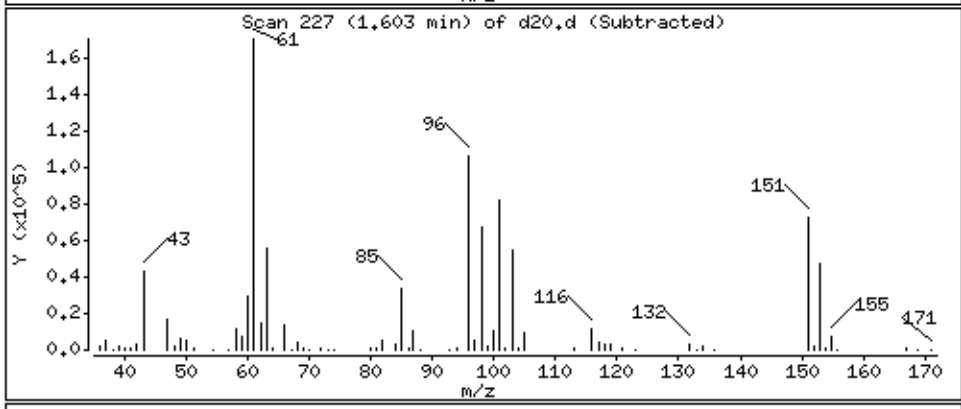
Column diameter: 0.18

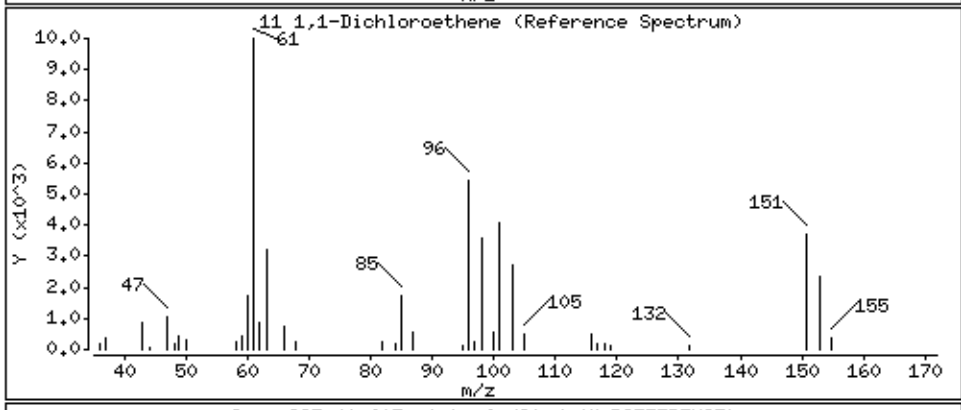
11 1,1-Dichloroethene

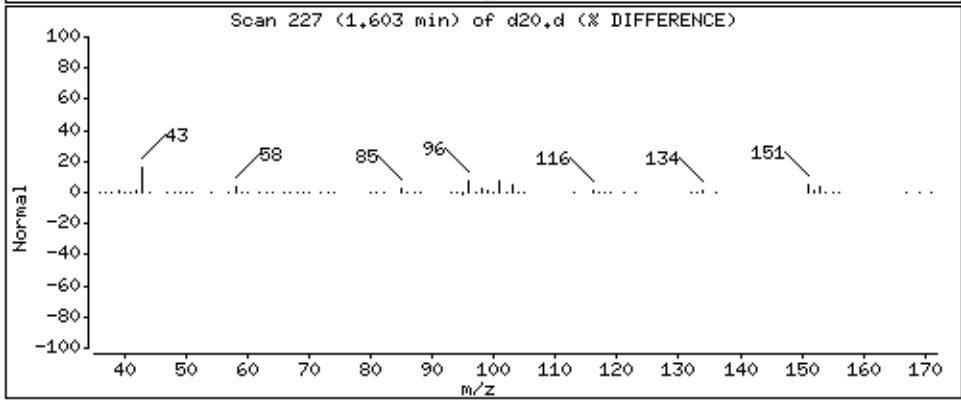
Concentration: 52.8 ppb

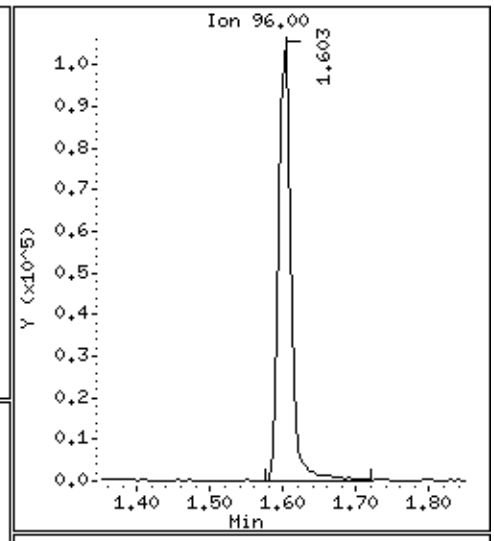
Review Code:

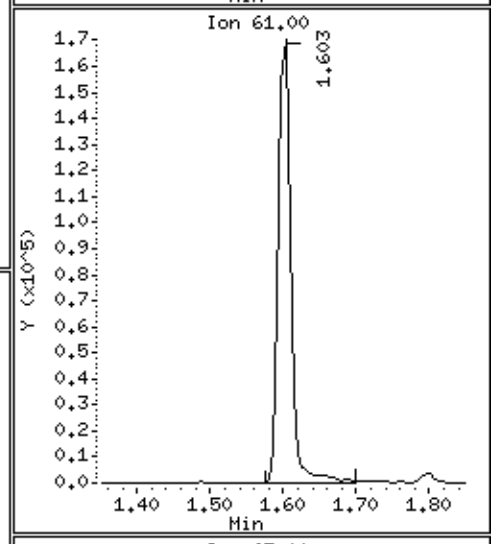


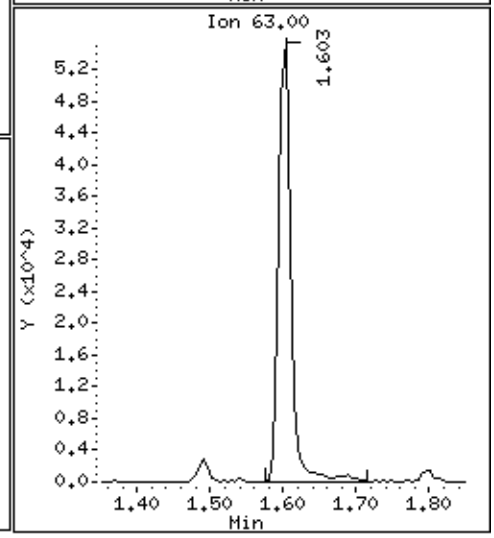












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

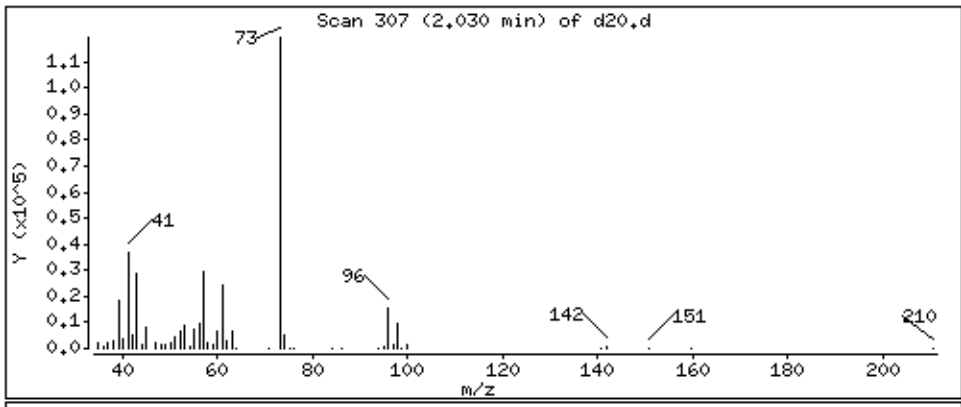
Column phase: DB-624

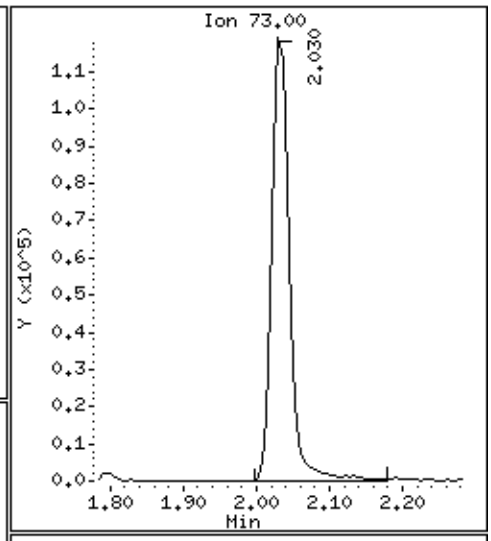
Column diameter: 0.18

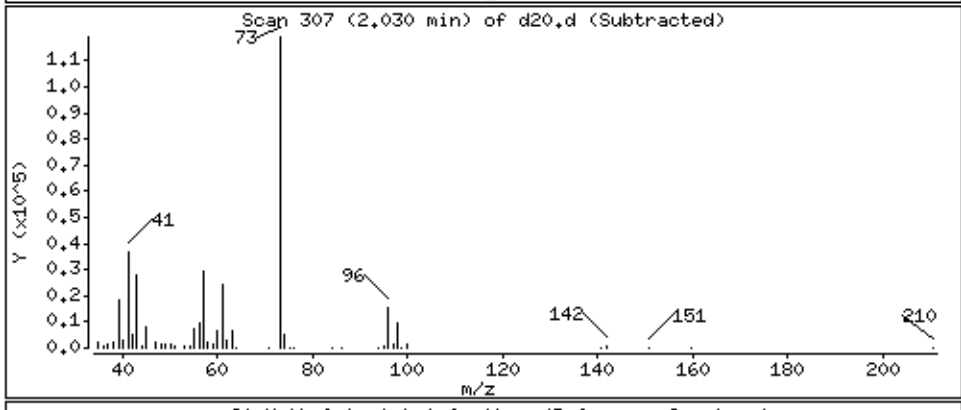
21 Methyl-tert-butyl ether

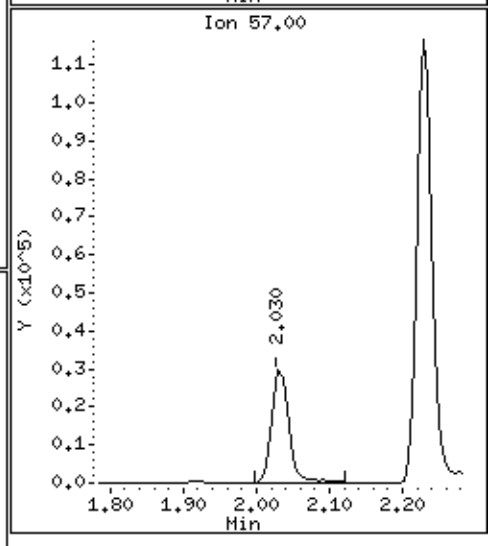
Concentration: 48.7 ppb

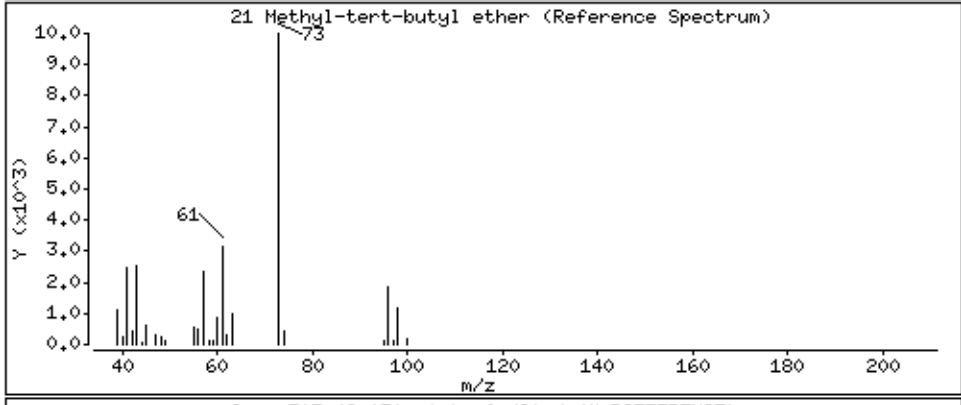
Review Code:

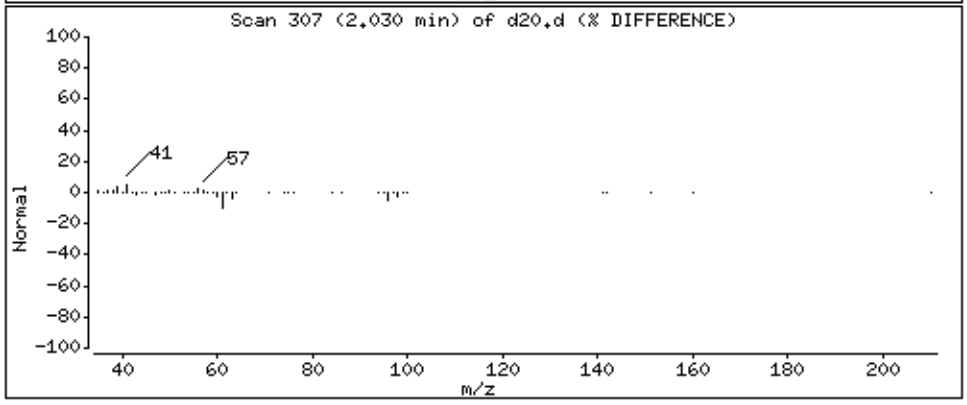












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

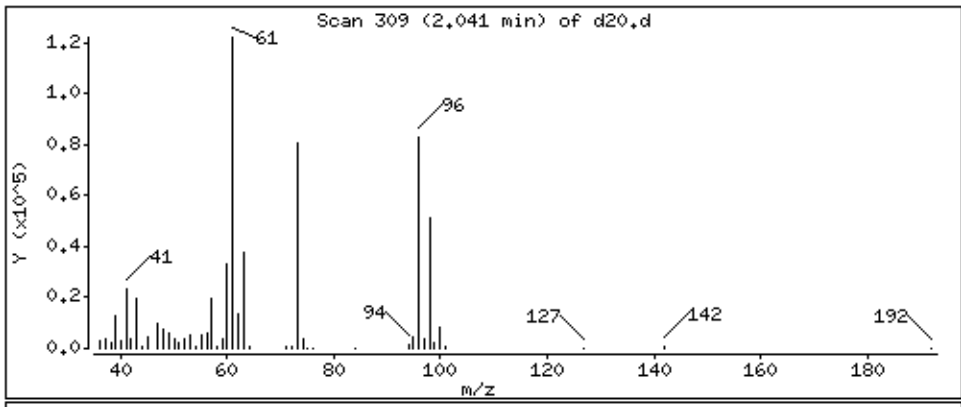
Column phase: DB-624

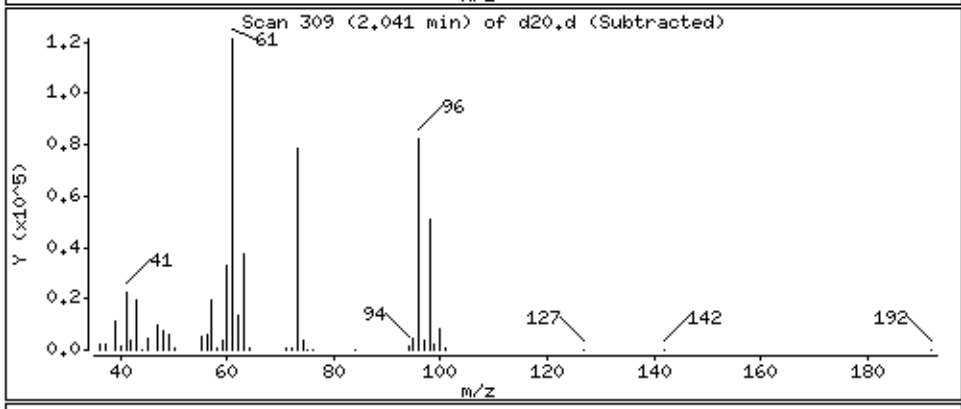
Column diameter: 0.18

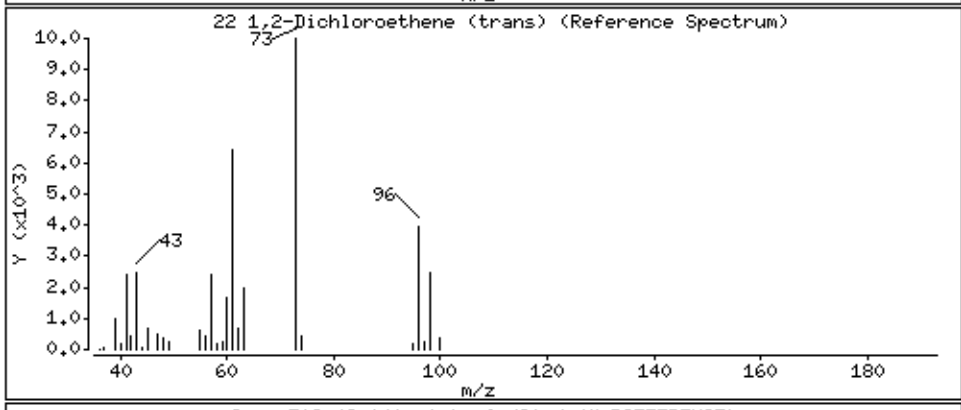
22 1,2-Dichloroethene (trans)

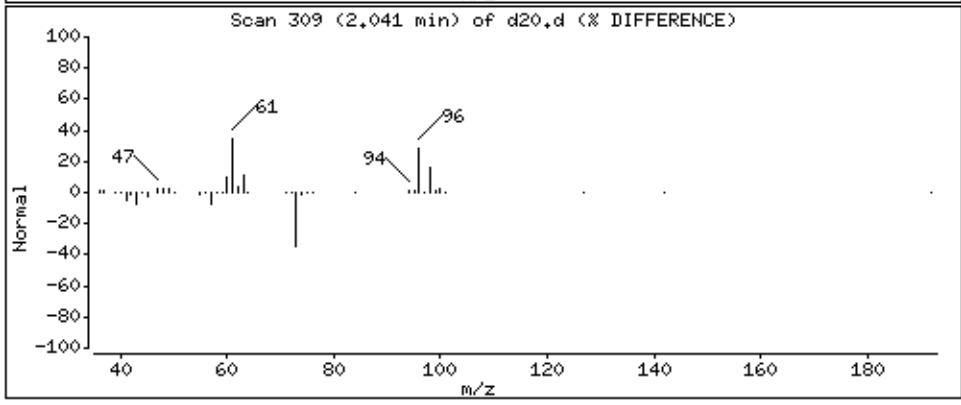
Concentration: 57.2 ppb

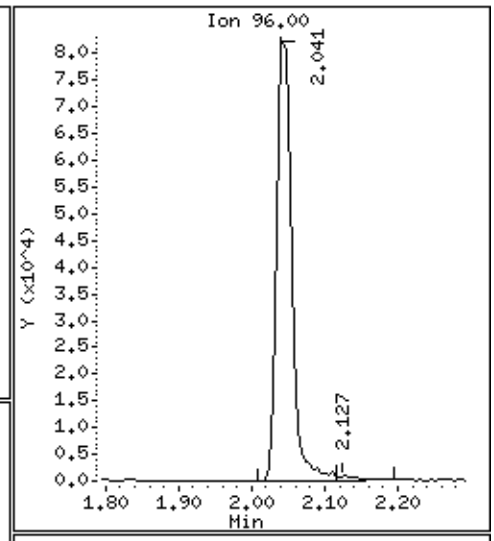
Review Code:

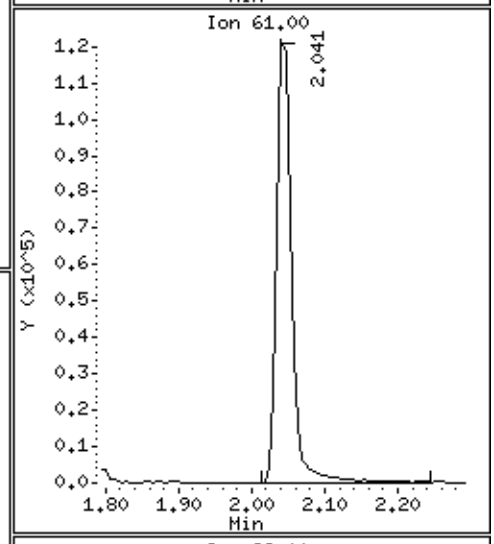


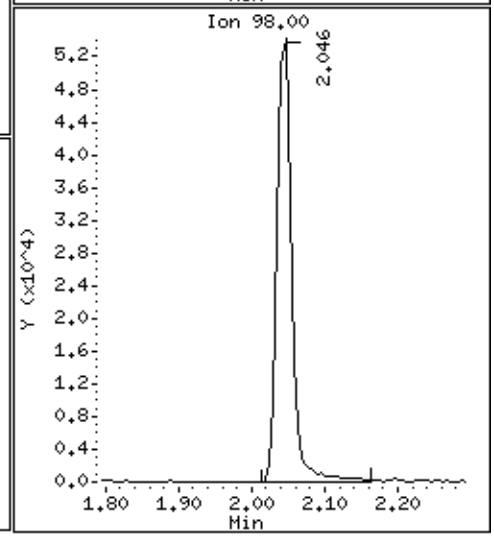












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

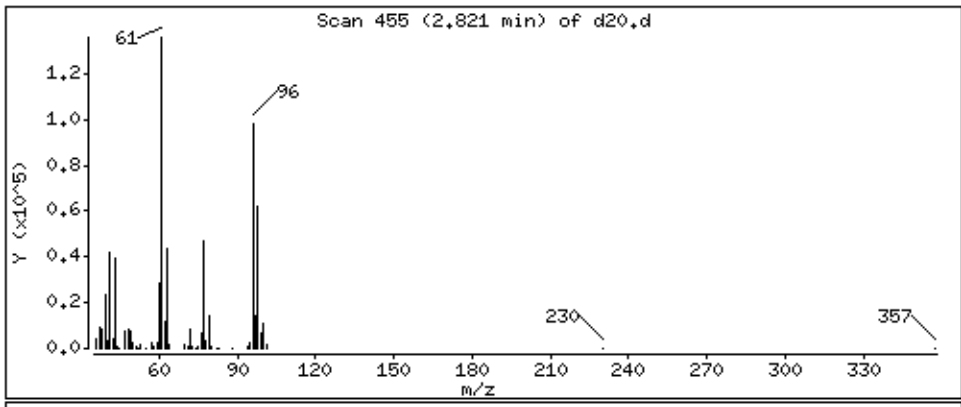
Column phase: DB-624

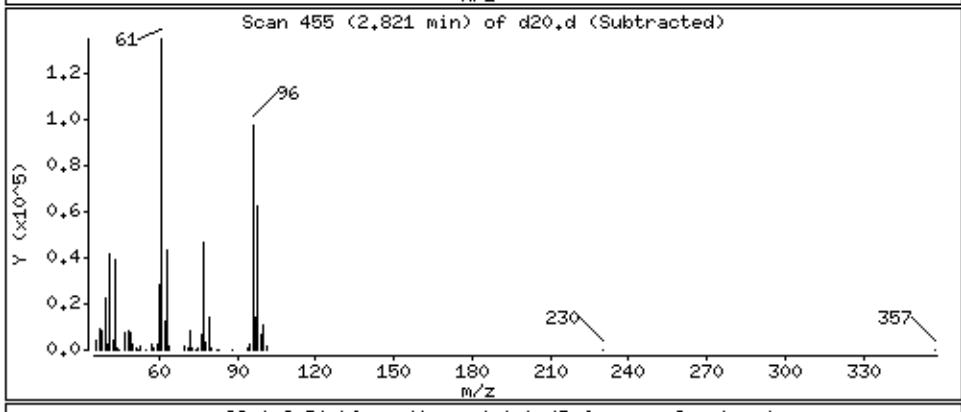
Column diameter: 0.18

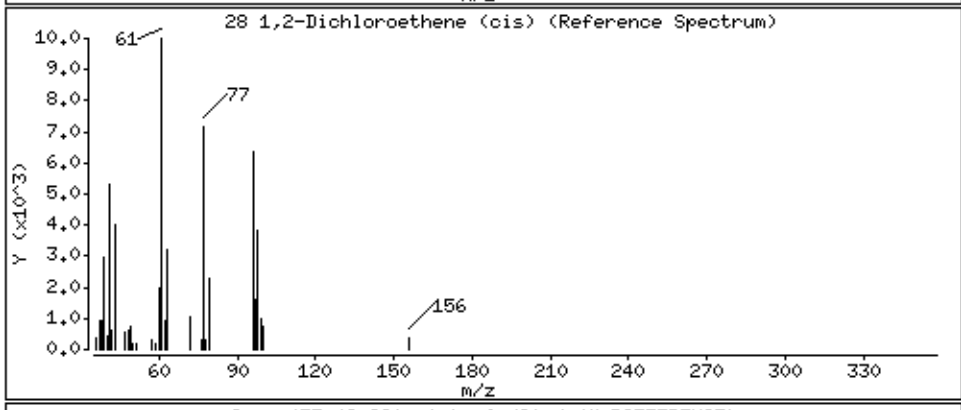
28 1,2-Dichloroethene (cis)

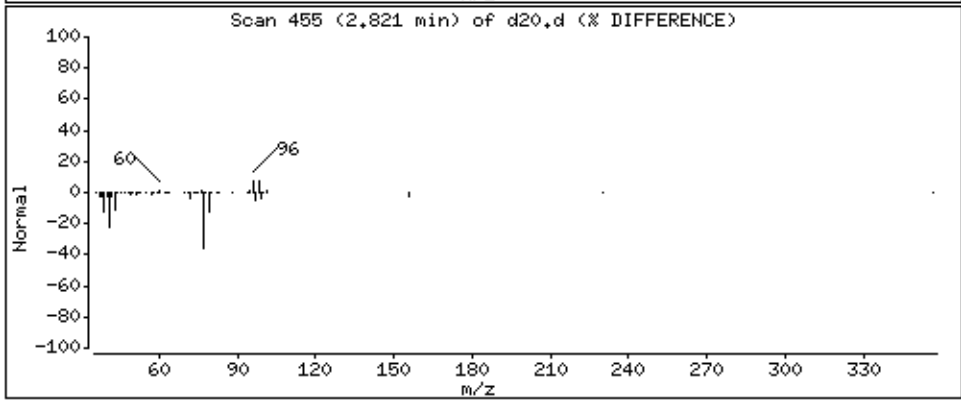
Concentration: 92.8 ppb

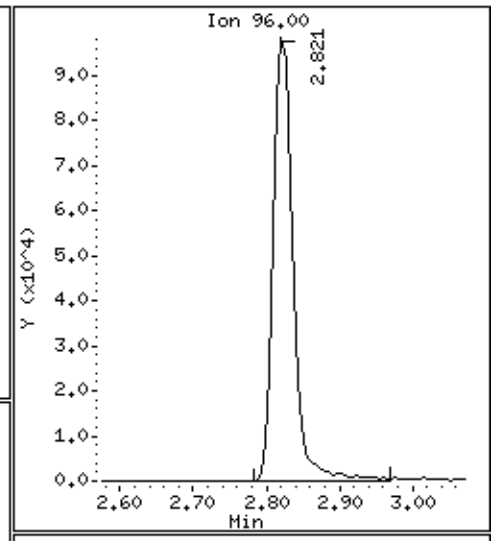
Review Code:

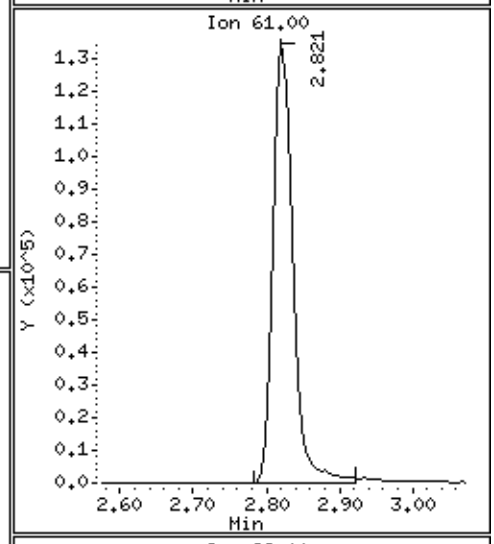


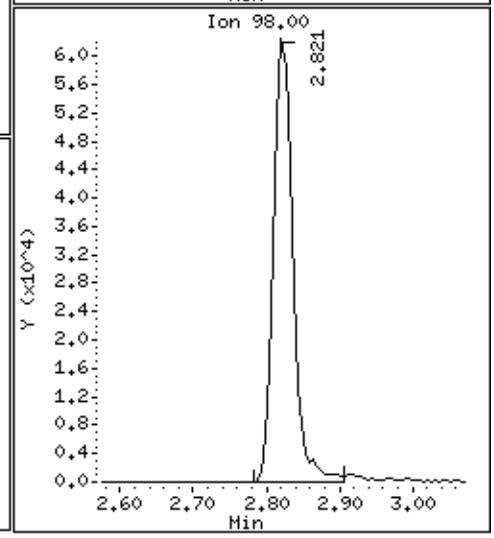












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

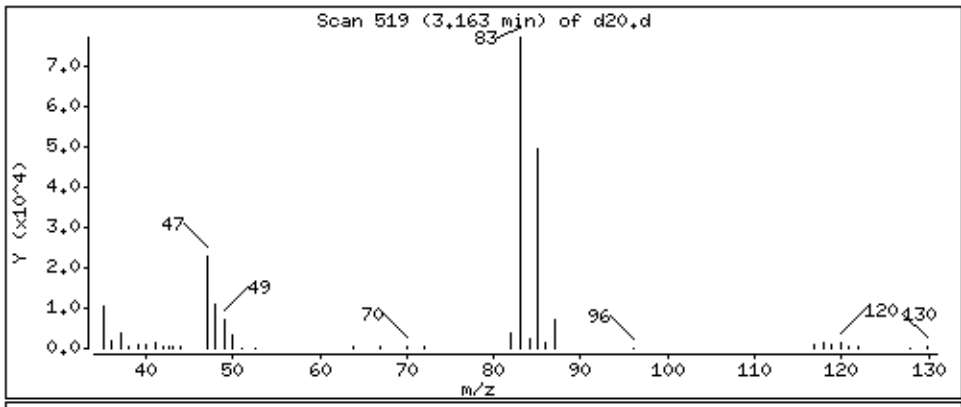
Column phase: DB-624

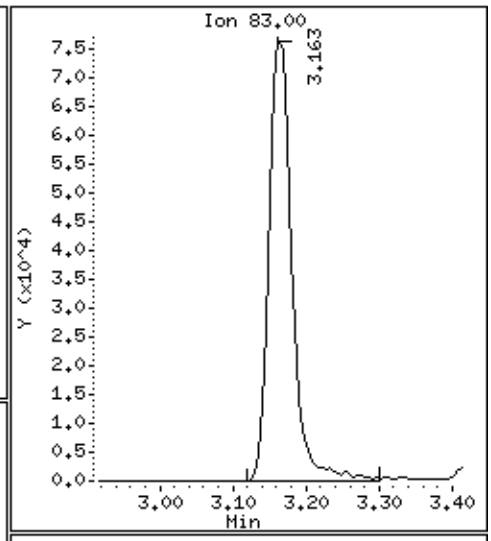
Column diameter: 0.18

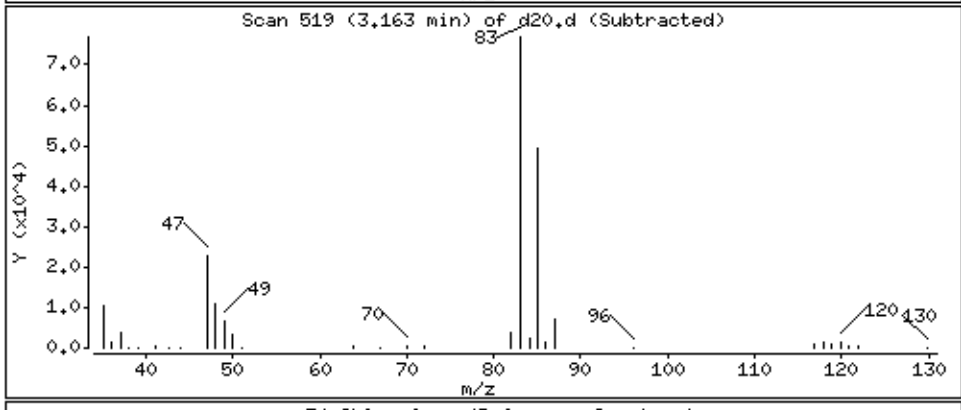
34 Chloroform

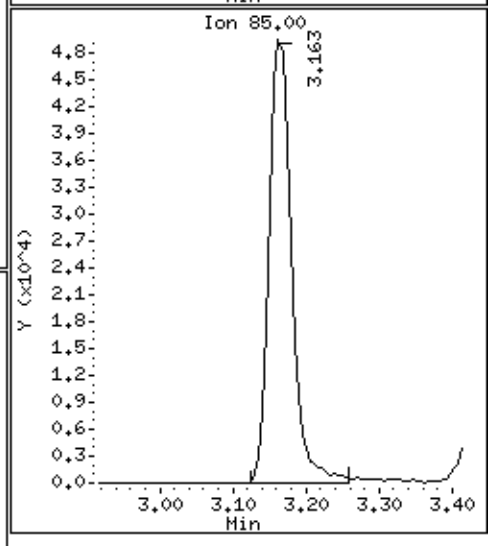
Concentration: 51.8 ppb

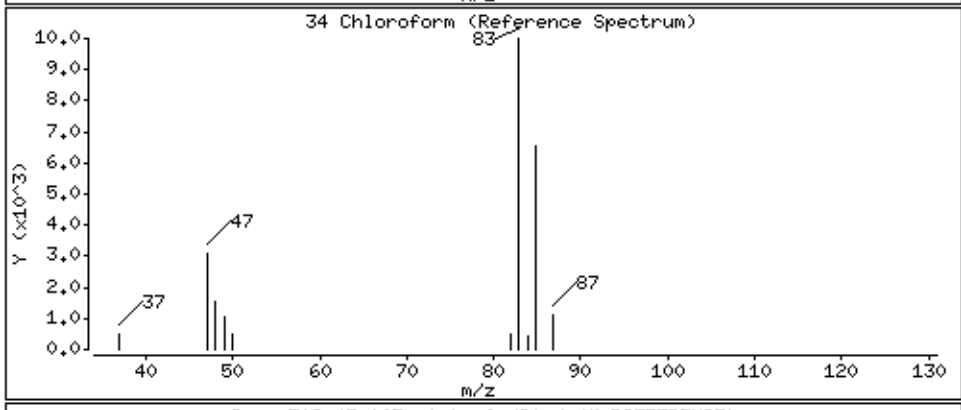
Review Code:

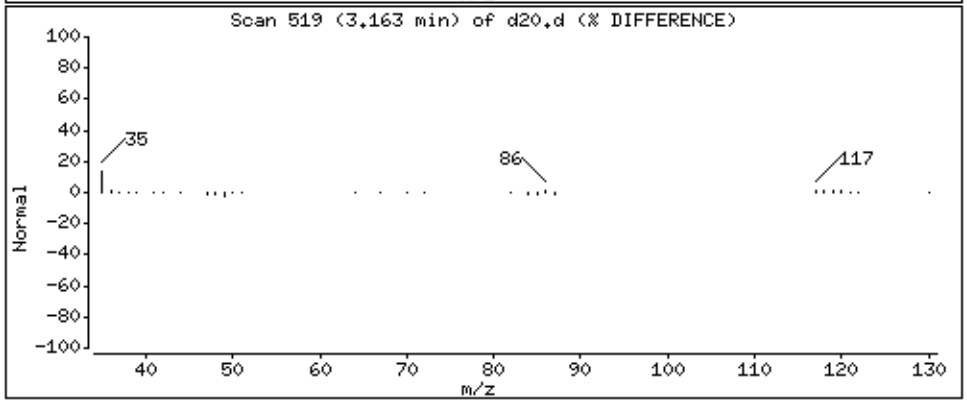












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

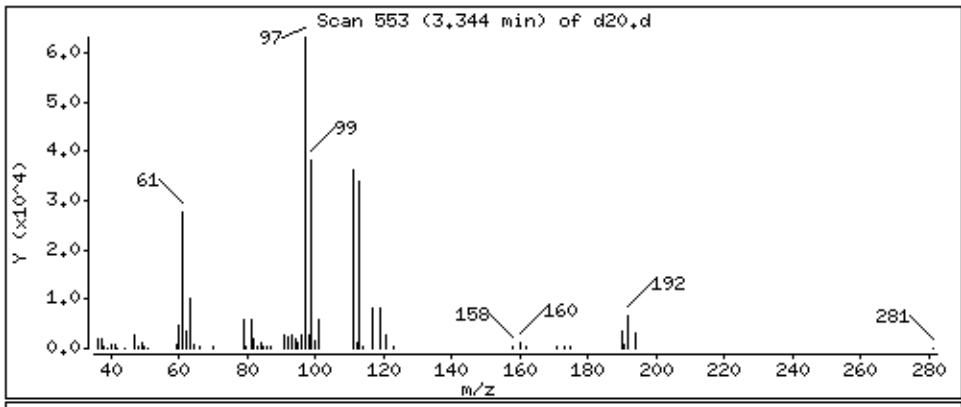
Column phase: DB-624

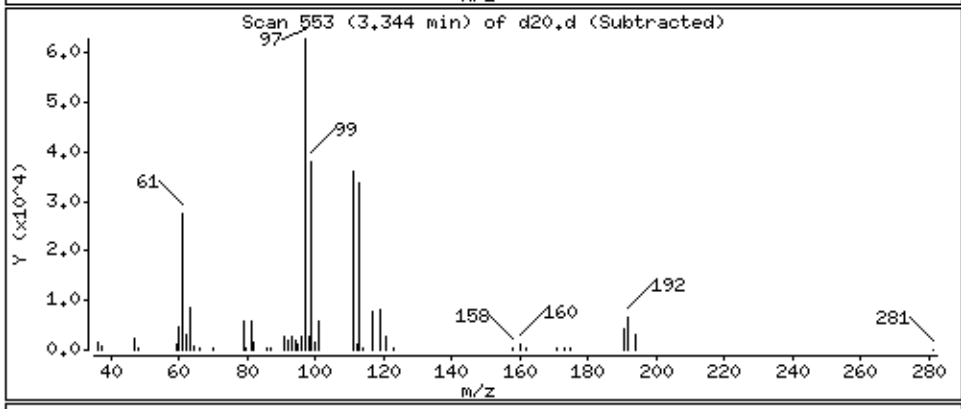
Column diameter: 0.18

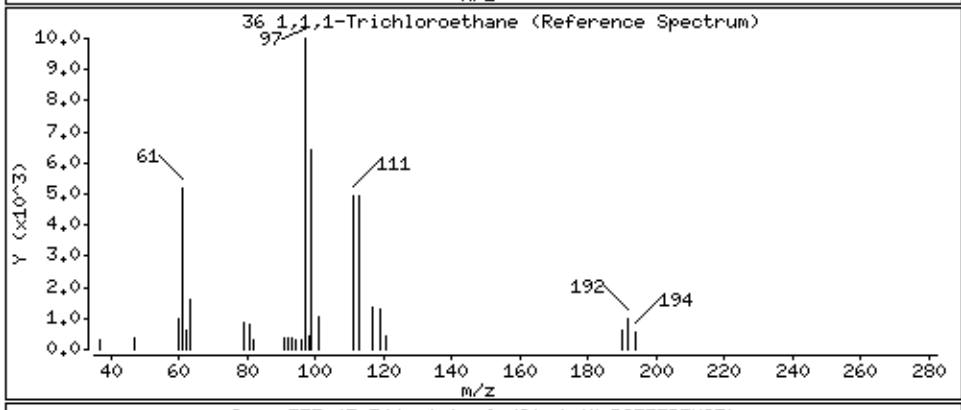
36 1,1,1-Trichloroethane

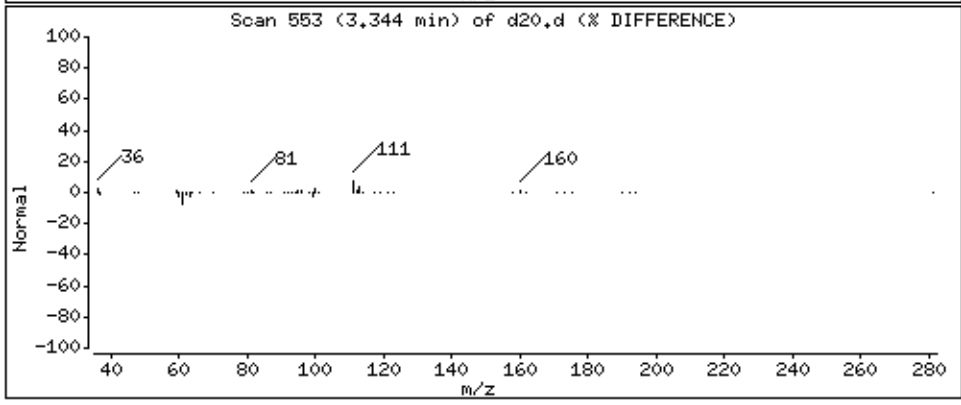
Concentration: 53.8 ppb

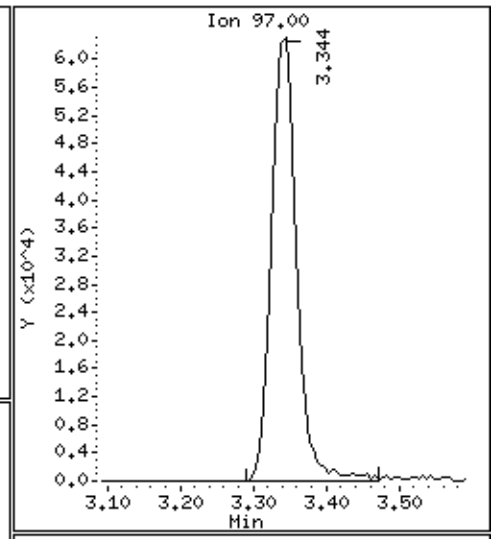
Review Code:

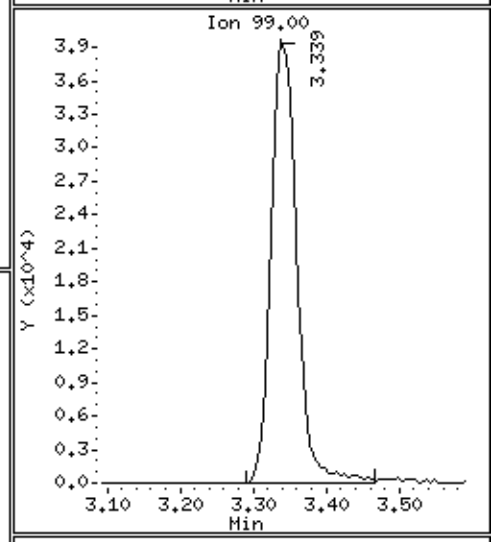


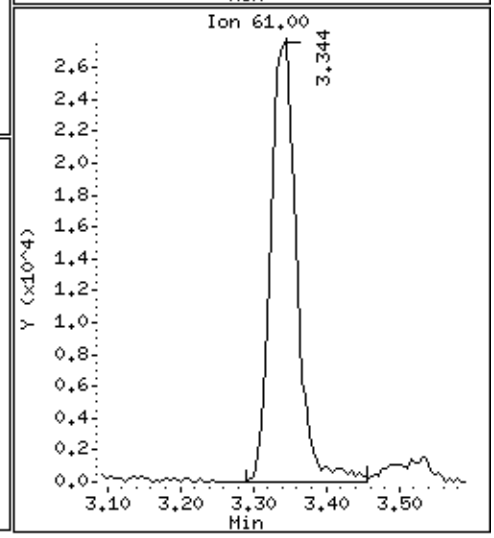












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

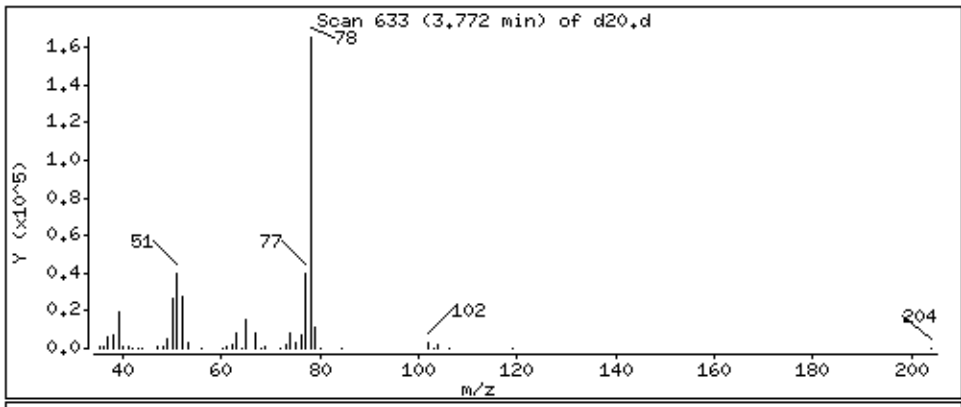
Column phase: DB-624

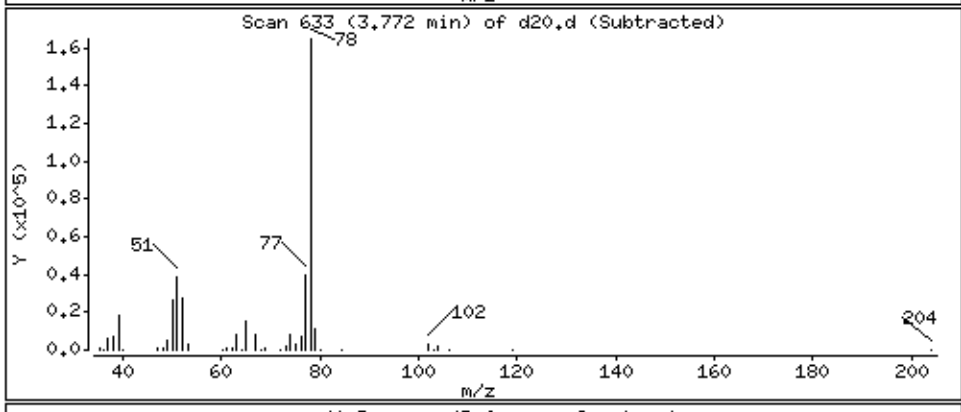
Column diameter: 0.18

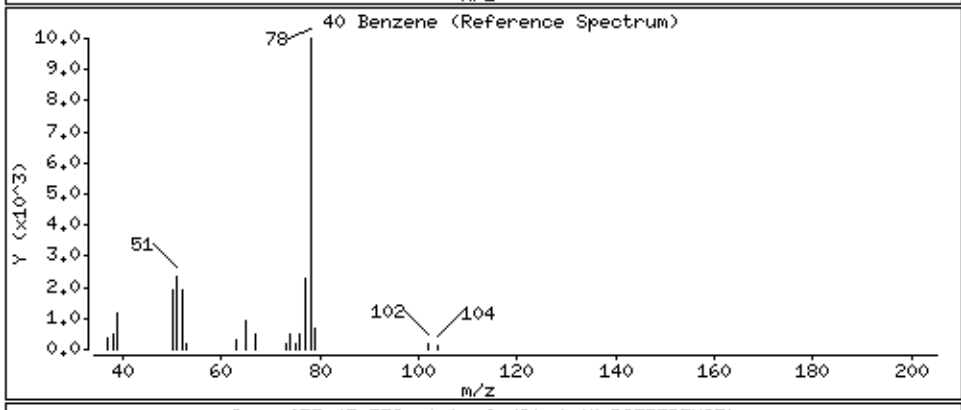
40 Benzene

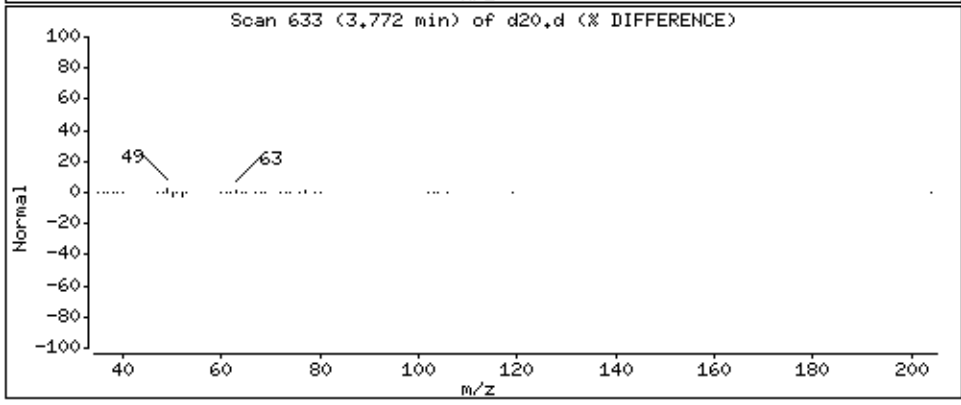
Concentration: 51.4 ppb

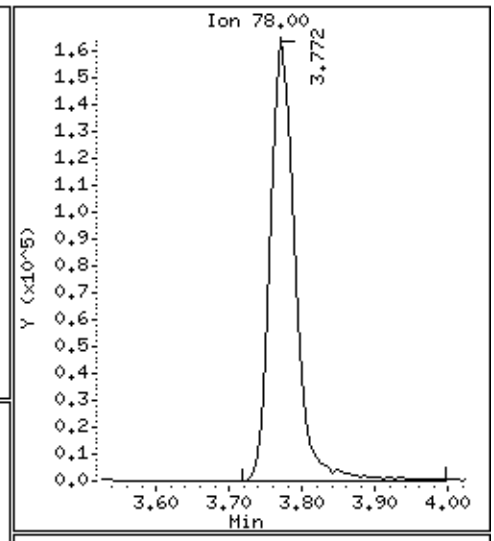
Review Code:

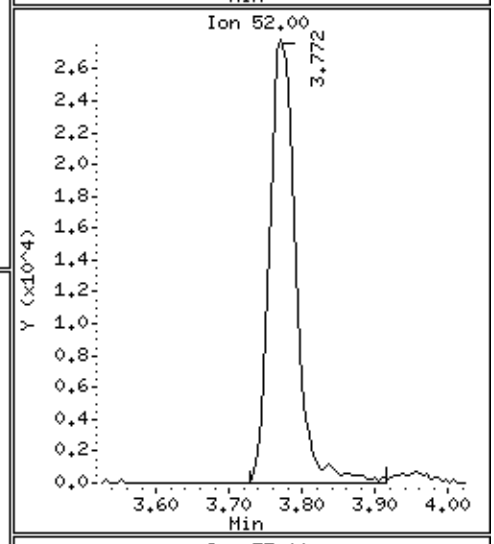


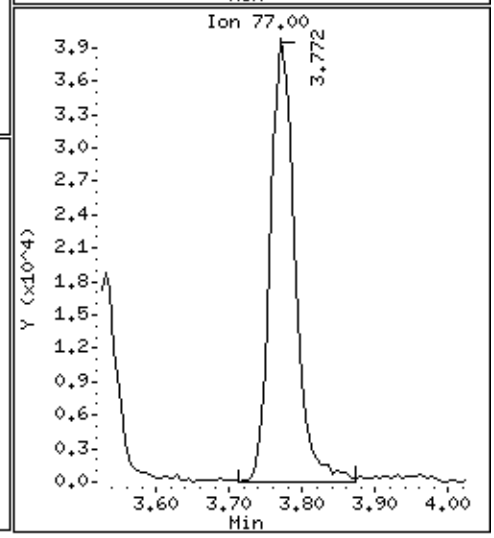












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

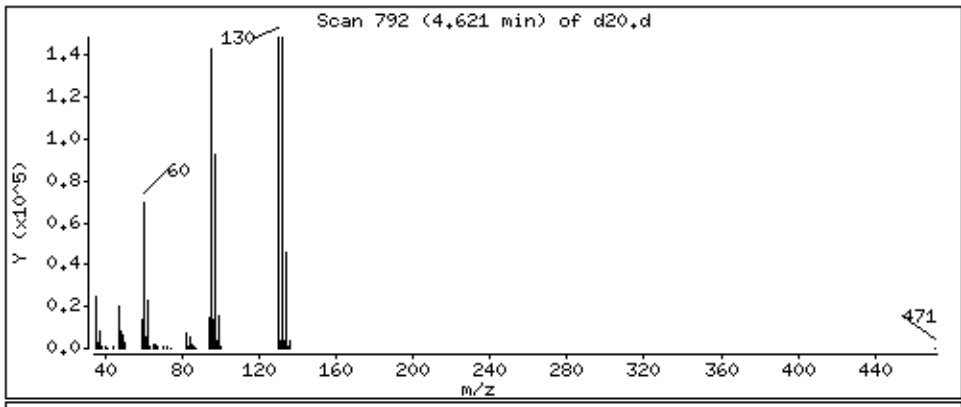
Column phase: DB-624

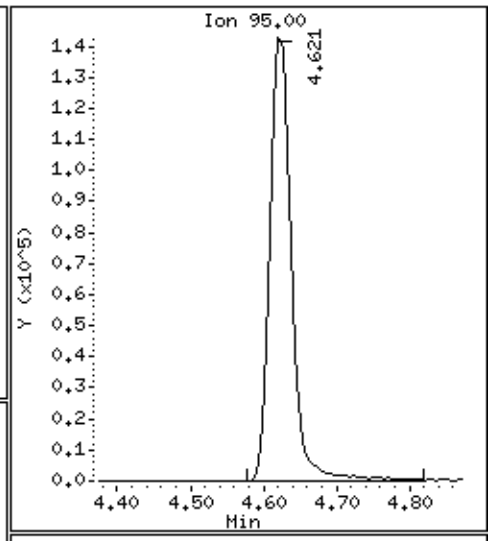
Column diameter: 0.18

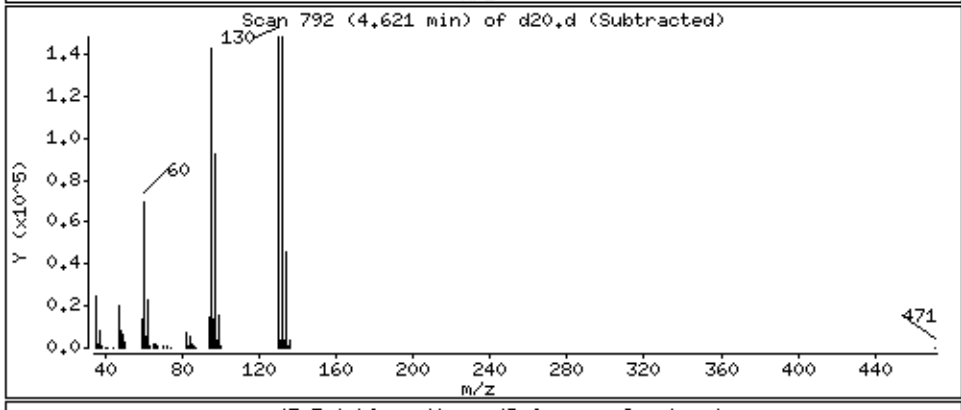
45 Trichloroethene

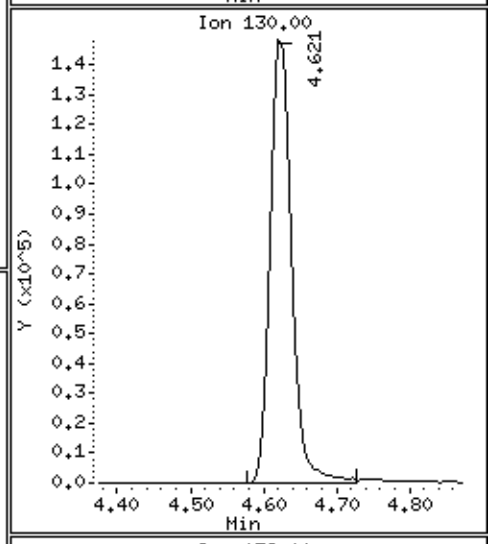
Concentration: 159 ppb

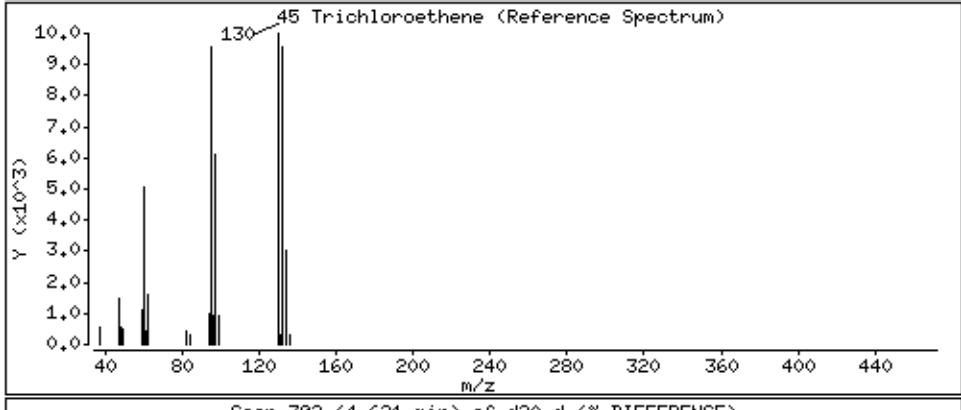
Review Code:

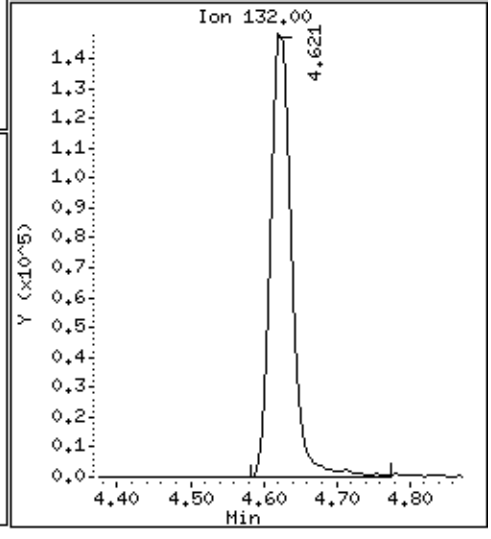


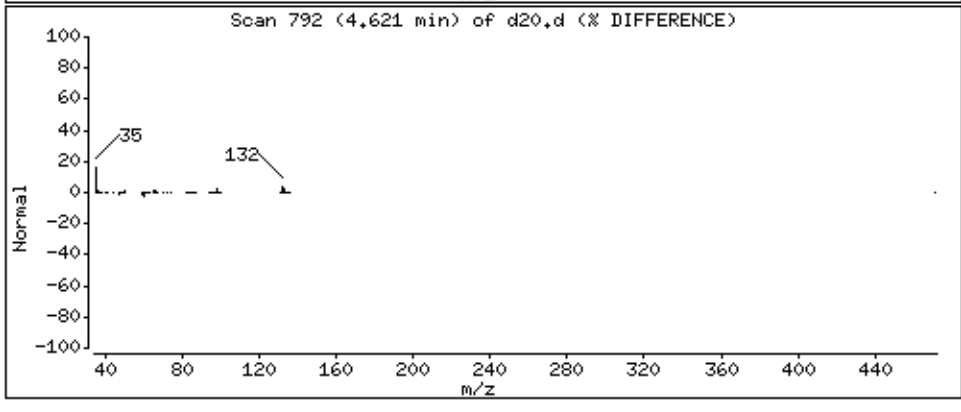












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

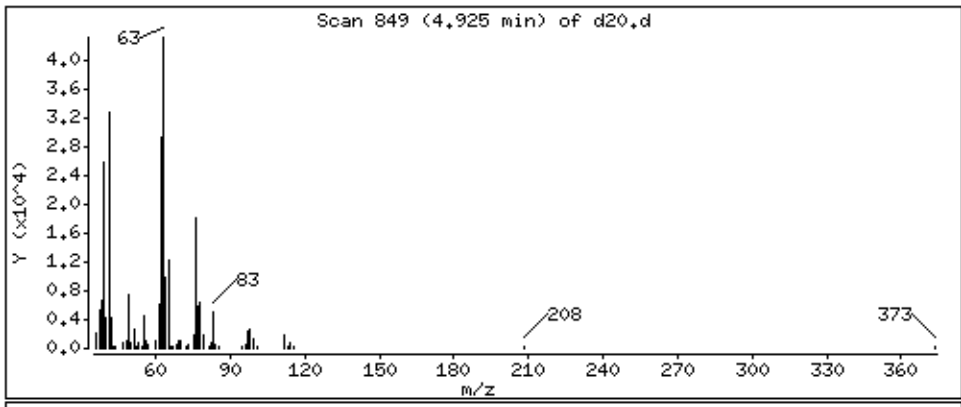
Column phase: DB-624

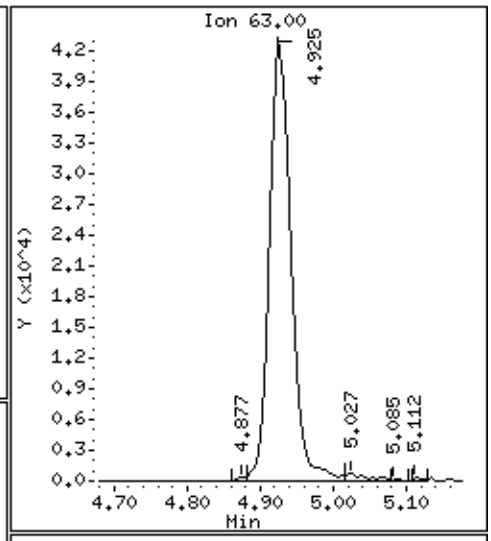
Column diameter: 0.18

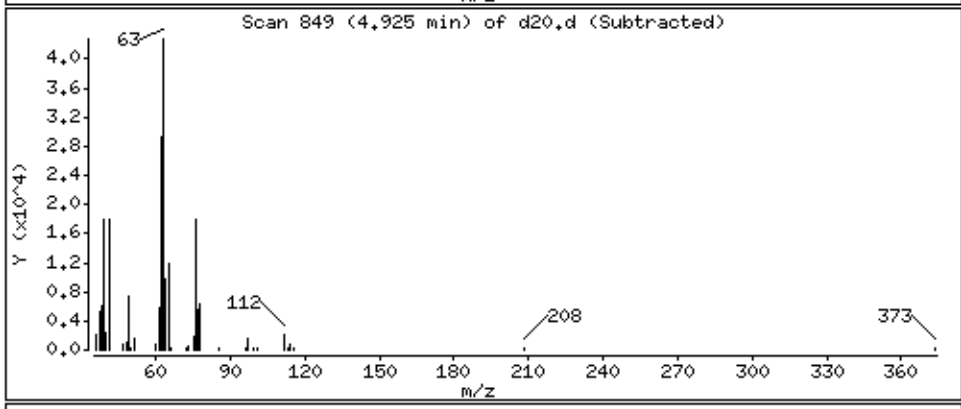
47 1,2-Dichloropropane

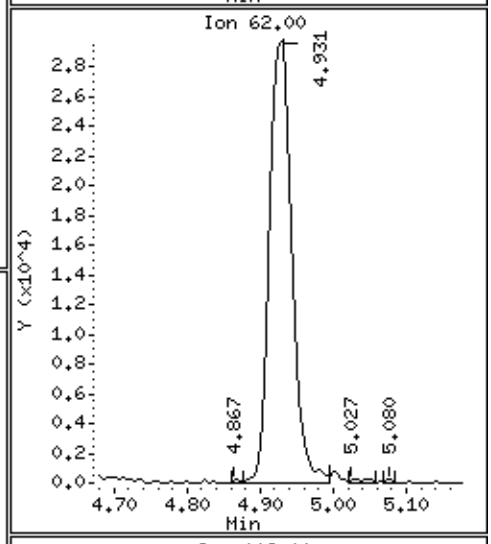
Concentration: 49.5 ppb

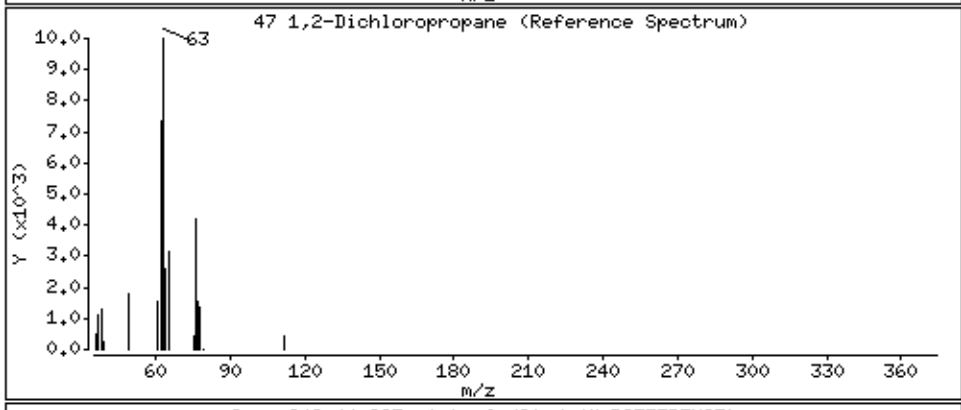
Review Code:

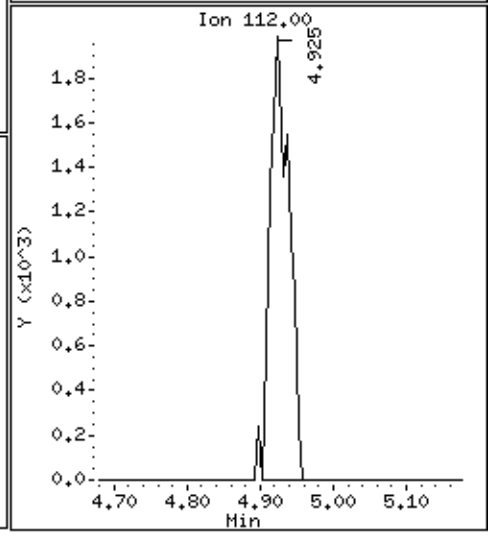


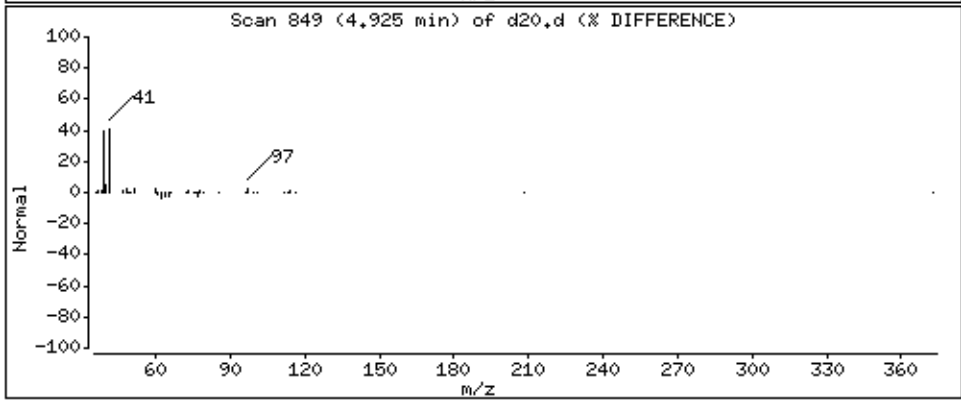












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

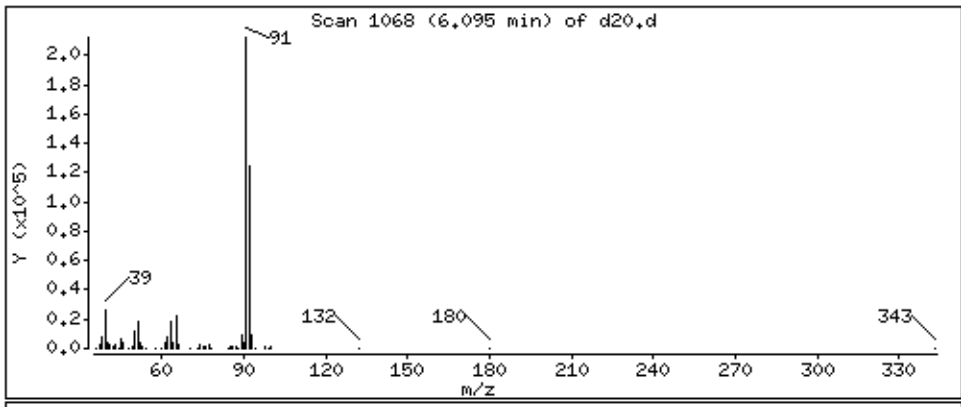
Column phase: DB-624

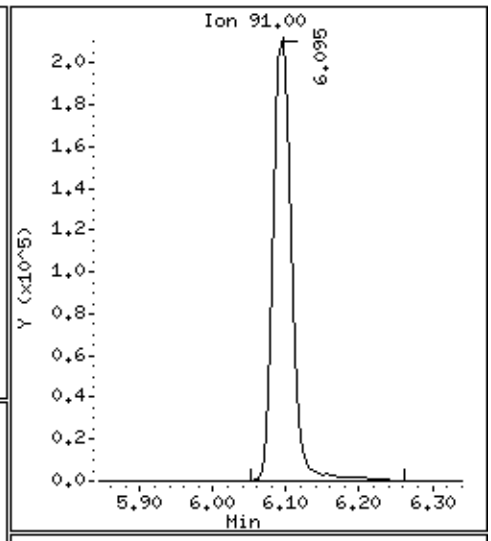
Column diameter: 0.18

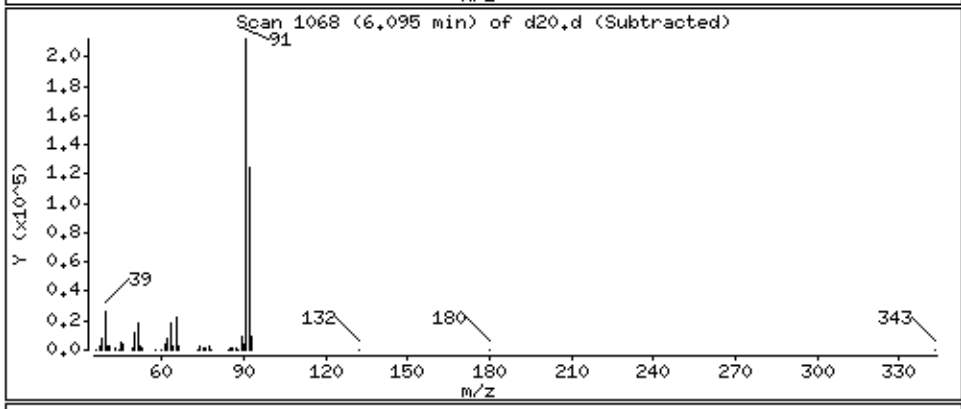
56 Toluene

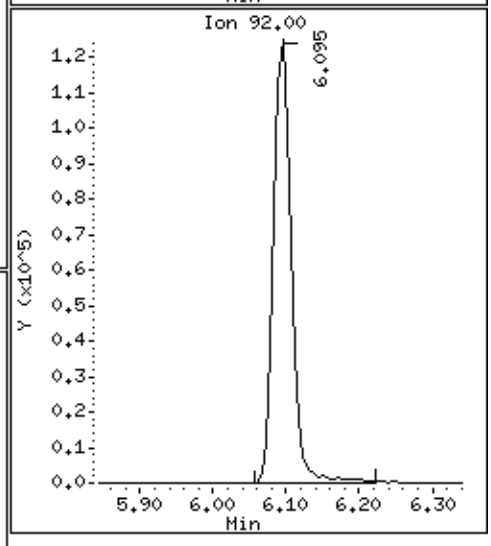
Concentration: 46.8 ppb

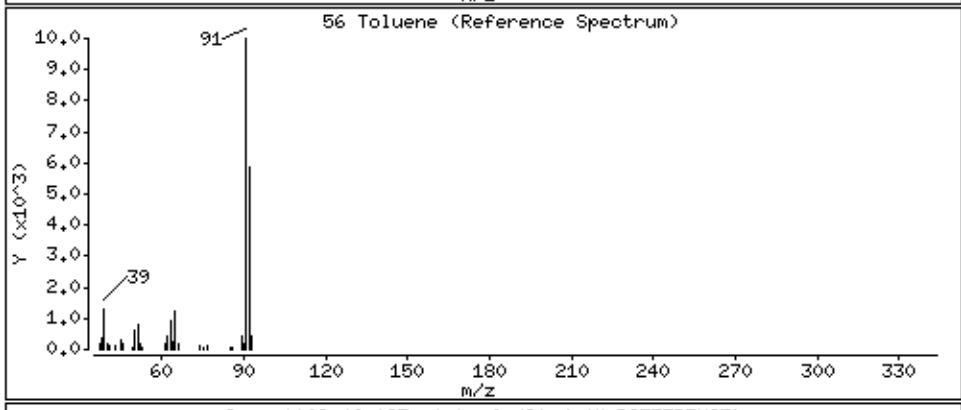
Review Code:

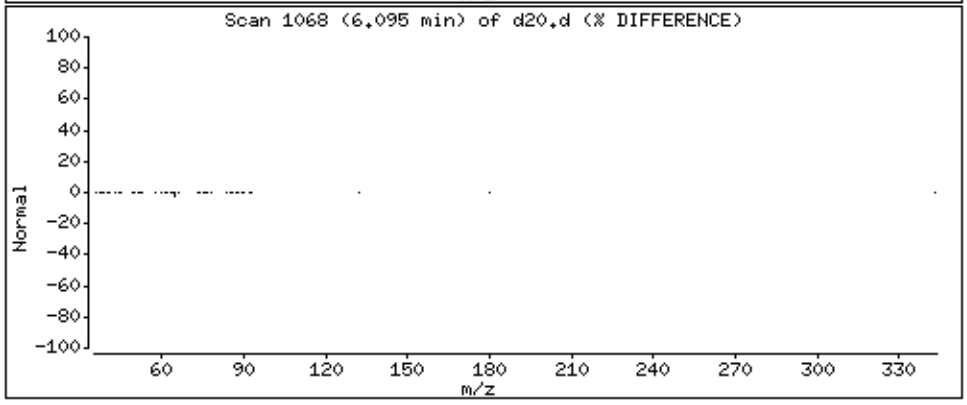












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

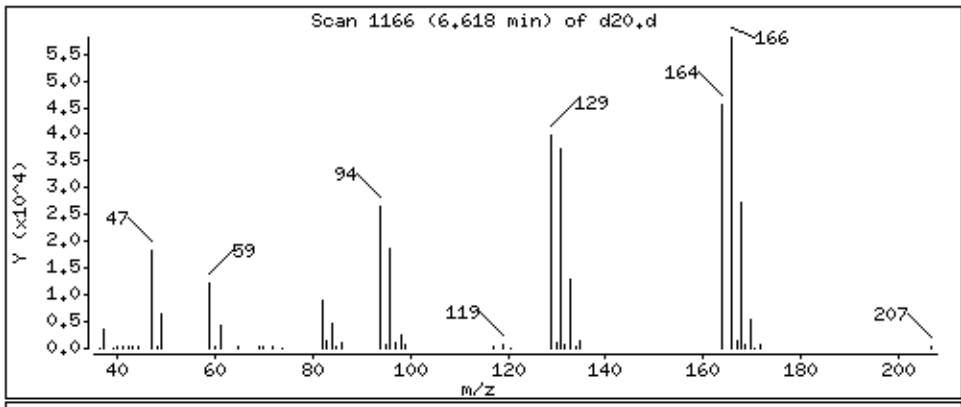
Column phase: DB-624

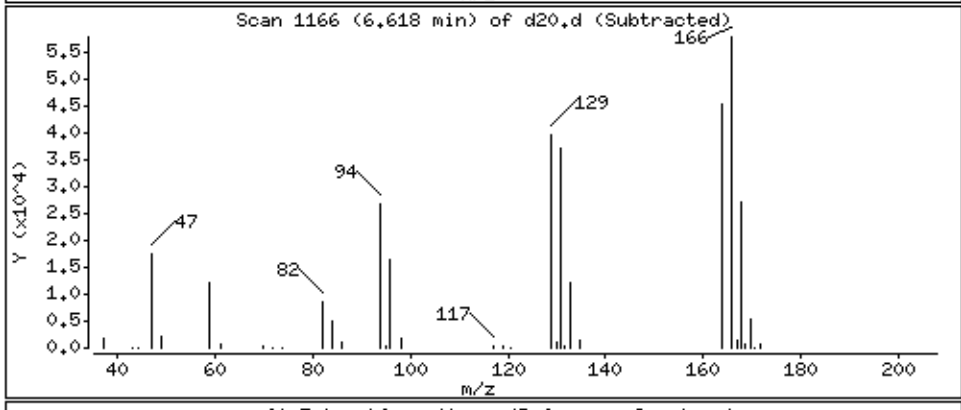
Column diameter: 0.18

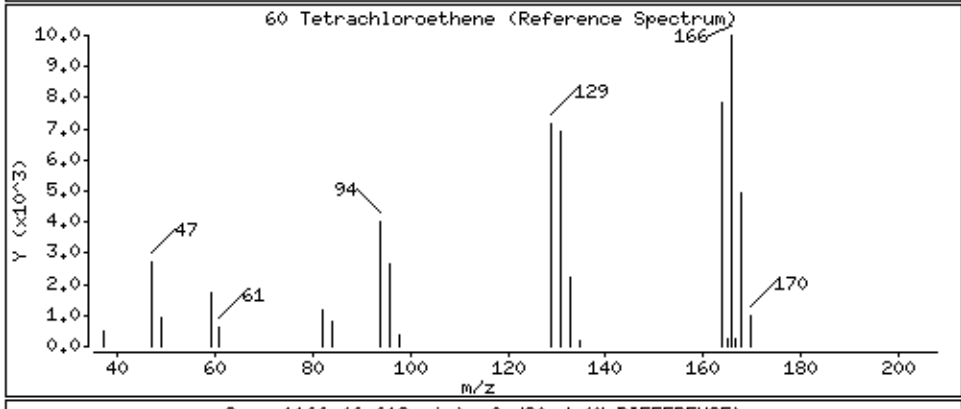
60 Tetrachloroethene

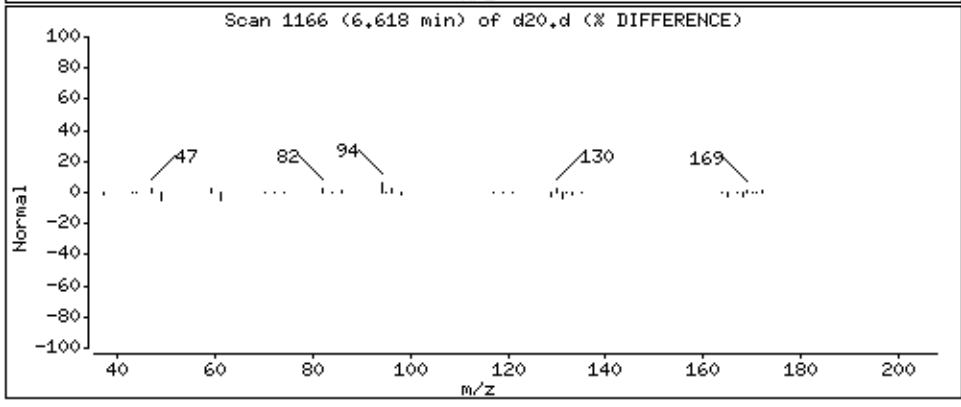
Concentration: 52.2 ppb

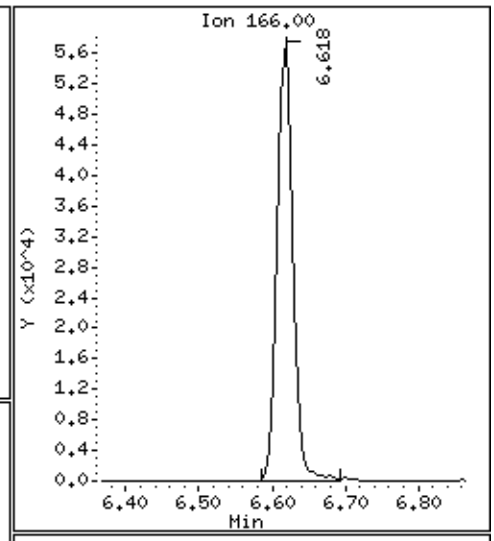
Review Code:

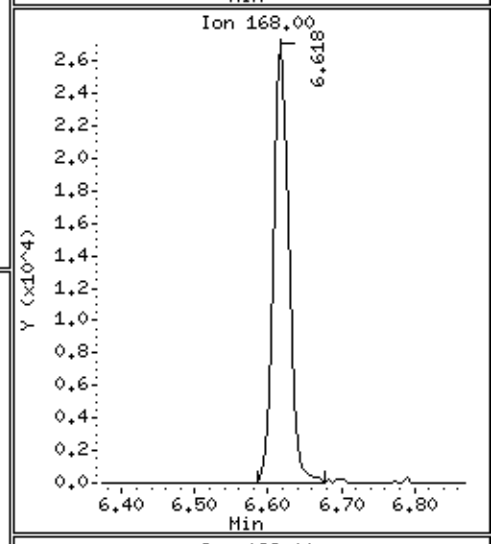


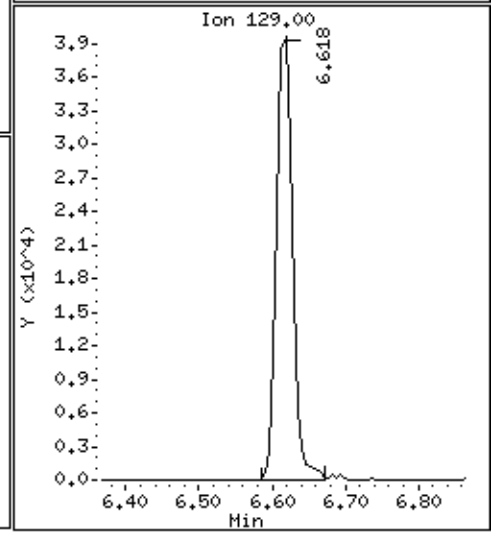












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

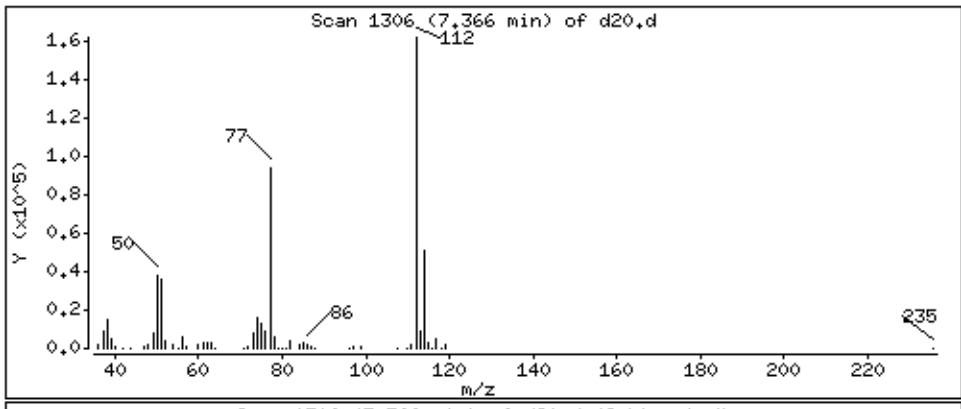
Column phase: DB-624

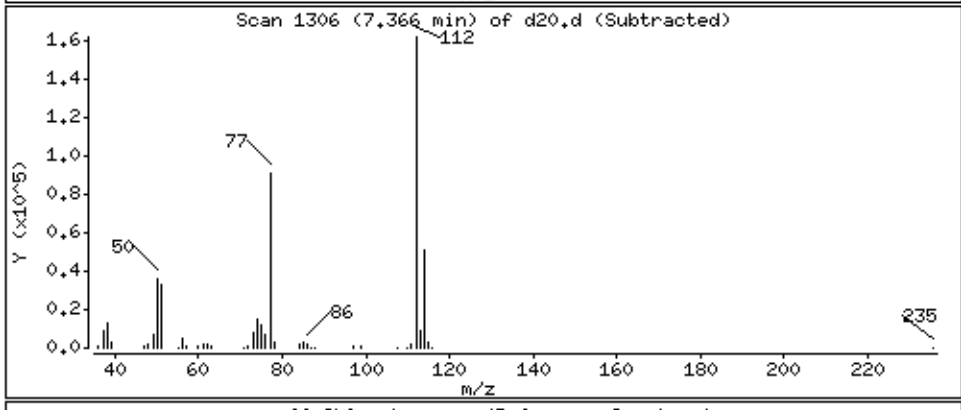
Column diameter: 0.18

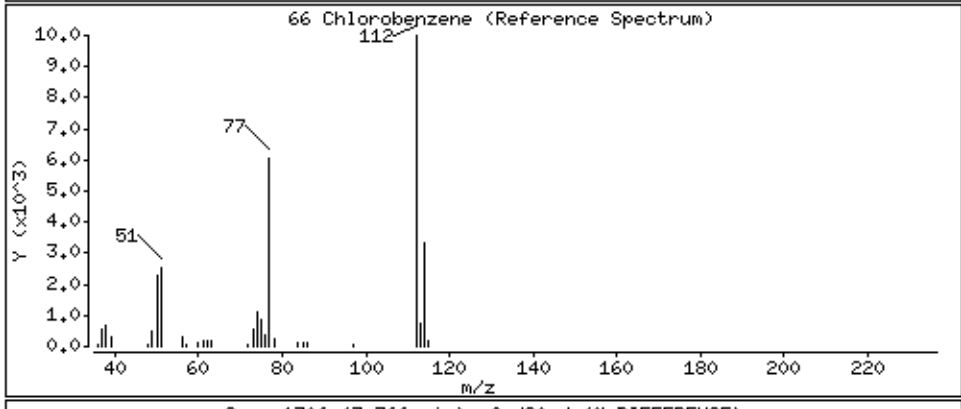
66 Chlorobenzene

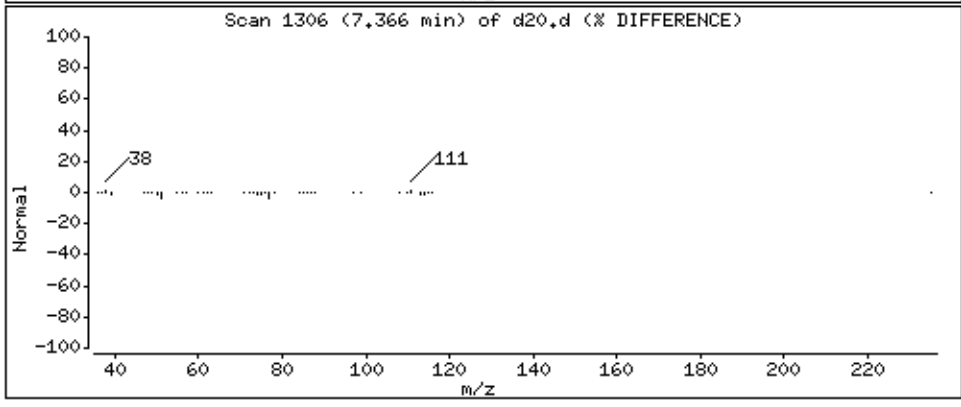
Concentration: 49.2 ppb

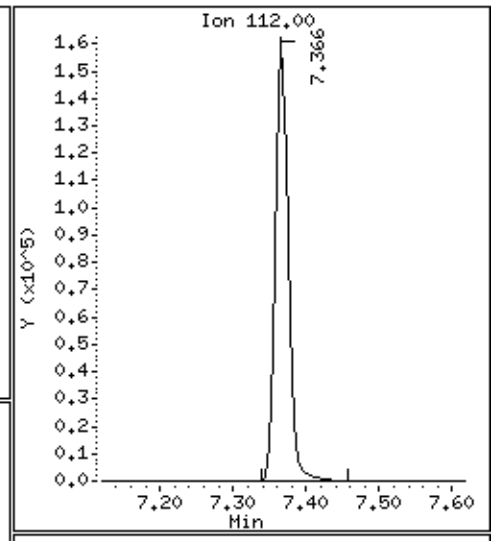
Review Code:

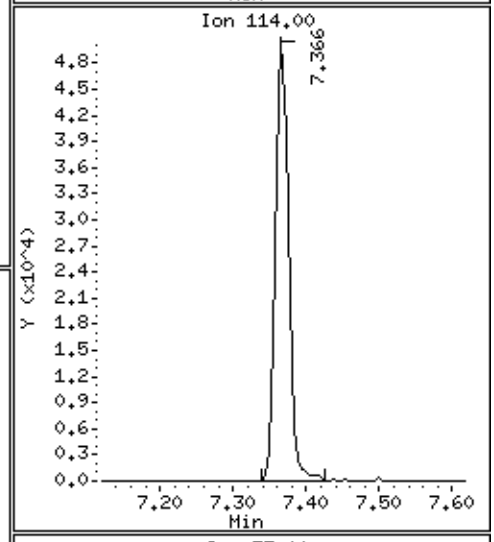


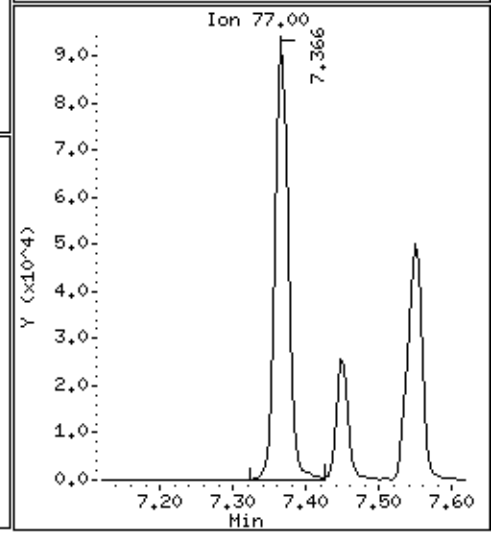












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

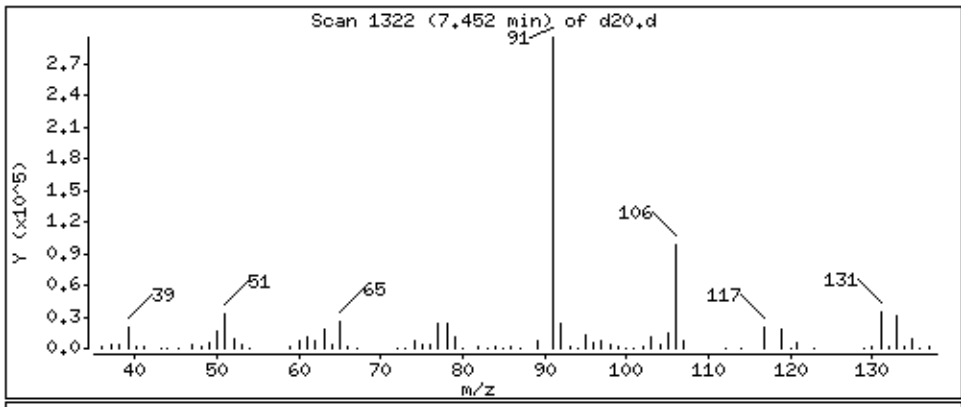
Column phase: DB-624

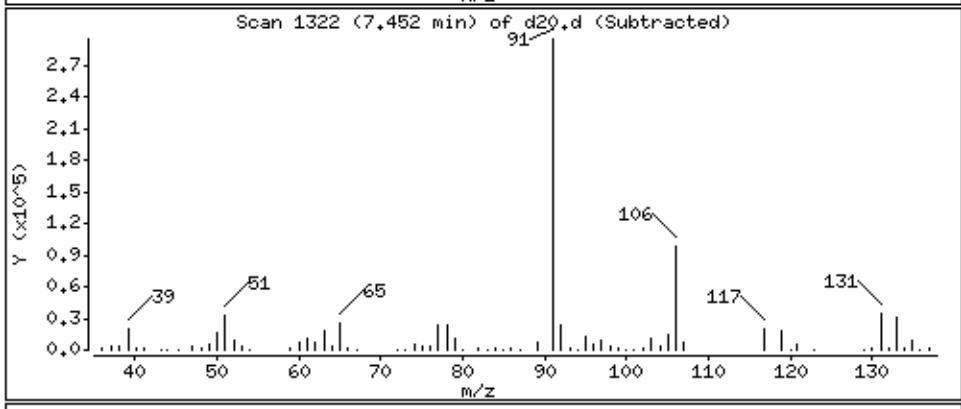
Column diameter: 0.18

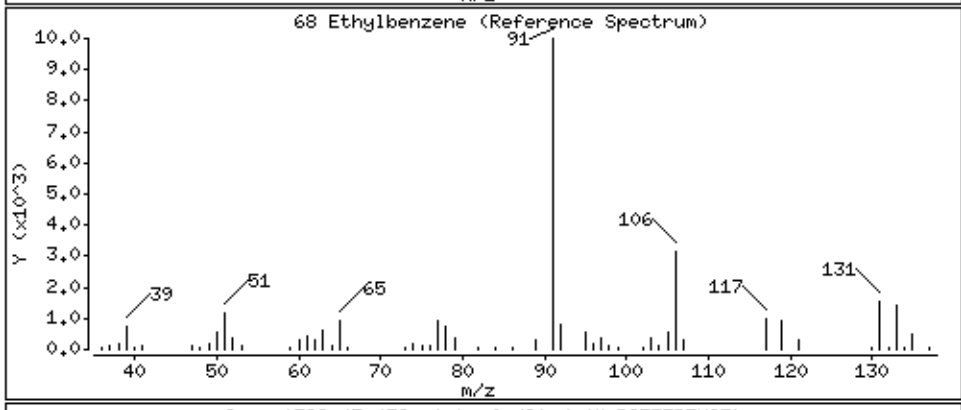
68 Ethylbenzene

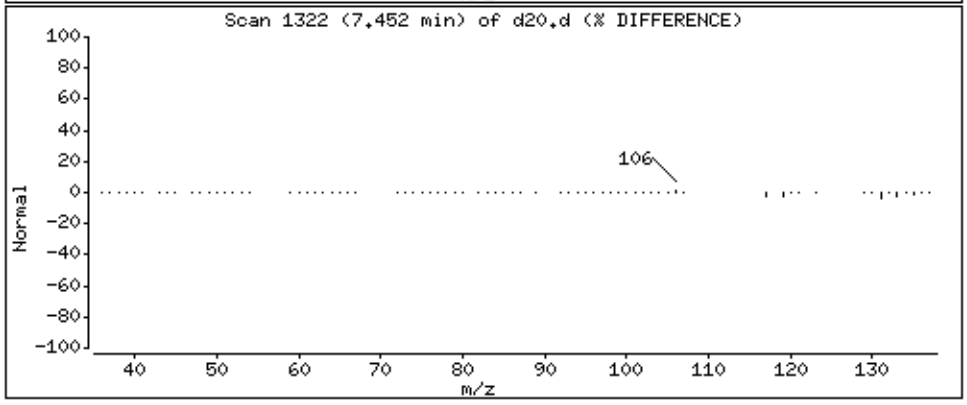
Concentration: 51.2 ppb

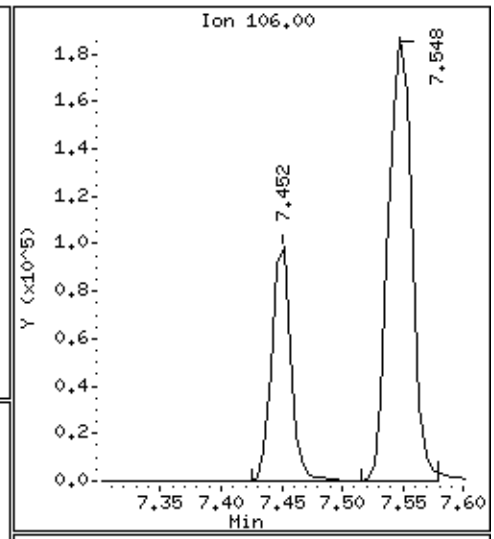
Review Code:

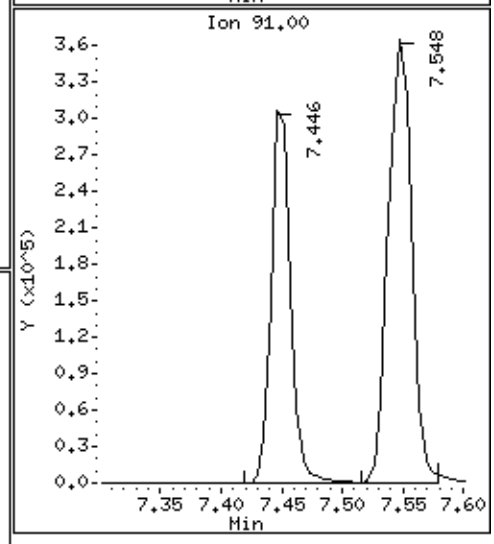












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

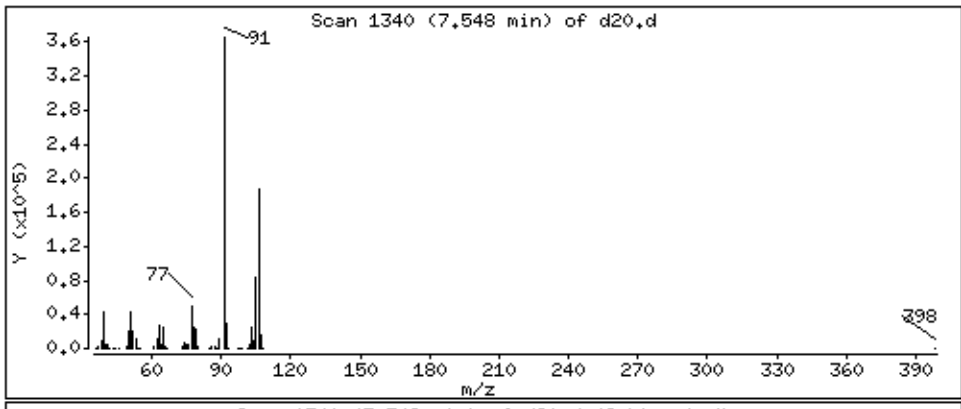
Column phase: DB-624

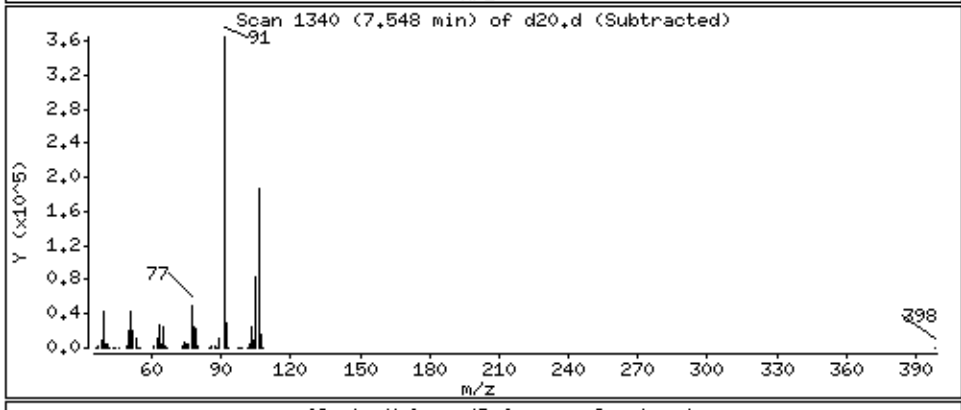
Column diameter: 0.18

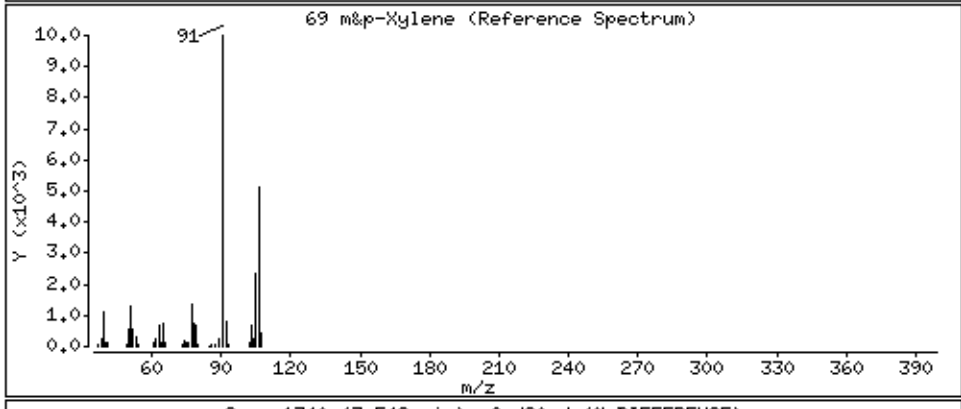
69 m&p-Xylene

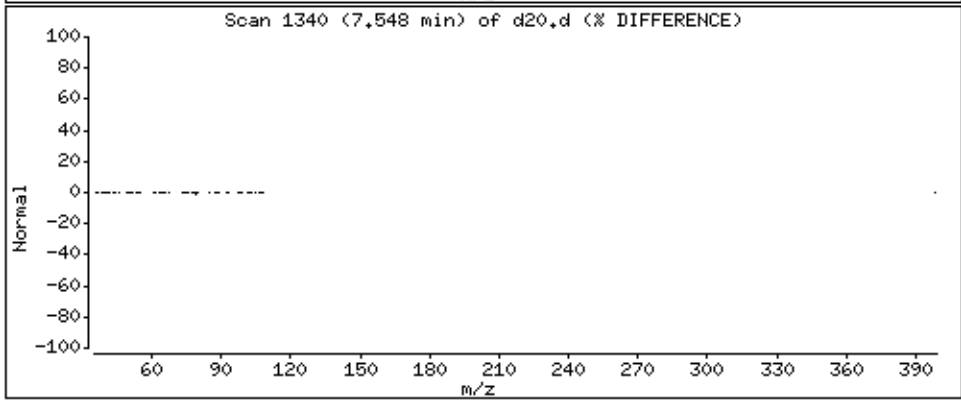
Concentration: 98.2 ppb

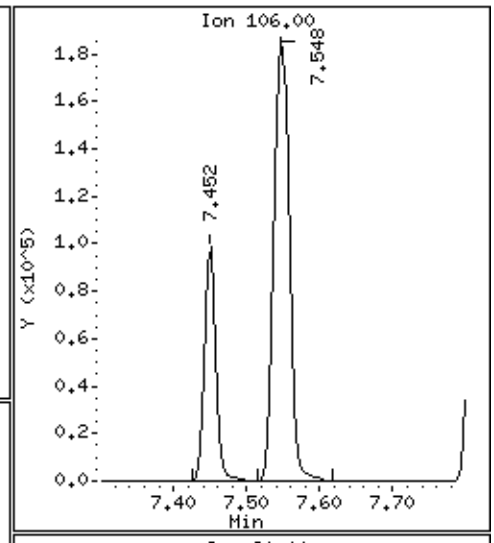
Review Code:

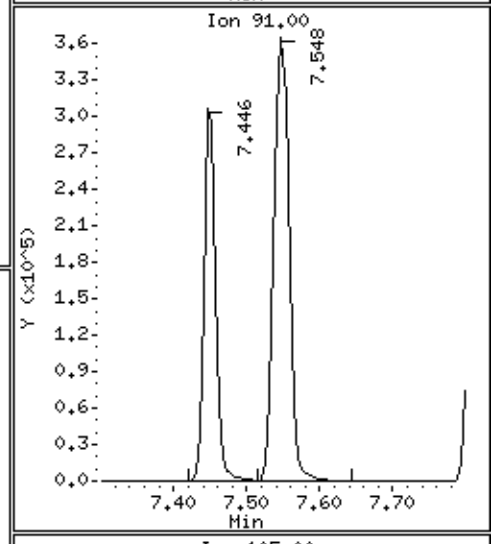


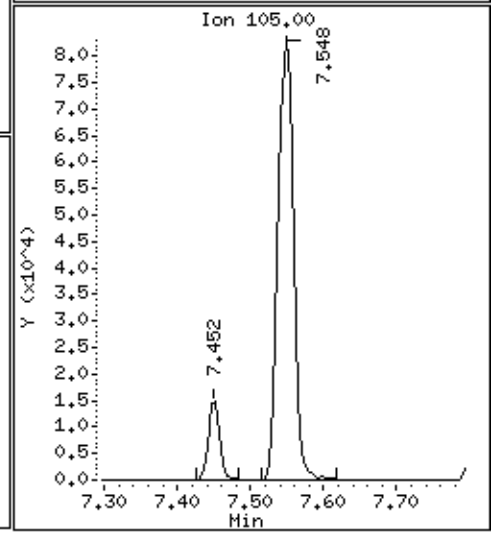












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

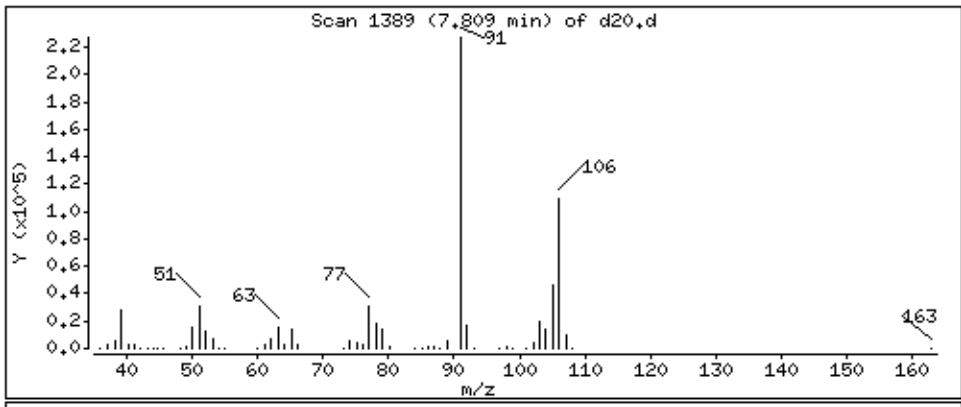
Column phase: DB-624

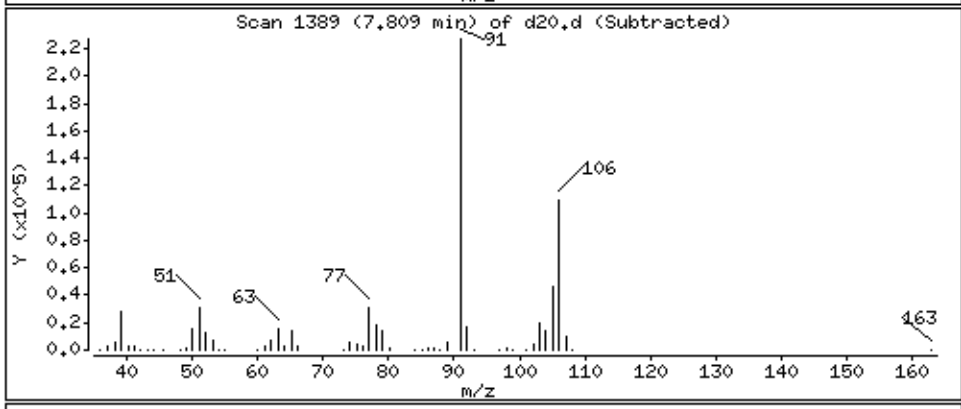
Column diameter: 0.18

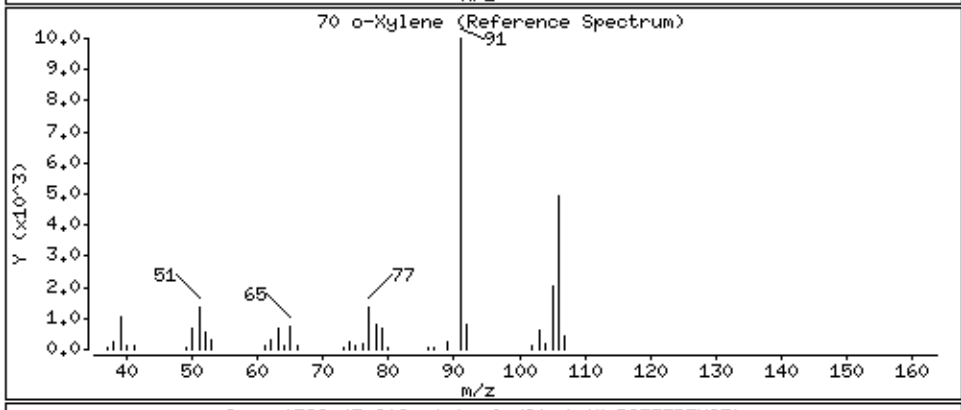
70 o-Xylene

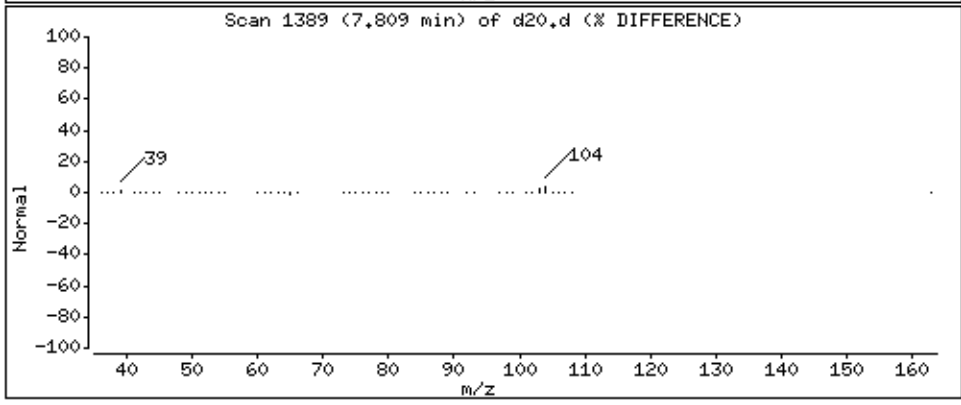
Concentration: 49.6 ppb

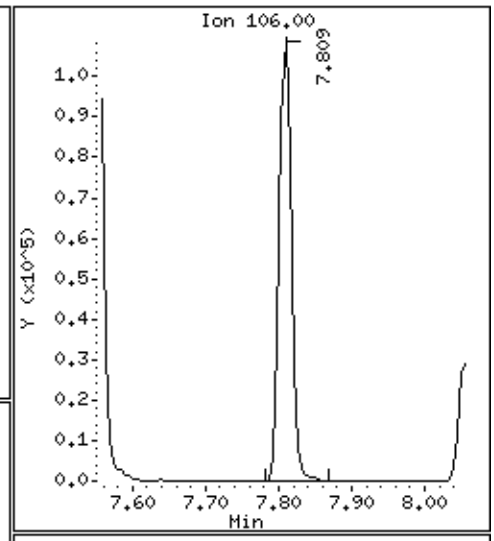
Review Code:

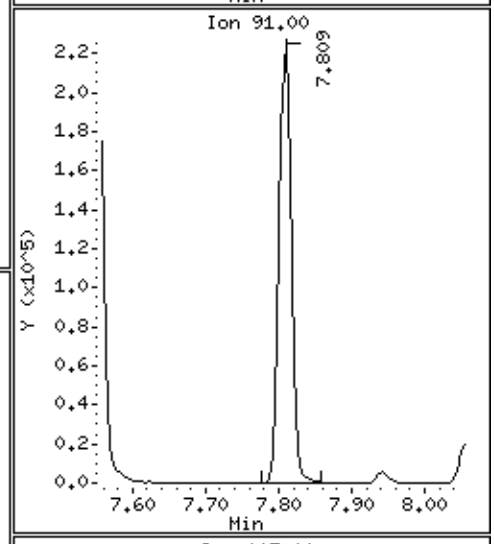


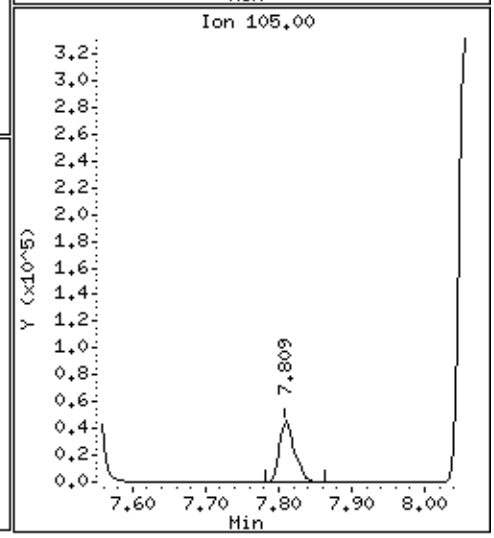












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

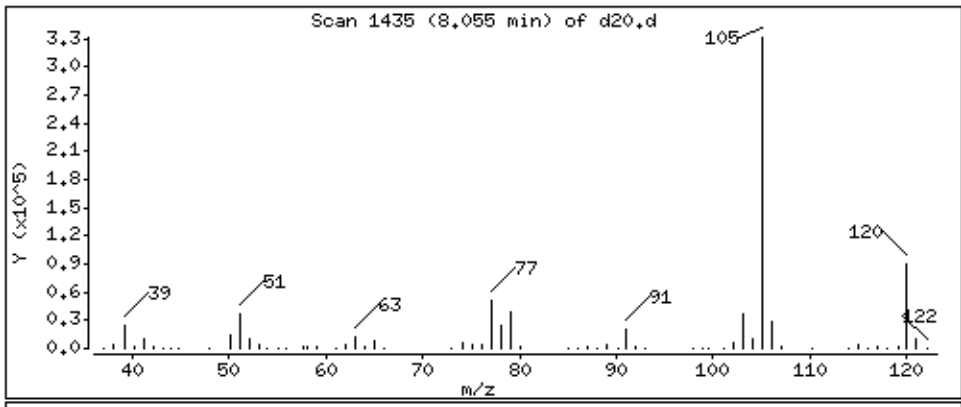
Column phase: DB-624

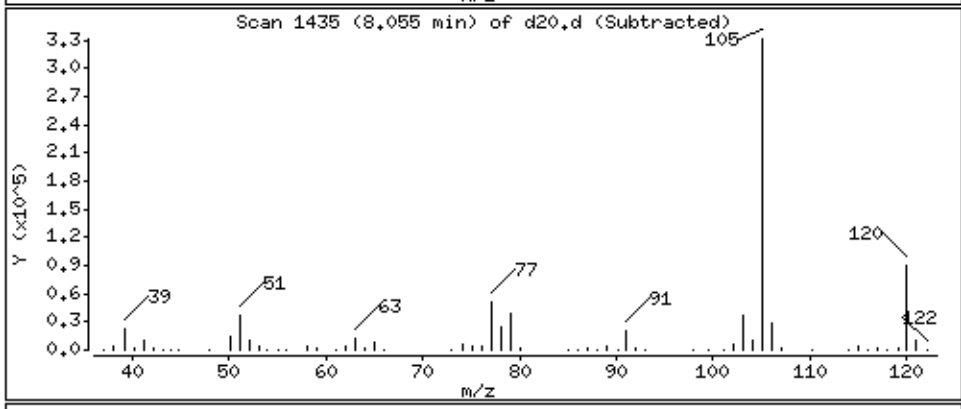
Column diameter: 0.18

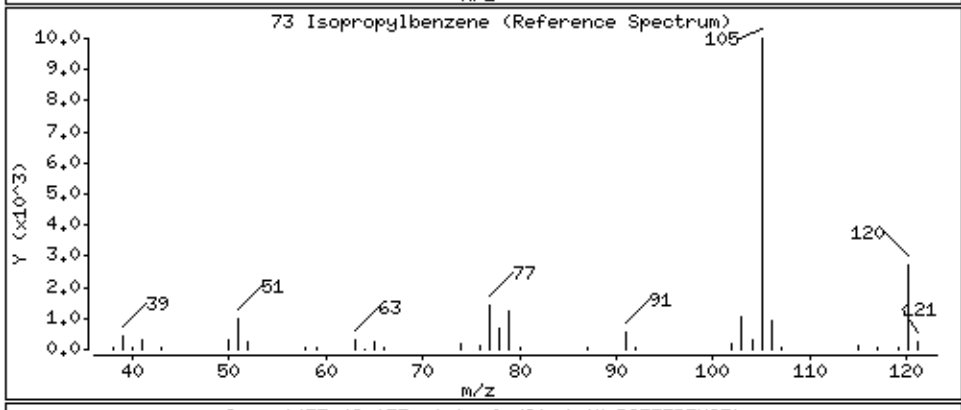
73 Isopropylbenzene

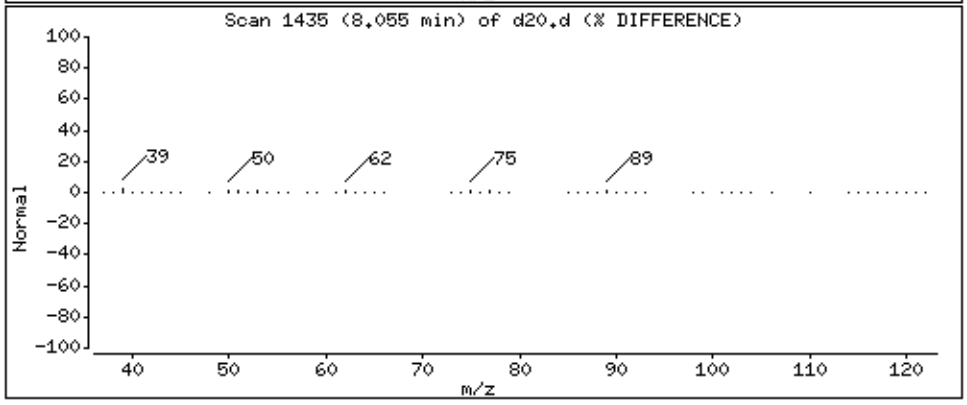
Concentration: 51.4 ppb

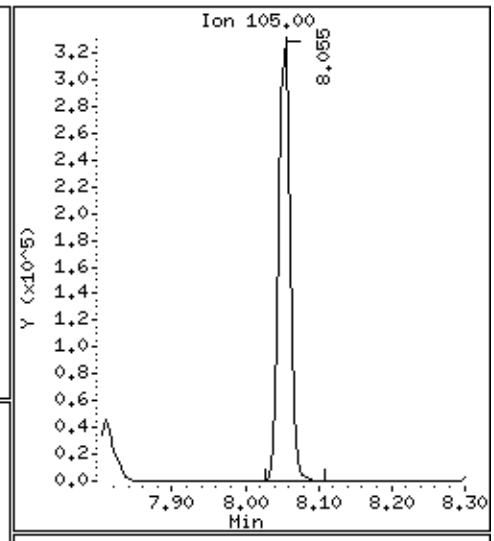
Review Code:

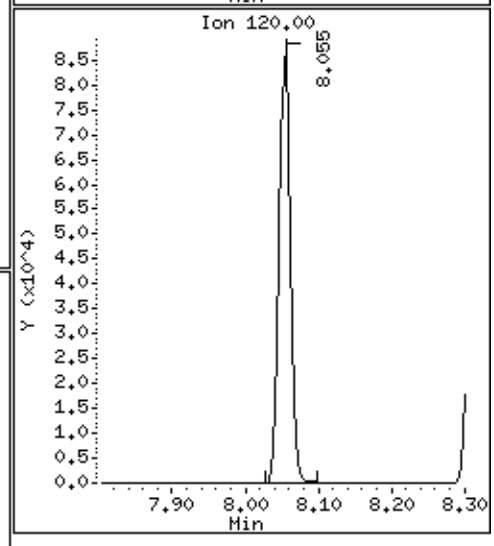












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

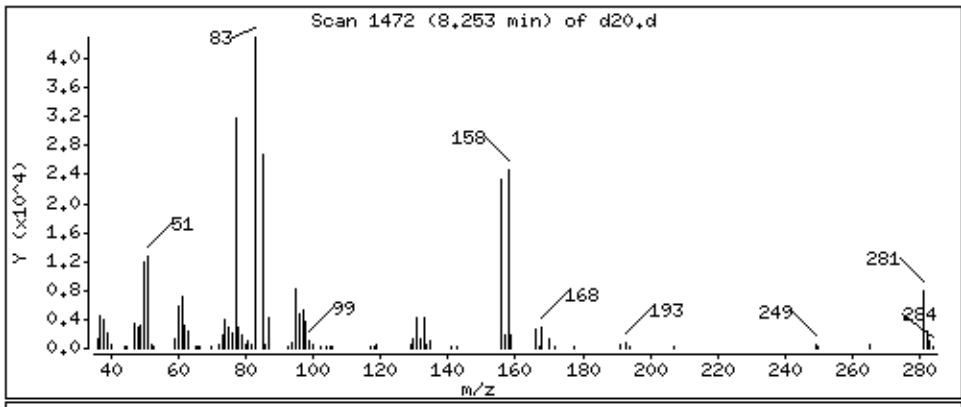
Column phase: DB-624

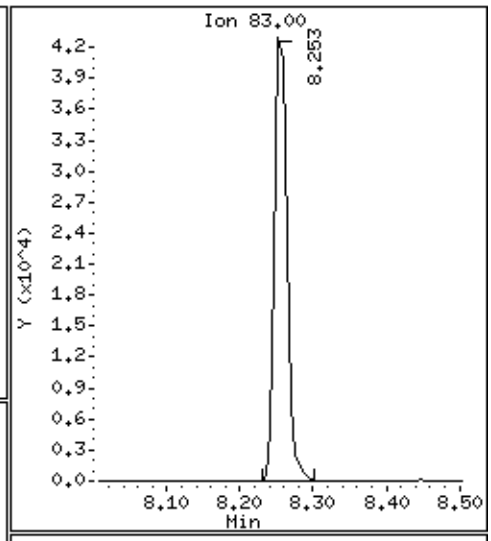
Column diameter: 0.18

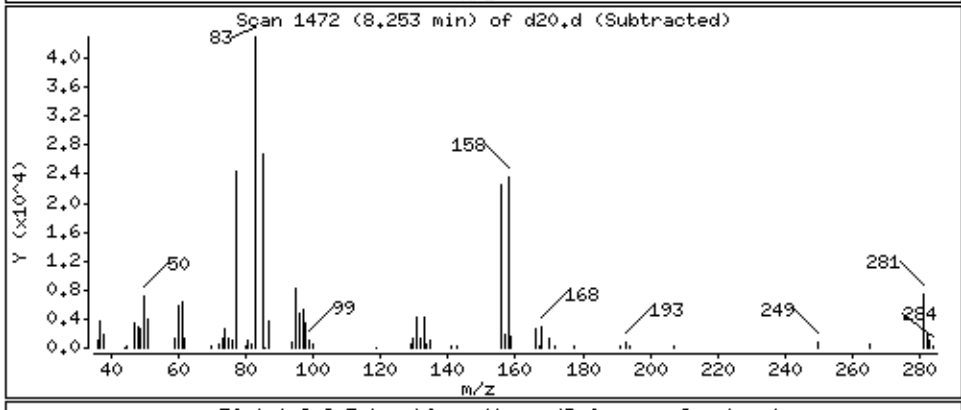
76 1,1,2,2-Tetrachloroethane

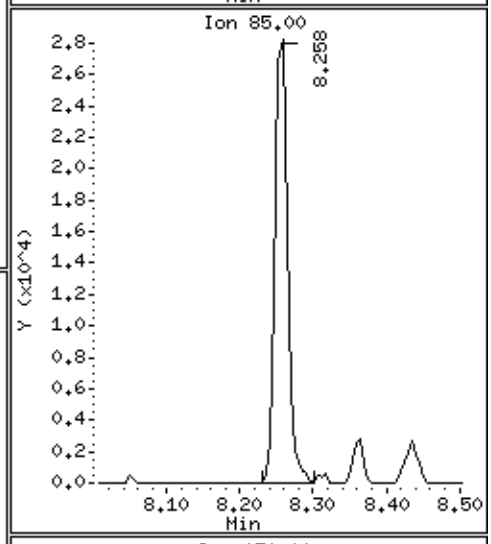
Concentration: 45.2 ppb

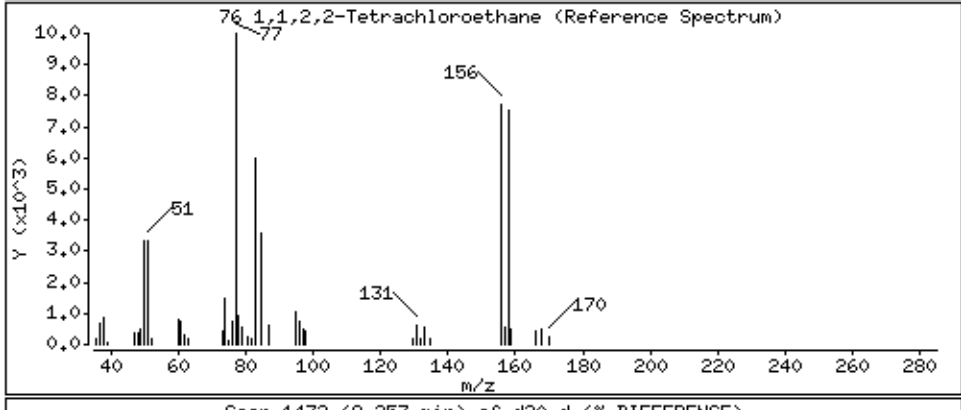
Review Code:

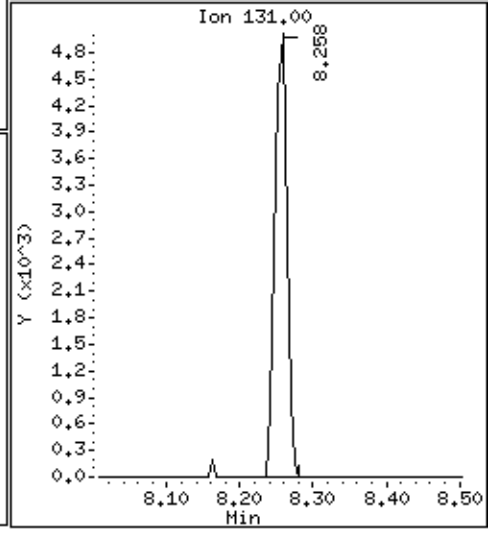


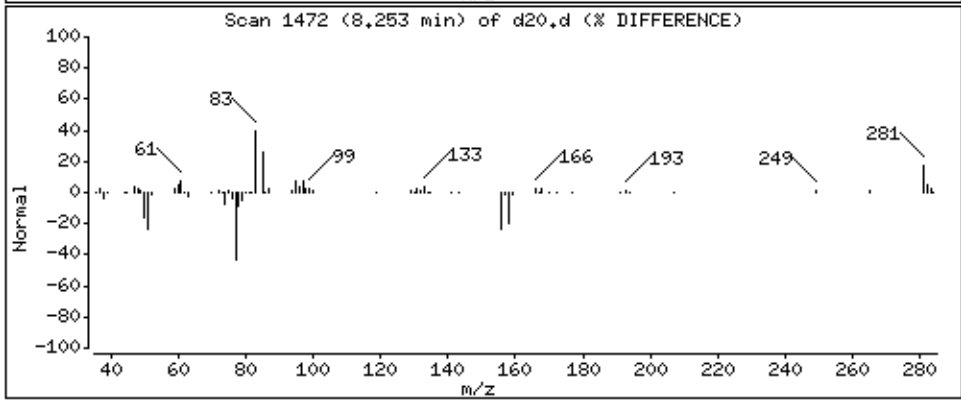












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

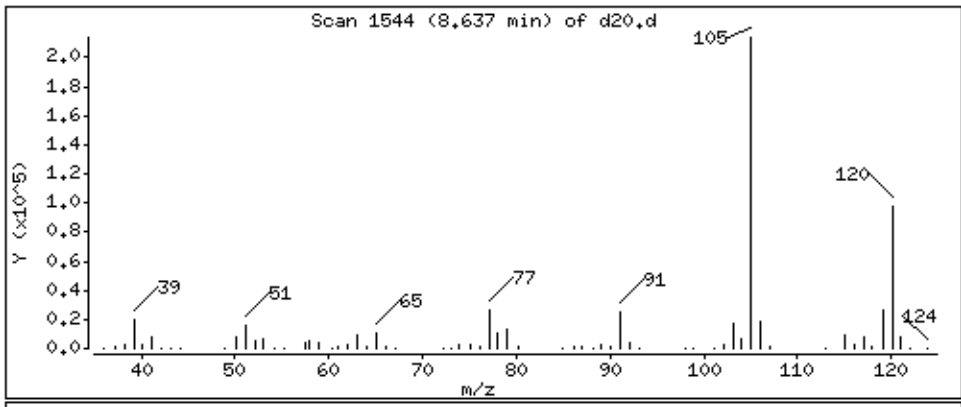
Column phase: DB-624

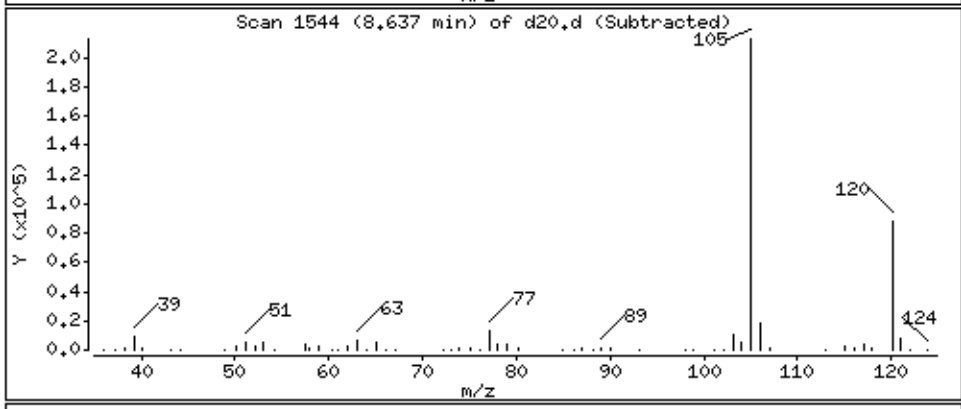
Column diameter: 0.18

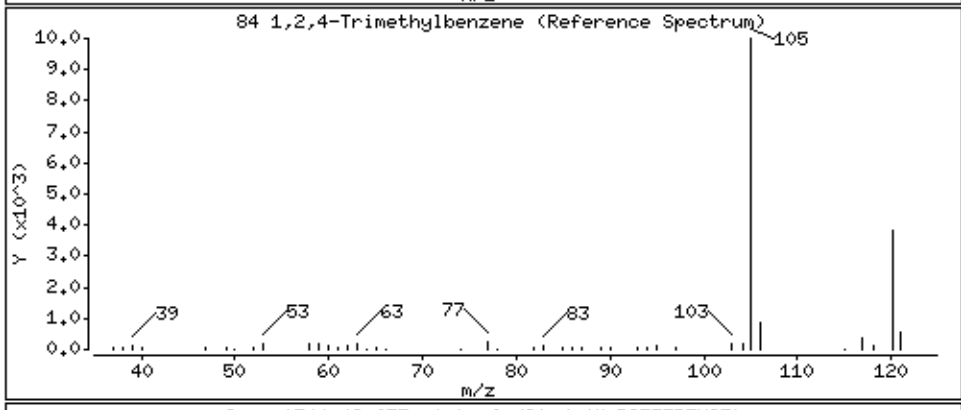
84 1,2,4-Trimethylbenzene

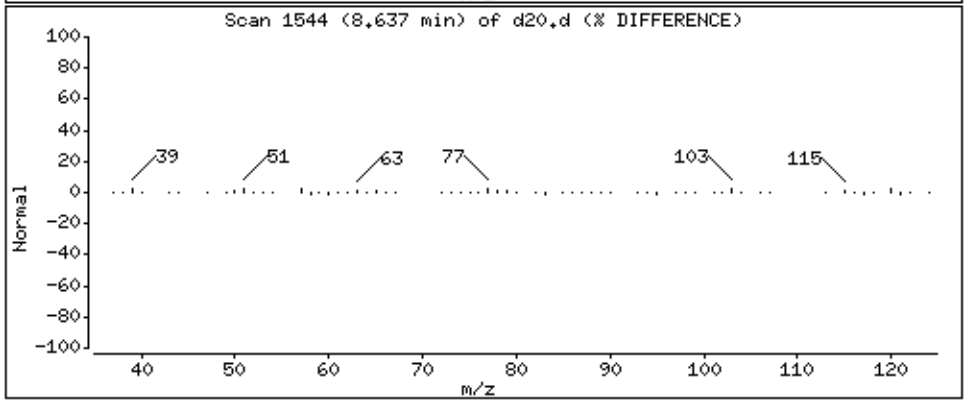
Concentration: 42.9 ppb

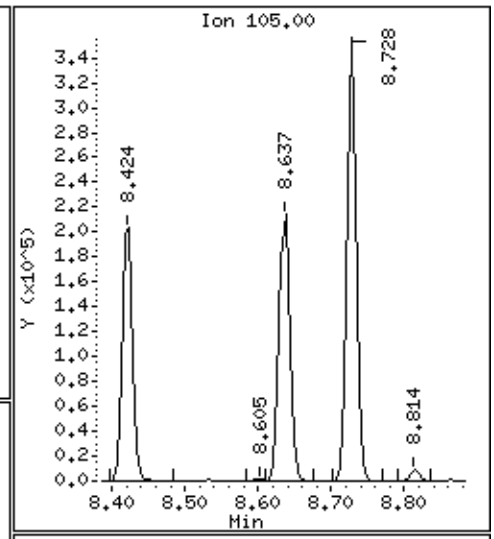
Review Code:

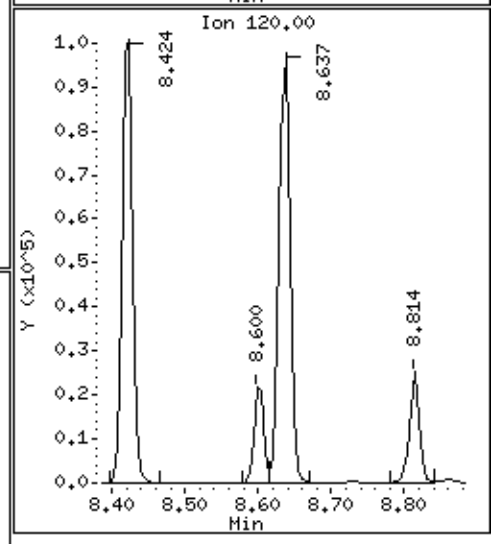












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d20.d

Date : 12-APR-2016 09:22

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516503,118316:5

Purge Volume: 5.0

Operator: jlz

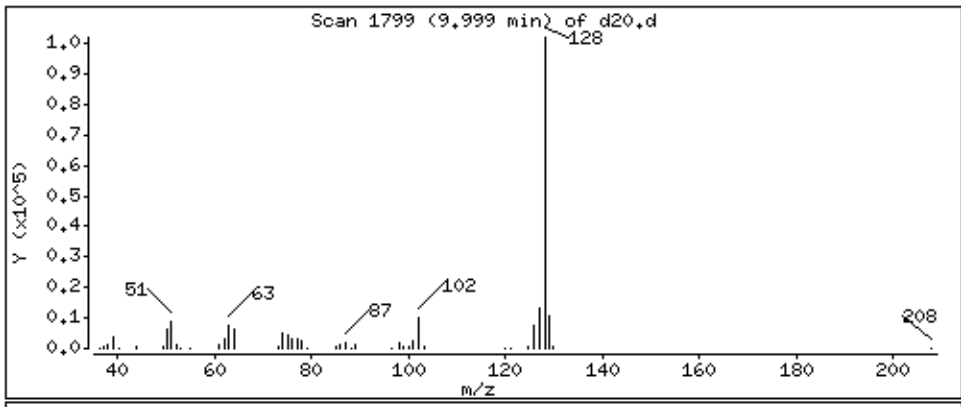
Column phase: DB-624

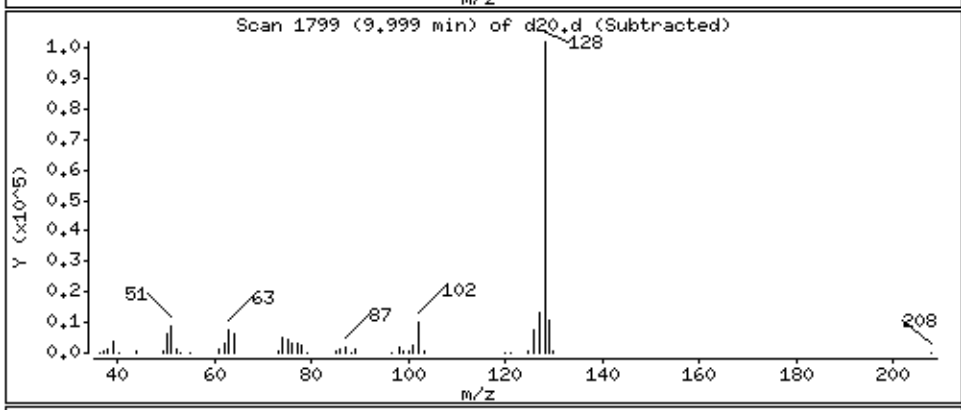
Column diameter: 0.18

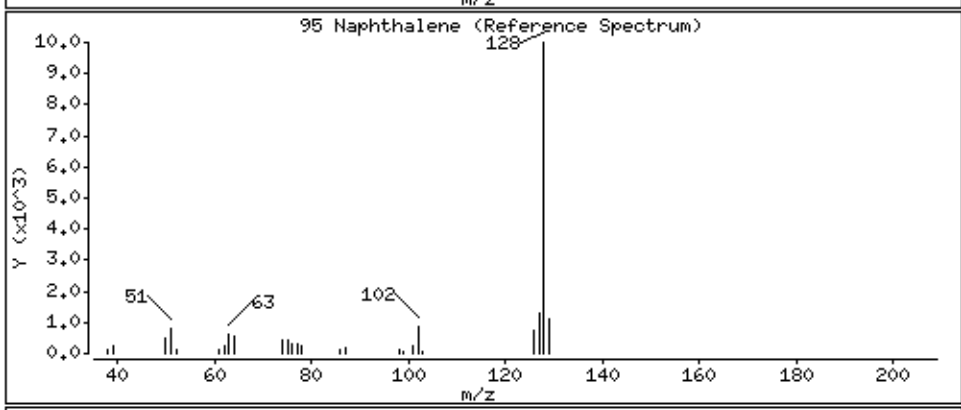
95 Naphthalene

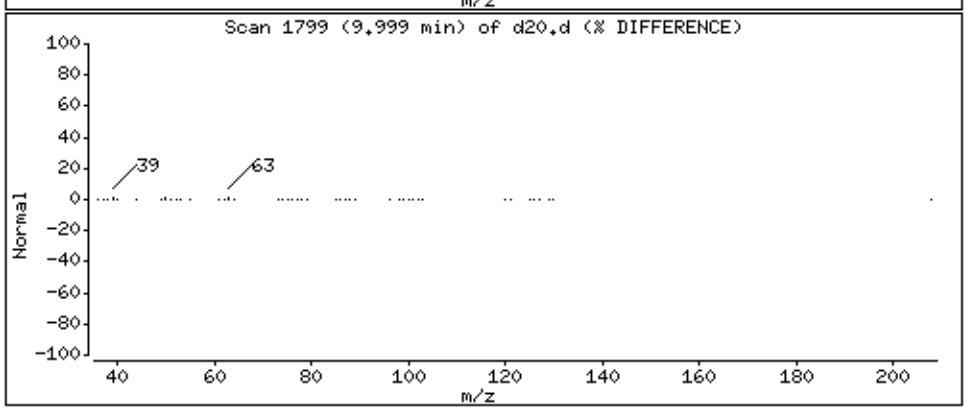
Concentration: 43.0 ppb

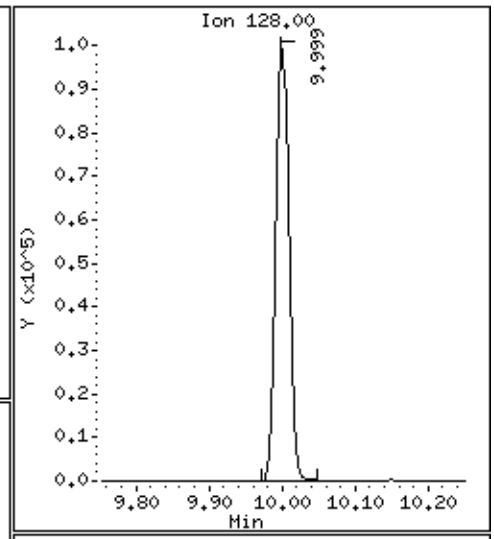
Review Code:

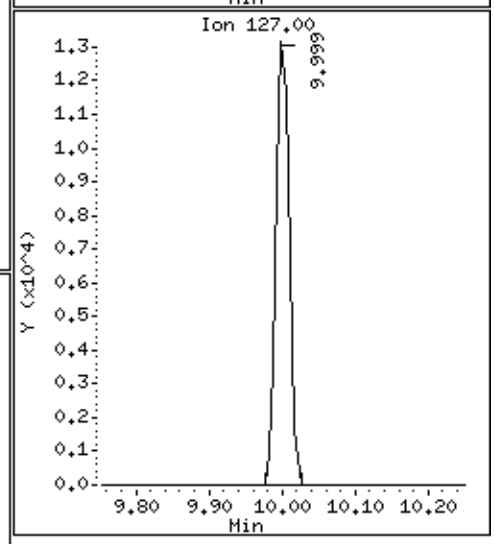












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d20.d
Injection Date: 12-APR-2016 09:22
Instrument: 50mv3b.i
Lab Sample ID: 1516503
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/12/2016 09:54 Lab Sample ID: 1516504

Date Analyzed: 04/12/2016 09:54 Lab File ID: B041116.B\D21.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3B Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	53.4	
108-90-7	Chlorobenzene	50.2	
67-66-3	Chloroform	54.8	
75-35-4	1,1-Dichloroethene	53.7	
156-59-2	cis-1,2-Dichloroethene	96.8	
156-60-5	trans-1,2-Dichloroethene	62.4	
78-87-5	1,2-Dichloropropane	49.9	
100-41-4	Ethylbenzene	52.4	
98-82-8	Isopropylbenzene (Cumene)	53.2	
1634-04-4	Methyl-tert-butyl ether	54.0	
79-34-5	1,1,2,2-Tetrachloroethane	51.6	
127-18-4	Tetrachloroethene	52.2	
108-88-3	Toluene	48.6	
71-55-6	1,1,1-Trichloroethane	56.3	
79-01-6	Trichloroethene	164	
75-01-4	Vinyl chloride	52.7	
1330-20-7	Xylene (Total)	155	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d
Lab Smp Id: 1516504 Client Smp ID: MW-0705-S1(033016)P
Inj Date : 12-APR-2016 09:54
Operator : jlz Inst ID: 50mv3b.i
Smp Info : 1516504,118316:5
Misc Info : 88899
Comment :
Method : \\192.168.50.6\chem\50mv3b.i\b041116.b\-b8260_a_c.m
Meth Date : 12-Apr-2016 15:17 50mv3b.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:37 Cal File: b11cal8.d
Als bottle: 90 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.045	1.045	(0.250)	188681	52.6638	52.7	
	11 1,1-Dichloroethene	96	1.601	1.601	(0.383)	120293	53.6733	53.7	
	21 Methyl-tert-butyl ether	73	2.033	2.033	(0.487)	217810	53.9955	54.0	
	22 1,2-Dichloroethene (trans)	96	2.044	2.044	(0.490)	124732	62.4031	62.4(R)	
	28 1,2-Dichloroethene (cis)	96	2.824	2.824	(0.676)	191914	96.8439	96.8(R)	
	34 Chloroform	83	3.166	3.165	(0.758)	176820	54.8393	54.8	
	36 1,1,1-Trichloroethane	97	3.342	3.342	(0.800)	158446	56.3136	56.3	
$	35 Dibromofluoromethane (S)	113	3.342	3.342	(0.800)	83840	49.8563	49.8	
	40 Benzene	78	3.775	3.774	(0.904)	407466	53.4277	53.4	
*	44 Fluorobenzene (IS)	96	4.175	4.175	(1.000)	367262	50.0000		
	45 Trichloroethene	95	4.624	4.624	(1.107)	301198	164.144	164(R)	
	47 1,2-Dichloropropane	63	4.928	4.928	(1.180)	88060	49.8990	49.9	
$	55 Toluene-d8 (S)	98	6.023	6.023	(0.820)	304228	49.6677	49.7	
	56 Toluene	91	6.093	6.092	(0.830)	387944	48.6280	48.6	
	60 Tetrachloroethene	166	6.616	6.616	(0.901)	85278	52.2464	52.2	
*	65 Chlorobenzene-D5 (IS)	117	7.342	7.348	(1.000)	189556	50.0000		
	66 Chlorobenzene	112	7.369	7.369	(1.004)	196113	50.2068	50.2	
	68 Ethylbenzene	106	7.449	7.449	(1.015)	119140	52.3702	52.4	
	69 m&p-Xylene	106	7.545	7.550	(1.028)	285452	103.634	104	
	70 o-Xylene	106	7.807	7.807	(1.063)	128483	51.4911	51.5	
	73 Isopropylbenzene	105	8.053	8.053	(1.097)	354579	53.1797	53.2	
$	74 4-Bromofluorobenzene (S)	95	8.165	8.165	(1.112)	75776	45.5034	45.5	
	76 1,1,2,2-Tetrachloroethane	83	8.256	8.256	(0.934)	56208	51.5773	51.6	

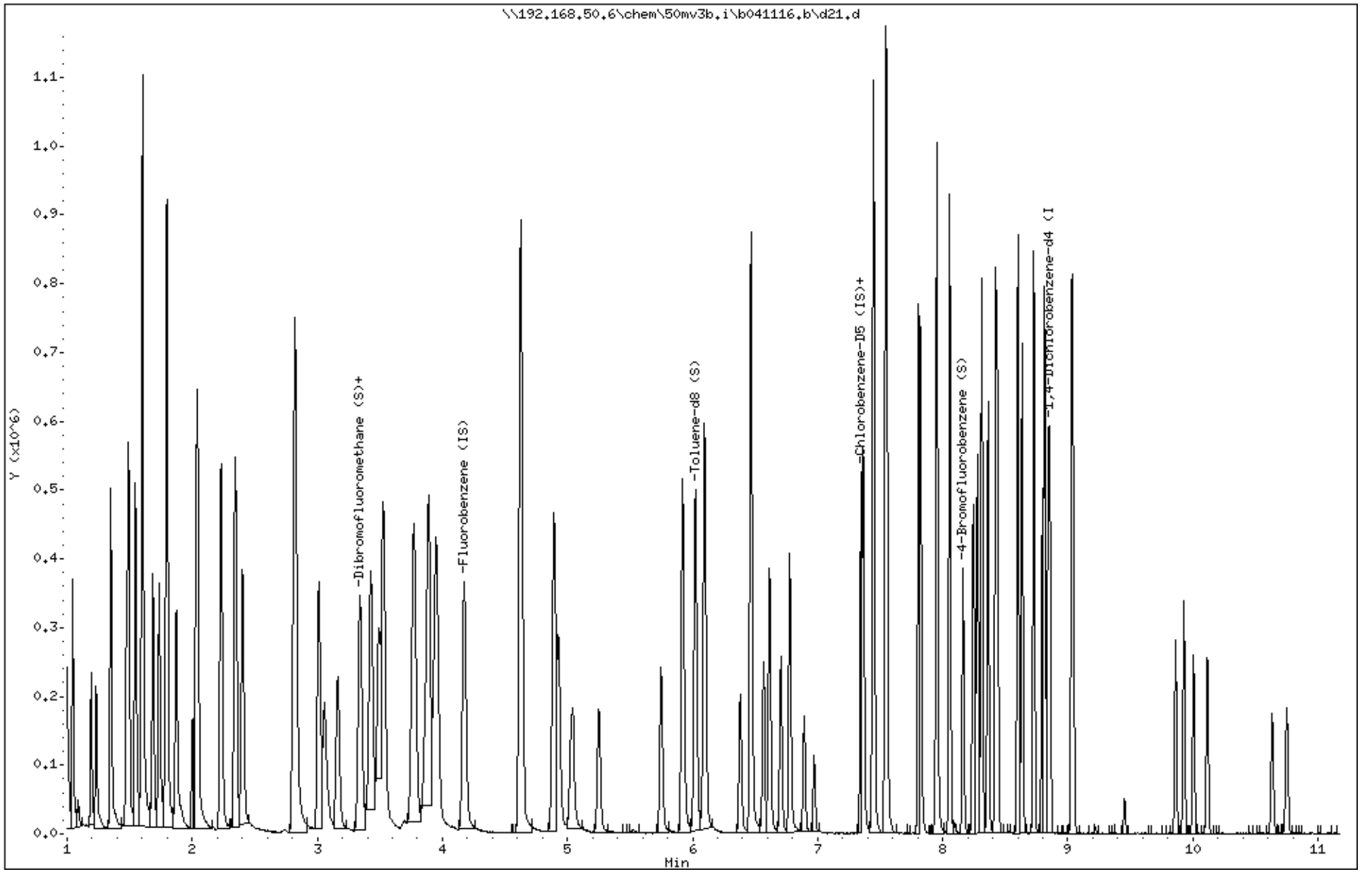
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
84 1,2,4-Trimethylbenzene	105	8.635	8.635	(0.976)	226710	45.8749	45.9	
* 88 1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.843	(1.000)	73225	50.0000		
95 Naphthalene	128	10.002	10.002	(1.131)	135058	48.1010	48.1	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d
Date : 12-APR-2016 09:54
Client ID: MW-0705-S1(033016)P
Sample Info: 1516504,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3b.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

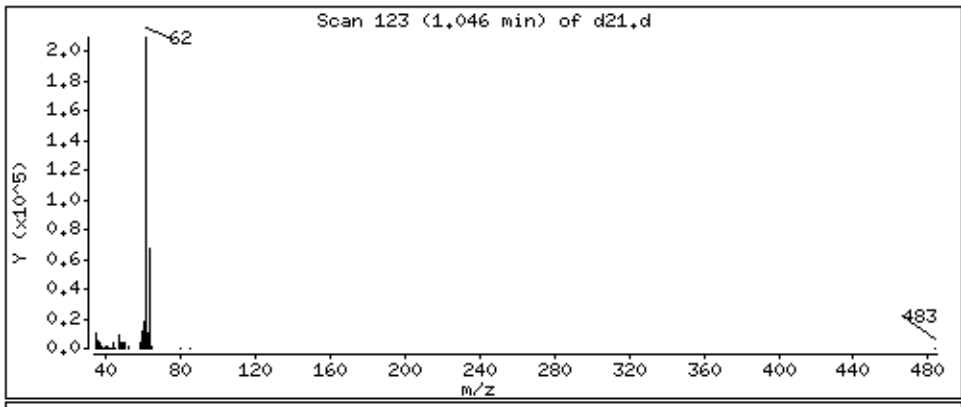
Column phase: DB-624

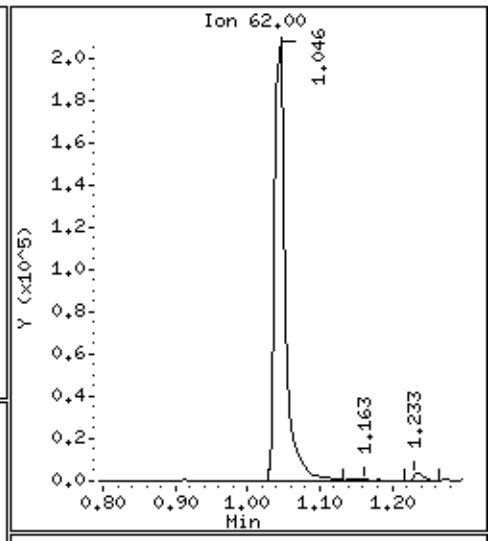
Column diameter: 0.18

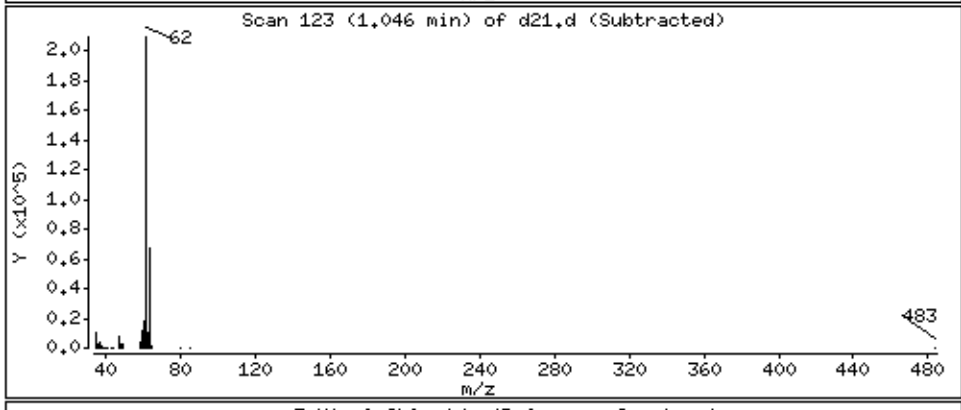
3 Vinyl Chloride

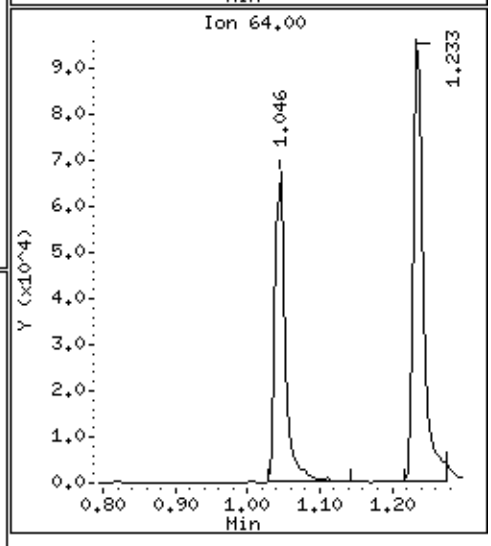
Concentration: 52.7 ppb

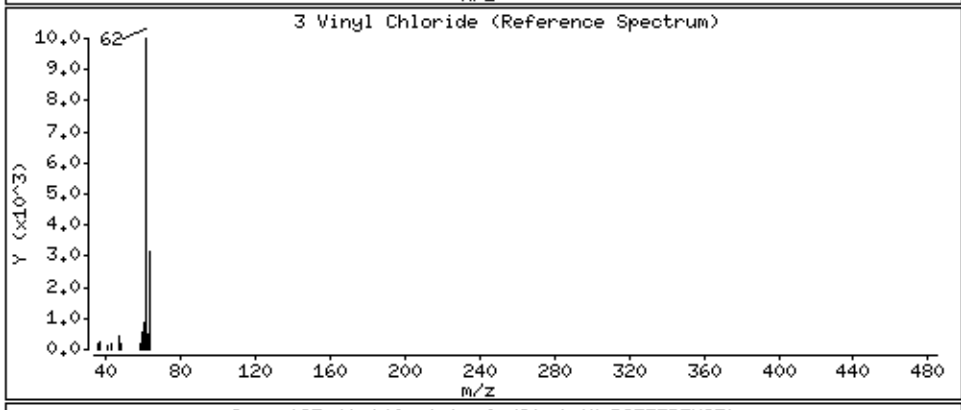
Review Code:

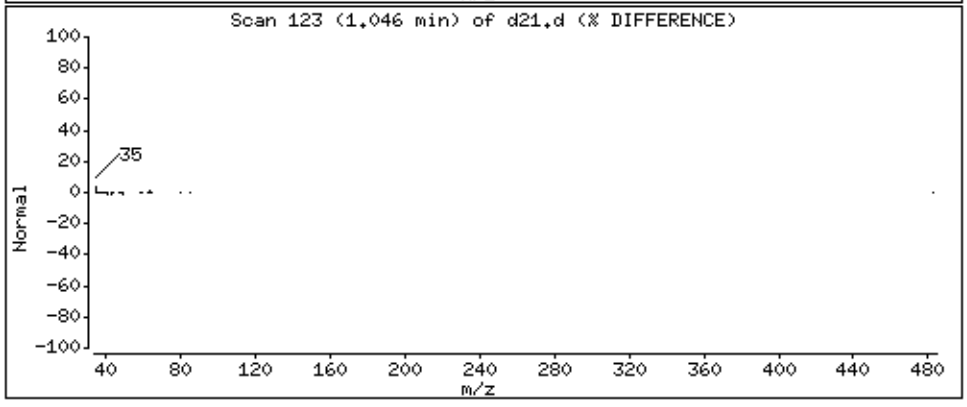












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

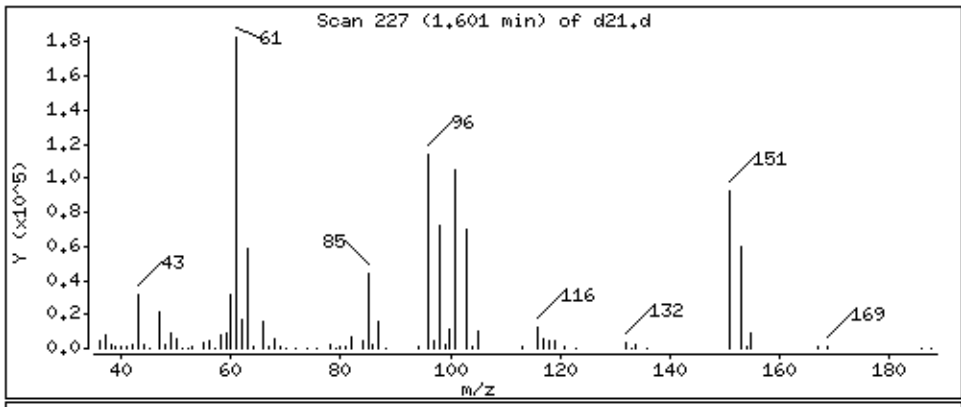
Column phase: DB-624

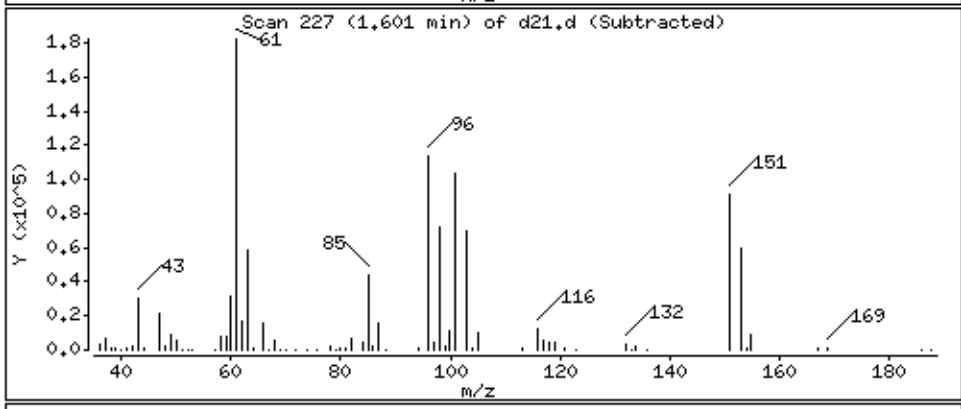
Column diameter: 0.18

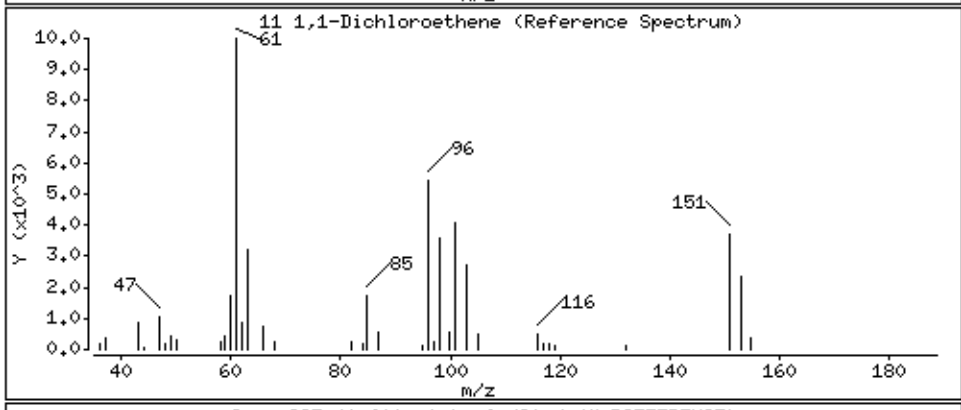
11 1,1-Dichloroethene

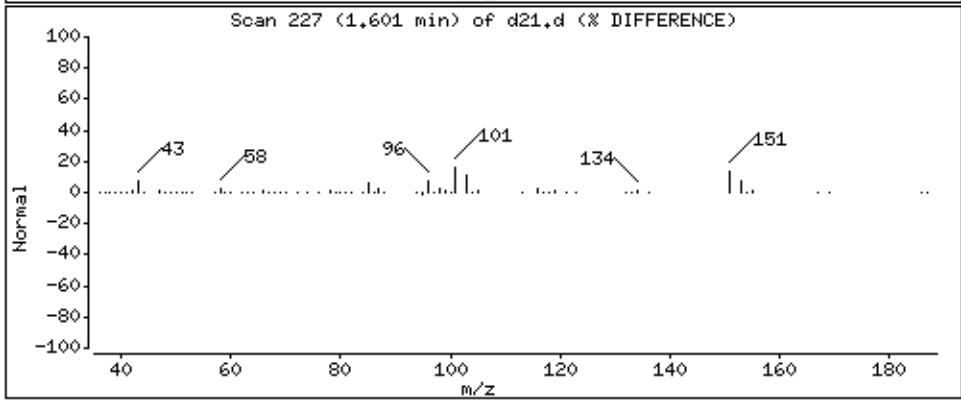
Concentration: 53.7 ppb

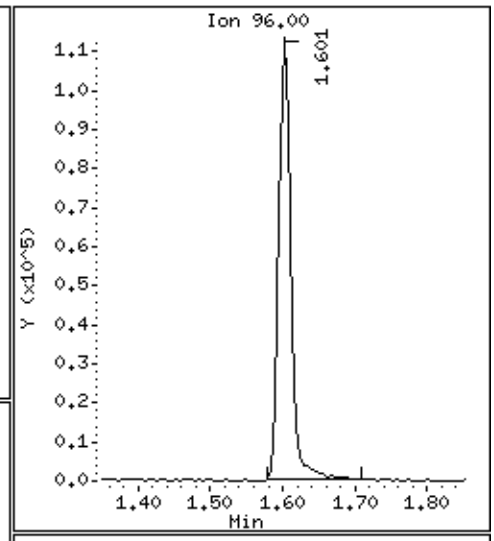
Review Code:

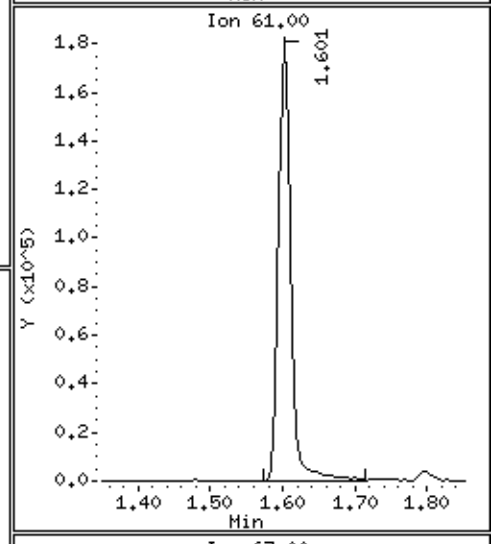


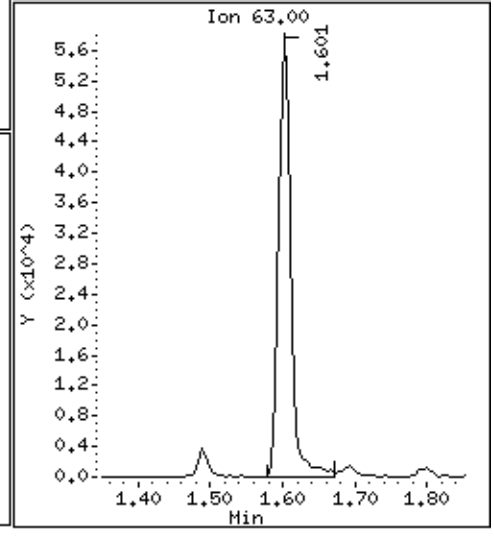












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

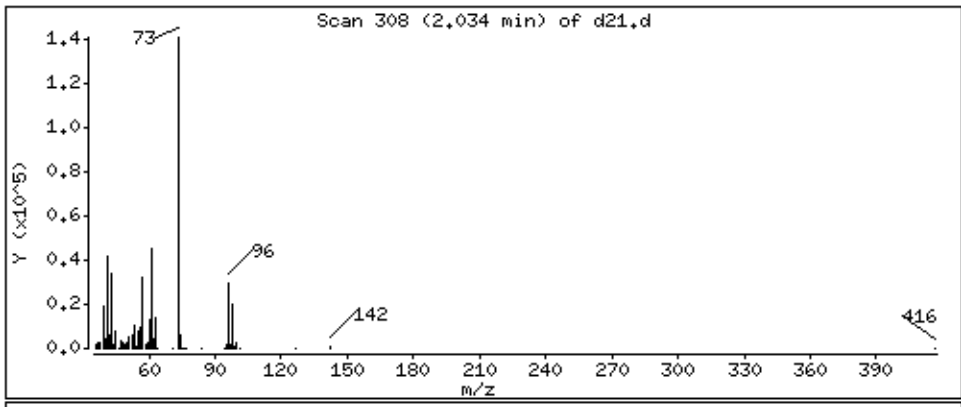
Column phase: DB-624

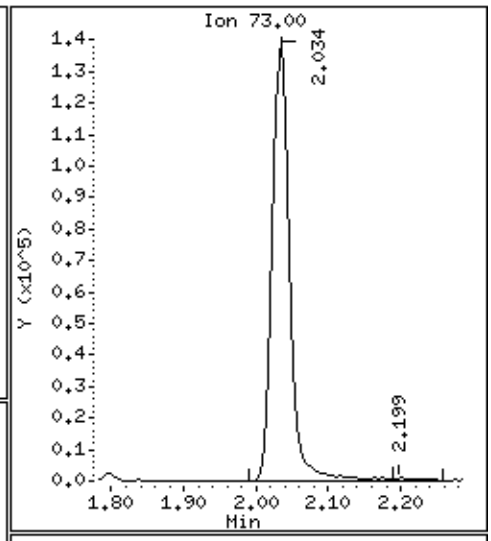
Column diameter: 0.18

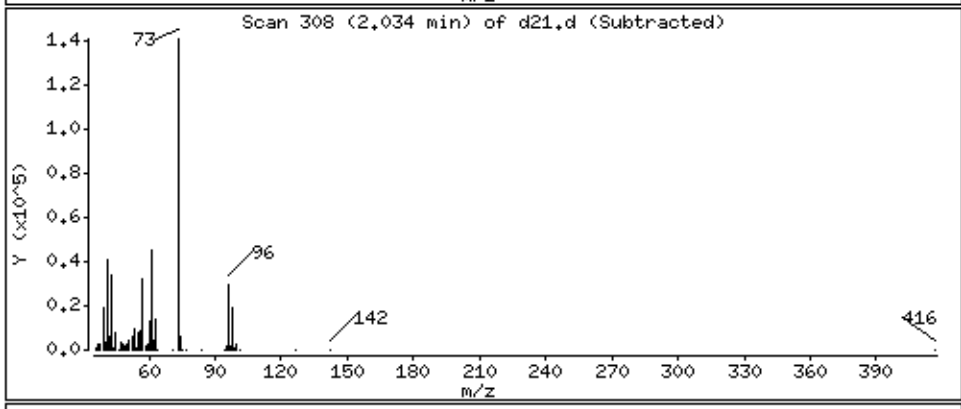
21 Methyl-tert-butyl ether

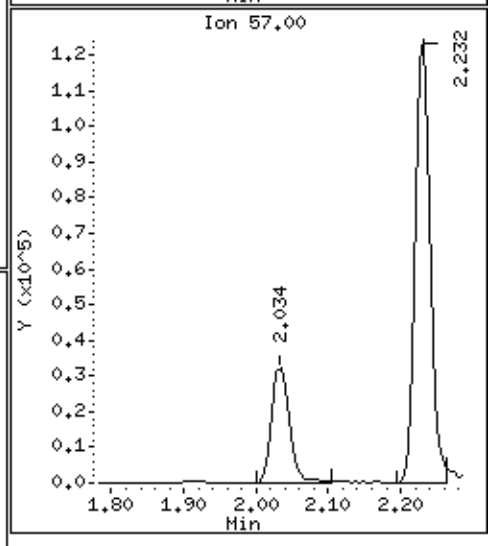
Concentration: 54.0 ppb

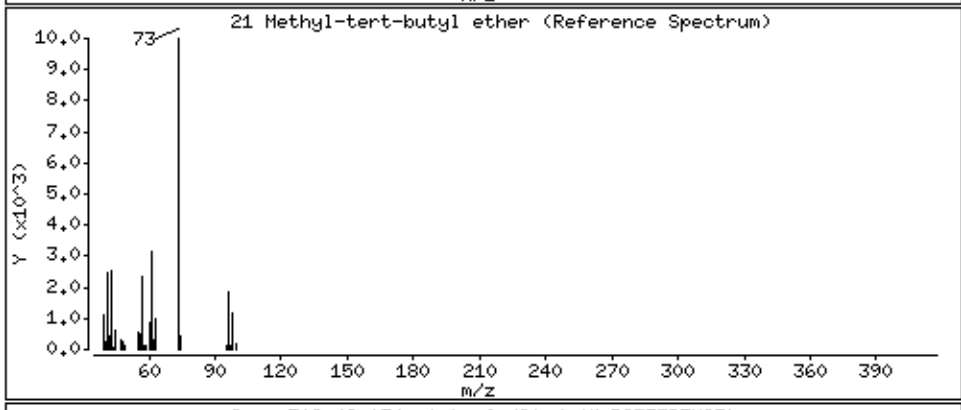
Review Code:

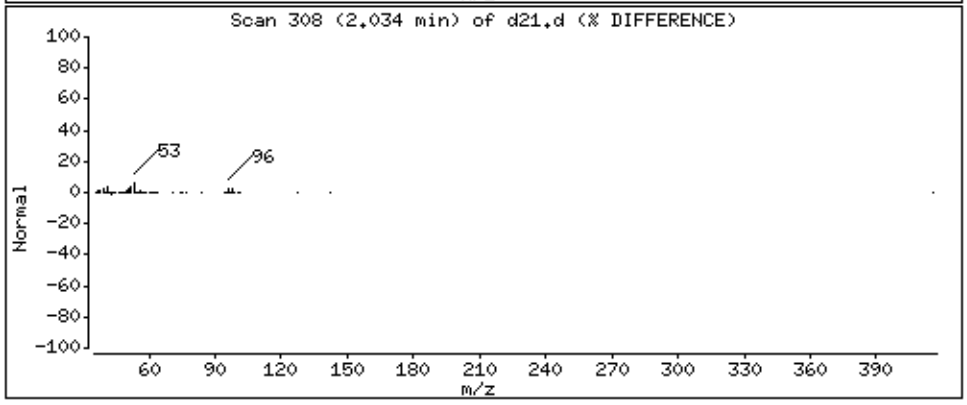












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

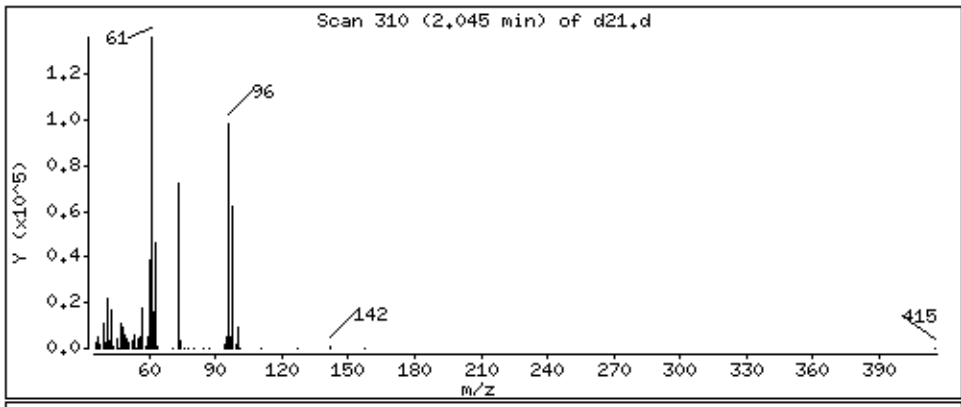
Column phase: DB-624

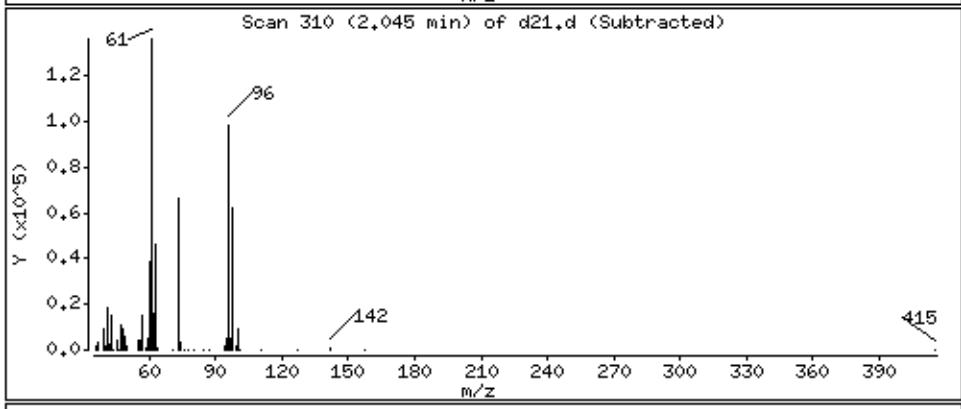
Column diameter: 0.18

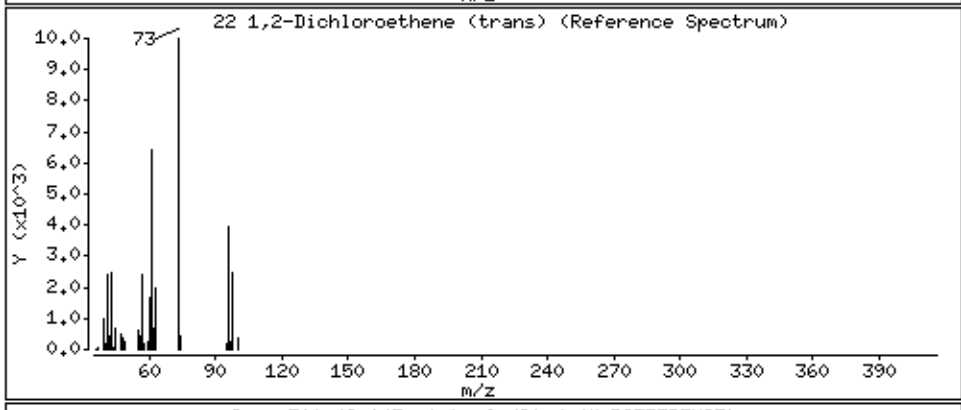
22 1,2-Dichloroethene (trans)

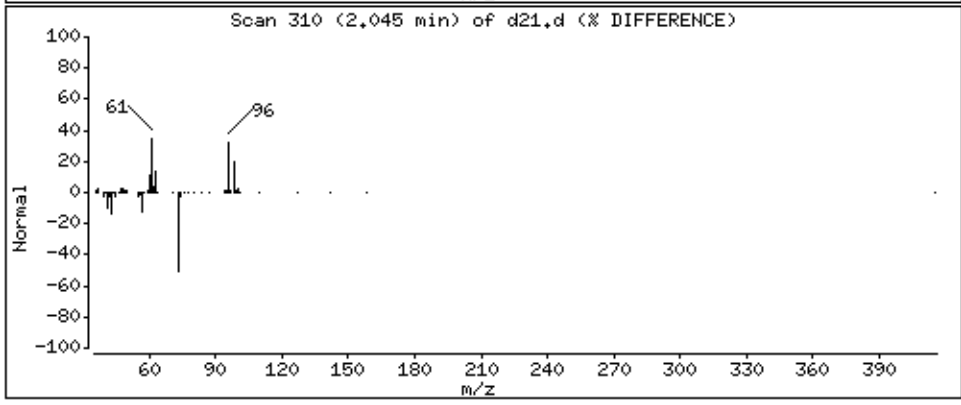
Concentration: 62.4 ppb

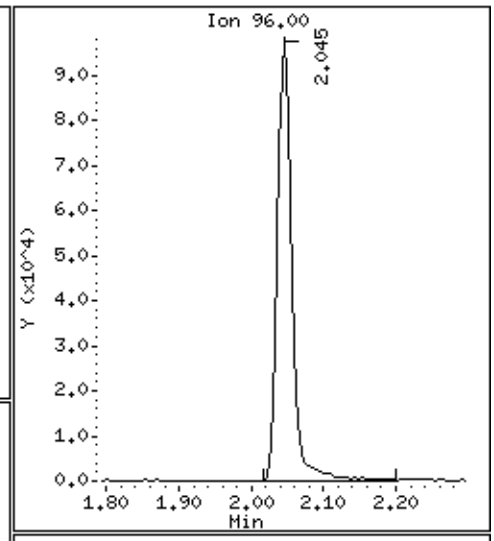
Review Code:

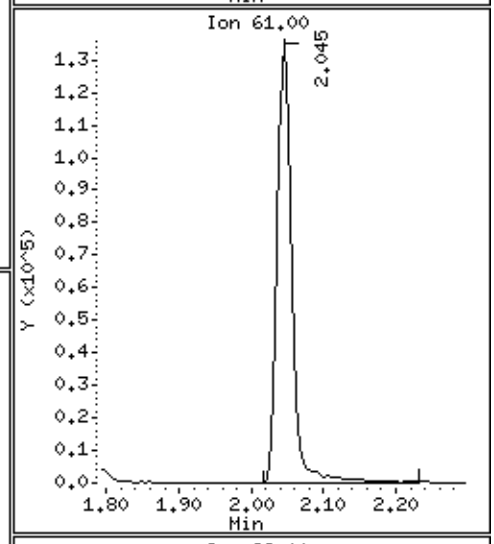


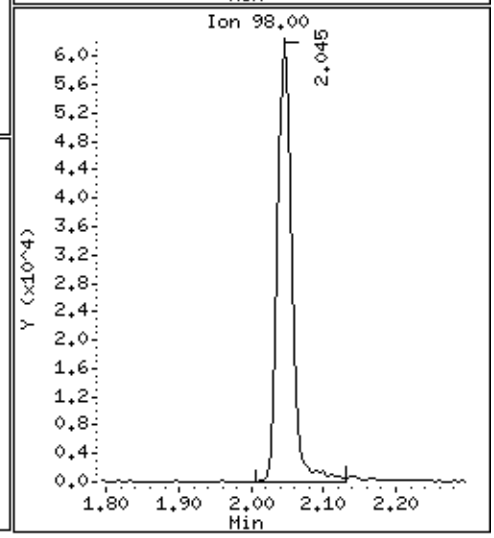












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

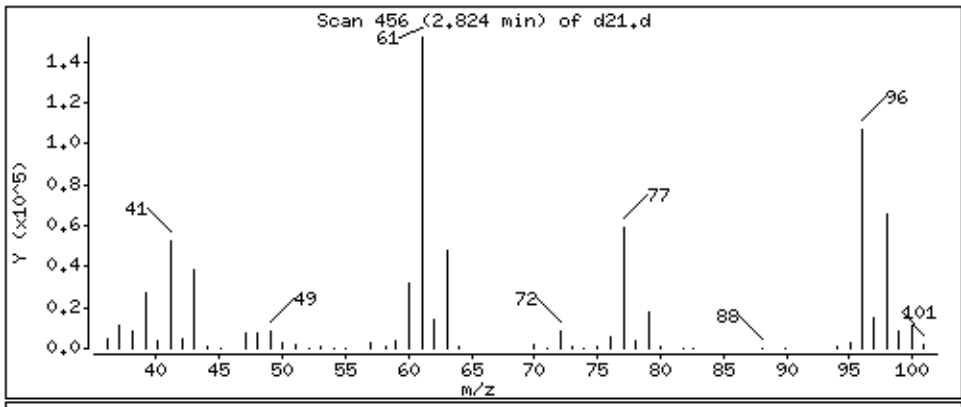
Column phase: DB-624

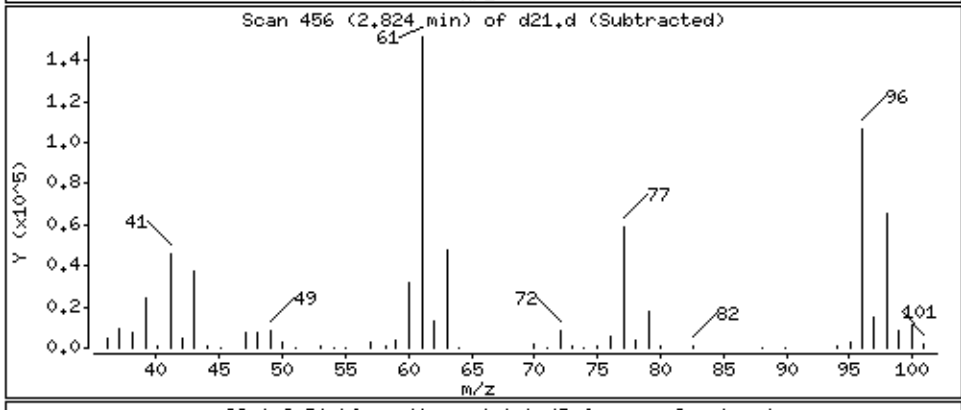
Column diameter: 0.18

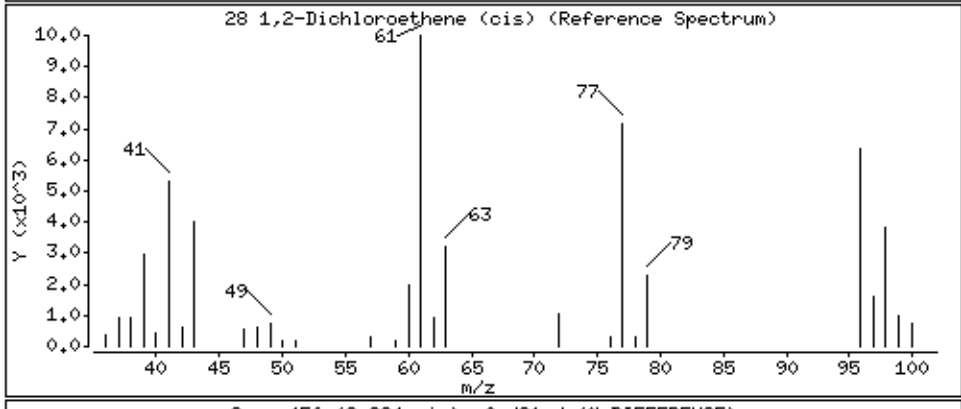
28 1,2-Dichloroethene (cis)

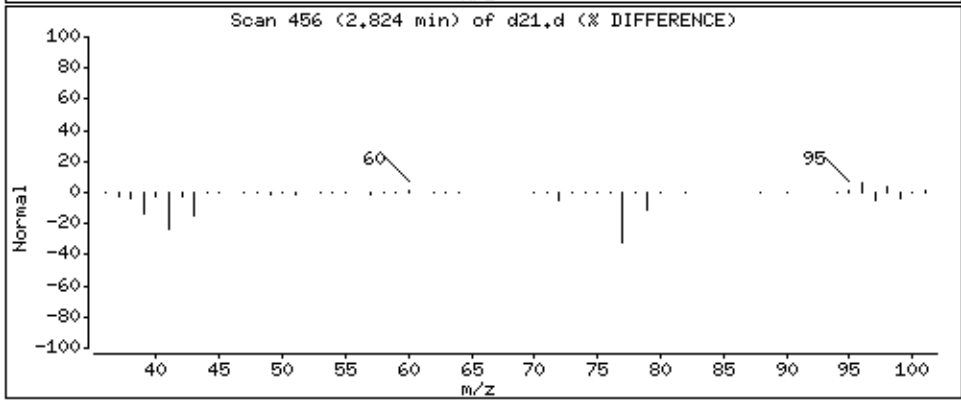
Concentration: 96.8 ppb

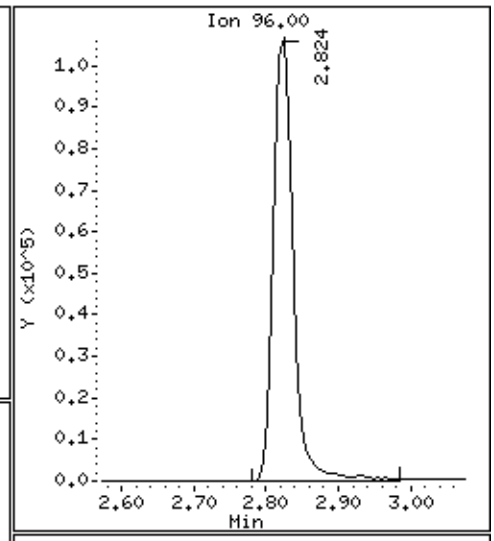
Review Code:

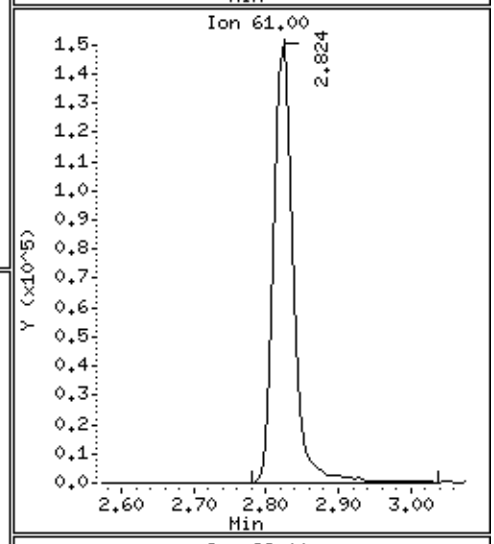


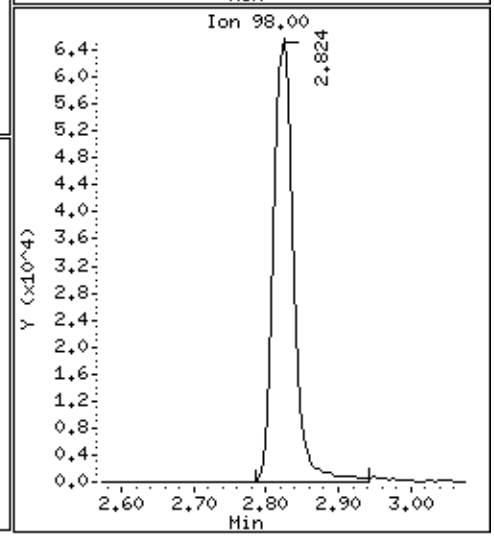












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

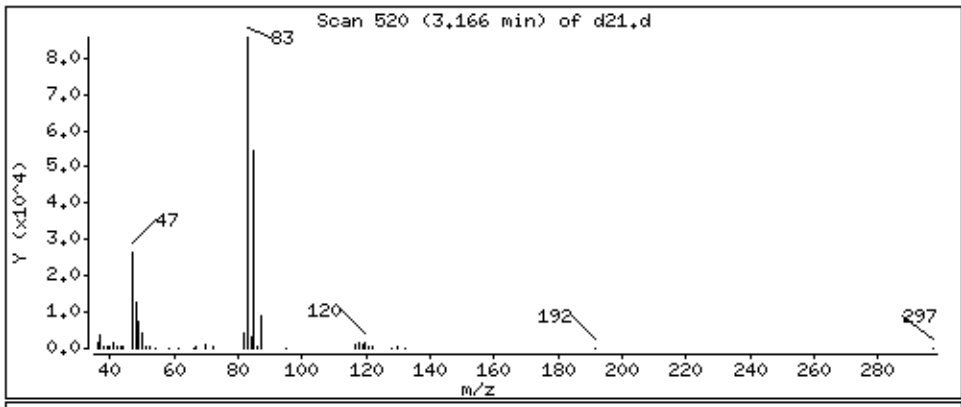
Column phase: DB-624

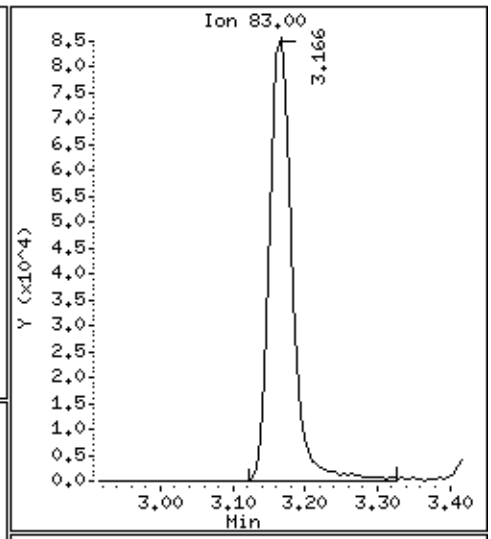
Column diameter: 0.18

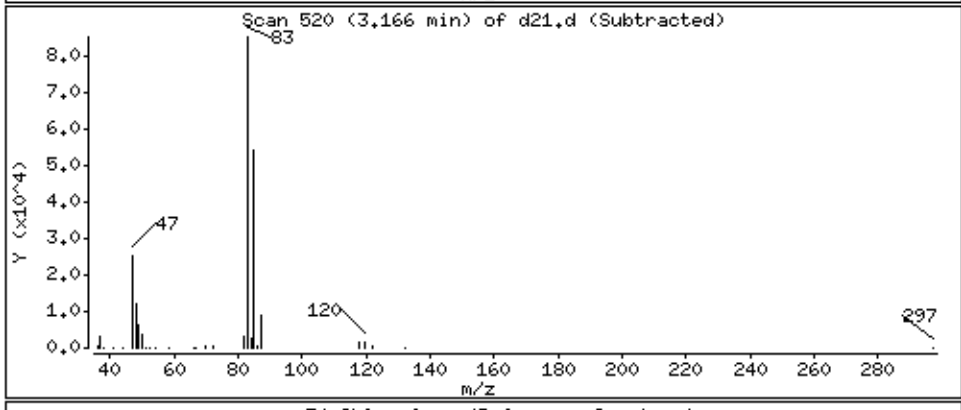
34 Chloroform

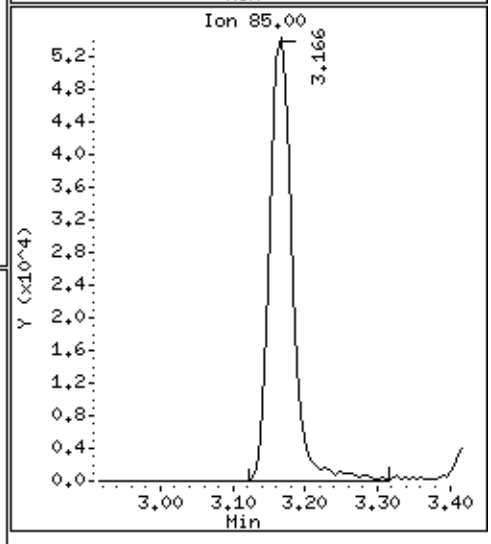
Concentration: 54.8 ppb

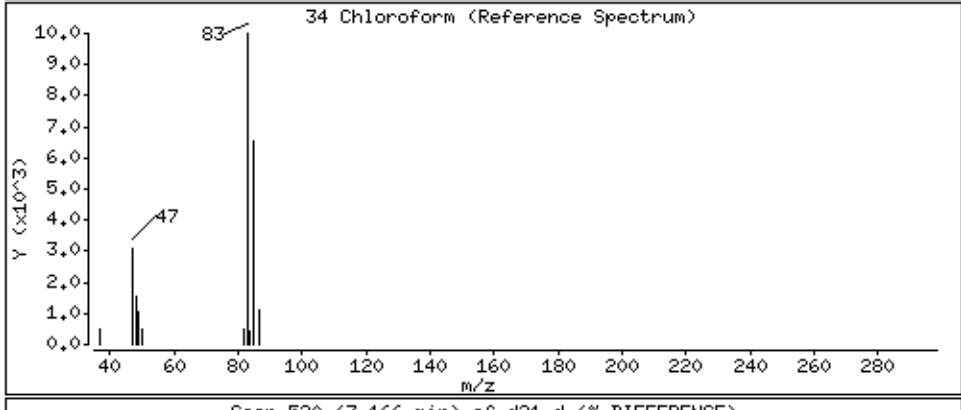
Review Code:

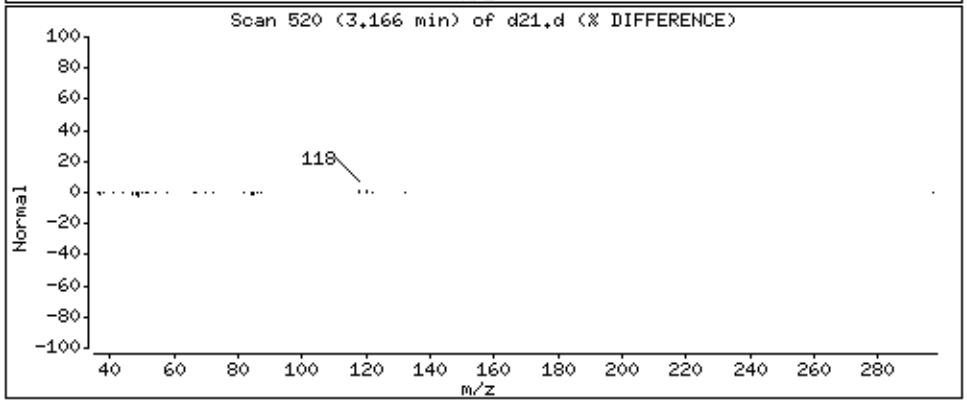












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

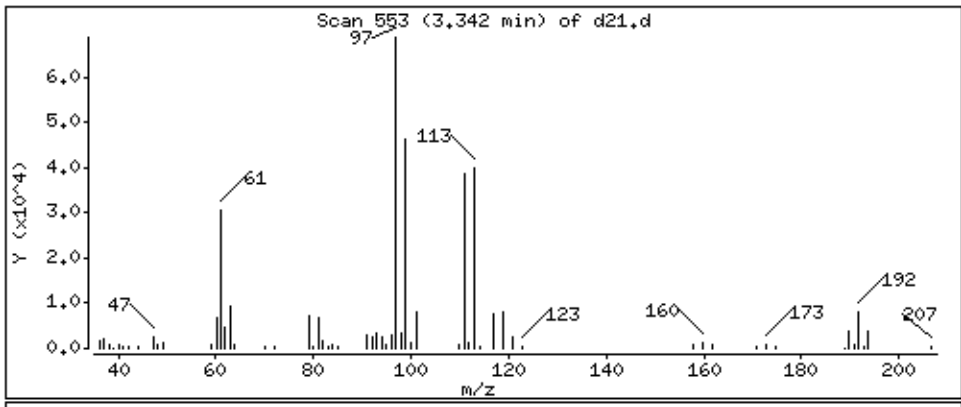
Column phase: DB-624

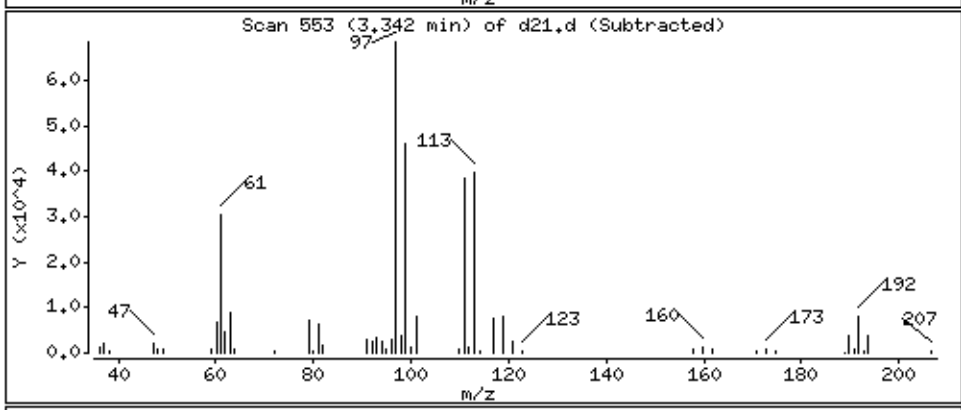
Column diameter: 0.18

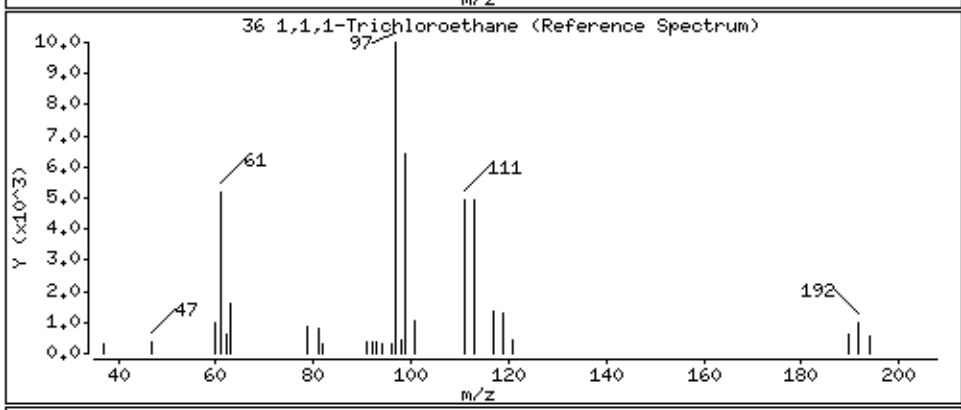
36 1,1,1-Trichloroethane

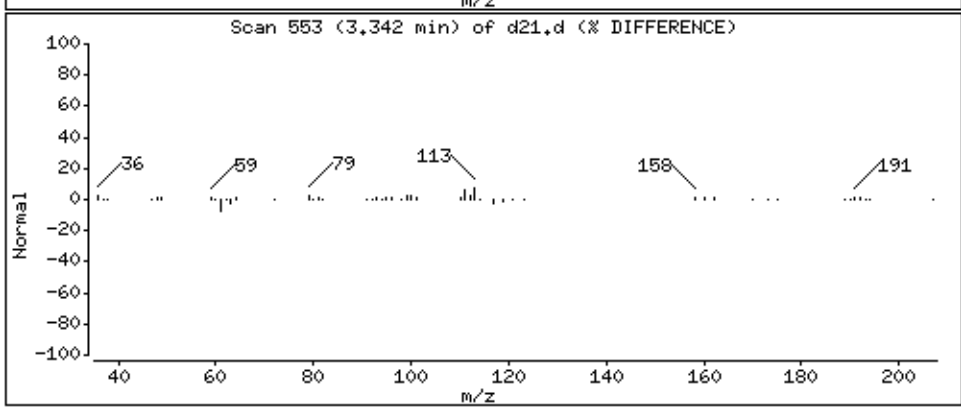
Concentration: 56.3 ppb

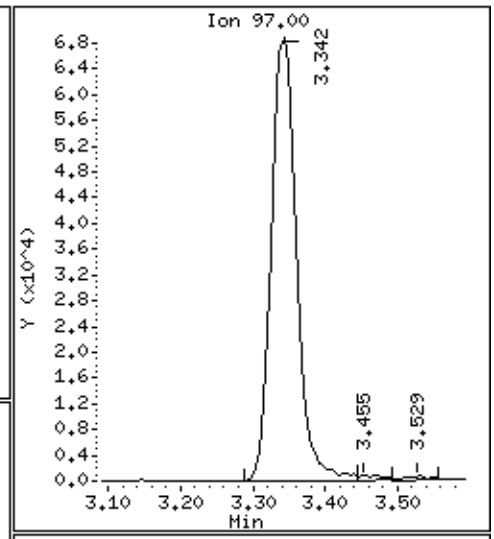
Review Code:

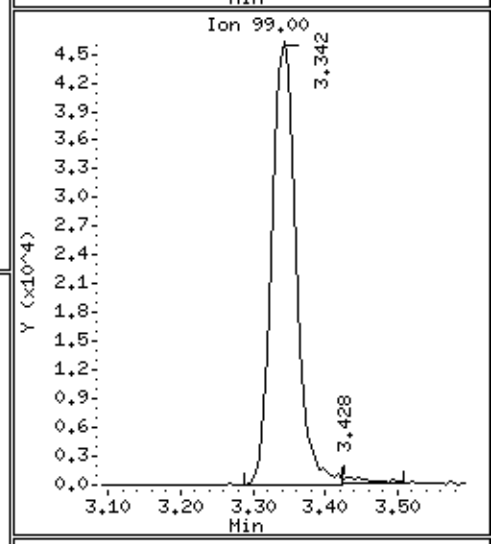


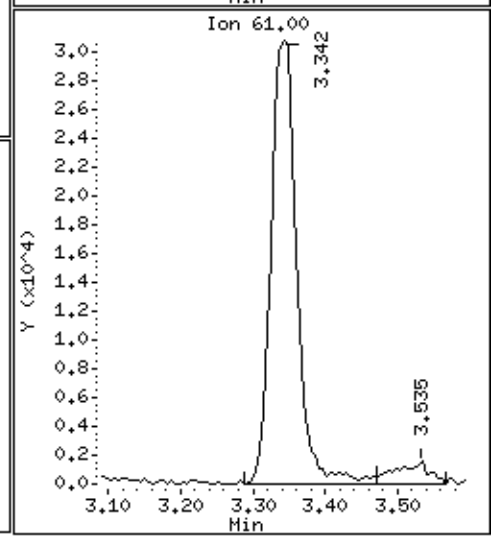












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Page 11

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

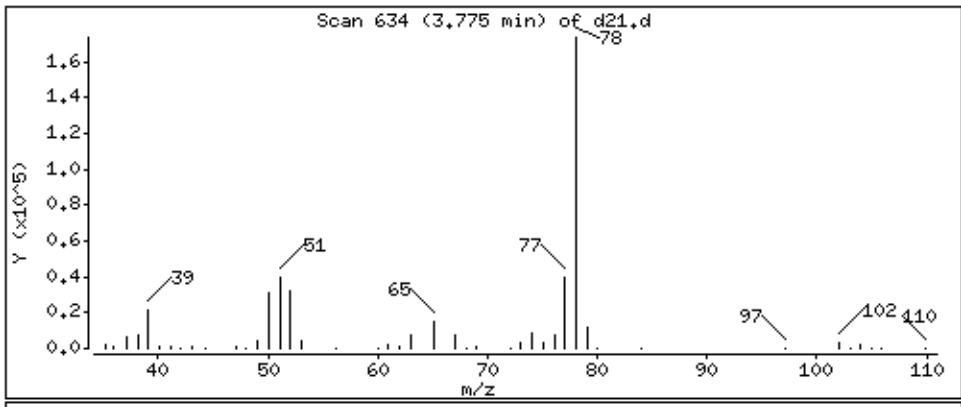
Column phase: DB-624

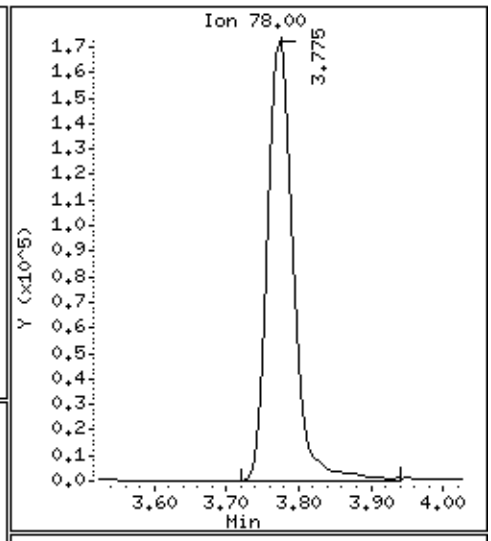
Column diameter: 0.18

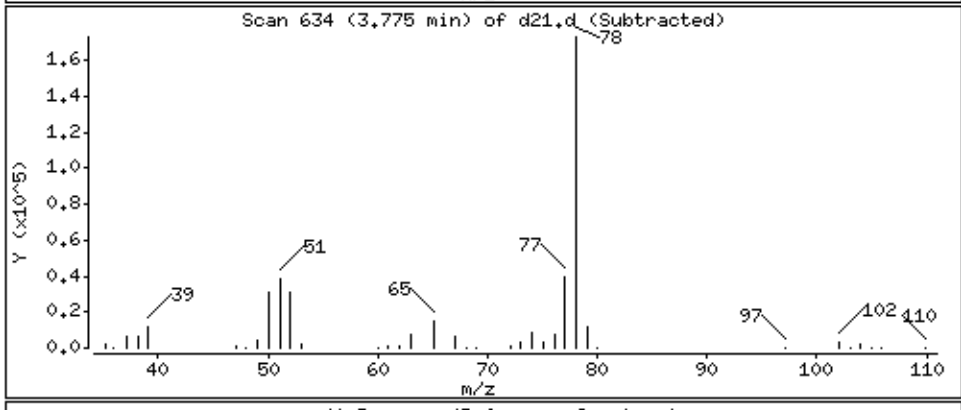
40 Benzene

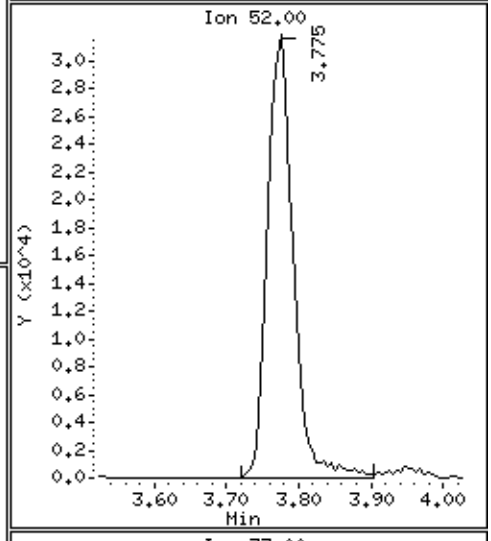
Concentration: 53.4 ppb

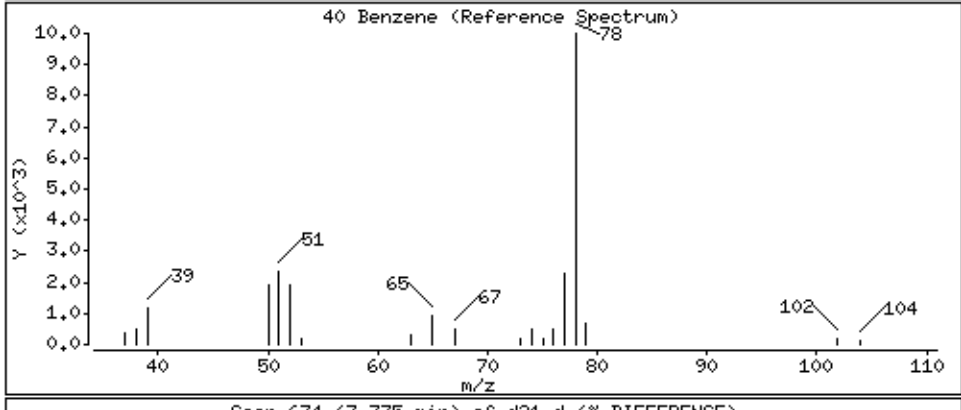
Review Code:

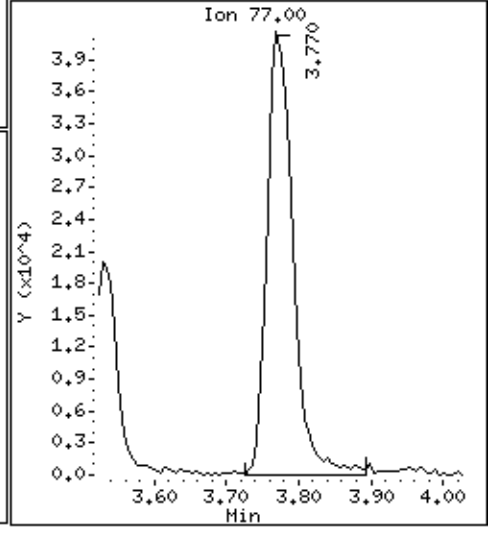


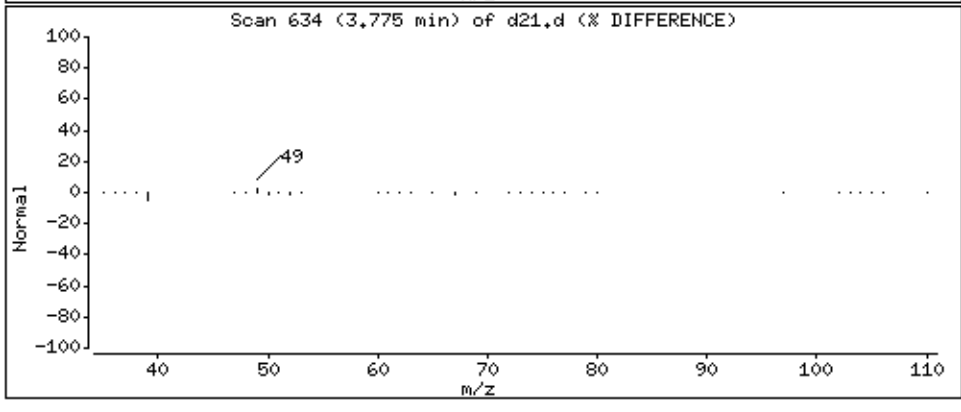












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

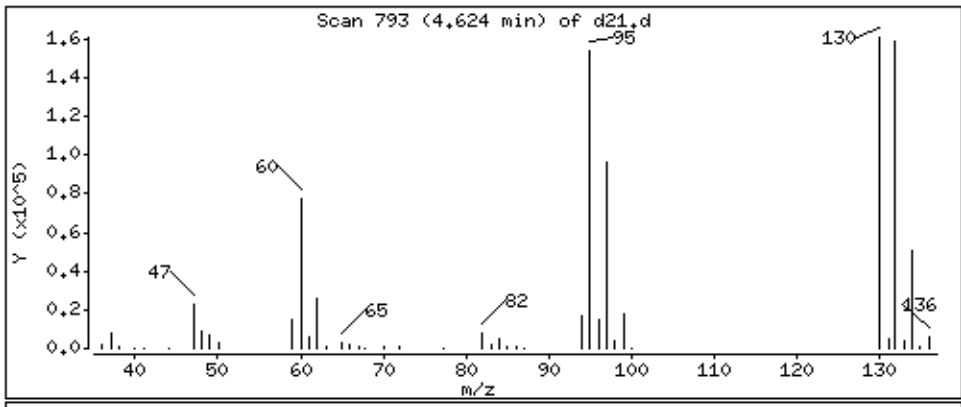
Column phase: DB-624

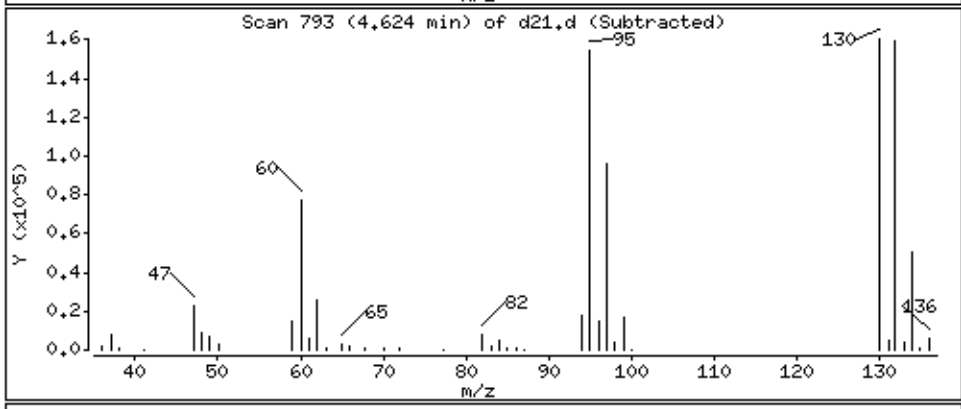
Column diameter: 0.18

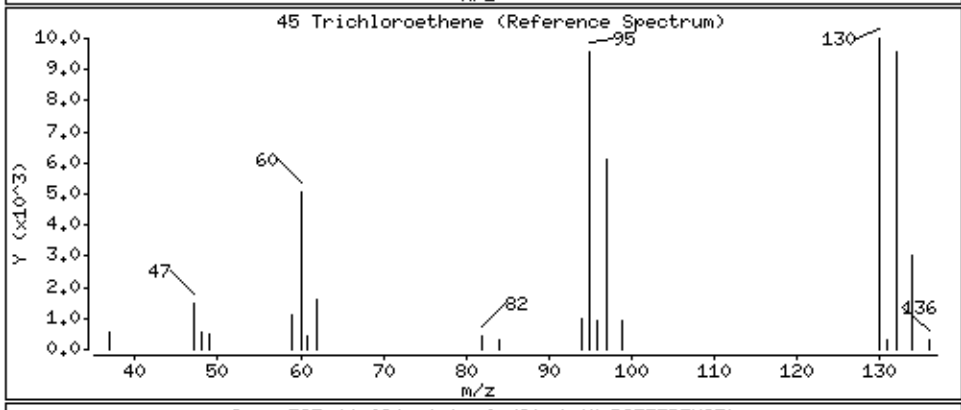
45 Trichloroethene

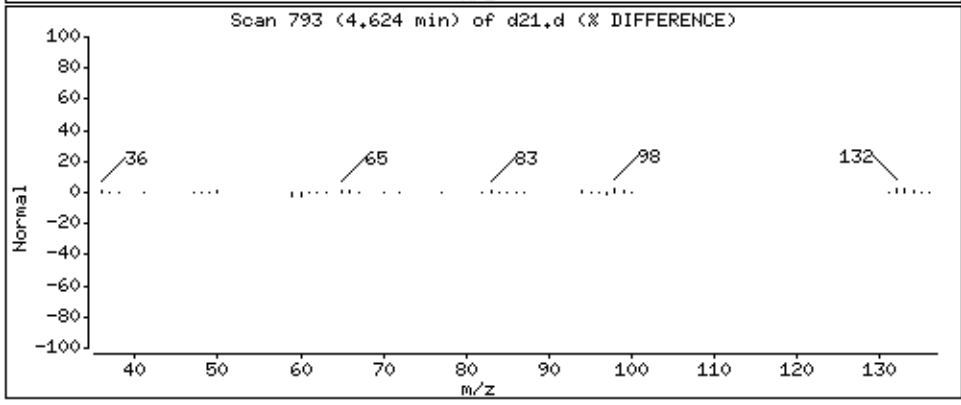
Concentration: 164 ppb

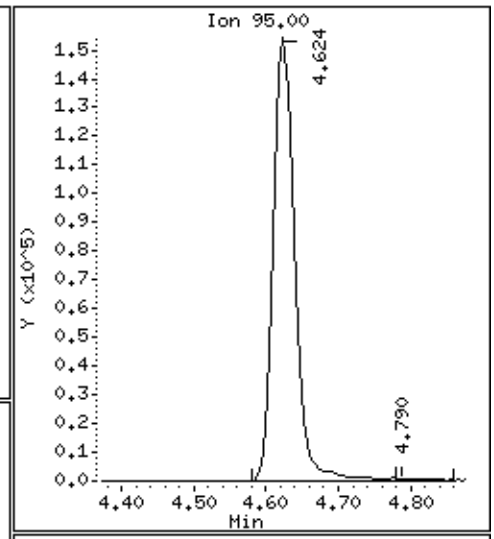
Review Code:

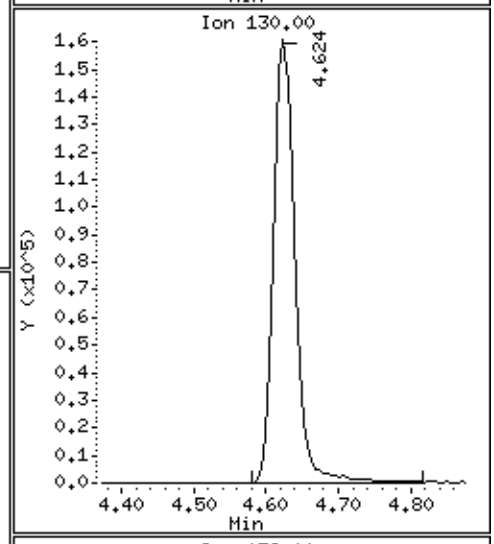


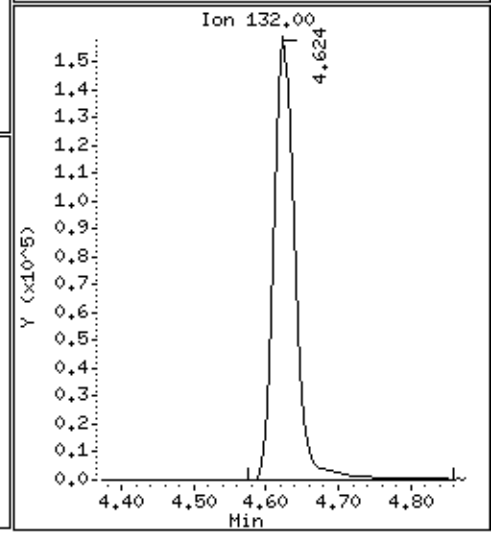












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

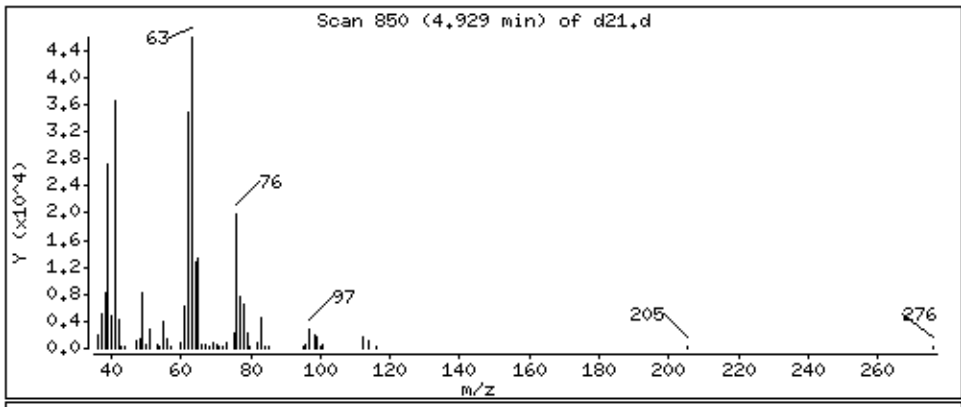
Column phase: DB-624

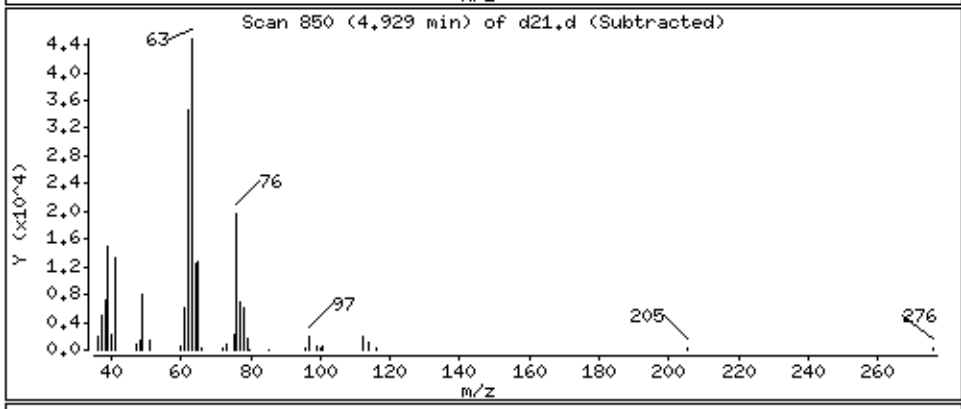
Column diameter: 0.18

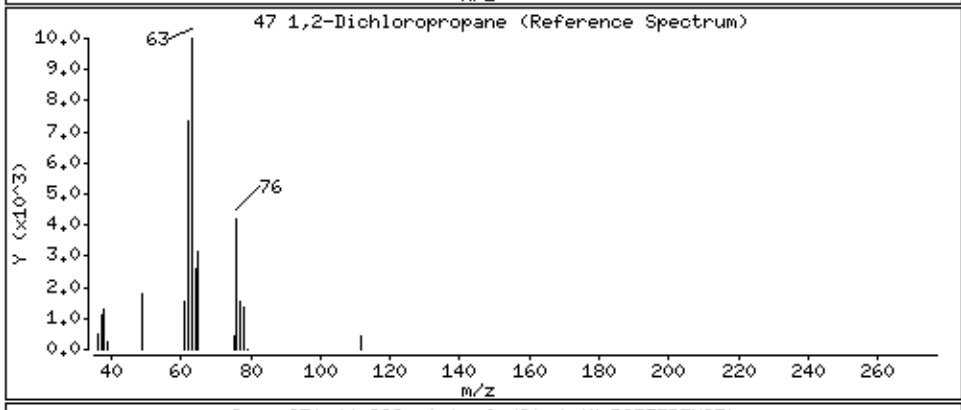
47 1,2-Dichloropropane

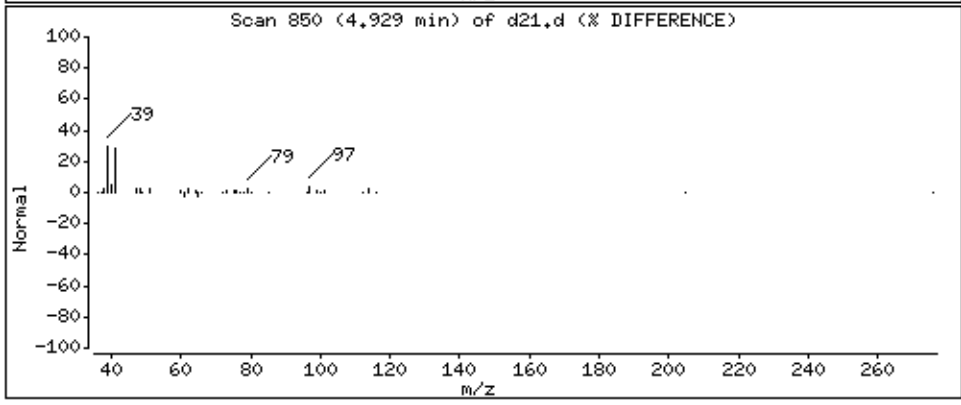
Concentration: 49.9 ppb

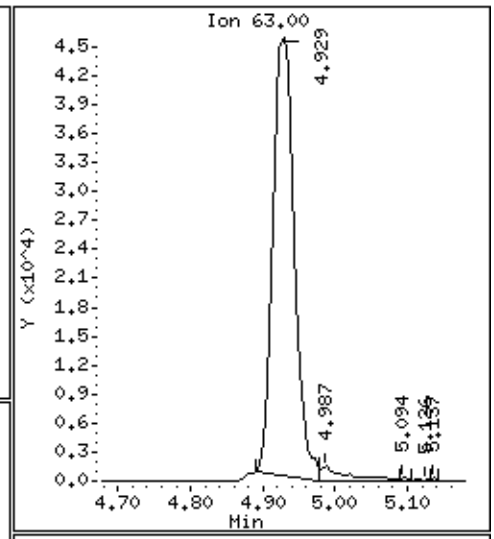
Review Code:

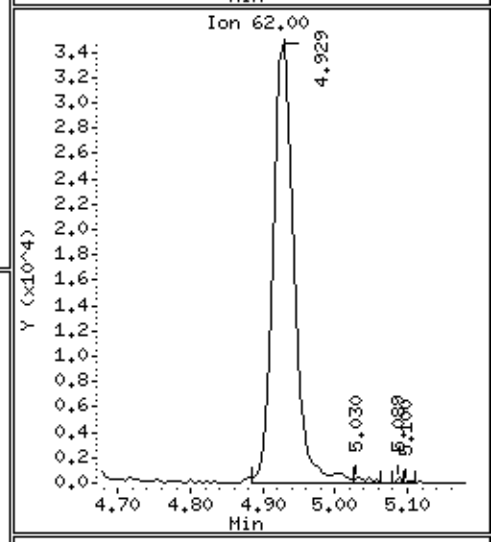


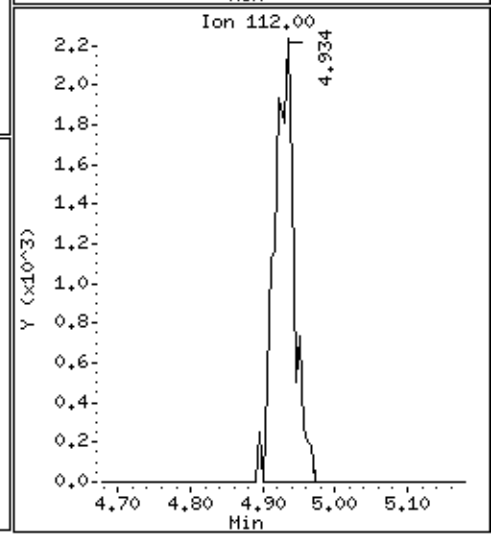












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

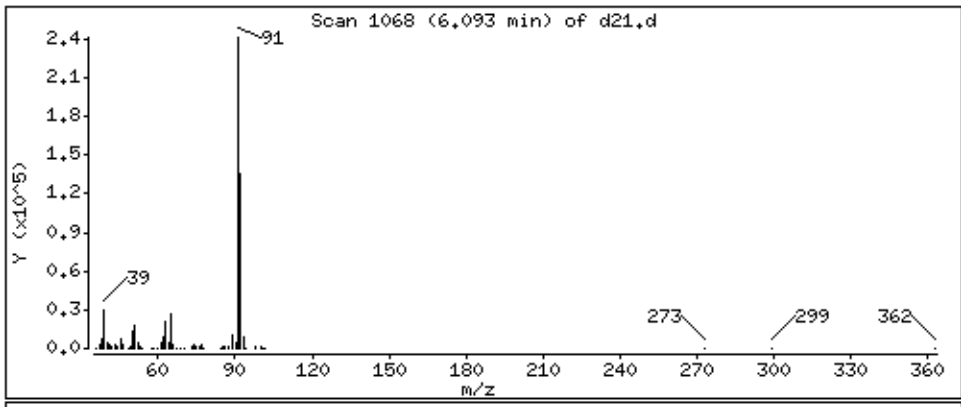
Column phase: DB-624

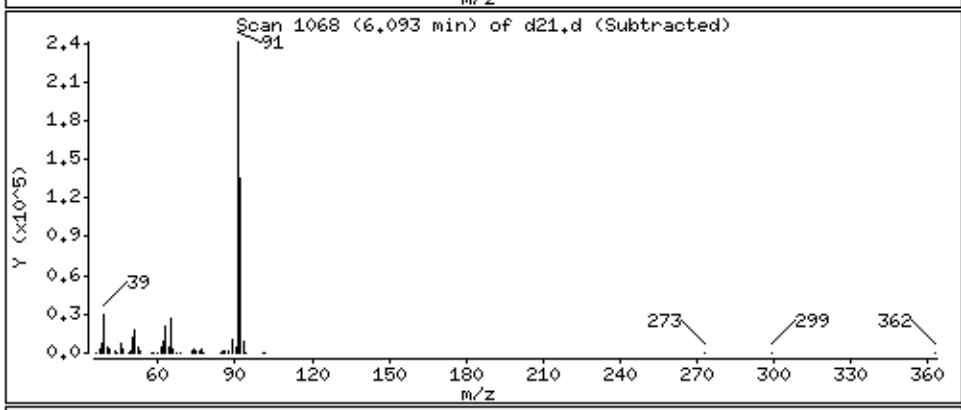
Column diameter: 0.18

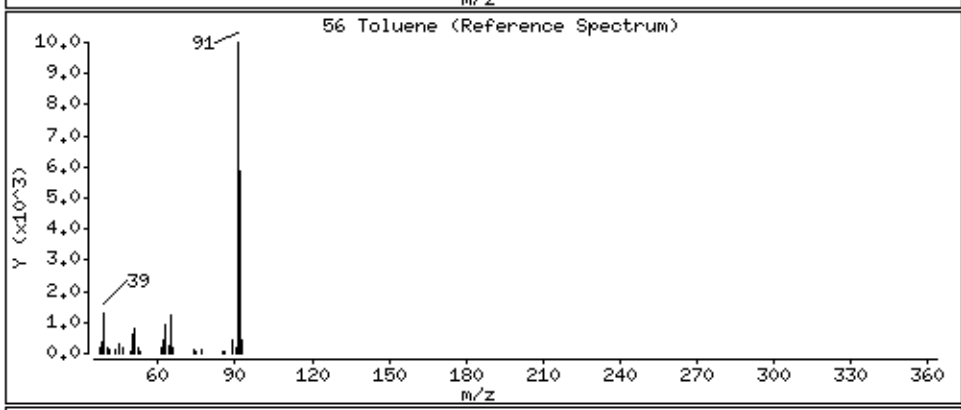
56 Toluene

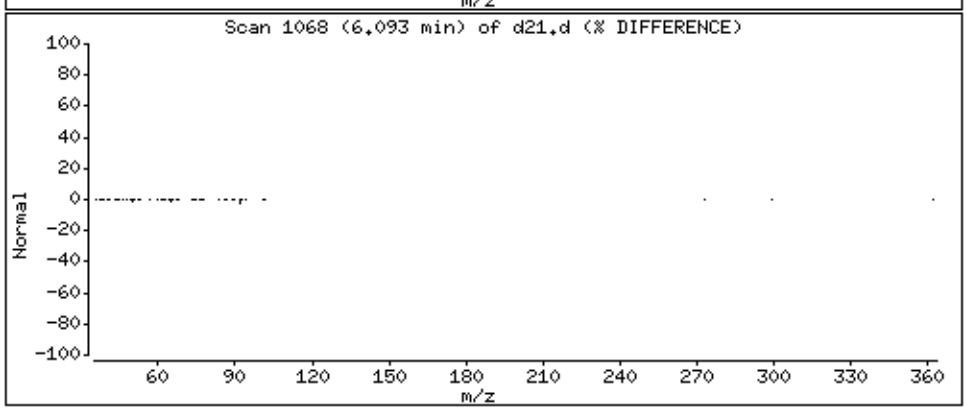
Concentration: 48.6 ppb

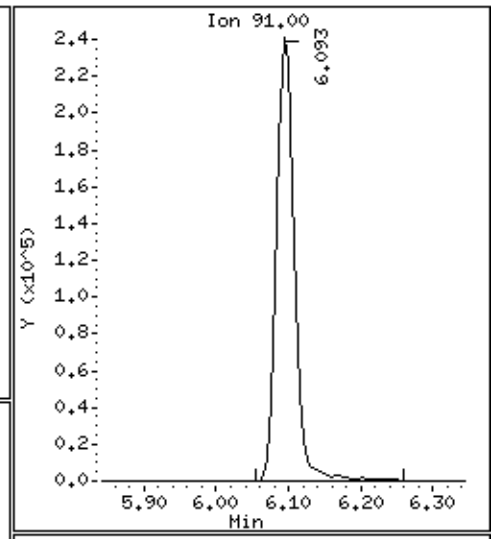
Review Code:

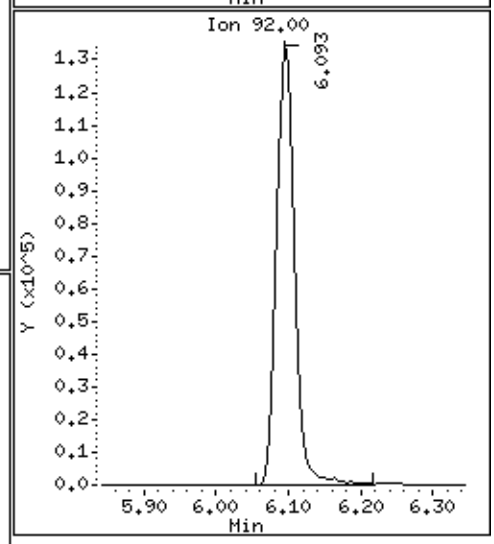












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

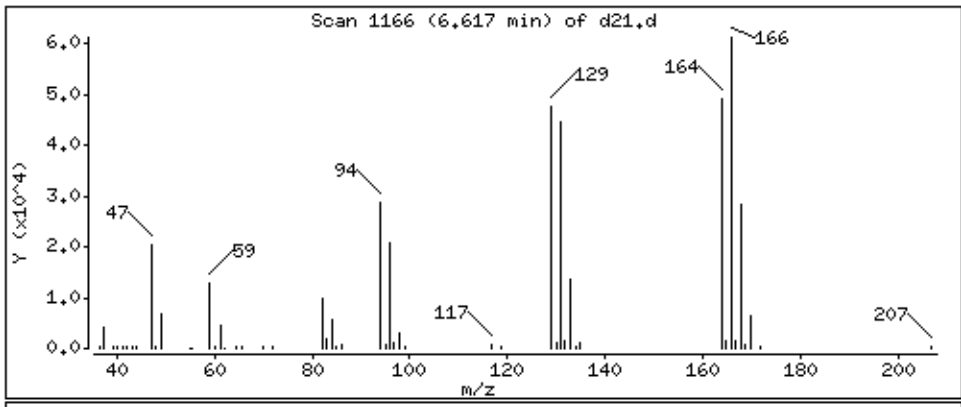
Column phase: DB-624

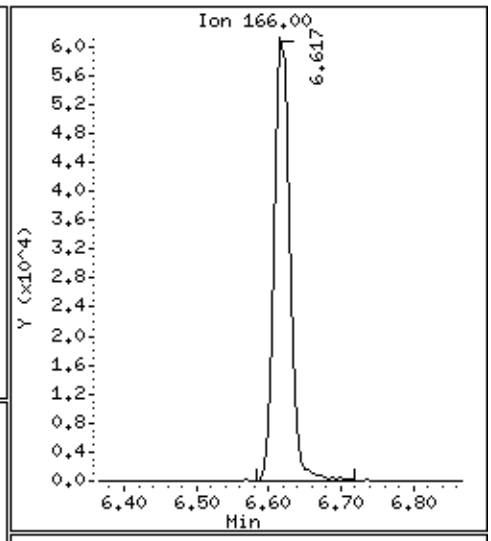
Column diameter: 0.18

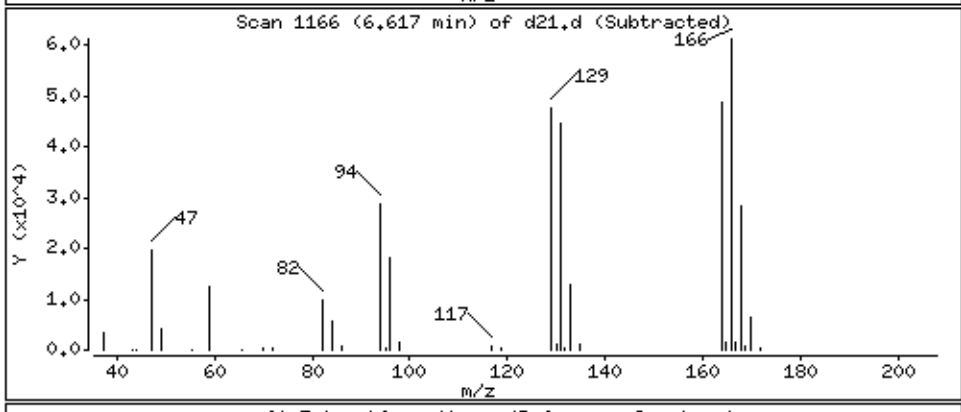
60 Tetrachloroethene

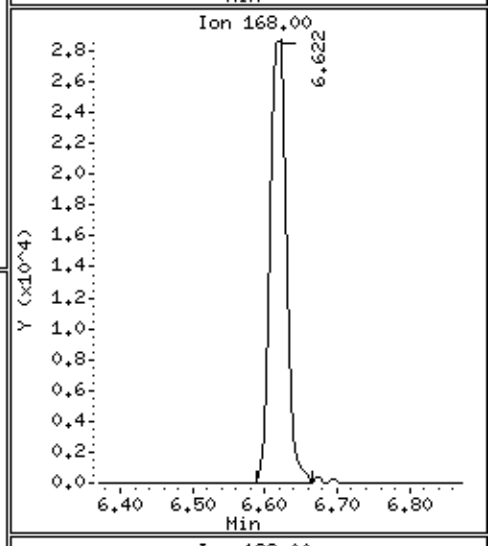
Concentration: 52.2 ppb

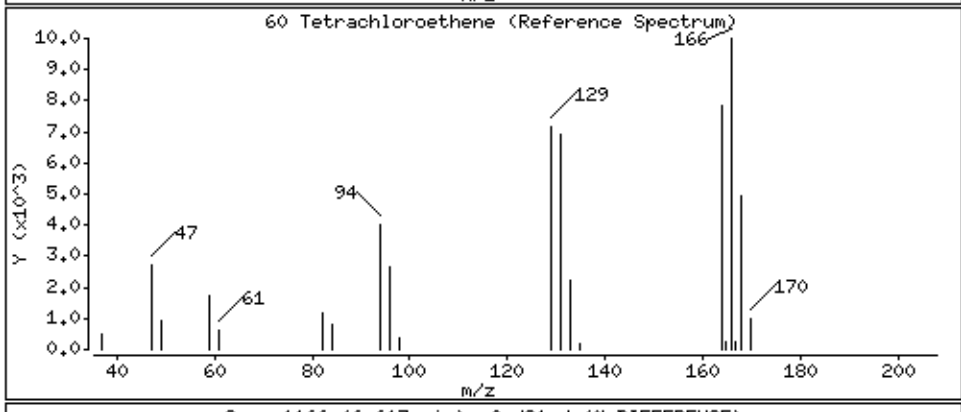
Review Code:

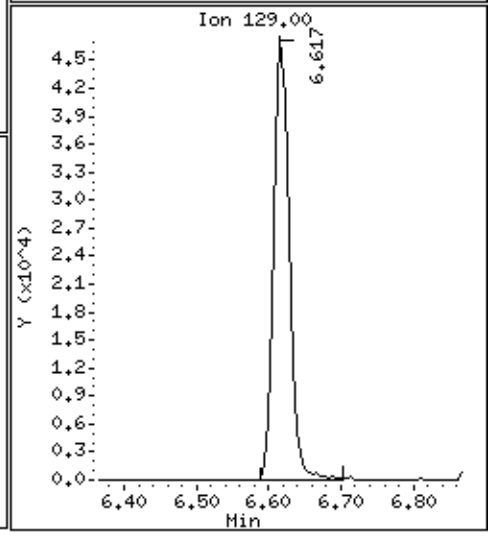


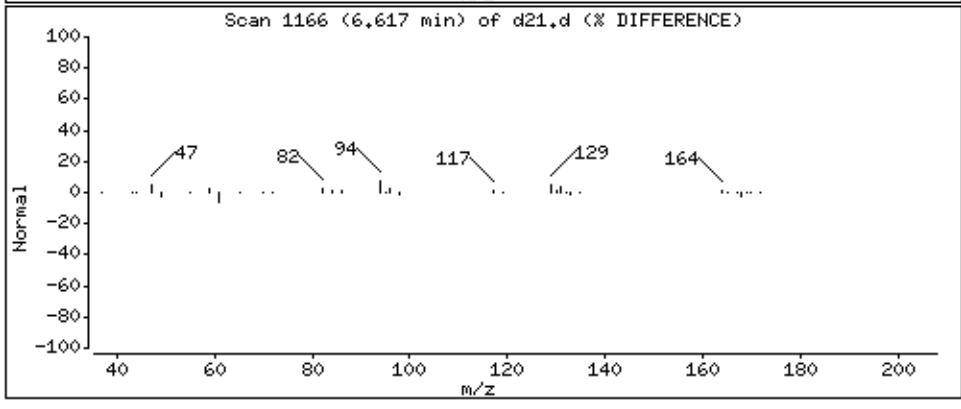












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

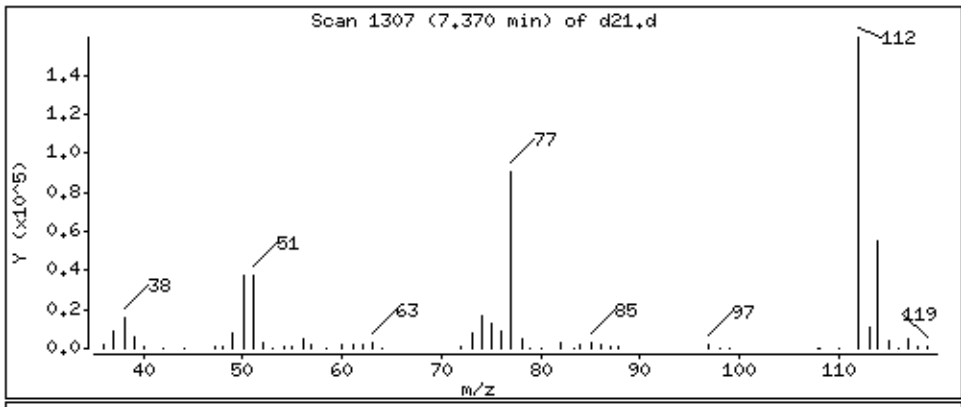
Column phase: DB-624

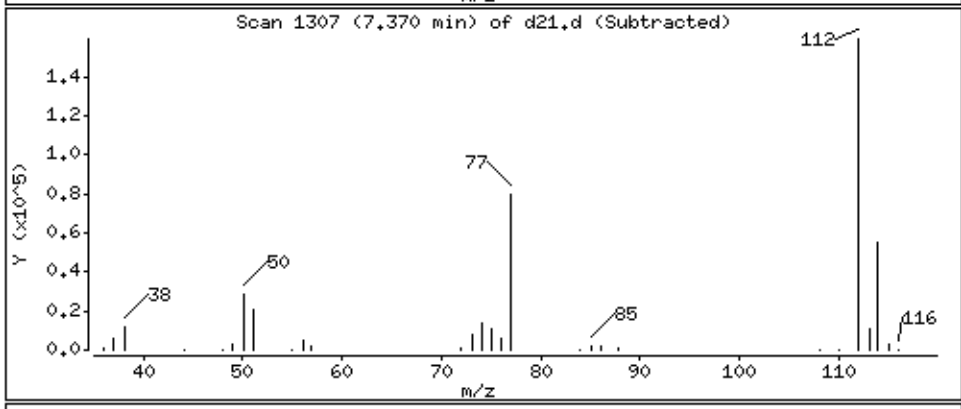
Column diameter: 0.18

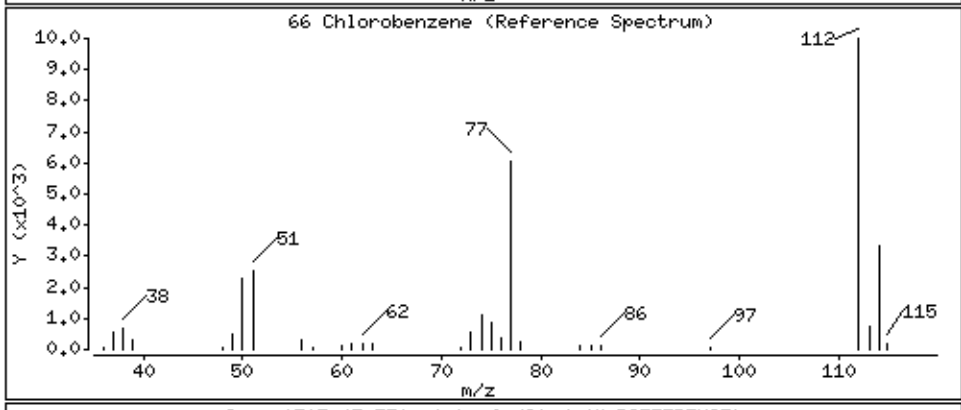
66 Chlorobenzene

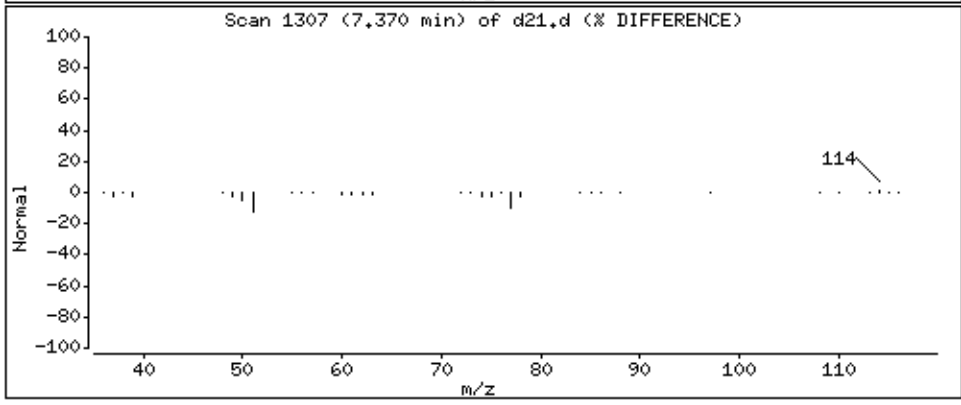
Concentration: 50.2 ppb

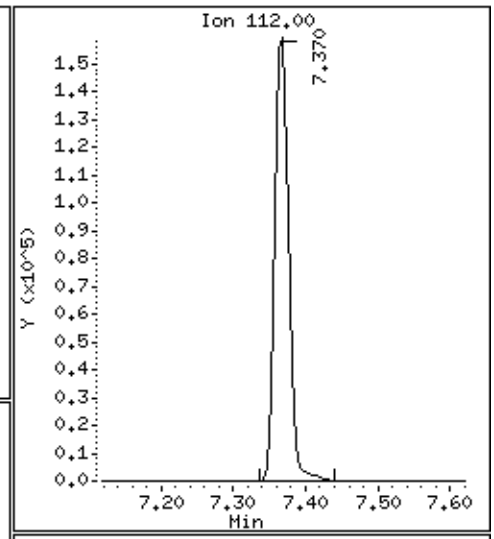
Review Code:

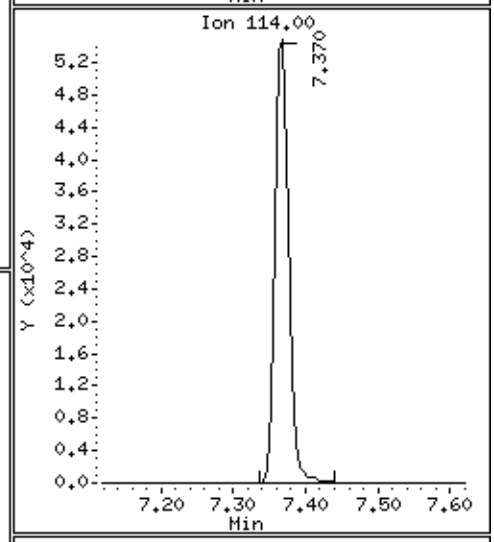


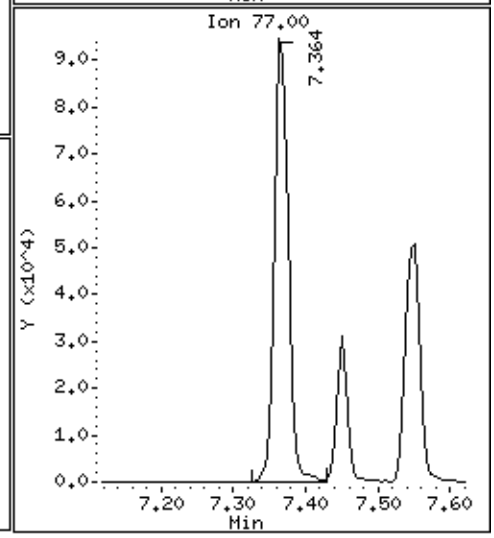












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

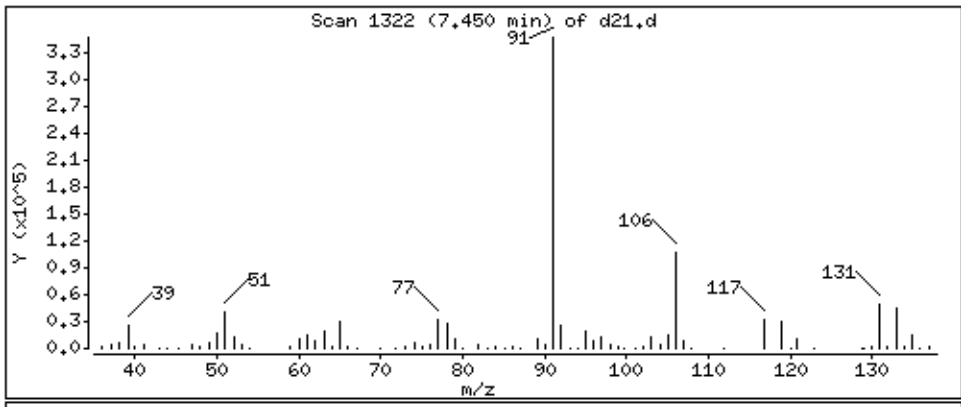
Column phase: DB-624

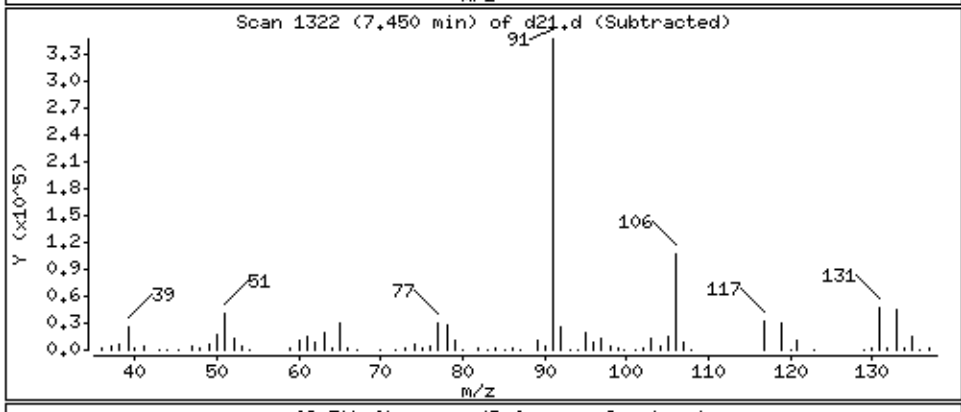
Column diameter: 0.18

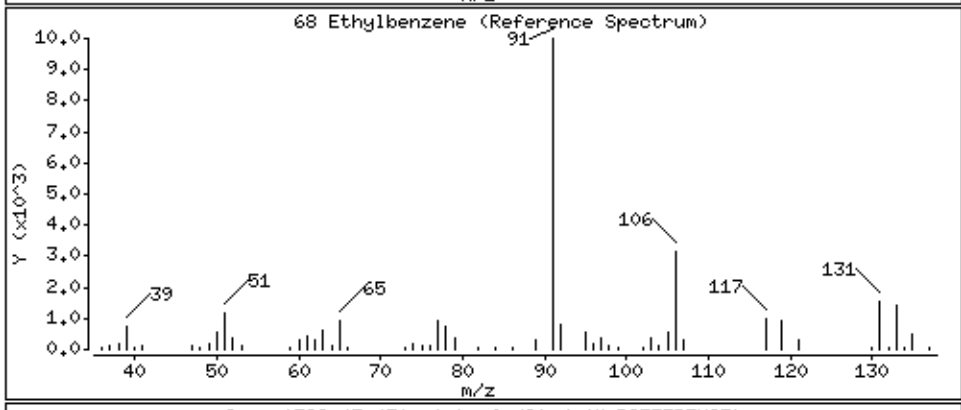
68 Ethylbenzene

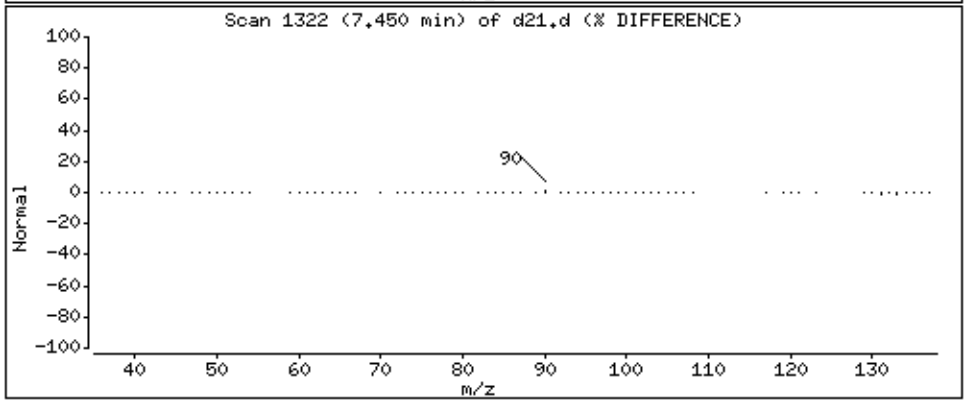
Concentration: 52.4 ppb

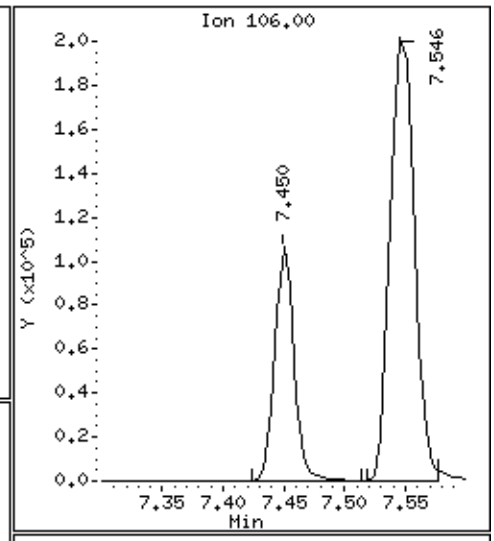
Review Code:

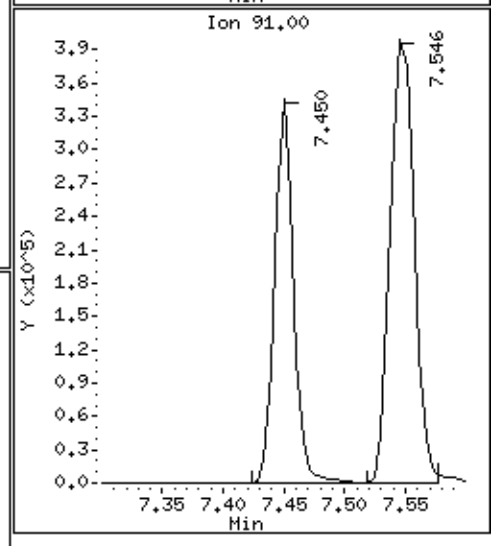












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

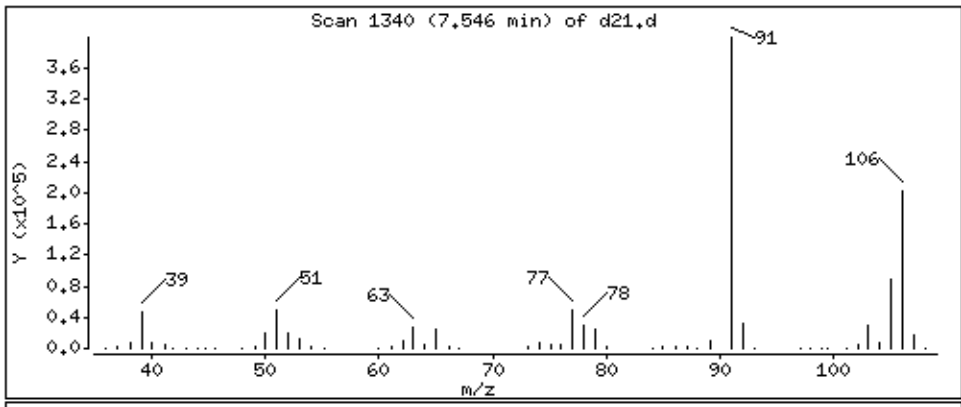
Column phase: DB-624

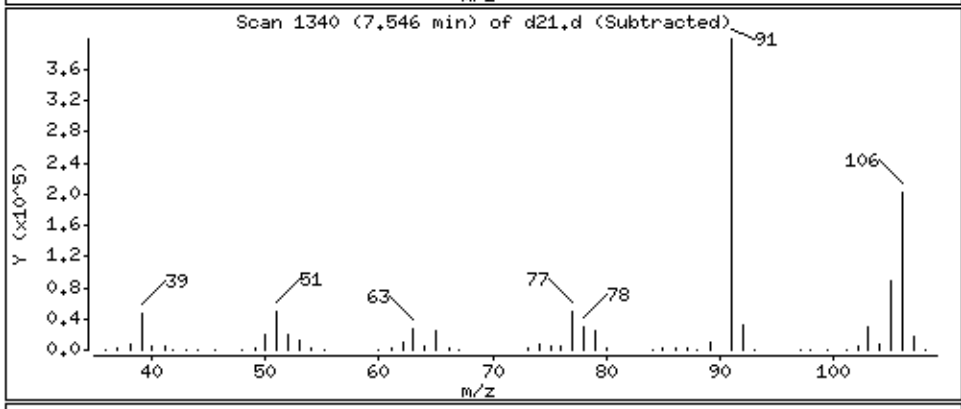
Column diameter: 0.18

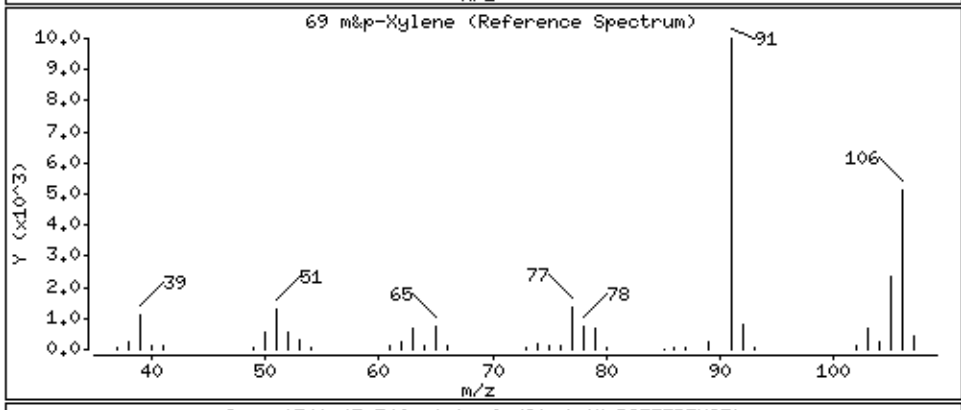
69 m&p-Xylene

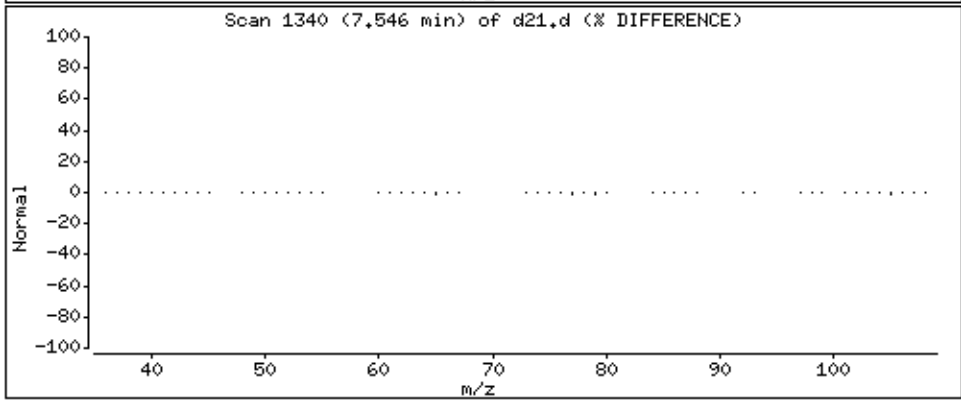
Concentration: 104 ppb

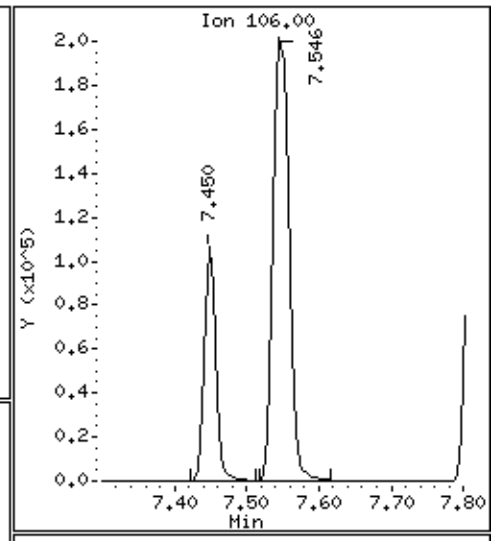
Review Code:

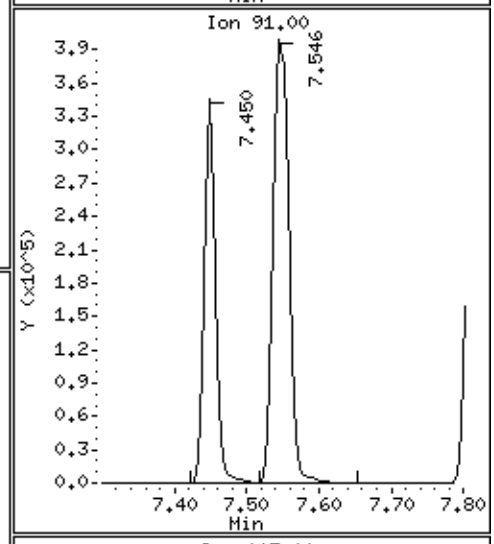


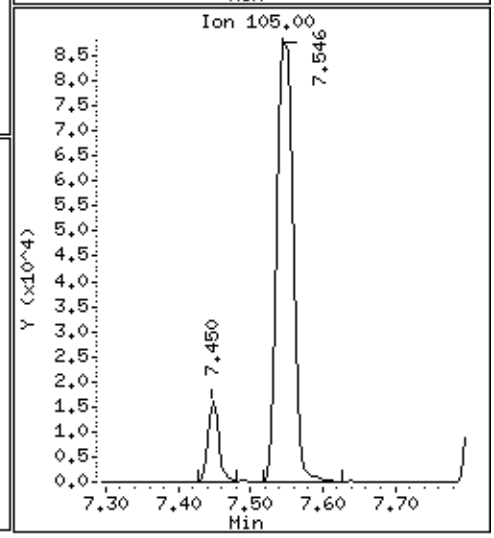












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

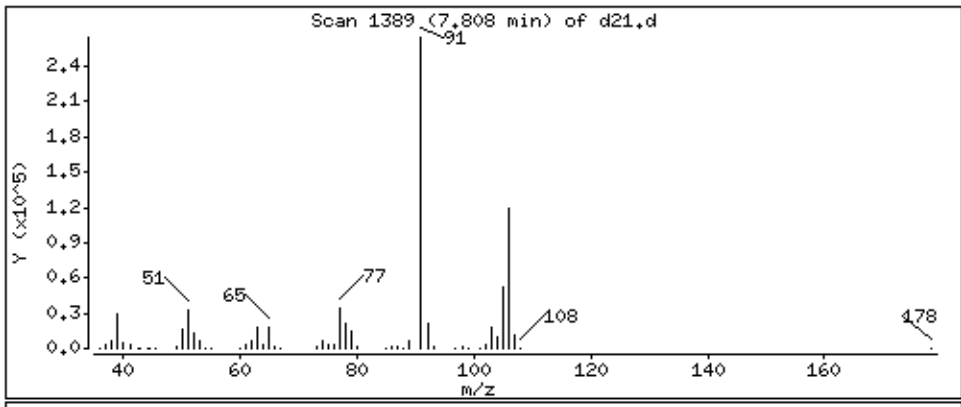
Column phase: DB-624

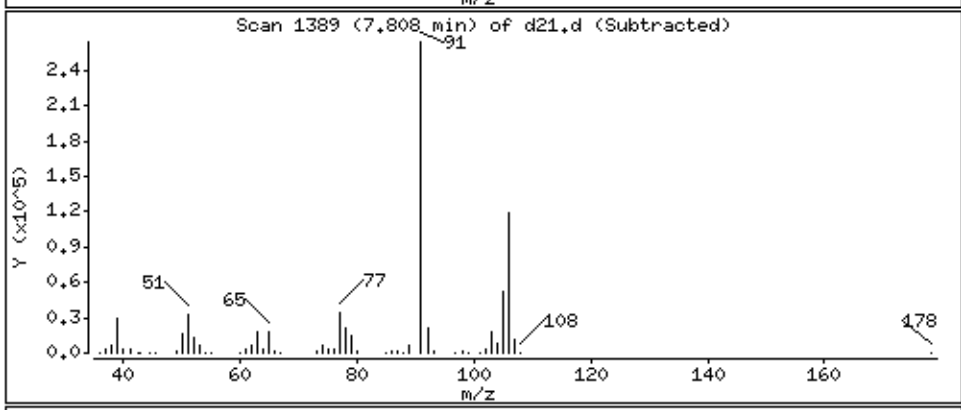
Column diameter: 0.18

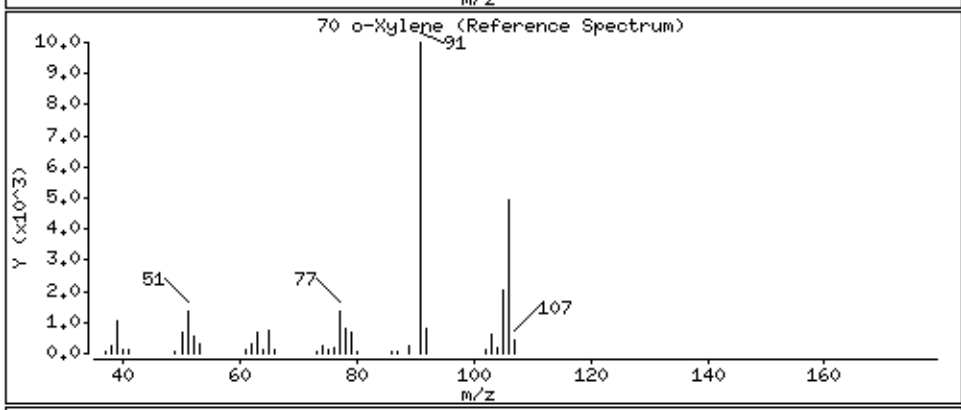
70 o-Xylene

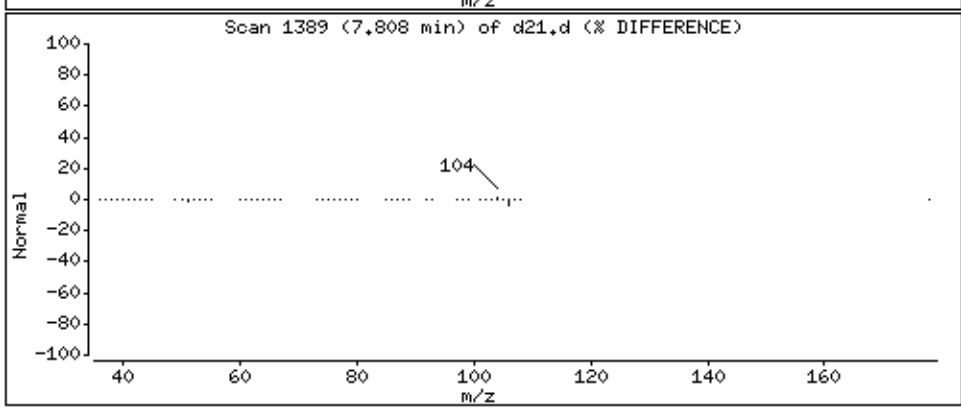
Concentration: 51.5 ppb

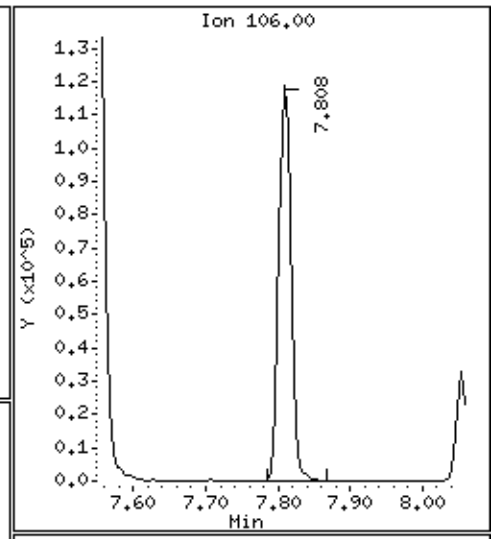
Review Code:

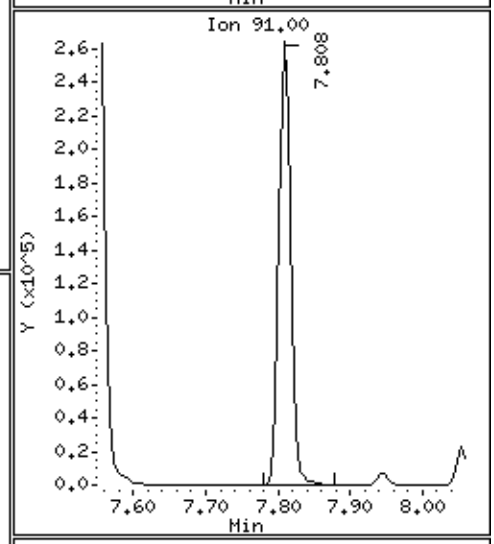


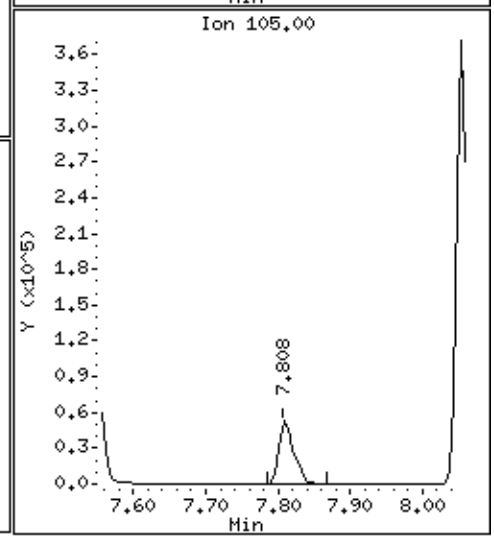












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

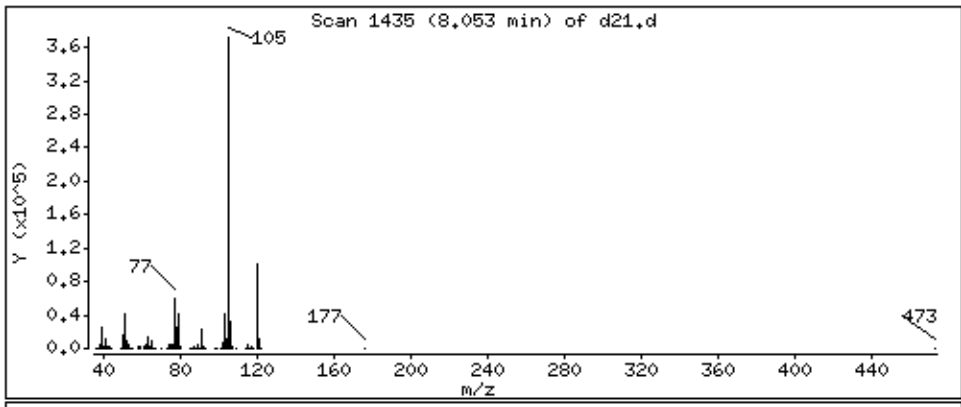
Column phase: DB-624

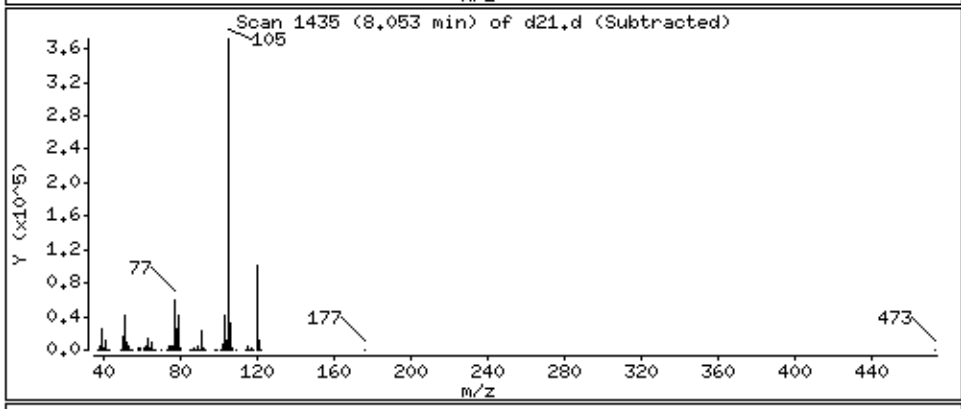
Column diameter: 0.18

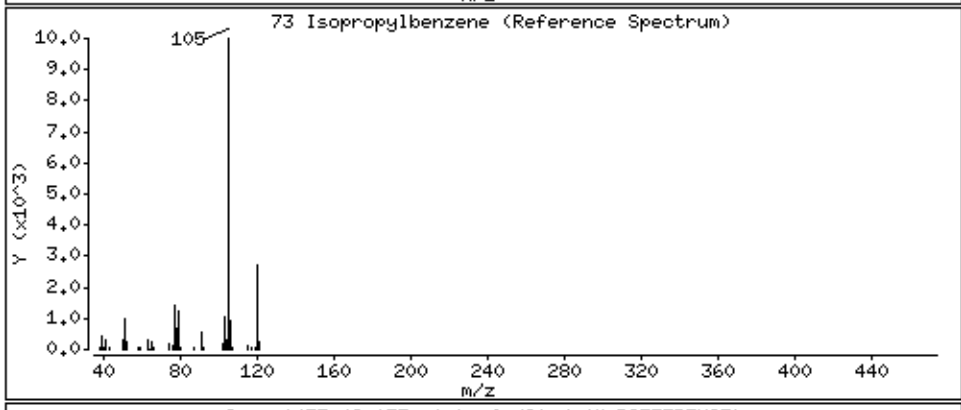
73 Isopropylbenzene

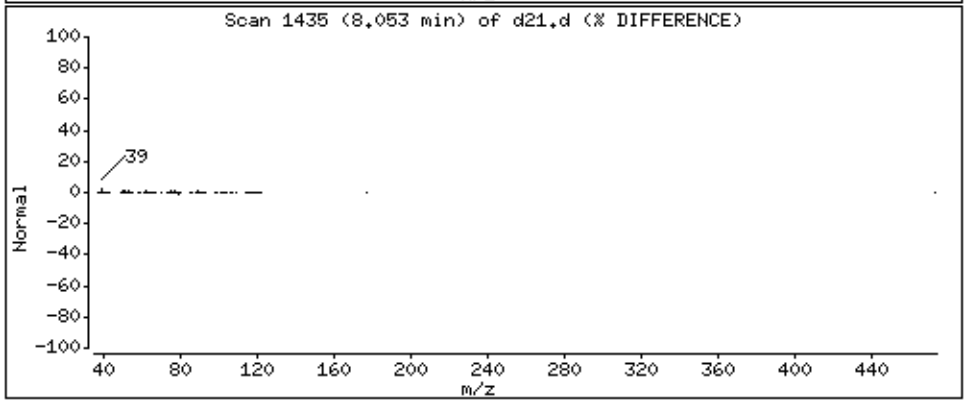
Concentration: 53.2 ppb

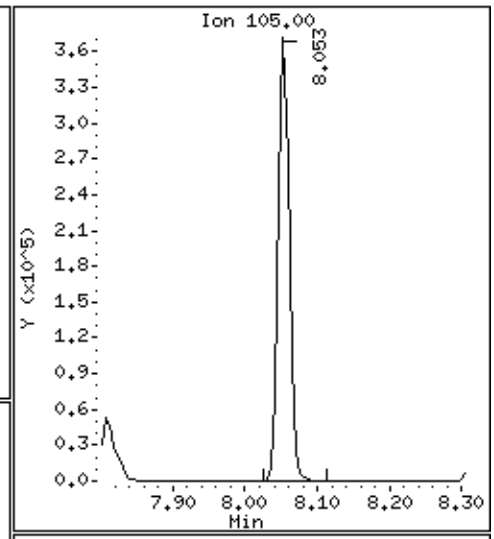
Review Code:

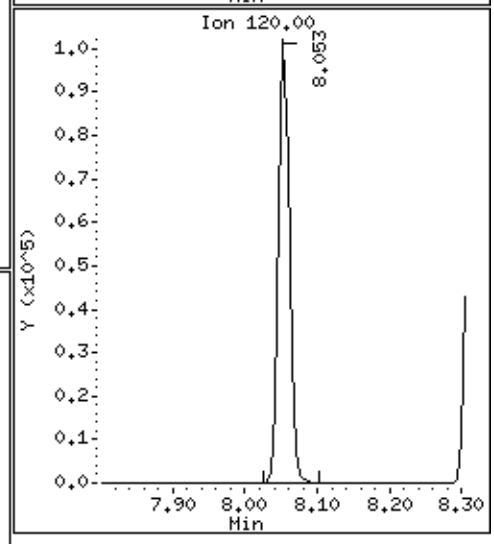












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

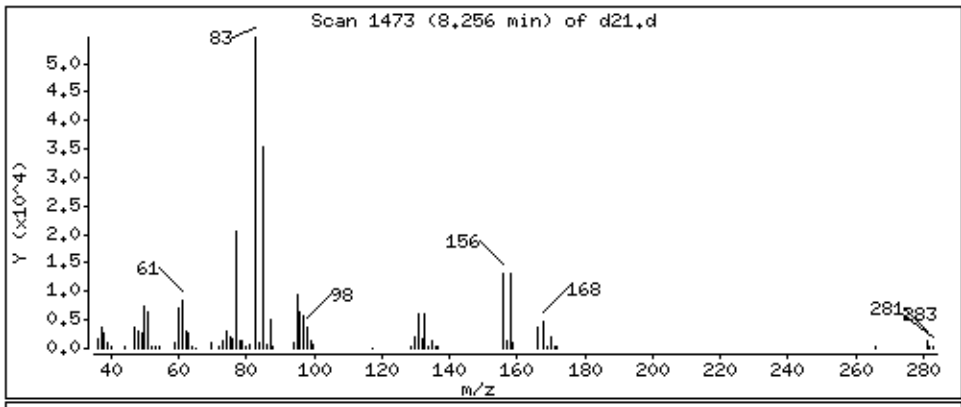
Column phase: DB-624

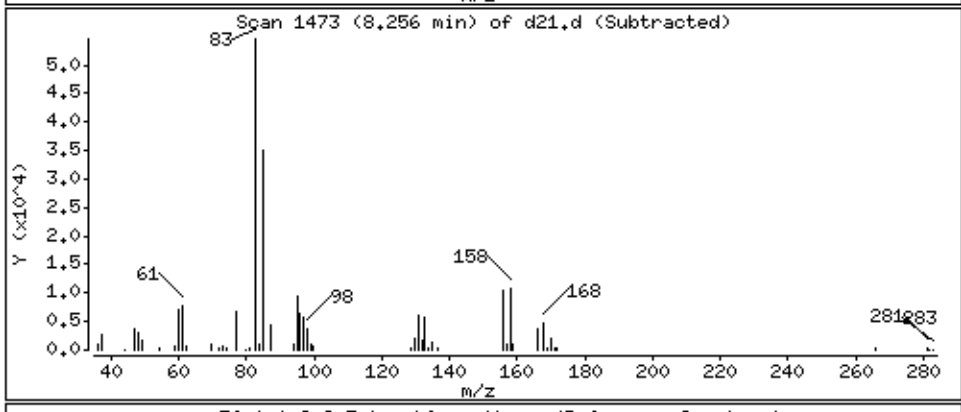
Column diameter: 0.18

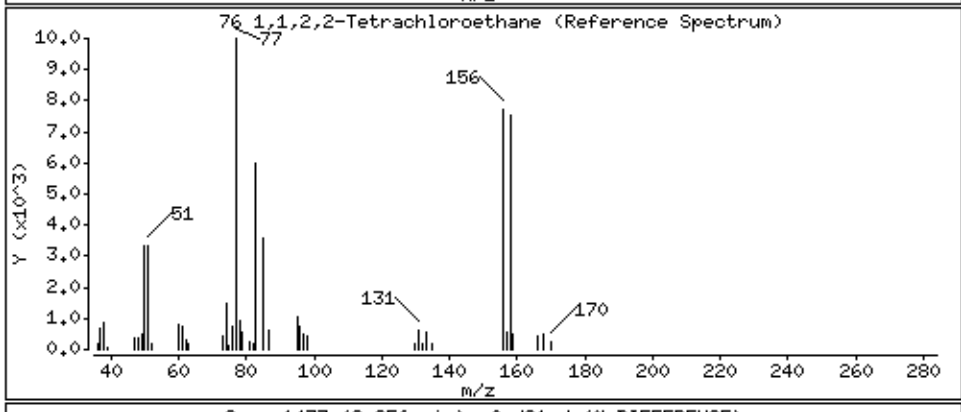
76 1,1,2,2-Tetrachloroethane

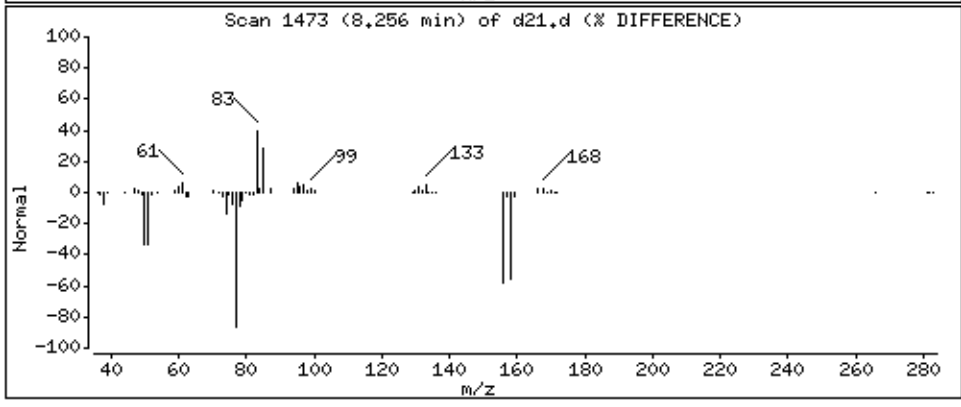
Concentration: 51.6 ppb

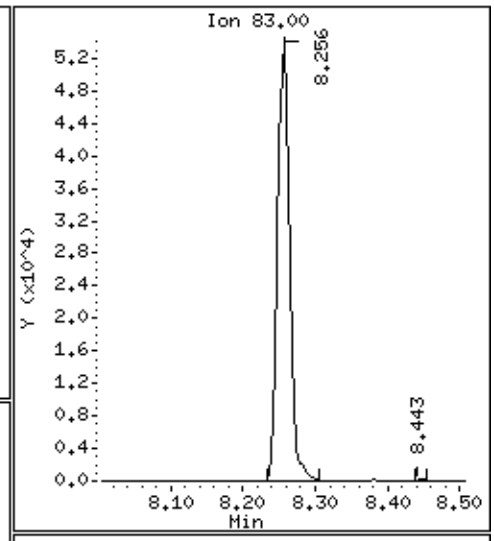
Review Code:

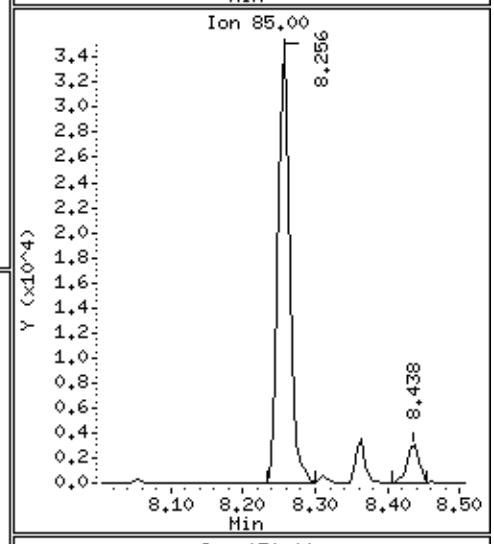


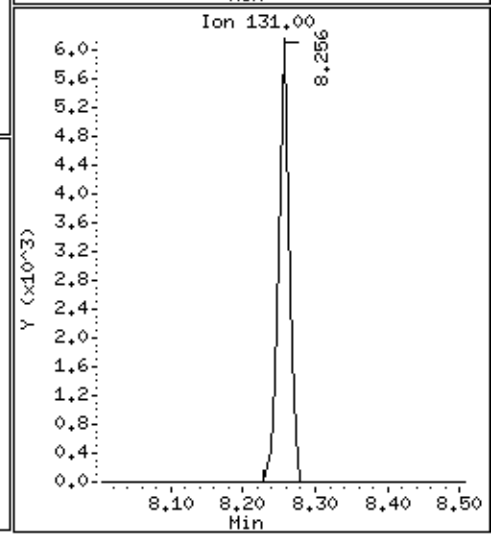












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

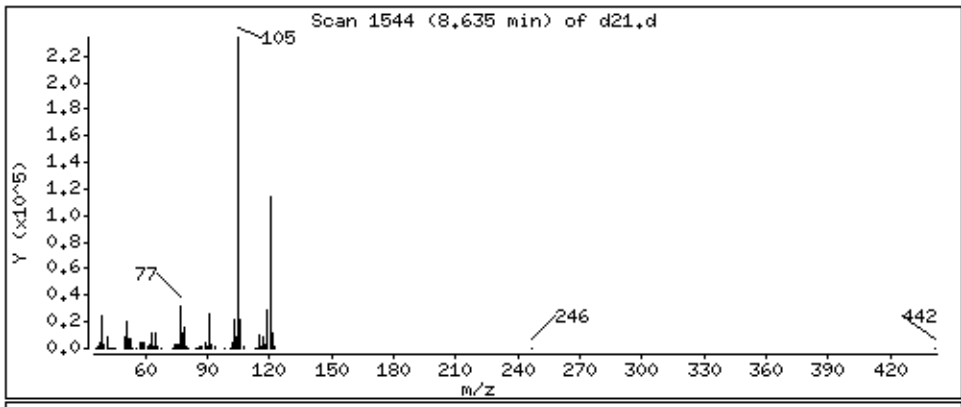
Column phase: DB-624

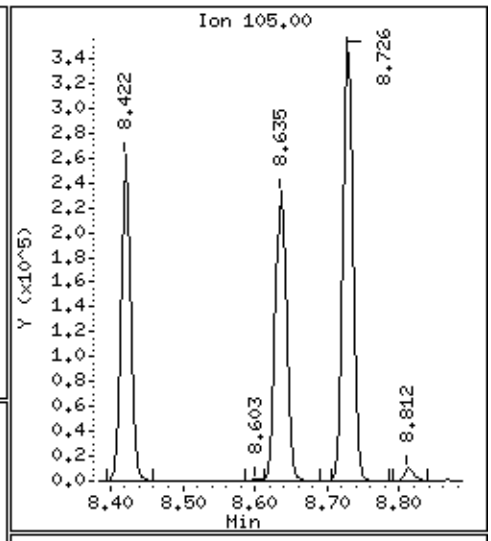
Column diameter: 0.18

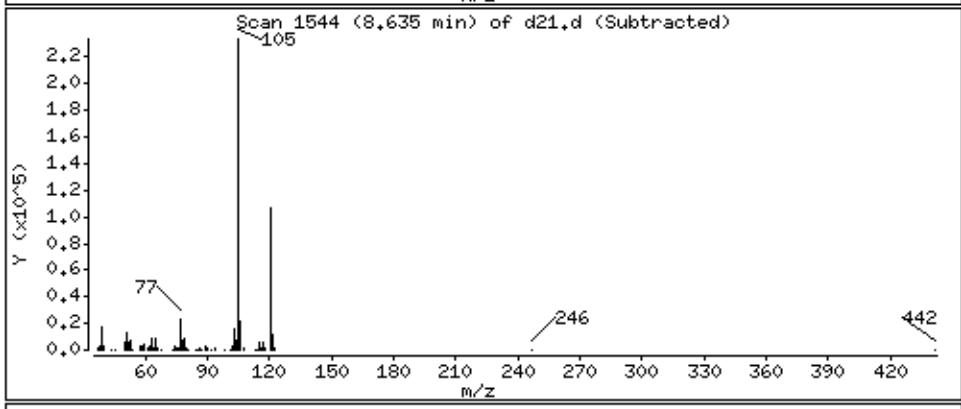
84 1,2,4-Trimethylbenzene

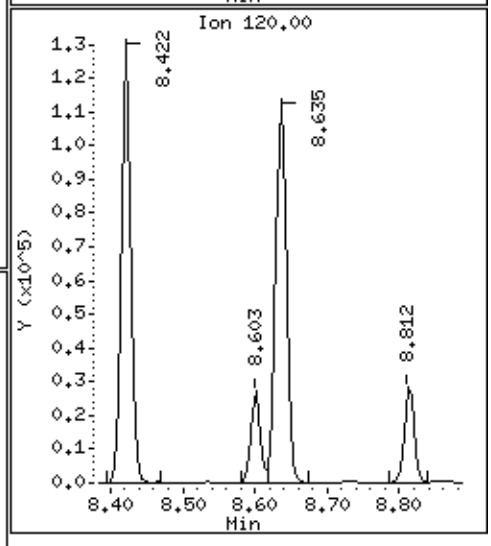
Concentration: 45.9 ppb

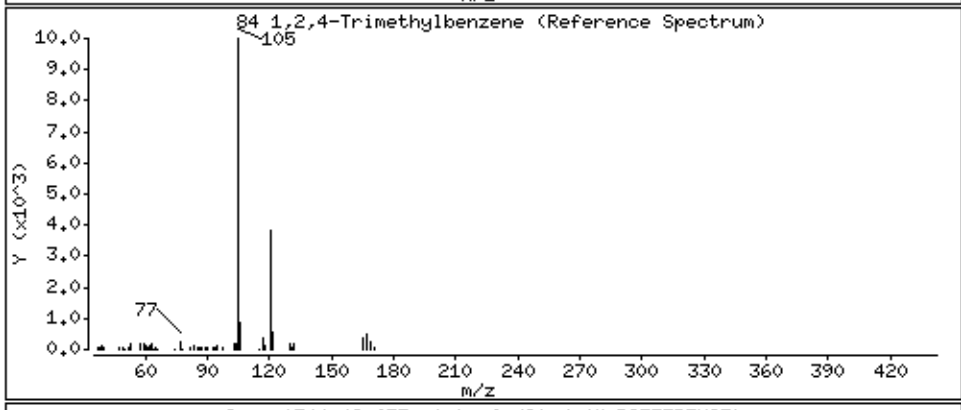
Review Code:

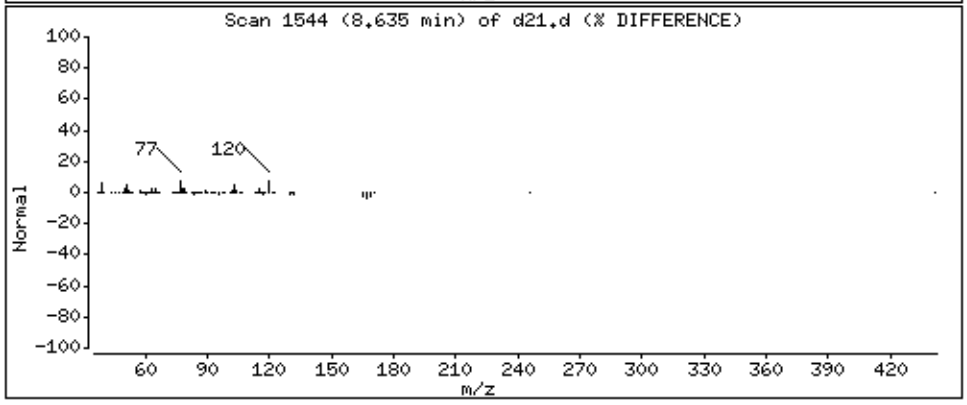












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b\d21.d

Date : 12-APR-2016 09:54

Client ID: MW-0705-S1(033016)P

Instrument: 50mv3b.i

Sample Info: 1516504,118316:5

Purge Volume: 5.0

Operator: jlz

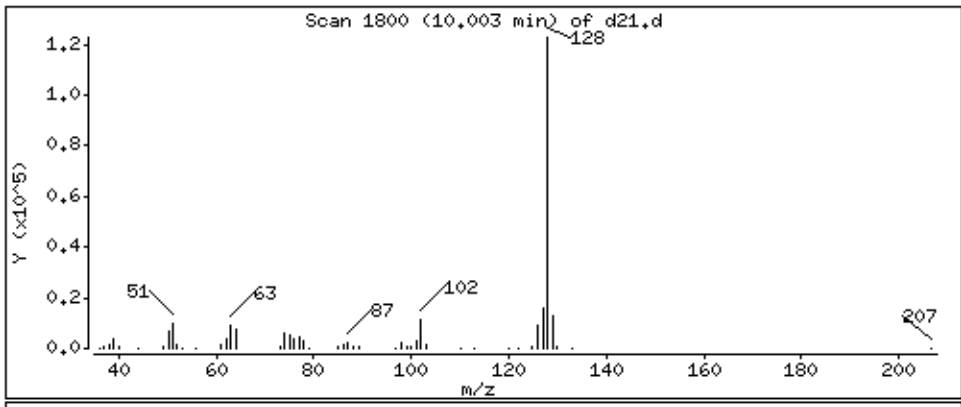
Column phase: DB-624

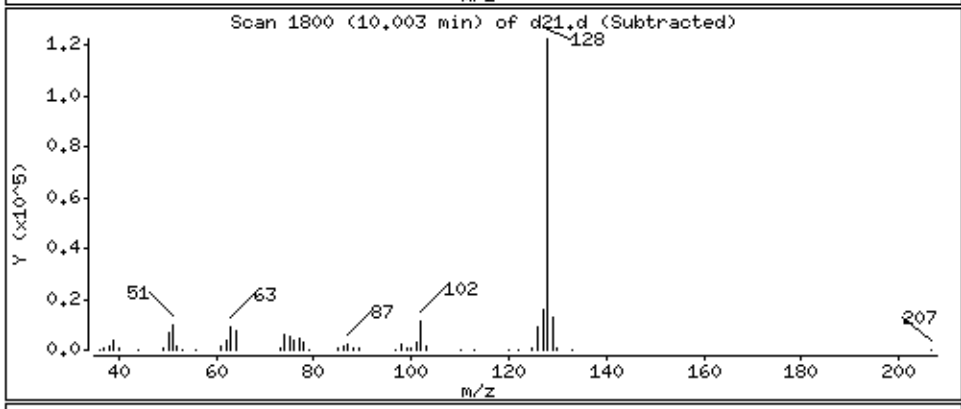
Column diameter: 0.18

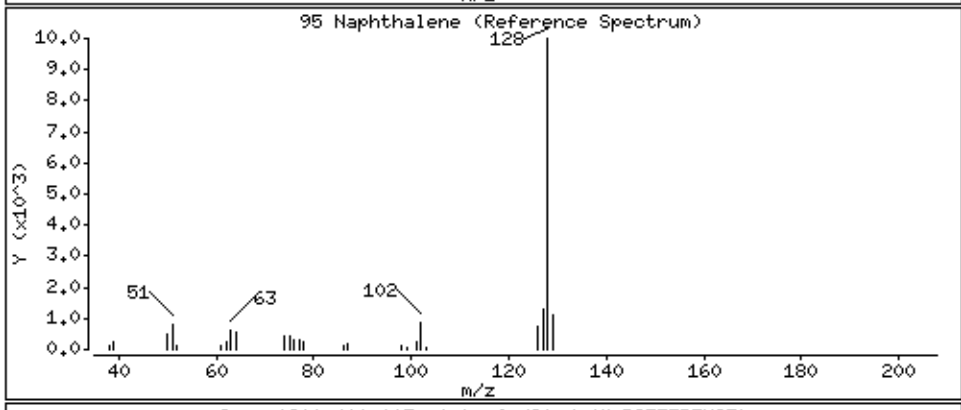
95 Naphthalene

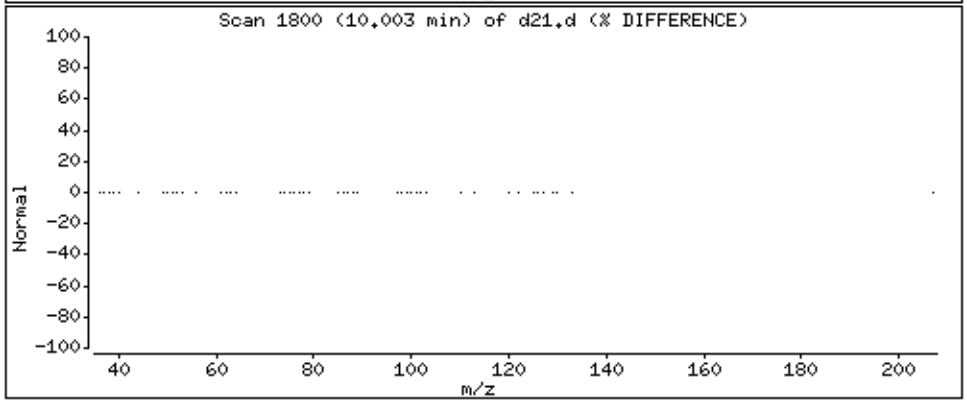
Concentration: 48.1 ppb

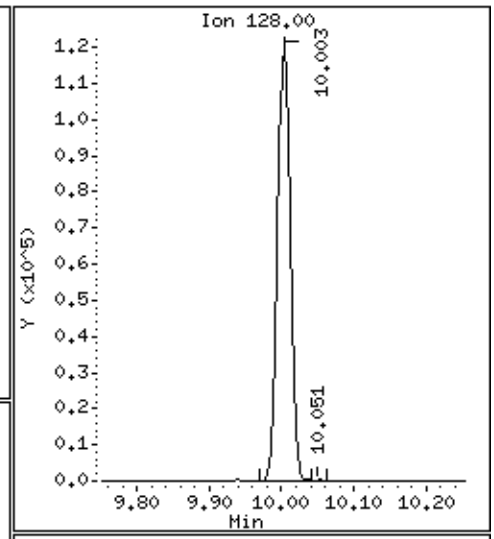
Review Code:

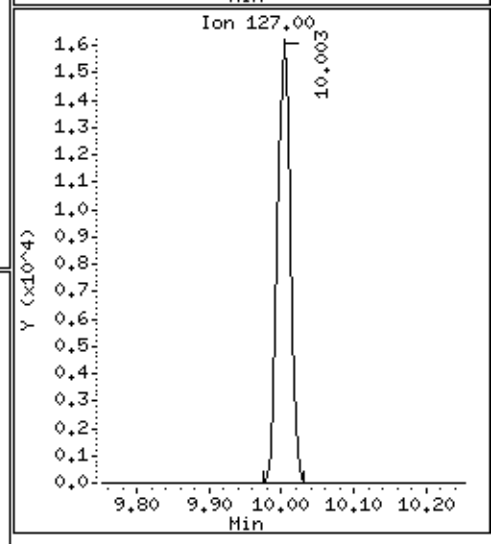












Data File: \\192.168.50.6\chem\50mv3b.i\b041116.b/d21.d
Injection Date: 12-APR-2016 09:54
Instrument: 50mv3b.i
Lab Sample ID: 1516504
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 11:42 Lab Sample ID: 1516522

Date Analyzed: 04/11/2016 11:42 Lab File ID: A041116.B\A03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 11:42 Lab Sample ID: 1516522

Date Analyzed: 04/11/2016 11:42 Lab File ID: A041116.B\A03MBW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a03mbw.d
Lab Smp Id: 1516522
Inj Date : 11-APR-2016 11:42
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516522
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

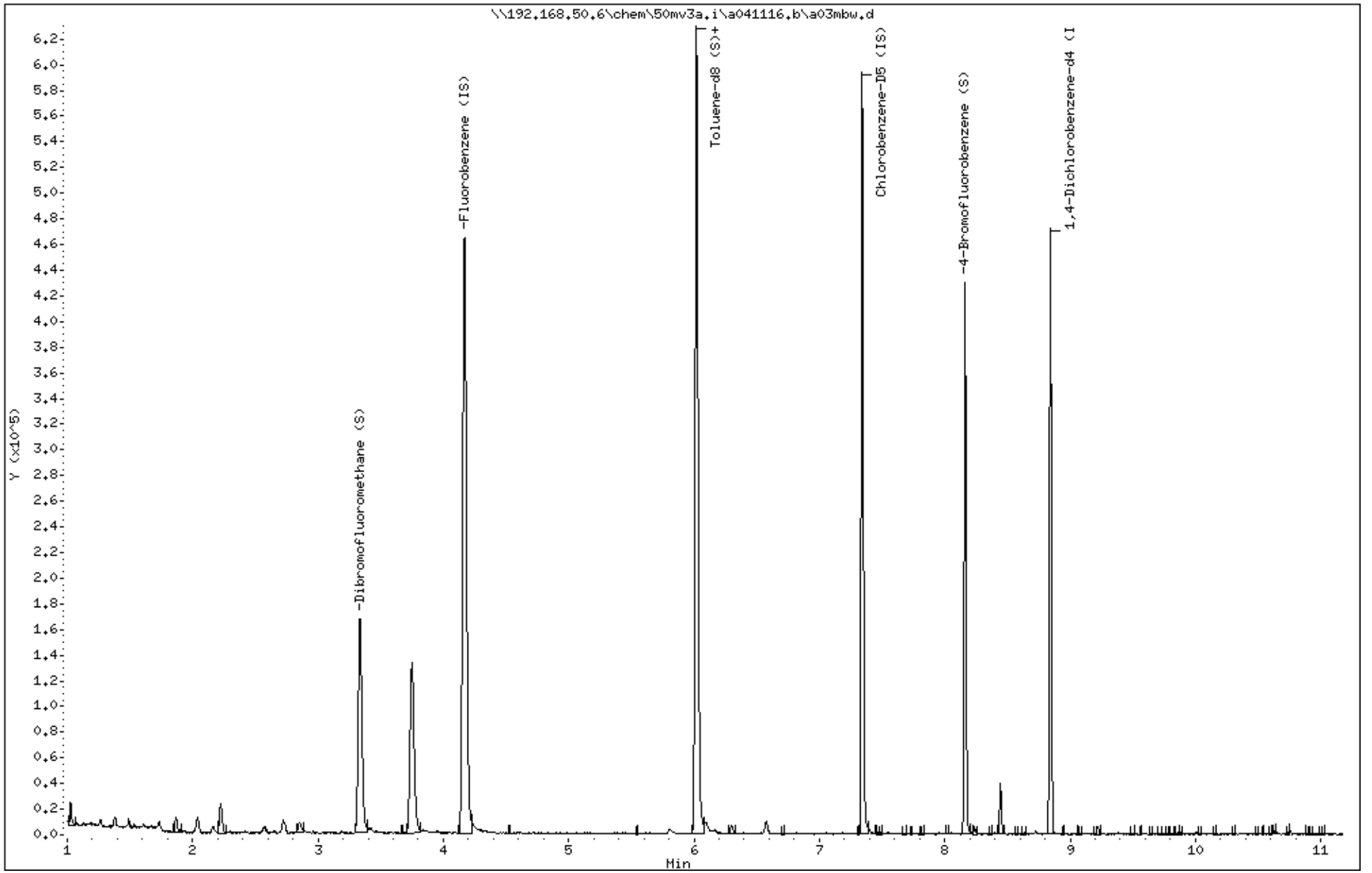
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
18 Methylene Chloride	84	1.867	1.861	(0.448)	3683	1.55494	1.55	
$ 35 Dibromofluoromethane (S)	113	3.331	3.330	(0.800)	107427	51.4890	51.5	
* 45 Fluorobenzene (IS)	96	4.164	4.163	(1.000)	463057	50.0000		
$ 56 Toluene-d8 (S)	98	6.017	6.017	(0.820)	366234	49.3725	49.4	
57 Toluene	91	6.103	6.091	(0.831)	3003	0.31579	0.316	
* 66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	215917	50.0000		
$ 75 4-Bromofluorobenzene (S)	95	8.164	8.164	(1.112)	78878	44.2137	44.2	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.843	8.842	(1.000)	73324	50.0000		

Review Codes Legend

:

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a03mbw.d
Date : 11-APR-2016 11:42
Client ID:
Sample Info: 1516522
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a03mbw.d

Date : 11-APR-2016 11:42

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516522

Purge Volume: 5.0

Operator: jlz

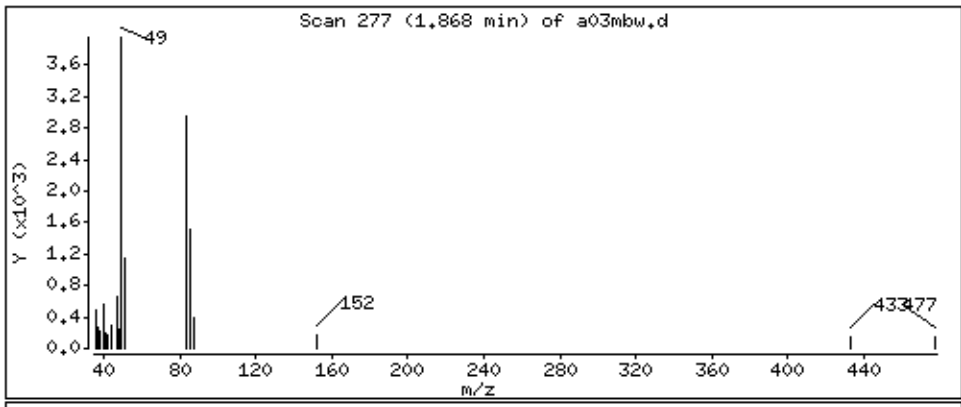
Column phase: DB-624

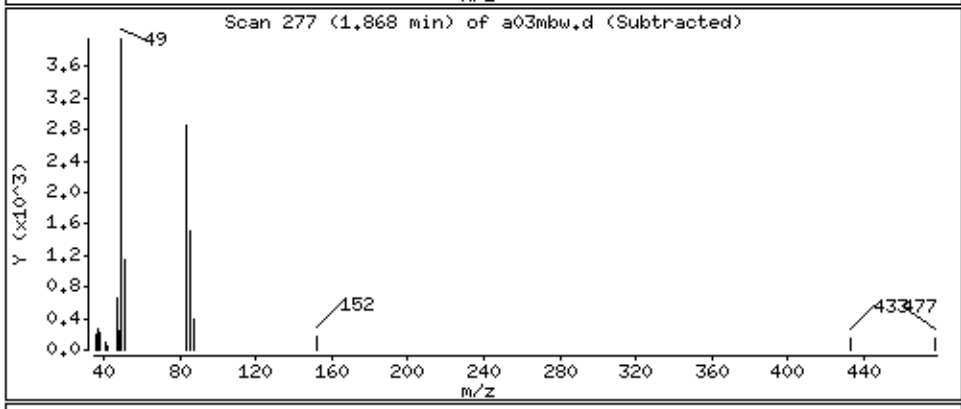
Column diameter: 0.18

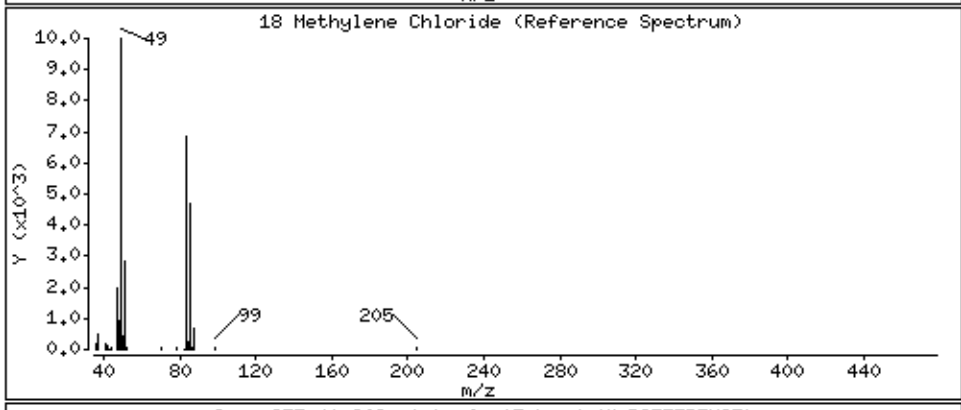
18 Methylene Chloride

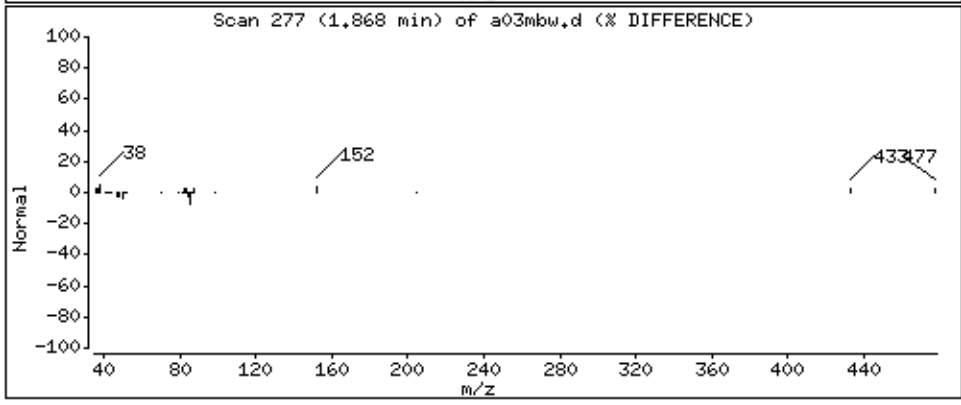
Concentration: 1.55 ppb

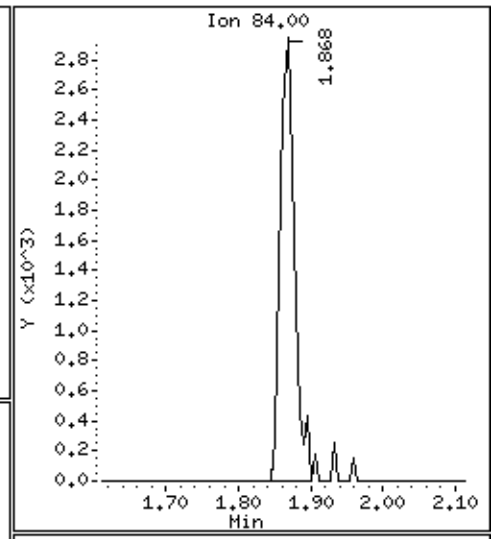
Review Code:

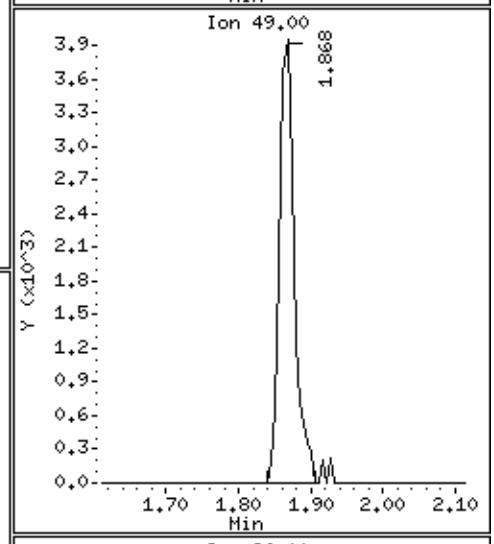


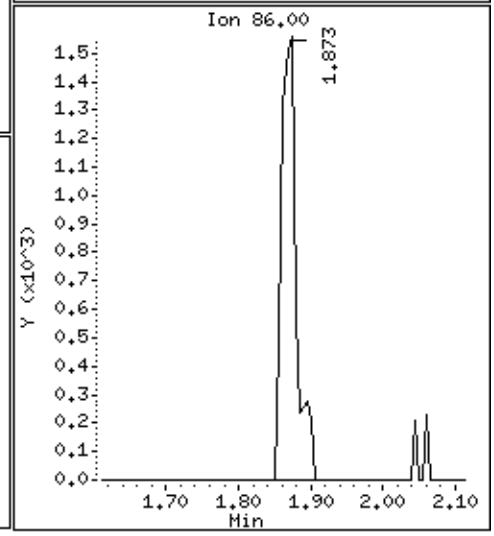












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a03mbw.d

Date : 11-APR-2016 11:42

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516522

Purge Volume: 5.0

Operator: jlz

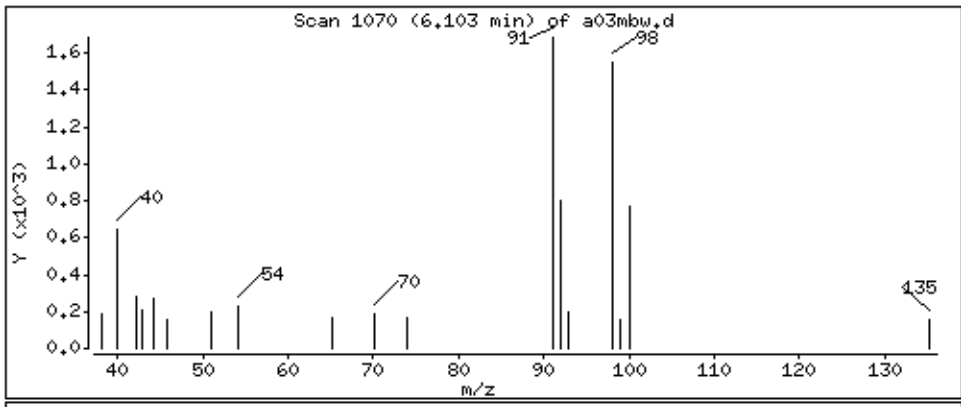
Column phase: DB-624

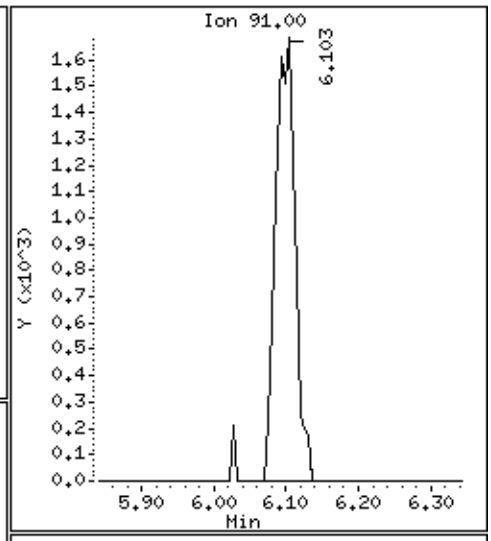
Column diameter: 0.18

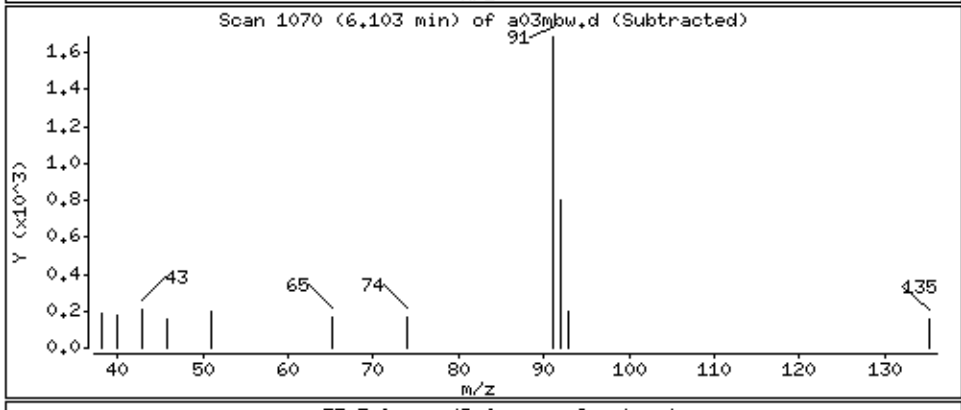
57 Toluene

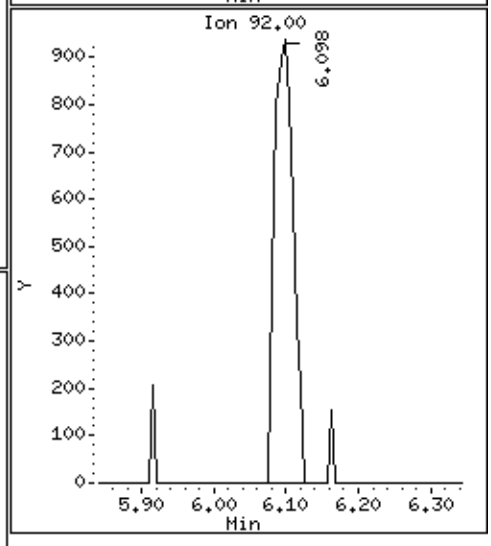
Concentration: 0.316 ppb

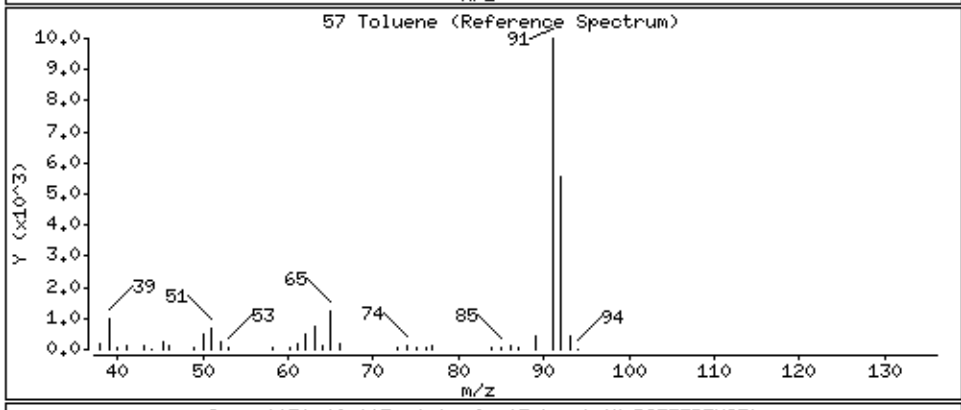
Review Code:

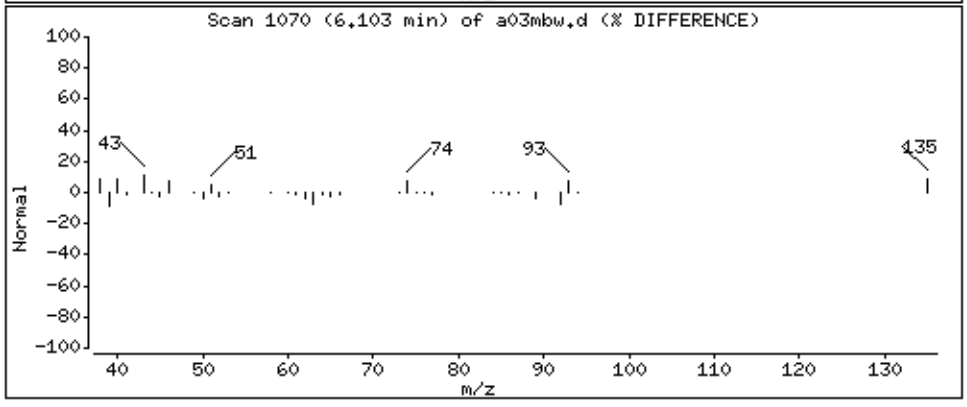












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a03mbw.d
Injection Date: 11-APR-2016 11:42
Instrument: 50mv3a.i
Lab Sample ID: 1516522
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 11:10 Lab Sample ID: 1516523

Date Analyzed: 04/11/2016 11:10 Lab File ID: A041116.B\A02LCSW.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	48.1	
108-90-7	Chlorobenzene	46.9	
67-66-3	Chloroform	47.7	
75-35-4	1,1-Dichloroethene	46.6	
156-59-2	cis-1,2-Dichloroethene	48.3	
156-60-5	trans-1,2-Dichloroethene	47.2	
78-87-5	1,2-Dichloropropane	47.6	
100-41-4	Ethylbenzene	49.4	
98-82-8	Isopropylbenzene (Cumene)	48.7	
1634-04-4	Methyl-tert-butyl ether	48.9	
79-34-5	1,1,2,2-Tetrachloroethane	45.4	
127-18-4	Tetrachloroethene	51.6	
108-88-3	Toluene	44.7	
71-55-6	1,1,1-Trichloroethane	51.6	
79-01-6	Trichloroethene	48.3	
75-01-4	Vinyl chloride	45.3	
1330-20-7	Xylene (Total)	143	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d
Lab Smp Id: 1516523
Inj Date : 11-APR-2016 11:10
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516523,118316:0
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

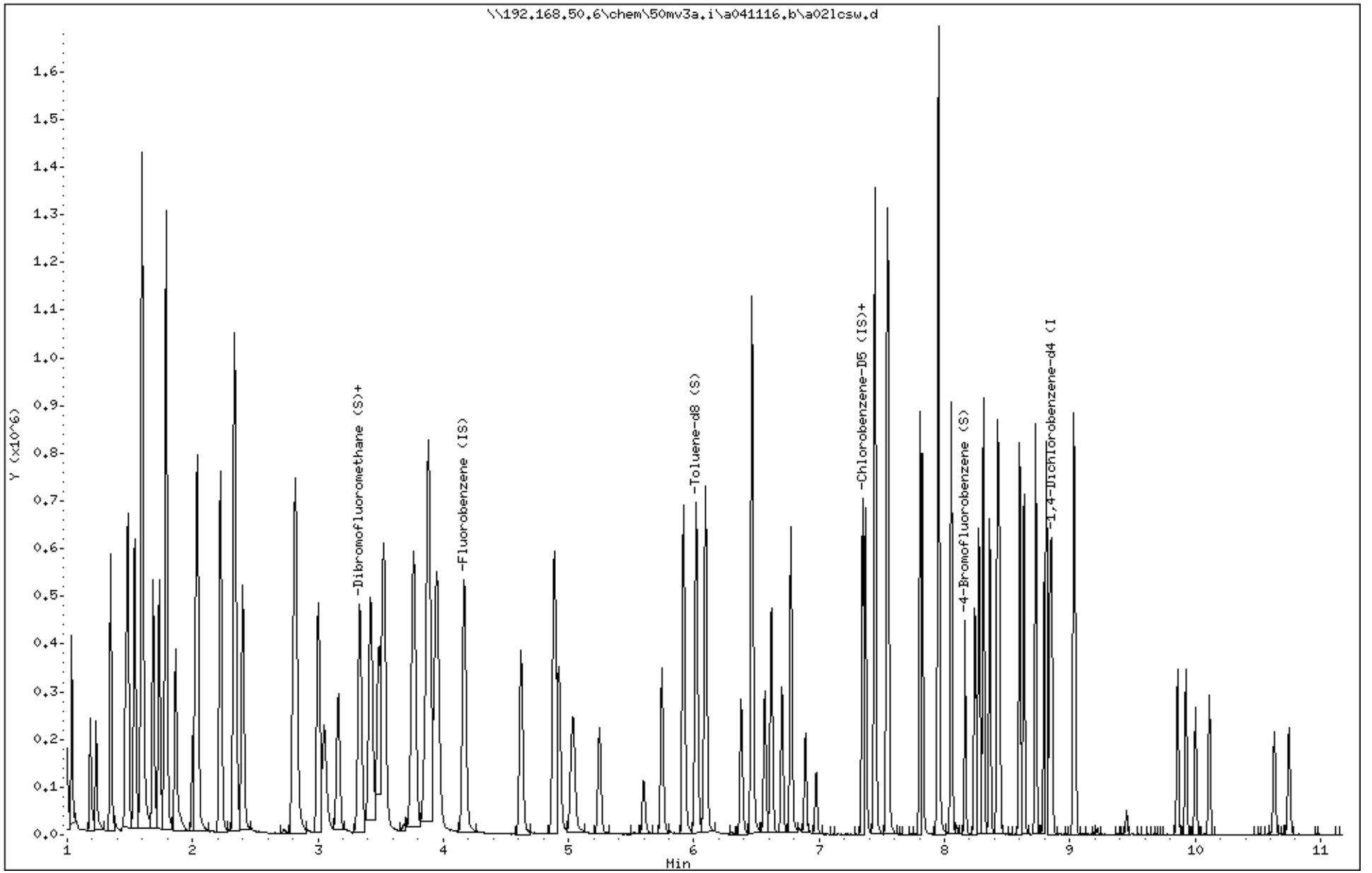
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.037	1.033	(0.249)	201088	45.2822	45.3	
	11 1,1-Dichloroethene	96	1.598	1.594	(0.384)	146293	46.6484	46.6	
	20 Methyl-tert-butyl ether	73	2.025	2.027	(0.486)	300560	48.8865	48.9	
	22 1,2-Dichloroethene (trans)	96	2.041	2.038	(0.490)	135989	47.1736	47.2	
	28 1,2-Dichloroethene (cis)	96	2.815	2.812	(0.676)	138187	48.2652	48.3	
	34 Chloroform	83	3.163	3.159	(0.759)	217327	47.7361	47.7	
	36 1,1,1-Trichloroethane	97	3.339	3.330	(0.801)	203076	51.6173	51.6	
$	35 Dibromofluoromethane (S)	113	3.334	3.330	(0.800)	121074	51.4229	51.4	
	41 Benzene	78	3.766	3.763	(0.904)	521025	48.0932	48.1	
*	45 Fluorobenzene (IS)	96	4.167	4.163	(1.000)	522552	50.0000		
	46 Trichloroethene	95	4.621	4.612	(1.109)	127863	48.2759	48.3	
	48 1,2-Dichloropropane	63	4.925	4.922	(1.182)	117684	47.5520	47.6	
$	56 Toluene-d8 (S)	98	6.020	6.017	(0.820)	411322	50.0281	50.0	
	57 Toluene	91	6.095	6.091	(0.830)	471342	44.7186	44.7	
	61 Tetrachloroethene	166	6.618	6.615	(0.901)	108116	51.6333	51.6	
*	66 Chlorobenzene-D5 (IS)	117	7.345	7.341	(1.000)	239321	50.0000		
	67 Chlorobenzene	112	7.366	7.368	(1.003)	228462	46.9244	46.9	
	69 Ethylbenzene	106	7.446	7.448	(1.014)	136220	49.3798	49.4	
	70 m&p-Xylene	106	7.548	7.544	(1.028)	321705	95.6522	95.6	
	71 o-Xylene	106	7.809	7.806	(1.063)	141491	47.4860	47.5	
	74 Isopropylbenzene	105	8.055	8.052	(1.097)	376555	48.7391	48.7	
$	75 4-Bromofluorobenzene (S)	95	8.162	8.164	(1.111)	88686	44.8499	44.8	
	77 1,1,2,2-Tetrachloroethane	83	8.253	8.255	(0.934)	58001	45.3713	45.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	245267	47.0230	47.0	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.840	8.842	(1.000)	80149	50.0000		
96 Naphthalene	128	9.999	10.001	(1.131)	141054	45.6136	45.6	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d
Date : 11-APR-2016 11:10
Client ID:
Sample Info: 1516523,118316:0
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

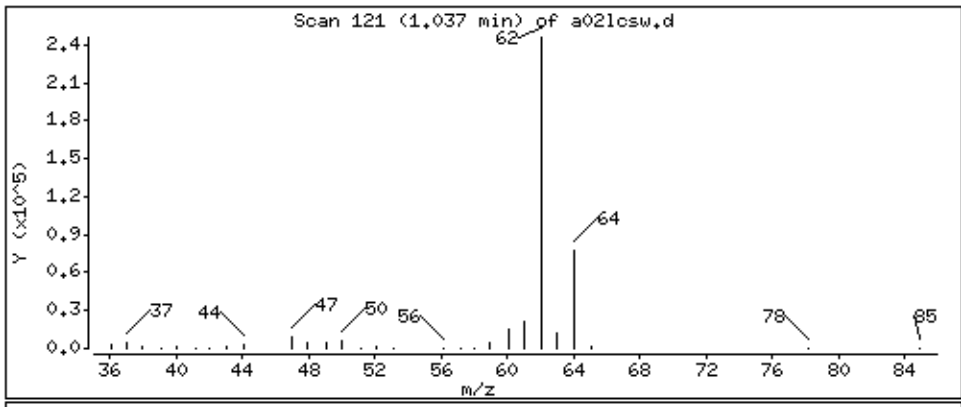
Column phase: DB-624

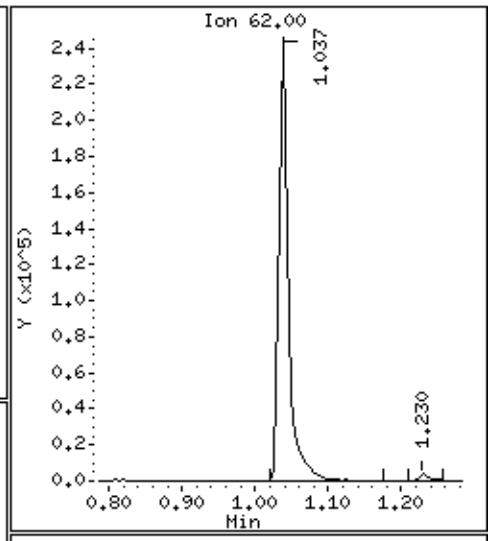
Column diameter: 0.18

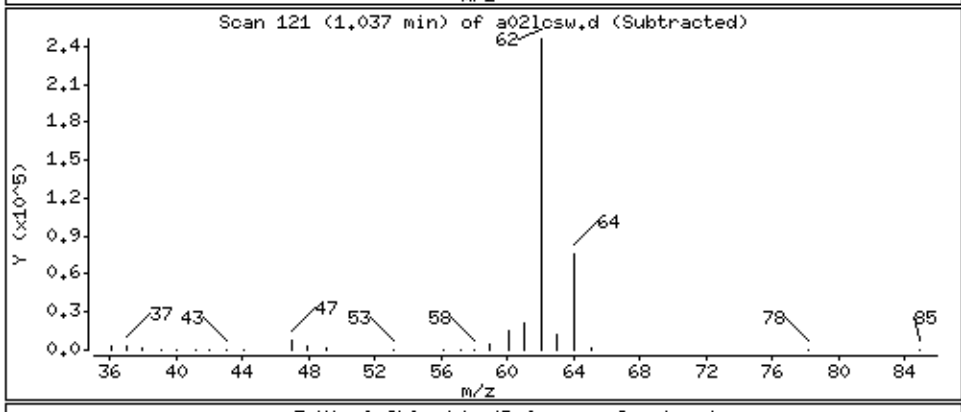
3 Vinyl Chloride

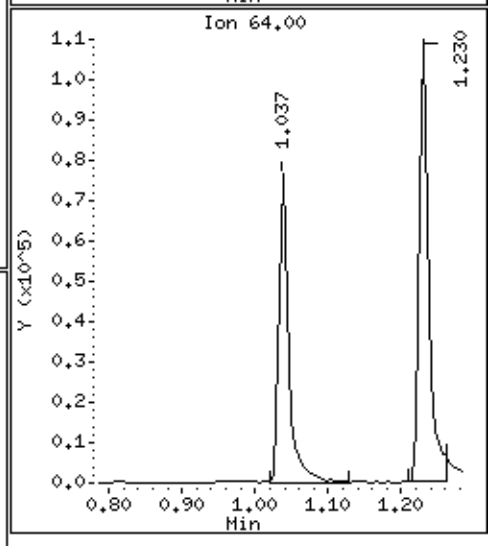
Concentration: 45.3 ppb

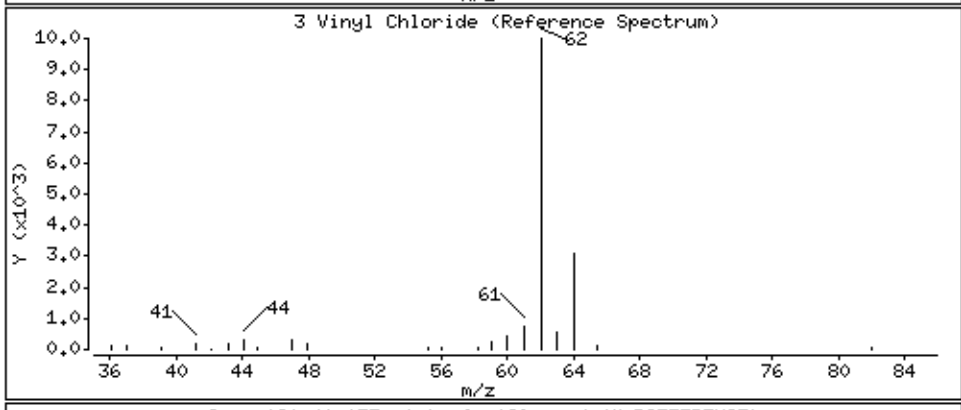
Review Code:

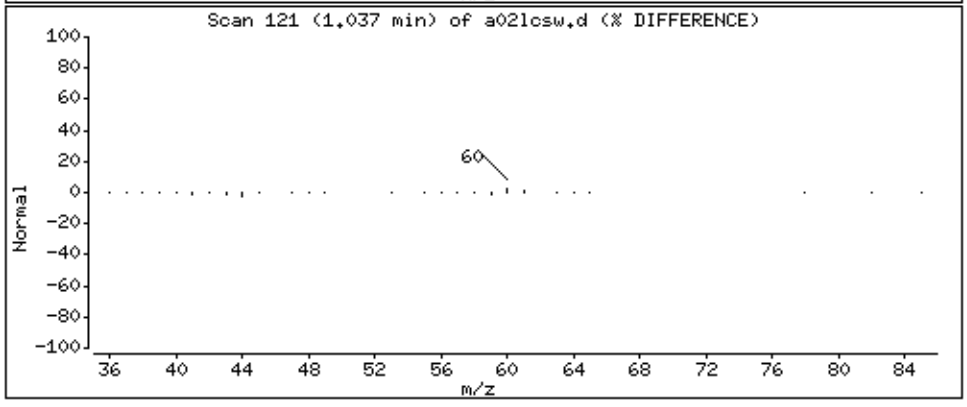












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

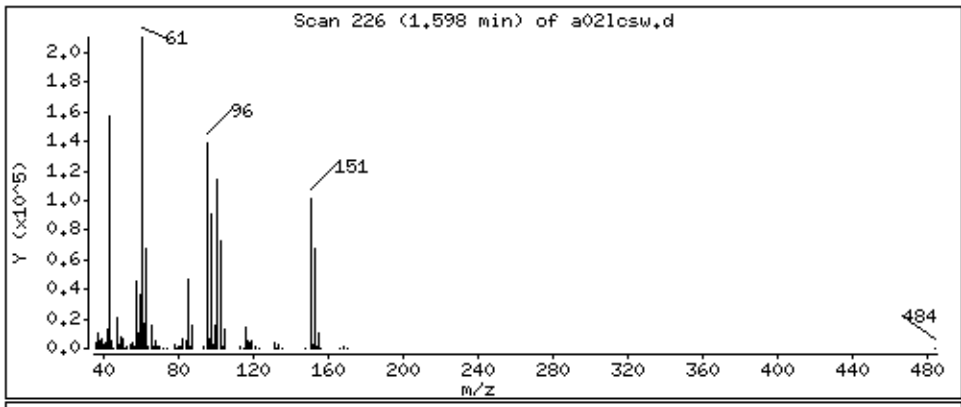
Column phase: DB-624

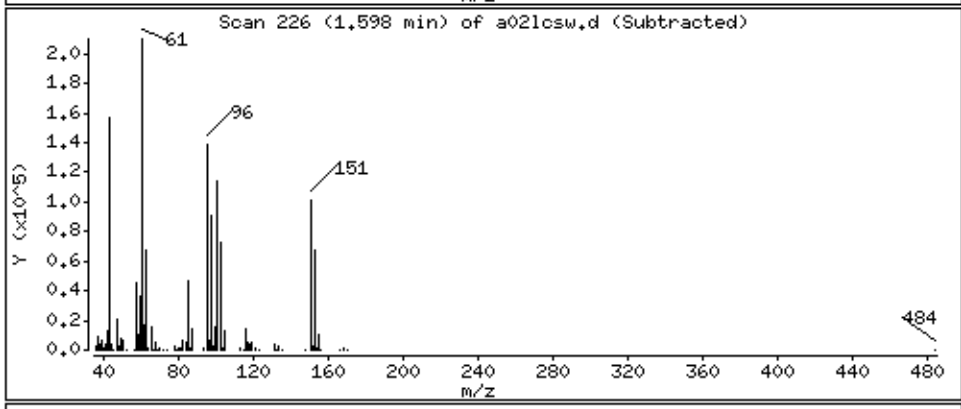
Column diameter: 0.18

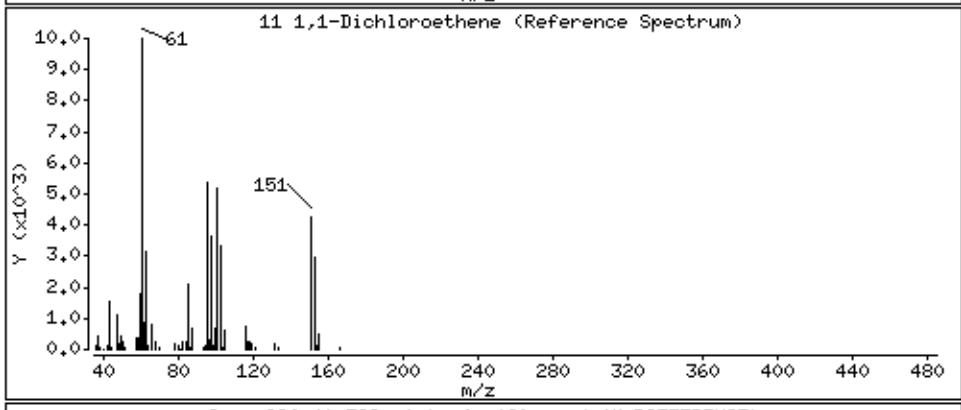
11 1,1-Dichloroethene

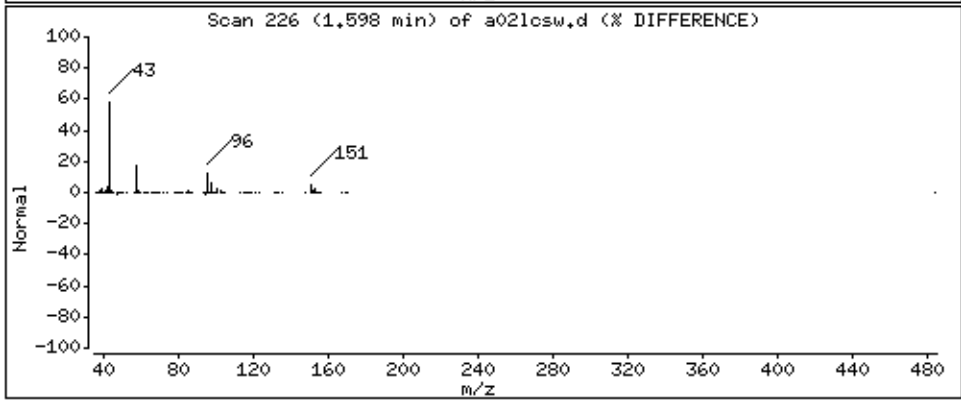
Concentration: 46.6 ppb

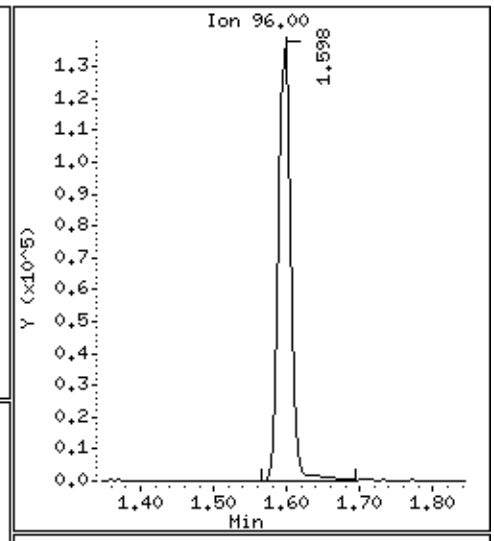
Review Code:

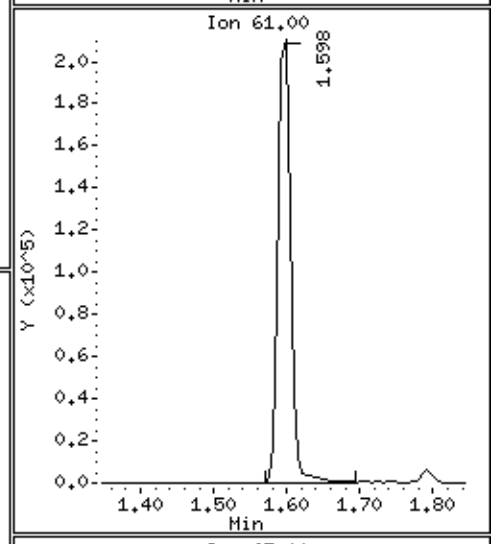


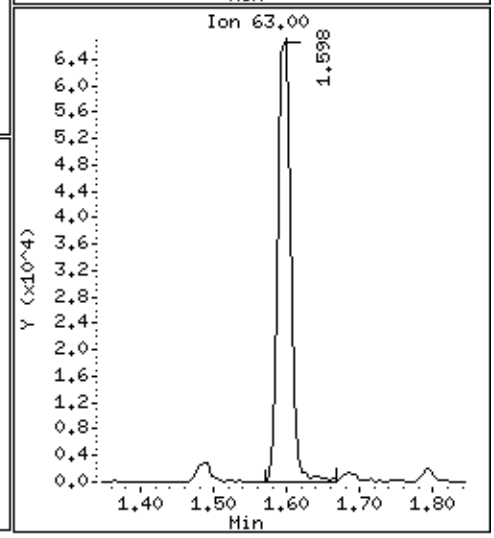












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

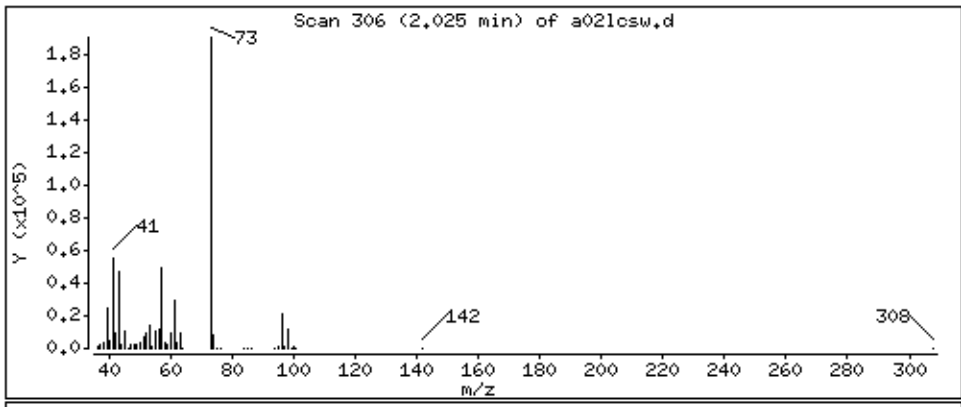
Column phase: DB-624

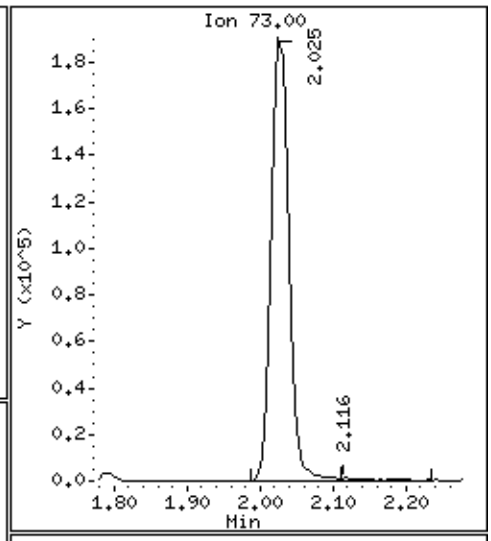
Column diameter: 0.18

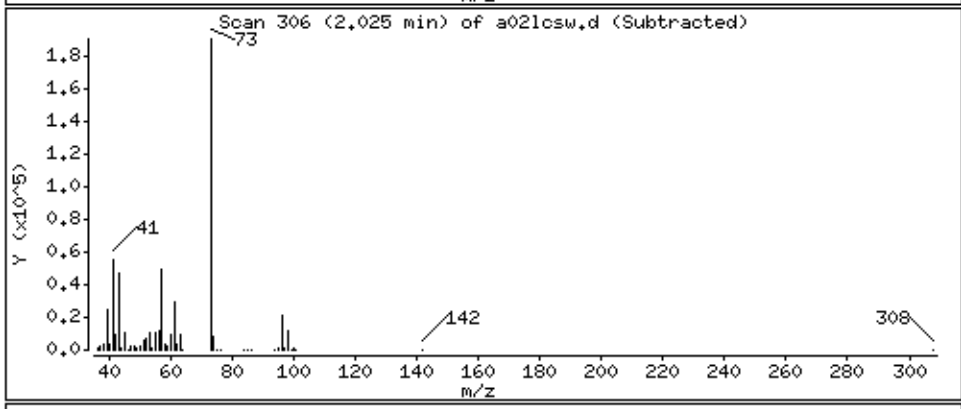
20 Methyl-tert-butyl ether

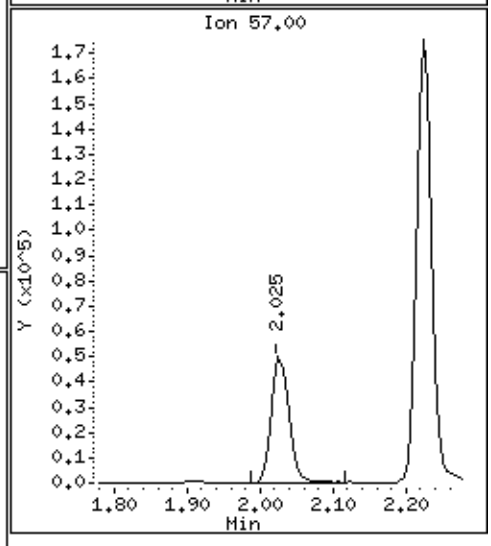
Concentration: 48.9 ppb

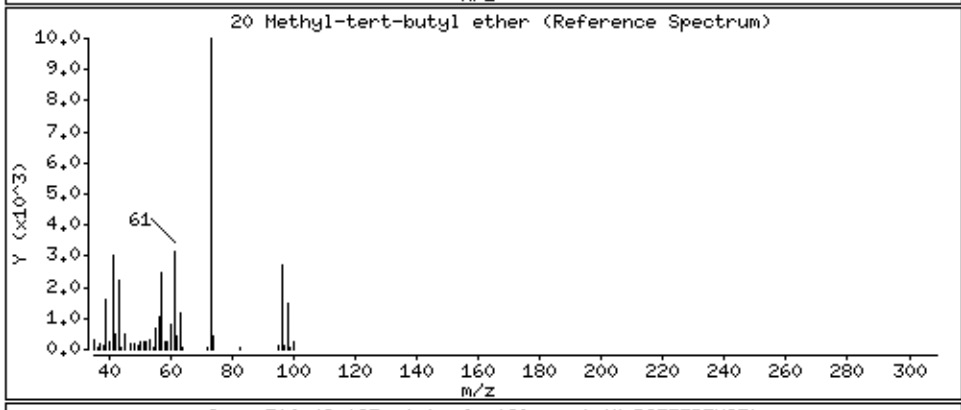
Review Code:

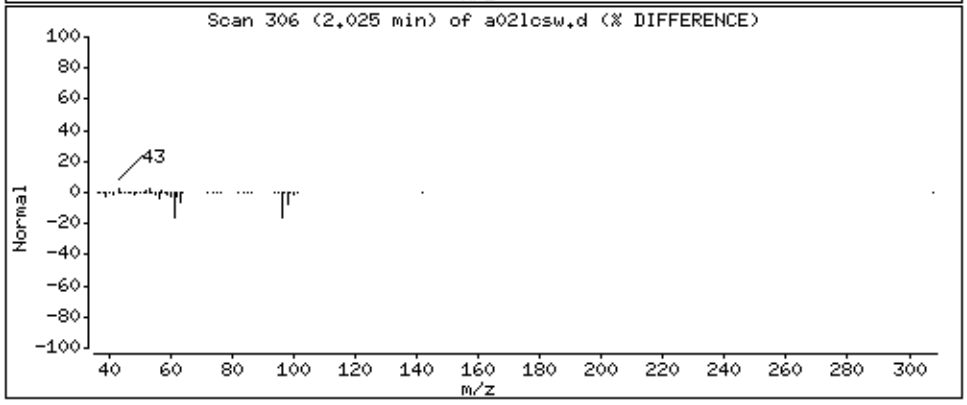












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

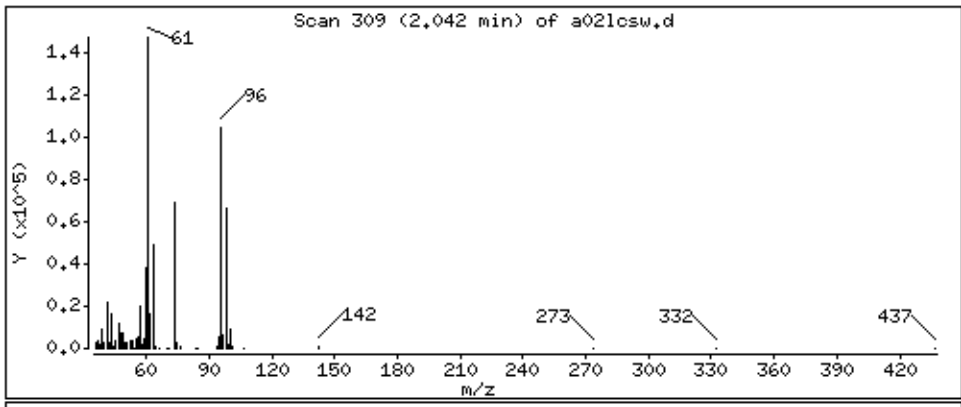
Column phase: DB-624

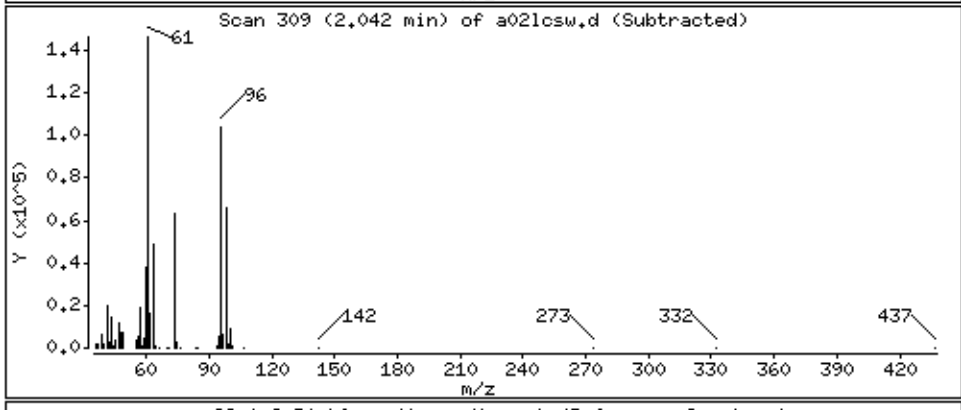
Column diameter: 0.18

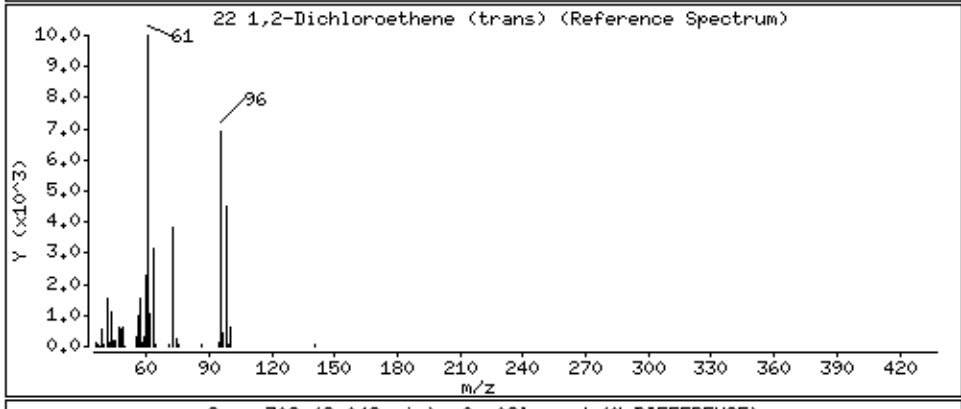
22 1,2-Dichloroethene (trans)

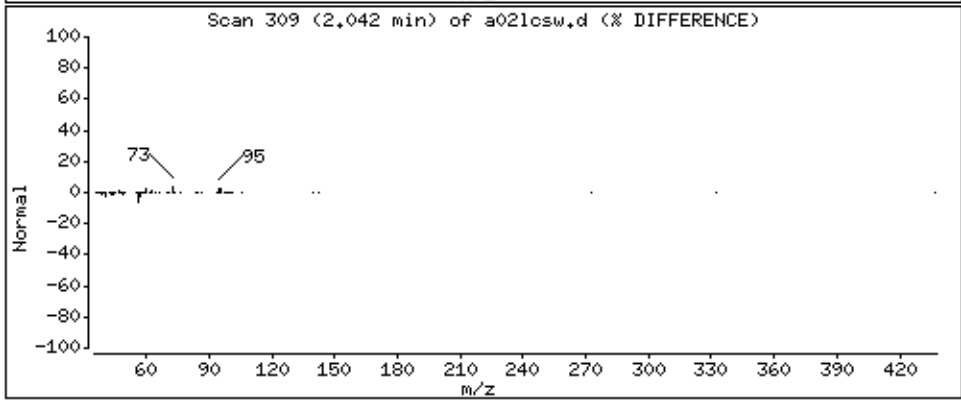
Concentration: 47.2 ppb

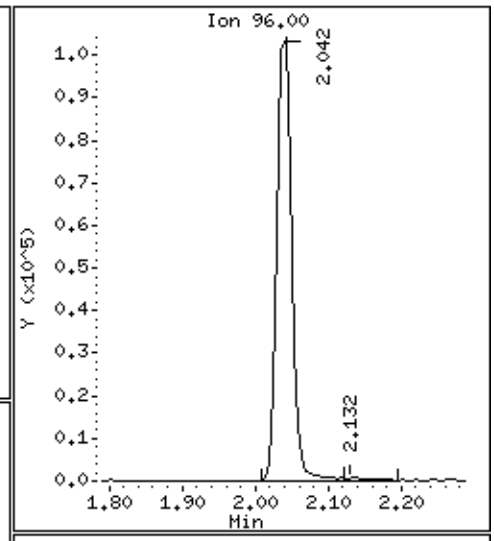
Review Code:

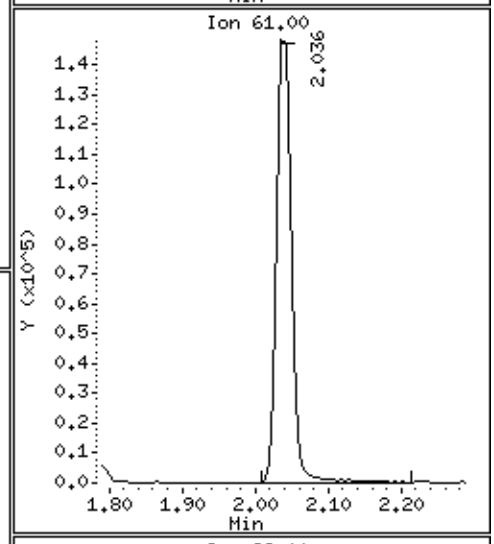


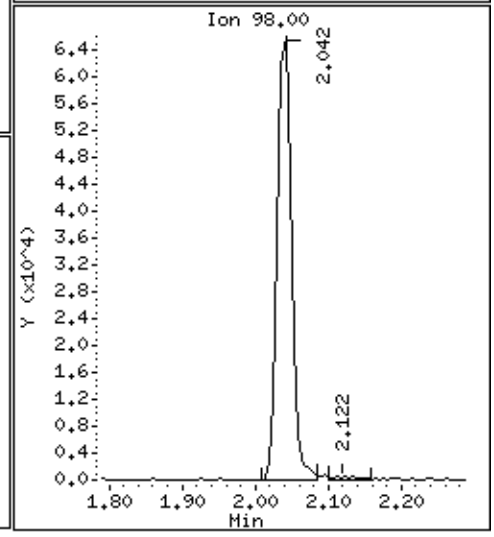












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

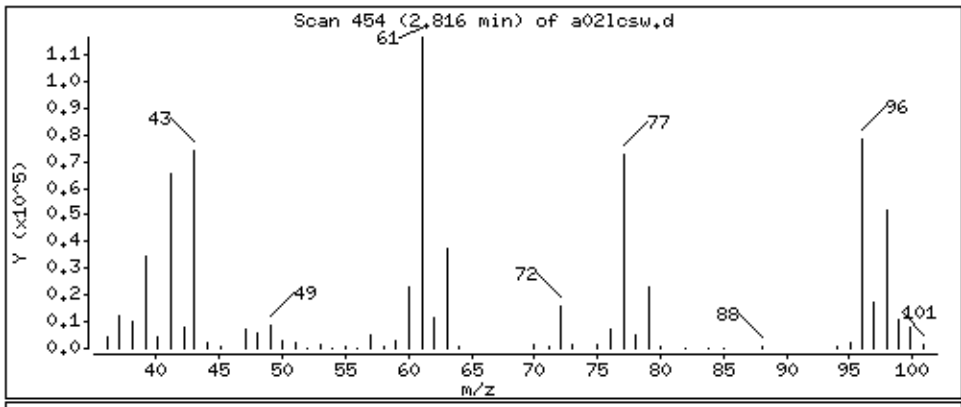
Column phase: DB-624

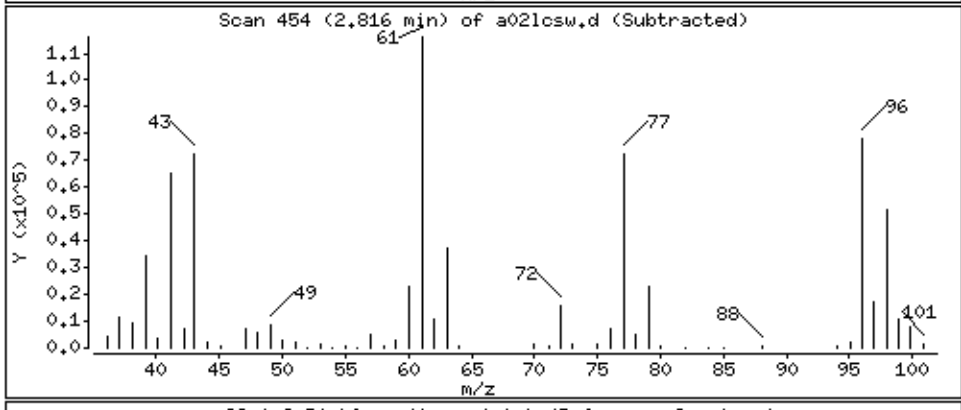
Column diameter: 0.18

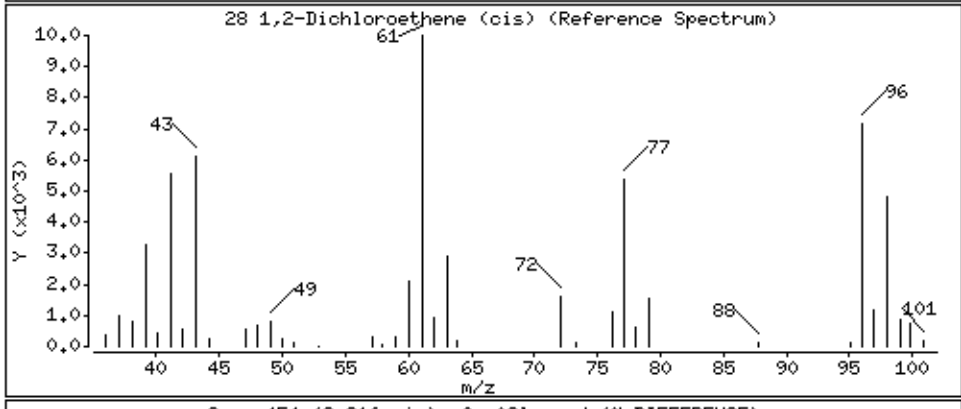
28 1,2-Dichloroethene (cis)

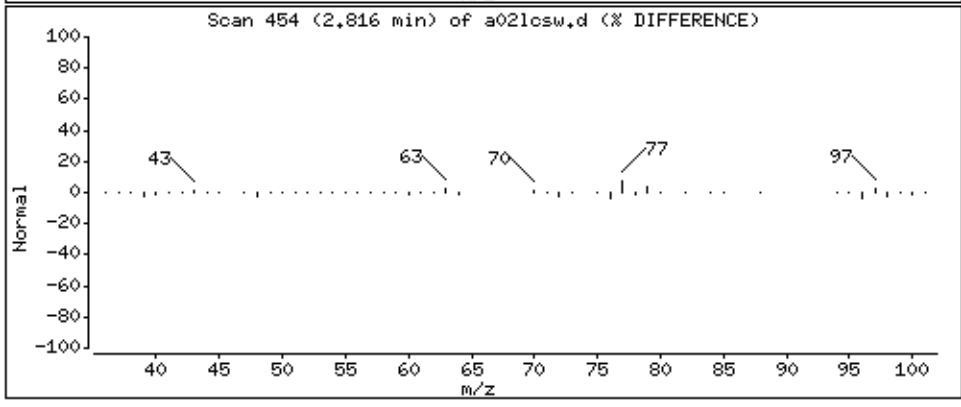
Concentration: 48.3 ppb

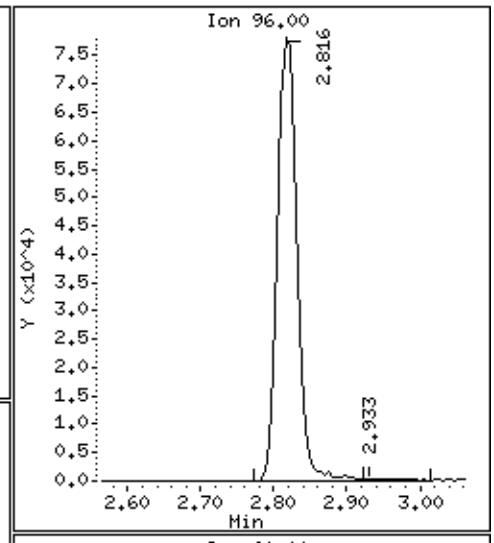
Review Code:

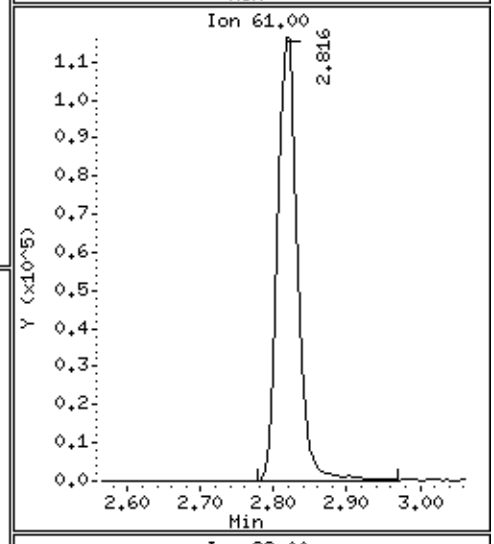


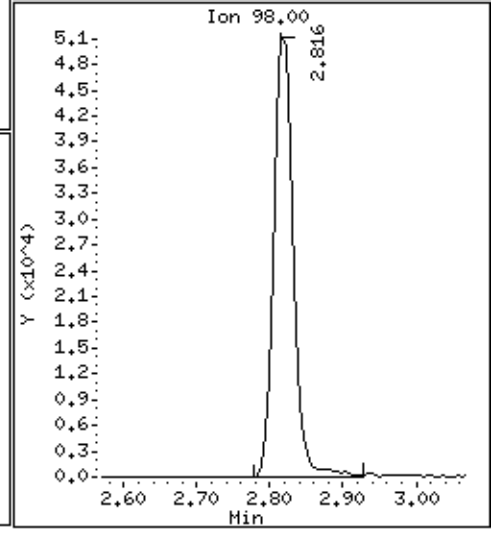












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

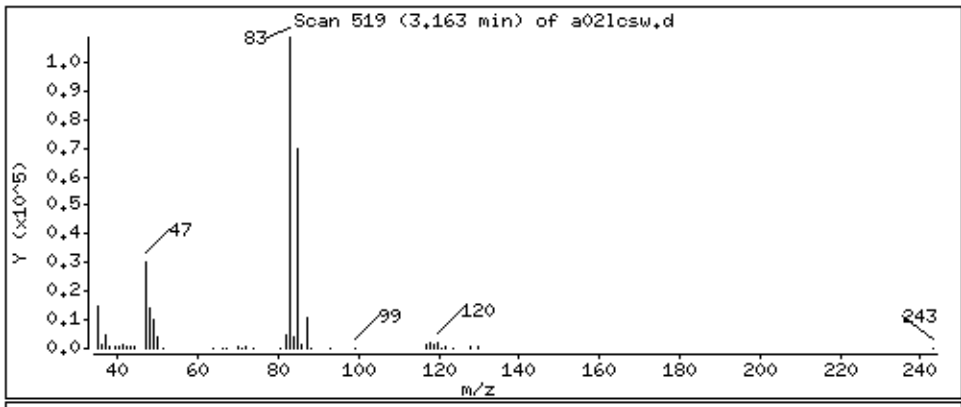
Column phase: DB-624

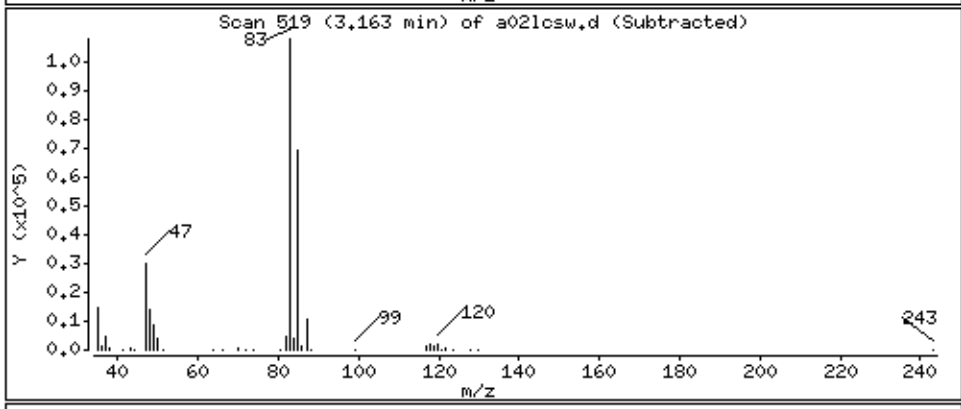
Column diameter: 0.18

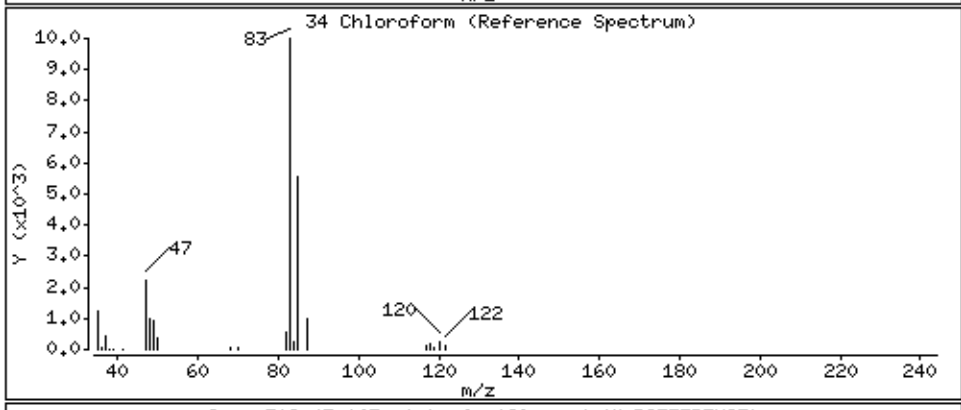
34 Chloroform

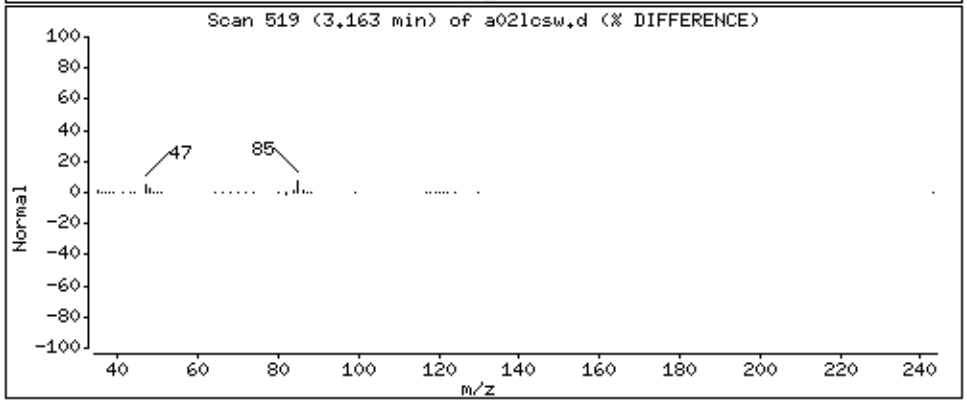
Concentration: 47.7 ppb

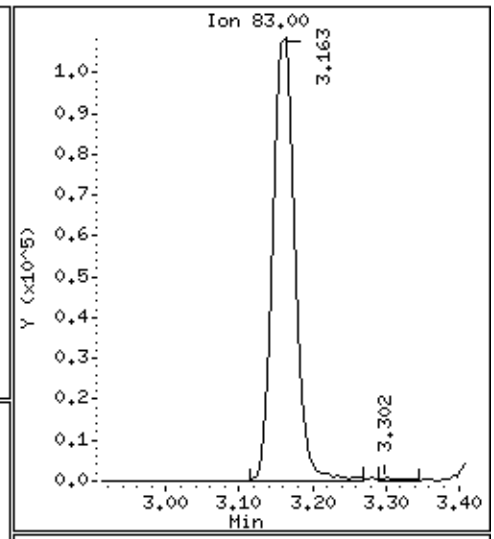
Review Code:

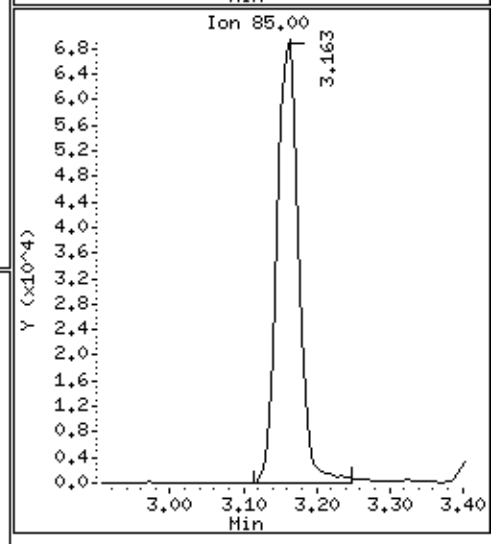












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

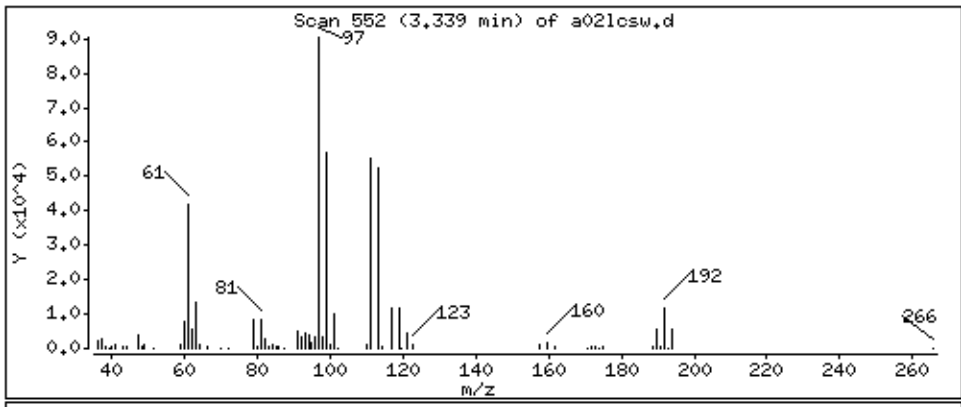
Column phase: DB-624

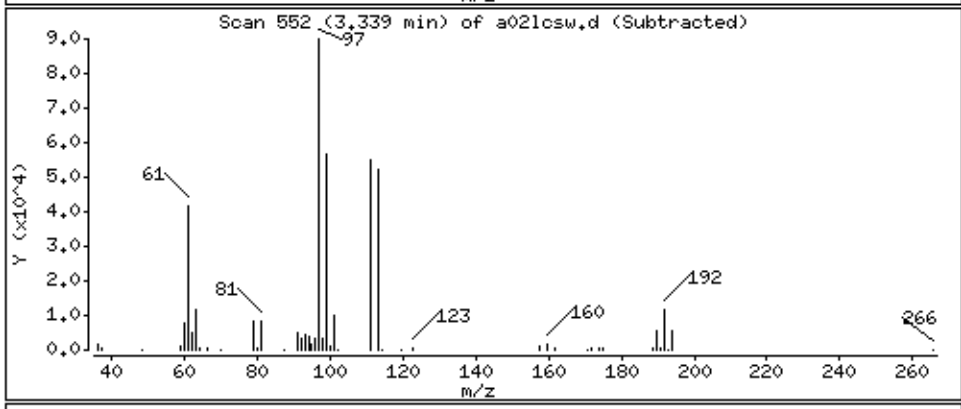
Column diameter: 0.18

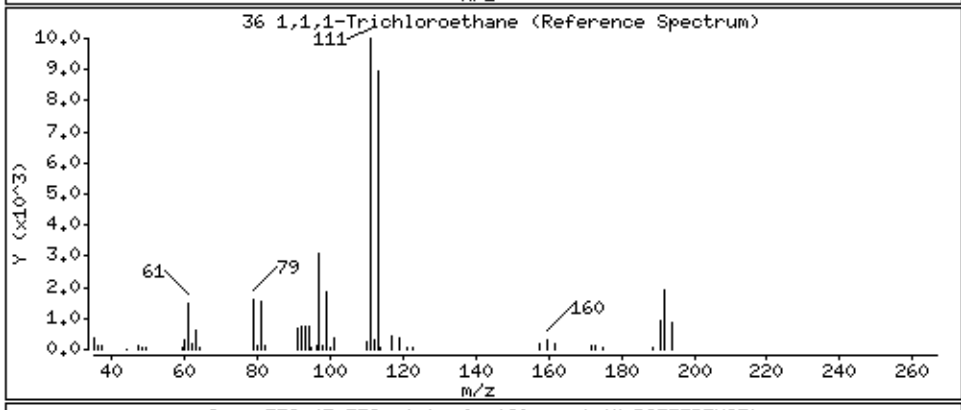
36 1,1,1-Trichloroethane

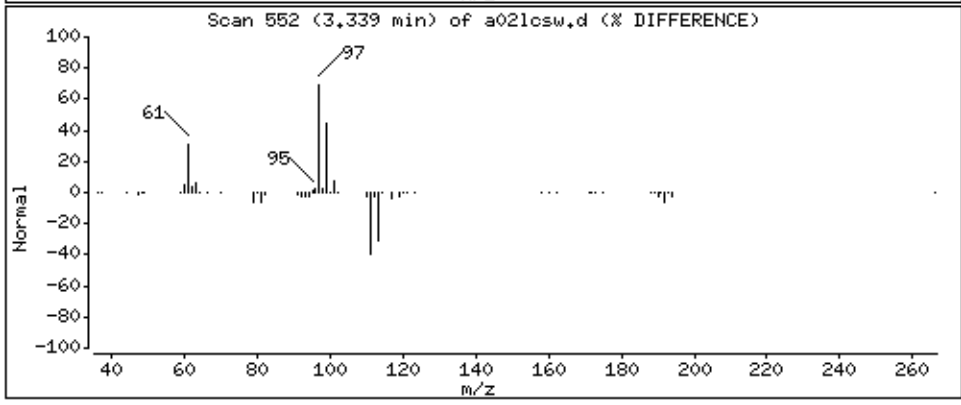
Concentration: 51.6 ppb

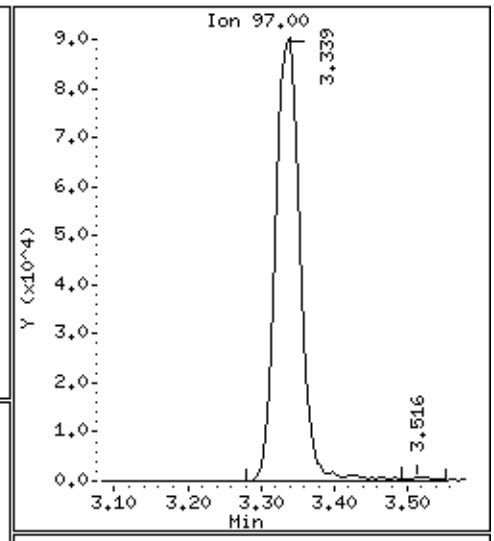
Review Code:

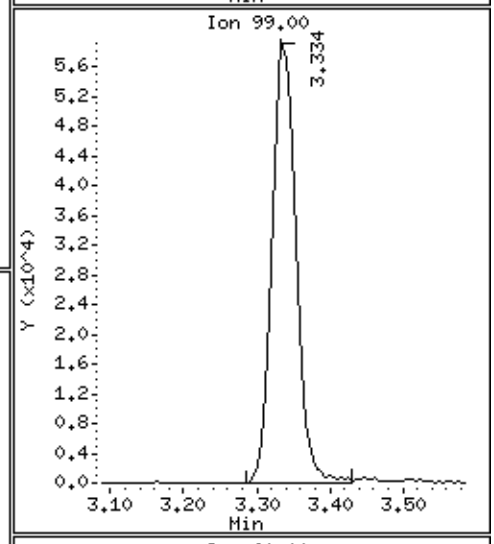


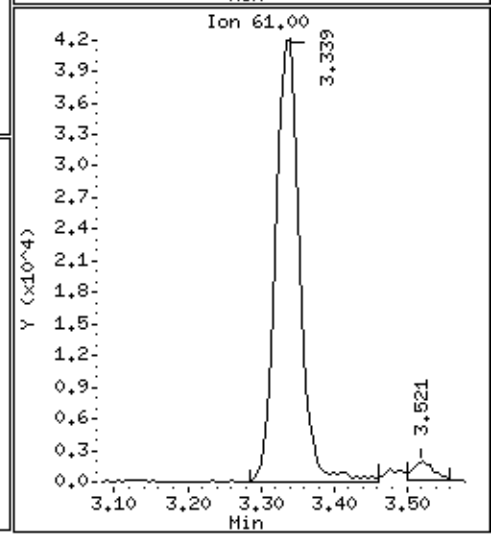












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

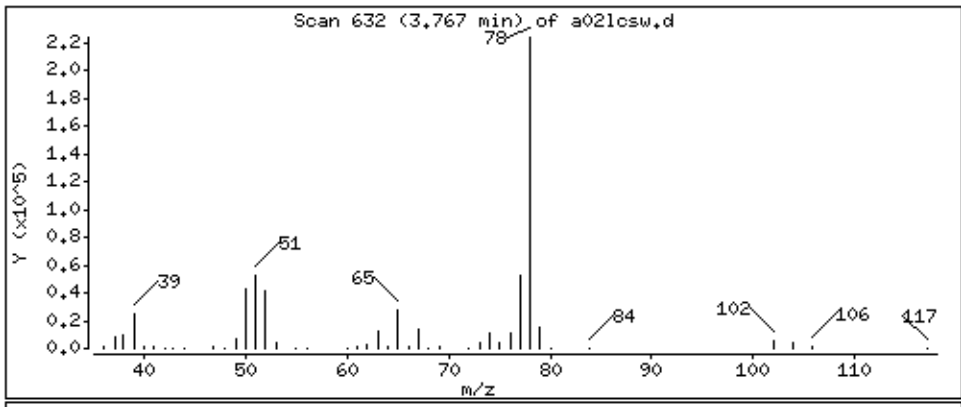
Column phase: DB-624

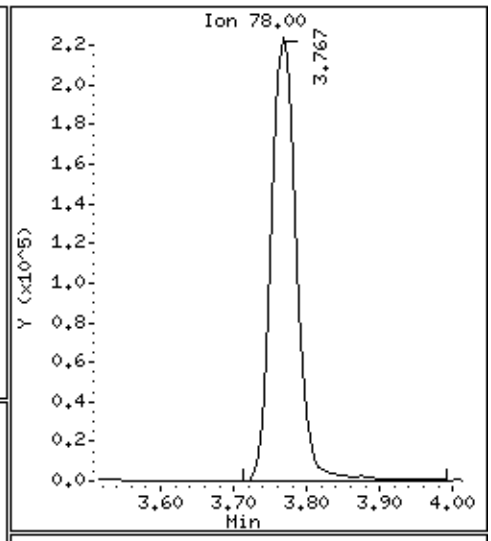
Column diameter: 0.18

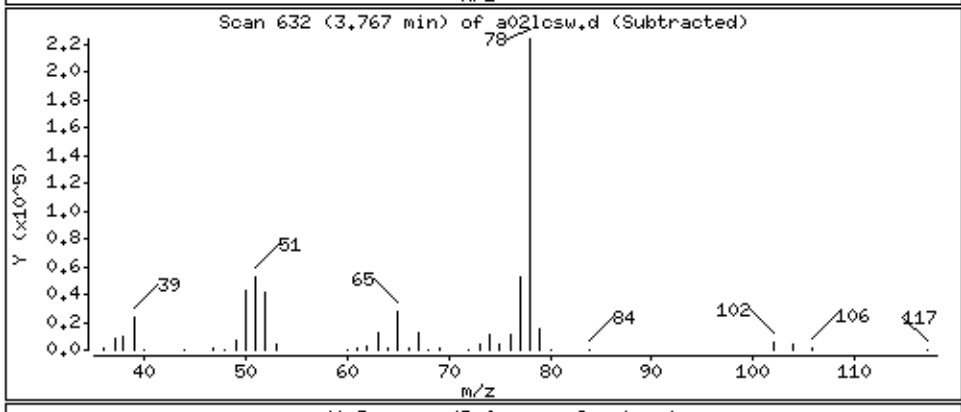
41 Benzene

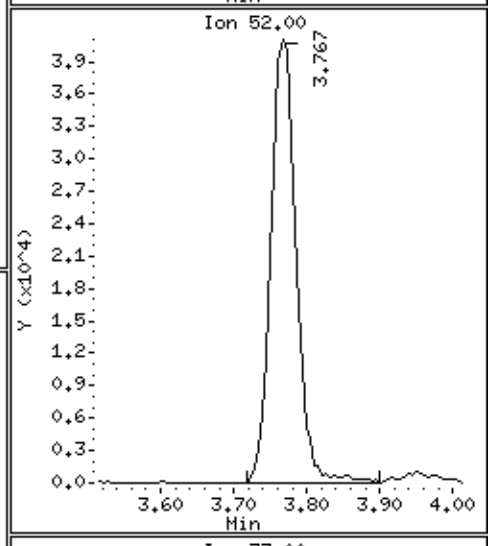
Concentration: 48.1 ppb

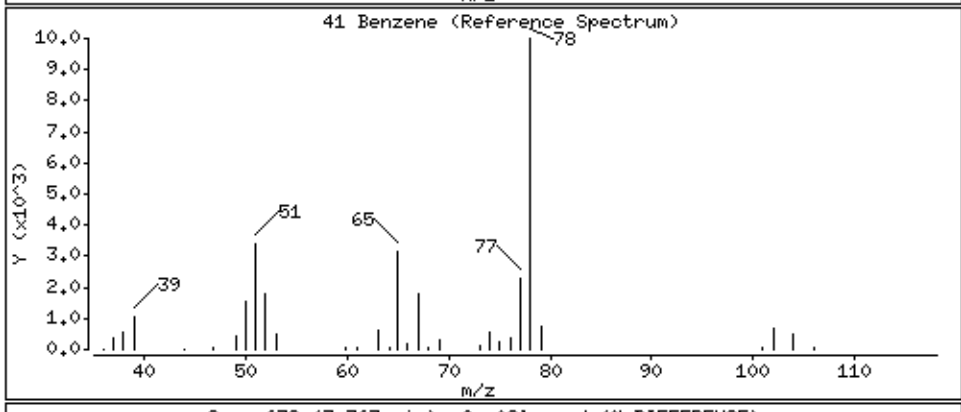
Review Code:

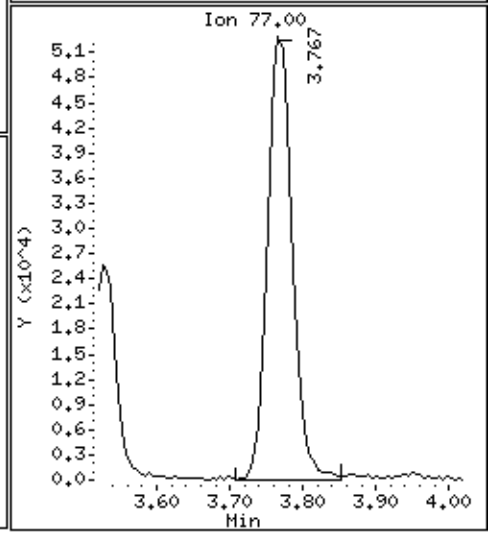


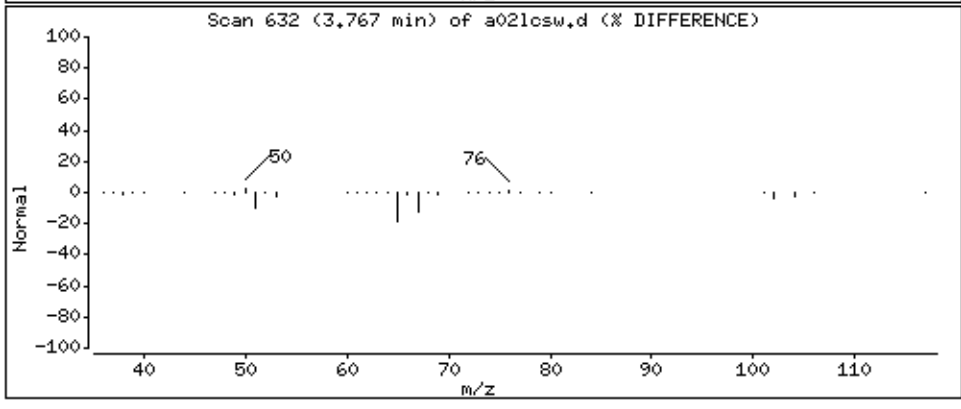












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

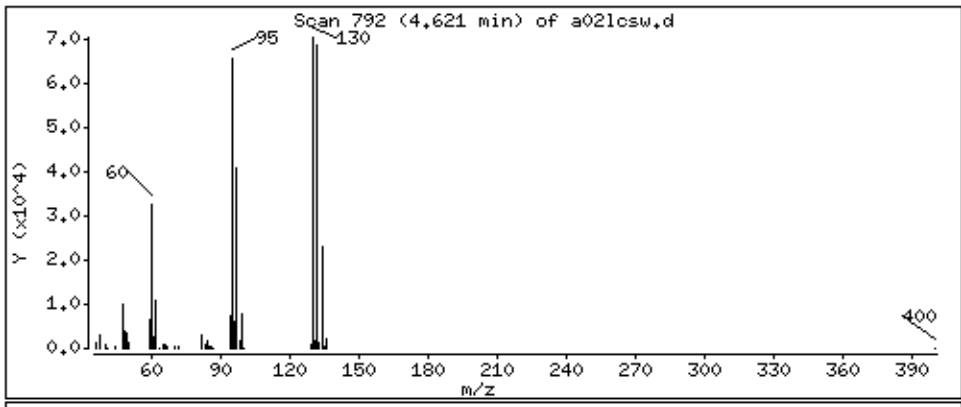
Column phase: DB-624

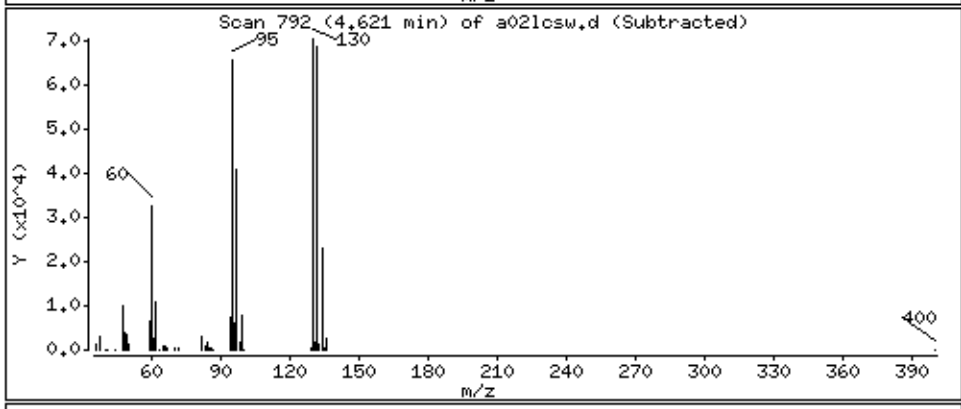
Column diameter: 0.18

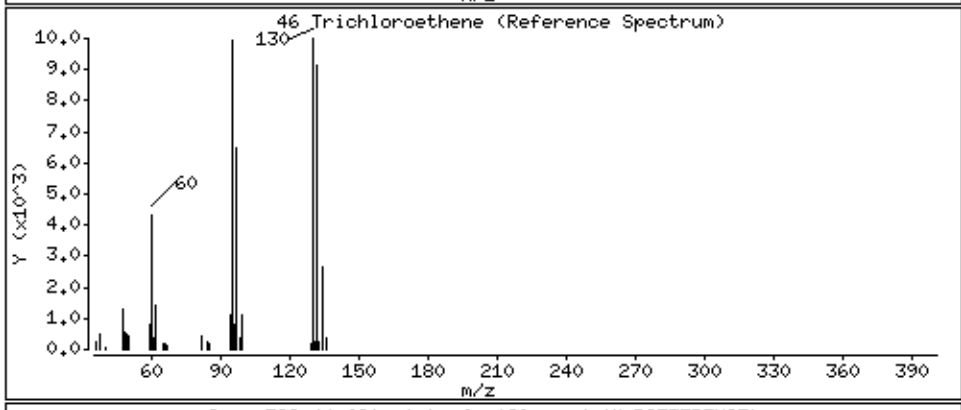
46 Trichloroethene

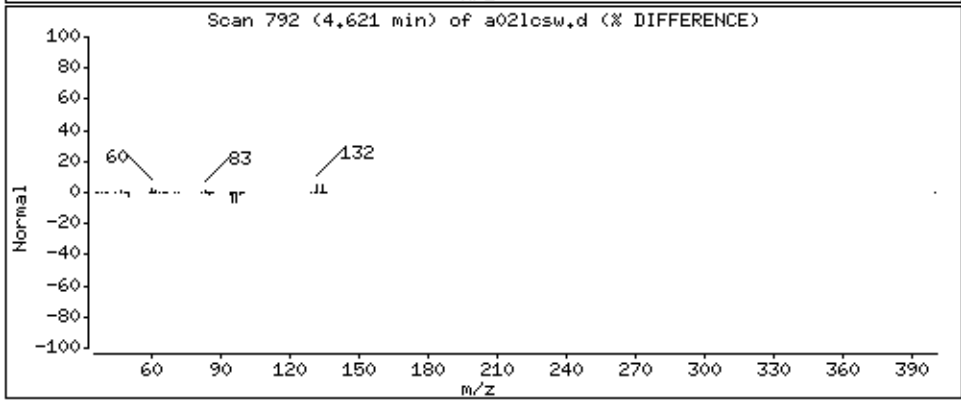
Concentration: 48.3 ppb

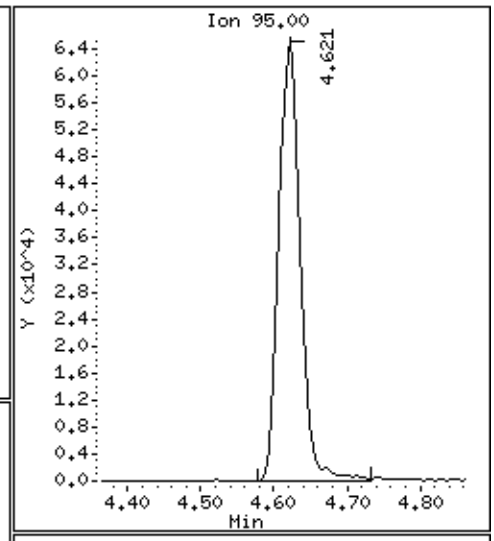
Review Code:

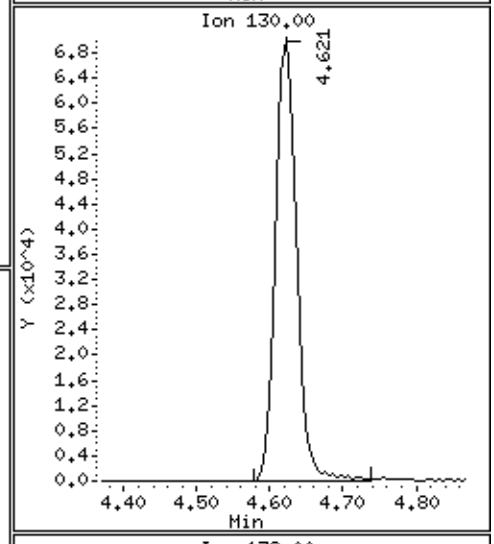


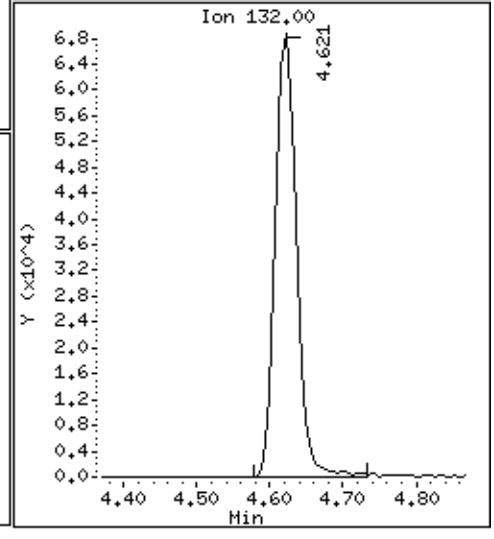












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

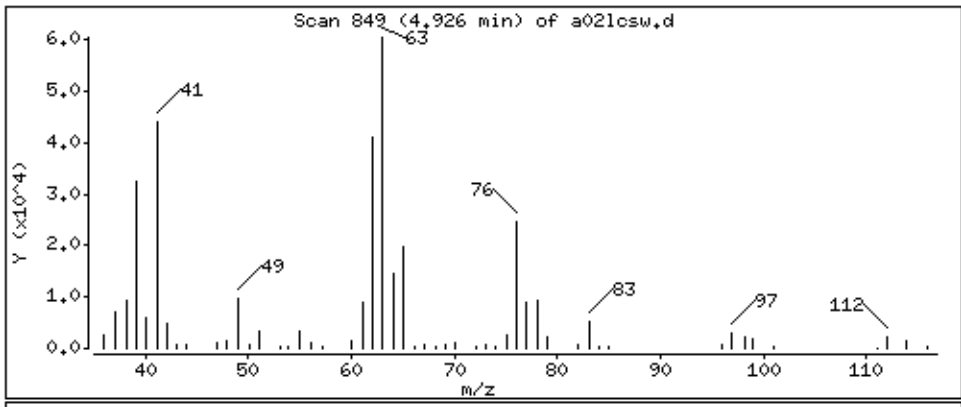
Column phase: DB-624

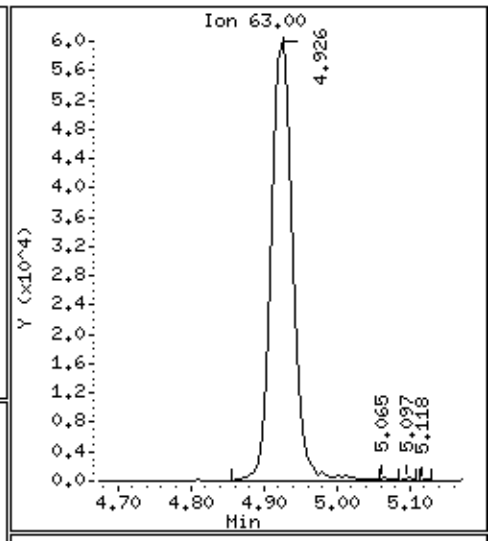
Column diameter: 0.18

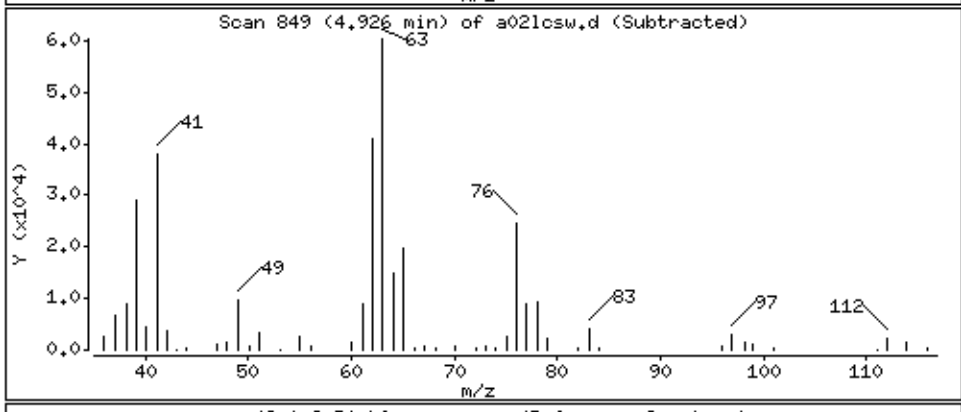
48 1,2-Dichloropropane

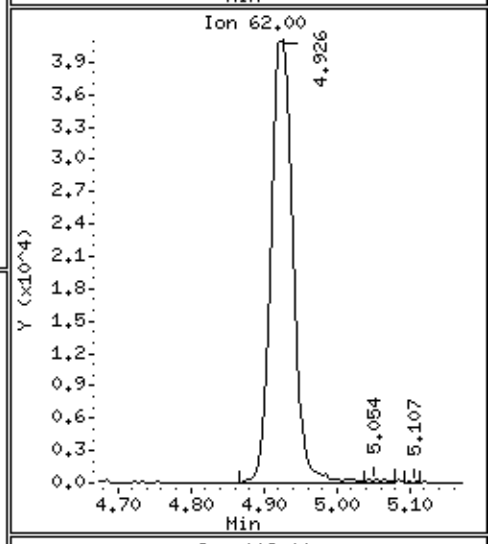
Concentration: 47.6 ppb

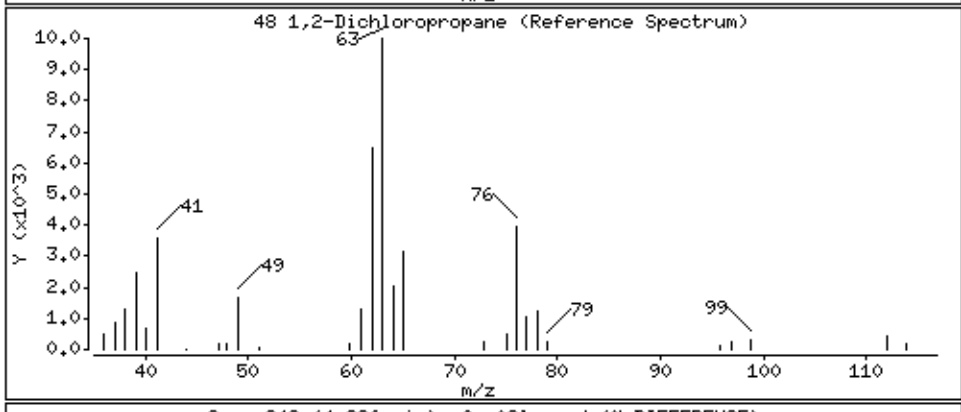
Review Code:

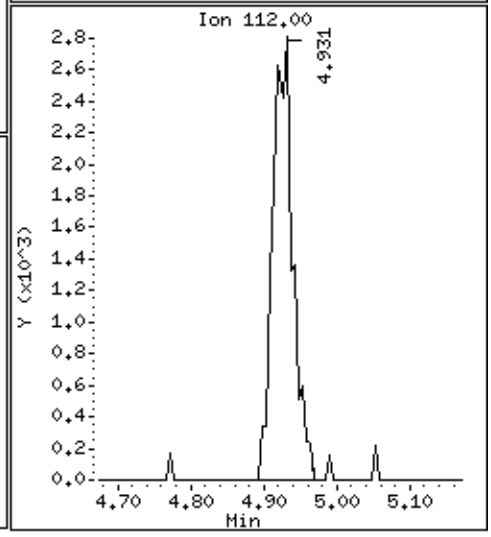


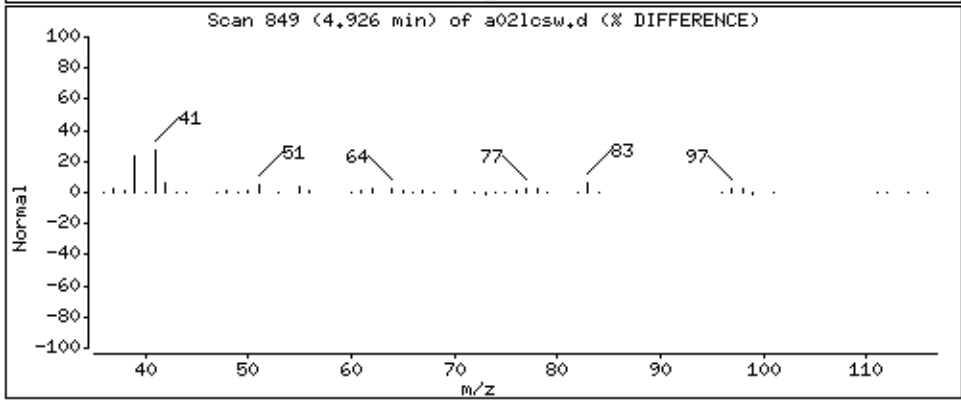












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

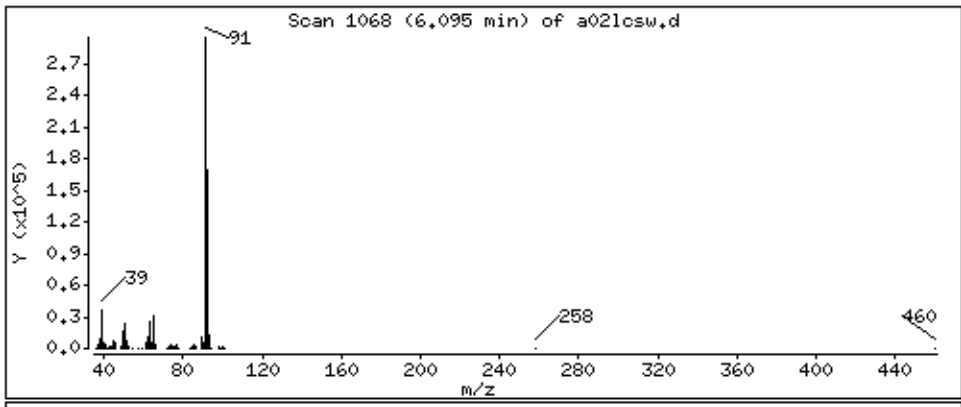
Column phase: DB-624

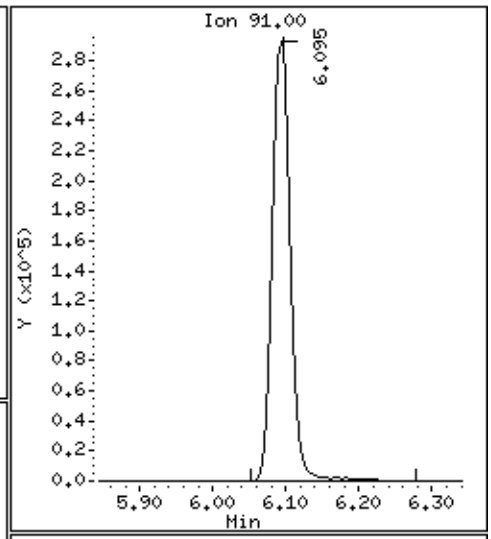
Column diameter: 0.18

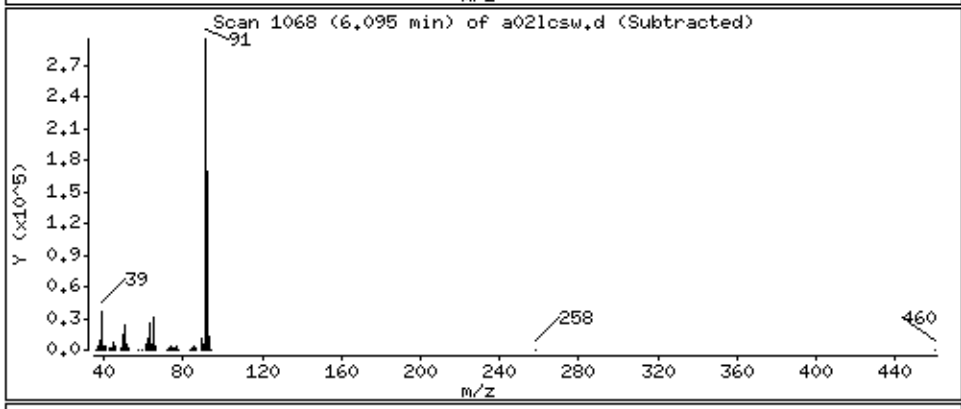
57 Toluene

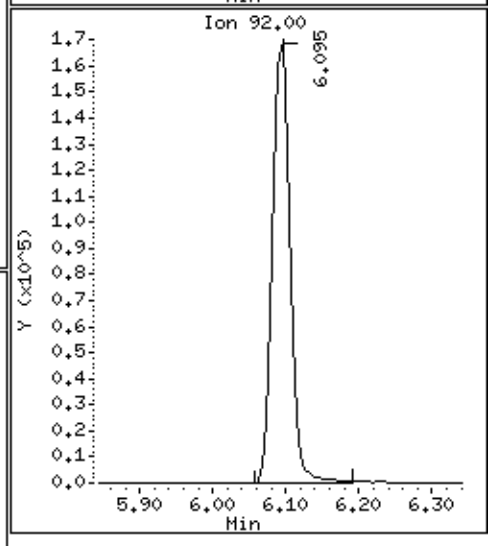
Concentration: 44.7 ppb

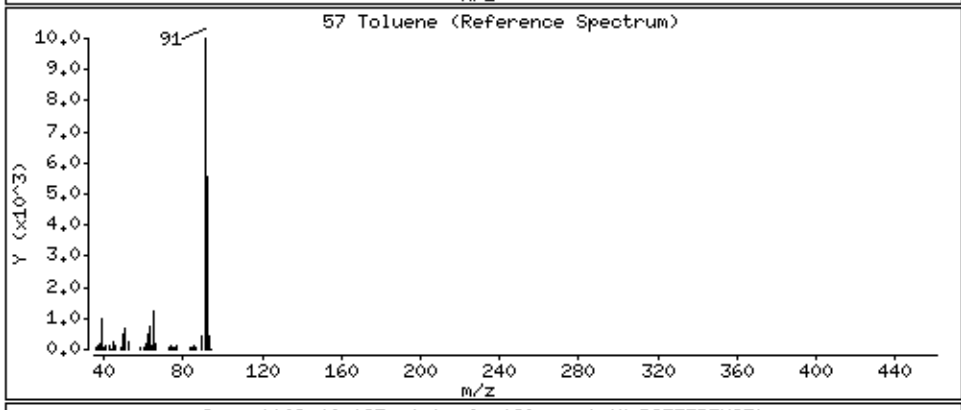
Review Code:

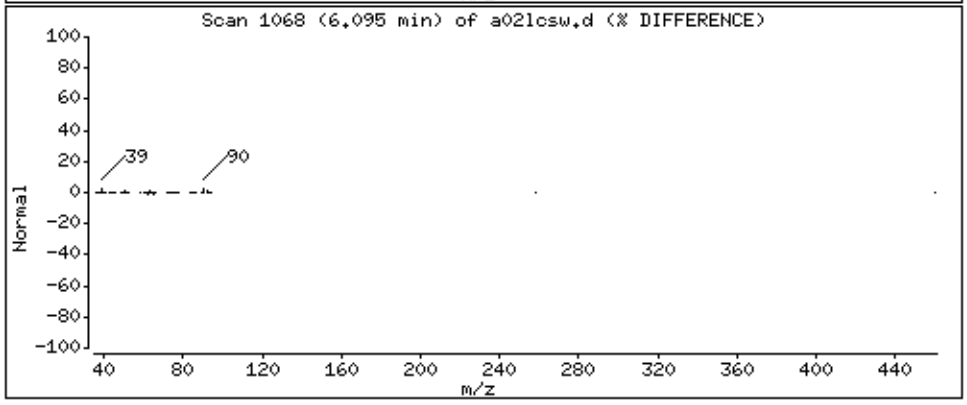












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

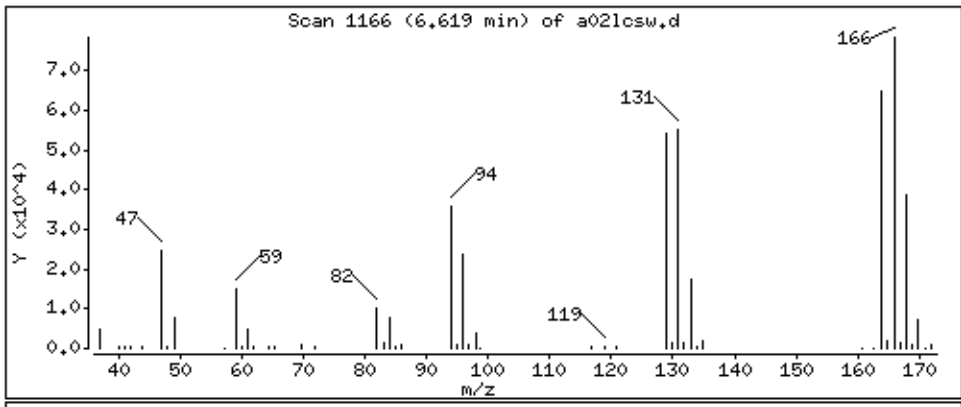
Column phase: DB-624

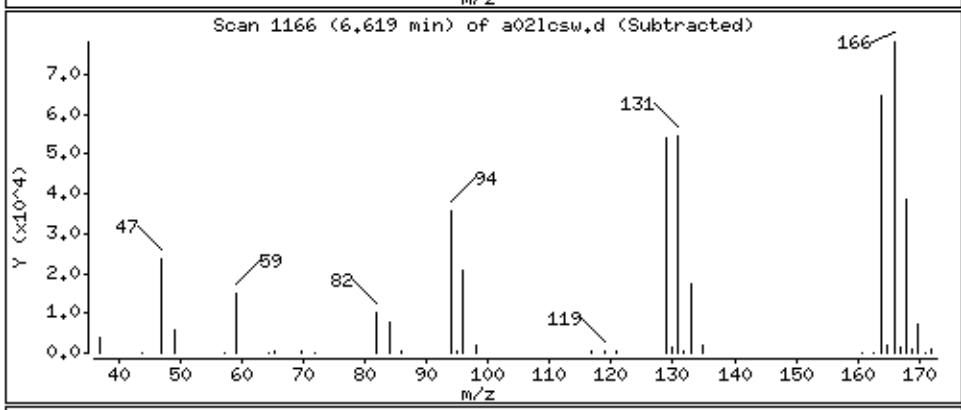
Column diameter: 0.18

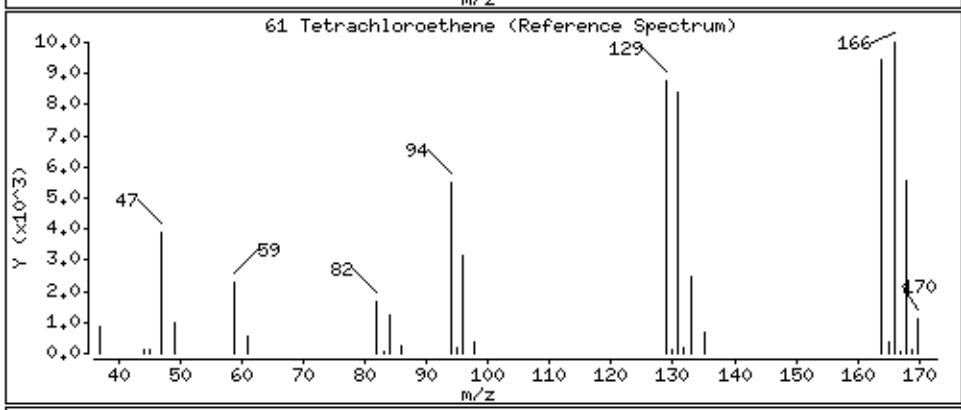
61 Tetrachloroethene

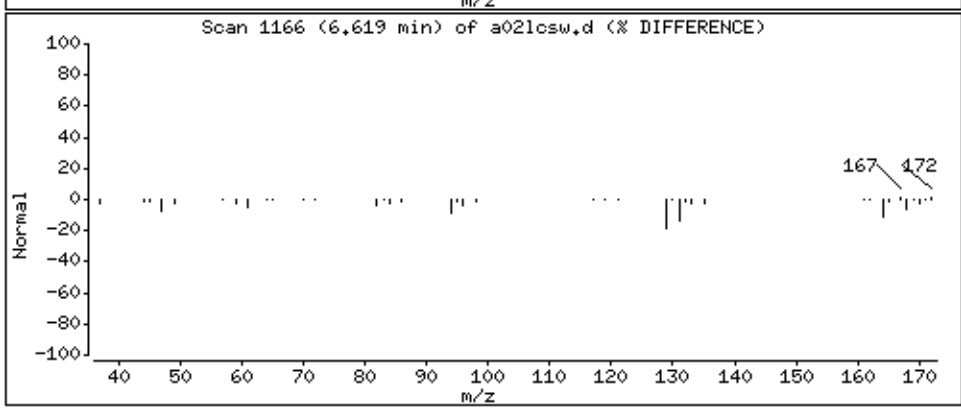
Concentration: 51.6 ppb

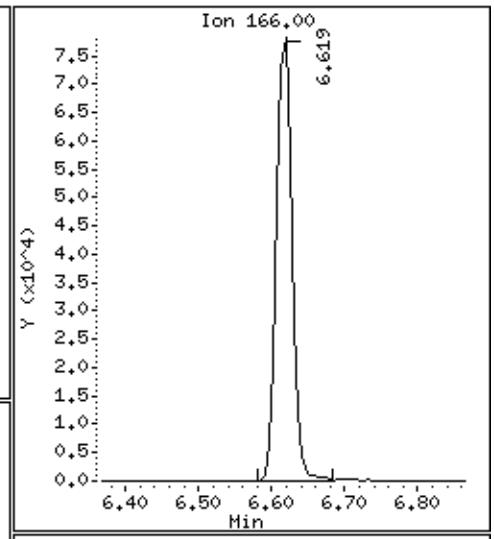
Review Code:

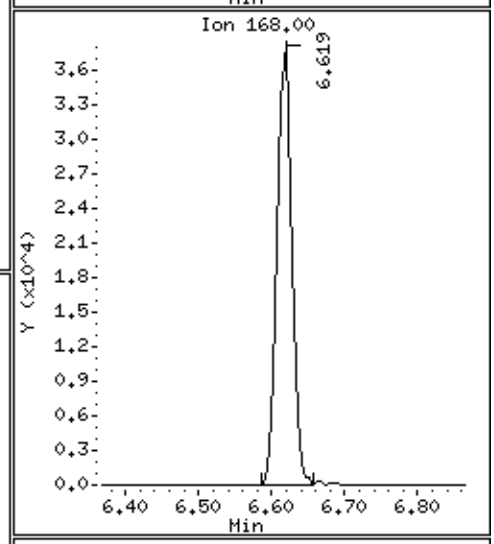


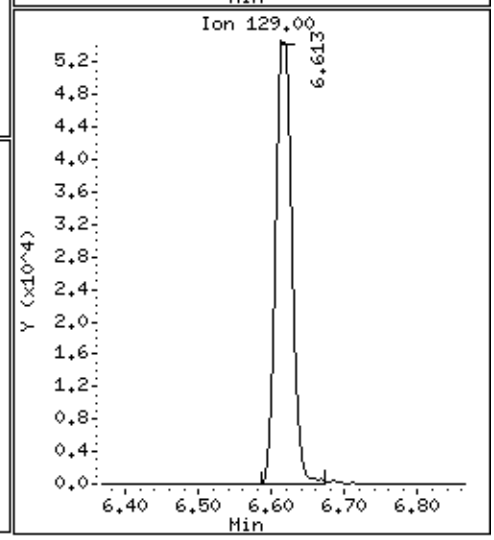












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

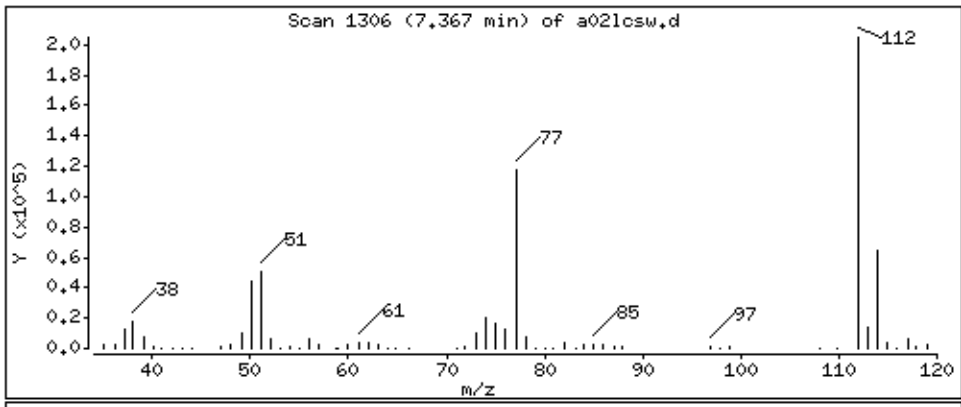
Column phase: DB-624

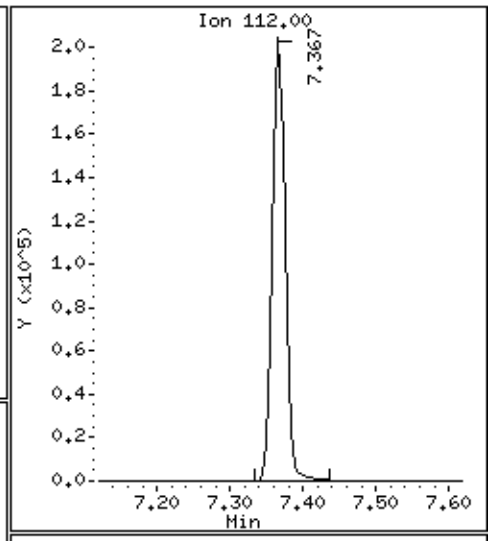
Column diameter: 0.18

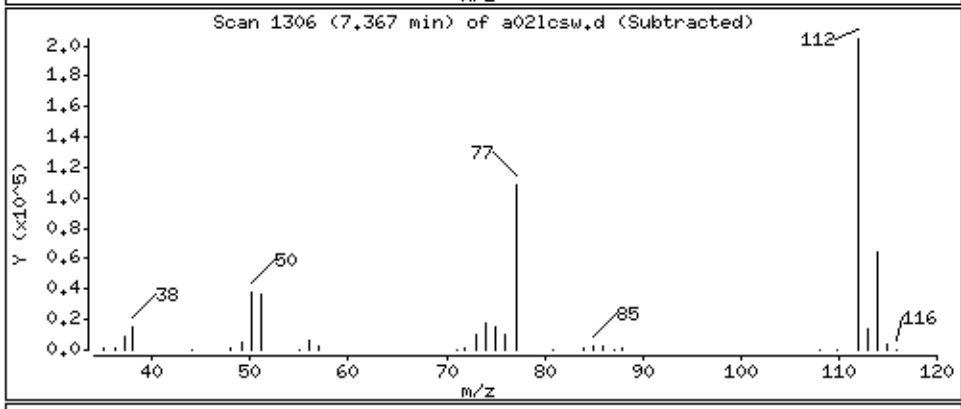
67 Chlorobenzene

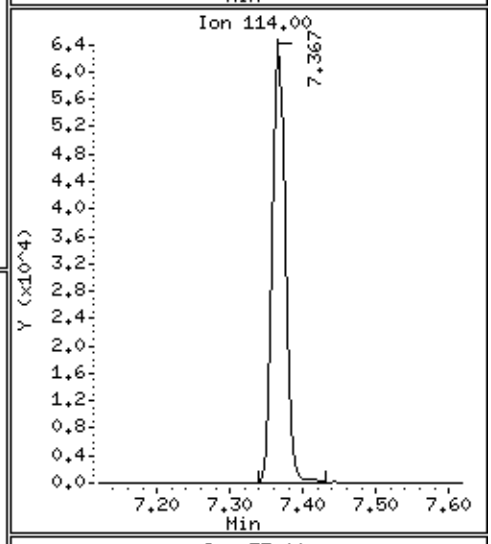
Concentration: 46.9 ppb

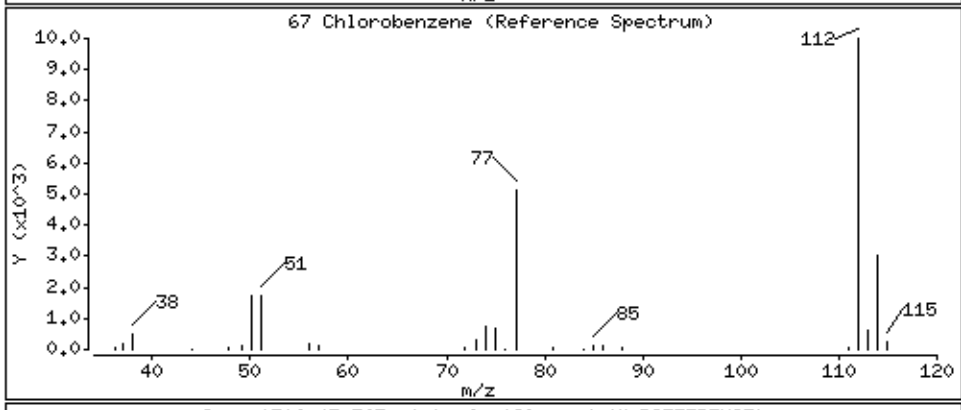
Review Code:

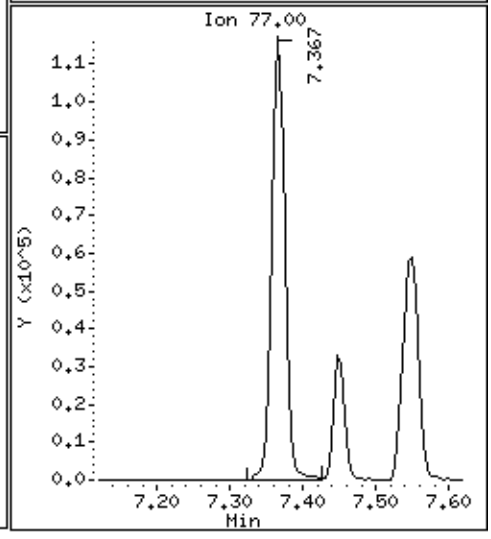


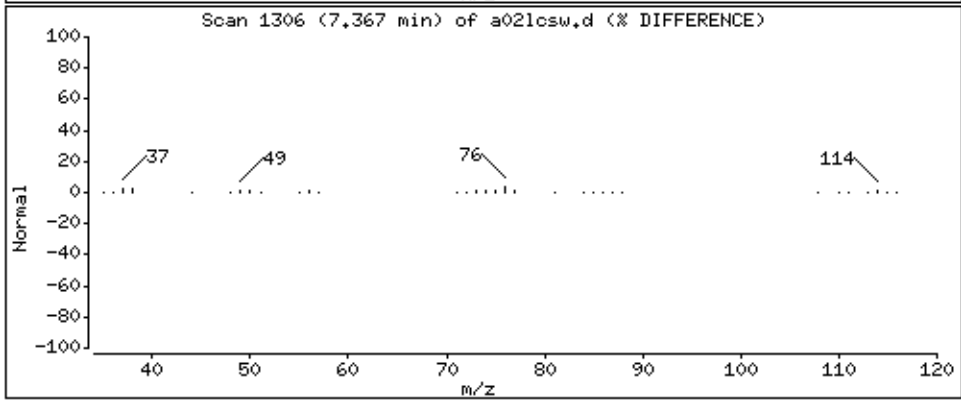












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

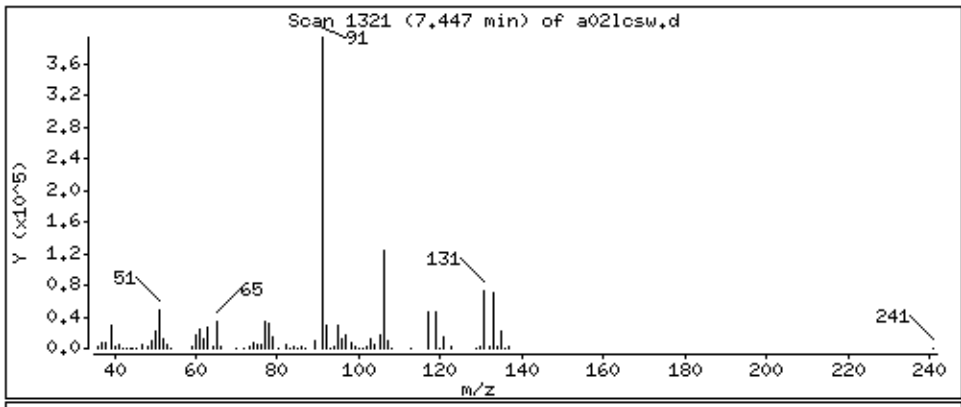
Column phase: DB-624

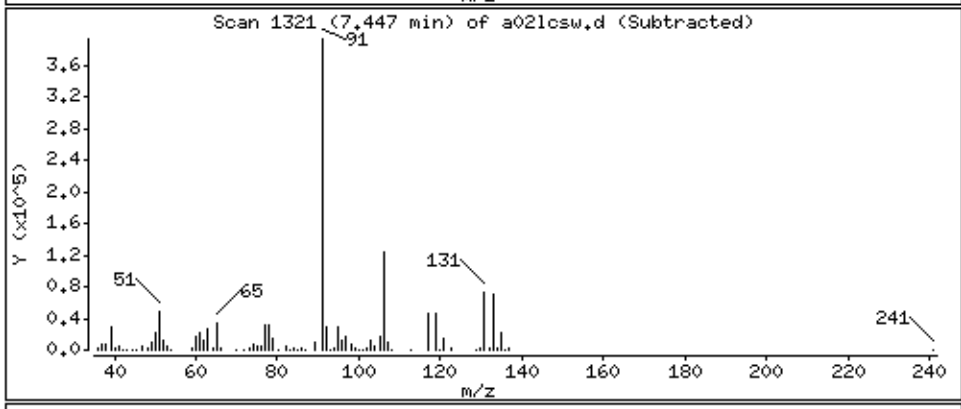
Column diameter: 0.18

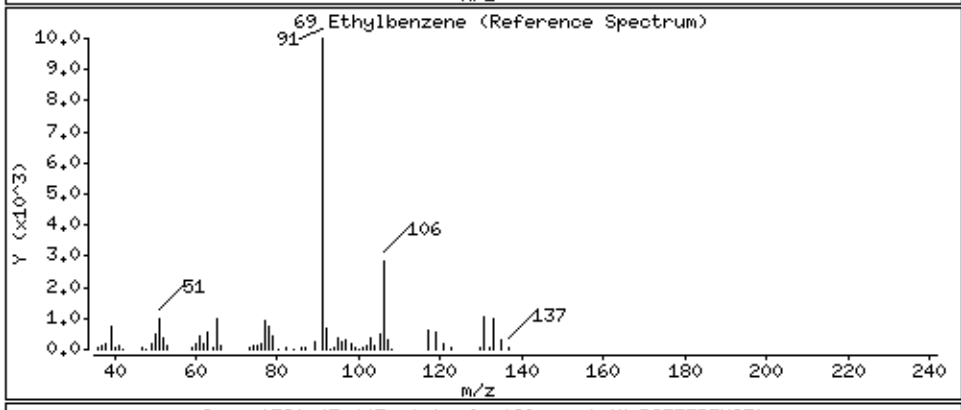
69 Ethylbenzene

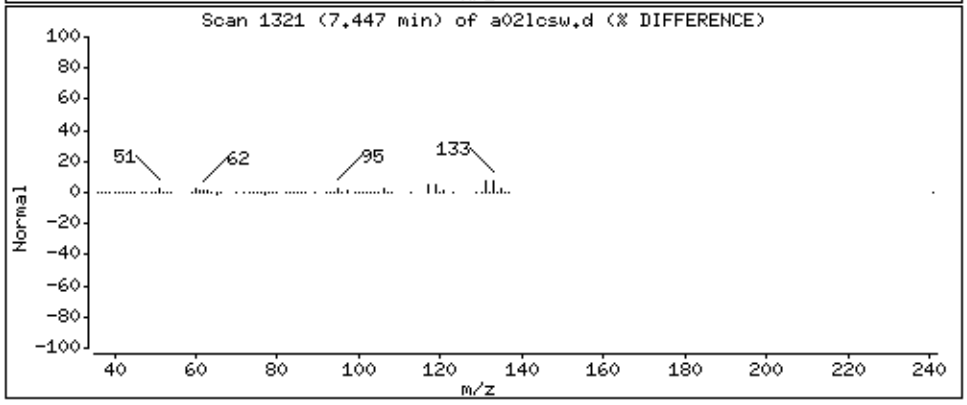
Concentration: 49.4 ppb

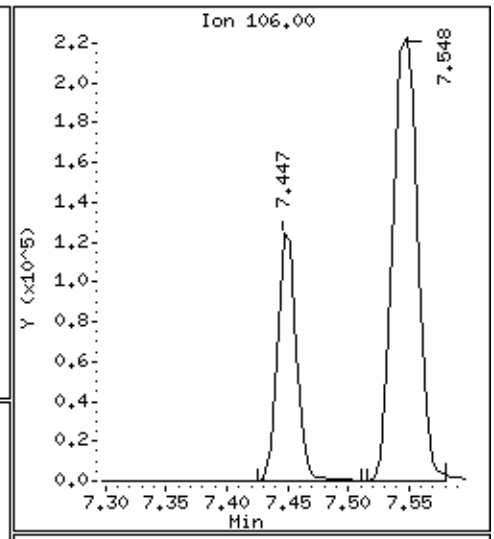
Review Code:

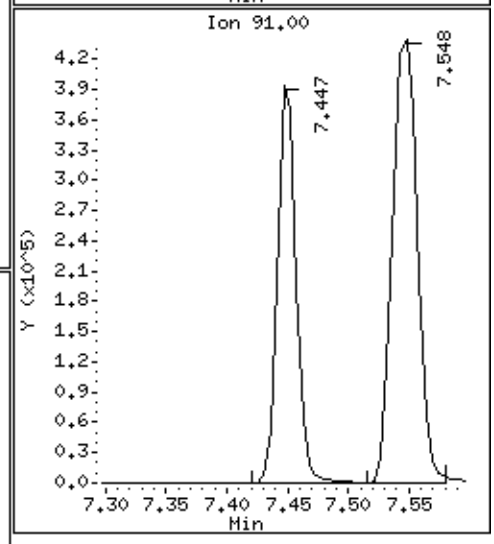












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

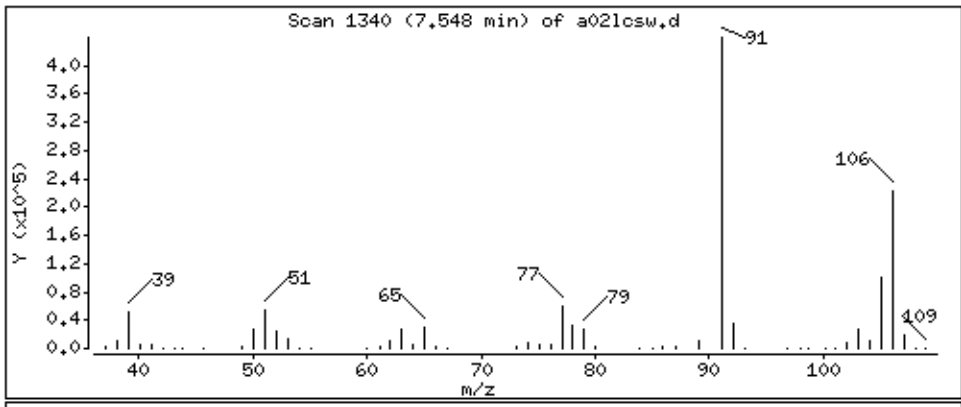
Column phase: DB-624

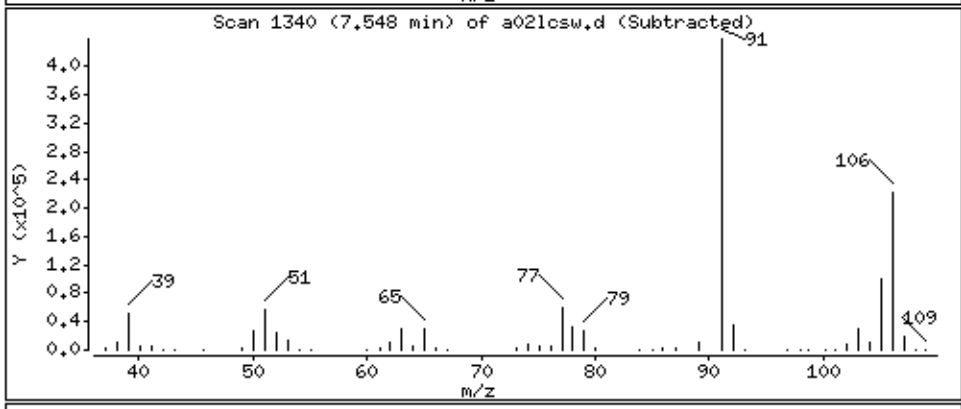
Column diameter: 0.18

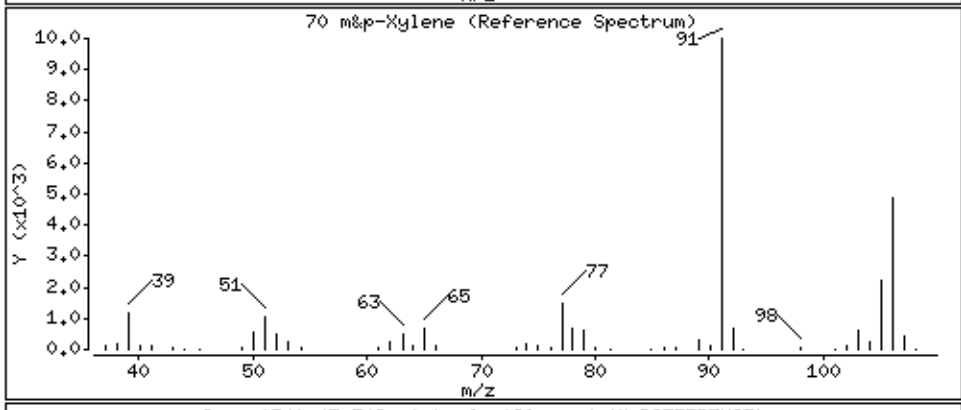
70 m&p-Xylene

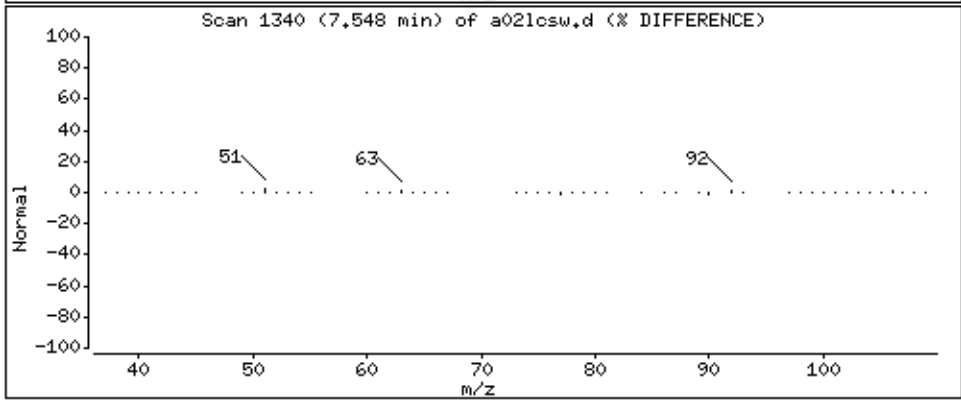
Concentration: 95.6 ppb

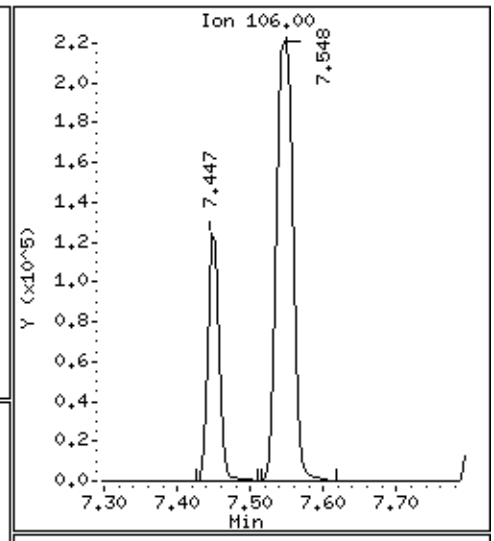
Review Code:

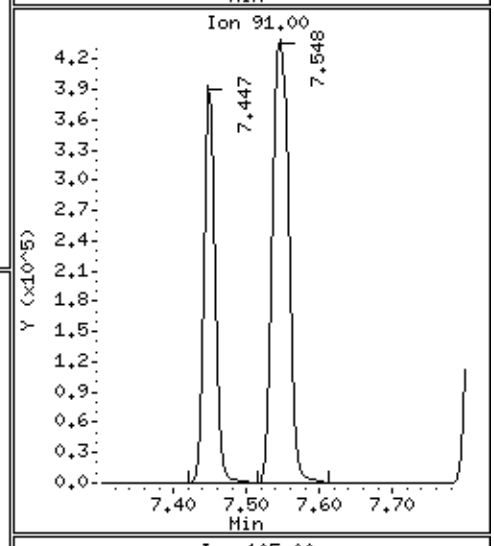


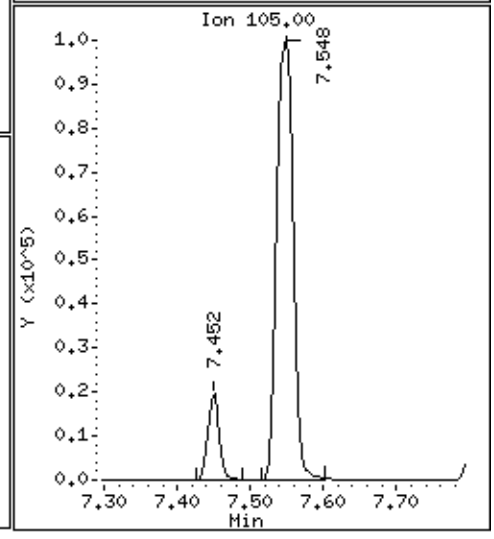












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

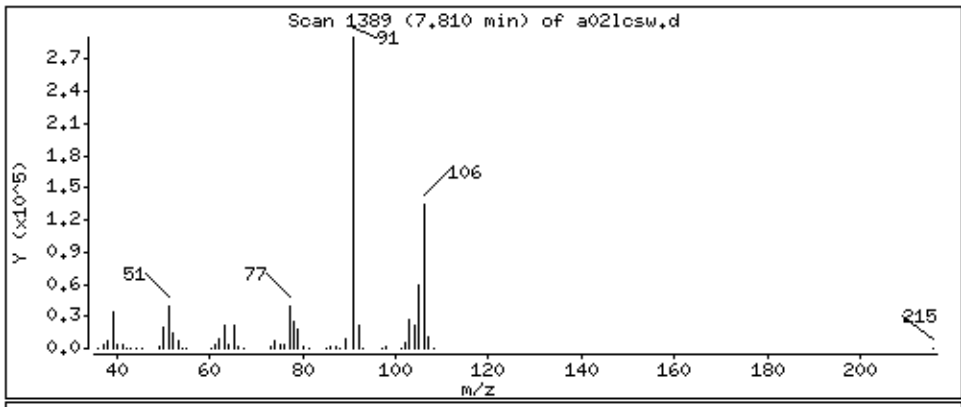
Column phase: DB-624

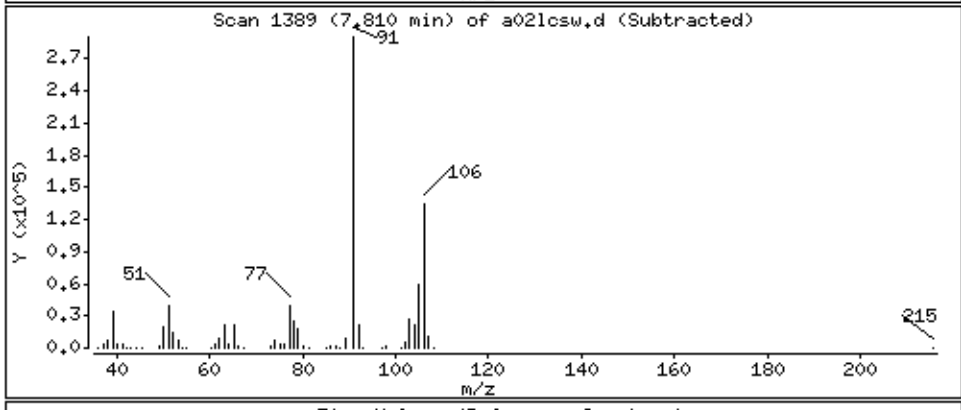
Column diameter: 0.18

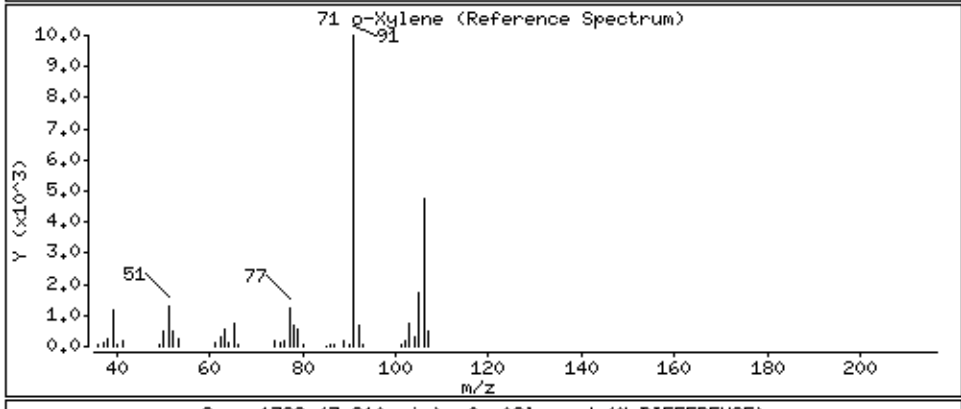
71 o-Xylene

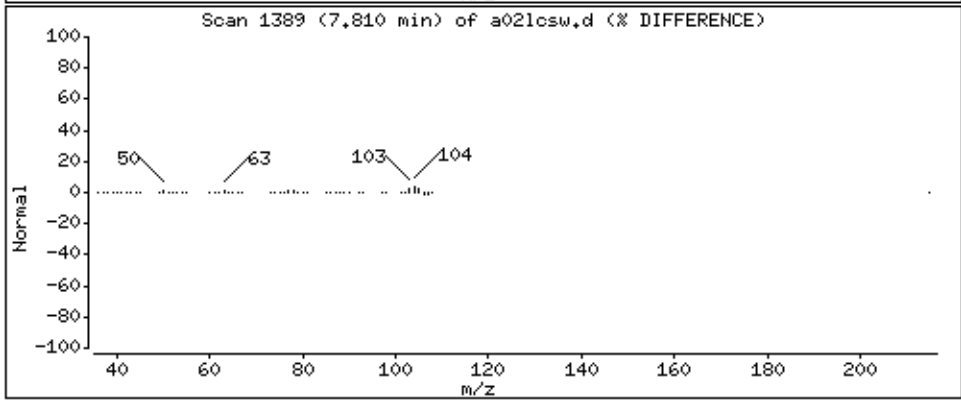
Concentration: 47.5 ppb

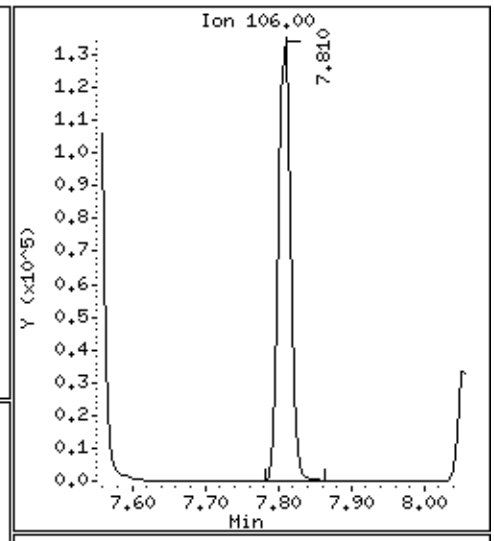
Review Code:

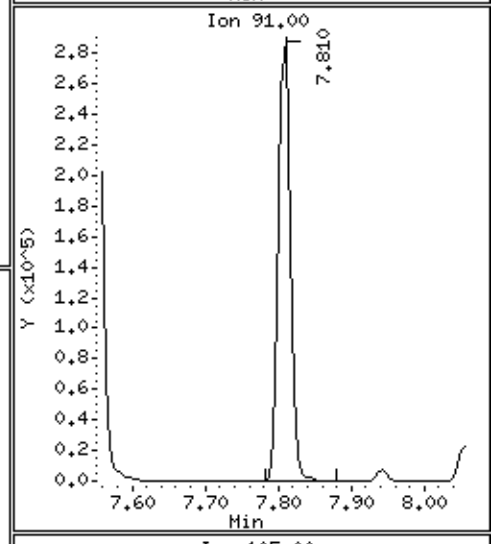


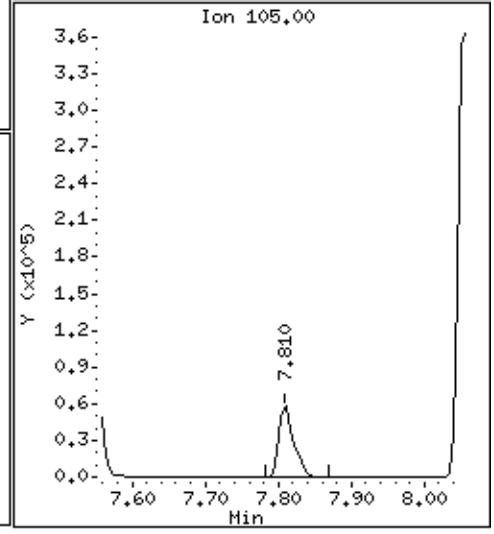












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

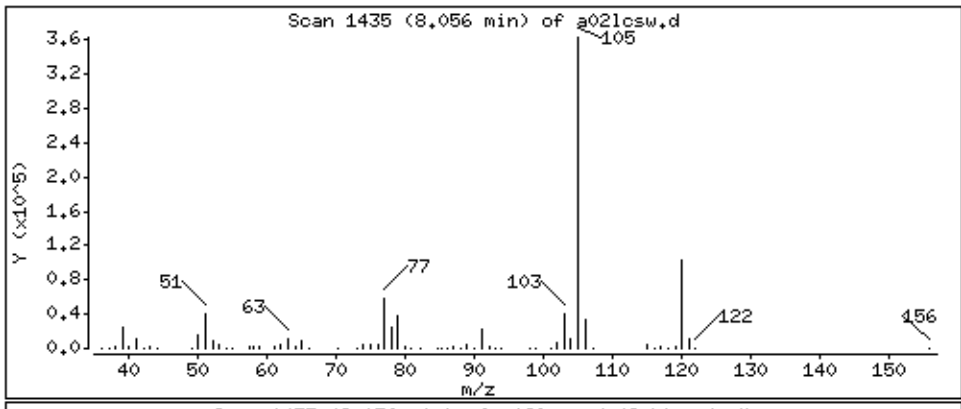
Column phase: DB-624

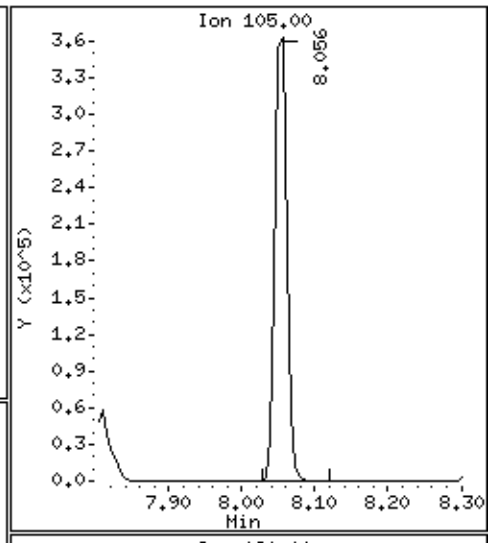
Column diameter: 0.18

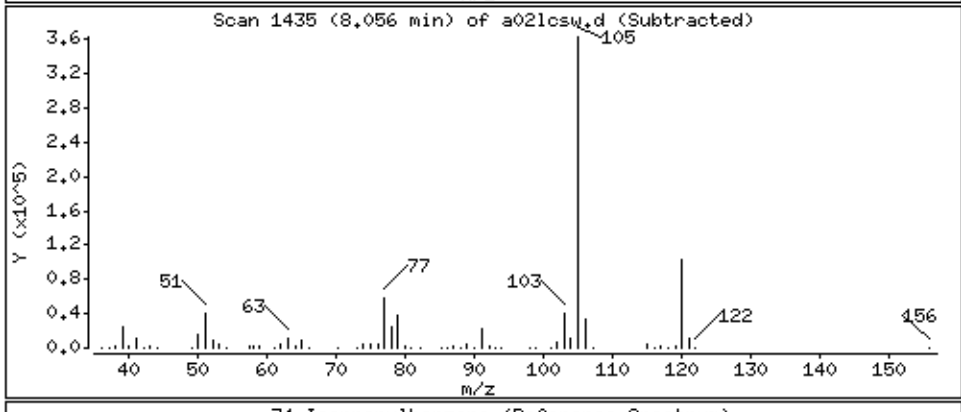
74 Isopropylbenzene

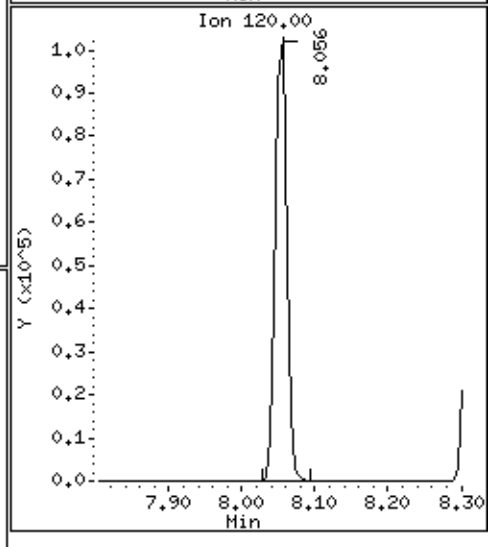
Concentration: 48.7 ppb

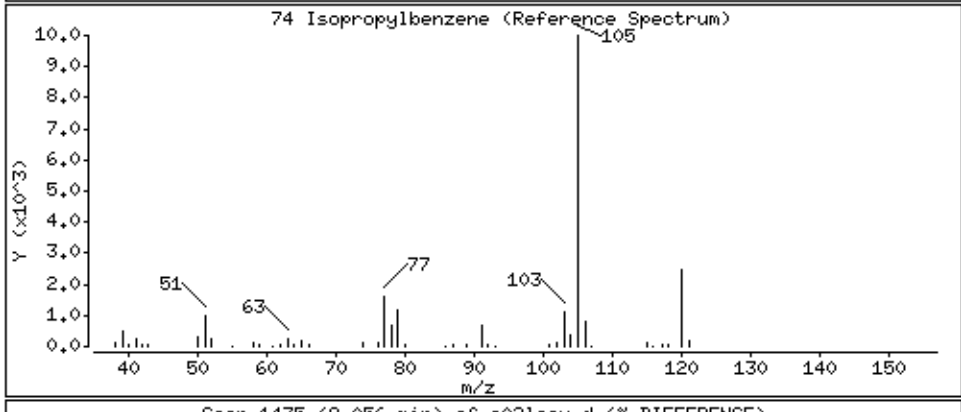
Review Code:

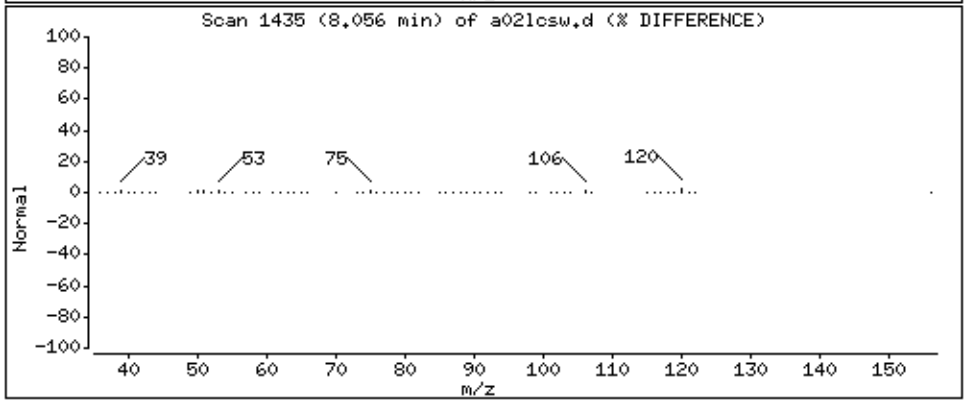












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Page 21

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

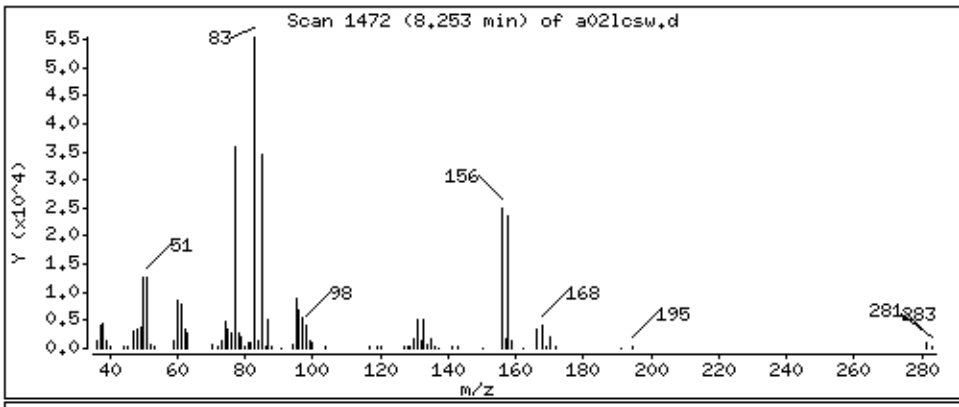
Column phase: DB-624

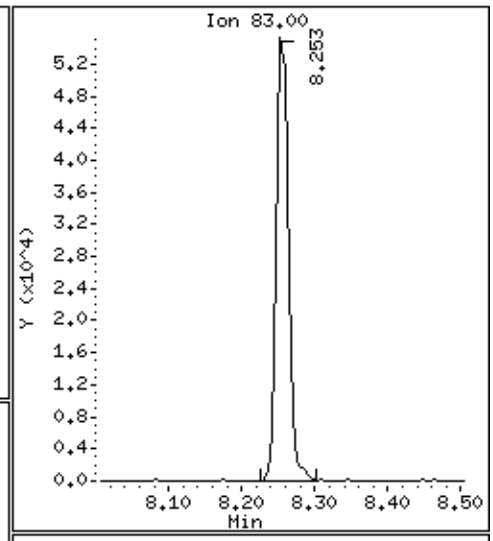
Column diameter: 0.18

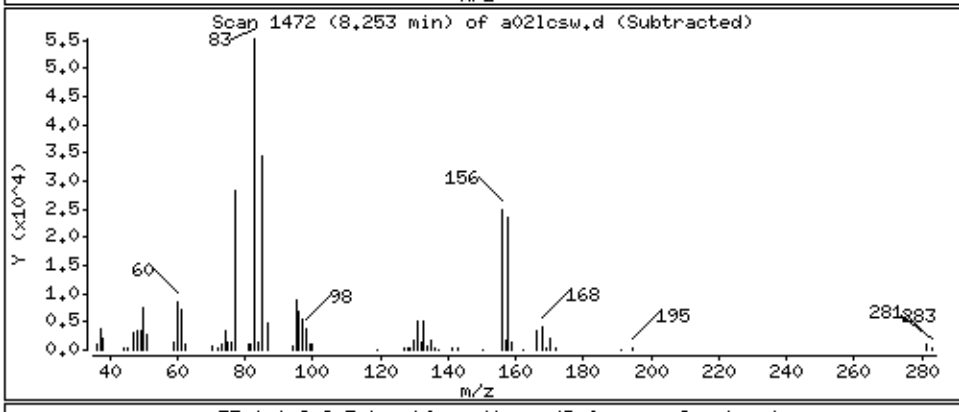
77 1,1,2,2-Tetrachloroethane

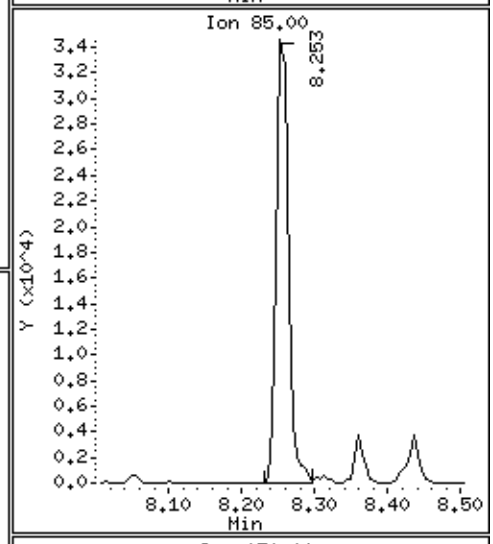
Concentration: 45.4 ppb

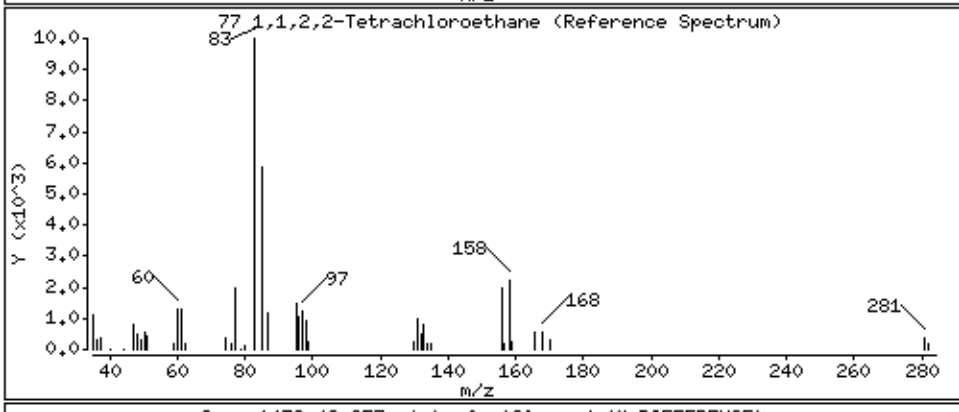
Review Code:

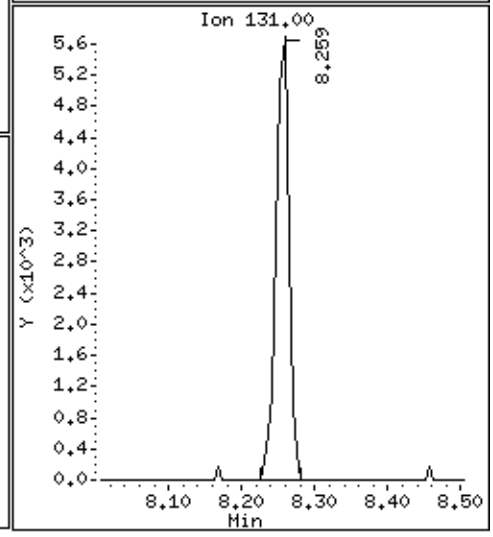


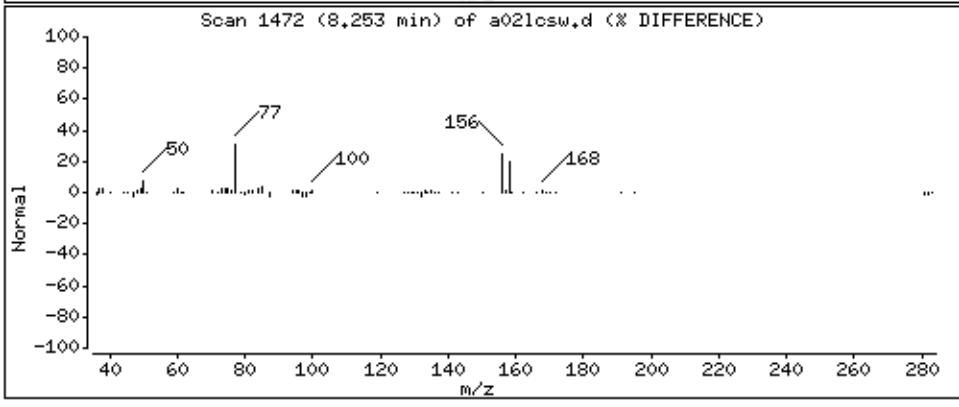












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

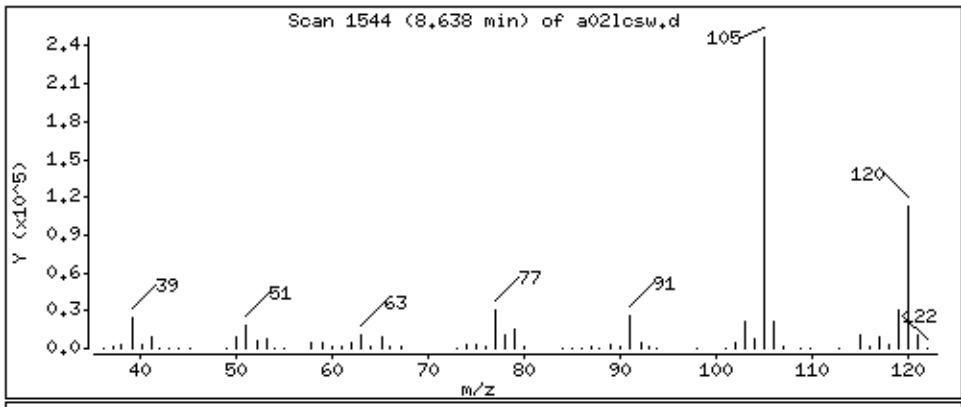
Column phase: DB-624

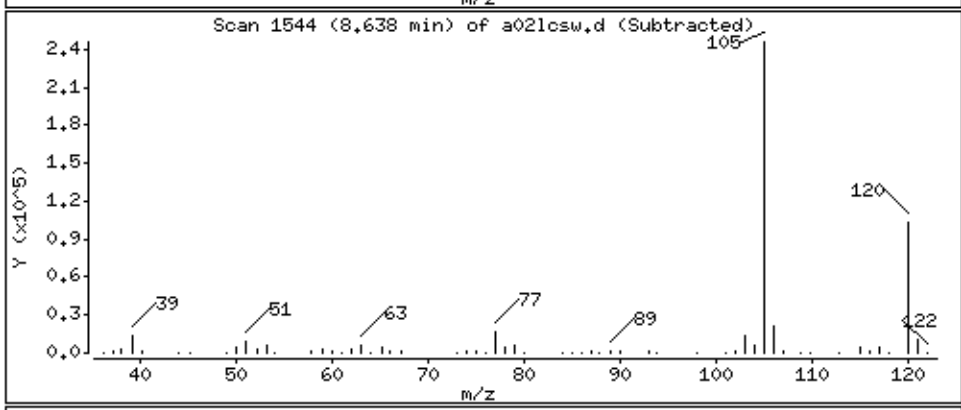
Column diameter: 0.18

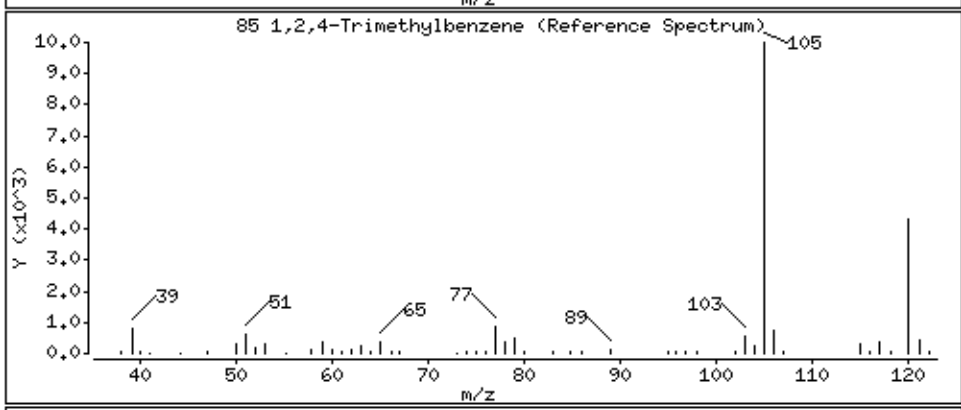
85 1,2,4-Trimethylbenzene

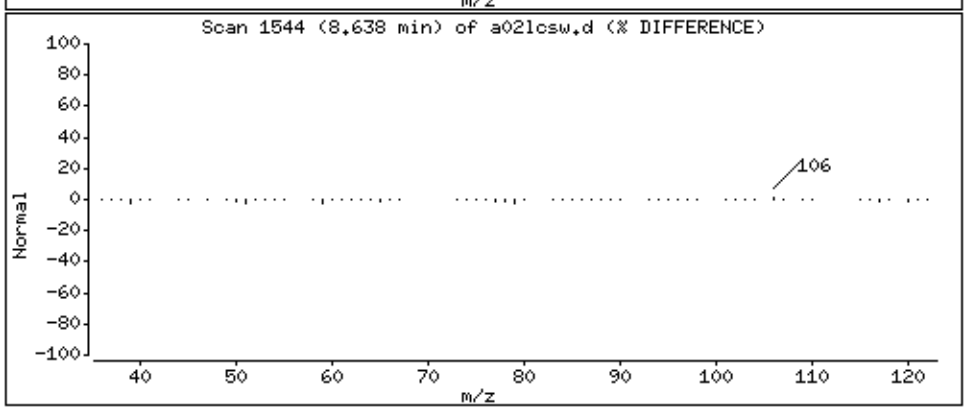
Concentration: 47.0 ppb

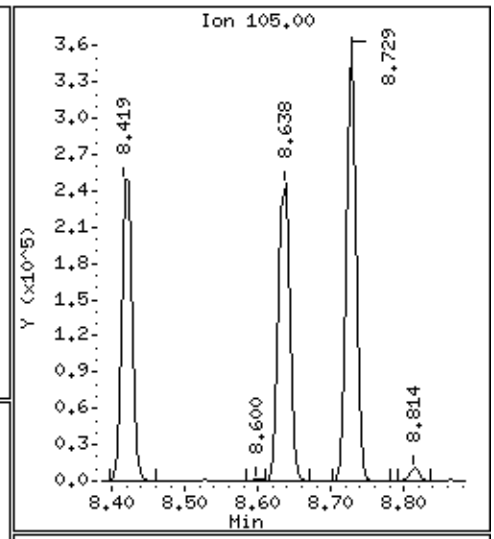
Review Code:

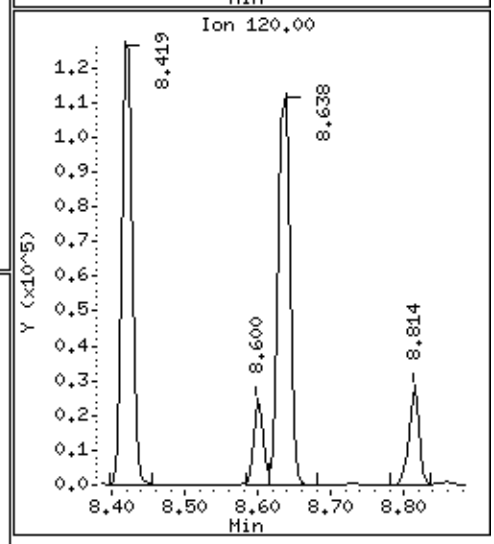












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a02lcsw.d

Date : 11-APR-2016 11:10

Client ID:

Instrument: 50mv3a.i

Sample Info: 1516523,118316:0

Purge Volume: 5.0

Operator: jlz

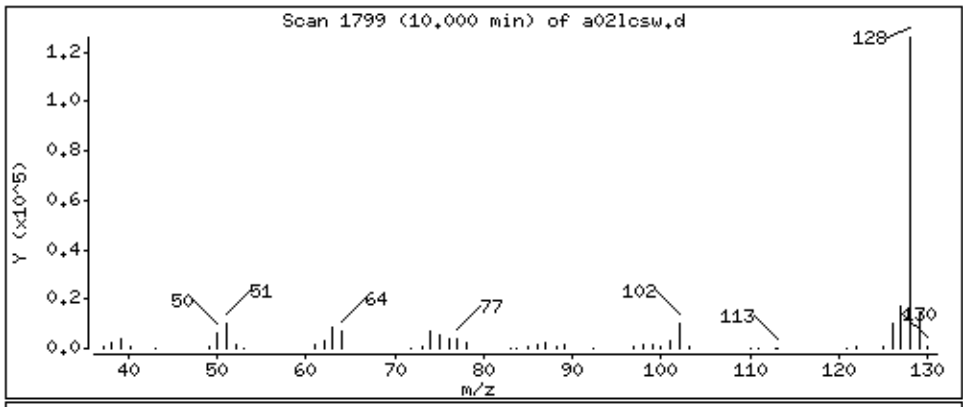
Column phase: DB-624

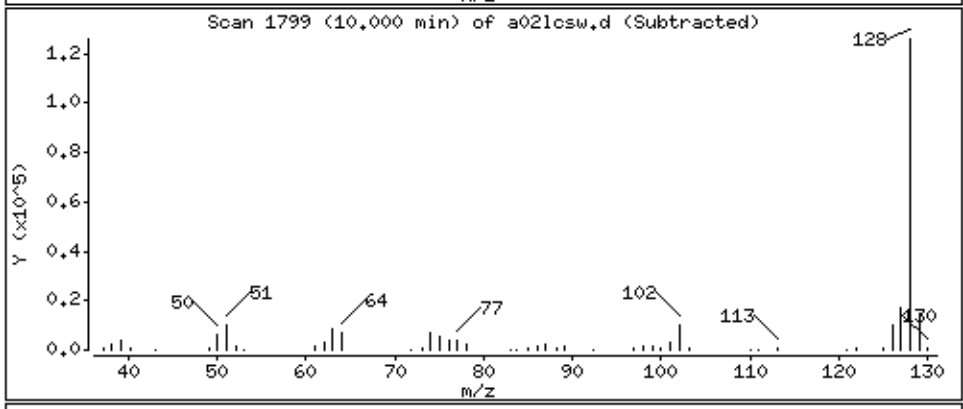
Column diameter: 0.18

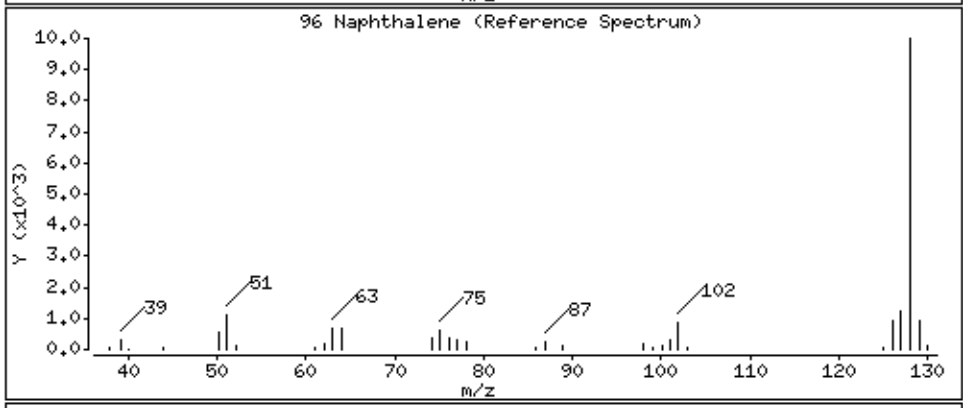
96 Naphthalene

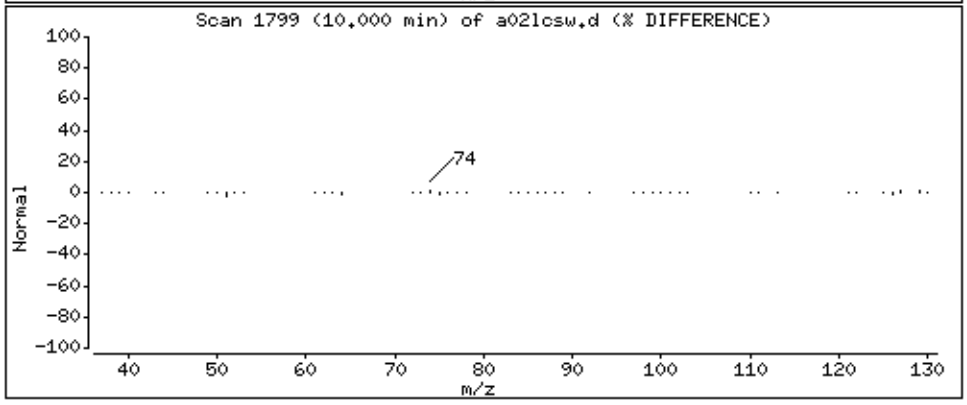
Concentration: 45.6 ppb

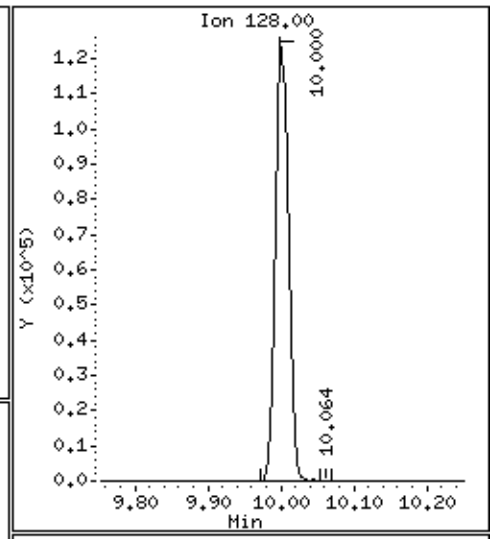
Review Code:

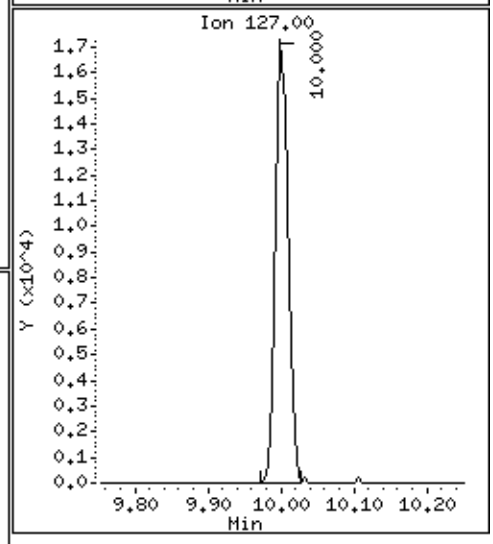












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a02lcsw.d
Injection Date: 11-APR-2016 11:10
Instrument: 50mv3a.i
Lab Sample ID: 1516523
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 21:21 Lab Sample ID: 1516524

Date Analyzed: 04/11/2016 21:21 Lab File ID: A041116.B\A21.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	44.1	
108-90-7	Chlorobenzene	43.4	
67-66-3	Chloroform	44.0	
75-35-4	1,1-Dichloroethene	44.4	
156-59-2	cis-1,2-Dichloroethene	47.4	
156-60-5	trans-1,2-Dichloroethene	42.8	
78-87-5	1,2-Dichloropropane	43.5	
100-41-4	Ethylbenzene	45.1	
98-82-8	Isopropylbenzene (Cumene)	46.1	
1634-04-4	Methyl-tert-butyl ether	43.7	
79-34-5	1,1,2,2-Tetrachloroethane	43.1	
127-18-4	Tetrachloroethene	48.7	
108-88-3	Toluene	41.6	
71-55-6	1,1,1-Trichloroethane	46.2	
79-01-6	Trichloroethene	45.1	
75-01-4	Vinyl chloride	42.9	
1330-20-7	Xylene (Total)	133	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d
Lab Smp Id: 1516524 Client Smp ID: MW-0501-S1(033016)P
Inj Date : 11-APR-2016 21:21
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516524,118316:5
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 43 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

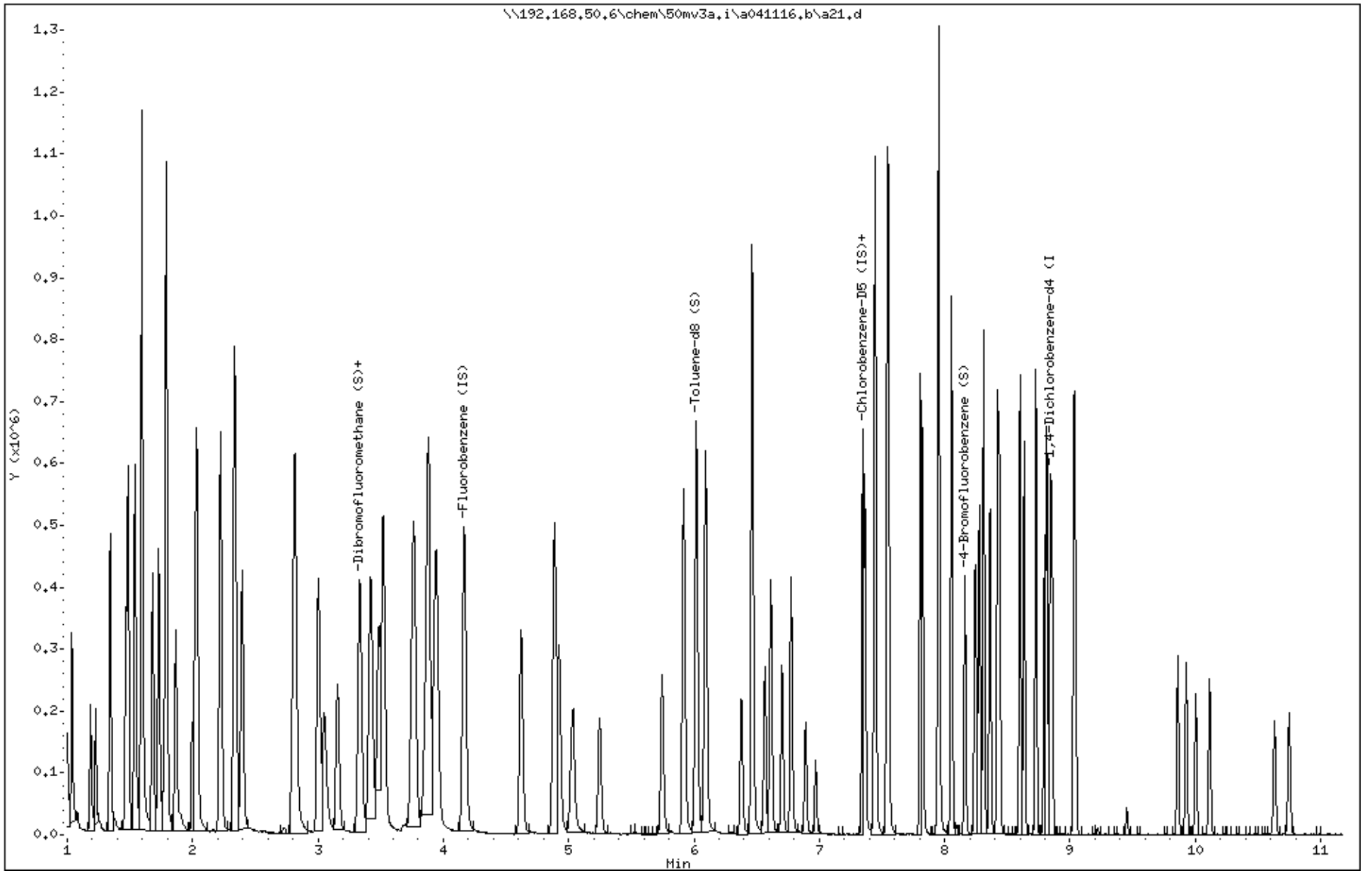
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.035	1.033	(0.248)	175299	42.8744	42.9	
	11 1,1-Dichloroethene	96	1.595	1.594	(0.383)	128314	44.4391	44.4	
	20 Methyl-tert-butyl ether	73	2.023	2.027	(0.485)	247409	43.7070	43.7	
	22 1,2-Dichloroethene (trans)	96	2.039	2.038	(0.489)	113712	42.8430	42.8	
	28 1,2-Dichloroethene (cis)	96	2.818	2.812	(0.676)	124840	47.3586	47.4	
	34 Chloroform	83	3.160	3.159	(0.758)	184421	43.9968	44.0	
	36 1,1,1-Trichloroethane	97	3.337	3.330	(0.800)	167505	46.2426	46.2	
$	35 Dibromofluoromethane (S)	113	3.331	3.330	(0.799)	110792	51.1084	51.1	
	41 Benzene	78	3.764	3.763	(0.903)	440144	44.1263	44.1	
*	45 Fluorobenzene (IS)	96	4.170	4.163	(1.000)	481118	50.0000		
	46 Trichloroethene	95	4.618	4.612	(1.108)	109868	45.0541	45.0	
	48 1,2-Dichloropropane	63	4.923	4.922	(1.181)	99095	43.4891	43.5	
$	56 Toluene-d8 (S)	98	6.018	6.017	(0.820)	379276	50.1920	50.2	
	57 Toluene	91	6.093	6.091	(0.830)	403395	41.6418	41.6	
	61 Tetrachloroethene	166	6.616	6.615	(0.901)	93652	48.6636	48.7	
*	66 Chlorobenzene-D5 (IS)	117	7.342	7.341	(1.000)	219955	50.0000		
	67 Chlorobenzene	112	7.364	7.368	(1.003)	194115	43.3801	43.4	
	69 Ethylbenzene	106	7.449	7.448	(1.015)	114409	45.1248	45.1	
	70 m&p-Xylene	106	7.545	7.544	(1.028)	274435	88.7817	88.8	
	71 o-Xylene	106	7.807	7.806	(1.063)	119921	43.7904	43.8	
	74 Isopropylbenzene	105	8.053	8.052	(1.097)	327568	46.1315	46.1	
$	75 4-Bromofluorobenzene (S)	95	8.165	8.164	(1.112)	83611	46.0063	46.0	
	77 1,1,2,2-Tetrachloroethane	83	8.256	8.255	(0.934)	51280	43.0843	43.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.635	8.634	(0.977)	201826	41.5599	41.6	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.838	8.842	(1.000)	74623	50.0000		
96 Naphthalene	128	10.002	10.001	(1.132)	120656	41.9067	41.9	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d
Date : 11-APR-2016 21:21
Client ID: MW-0501-S1(033016)P
Sample Info: 1516524,118316;5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

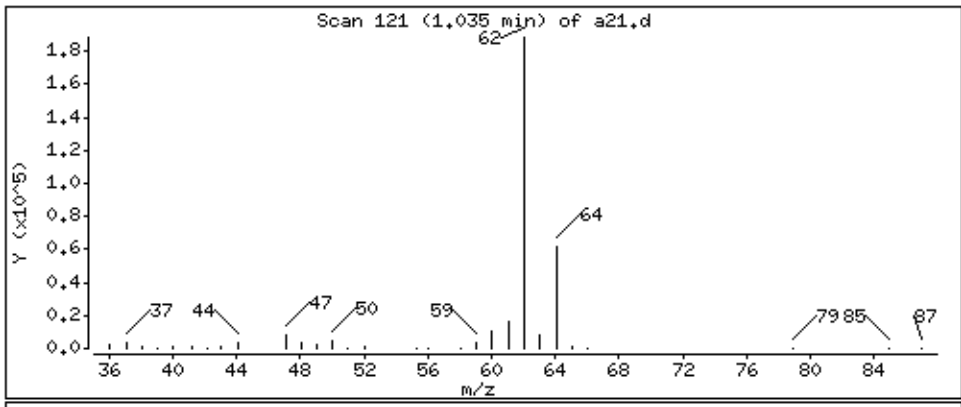
Column phase: DB-624

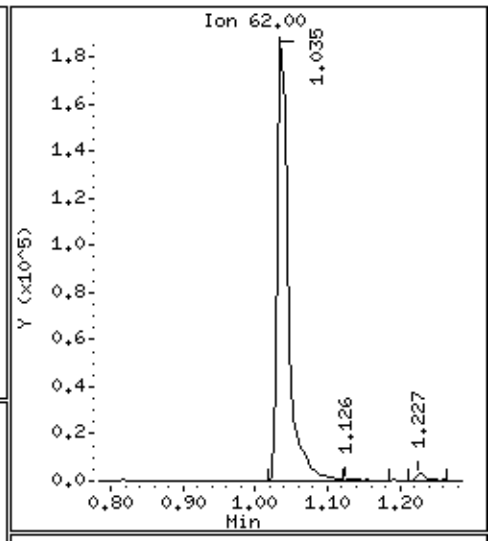
Column diameter: 0.18

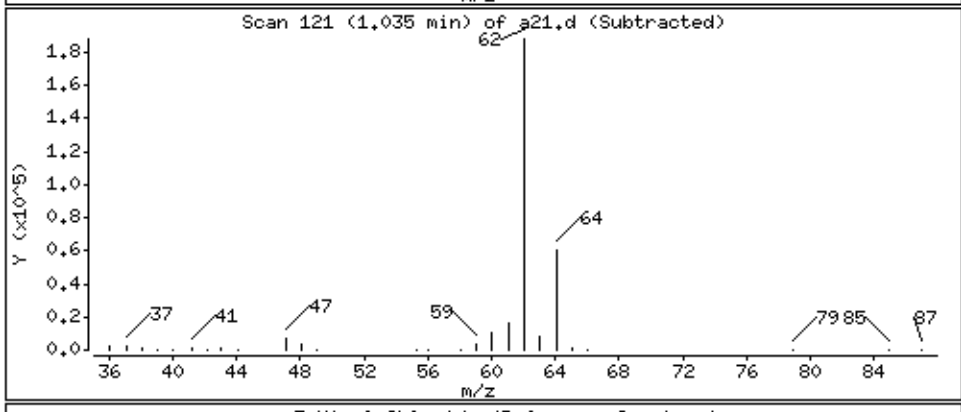
3 Vinyl Chloride

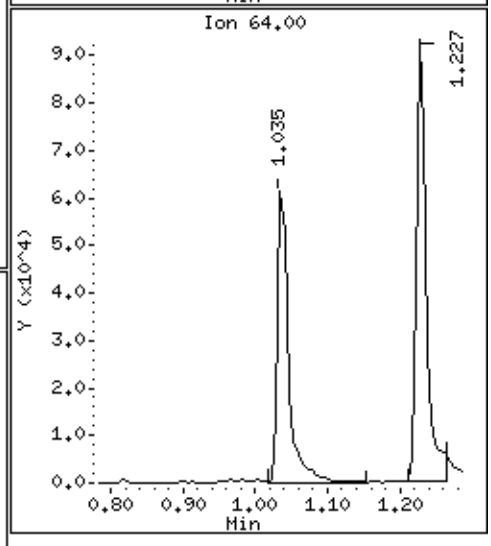
Concentration: 42.9 ppb

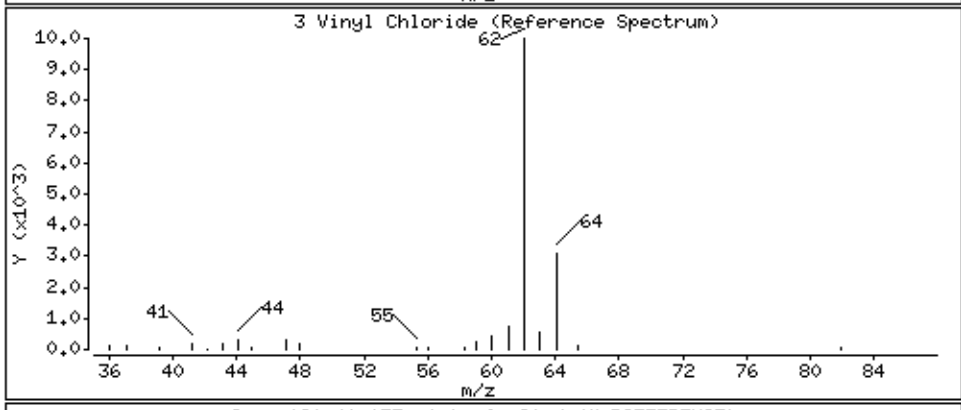
Review Code:

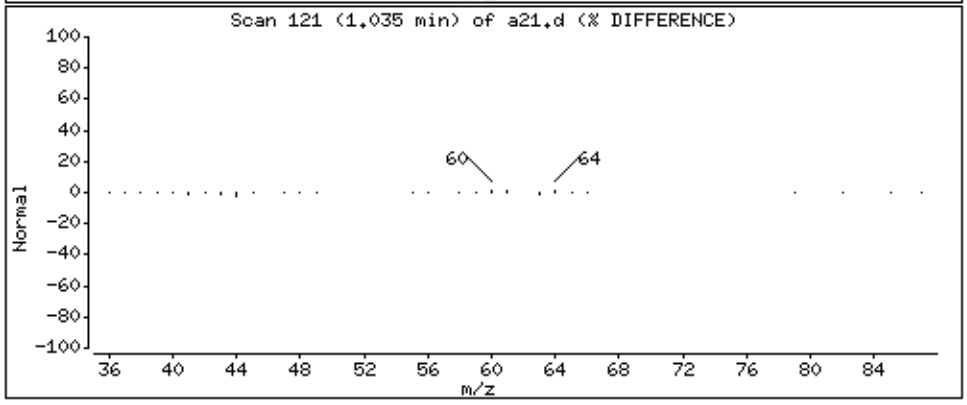












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

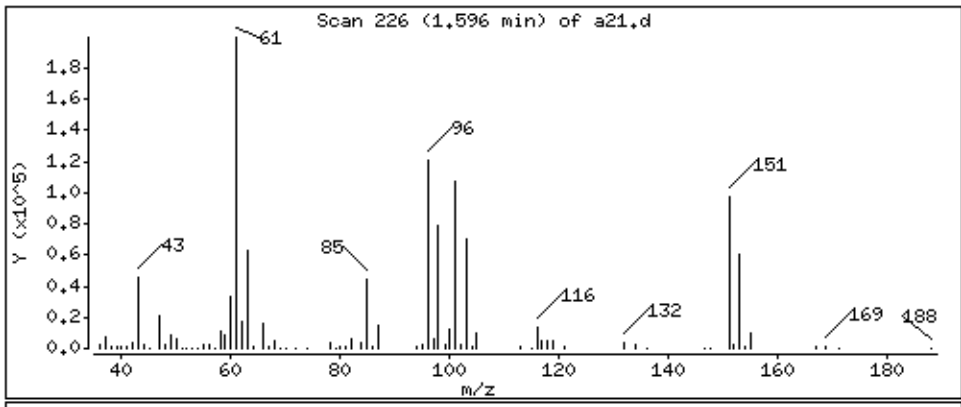
Column phase: DB-624

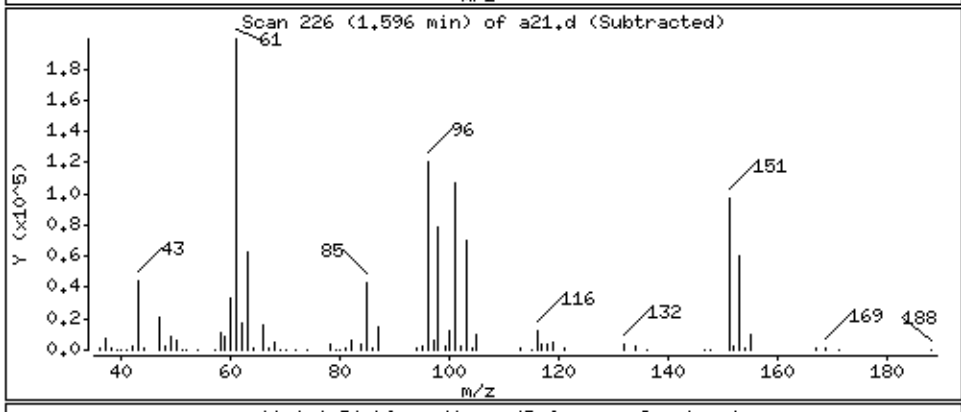
Column diameter: 0.18

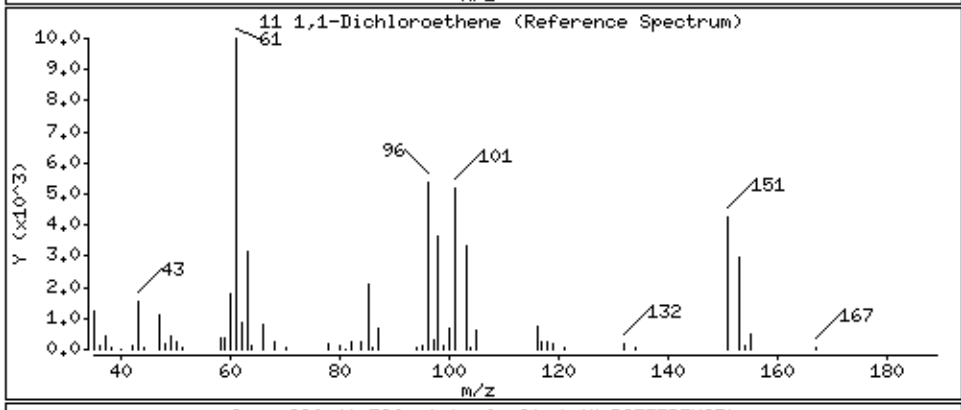
11 1,1-Dichloroethene

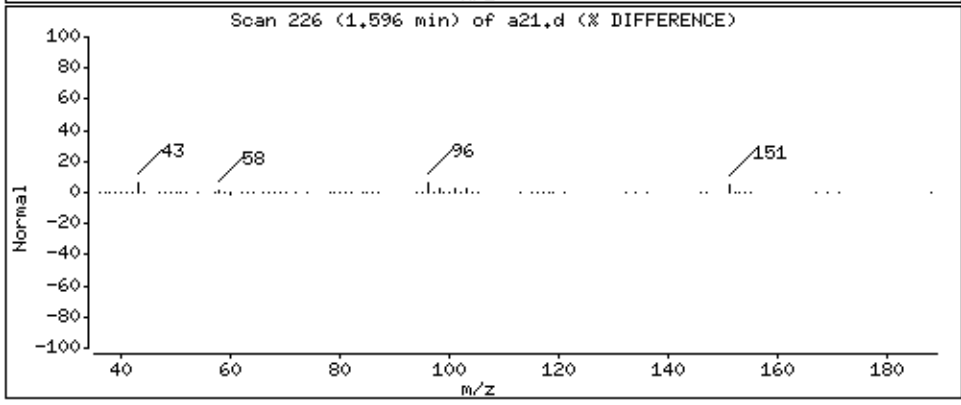
Concentration: 44.4 ppb

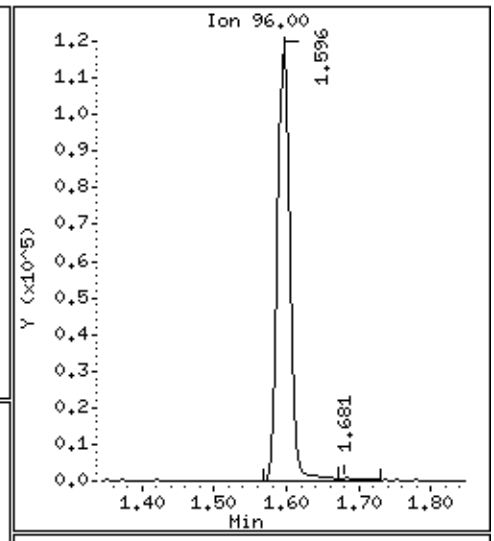
Review Code:

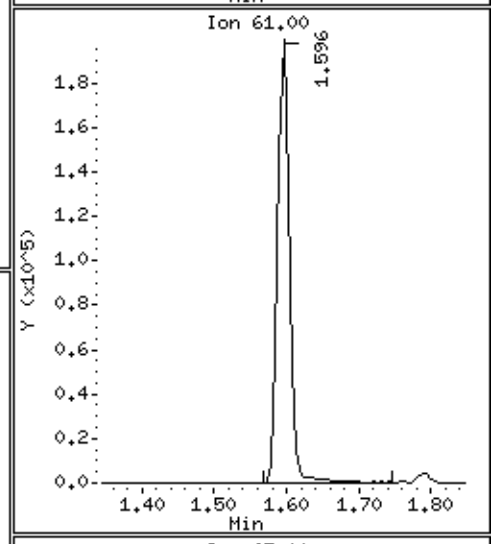


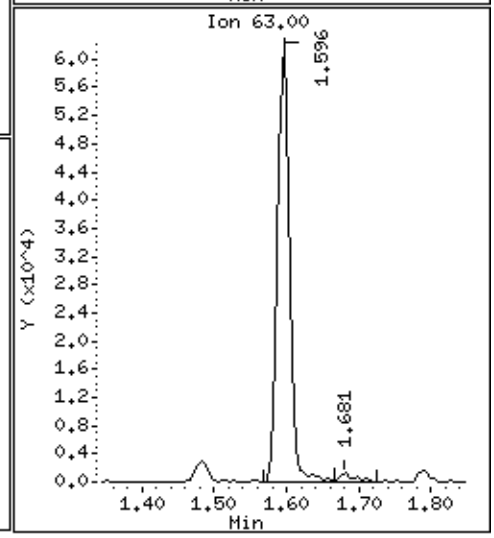












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

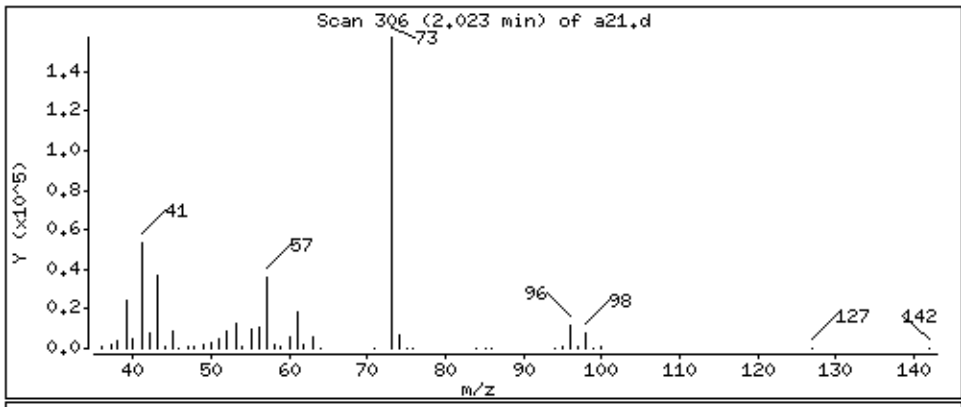
Column phase: DB-624

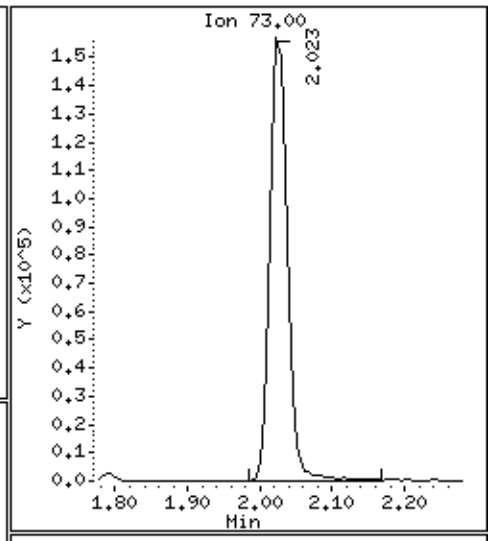
Column diameter: 0.18

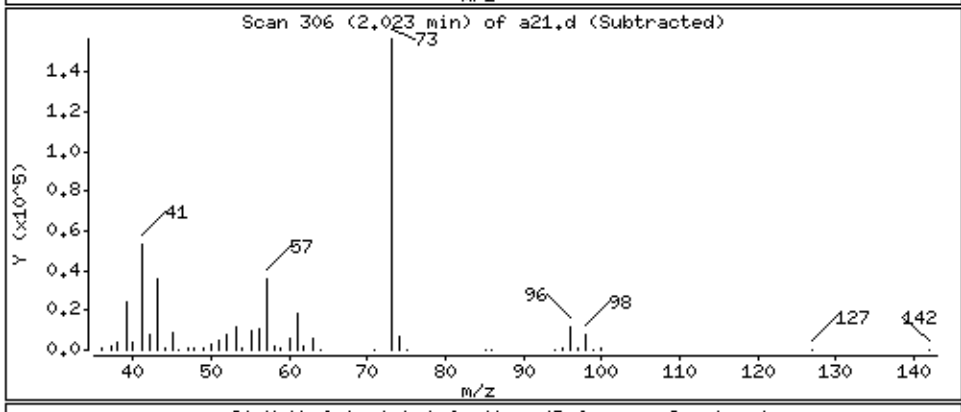
20 Methyl-tert-butyl ether

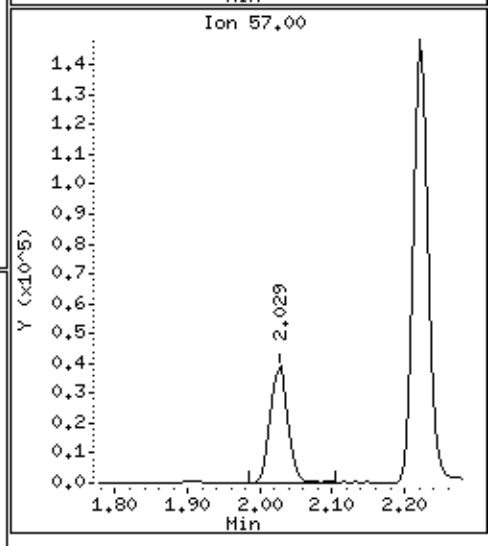
Concentration: 43.7 ppb

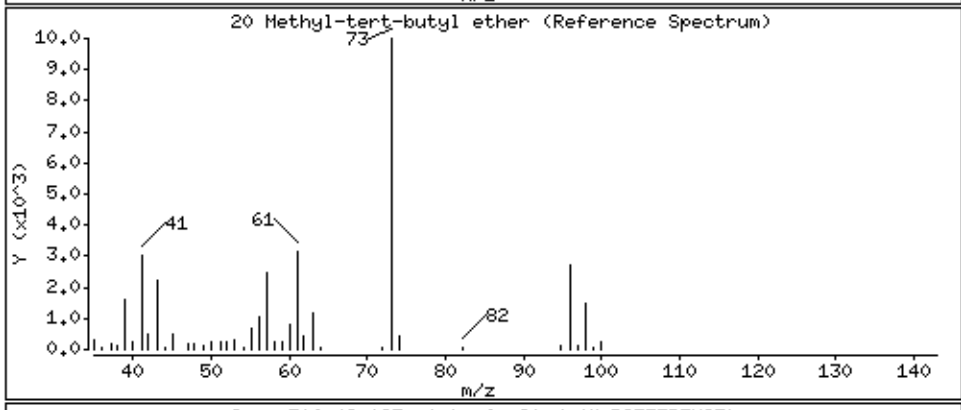
Review Code:

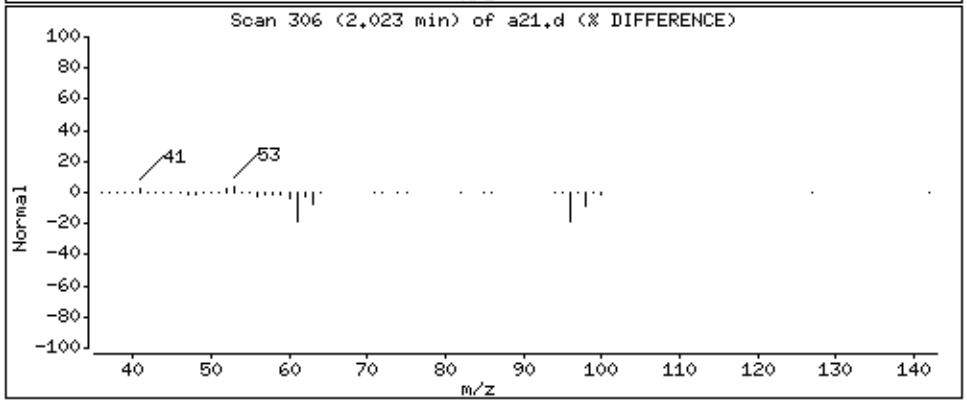












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

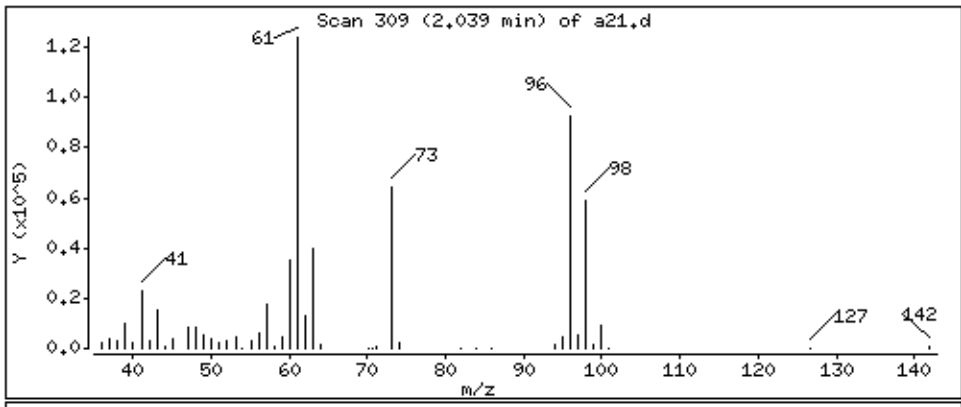
Column phase: DB-624

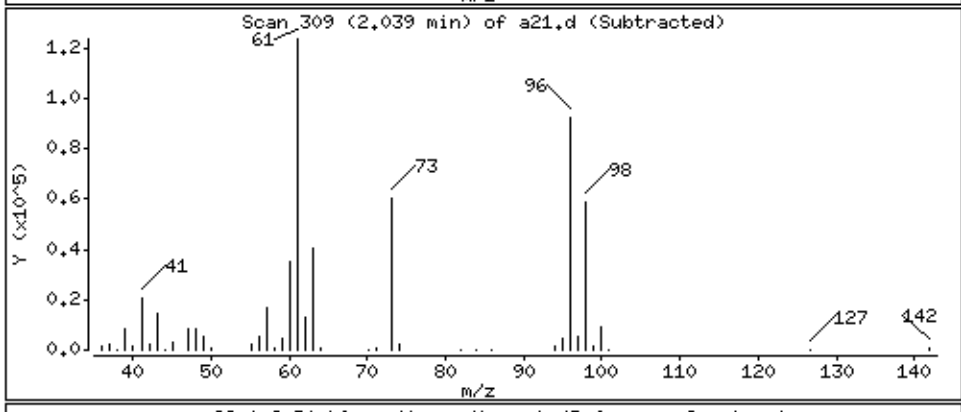
Column diameter: 0.18

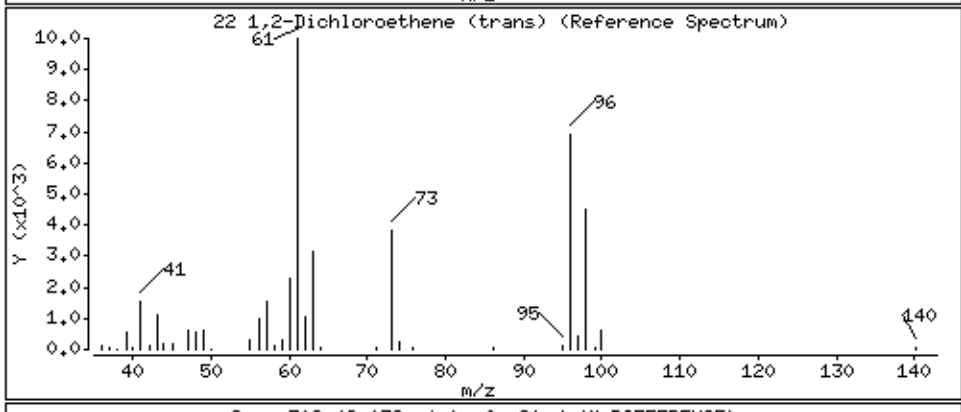
22 1,2-Dichloroethene (trans)

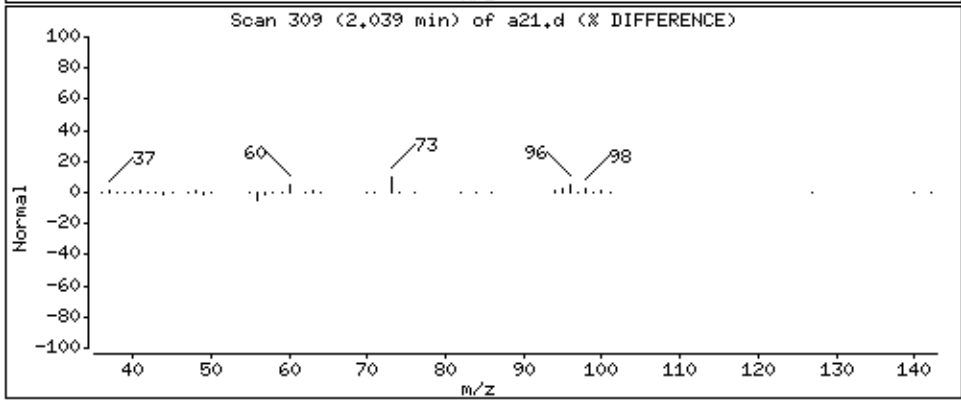
Concentration: 42.8 ppb

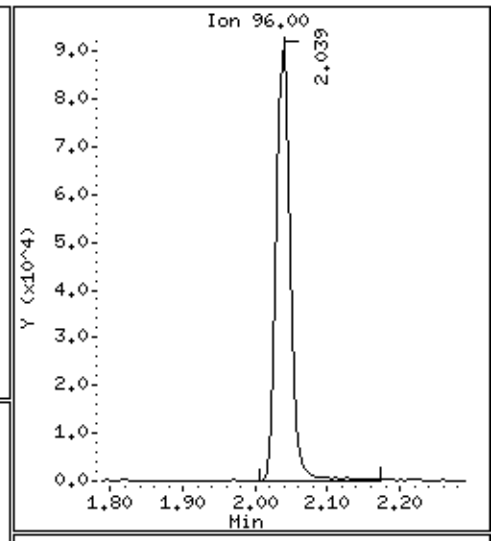
Review Code:

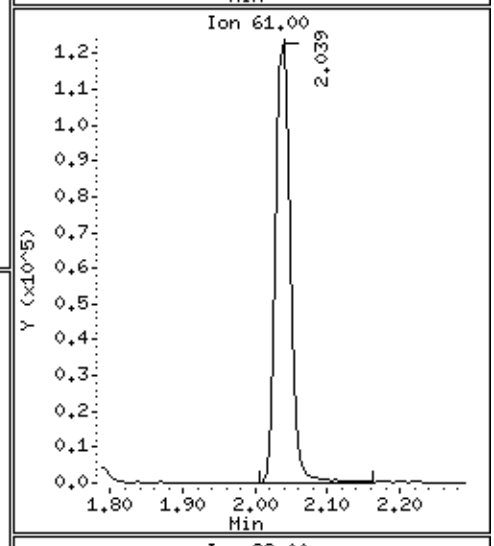


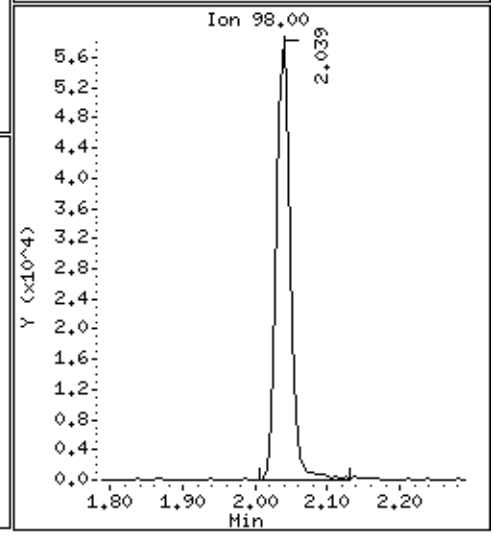












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

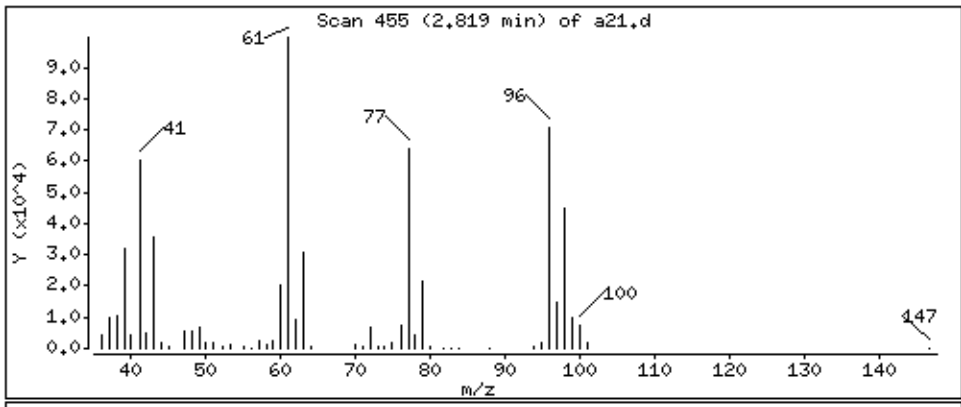
Column phase: DB-624

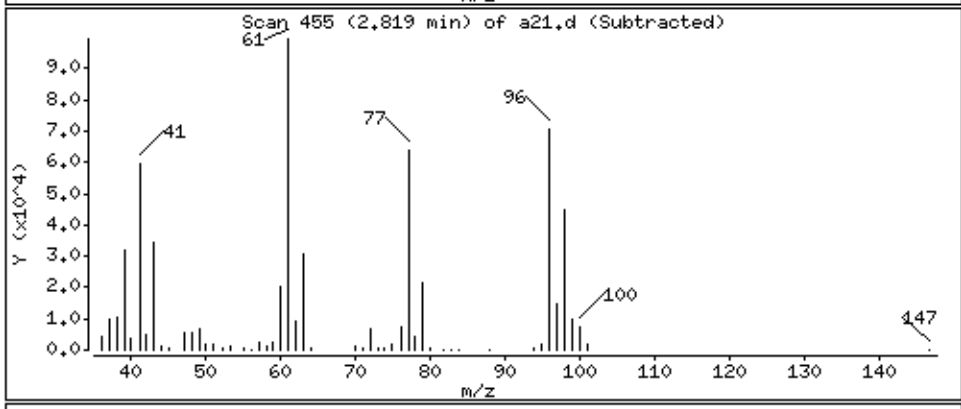
Column diameter: 0.18

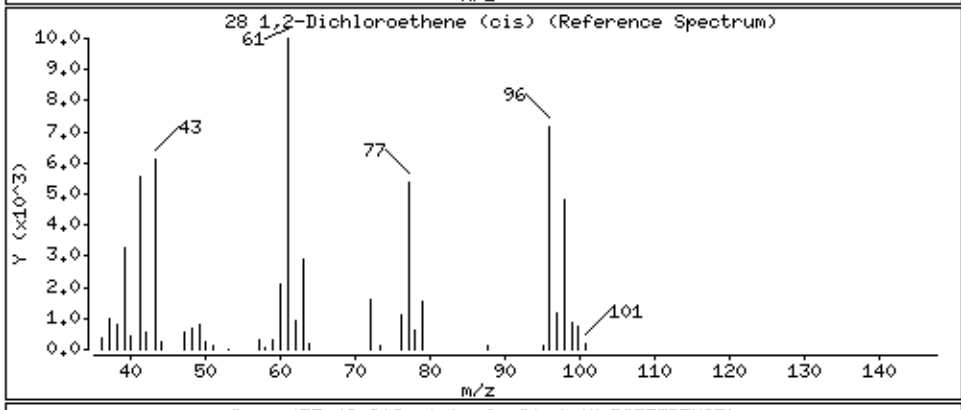
28 1,2-Dichloroethene (cis)

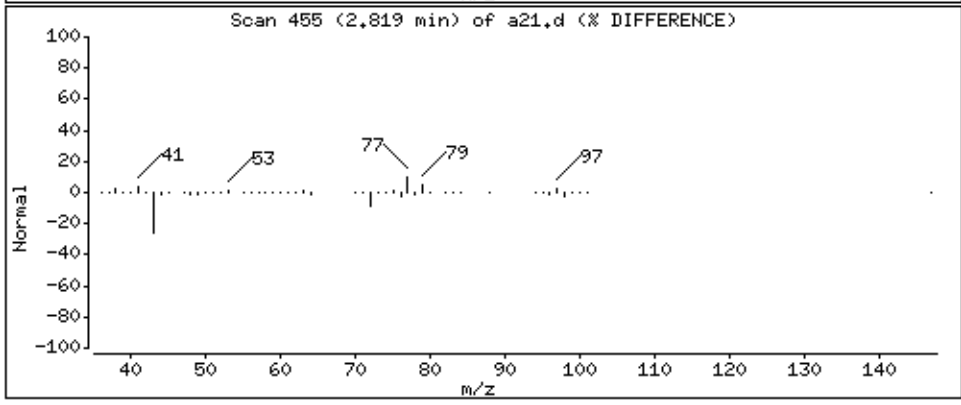
Concentration: 47.4 ppb

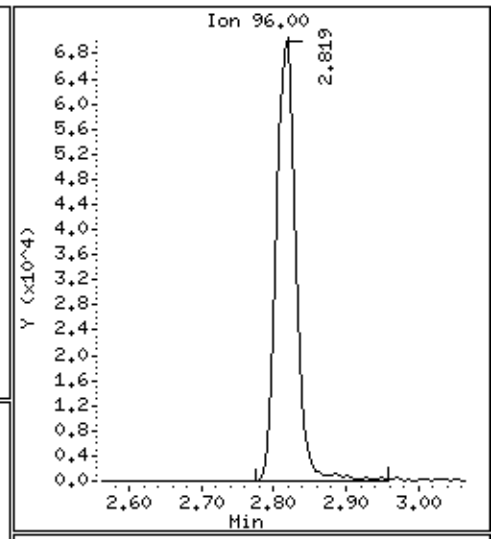
Review Code:

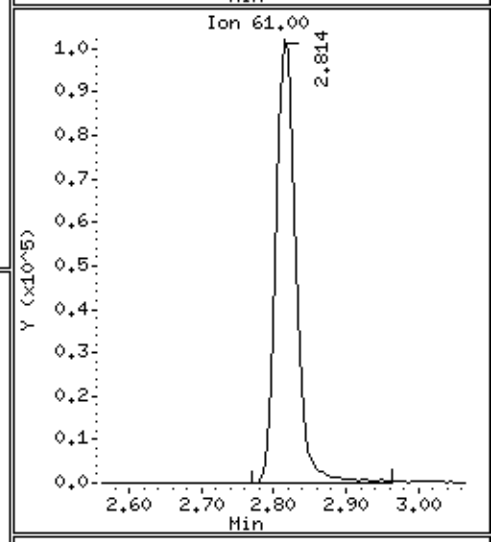


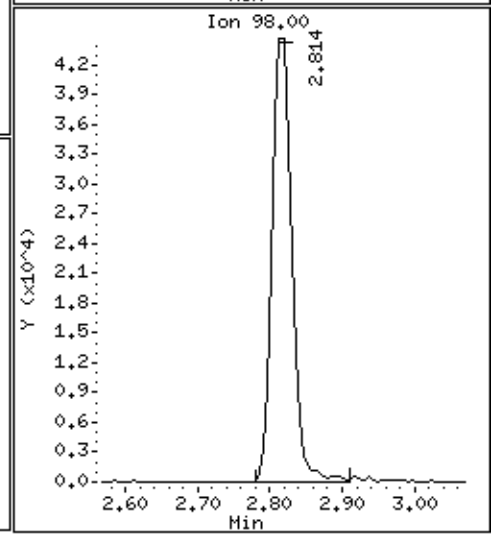












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

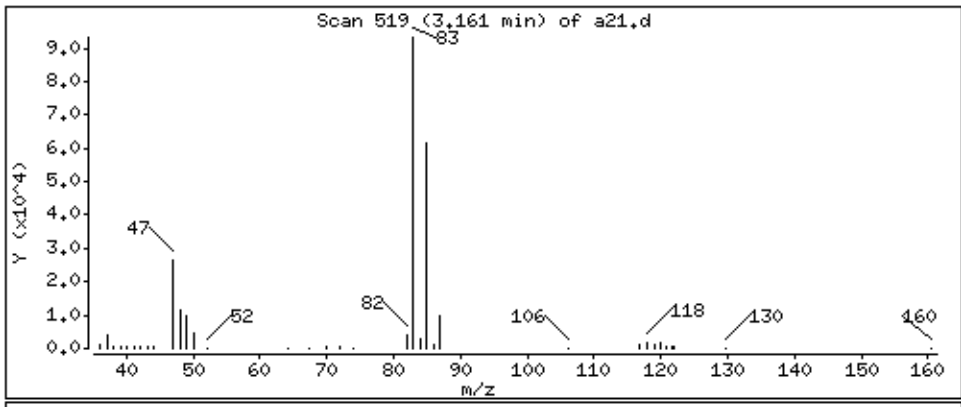
Column phase: DB-624

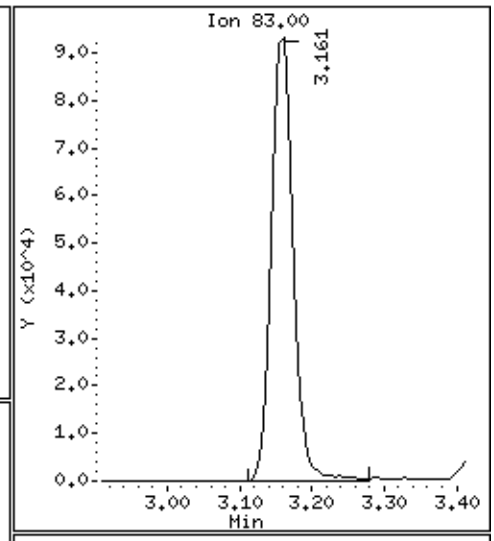
Column diameter: 0.18

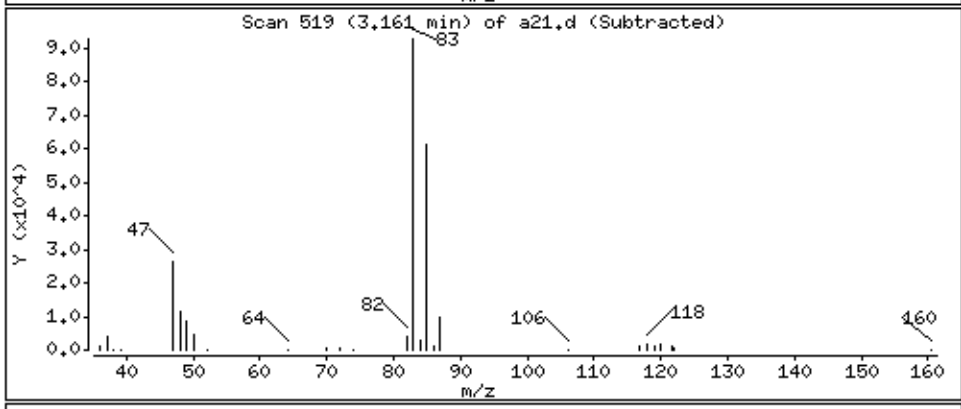
34 Chloroform

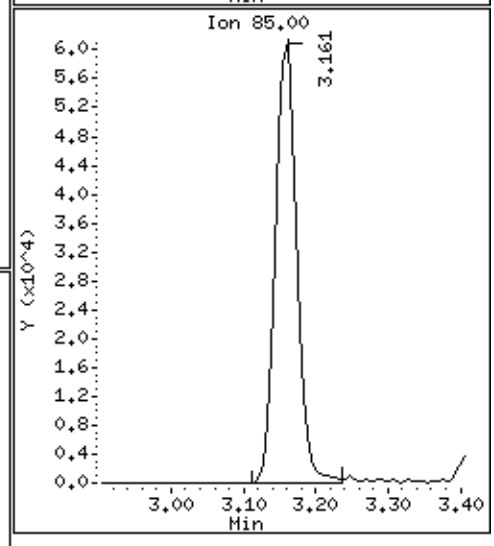
Concentration: 44.0 ppb

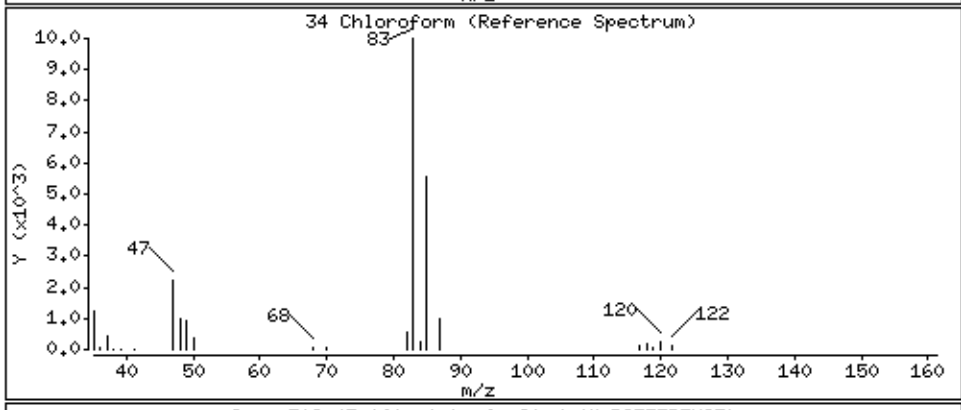
Review Code:

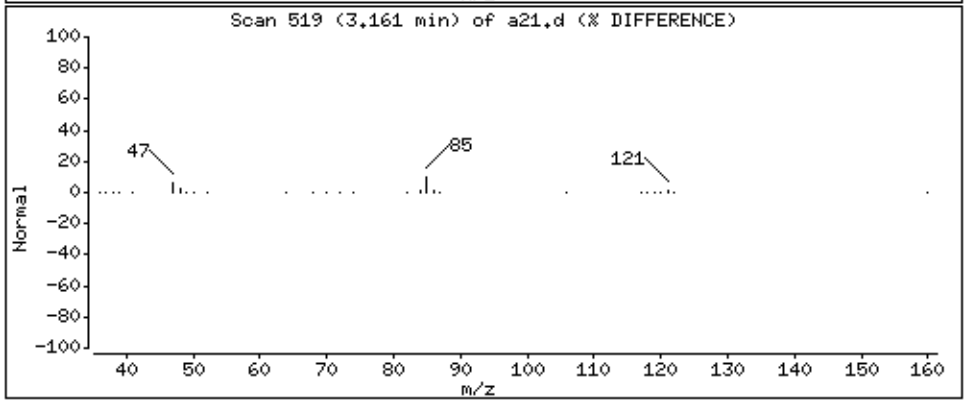












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

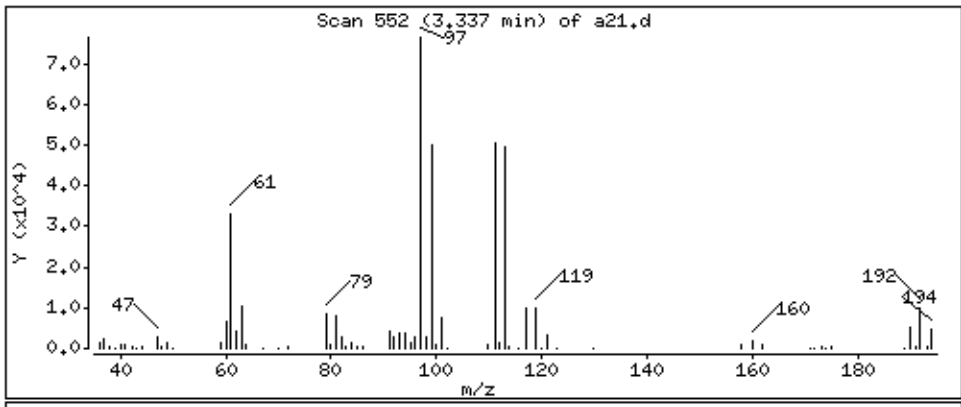
Column phase: DB-624

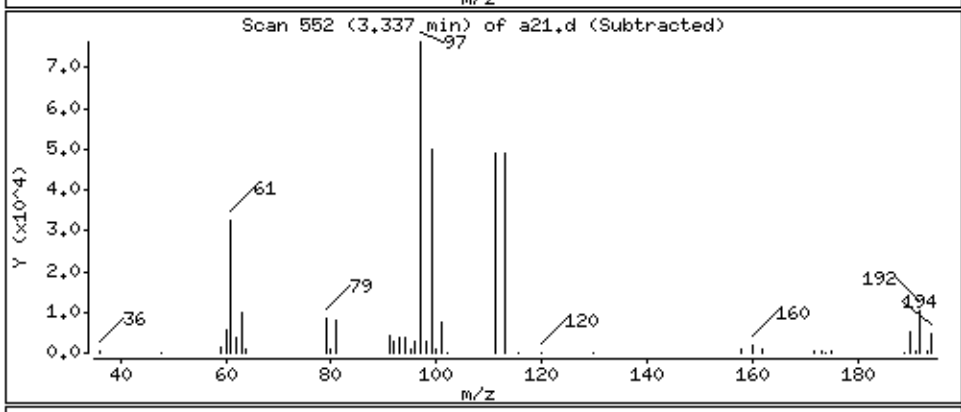
Column diameter: 0.18

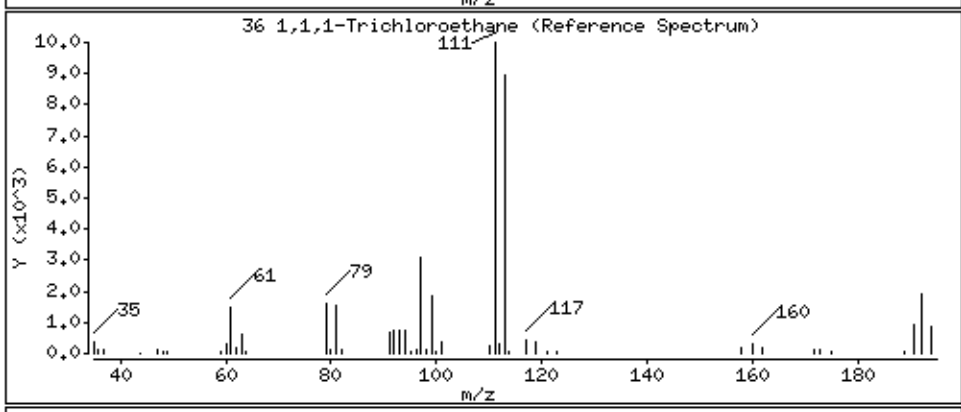
36 1,1,1-Trichloroethane

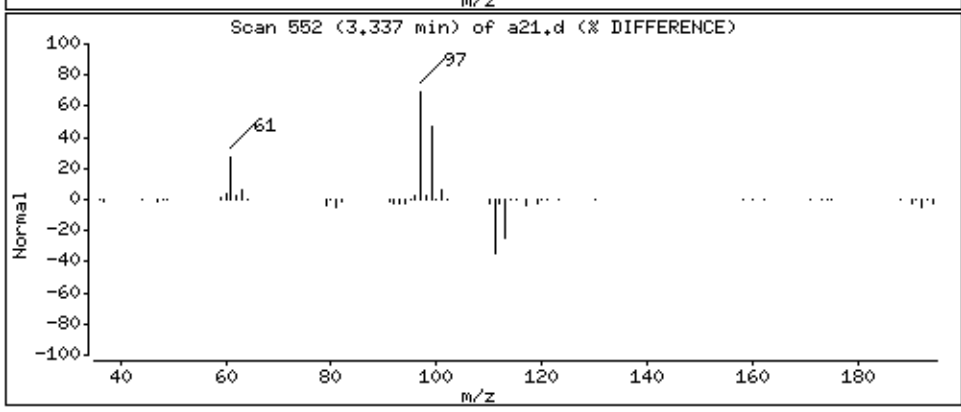
Concentration: 46.2 ppb

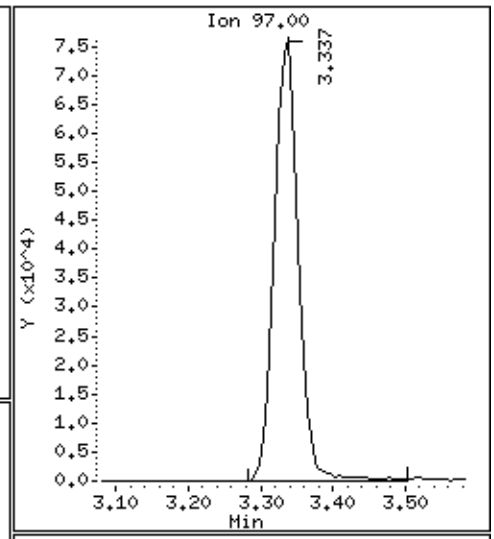
Review Code:

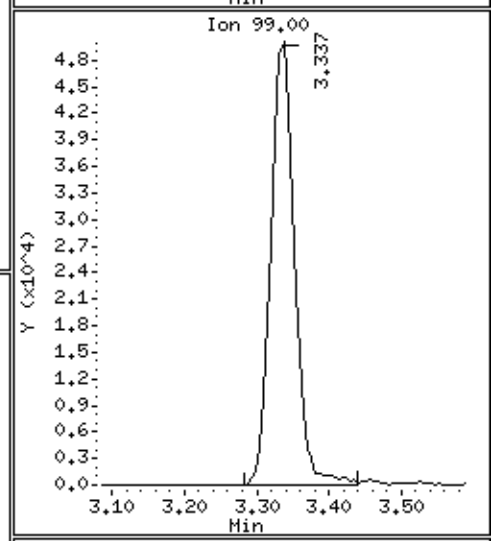


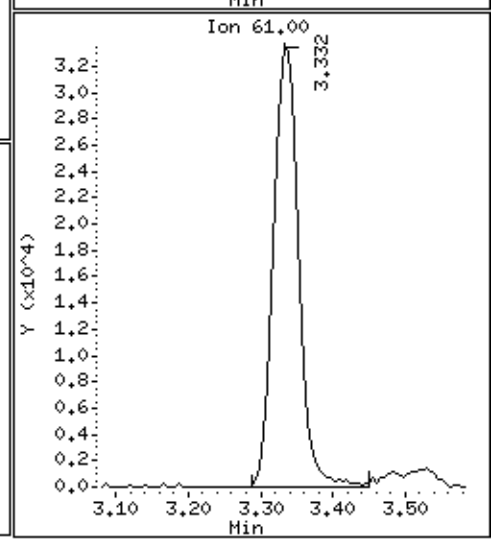












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

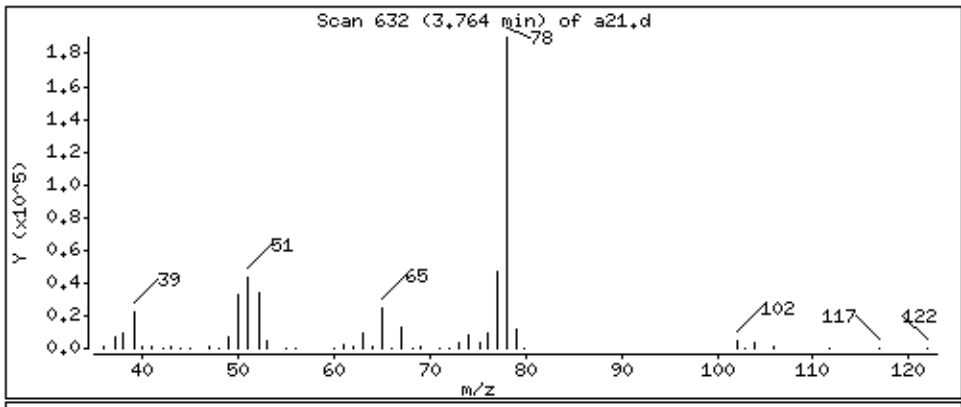
Column phase: DB-624

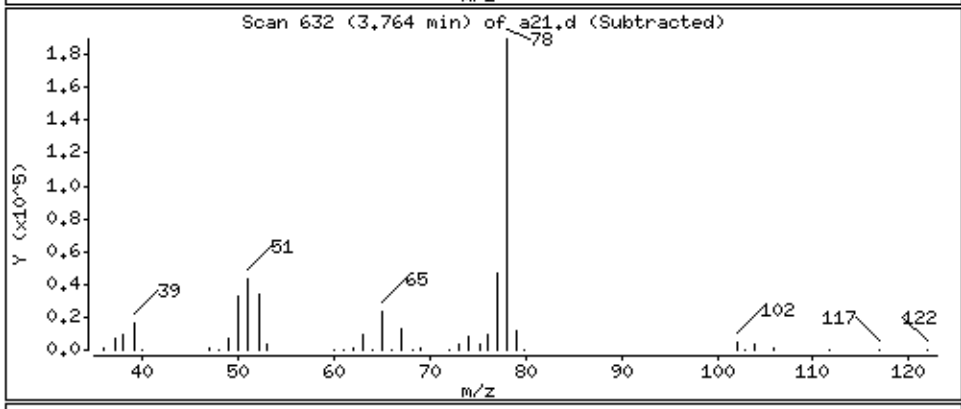
Column diameter: 0.18

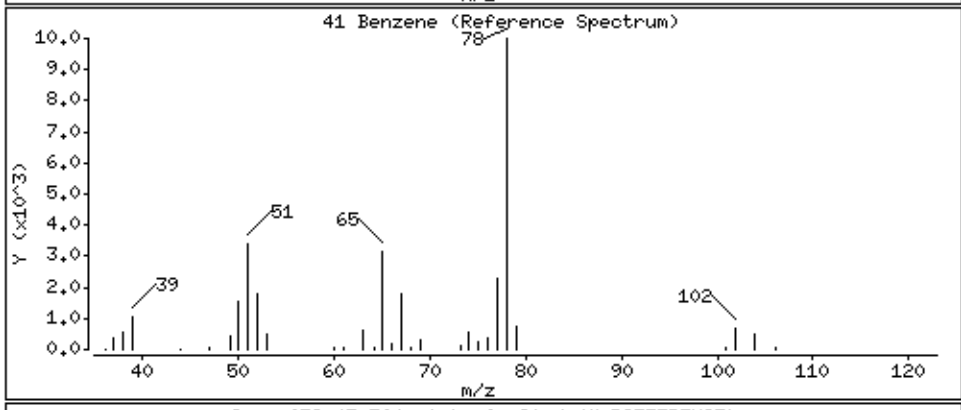
41 Benzene

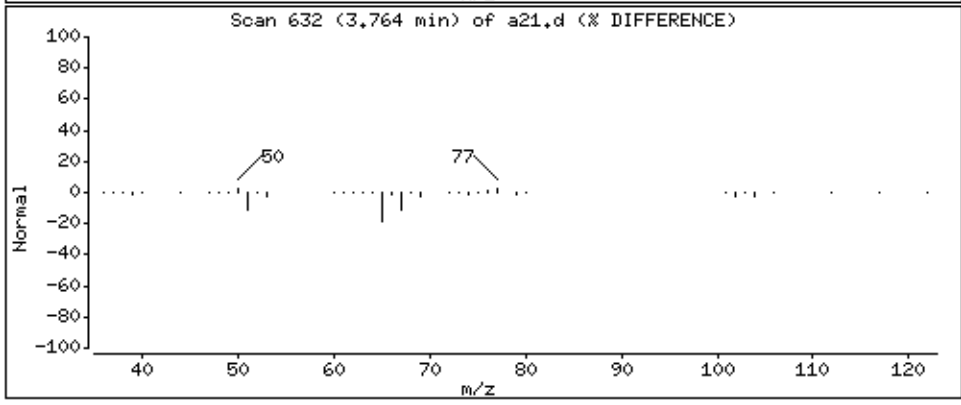
Concentration: 44.1 ppb

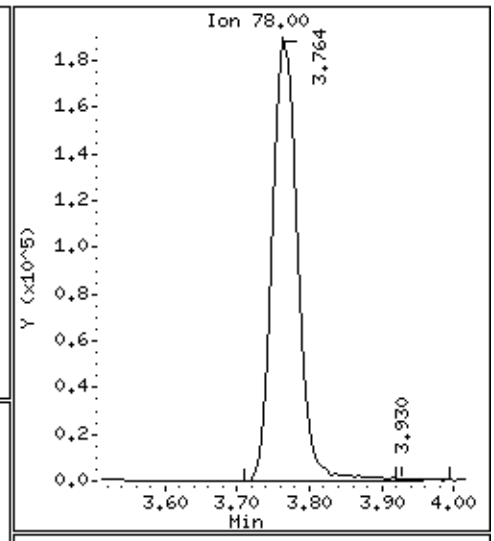
Review Code:

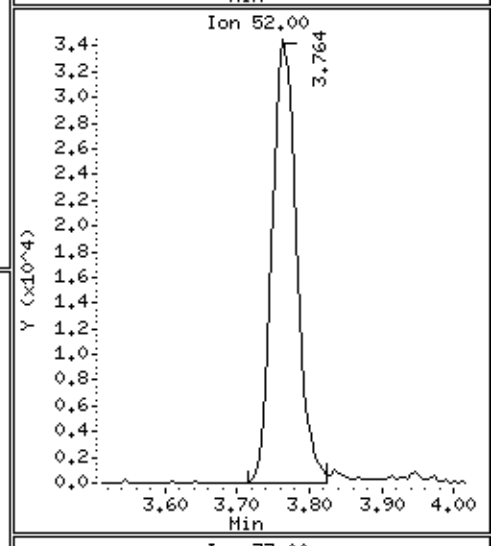


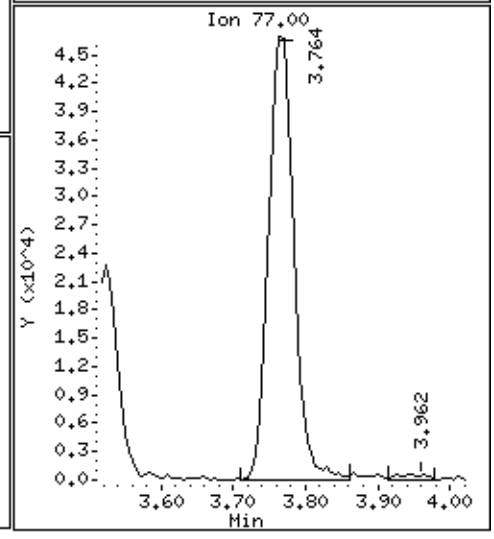












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

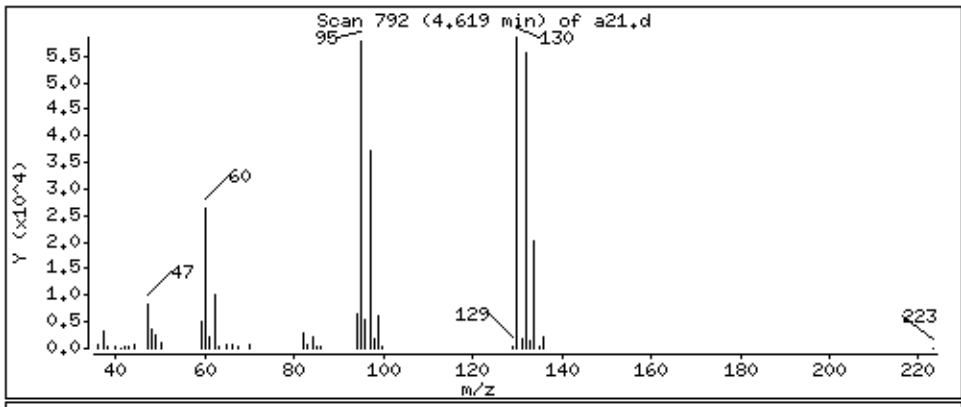
Column phase: DB-624

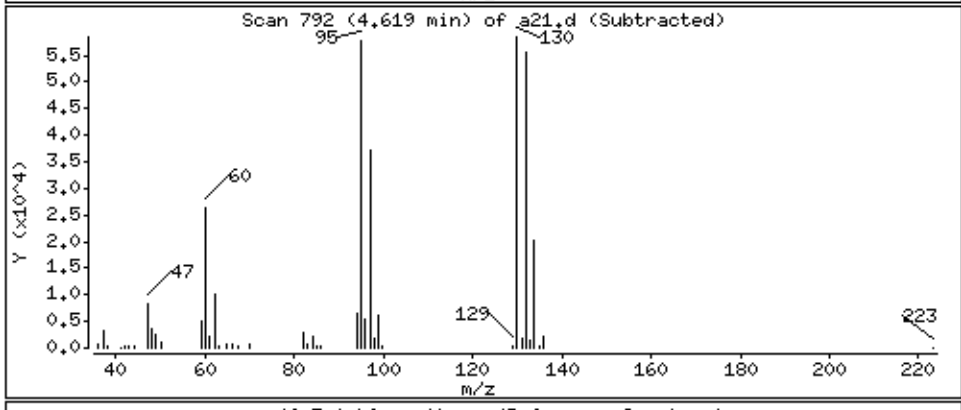
Column diameter: 0.18

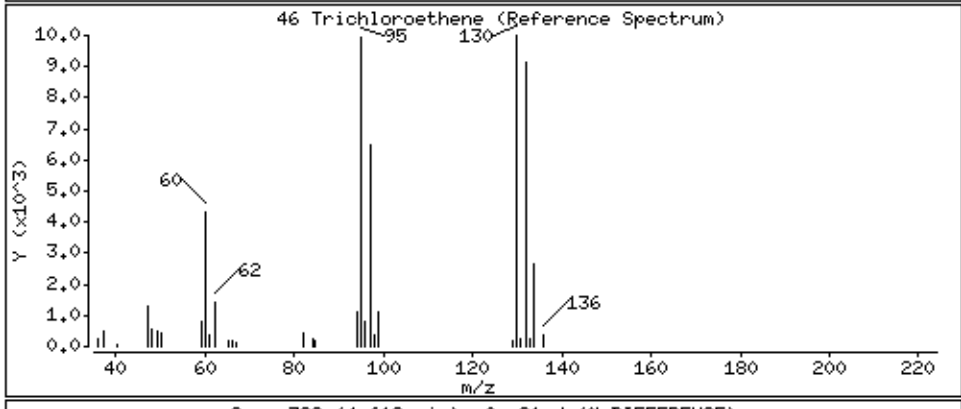
46 Trichloroethene

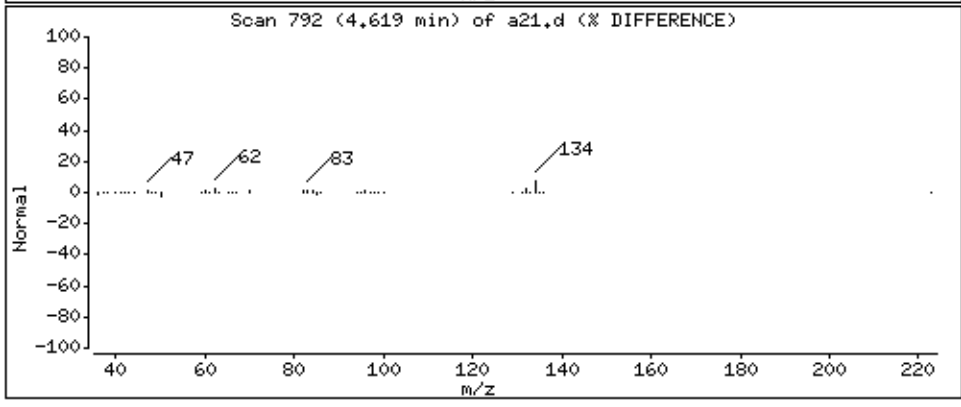
Concentration: 45.0 ppb

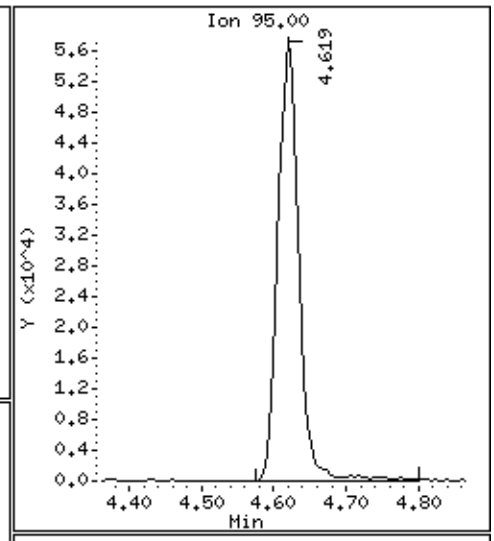
Review Code:

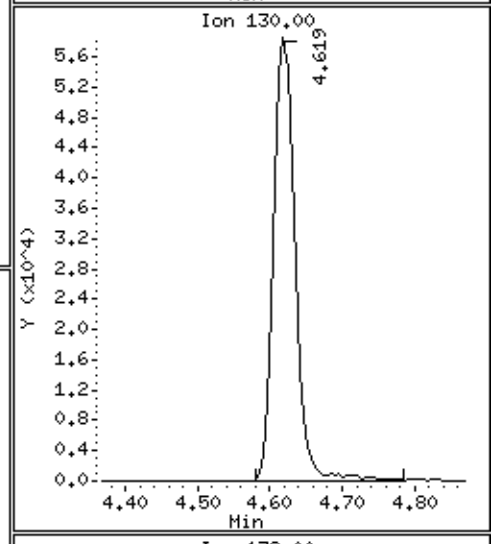


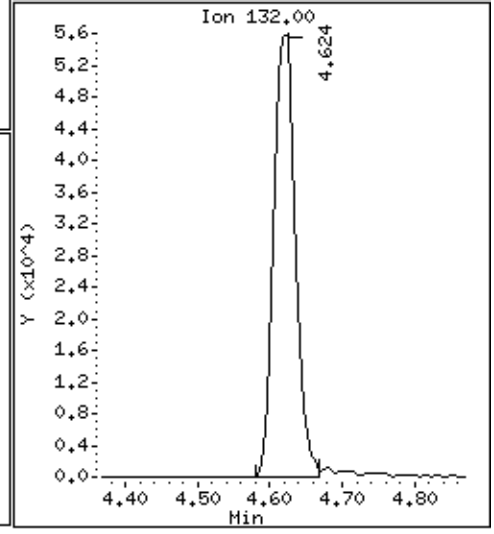












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

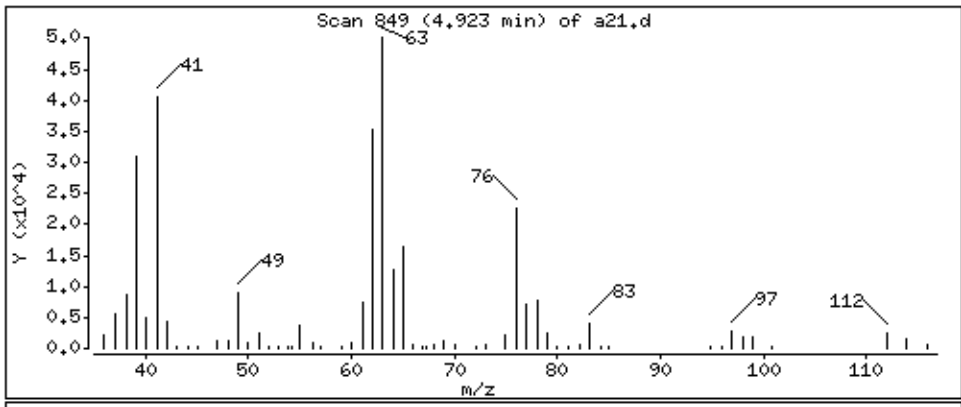
Column phase: DB-624

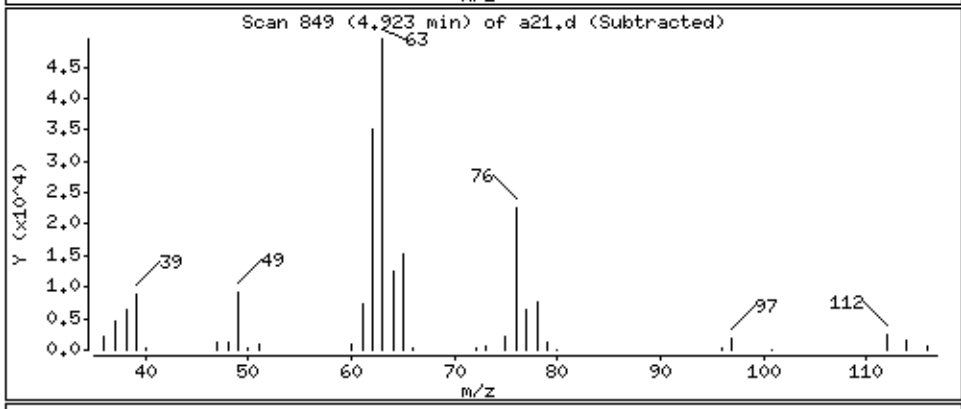
Column diameter: 0.18

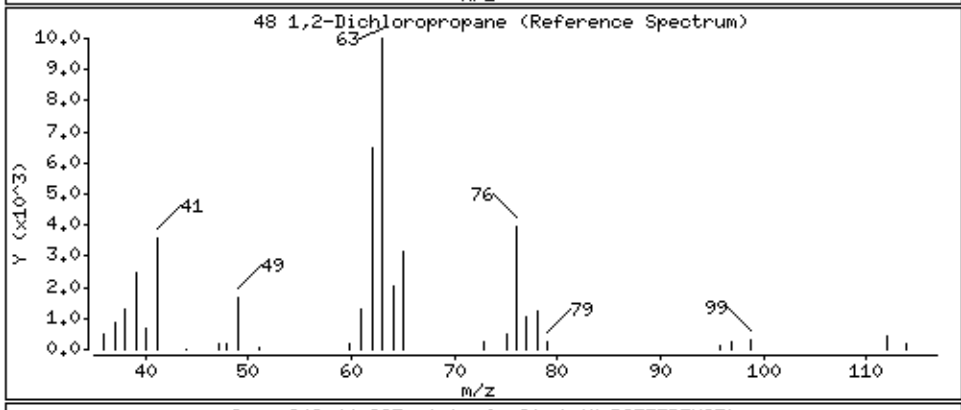
48 1,2-Dichloropropane

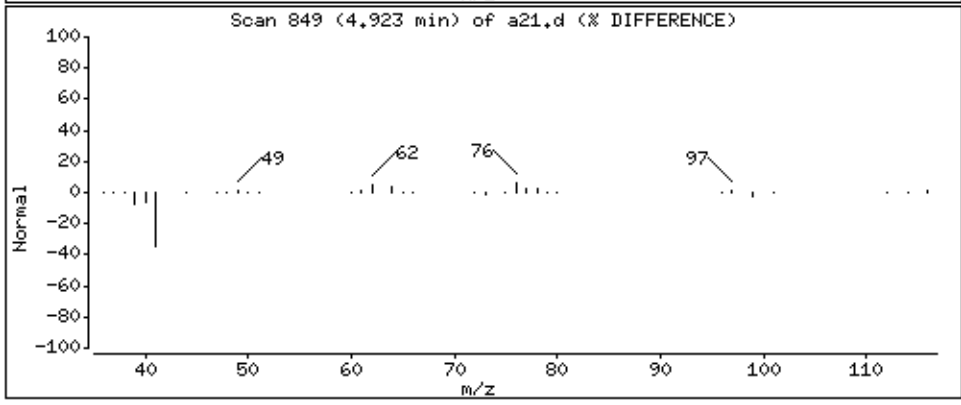
Concentration: 43.5 ppb

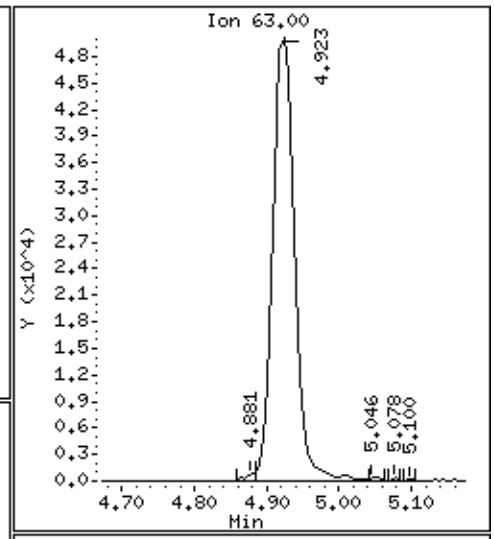
Review Code:

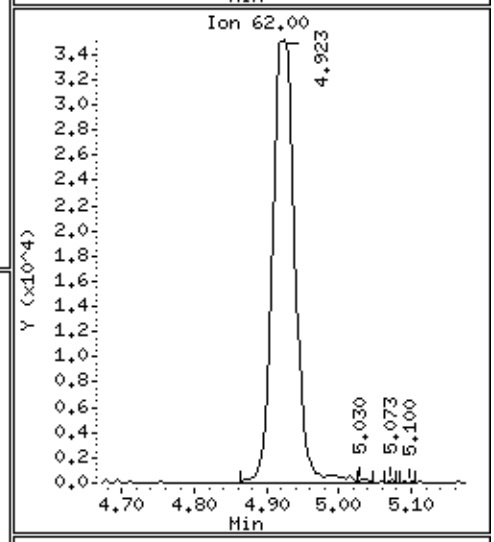


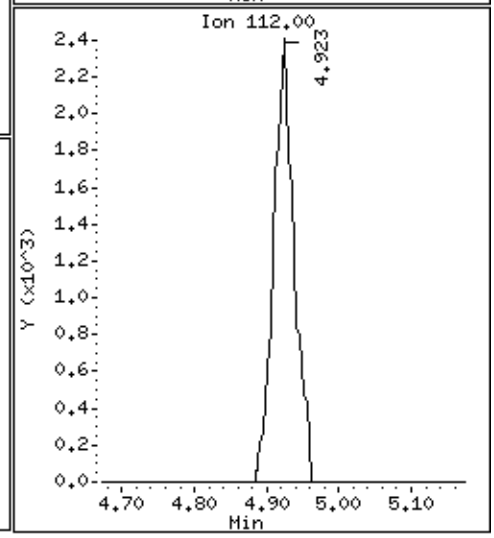












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

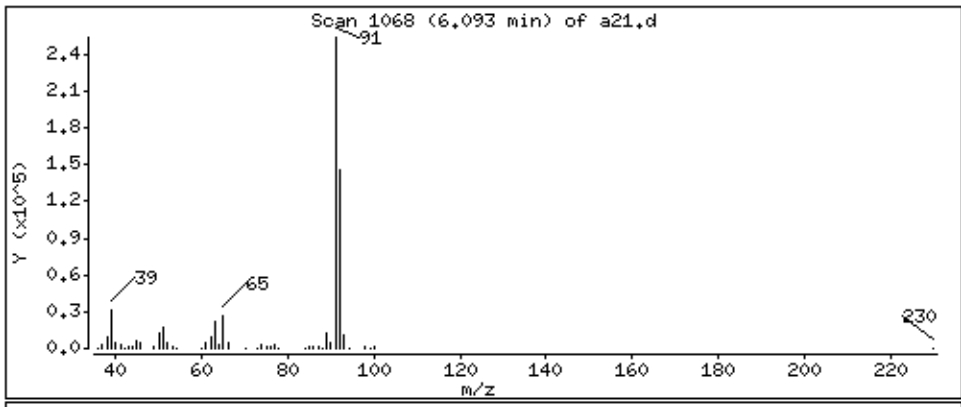
Column phase: DB-624

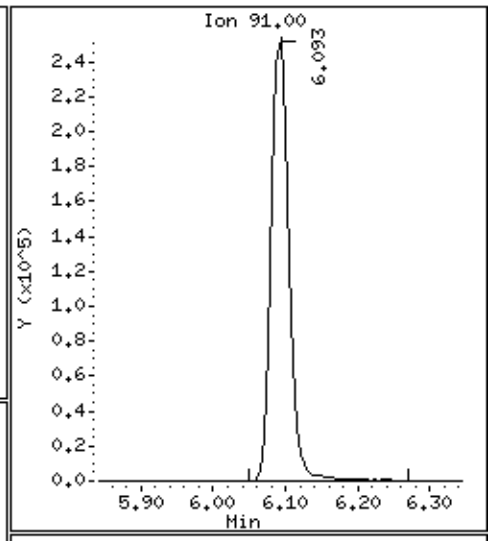
Column diameter: 0.18

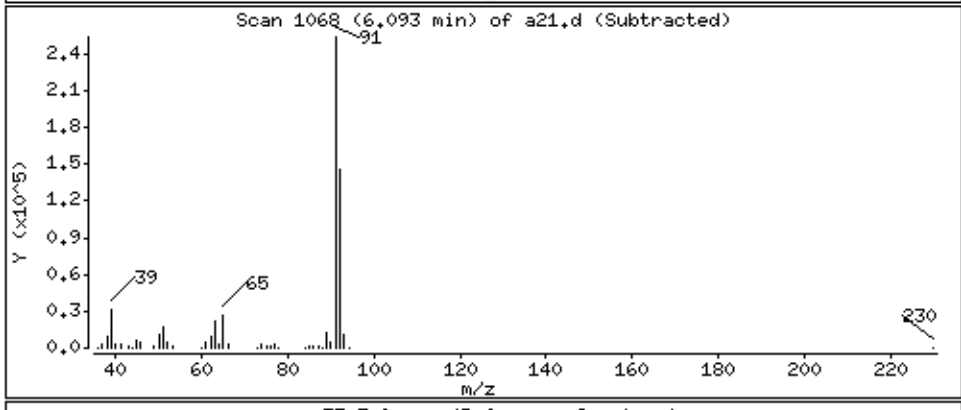
57 Toluene

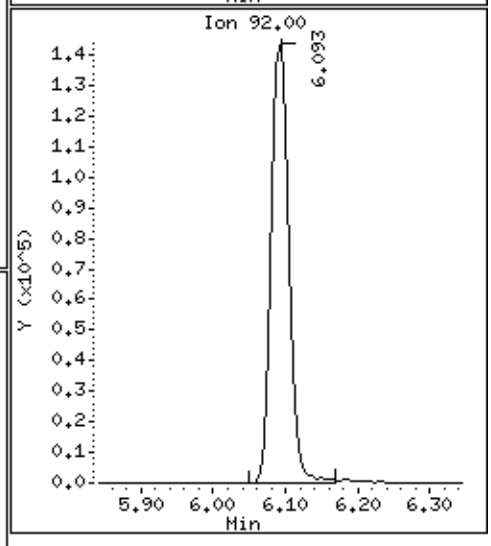
Concentration: 41.6 ppb

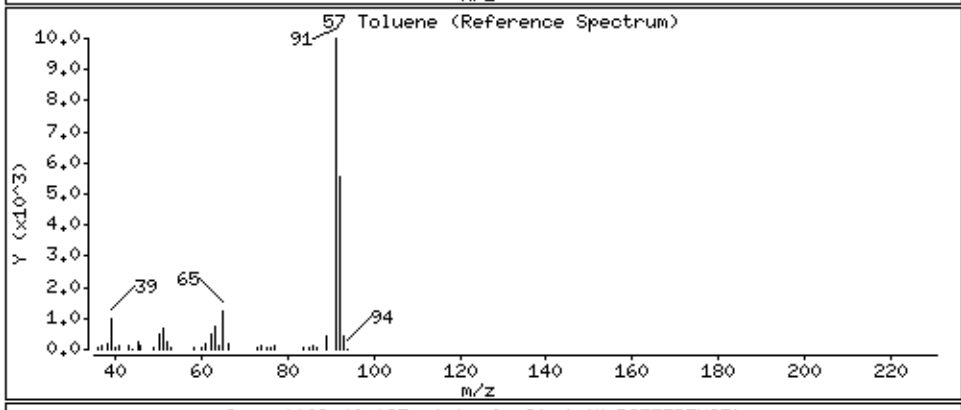
Review Code:

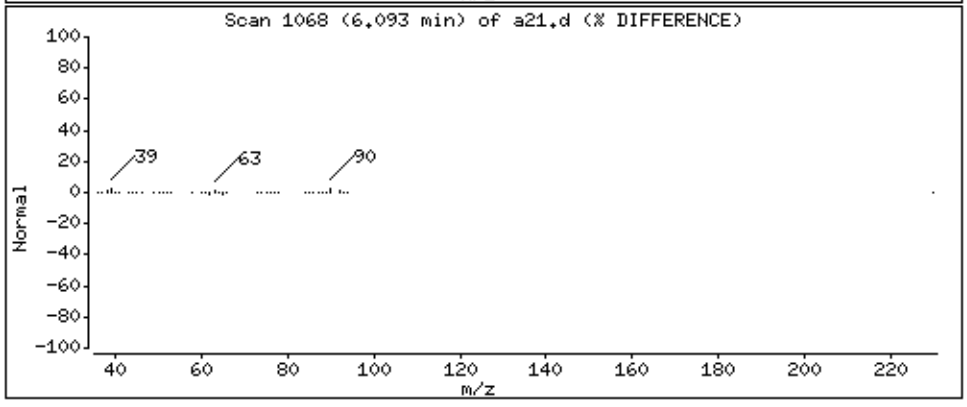












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

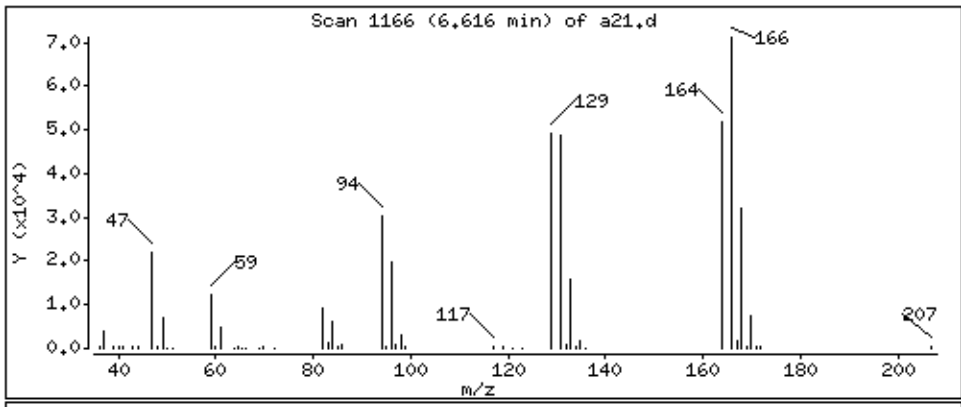
Column phase: DB-624

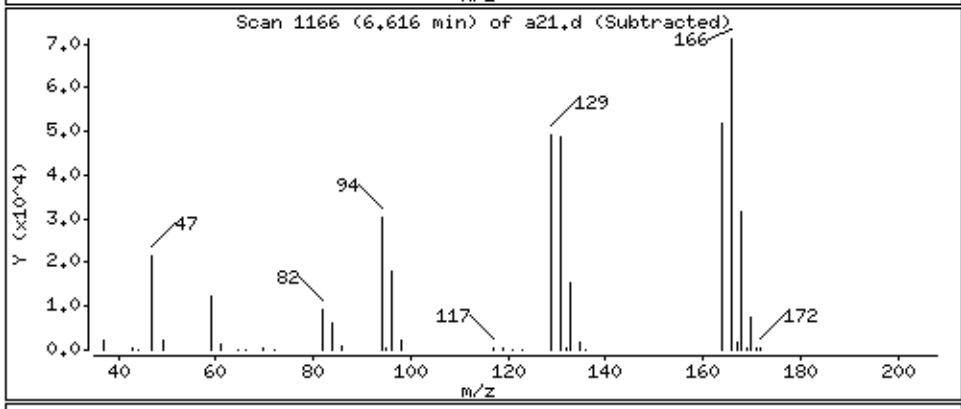
Column diameter: 0.18

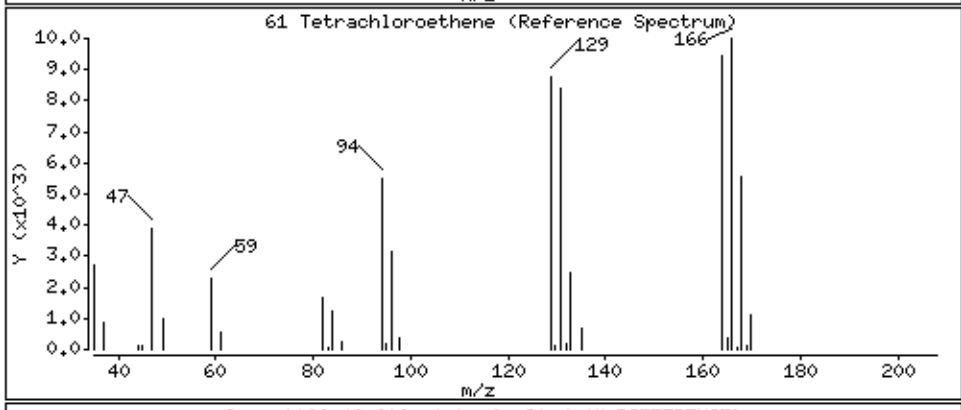
61 Tetrachloroethene

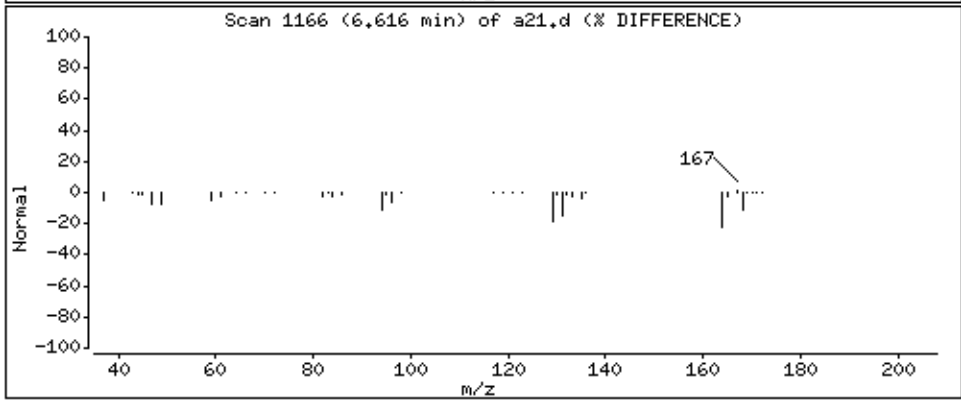
Concentration: 48.7 ppb

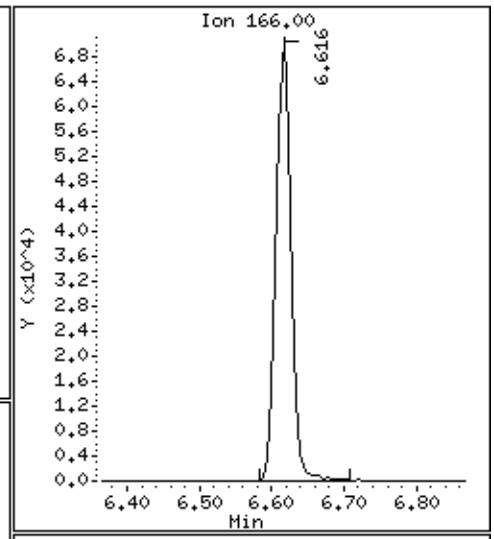
Review Code:

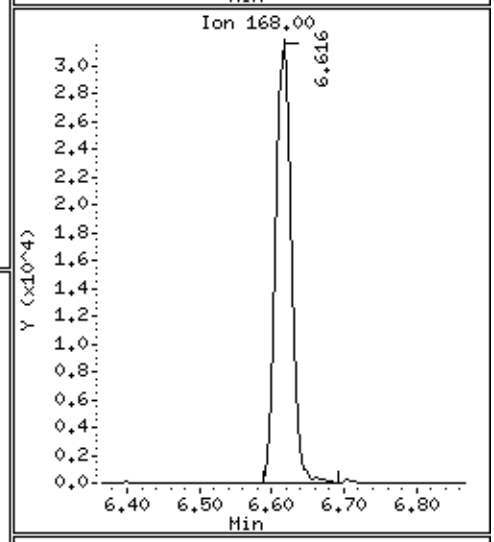


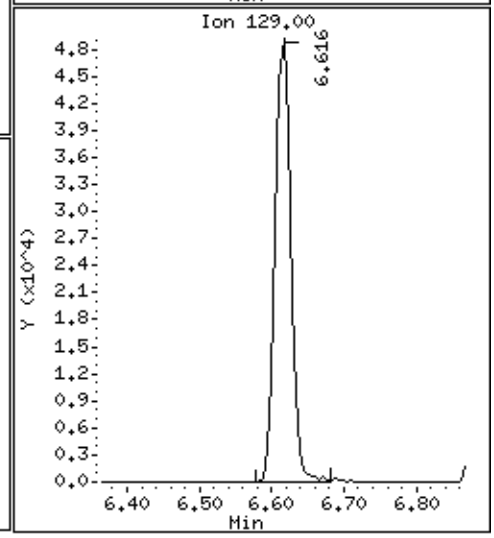












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

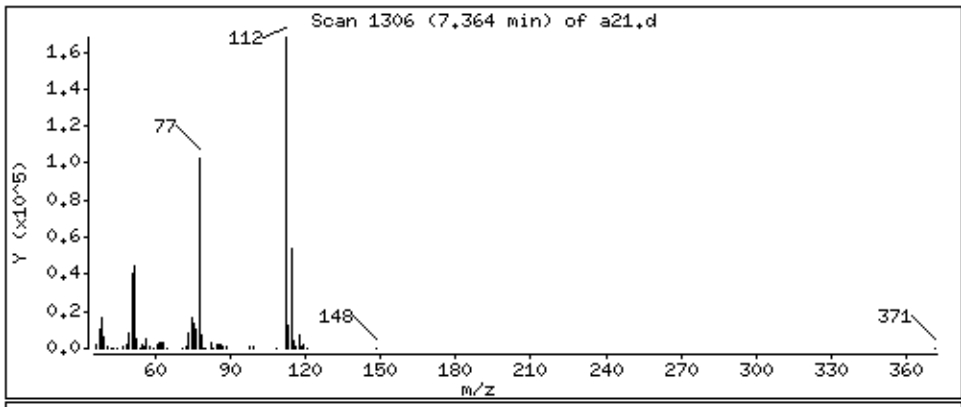
Column phase: DB-624

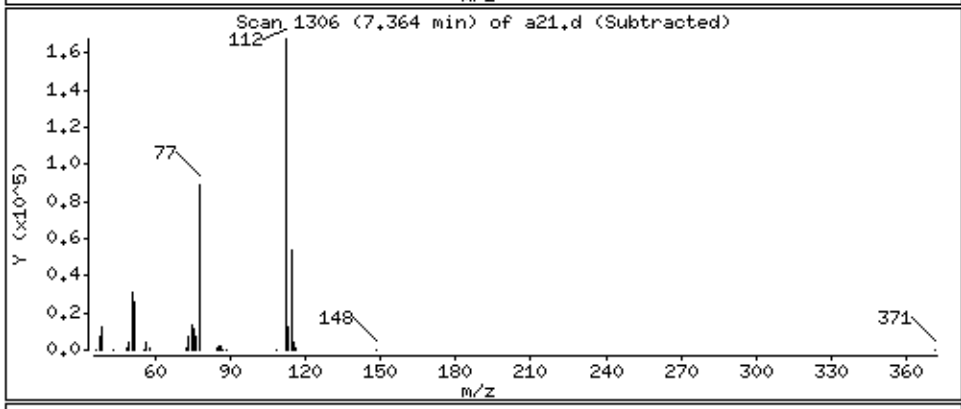
Column diameter: 0.18

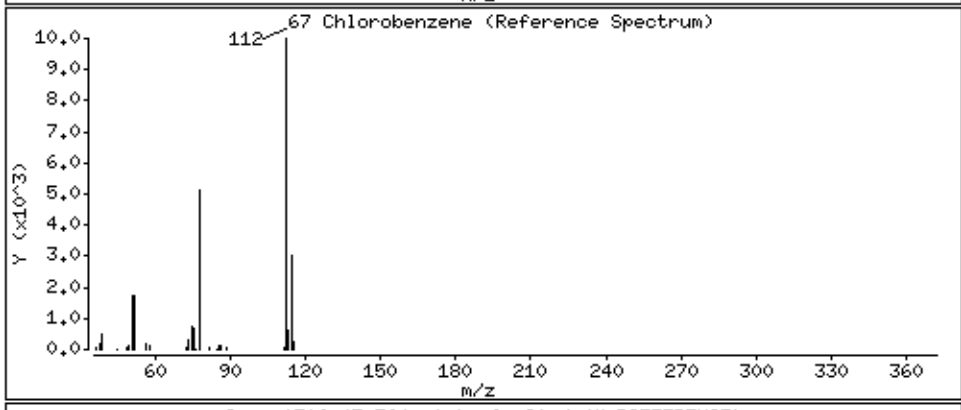
67 Chlorobenzene

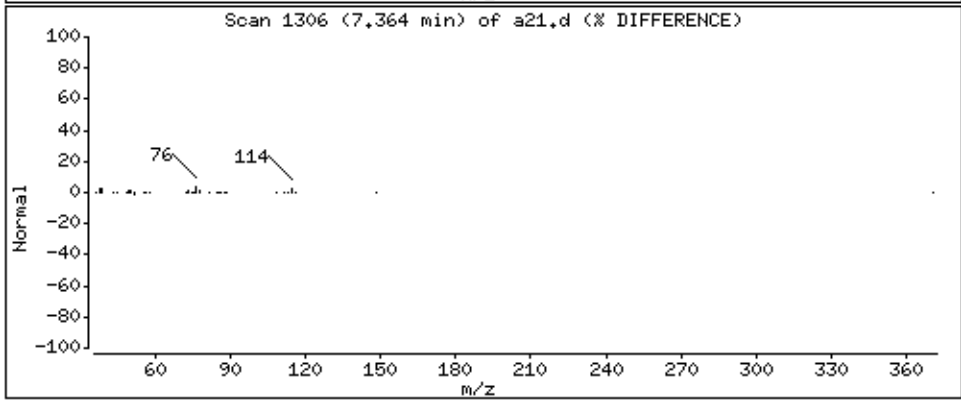
Concentration: 43.4 ppb

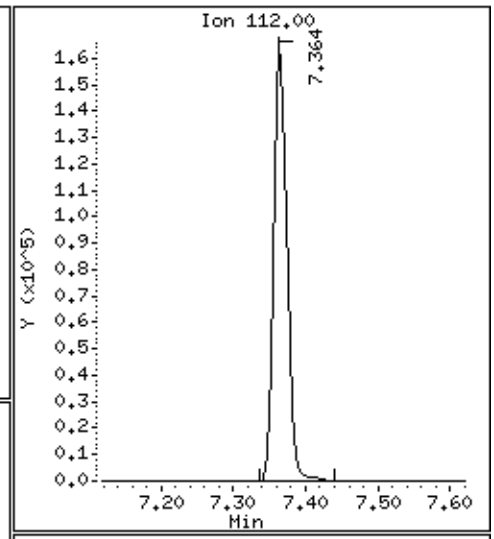
Review Code:

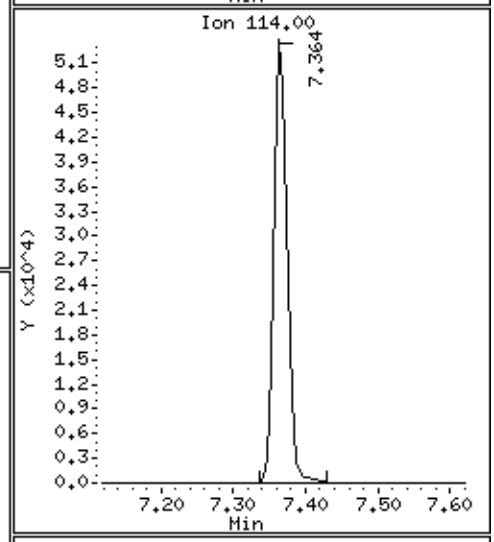


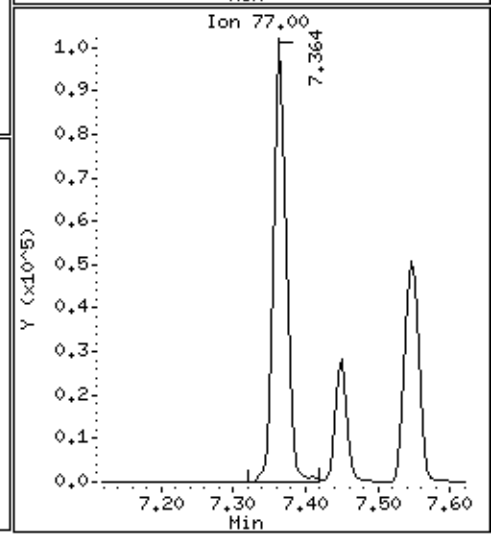












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

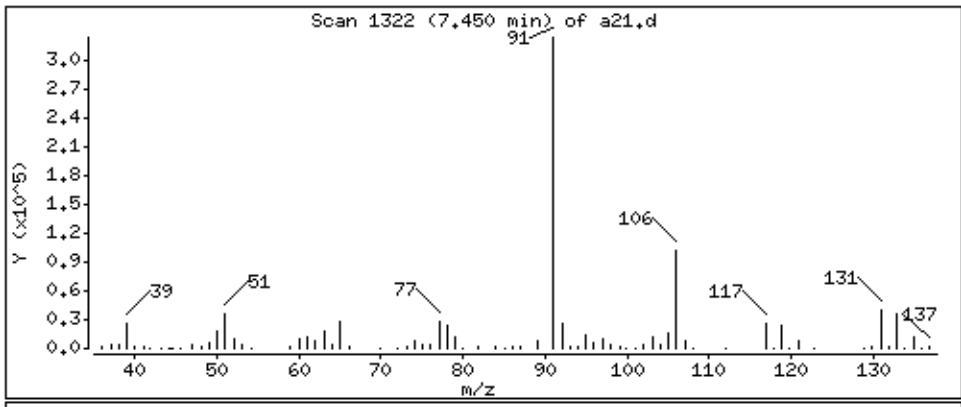
Column phase: DB-624

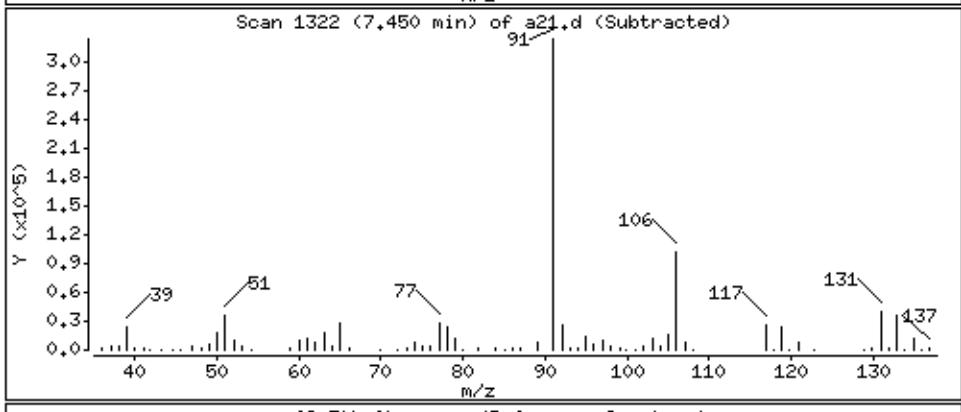
Column diameter: 0.18

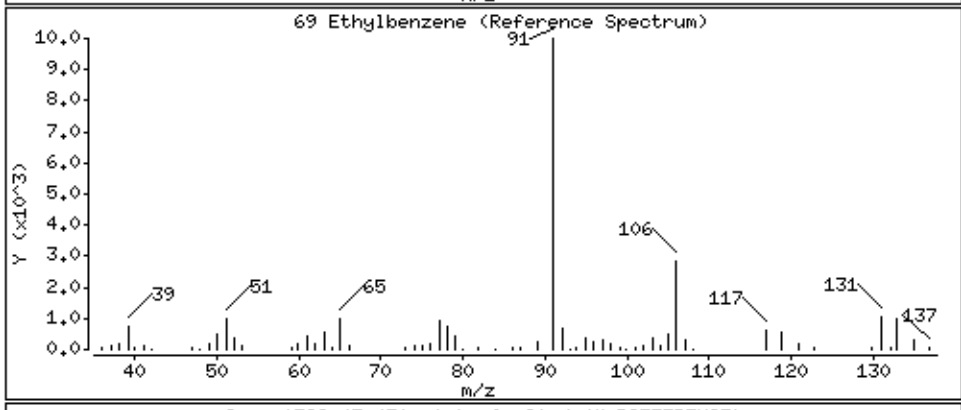
69 Ethylbenzene

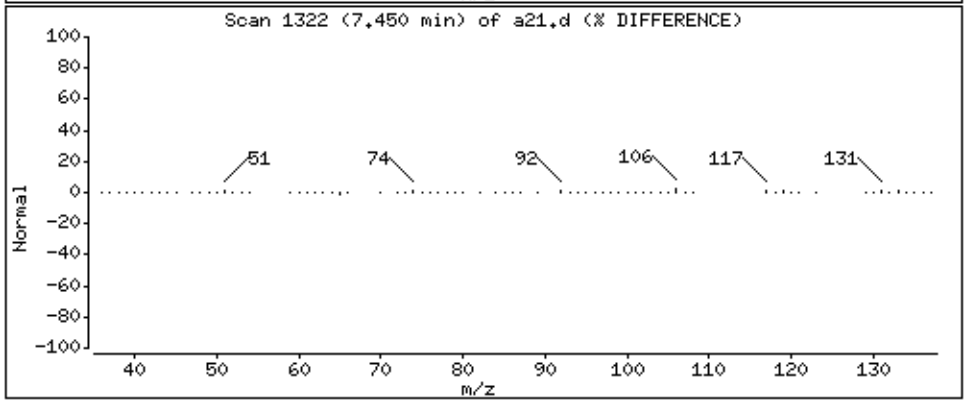
Concentration: 45.1 ppb

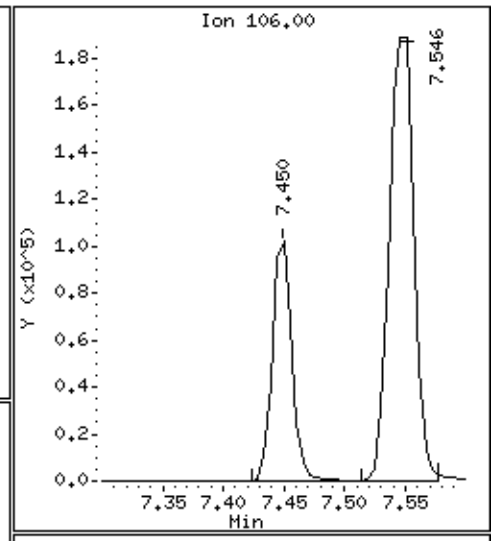
Review Code:

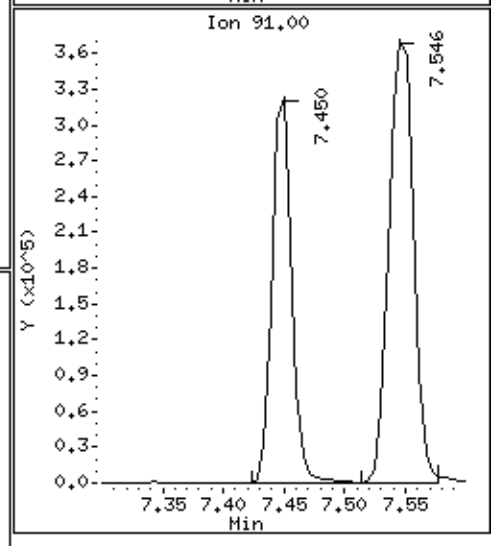












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

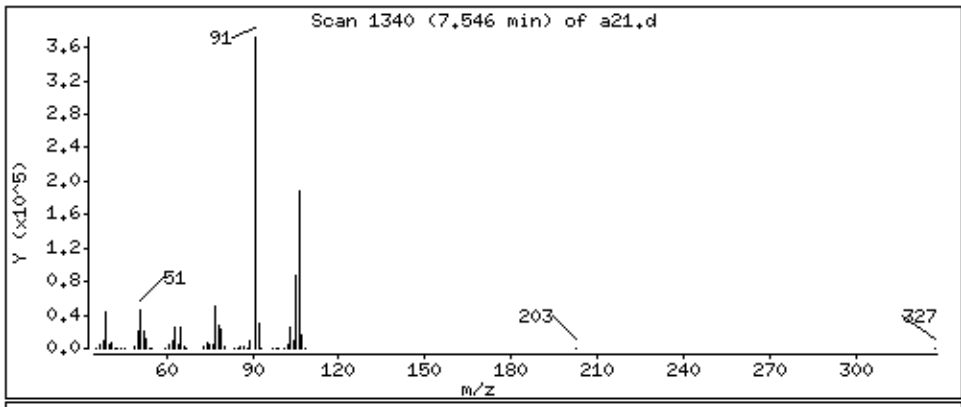
Column phase: DB-624

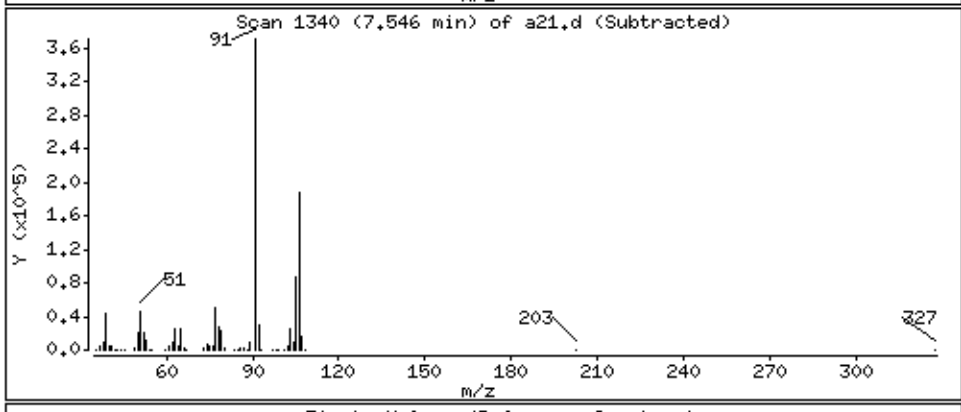
Column diameter: 0.18

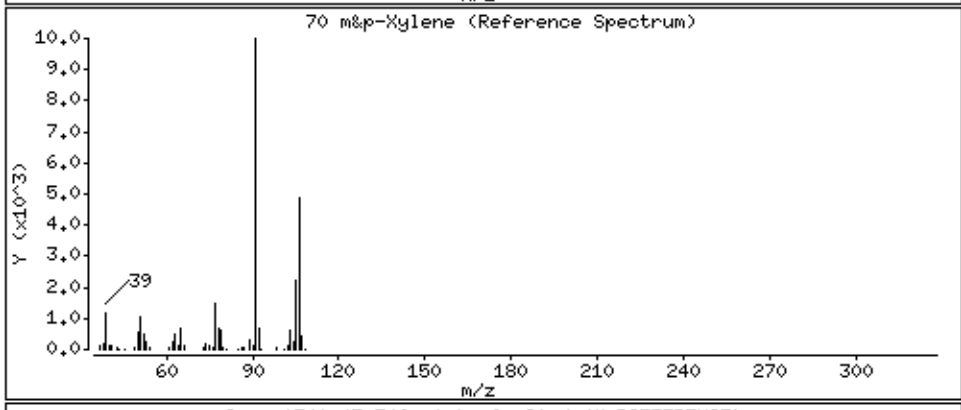
70 m&p-Xylene

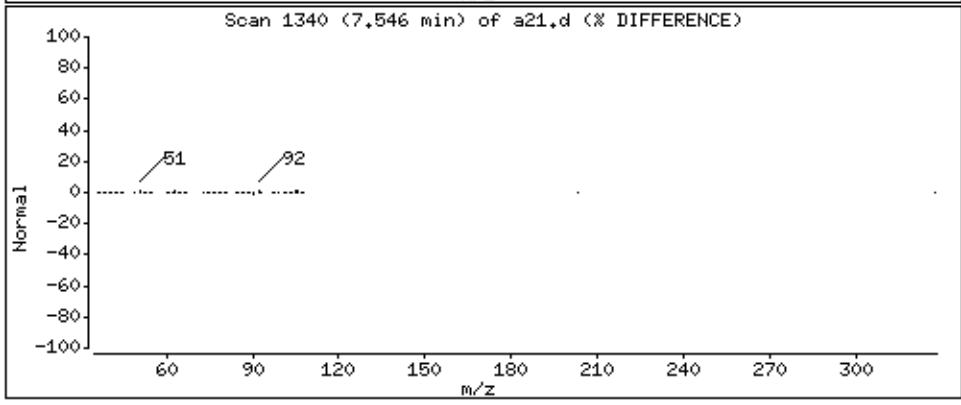
Concentration: 88.8 ppb

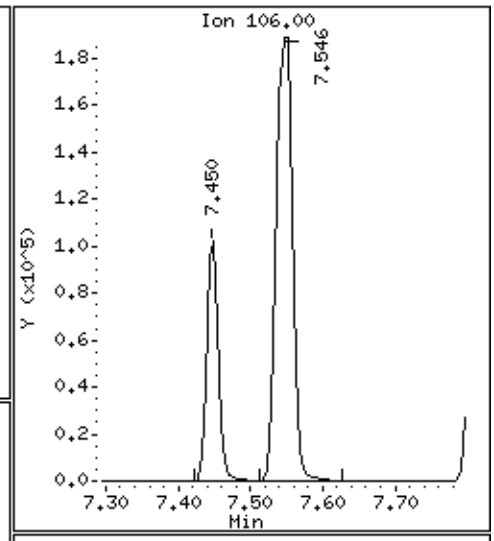
Review Code:

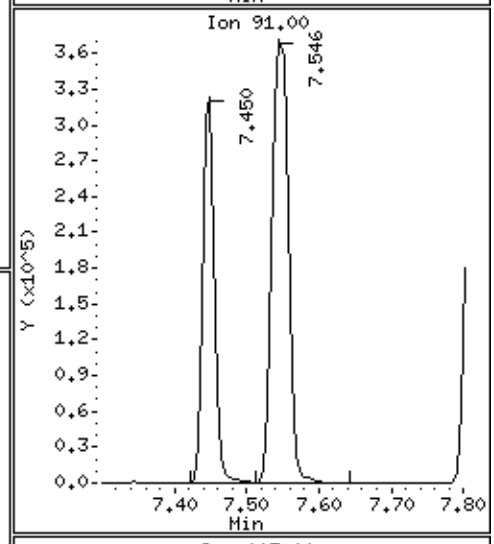


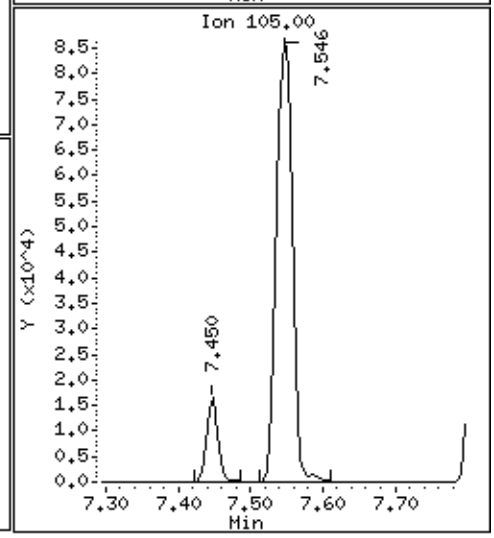












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

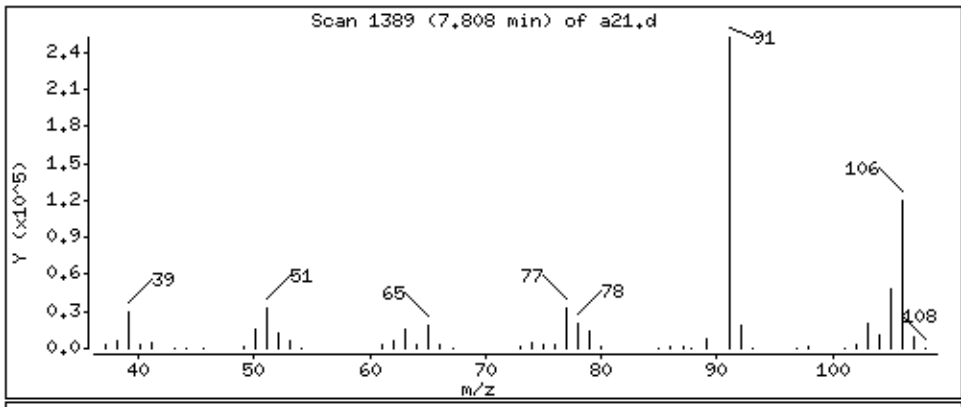
Column phase: DB-624

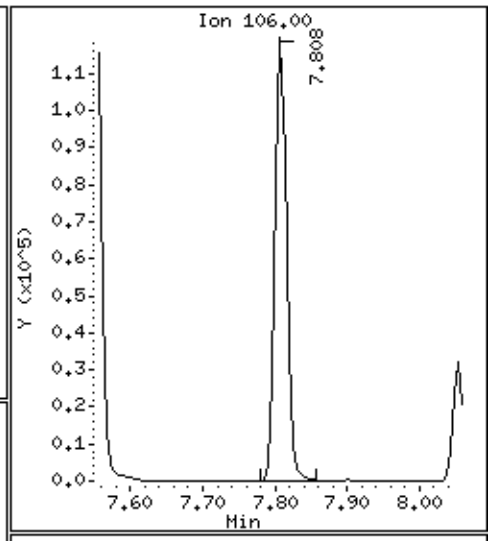
Column diameter: 0.18

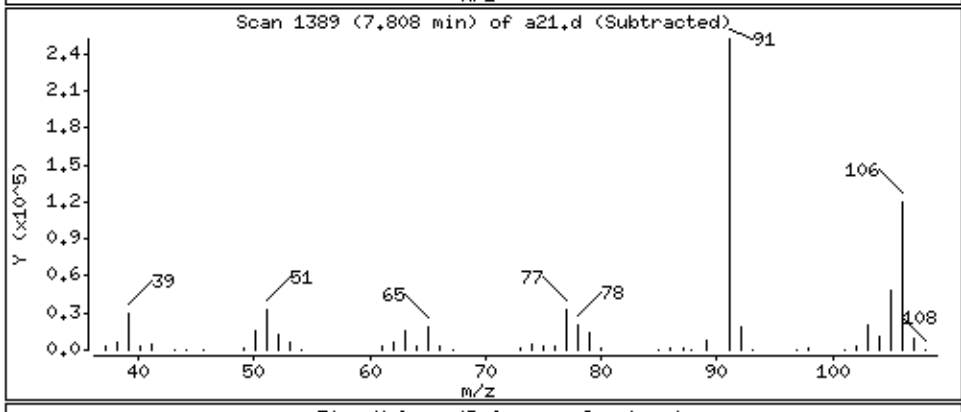
71 o-Xylene

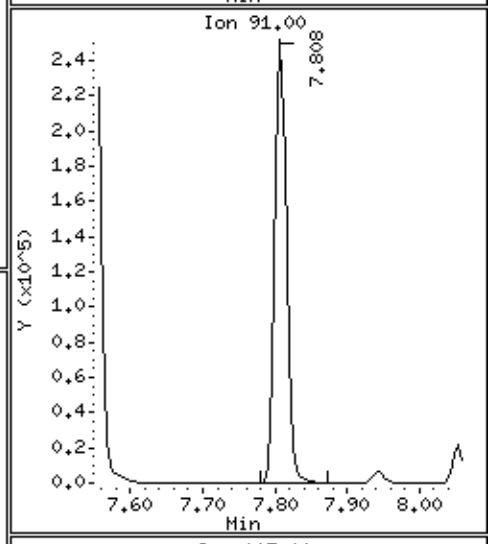
Concentration: 43.8 ppb

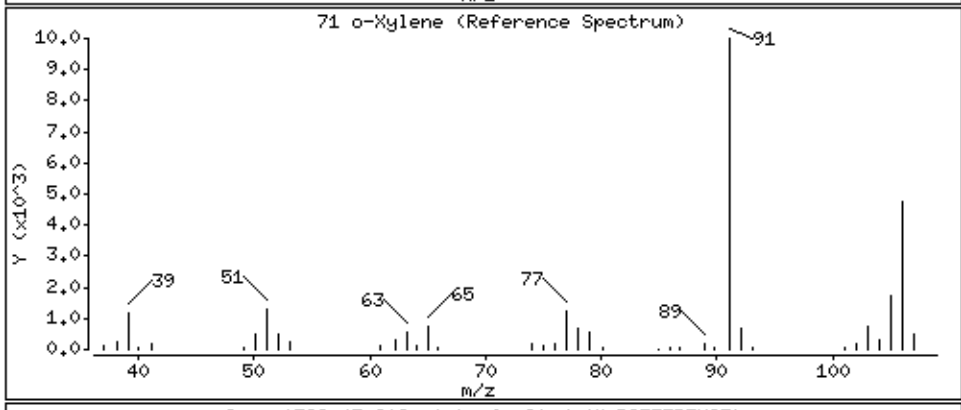
Review Code:

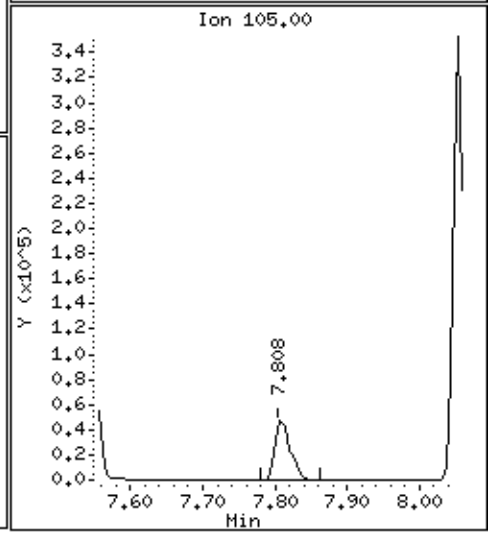


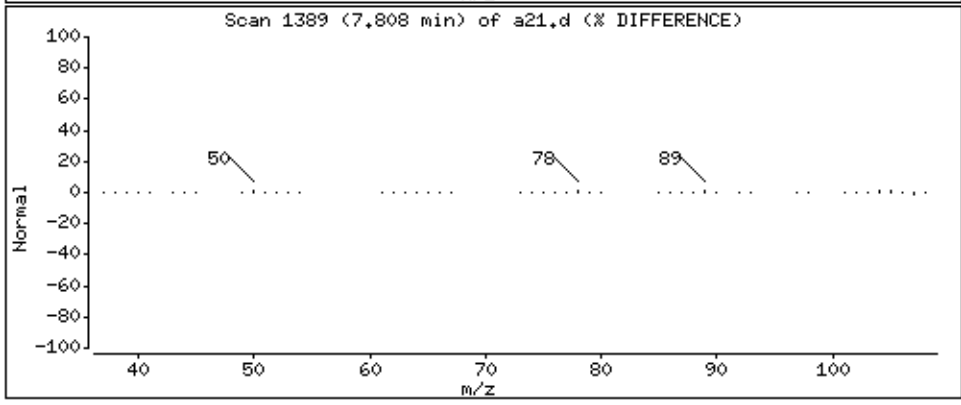












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

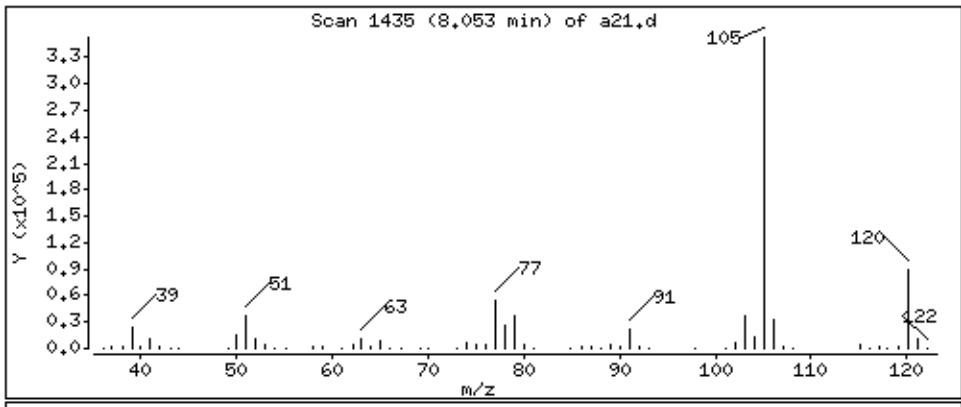
Column phase: DB-624

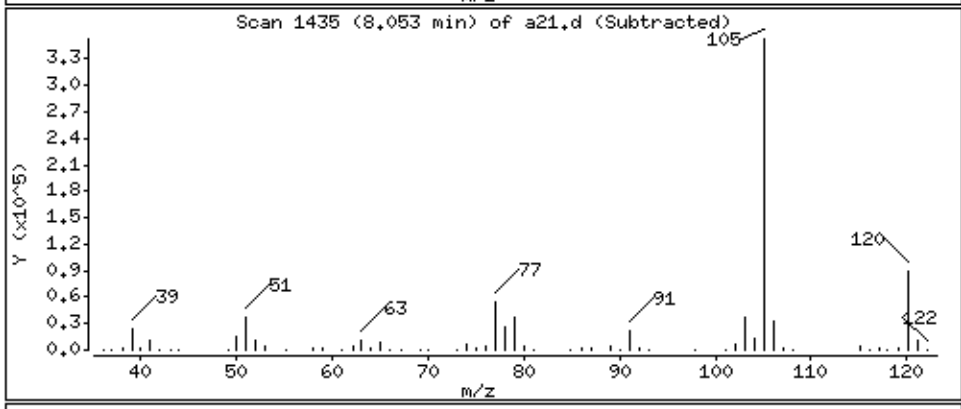
Column diameter: 0.18

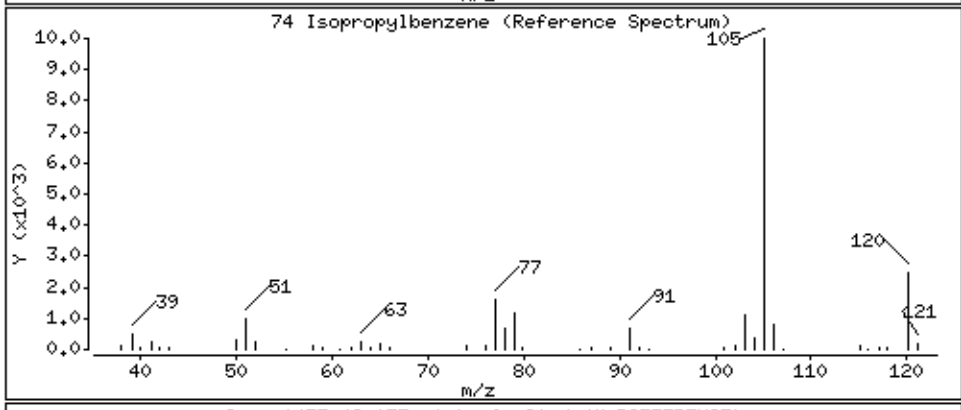
74 Isopropylbenzene

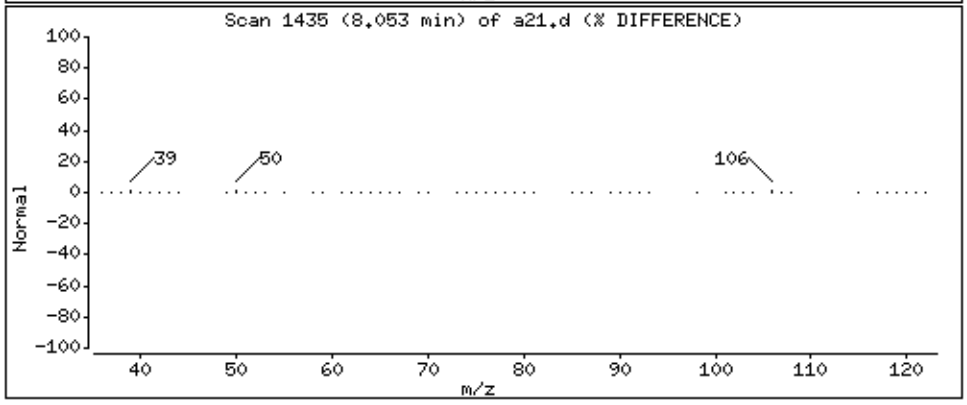
Concentration: 46.1 ppb

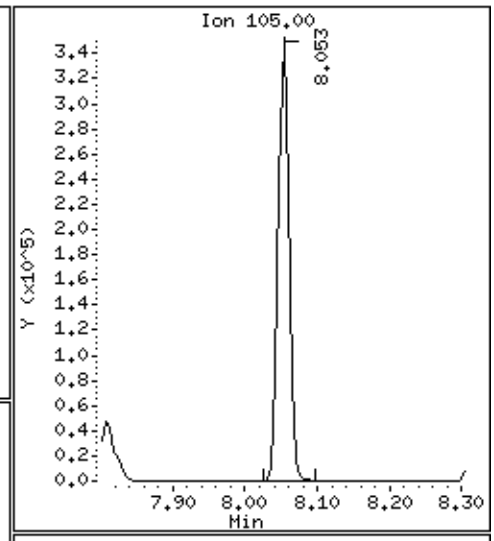
Review Code:

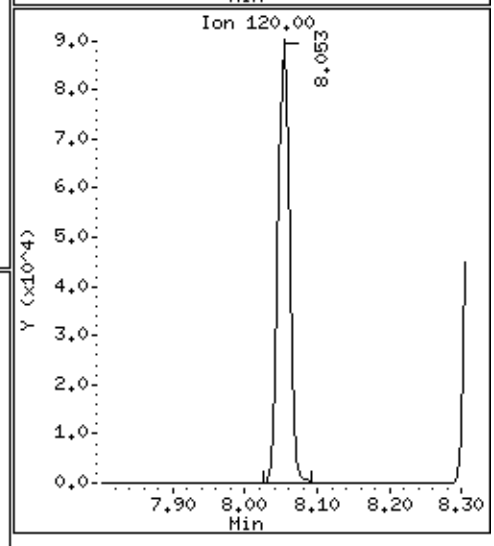












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

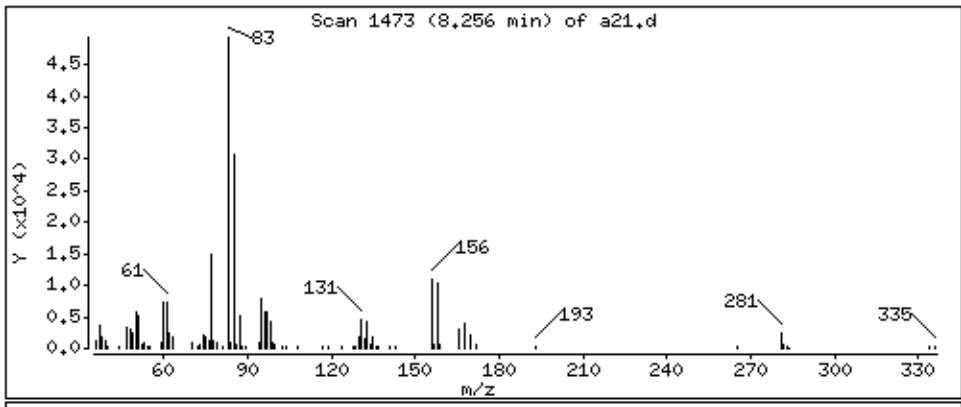
Column phase: DB-624

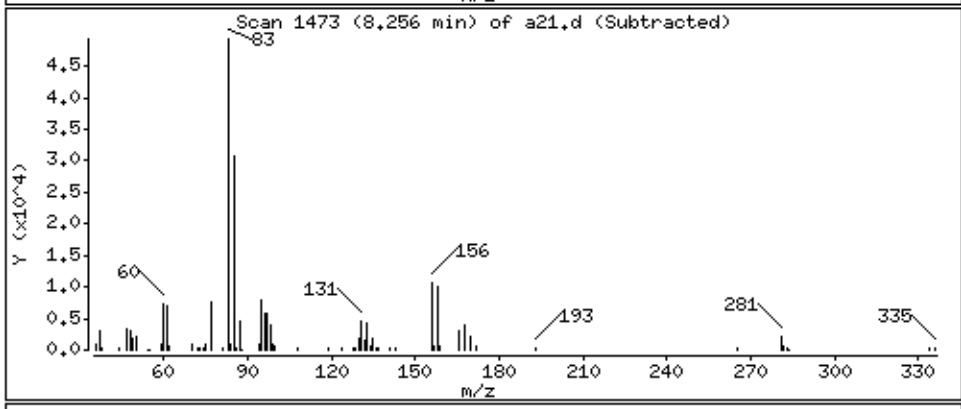
Column diameter: 0.18

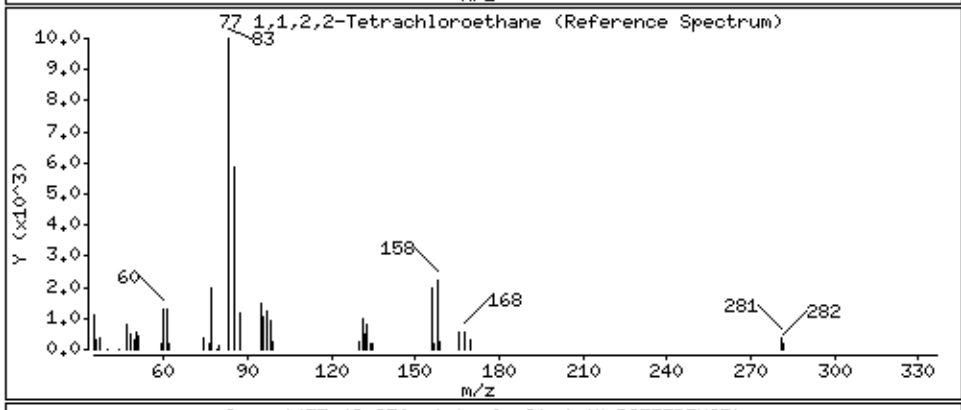
77 1,1,2,2-Tetrachloroethane

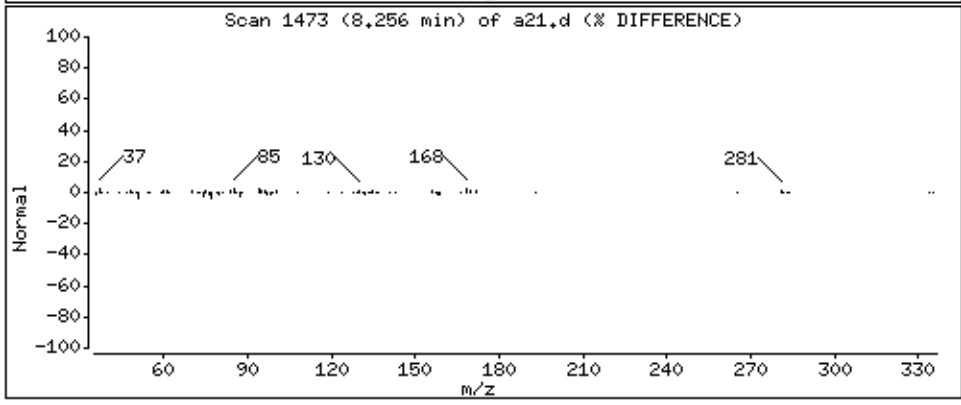
Concentration: 43.1 ppb

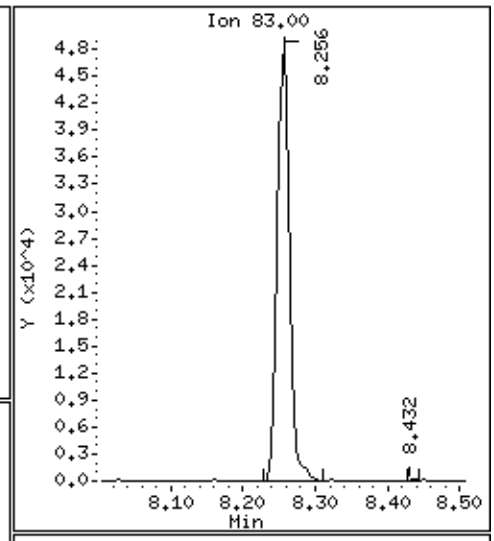
Review Code:

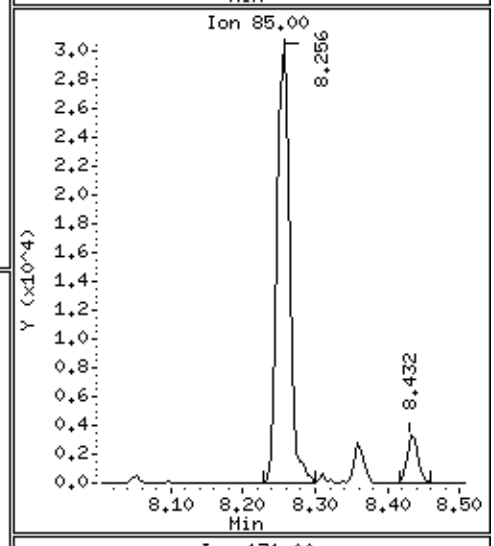


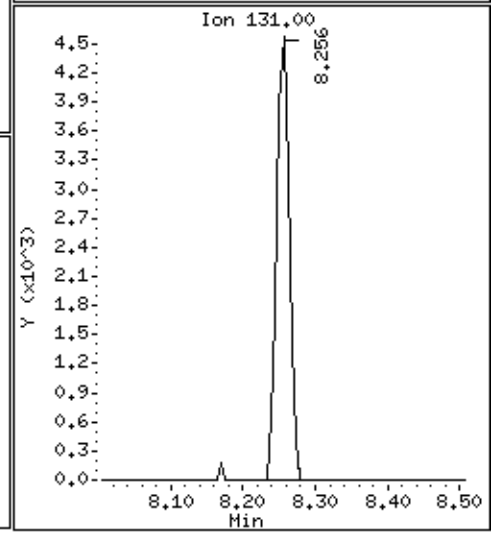












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

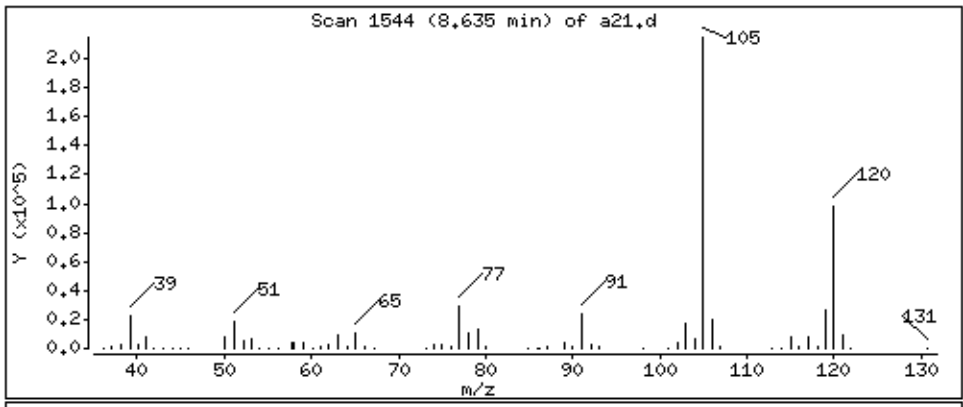
Column phase: DB-624

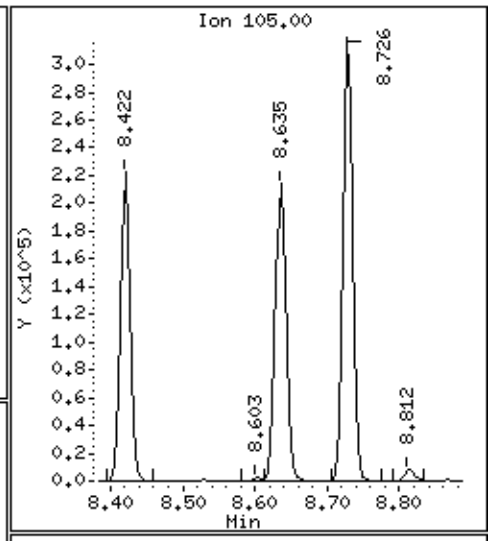
Column diameter: 0.18

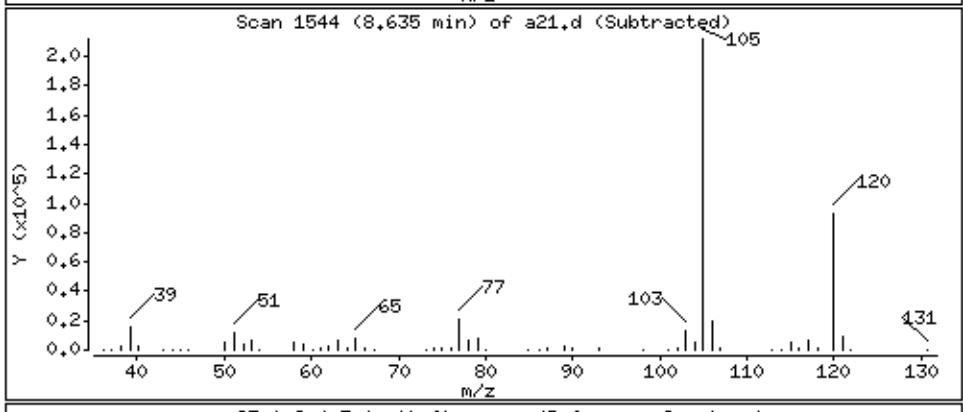
85 1,2,4-Trimethylbenzene

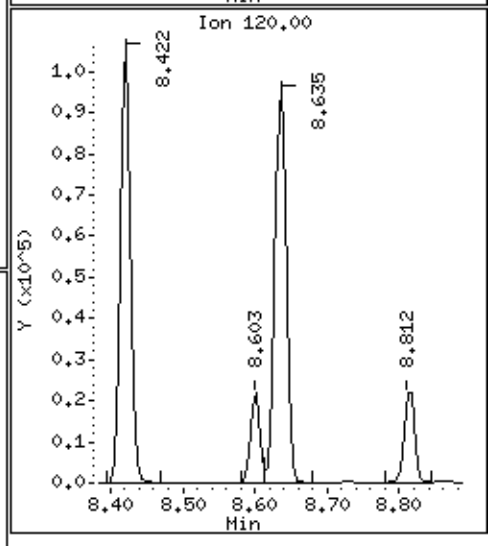
Concentration: 41.6 ppb

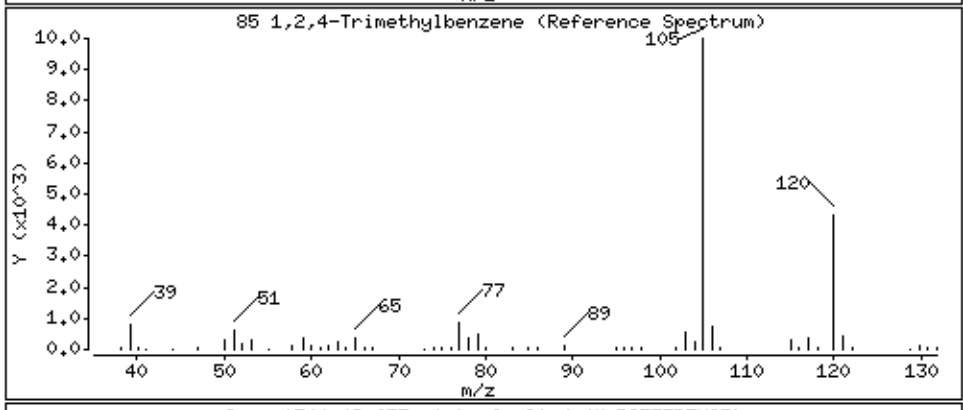
Review Code:

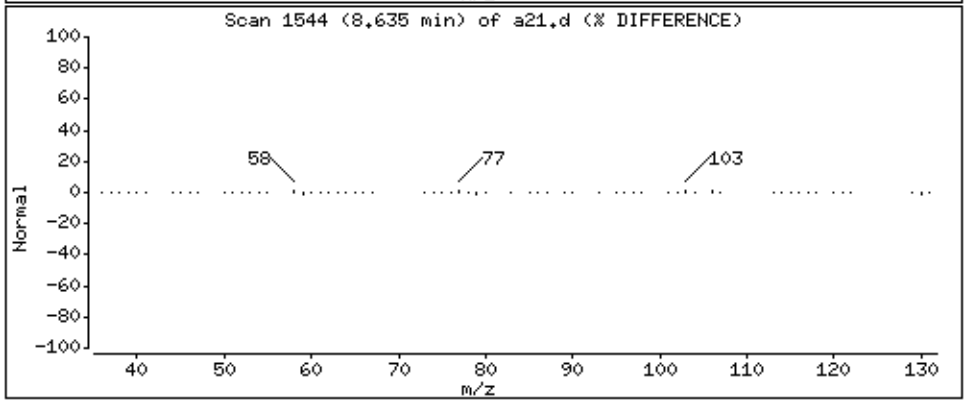












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a21.d

Date : 11-APR-2016 21:21

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516524,118316:5

Purge Volume: 5.0

Operator: jlz

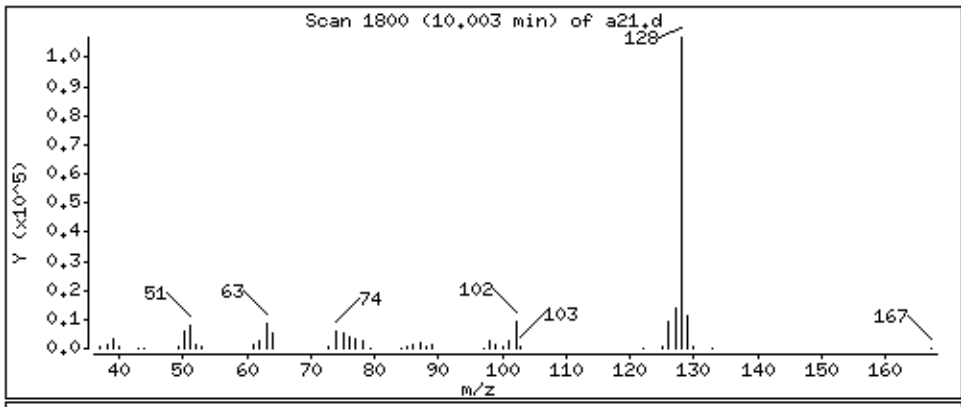
Column phase: DB-624

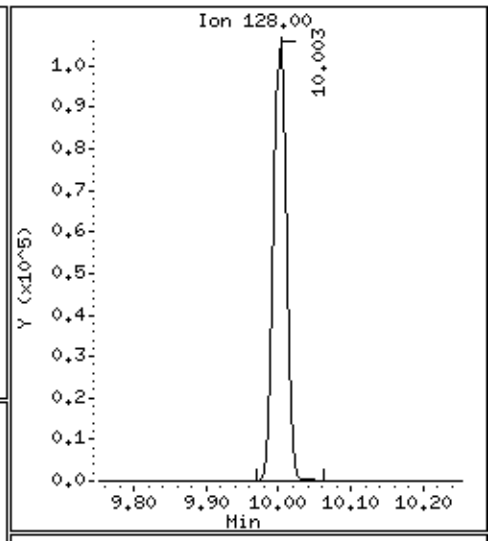
Column diameter: 0.18

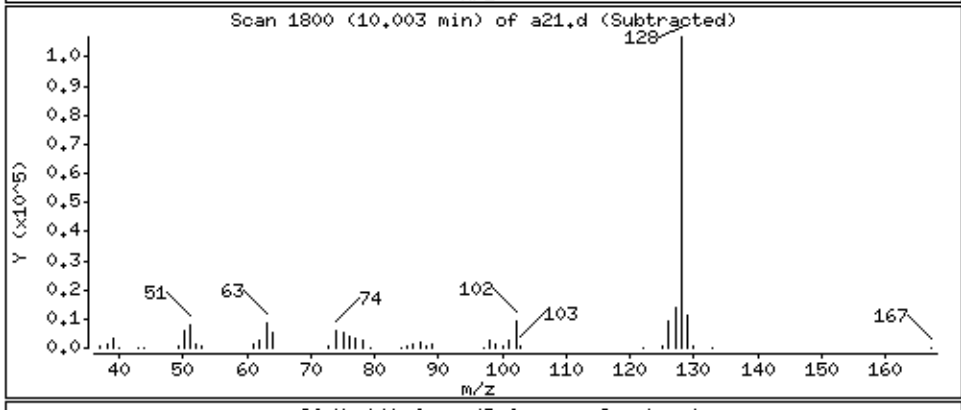
96 Naphthalene

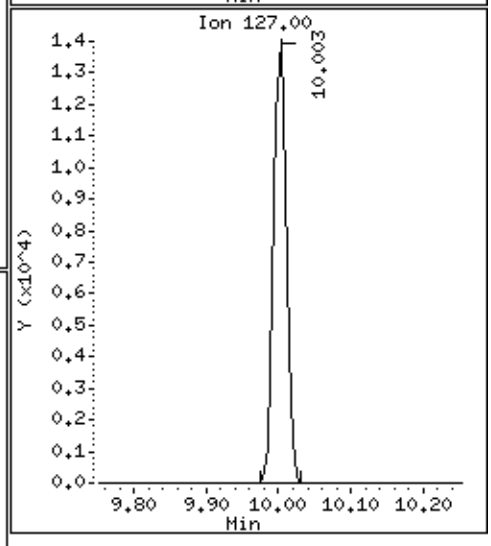
Concentration: 41.9 ppb

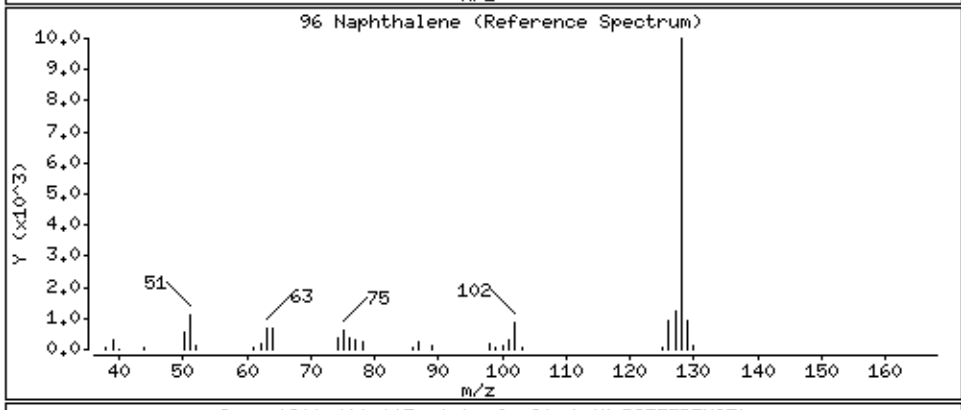
Review Code:

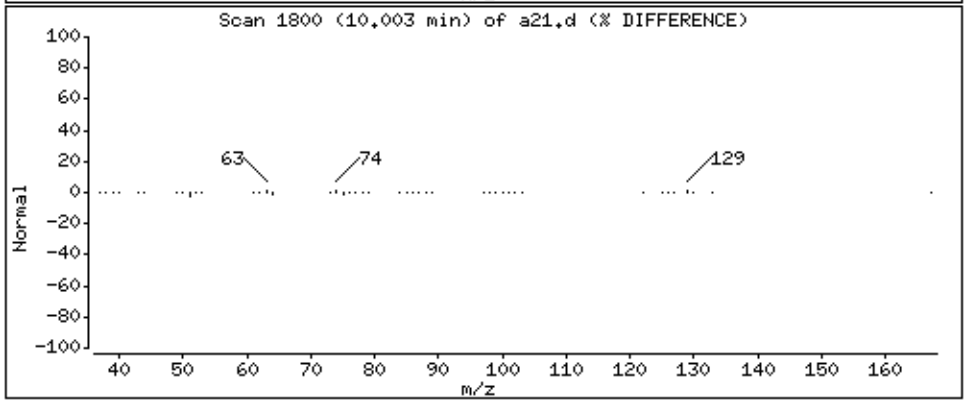












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a21.d
Injection Date: 11-APR-2016 21:21
Instrument: 50mv3a.i
Lab Sample ID: 1516524
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSD

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Former GM Delco 5

Date Received: 03/30/2016 15:10 Matrix: Water SDG No.: 50141666

Date Extracted: 04/11/2016 21:53 Lab Sample ID: 1516525

Date Analyzed: 04/11/2016 21:53 Lab File ID: A041116.B\A22.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV3A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	44.6	
108-90-7	Chlorobenzene	44.7	
67-66-3	Chloroform	44.3	
75-35-4	1,1-Dichloroethene	42.5	
156-59-2	cis-1,2-Dichloroethene	49.0	
156-60-5	trans-1,2-Dichloroethene	42.9	
78-87-5	1,2-Dichloropropane	44.9	
100-41-4	Ethylbenzene	46.4	
98-82-8	Isopropylbenzene (Cumene)	47.3	
1634-04-4	Methyl-tert-butyl ether	46.7	
79-34-5	1,1,2,2-Tetrachloroethane	46.2	
127-18-4	Tetrachloroethene	48.4	
108-88-3	Toluene	41.0	
71-55-6	1,1,1-Trichloroethane	46.9	
79-01-6	Trichloroethene	45.2	
75-01-4	Vinyl chloride	42.4	
1330-20-7	Xylene (Total)	136	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d
Lab Smp Id: 1516525 Client Smp ID: MW-0501-S1(033016)P
Inj Date : 11-APR-2016 21:53
Operator : jlz Inst ID: 50mv3a.i
Smp Info : 1516525,118316:5
Misc Info : 88901
Comment :
Method : \\192.168.50.6\chem\50mv3a.i\a041116.b\-a8260_a_c.m
Meth Date : 12-Apr-2016 14:39 50mv3a.i Quant Type: ISTD
Cal Date : 25-MAR-2016 19:21 Cal File: a11cal8.d
Als bottle: 45 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

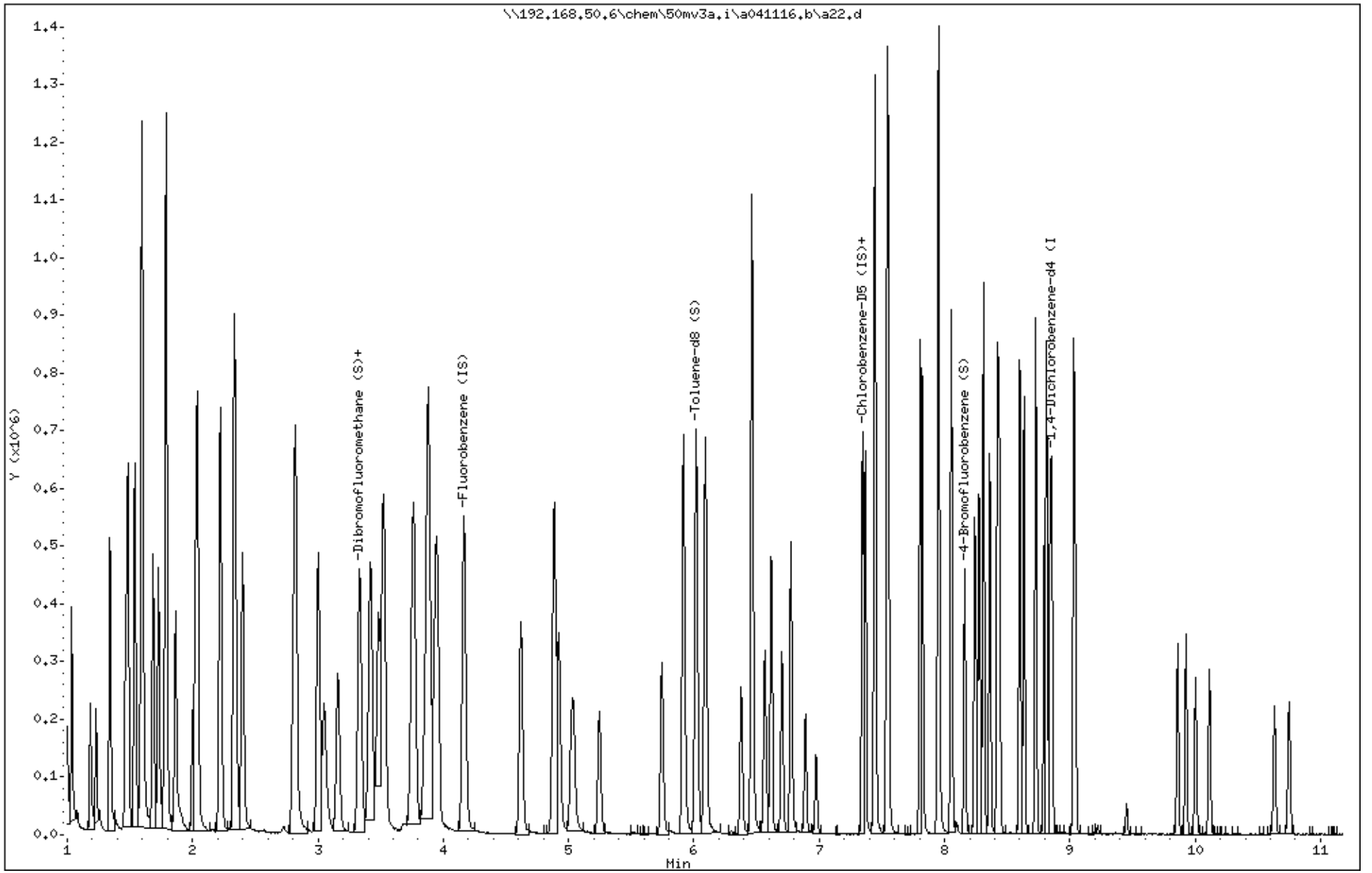
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ppb)	REVIEW C
	3 Vinyl Chloride	62	1.036	1.033	(0.249)	195886	42.3934	42.4	
	11 1,1-Dichloroethene	96	1.597	1.594	(0.383)	138529	42.4530	42.4	
	20 Methyl-tert-butyl ether	73	2.024	2.027	(0.486)	298965	46.7339	46.7	
	22 1,2-Dichloroethene (trans)	96	2.040	2.038	(0.490)	128727	42.9160	42.9	
	28 1,2-Dichloroethene (cis)	96	2.815	2.812	(0.676)	145886	48.9705	49.0	
	34 Chloroform	83	3.157	3.159	(0.758)	209806	44.2899	44.3	
	36 1,1,1-Trichloroethane	97	3.338	3.330	(0.801)	192083	46.9223	46.9	
$	35 Dibromofluoromethane (S)	113	3.333	3.330	(0.800)	118224	48.2576	48.2	
	41 Benzene	78	3.765	3.763	(0.904)	503285	44.6471	44.6	
*	45 Fluorobenzene (IS)	96	4.166	4.163	(1.000)	543720	50.0000		
	46 Trichloroethene	95	4.615	4.612	(1.108)	124429	45.1504	45.2	
	48 1,2-Dichloropropane	63	4.924	4.922	(1.182)	115706	44.9326	44.9	
$	56 Toluene-d8 (S)	98	6.019	6.017	(0.820)	416475	47.8889	47.9	
	57 Toluene	91	6.089	6.091	(0.829)	456960	40.9868	41.0	
	61 Tetrachloroethene	166	6.612	6.615	(0.900)	107190	48.3958	48.4	
*	66 Chlorobenzene-D5 (IS)	117	7.344	7.341	(1.000)	253144	50.0000		
	67 Chlorobenzene	112	7.365	7.368	(1.003)	230135	44.6869	44.7	
	69 Ethylbenzene	106	7.445	7.448	(1.014)	135530	46.4469	46.4	
	70 m&p-Xylene	106	7.547	7.544	(1.028)	320936	90.2129	90.2	
	71 o-Xylene	106	7.809	7.806	(1.063)	142783	45.3030	45.3	
	74 Isopropylbenzene	105	8.054	8.052	(1.097)	386453	47.2889	47.3	
$	75 4-Bromofluorobenzene (S)	95	8.161	8.164	(1.111)	92881	44.4065	44.4	
	77 1,1,2,2-Tetrachloroethane	83	8.257	8.255	(0.934)	62491	46.2434	46.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ppb)	REVIEW C
85 1,2,4-Trimethylbenzene	105	8.637	8.634	(0.977)	242861	44.0469	44.0	
* 89 1,4-Dichlorobenzene-d4 (IS)	152	8.839	8.842	(1.000)	84725	50.0000		
96 Naphthalene	128	9.998	10.001	(1.131)	145930	44.6416	44.6	

Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d
Date : 11-APR-2016 21:53
Client ID: MW-0501-S1(033016)P
Sample Info: 1516525,118316:5
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv3a.i
Operator: jlz
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

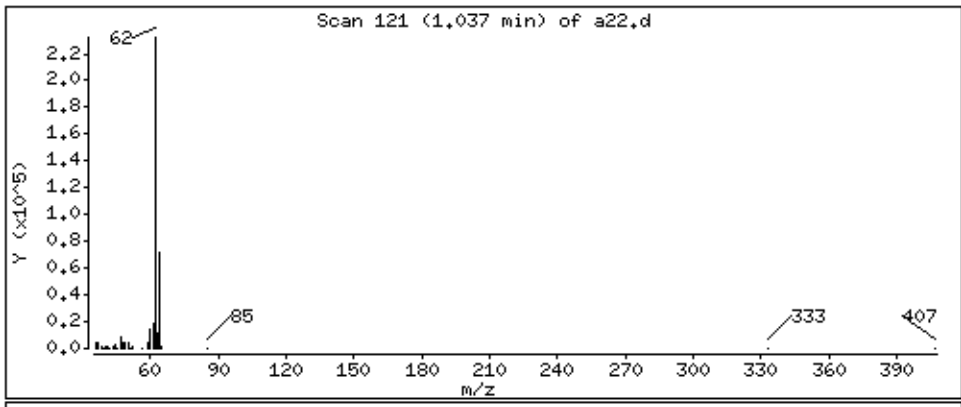
Column phase: DB-624

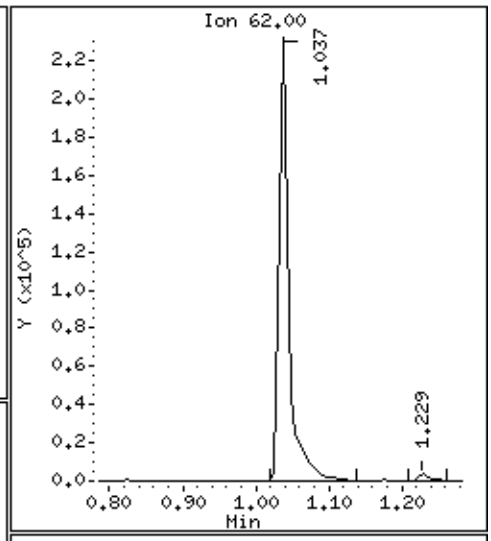
Column diameter: 0.18

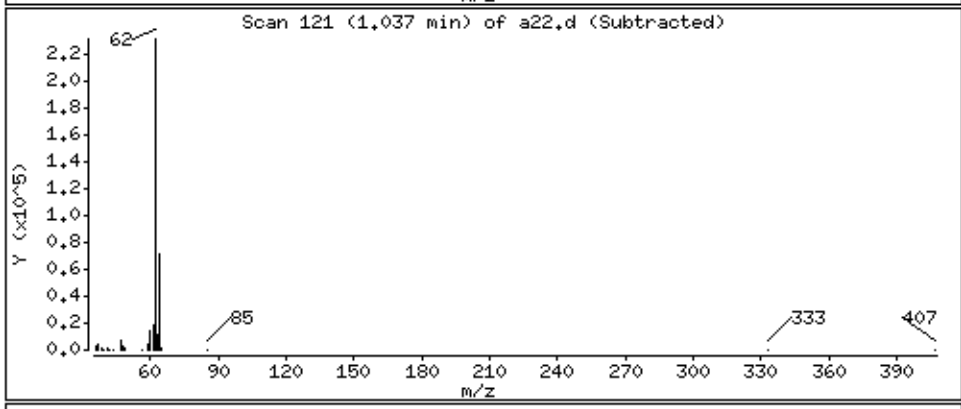
3 Vinyl Chloride

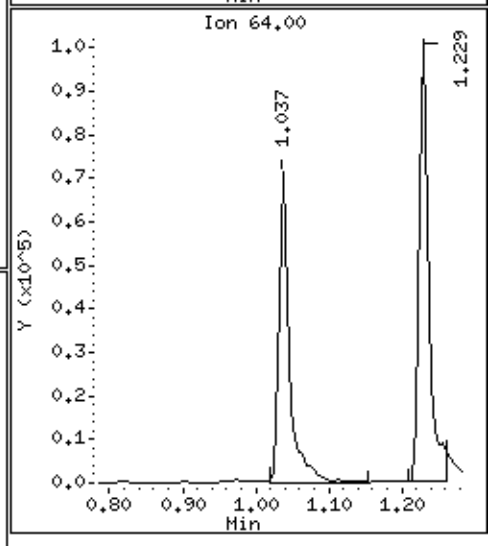
Concentration: 42.4 ppb

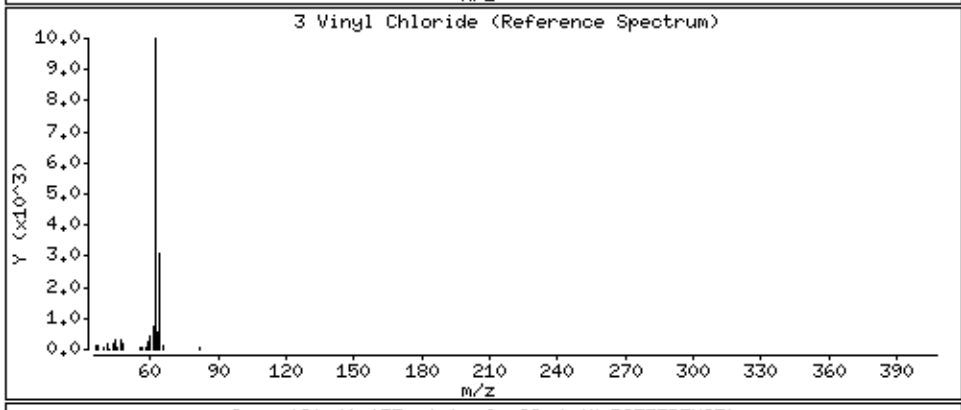
Review Code:

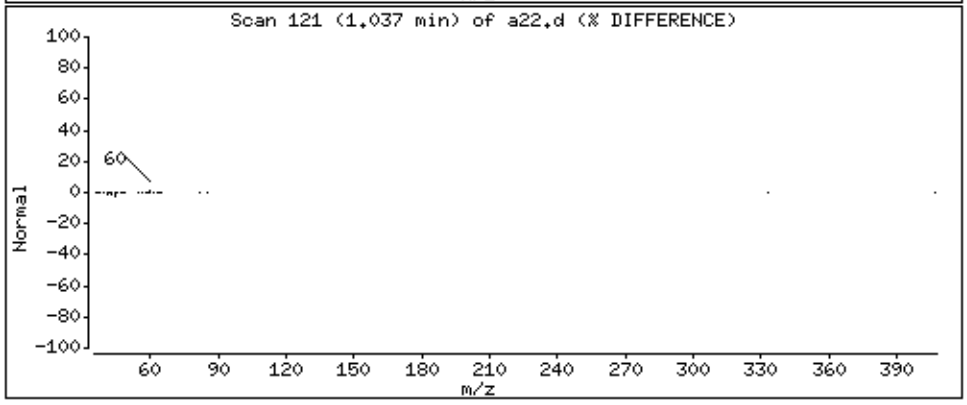












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

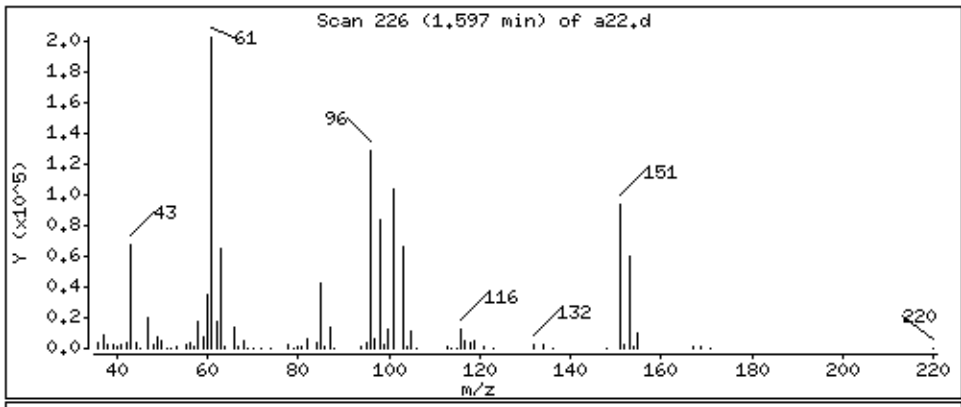
Column phase: DB-624

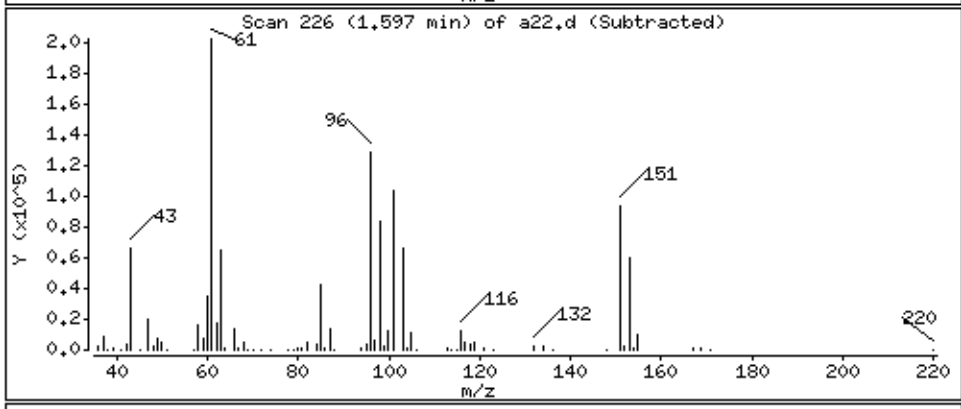
Column diameter: 0.18

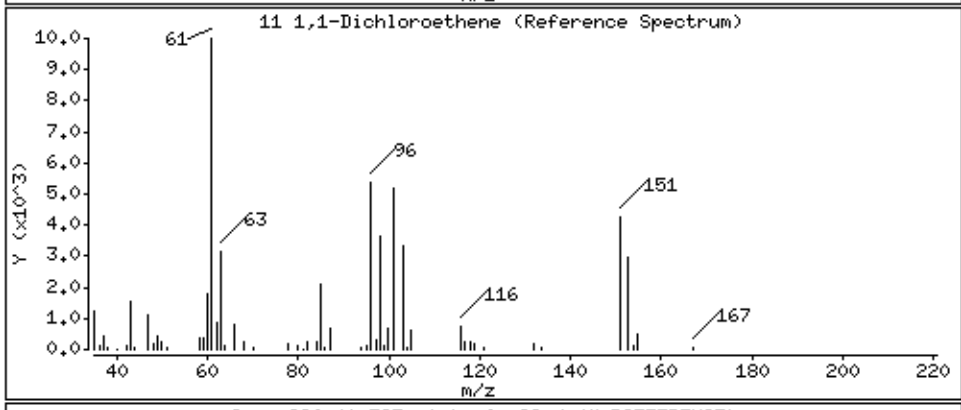
11 1,1-Dichloroethene

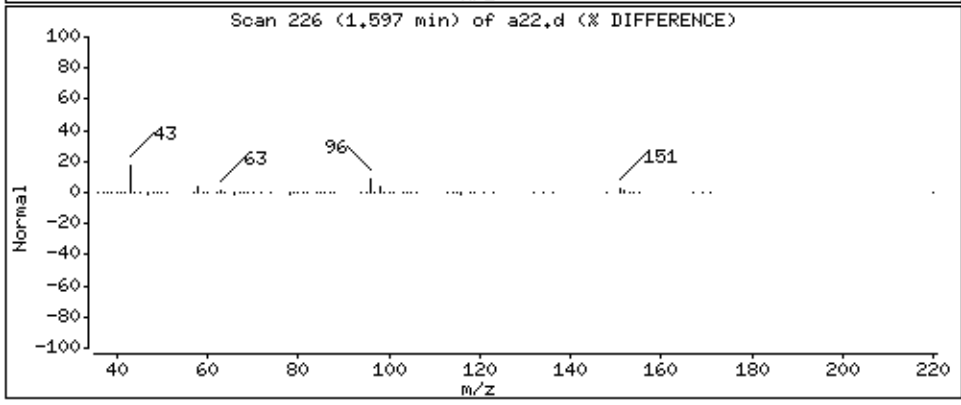
Concentration: 42.4 ppb

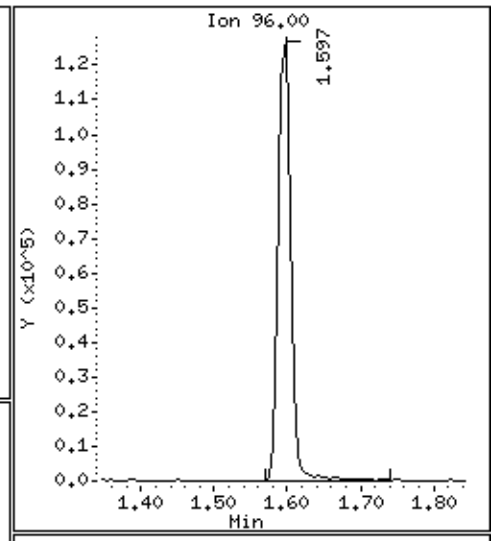
Review Code:

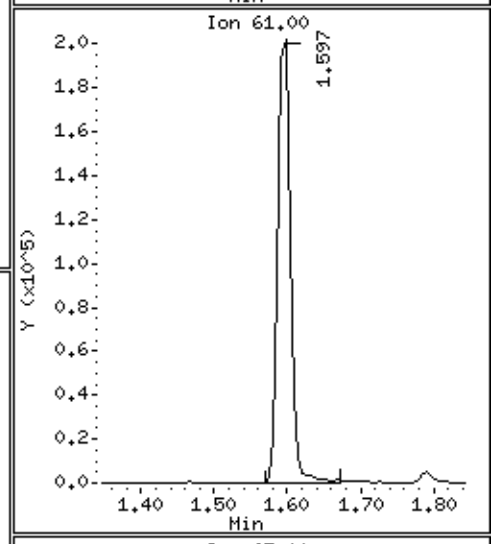


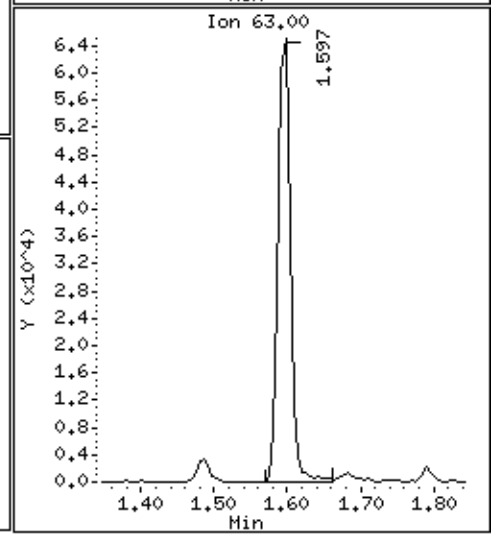












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

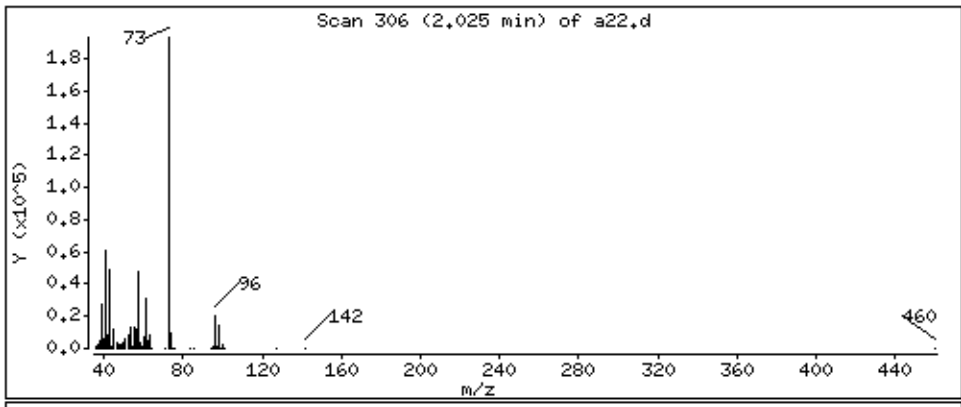
Column phase: DB-624

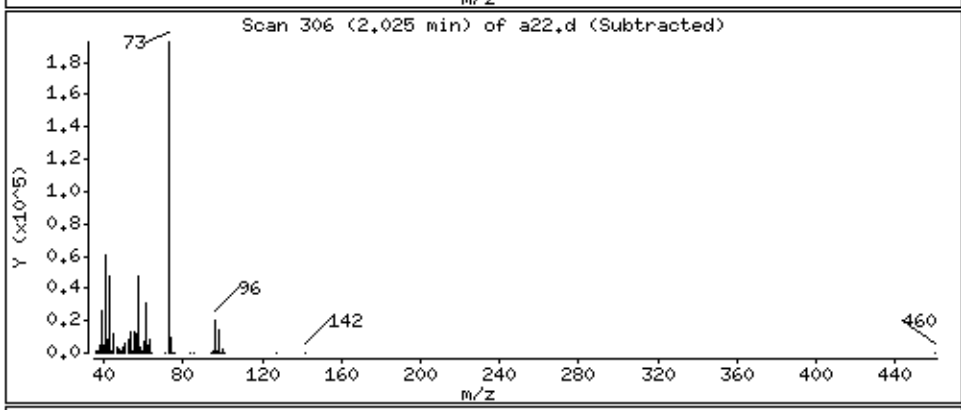
Column diameter: 0.18

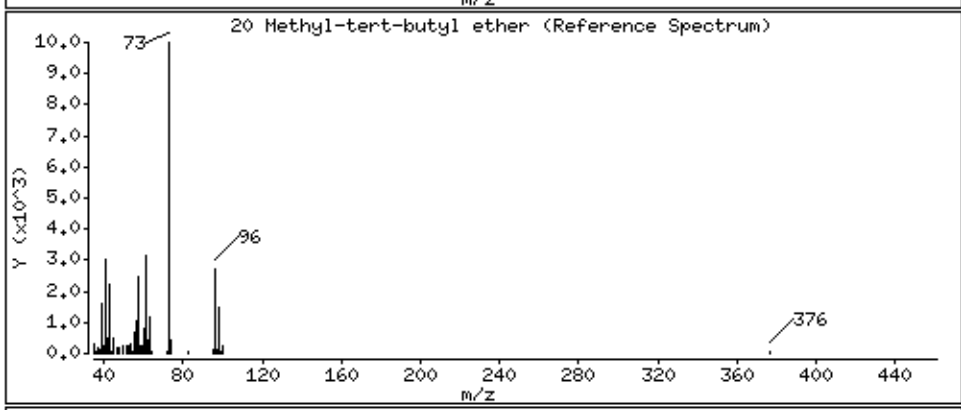
20 Methyl-tert-butyl ether

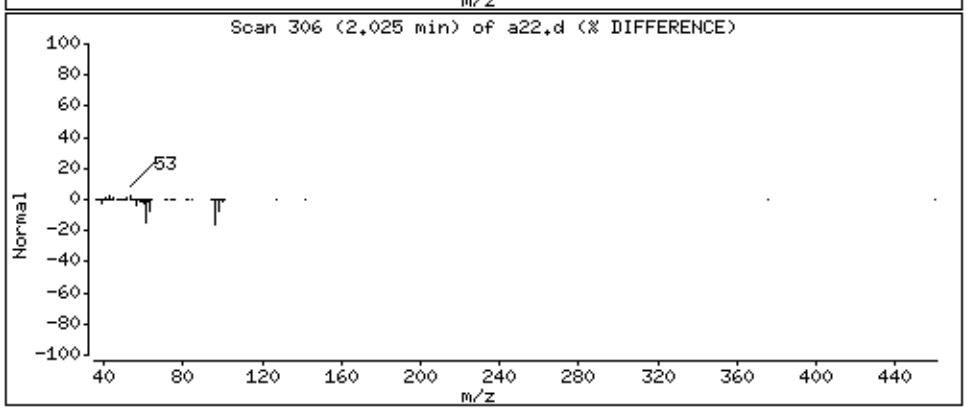
Concentration: 46.7 ppb

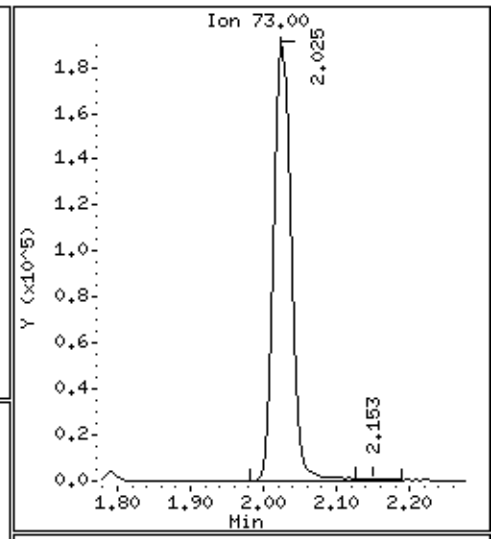
Review Code:

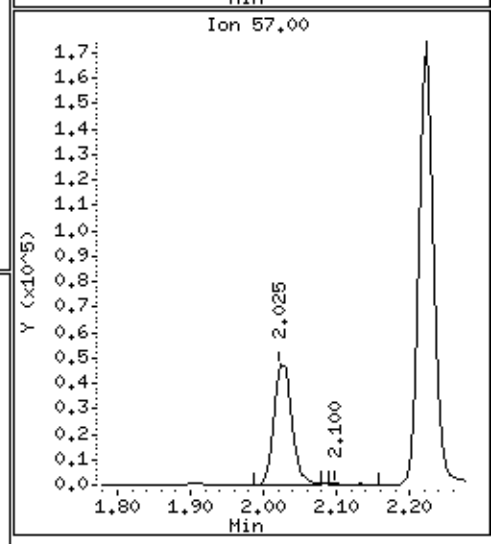












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

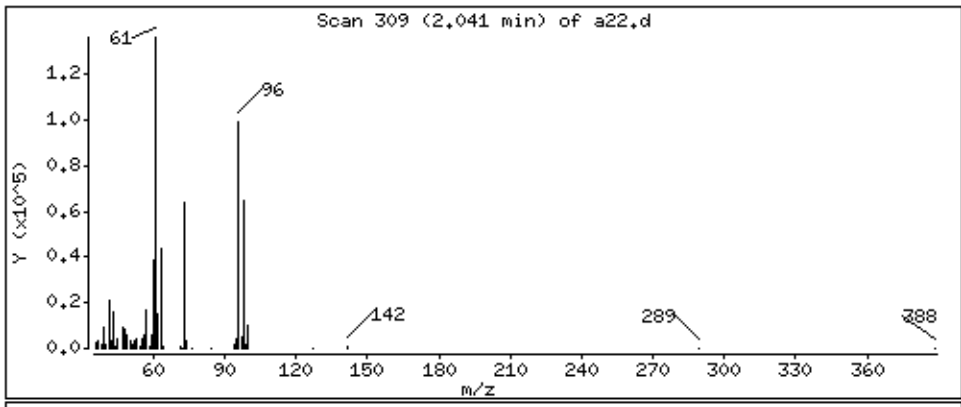
Column phase: DB-624

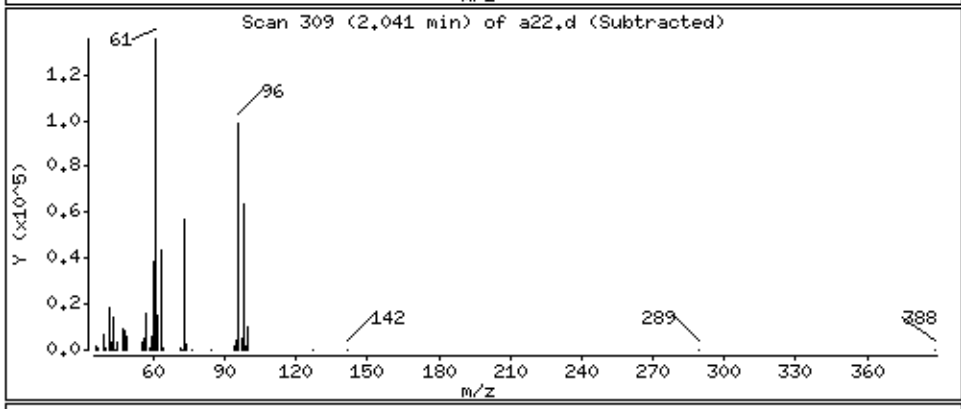
Column diameter: 0.18

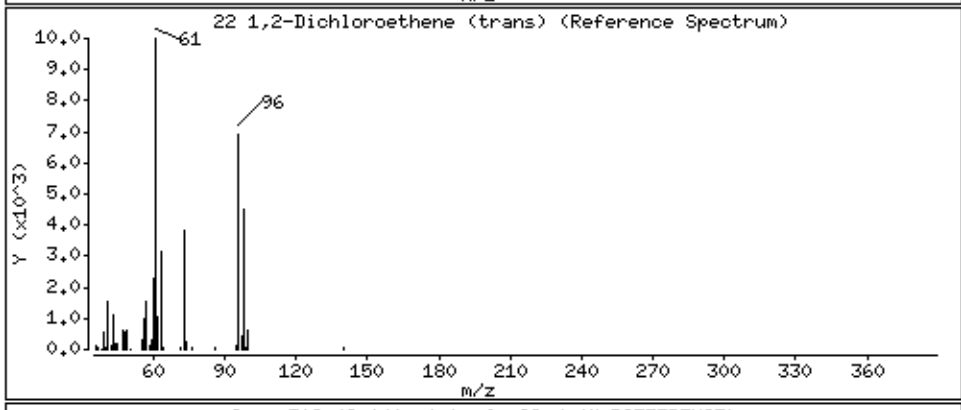
22 1,2-Dichloroethene (trans)

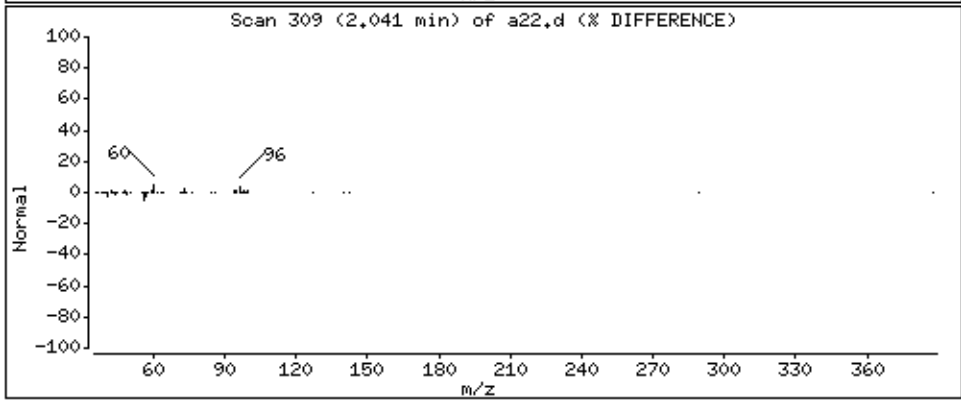
Concentration: 42.9 ppb

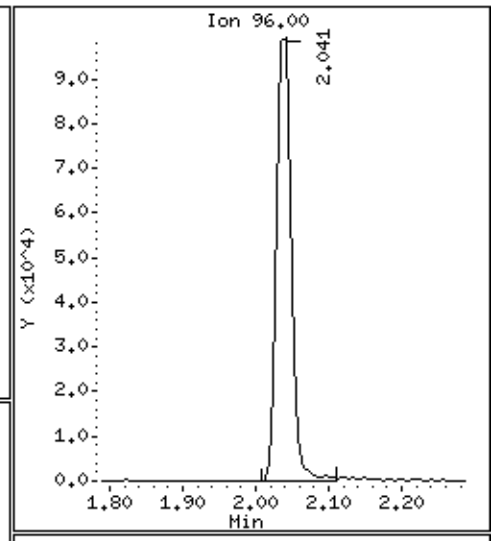
Review Code:

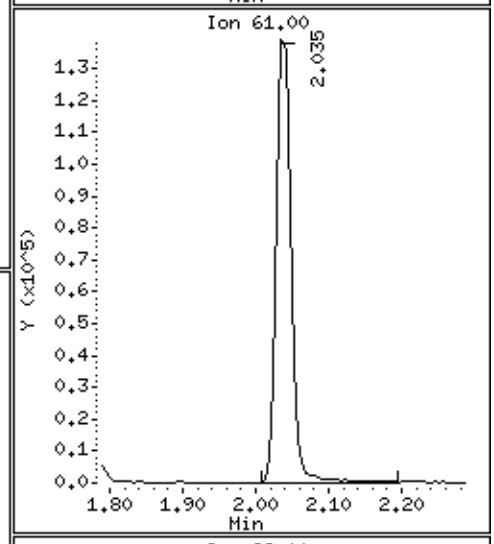


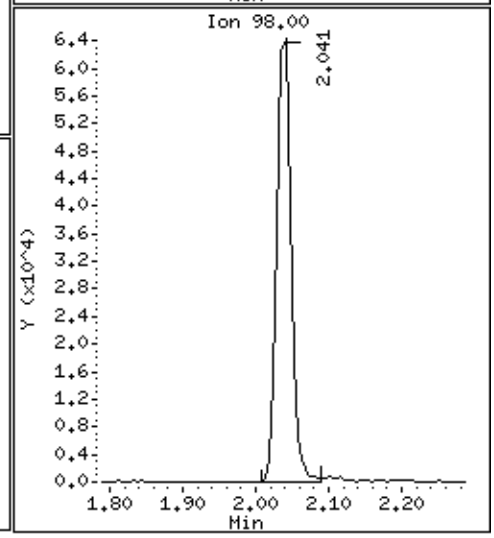












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

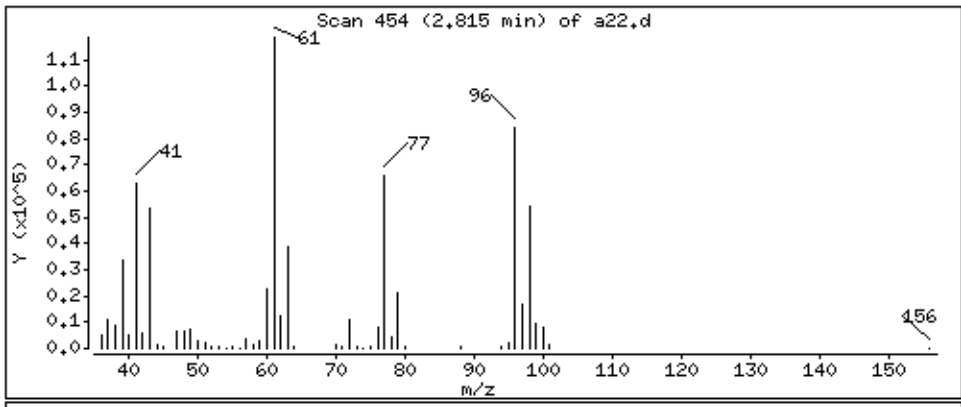
Column phase: DB-624

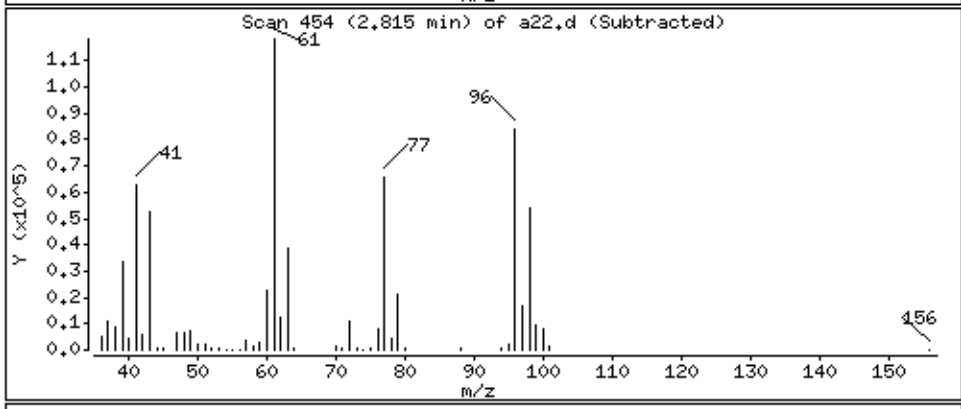
Column diameter: 0.18

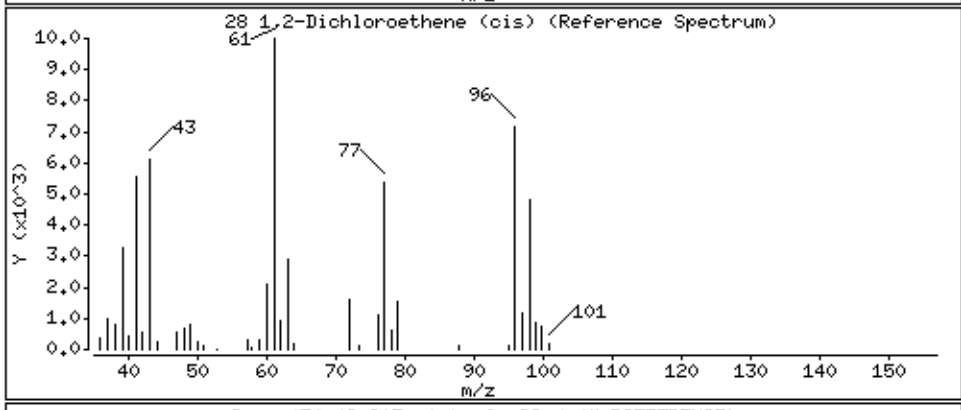
28 1,2-Dichloroethene (cis)

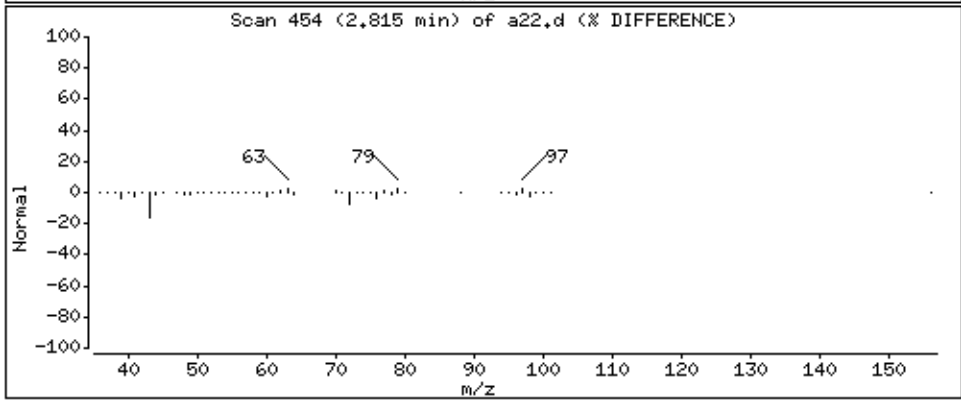
Concentration: 49.0 ppb

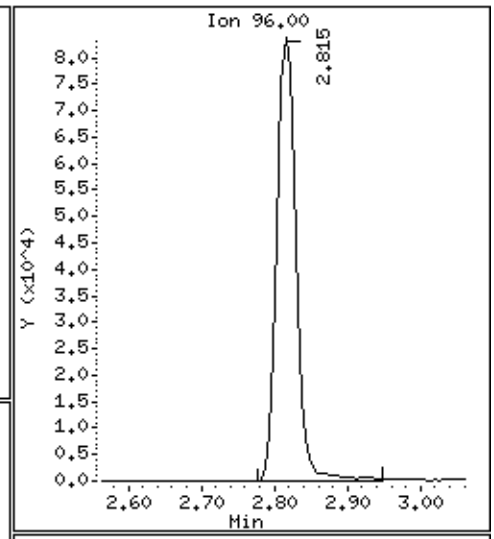
Review Code:

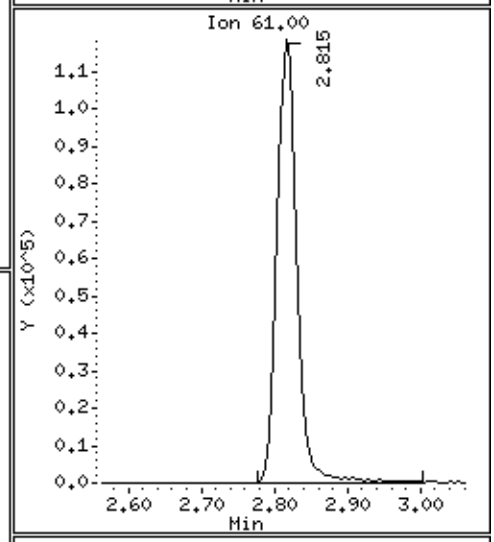


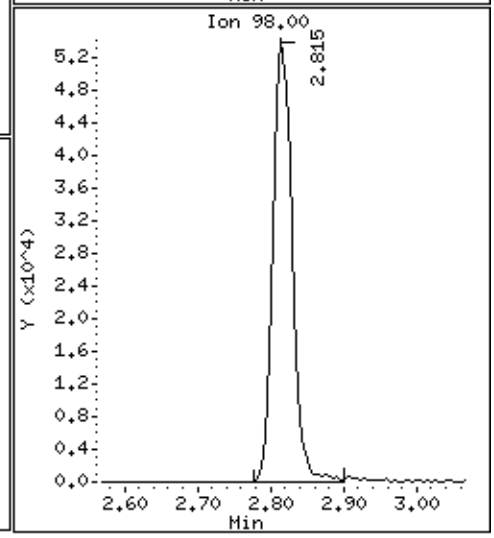












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

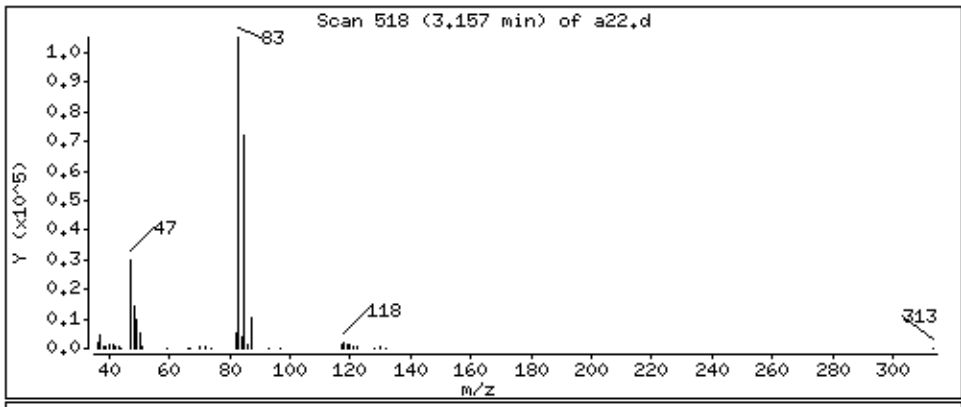
Column phase: DB-624

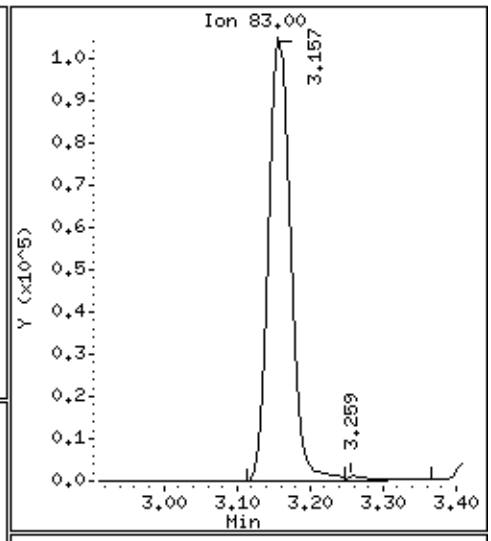
Column diameter: 0.18

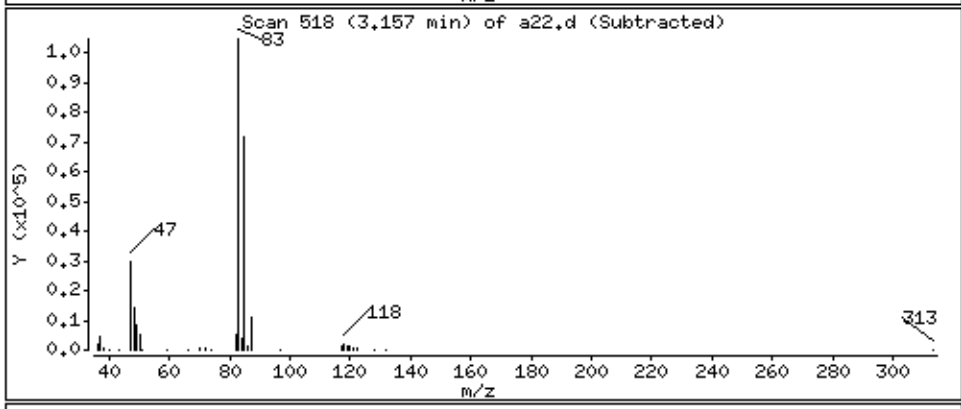
34 Chloroform

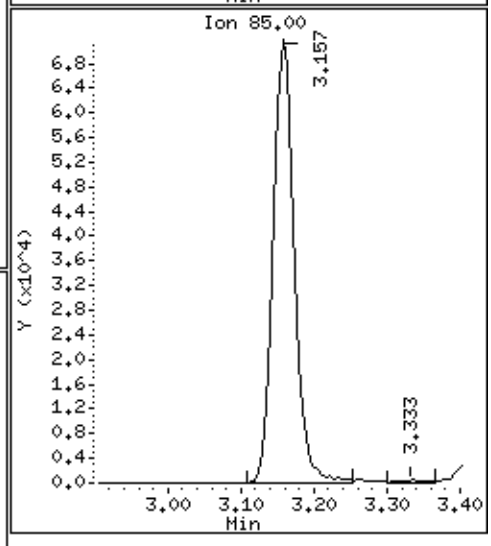
Concentration: 44.3 ppb

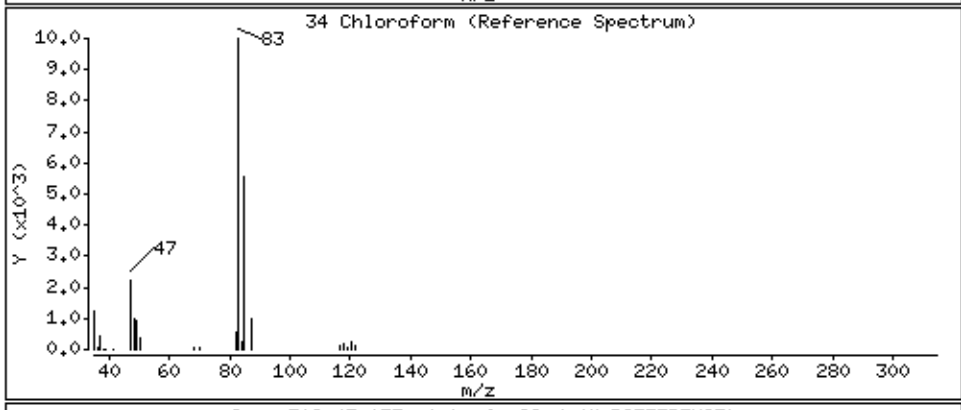
Review Code:

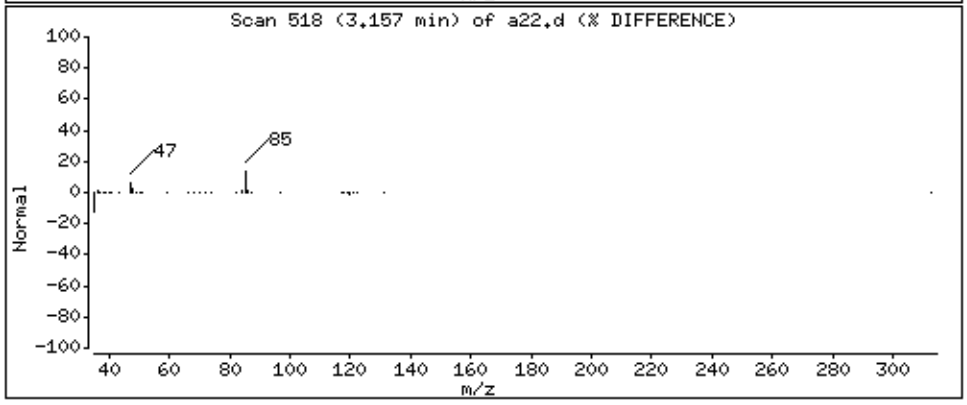












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

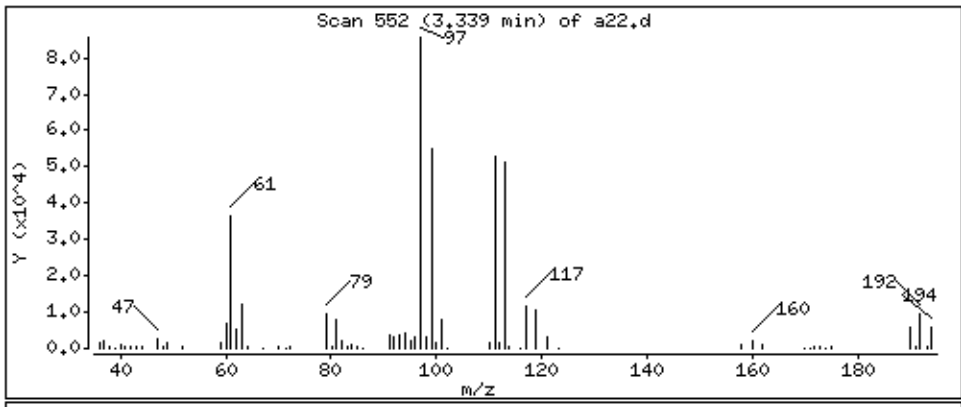
Column phase: DB-624

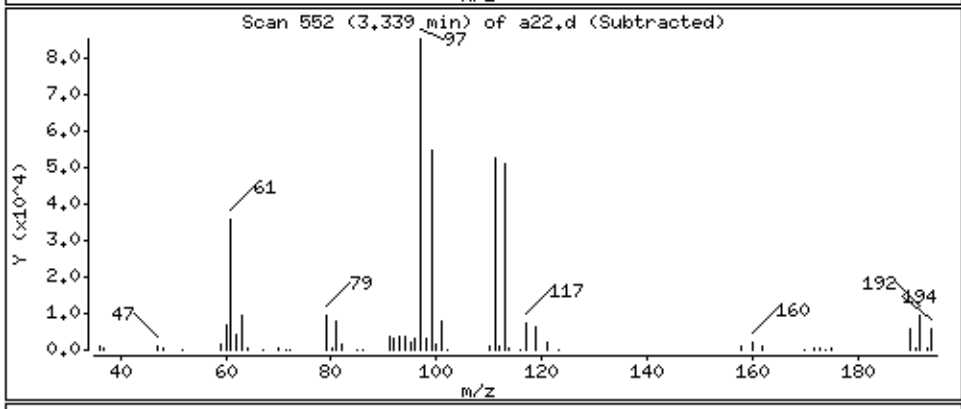
Column diameter: 0.18

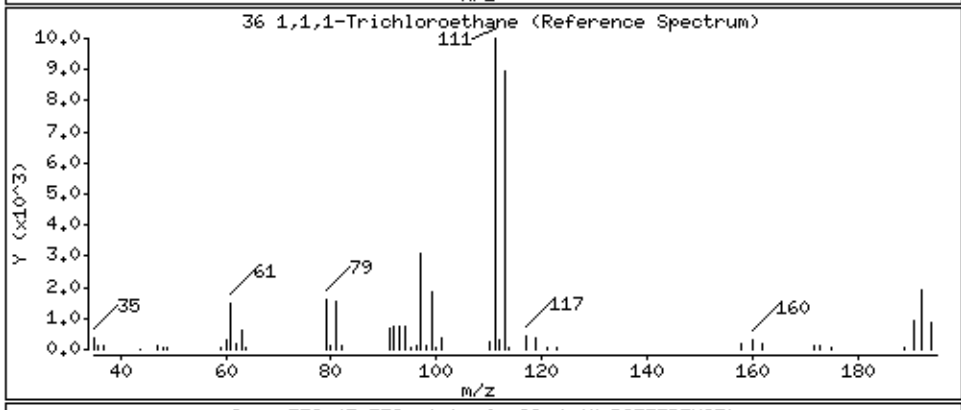
36 1,1,1-Trichloroethane

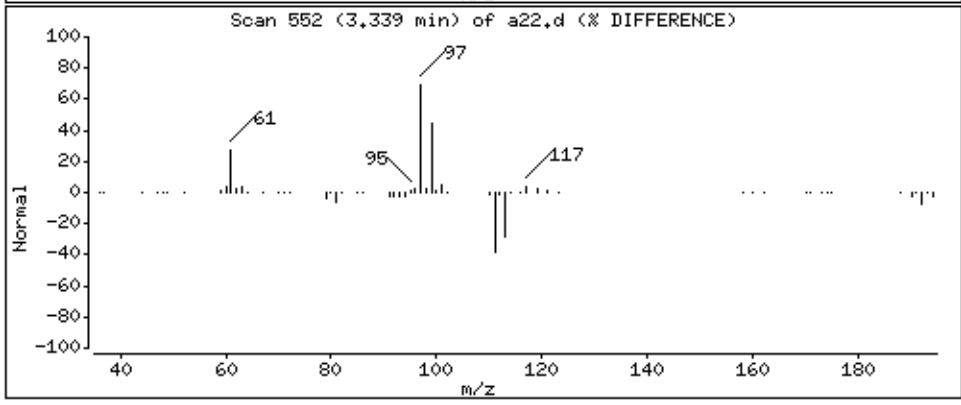
Concentration: 46.9 ppb

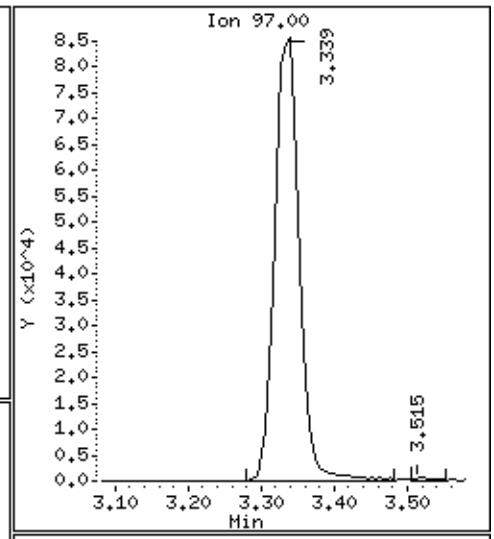
Review Code:

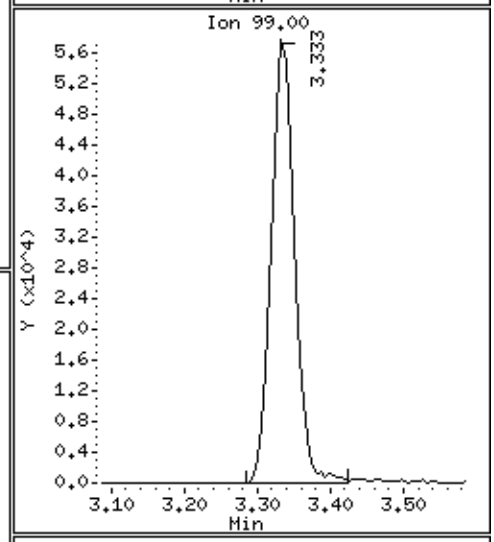


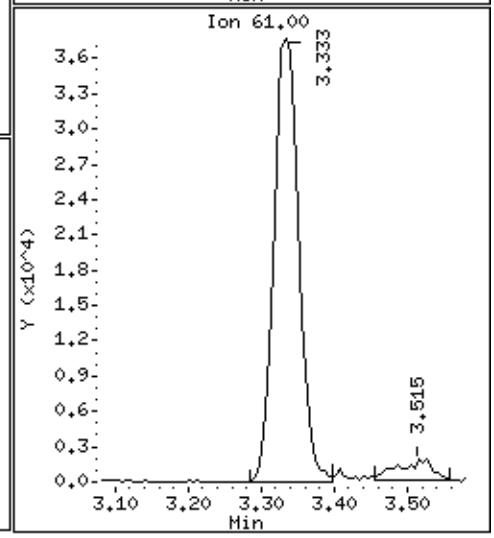












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

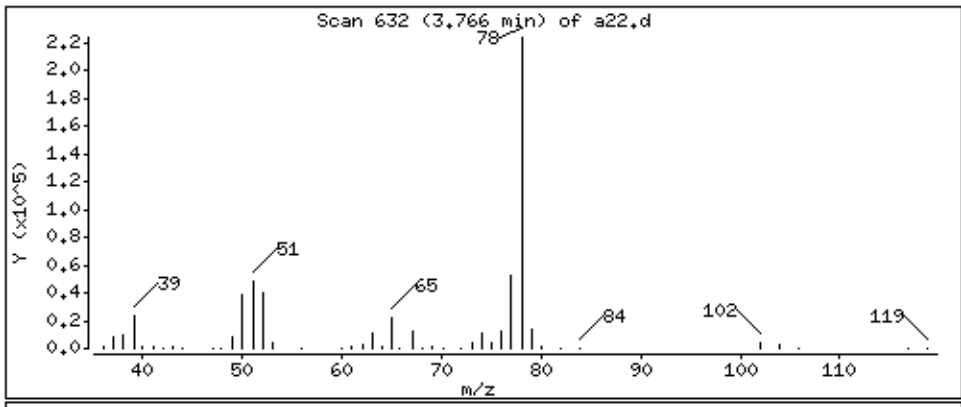
Column phase: DB-624

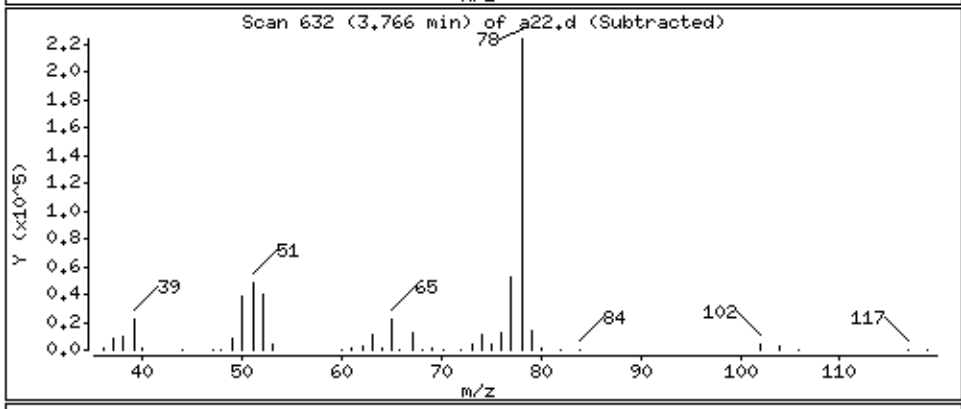
Column diameter: 0.18

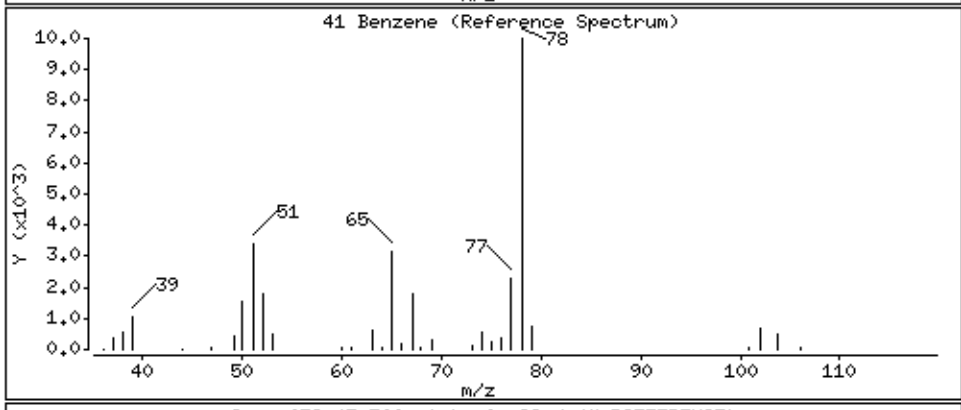
41 Benzene

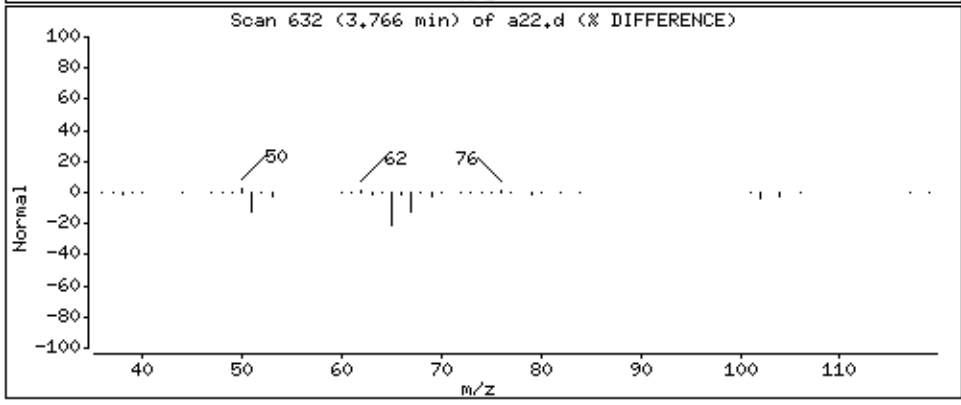
Concentration: 44.6 ppb

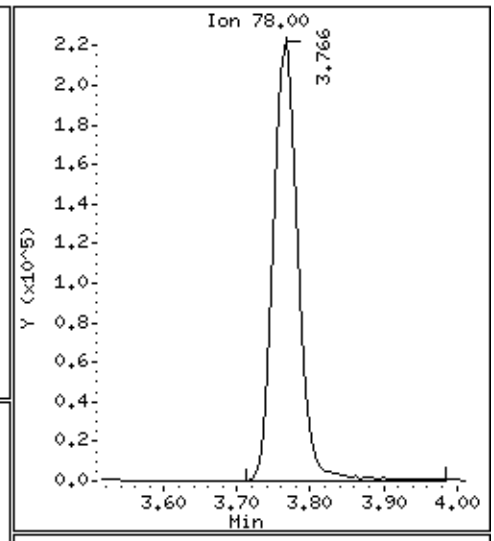
Review Code:

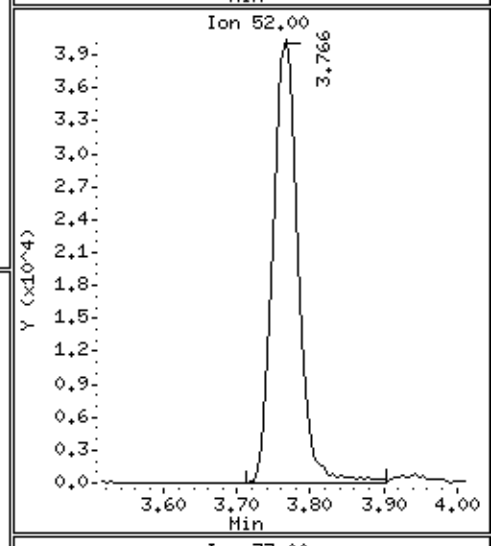


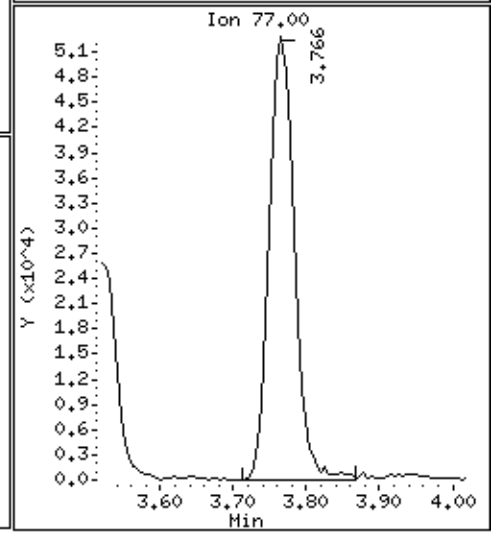












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

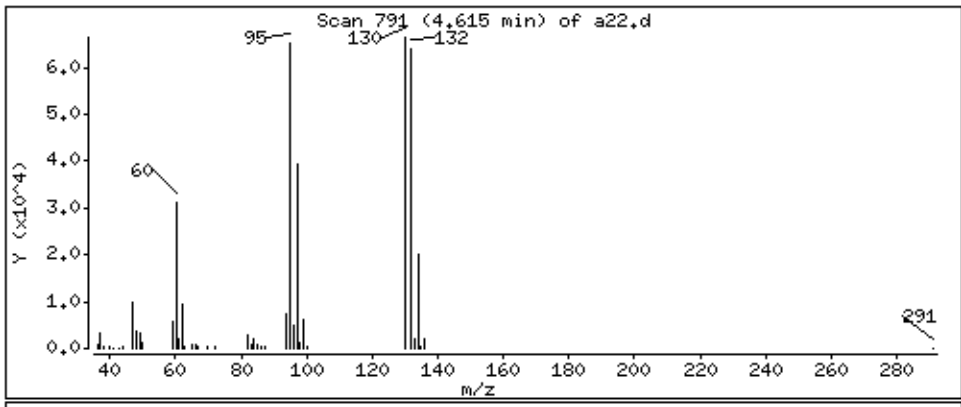
Column phase: DB-624

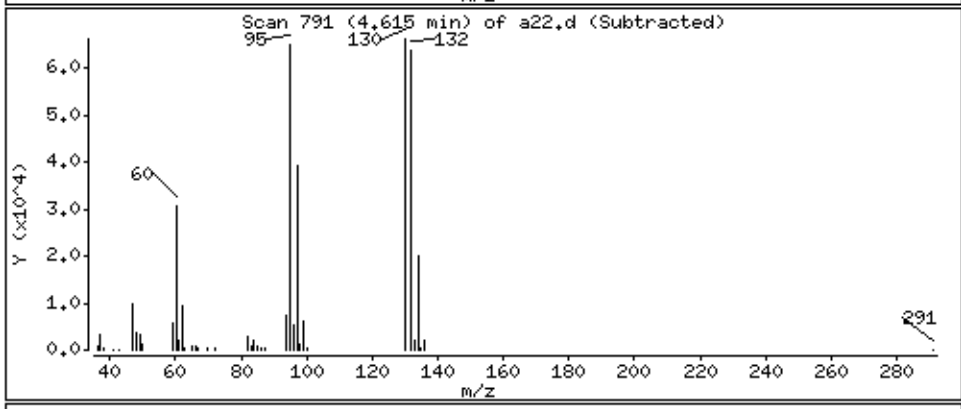
Column diameter: 0.18

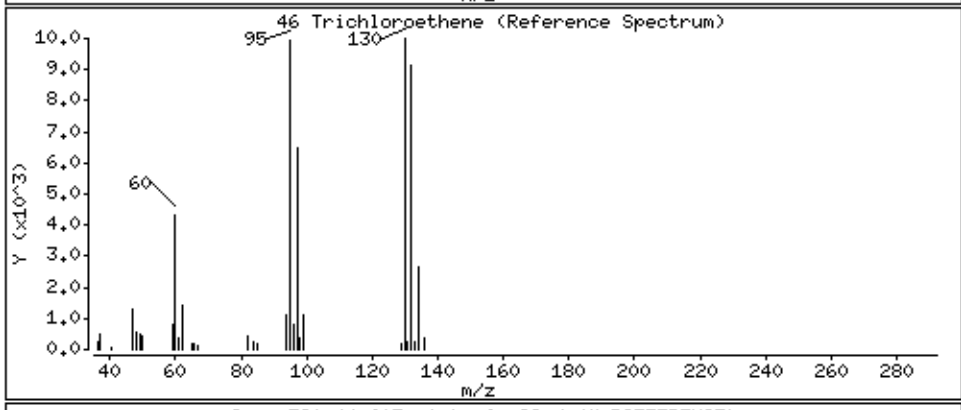
46 Trichloroethene

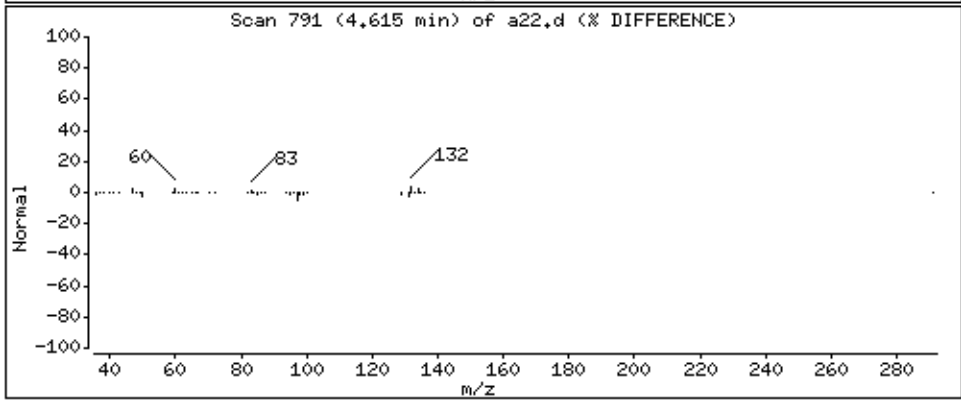
Concentration: 45.2 ppb

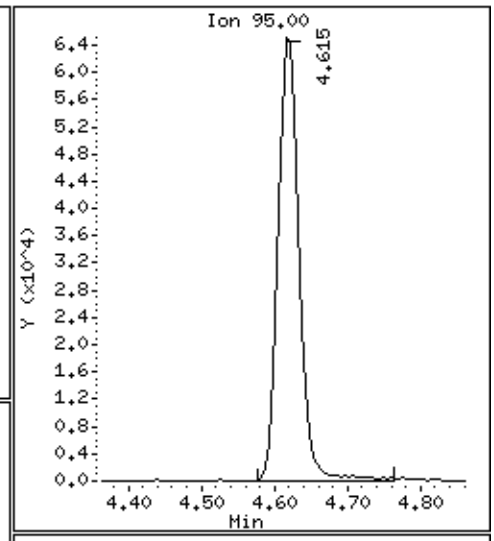
Review Code:

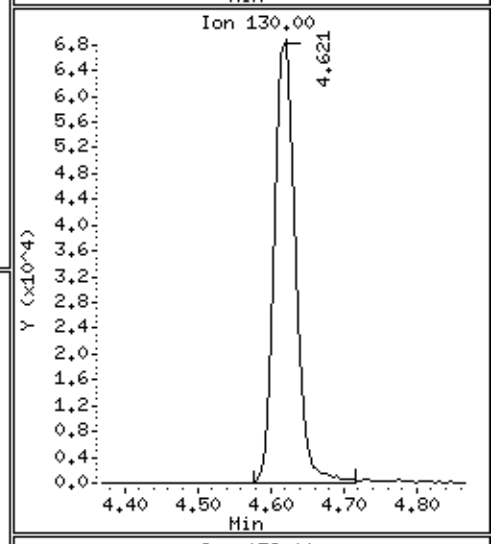


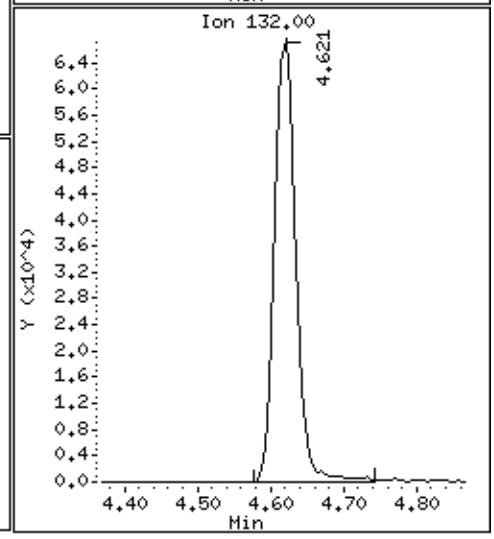












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

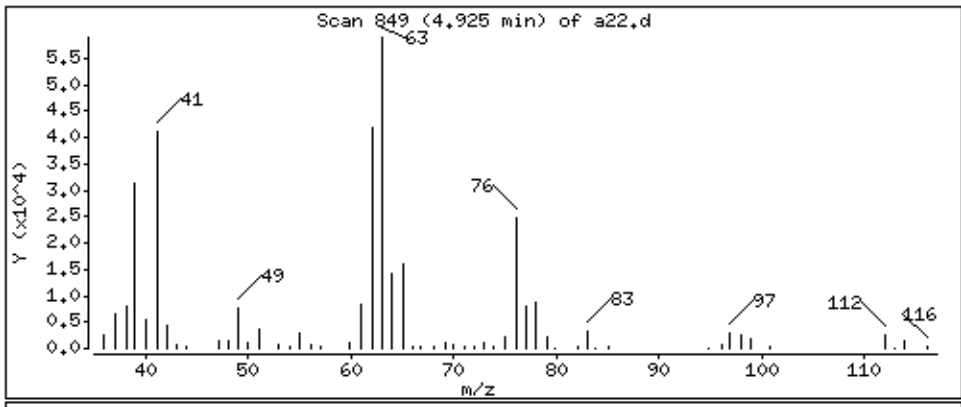
Column phase: DB-624

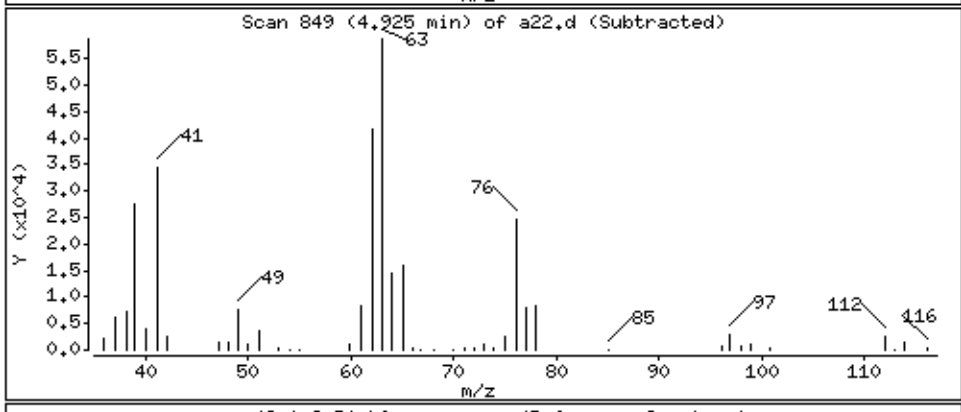
Column diameter: 0.18

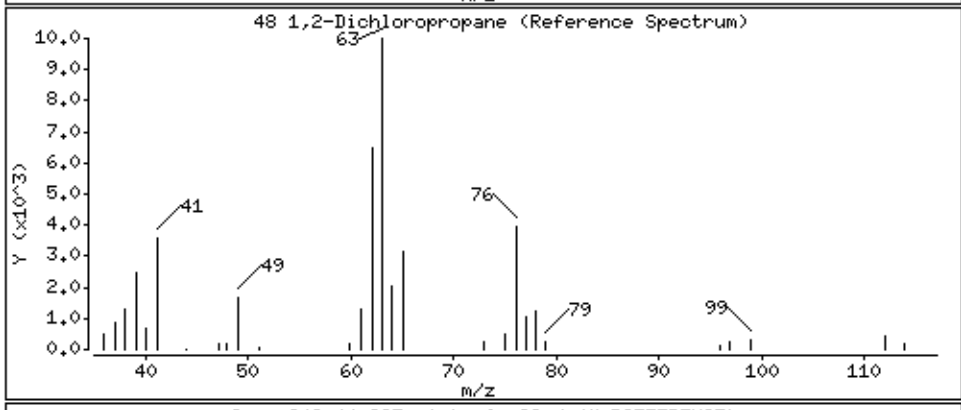
48 1,2-Dichloropropane

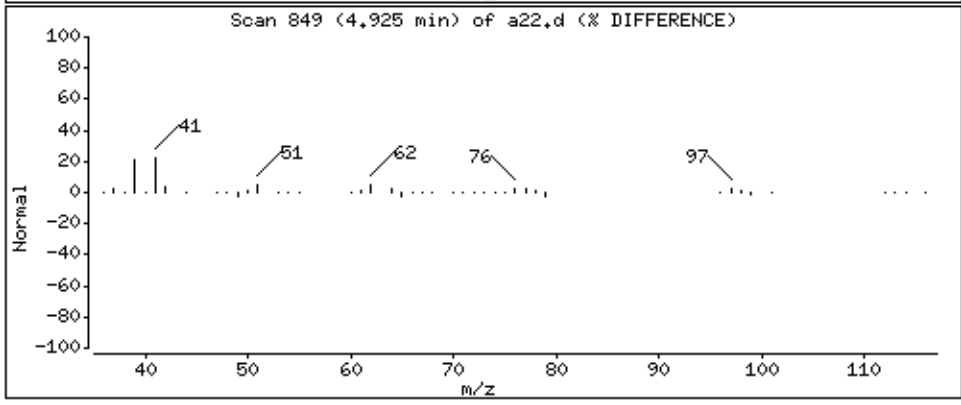
Concentration: 44.9 ppb

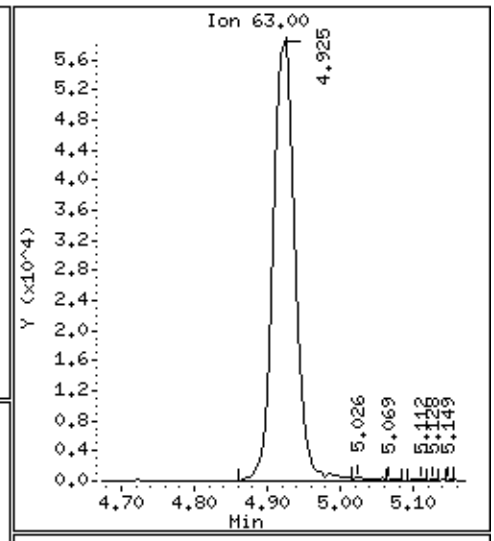
Review Code:

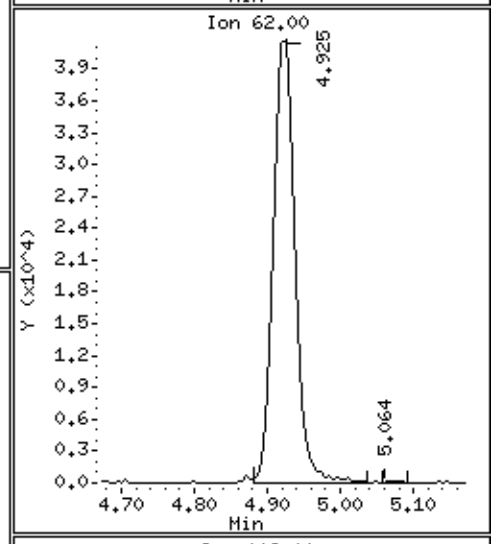


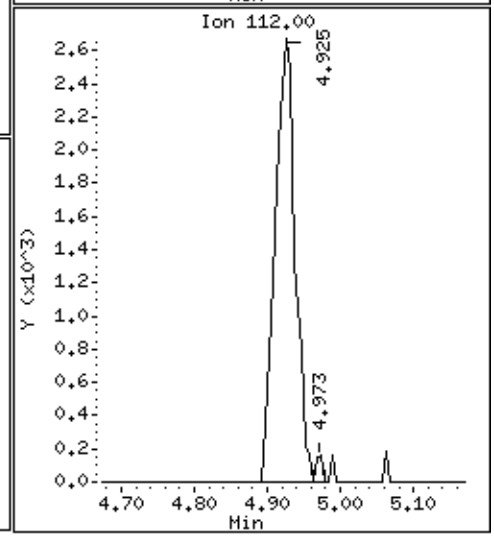












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

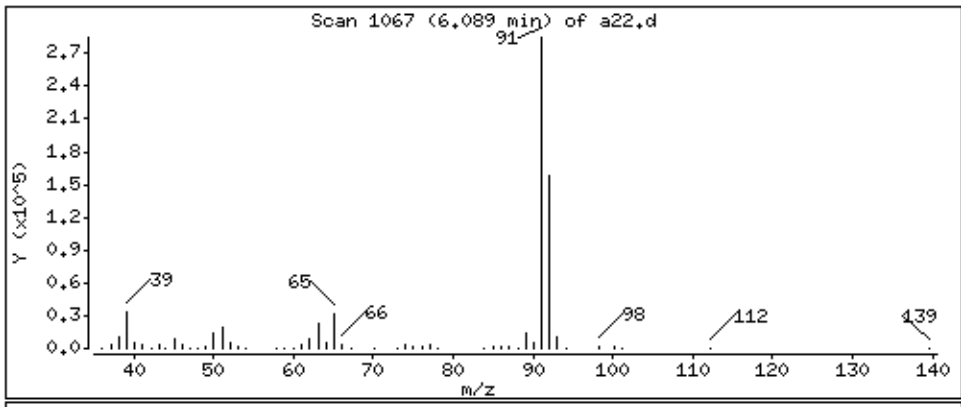
Column phase: DB-624

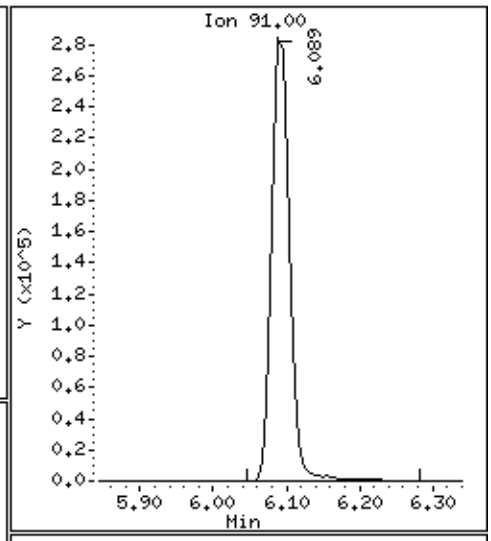
Column diameter: 0.18

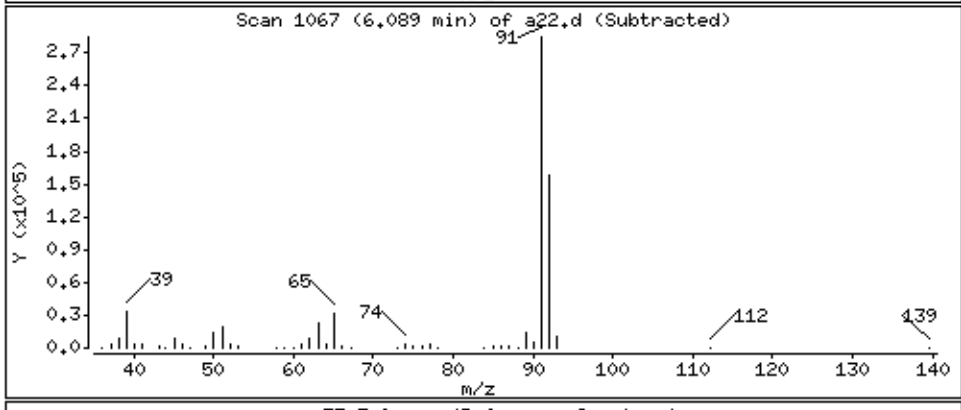
57 Toluene

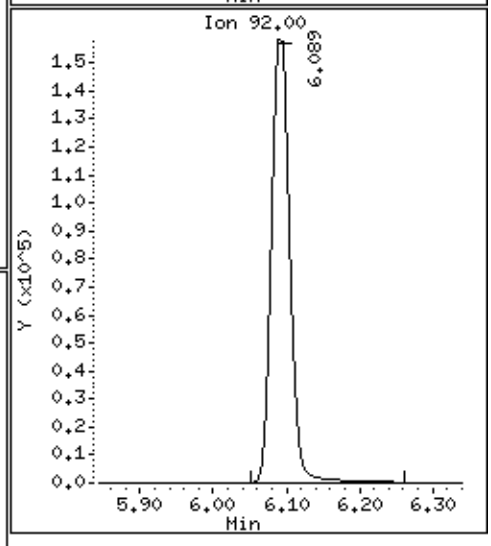
Concentration: 41.0 ppb

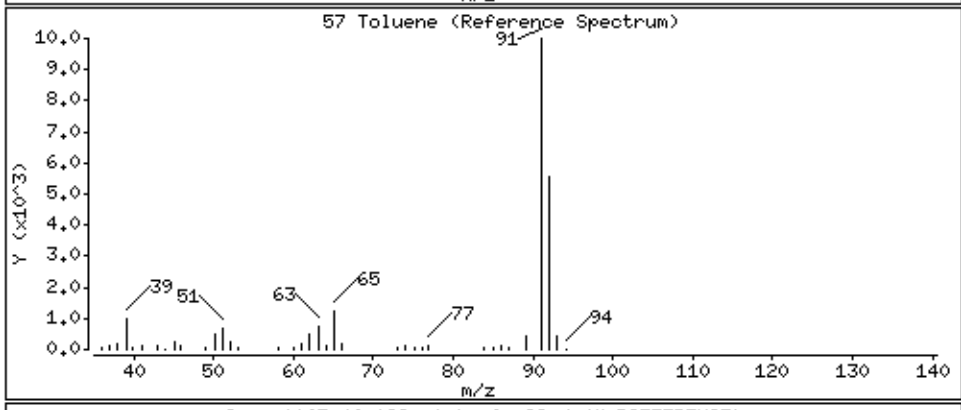
Review Code:

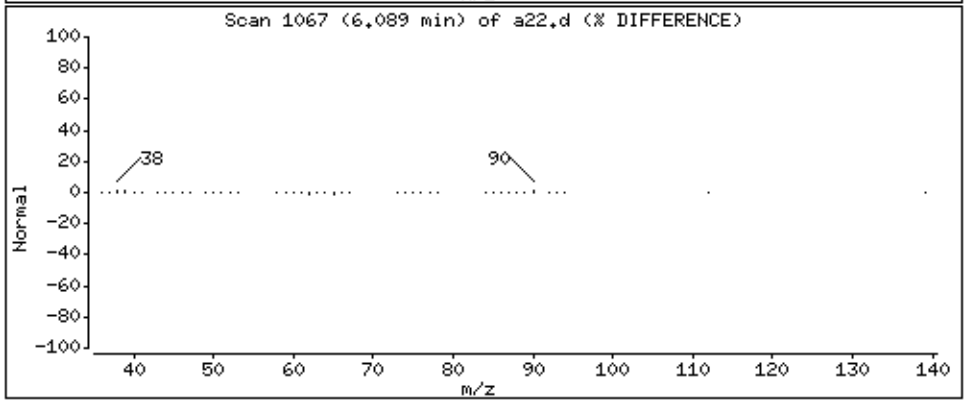












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

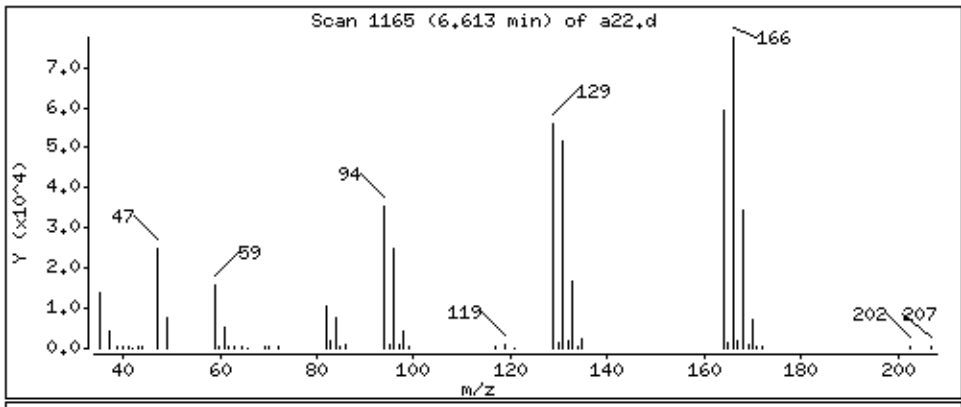
Column phase: DB-624

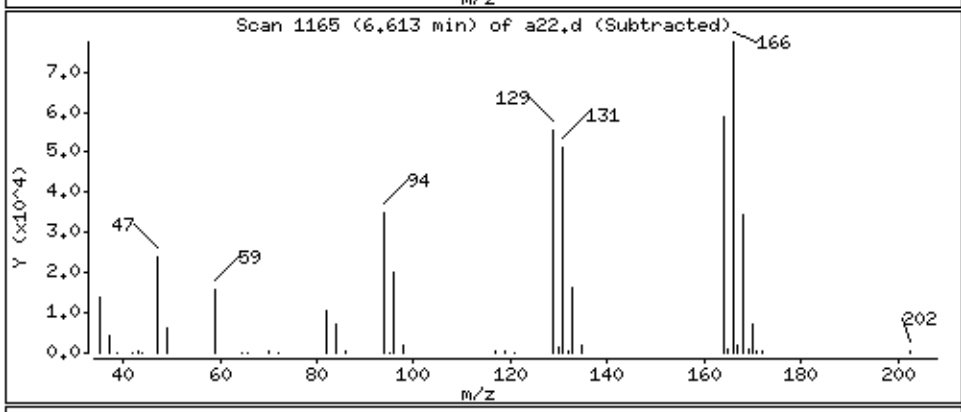
Column diameter: 0.18

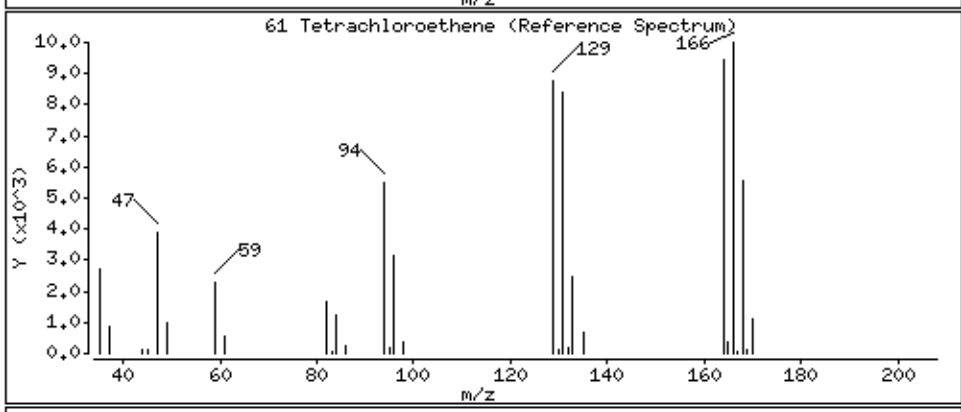
61 Tetrachloroethene

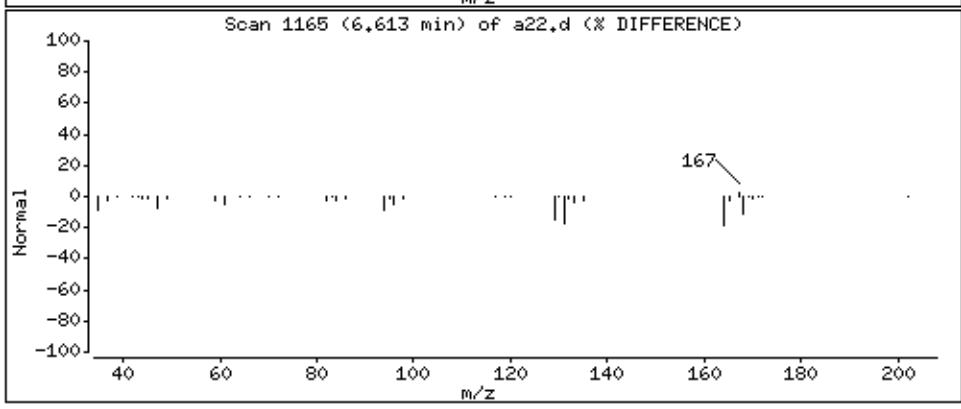
Concentration: 48.4 ppb

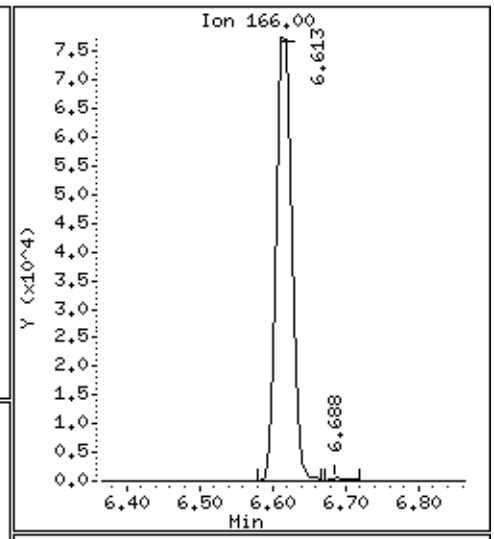
Review Code:

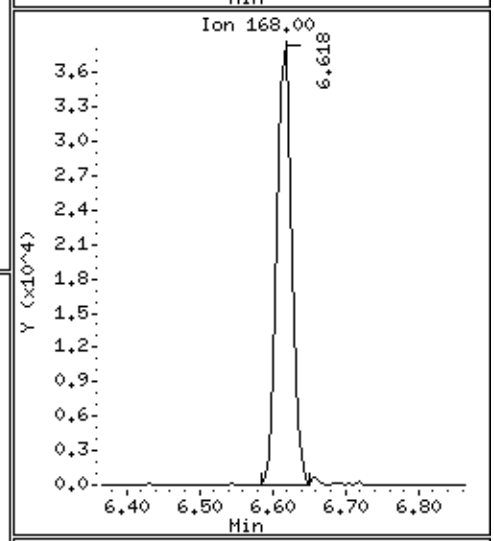


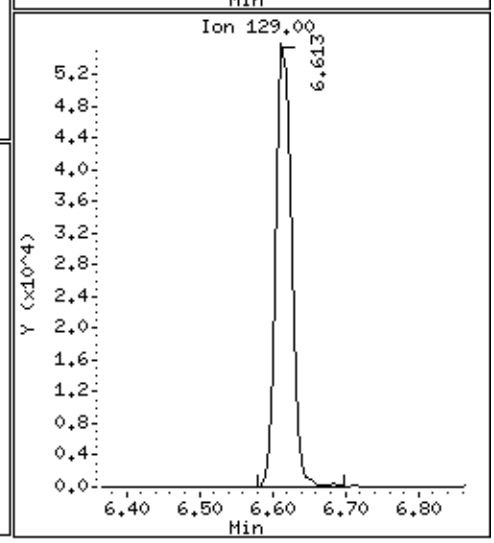












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

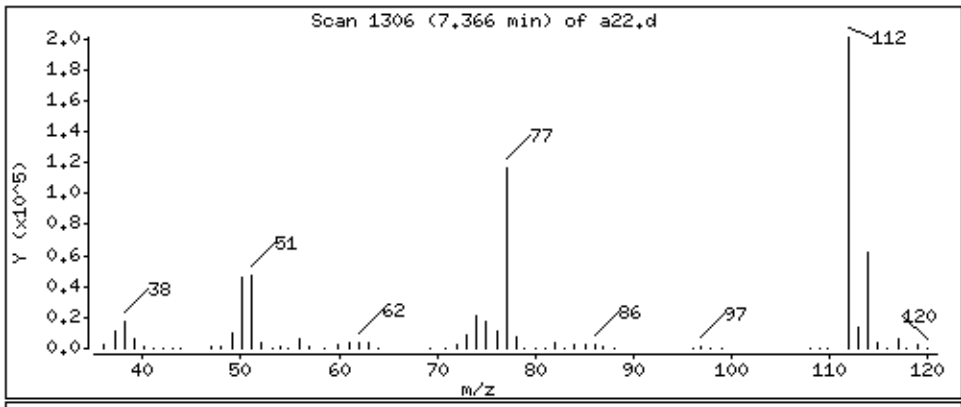
Column phase: DB-624

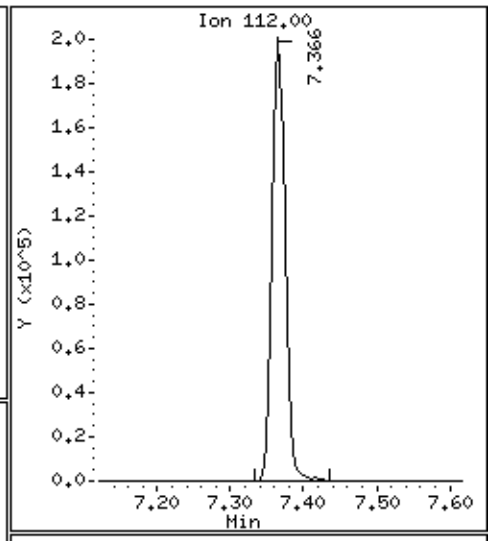
Column diameter: 0.18

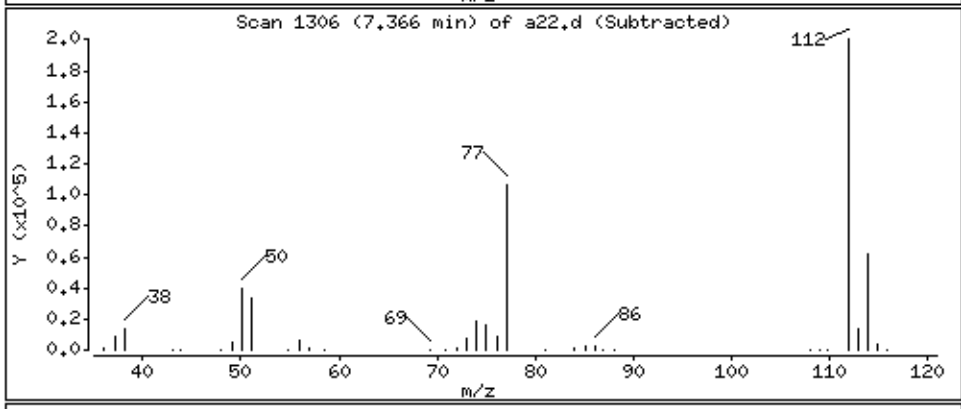
67 Chlorobenzene

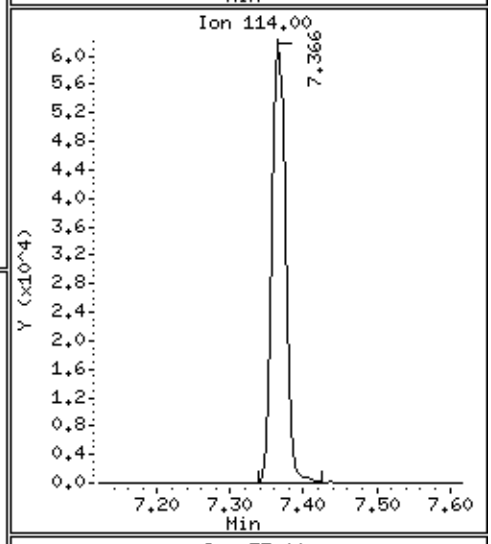
Concentration: 44.7 ppb

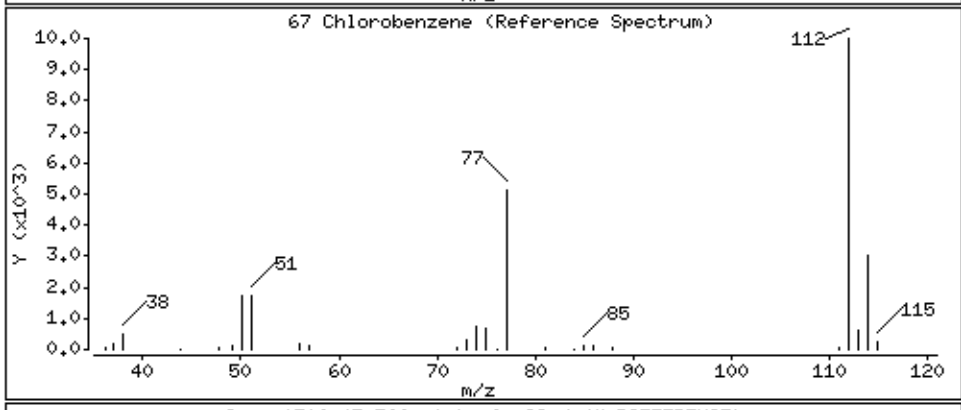
Review Code:

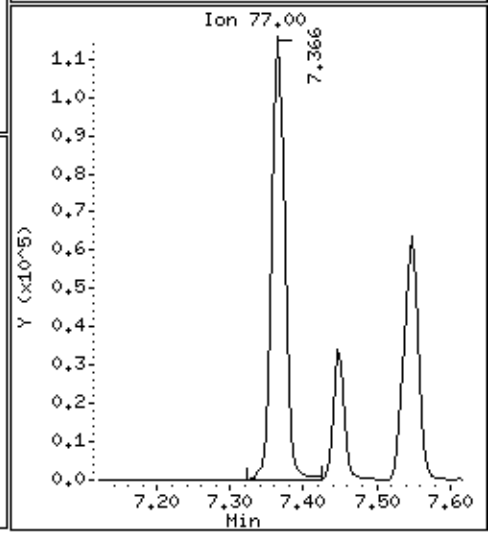


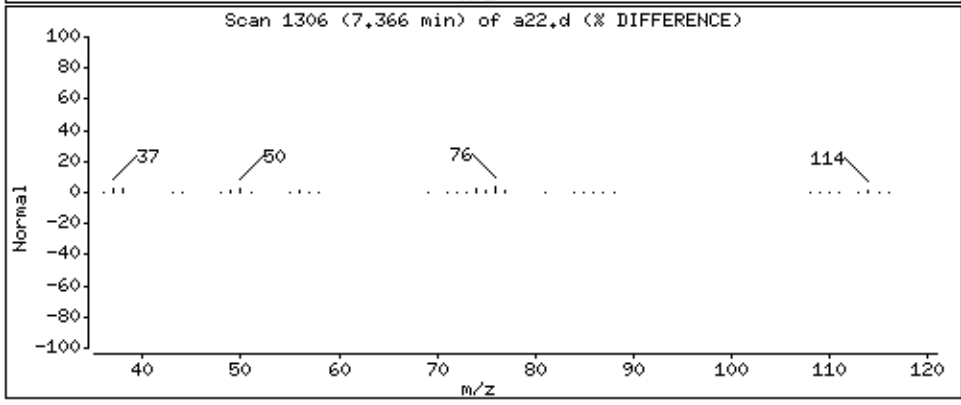












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

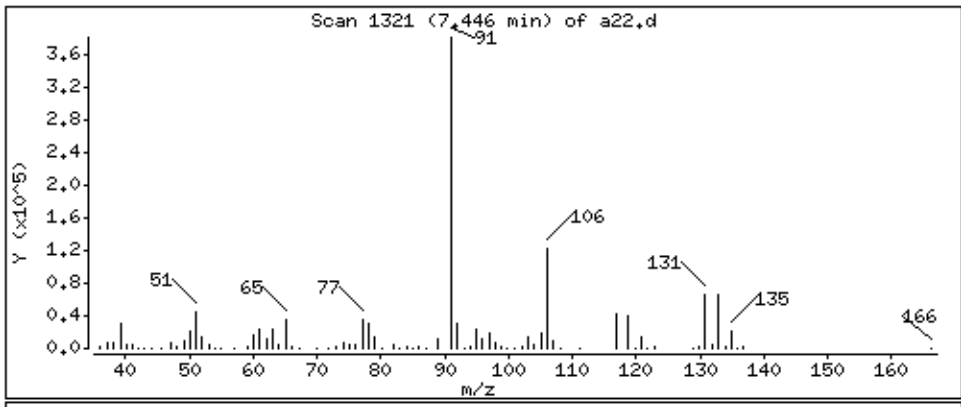
Column phase: DB-624

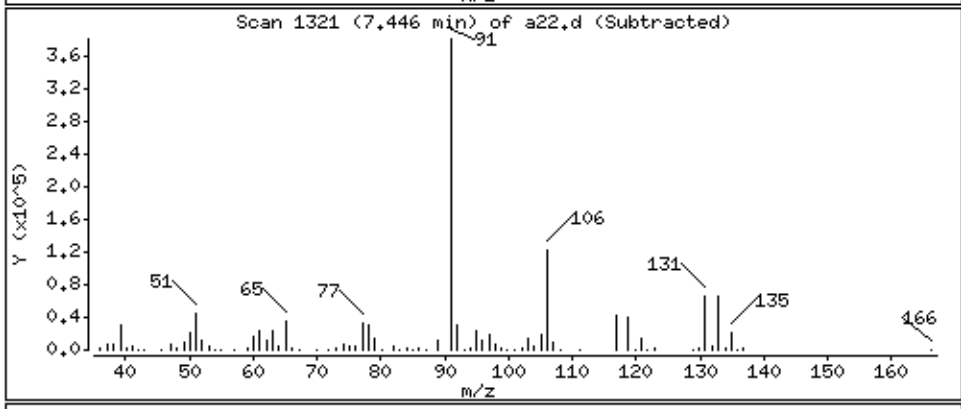
Column diameter: 0.18

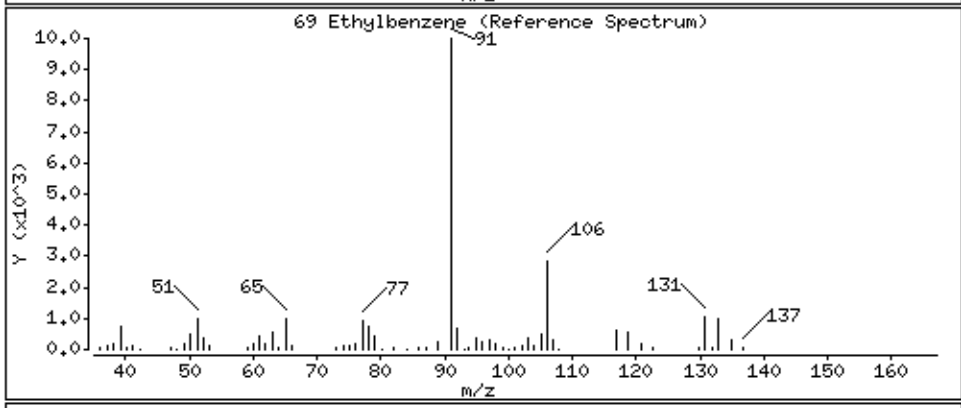
69 Ethylbenzene

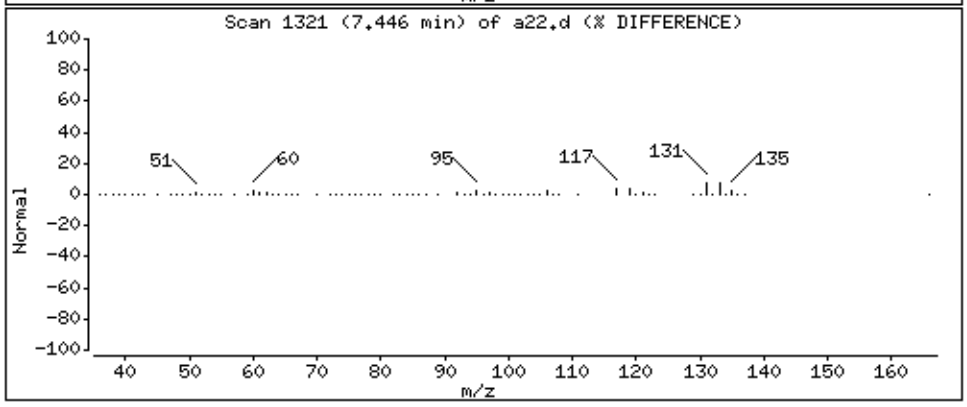
Concentration: 46.4 ppb

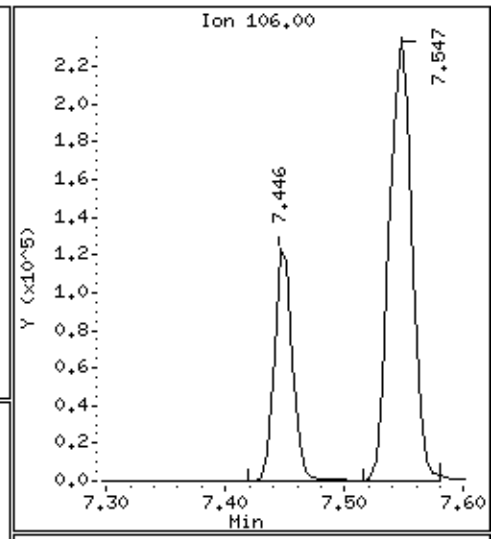
Review Code:

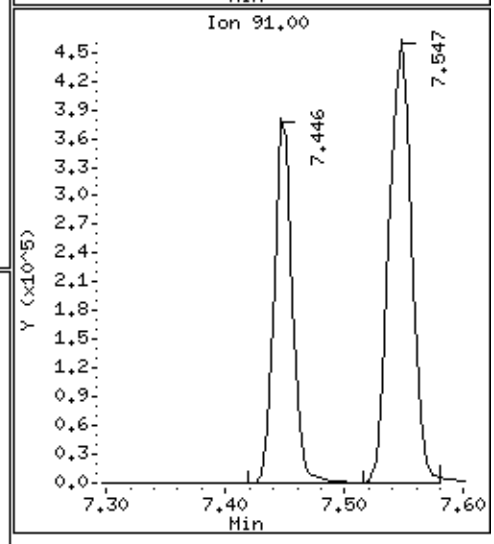












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

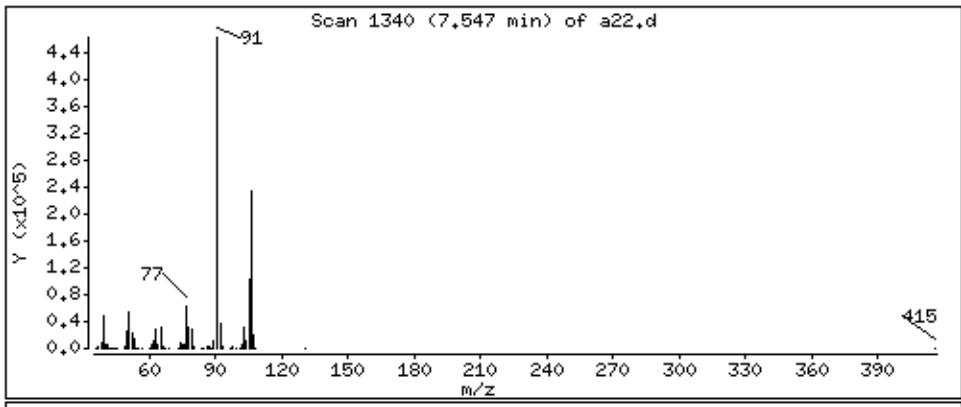
Column phase: DB-624

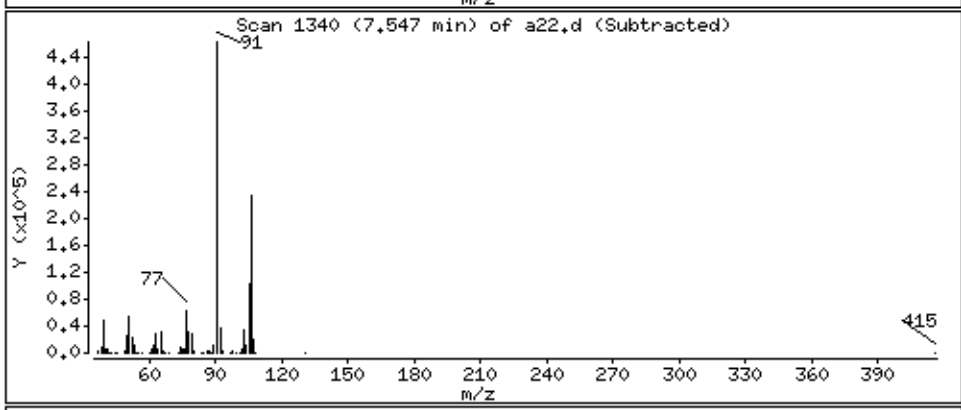
Column diameter: 0.18

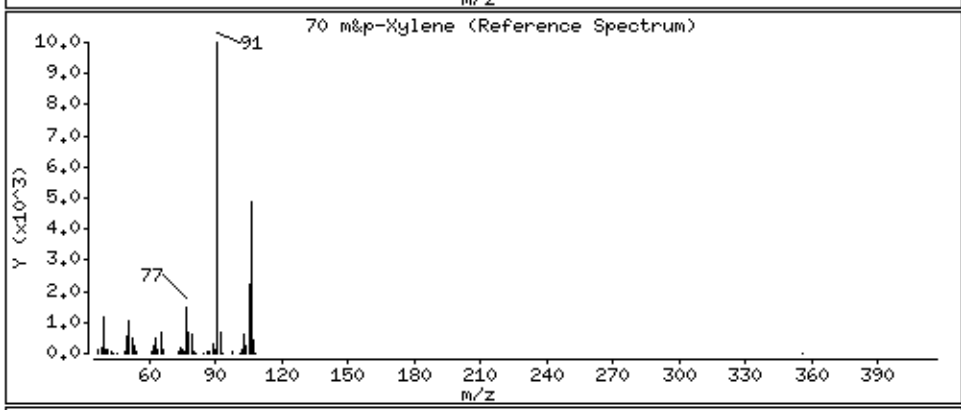
70 m&p-Xylene

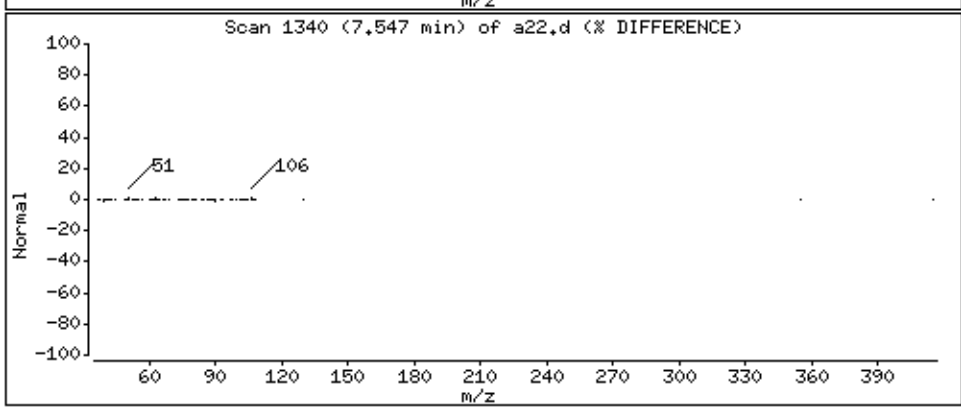
Concentration: 90.2 ppb

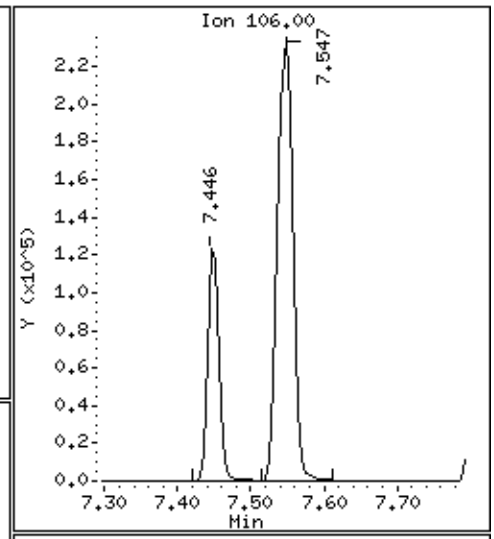
Review Code:

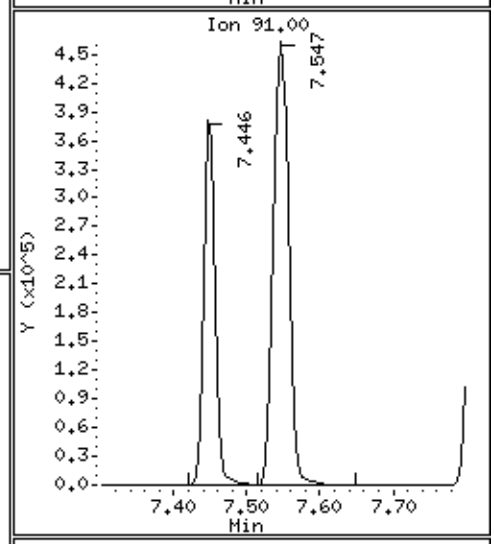


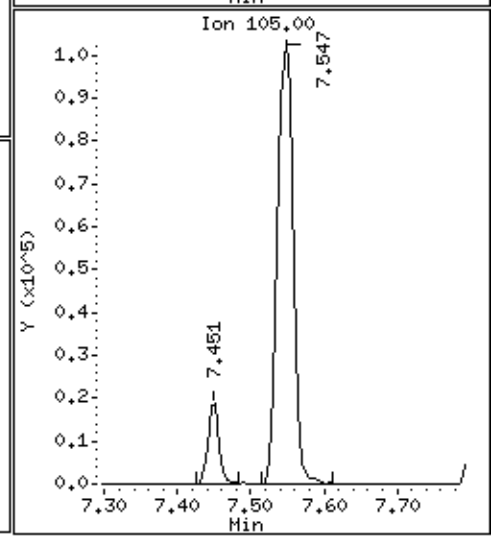












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

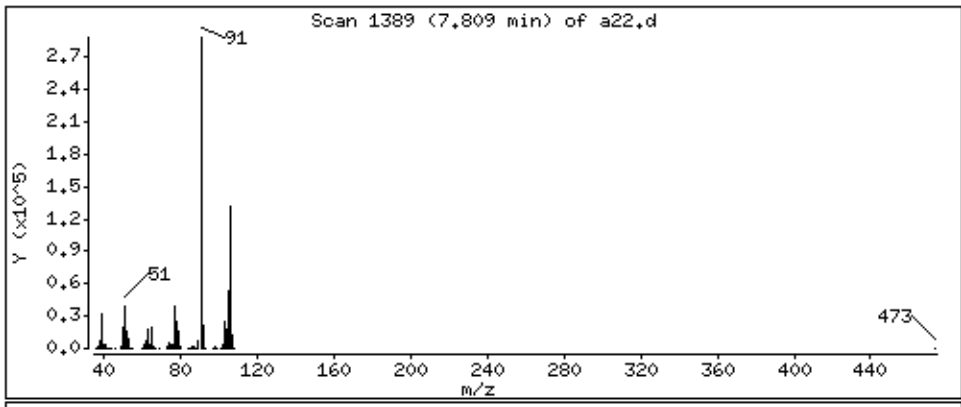
Column phase: DB-624

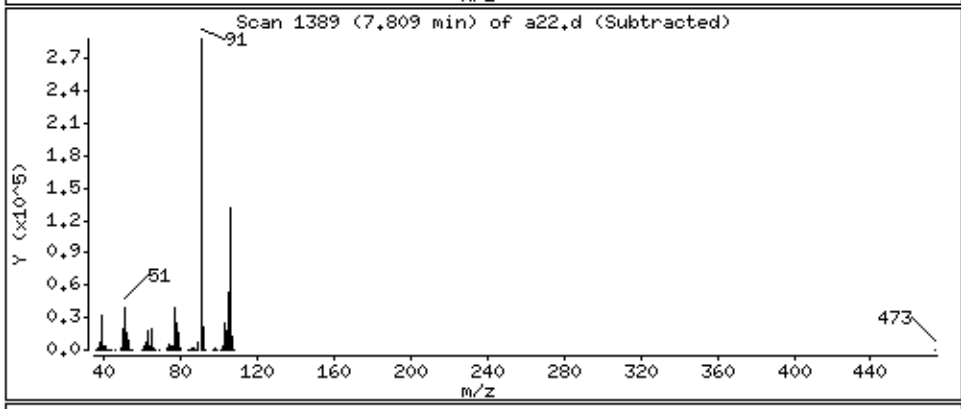
Column diameter: 0.18

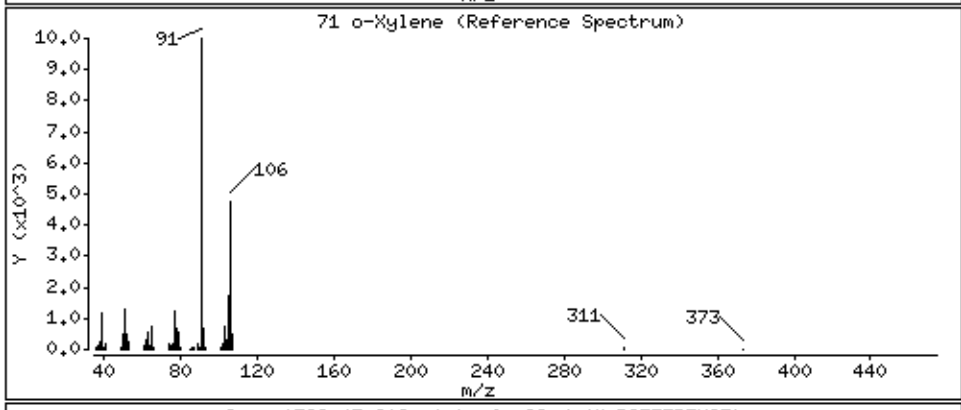
71 o-Xylene

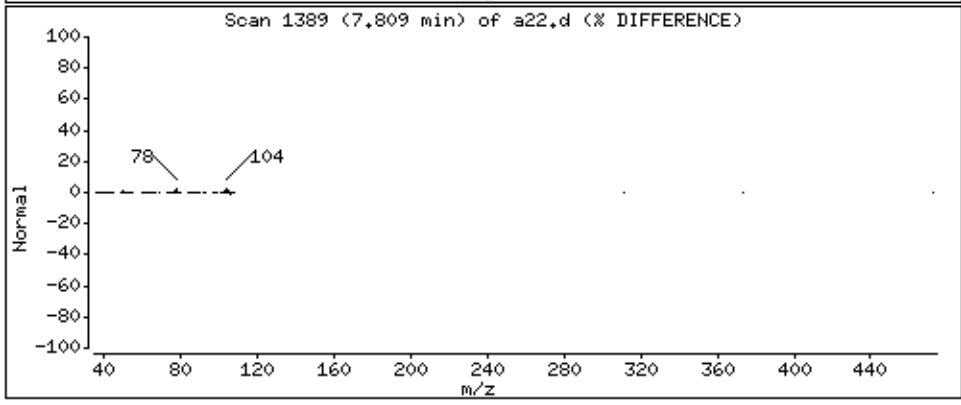
Concentration: 45.3 ppb

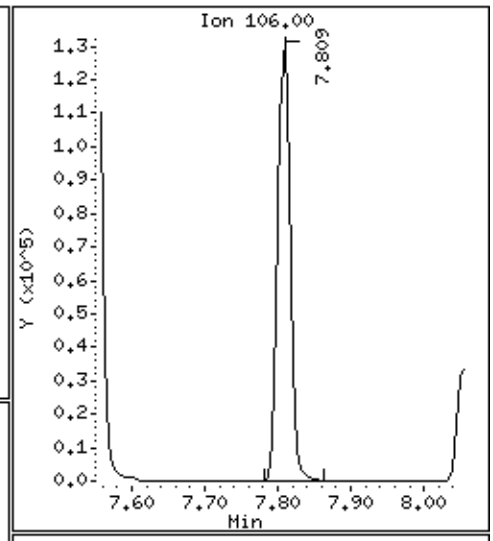
Review Code:

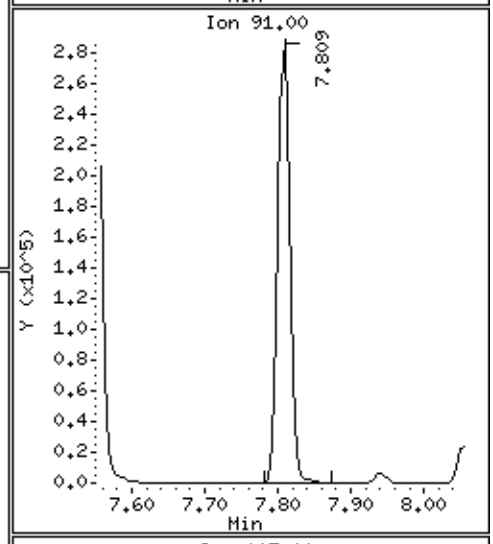


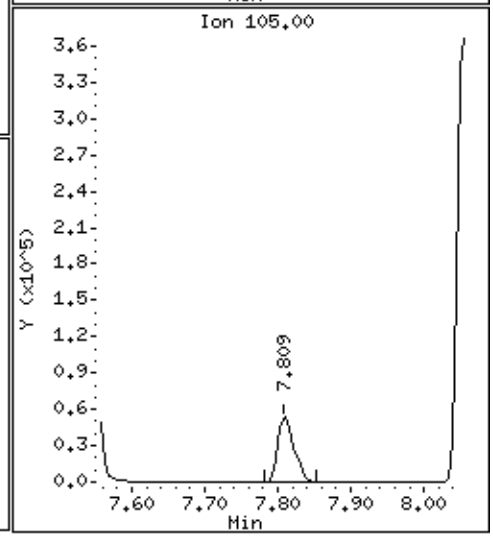












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

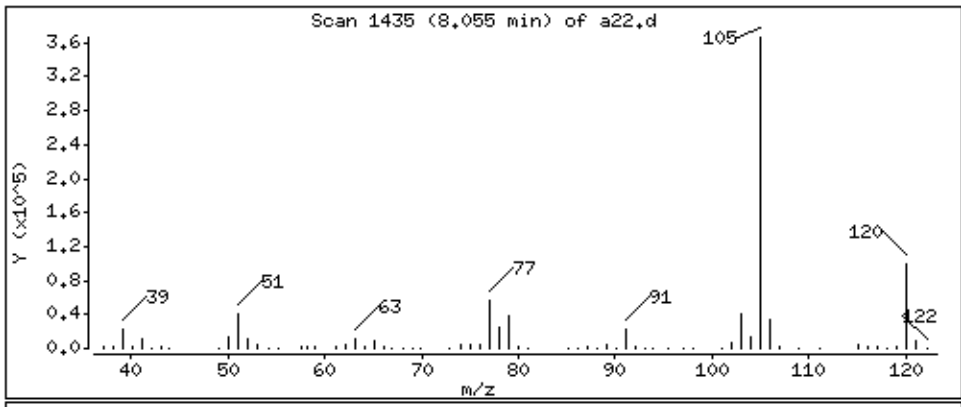
Column phase: DB-624

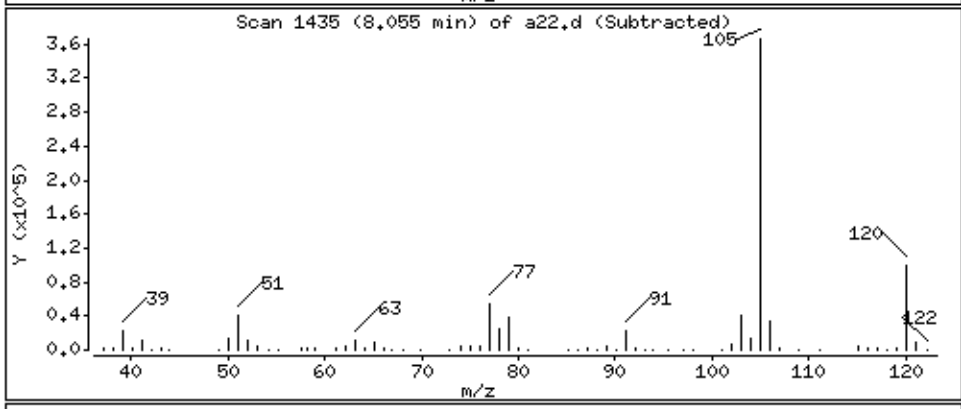
Column diameter: 0.18

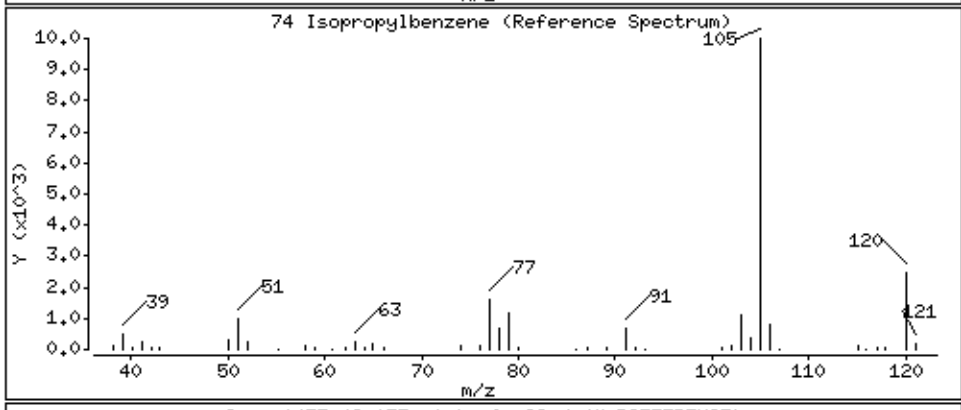
74 Isopropylbenzene

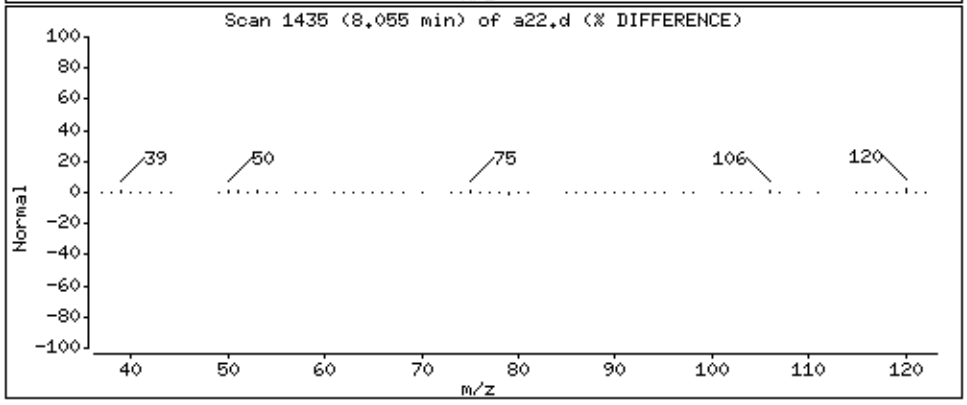
Concentration: 47.3 ppb

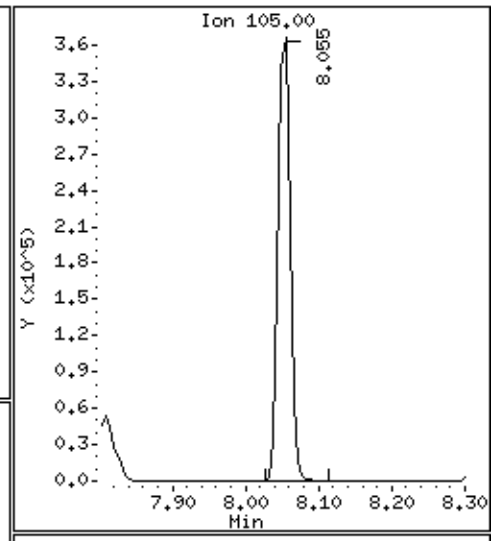
Review Code:

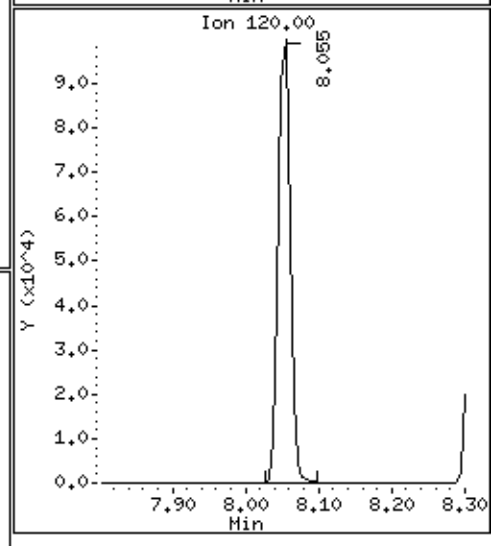












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

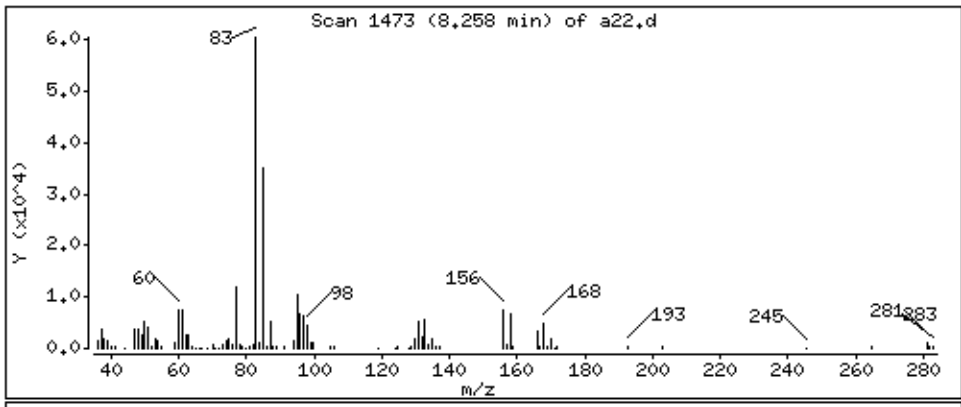
Column phase: DB-624

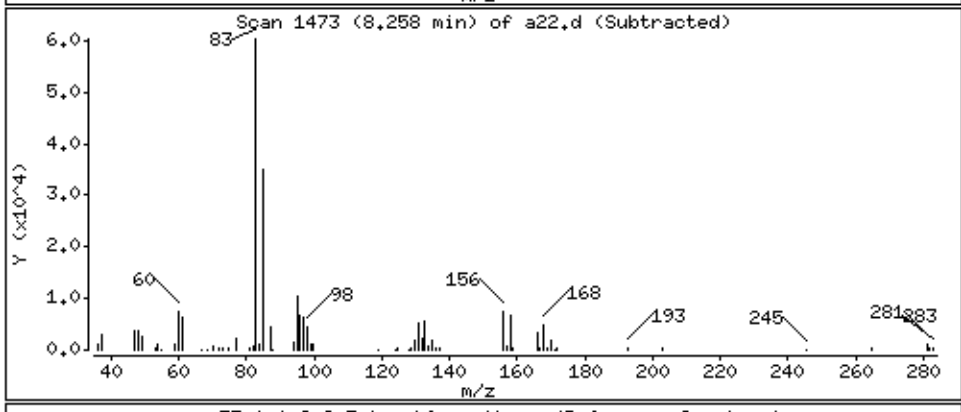
Column diameter: 0.18

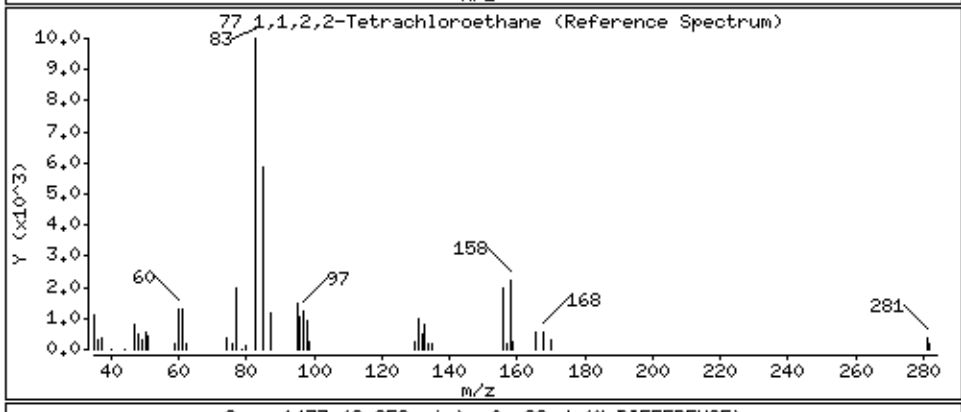
77 1,1,2,2-Tetrachloroethane

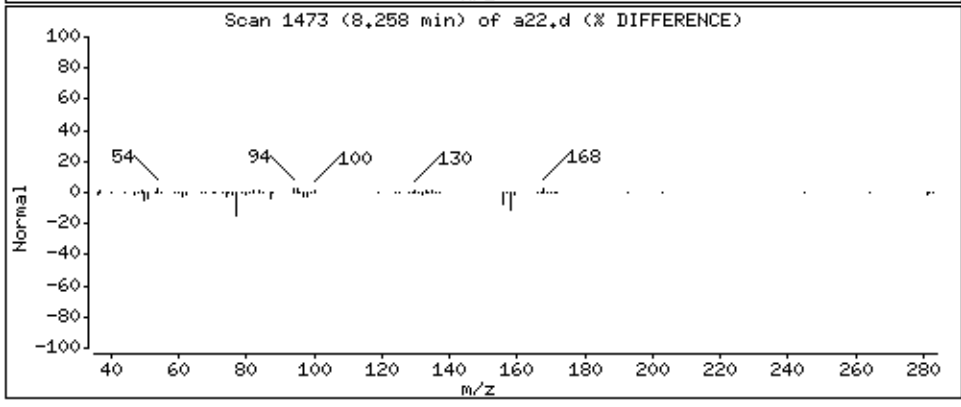
Concentration: 46.2 ppb

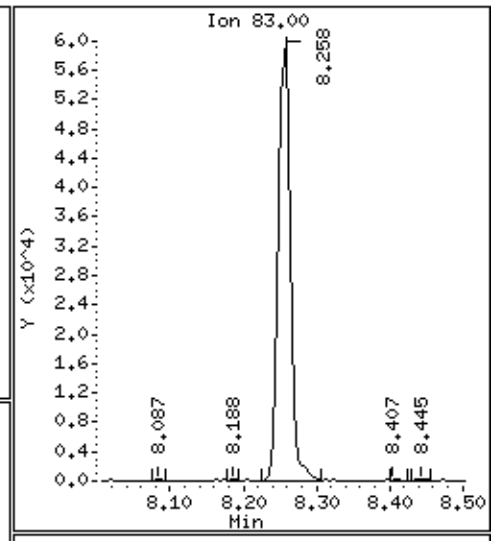
Review Code:

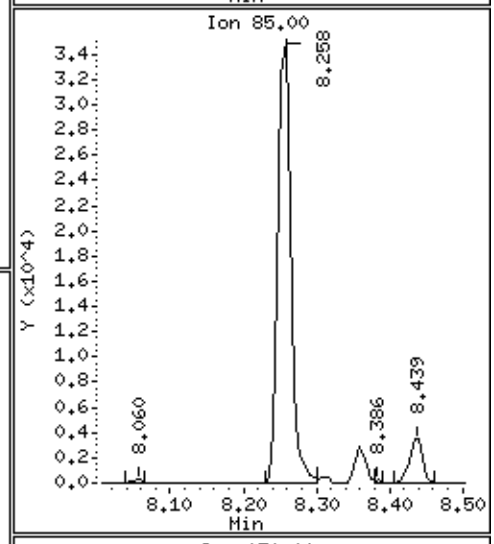


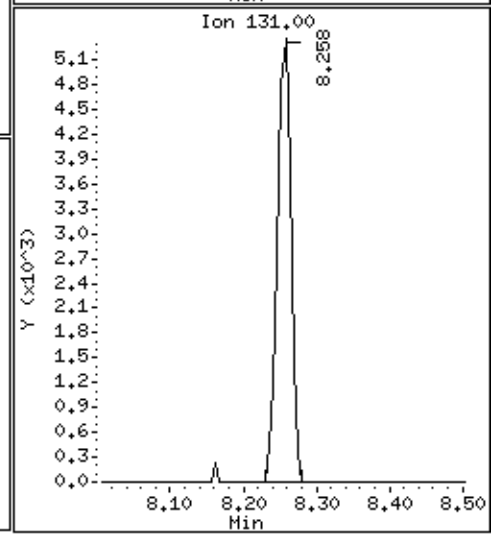












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

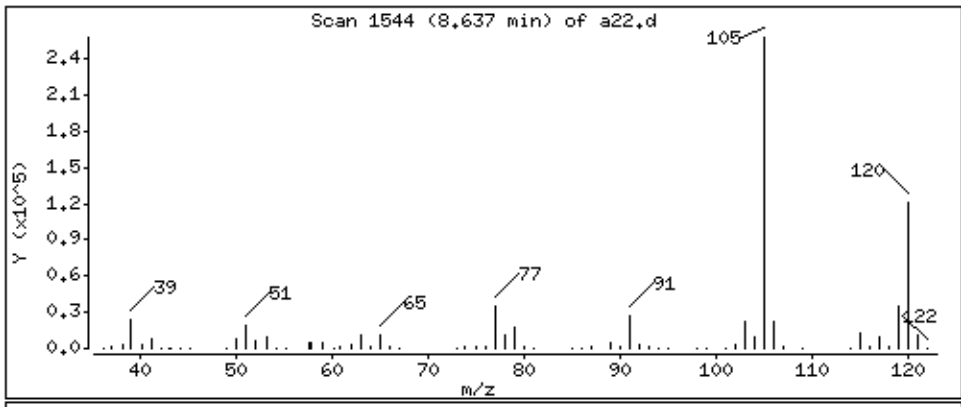
Column phase: DB-624

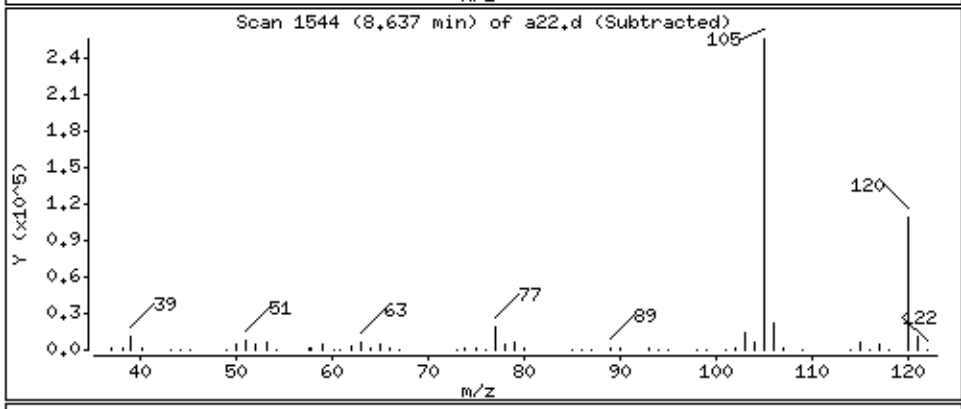
Column diameter: 0.18

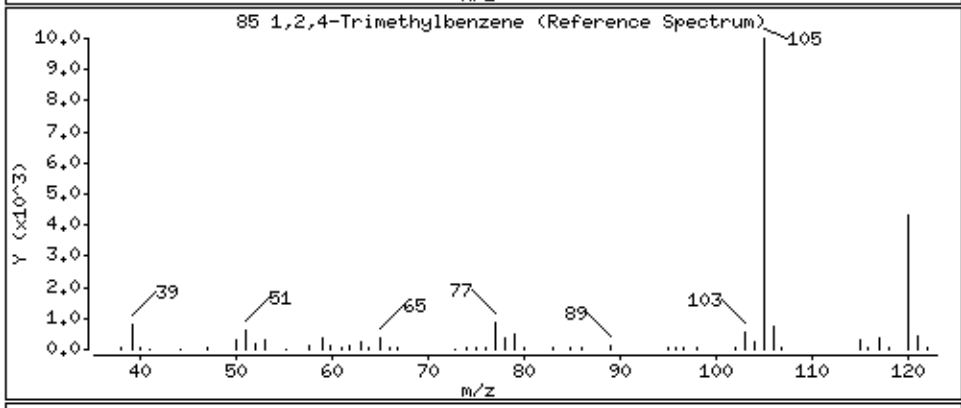
85 1,2,4-Trimethylbenzene

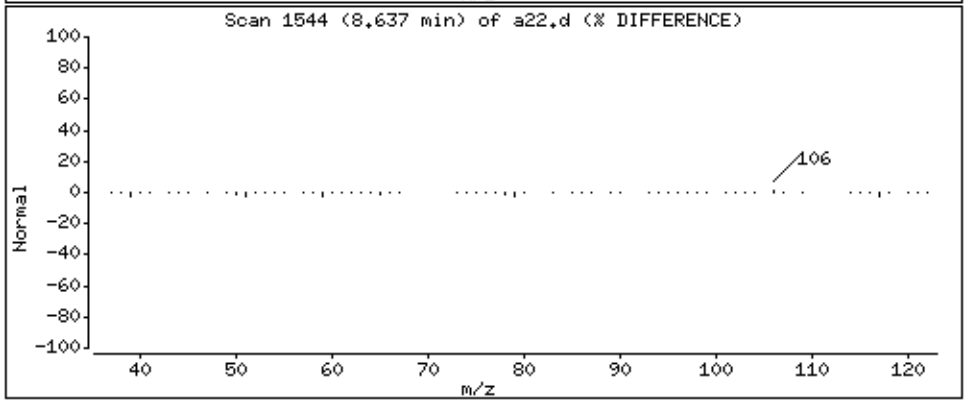
Concentration: 44.0 ppb

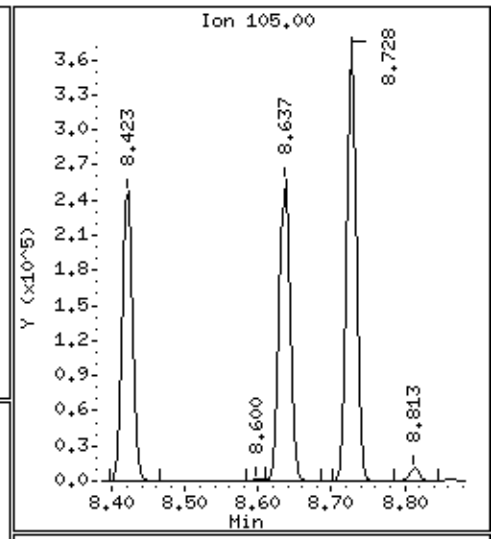
Review Code:

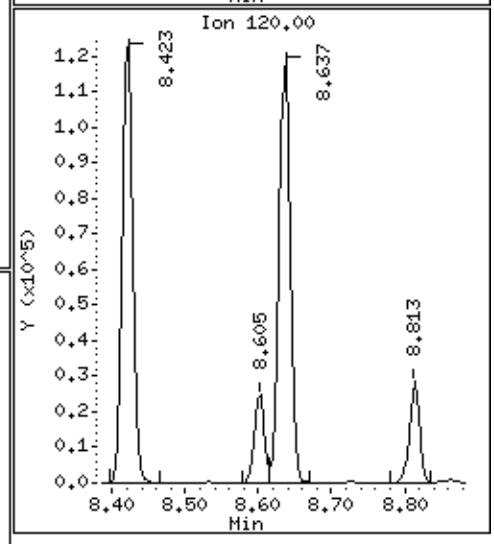












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b\a22.d

Date : 11-APR-2016 21:53

Client ID: MW-0501-S1(033016)P

Instrument: 50mv3a.i

Sample Info: 1516525,118316:5

Purge Volume: 5.0

Operator: jlz

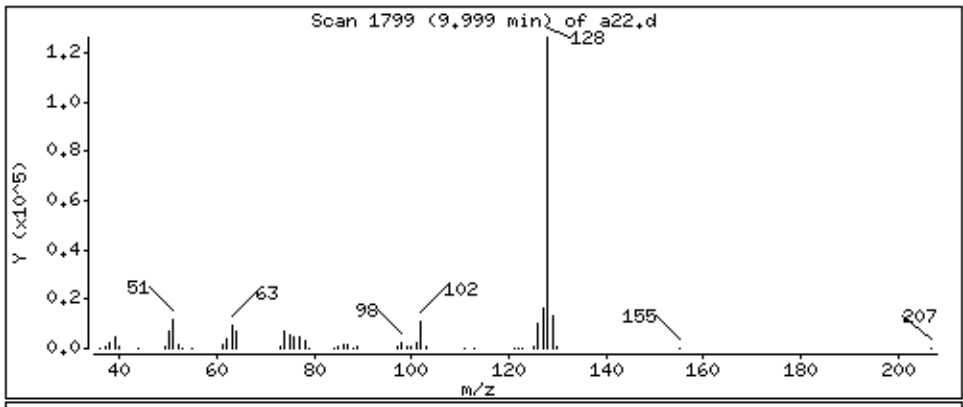
Column phase: DB-624

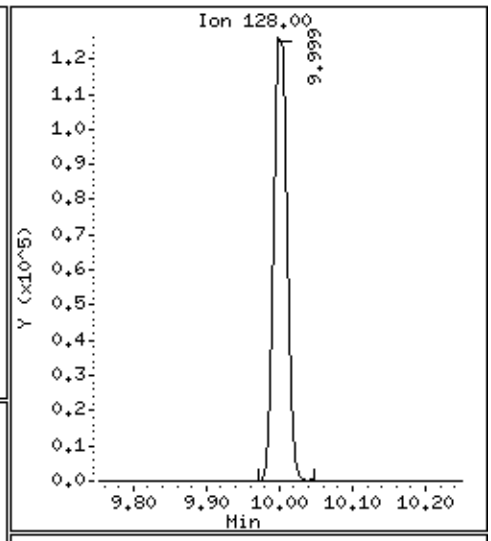
Column diameter: 0.18

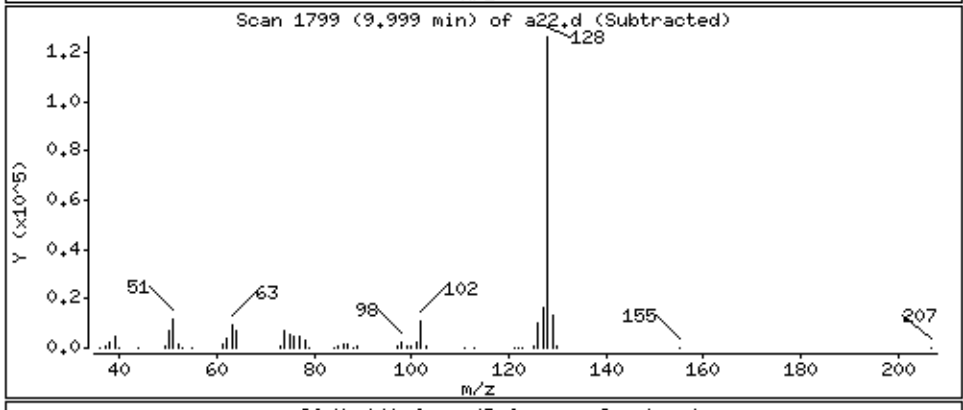
96 Naphthalene

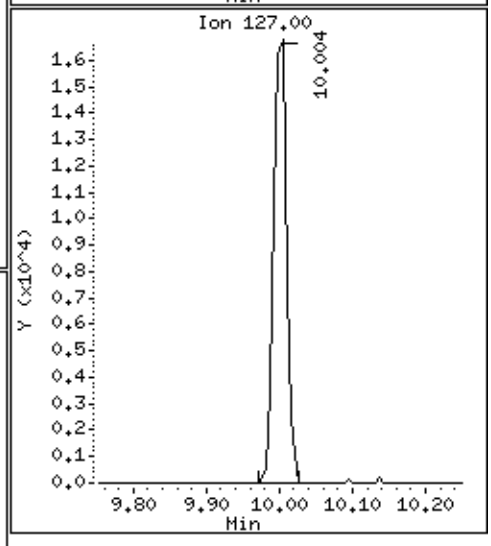
Concentration: 44.6 ppb

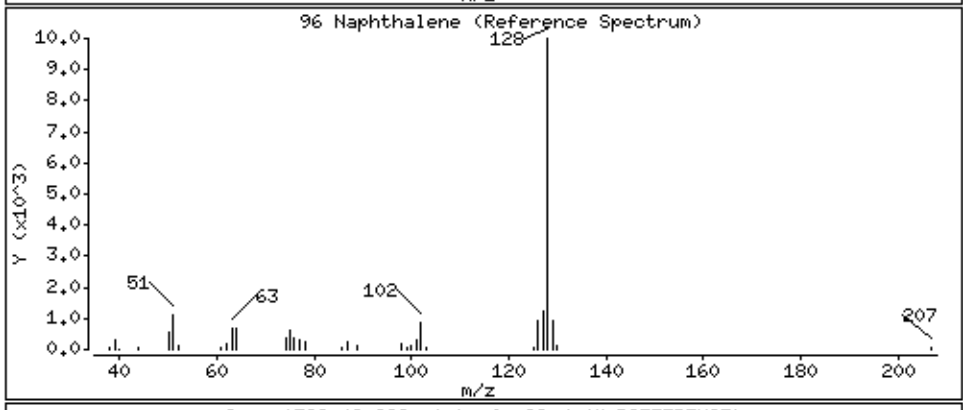
Review Code:

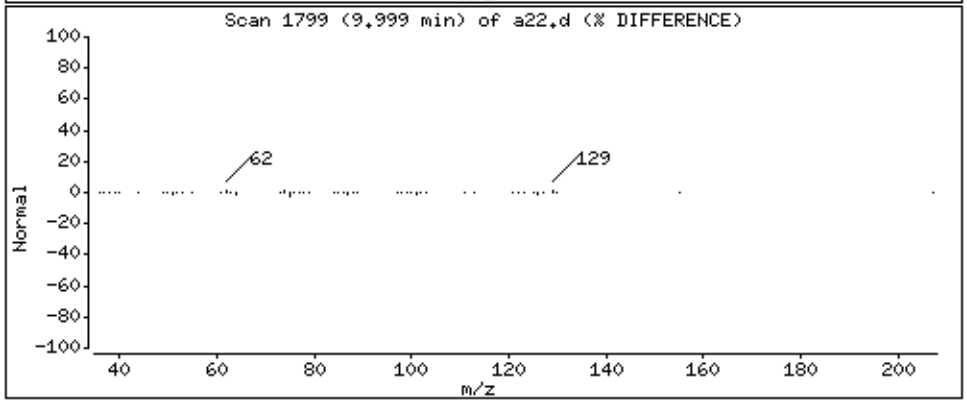












Data File: \\192.168.50.6\chem\50mv3a.i\a041116.b/a22.d
Injection Date: 11-APR-2016 21:53
Instrument: 50mv3a.i
Lab Sample ID: 1516525
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3b.i
Column DB-624 20m X 0.18mm Helium — Method:
Misc. Prep Info [L]:
ISTD lot: — Surr. lot: 117099:5
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,117885	L/88308	BFB	1	7	-bfb/all	3/25/16	13:31	jlz	
1/b01ccv.d	8260-CCV,117624:	L/87572	CCALIB_6	1	7	-b8260_a_c/all	3/25/16	14:03	jlz	Internals fail low
1/b02lcs.d	lcs,	L/	LCS	1	7	-b8260_a_c/ss	3/25/16	14:35	jlz	Recalve
1/b03mb.d	mb	L/	BLANK	1	7	-b8260_a_c/all	3/25/16	15:07	jlz	
1/b04cal1.d	8260-CAL1,117886	L/88308	CALIB_1	1	<2	-b8260_a_c/all	3/25/16	15:53	jlz	
1/b05cal2.d	8260-CAL2,117887	L/88308	CALIB_2	1	<2	-b8260_a_c/all	3/25/16	16:25	jlz	
1/b06cal3.d	8260-CAL3,117888	L/88308	CALIB_3	1	<2	-b8260_a_c/all	3/25/16	16:57	jlz	
1/b06cal3mqc.d	8260-CAL3,117888	L/88308	MQC	1	<2	-b8260_a_c/all	3/25/16	16:57	jlz	
1/b07cal4.d	8260-CAL4,117889	L/88308	CALIB_4	1	<2	-b8260_a_c/all	3/25/16	17:29	jlz	
1/b08cal5.d	8260-CAL5,117890	L/88308	CALIB_5	1	<2	-b8260_a_c/all	3/25/16	18:01	jlz	
1/b09cal6.d	8260-CAL6,117891	L/88308	CALIB_6	1	<2	-b8260_a_c/all	3/25/16	18:33	jlz	
1/b10cal7.d	8260-CAL7,117892	L/88308	CALIB_7	1	<2	-b8260_a_c/all	3/25/16	19:05	jlz	
1/b11cal8.d	8260-CAL8,117893	L/88308	CALIB_8	1	<2	-b8260_a_c/all	3/25/16	19:37	jlz	
1/b12.d	blank	L/88308	SAMPLE	1	<2	-b8260_a_c/all	3/25/16	20:09	jlz	
1/b13icv.d	8260-ICV,117894:	L/88308	ICV	1	<2	-b8260_a_c/all	3/25/16	20:42	jlz	
1/d00bfb.d	8260-TUNE,117885	L/88308	BFB	1	7	-bfb/all	3/25/16	21:14	jlz	
1/d01ccv.d	8260-CCV,117883:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	3/25/16	21:46	jlz	
1/d02lcsw.d	1506464,117441:5	L/88319	LCS	1	7	-b8260_a_c/ss	3/25/16	22:18	jlz	
1/d03mbw.d	1506463	L/88319	BLANK	1	7	-b8260_a_c/all	3/25/16	22:50	jlz	
1/d04.d WM-	50140762053	L/88319	SAMPLE	1	<2	-b8260_a_c/all	3/25/16	23:22	jlz	
1/d05.d	50140580039	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/25/16	23:54	jlz	
1/d06.d	50140580040	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	00:26	jlz	
1/d07.d	50140580041	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	00:58	jlz	
1/d08.d	50140580041x5	L/88319✓	SAMPLE	5	<2	-b8260_a_c/ust	3/26/16	01:30	jlz	E
1/d09.d	50140580042	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	02:02	jlz	
1/d10.d	50140580043	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	02:34	jlz	
1/d11.d	50140580044	L/88319	SAMPLE	1	<2	-b8260_a_c/all	3/26/16	03:06	jlz	
1/d12.d	50140580047	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	03:38	jlz	
1/d13.d	50140580048	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	04:10	jlz	
1/d14.d	50140580049	L/88319	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	04:42	jlz	
1/d15.d	50140863031x1.1	L/88275✓	SAMPLE	1.1	<2	-b8260_a_c/all	3/26/16	05:14	jlz	PCE -ND.
1/d16.d	50140863029x100	L/88275✓	SAMPLE	100	<2	-b8260_a_c/all	3/26/16	05:46	jlz	PCE
1/d17.d	50140863030x100	L/88275✓	SAMPLE	100	<2	-b8260_a_c/all	3/26/16	06:18	jlz	PCE
1/d18.d	50140863014x10	L/88273✓	SAMPLE	10	<2	-b8260_a_c/all	3/26/16	06:50	jlz	Conf PCE

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3b.i\b032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:12 03/29/2016

AE 3-28-16

* Sequence Stopped After Hop.
Due to No Emission Current - Filament 2.

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3b.i
Column DB-624 20m X 0.18mm Helium — Method:
Misc. Prep Info [L]:
ISTD lot: — Surr. lot: 117099:5
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d19.d WN -	50140863016x10	L/88273 ✓	SAMPLE	10	<2	-b8260_a_c/all	3/26/16	07:22	jlz	CONF PCE
1/d20.d	50140861014x10	L/88322 ✓	SAMPLE	10	<2	-b8260_a_c/ust	3/26/16	07:54	jlz	B.
1/d21.d	1506465,117441:5	L/88319	MS	1	<2	-b8260_a_c/ss	3/26/16	08:26	jlz	
1/d22.d	1506466,117441:5	L/88319	MSD	1	<2	-b8260_a_c/ss	3/26/16	08:58	jlz	
1/f00bfb.d	8260-TUNE,117885	L/88308	BFB	1	7	-bfb/all	3/26/16	09:30	jlz	
1/f01ccv.d	8260-CCV,117883:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	3/26/16	10:02	jlz	
1/f02lcsw.d	1506472,117441:5	L/88322	LCS	1	7	-b8260_a_c/ss	3/26/16	10:35	jlz	
1/f03mbw.d	1506471	L/88322	BLANK	1	7	-b8260_a_c/all	3/26/16	11:07	jlz	
1/f04.d WN -	50140861001	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	11:39	jlz	
1/f05.d	50140861002	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	12:11	jlz	
1/f06.d	50140861003	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	12:43	jlz	
1/f07.d	50140861004	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	13:15	jlz	
1/f08.d	50140861005	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	13:47	jlz	
1/f09.d X	50140861005x10	L/88322	SAMPLE	10	<2	-b8260_a_c/ust	3/26/16	14:19	jlz	OD
1/f10.d	50140861006	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	14:51	jlz	
1/f11.d	50140861007	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	15:23	jlz	
1/f12.d	50140861008	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	15:55	jlz	
1/f13.d X	50140861008x10	L/88322	SAMPLE	10	<2	-b8260_a_c/ust	3/26/16	16:27	jlz	OD.
1/f14.d	50140861009	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	16:59	jlz	
1/f15.d	50140861010	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	17:31	jlz	
1/f16.d	50140861011	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	18:03	jlz	RE 25%
1/f17.d	50140861012	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	18:35	jlz	
1/f18.d	50140861013	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	19:07	jlz	
1/f19.d	50140861015	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	19:39	jlz	
1/f20.d	50140861014	L/88322	SAMPLE	1	<2	-b8260_a_c/ust	3/26/16	20:11	jlz	Rpt B from File D.20
1/f21.d	1506473,117441:5	L/88322	MS	1	<2	-b8260_a_c/ust	3/26/16	20:43	jlz	
1/f22.d	1506474,117441:5	L/88322	MSD	1	<2	-b8260_a_c/ust	3/26/16	21:15	jlz	
1/h00bfb.d	8260-TUNE,117885	L/88308	BFB	1	7	-bfb/all	3/26/16	21:47	jlz	
1/h01ccv.d	8260-CCV,117883:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	3/26/16	22:19	jlz	
1/h02lcsw.d	1506984,117441:5	L/88337	LCS	1	7	-b8260_a_c/ss	3/26/16	22:51	jlz	
1/h03mbw.d	1506983	L/88337	BLANK	1	7	-b8260_a_c/all	3/26/16	23:23	jlz	
1/h04.d WN -	50140643001	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/26/16	23:55	jlz	
1/h05.d	50140643002	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/27/16	00:27	jlz	
1/h06.d	50140643003	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/27/16	01:00	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3b.i\b032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:12 03/29/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3b.i
Column DB-624 20m X 0.18mm Helium — Method:
Misc. Prep Info [L]:
ISTD lot: — Surr. lot: 117099:5
Tune std: _____ — Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/h07.d (WM-)	50140643004	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/27/16	01:32	jlz	10025K
1/h08.d	50140643005	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/27/16	02:04	jlz	
1/h09.d	50140643006	L/88337	SAMPLE	1	<2	-b8260_a_c/all	3/27/16	02:36	jlz	

* Sequence Stopped.

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3b.i\b032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 15:12 03/29/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 117099:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,117885	L/88307	BFB	1	7	-bfb/all	3/25/16	13:15	jlz	
1/a01ccv.d	8260-CCV,117624:	L/87571	CCALIB_6	1	7	-a8260_a_c/all	3/25/16	13:47	jlz	Internals failed low
1/a02lcs.d	lcs,117441:5	L/	LCS	1	7	-a8260_a_c/all	3/25/16	14:19	jlz	Recurx
1/a03mb.d	mb	L/	BLANK	1	7	-a8260_a_c/all	3/25/16	14:51	jlz	
1/a04cal1.d	8260-CAL1,117886	L/88307	CALIB_1	1	<2	-a8260_a_c/all	3/25/16	15:37	jlz	
1/a05cal2.d	8260-CAL2,117887	L/88307	CALIB_2	1	<2	-a8260_a_c/all	3/25/16	16:09	jlz	
1/a06cal3.d	8260-CAL3,117888	L/88307	CALIB_3	1	<2	-a8260_a_c/all	3/25/16	16:41	jlz	
1/a06cal3mqc.d	8260-CAL3,117888	L/88307	MQC	1	<2	-a8260_a_c/all	3/25/16	16:41	jlz	
1/a07cal4.d	8260-CAL4,117889	L/88307	CALIB_4	1	<2	-a8260_a_c/all	3/25/16	17:13	jlz	
1/a08cal5.d	8260-CAL5,117890	L/88307	CALIB_5	1	<2	-a8260_a_c/all	3/25/16	17:45	jlz	
1/a09cal6.d	8260-CAL6,117891	L/88307	CALIB_6	1	<2	-a8260_a_c/all	3/25/16	18:17	jlz	
1/a10cal7.d	8260-CAL7,117892	L/88307	CALIB_7	1	<2	-a8260_a_c/all	3/25/16	18:49	jlz	
1/a11cal8.d	8260-CAL8,117893	L/88307	CALIB_8	1	<2	-a8260_a_c/all	3/25/16	19:21	jlz	
1/a12.d	blank	L/88307	SAMPLE	1	<2	-a8260_a_c/all	3/25/16	19:53	jlz	
1/a13icv.d	8260-ICV,117894:	L/88307	ICV	1	<2	-a8260_a_c/all	3/25/16	20:26	jlz	
1/c00bfb.d	8260-TUNE,117885	L/88307	BFB	1	7	-bfb/all	3/25/16	20:58	jlz	
1/c01ccv.d	8260-CCV,117883:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	3/25/16	21:30	jlz	
1/c02lcsw.d	1506444,117441:5	L/88314	LCS	1	7	-a8260_a_c/ss	3/25/16	22:02	jlz	
1/c03mbw.d	1506443	L/88314	BLANK	1	7	-a8260_a_c/all	3/25/16	22:34	jlz	
1/c04.d WM-	50140580009	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/25/16	23:06	jlz	RL 20x
1/c05.d	50140580021	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/25/16	23:38	jlz	
1/c06.d	50140580024	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	00:10	jlz	
1/c07.d	50140580025	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	00:42	jlz	
1/c08.d	50140580026	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	01:14	jlz	RL 10x
1/c09.d	50140580027	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	01:46	jlz	
1/c10.d *	50140580027x10	L/88314	SAMPLE	10	<2	-a8260_a_c/ust	3/26/16	02:18	jlz	OD.
1/c11.d	50140580028	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	02:50	jlz	
1/c12.d	50140580029	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	03:22	jlz	
1/c13.d	50140580030	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	03:54	jlz	
1/c14.d	50140580031	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	04:26	jlz	
1/c15.d	50140580033	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	04:58	jlz	
1/c16.d	50140580034	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	05:30	jlz	
1/c17.d	50140580035	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	06:02	jlz	
1/c18.d	50140580036	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	06:34	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:46 03/29/2016

At 3.28.16

* Sequence Stopped After C10 Due to Ion Source Current. filament 2.

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 117099:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c19.d WM-	50140580037	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	07:06	jlz	
1/c20.d	50140580038	L/88314	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	07:38	jlz	
1/c21.d	1506445,117441:5	L/88314	MS	1	<2	-a8260_a_c/ust	3/26/16	08:10	jlz	
1/c22.d	1506446,117441:5	L/88314	MSD	1	<2	-a8260_a_c/ust	3/26/16	08:42	jlz	
1/e00bfb.d	8260-TUNE,117885	L/88307	BFB	1	7	-bfb/all	3/26/16	09:14	jlz	
1/e01ccv.d	8260-CCV,117883:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	3/26/16	09:46	jlz	
1/e02lcsw.d	1506455,117441:5	L/88317	LCS	1	7	-a8260_a_c/ss	3/26/16	10:18	jlz	
1/e03mbw.d	1506454	L/88317	BLANK	1	7	-a8260_a_c/all	3/26/16	10:51	jlz	
1/e04.d WM-	50140580001	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	11:23	jlz	
1/e05.d	50140580002	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	11:55	jlz	
1/e06.d	50140580003	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	12:27	jlz	
1/e07.d	50140580003x10	L/88317 ✓	SAMPLE	10	<2	-a8260_a_c/ust	3/26/16	12:59	jlz	EMP
1/e08.d	50140580004	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	13:31	jlz	
1/e09.d	50140580004x10	L/88317 ✓	SAMPLE	10	<2	-a8260_a_c/ust	3/26/16	14:03	jlz	EMP
1/e10.d	50140580005	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	14:35	jlz	
1/e11.d	50140580006	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	15:07	jlz	
1/e12.d	50140580007	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	15:39	jlz	
1/e13.d	50140580008	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	16:11	jlz	
1/e14.d	50140580010	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	16:43	jlz	
1/e15.d	50140580010x10	L/88317 ✓	SAMPLE	10	<2	-a8260_a_c/ust	3/26/16	17:15	jlz	EMP
1/e16.d	50140580011	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	17:47	jlz	
1/e17.d	50140580012	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	18:19	jlz	PLSC
1/e18.d	50140580013	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	18:51	jlz	
1/e19.d	50140580013x10	L/88317 ✓	SAMPLE	10	<2	-a8260_a_c/ust	3/26/16	19:23	jlz	EMP.
1/e20.d	50140580014	L/88317	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	19:55	jlz	
1/e21.d	1506456,117441:5	L/88317	MS	1	<2	-a8260_a_c/ust	3/26/16	20:27	jlz	
1/e22.d	1506457,117441:5	L/88317	MSD	1	<2	-a8260_a_c/ust	3/26/16	20:59	jlz	
1/g00bfb.d	8260-TUNE,117885	L/88307	BFB	1	7	-bfb/all	3/26/16	21:31	jlz	
1/g01ccv.d	8260-CCV,117883:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	3/26/16	22:03	jlz	
1/g02lcsw.d	1506988,117441:5	L/88338	LCS	1	7	-a8260_a_c/ss	3/26/16	22:35	jlz	
1/g03mbw.d	1506987	L/88338	BLANK	1	7	-a8260_a_c/all	3/26/16	23:07	jlz	
1/g04.d WM-	50140580015	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/26/16	23:39	jlz	LT#23631
1/g05.d	50140580016	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	00:12	jlz	
1/g06.d	50140580017	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	00:44	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:46 03/29/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 117099:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/g07.d (WY-)	50140580018	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	01:16	jlz	
1/g08.d	50140580019	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	01:48	jlz	
1/g09.d	50140580020	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	02:20	jlz	
1/g10.d	50140580022	L/88338	SAMPLE	1	<2	-a8260_a_c/ust	3/27/16	02:52	jlz	

* Sequence Stopped.

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a032516cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:46 03/29/2016

Page: 3

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium Method:
Misc. Prep Info [L]:
ISTD lot: Surr. lot: 118670:5
Tune std: _____ Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/a00bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/11/16	10:06	jlz	
1/a01ccv.d	8260-CCV,118684:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	4/11/16	10:38	jlz	VVC (ND)
1/a02lcsw.d	lcs,118316:0	L/	LCS	1	7	-a8260_a_c/ss	4/11/16	11:10	jlz	
1/a03mbw.d	mb	L/	BLANK	1	7	-a8260_a_c/all	4/11/16	11:42	jlz	
1/a04.d	50141742008	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	12:14	jlz	
1/a05.d	50141742010	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	12:46	jlz	
1/a06.d	50141647003	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	13:18	jlz	
1/a07.d	50141677012	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	13:50	jlz	
1/a08.d	50141742003x50	L/88861	SAMPLE	50	<2	-a8260_a_c/all	4/11/16	14:23	jlz	
1/a09.d	50141641034	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	14:56	jlz	
1/a10.d	50141641034x10	L/88900	SAMPLE	10	<2	-a8260_a_c/all	4/11/16	15:28	jlz	MBR, B, E
1/a11.d	50141641020	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	16:01	jlz	
1/a12.d	50141641020x20	L/88900	SAMPLE	20	<2	-a8260_a_c/all	4/11/16	16:33	jlz	B, E, MP, MB
1/a13.d	50141641002	L/88900	SAMPLE	1	7	-a8260_a_c/all	4/11/16	17:05	jlz	HS
1/a14.d	50141641002x10	L/88900	SAMPLE	10	7	-a8260_a_c/all	4/11/16	17:37	jlz	B
1/a15.d	50141641006	L/88900	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	18:09	jlz	
1/a16.d	50141641006x25	L/88900	SAMPLE	25	<2	-a8260_a_c/all	4/11/16	18:41	jlz	OD
1/a17.d	50141641032x100	L/88867	SAMPLE	100	<2	-a8260_a_c/all	4/11/16	19:13	jlz	
1/a18.d	50141666001	L/88901	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	19:45	jlz	
1/a19.d	50141666002	L/88901	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	20:17	jlz	
1/a20.d	50141666003	L/88901	SAMPLE	1	<2	-a8260_a_c/all	4/11/16	20:49	jlz	
1/a21.d	1516524,118316:5	L/88901	MS	1	<2	-a8260_a_c/ss	4/11/16	21:21	jlz	
1/a22.d	1516525,118316:5	L/88901	MSD	1	<2	-a8260_a_c/ss	4/11/16	21:53	jlz	
1/c00bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/11/16	22:26	jlz	
1/c01ccv.d	8260-CCV,118684:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	4/11/16	22:58	jlz	VVC
1/c02lcsw-ccv.d	8260-CCV,118684:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	4/11/16	23:30	jlz	USE ICS & CCV.
1/c02lcsw.d	1516494,118316:5	L/88898	LCS	1	7	-a8260_a_c/ss	4/11/16	23:30	jlz	
1/c03mbw.d	1516493	L/88898	BLANK	1	7	-a8260_a_c/all	4/12/16	00:02	jlz	
1/c04.d	50141666004	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	00:34	jlz	
1/c05.d	50141666005	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	01:06	jlz	
1/c06.d	50141666006	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	01:38	jlz	
1/c07.d	50141666007	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	02:10	jlz	
1/c08.d	50141666008	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	02:42	jlz	
1/c09.d	50141666009	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	03:14	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a041116.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:21 04/12/2016

4-12-16

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 118670:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/c10.d	50141666010	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	03:46	jlz	
1/c11.d	50141666011	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	04:18	jlz	
1/c12.d	50141666012	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	04:50	jlz	
1/c13.d	50141666013	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	05:22	jlz	
1/c14.d	50141666015	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	05:54	jlz	
1/c15.d	50141666015x10	L/88898	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	06:26	jlz	
1/c16.d	50141666016	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	06:58	jlz	
1/c17.d	50141666016x10	L/88898	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	07:30	jlz	
1/c18.d	50141666018	L/88898	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	08:02	jlz	
1/c19.d	50141666018x10	L/88898	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	08:34	jlz	
1/c20.d	1516495,118316:5	L/88898	MS	1	<2	-a8260_a_c/ss	4/12/16	09:06	jlz	
1/c21.d	1516496,118316:5	L/88898	MSD	1	<2	-a8260_a_c/ss	4/12/16	09:38	jlz	
1/c22.d	1515785,118316:5	L/88855	MSD	1	<2	-a8260_a_c/all	4/12/16	10:10	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a041116.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:21 04/12/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: Sand 107503
ISTD lot:
Tune std: _____

Method:

Surr. lot: 118670:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/b00bfb.d	8260-TUNE,118671	L/88308	BFB	1	7	-bfb/all	4/11/16	10:22	jlz	
1/b01ccv.d	8260-CCV,118684:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	4/11/16	10:54	jlz	VVC (MD)
1/b02lcss.d	lcs,118316:5	S/	LCS	1		-b8260_a_c/ss	4/11/16	11:26	jlz	Sand Lot: Sand 107503
1/b03mbs.d	mb	S/	BLANK	1		-b8260_a_c/all	4/11/16	11:58	jlz	Sand Lot: Sand 107503
1/b04lcsm.d	lcs,118316:5	S/	LCS	1		-b8260_a_c/ss	4/11/16	12:30	jlz	Sand Lot: Sand 107503
1/b05mbm.d	mb	S/	BLANK	1		-b8260_a_c/all	4/11/16	13:02	jlz	Sand Lot: Sand 107503
1/b06.d TCUST	50141918001x1.1	S/88783 ✓	SAMPLE	1.1		-b8260_a_c/ust	4/11/16	13:34	jlz	VFS confirmed
1/b07 X TC	50141925006x100	S/88765	SAMPLE	100		-b8260_a_c/all	4/11/16	14:07	jlz	Not Needed
1/b08.d	50141789001	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	14:39	jlz	VFS RL 1.1x
1/b09.d	50141789002	S/L/88897	SAMPLE	1	<2	-b8260_a_c/all	4/11/16	15:12	jlz	
1/b10.d	ms002,118316:5	S/L/88897	SAMPLE	1	<2	-b8260_a_c/all	4/11/16	15:44	jlz	1511489
1/b11.d	msd002,118316:5	S/L/88897	SAMPLE	1	<2	-b8260_a_c/all	4/11/16	16:17	jlz	1511490
1/b12.d	50141789003	S/L/88897	SAMPLE	1	<2	-b8260_a_c/all	4/11/16	16:49	jlz	
1/b13.d	50142175001	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	17:21	jlz	
1/b14.d	50142175002	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	17:53	jlz	VFS RL 1.1x
1/b15.d	50142175003	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	18:25	jlz	
1/b16.d	50142175004	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	18:57	jlz	TCE RL 100x
1/b17.d	50142175005	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	19:29	jlz	
1/b18.d	50142175007	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	20:01	jlz	
1/b19.d	50142175009	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	20:33	jlz	
1/b20.d	50142175010	S/88897	SAMPLE	1		-b8260_a_c/all	4/11/16	21:05	jlz	VFS TCE RL 100x
1/b21.d	50142175008x25	S/88897	SAMPLE	25		-b8260_a_c/all	4/11/16	21:37	jlz	D4 RL 1000x
1/b22.d	50142175006x100	S/88897	SAMPLE	100		-b8260_a_c/all	4/11/16	22:09	jlz	D4 RL 1000x
1/d00bfb.d	8260-TUNE,118671	L/88308	BFB	1	7	-bfb/all	4/11/16	22:41	jlz	
1/d01ccv.d	8260-CCV,118684:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	4/11/16	23:14	jlz	VVC
1/d02lcsw-ccv.d	8260-CCV,118684:	L/88308	CCALIB_6	1	7	-b8260_a_c/all	4/11/16	23:46	jlz	ICSRccv.
1/d02lcsw.d	1516502,118316:5	L/88899	LCS	1	7	-b8260_a_c/ss	4/11/16	23:46	jlz	
1/d03mbw.d	1516501	L/88899	BLANK	1	7	-b8260_a_c/all	4/12/16	00:18	jlz	
1/d04.d W	50141666014	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	00:50	jlz	
1/d05.d	50141666017	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	01:22	jlz	
1/d06.d	50141666020	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	01:54	jlz	
1/d07.d	50141666021	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	02:26	jlz	
1/d08.d	50141666022	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	02:58	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3b.i\b041116.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:26 04/12/2016

Page: 1

4/12/16

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3b.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
Misc. Prep Info [S]: Sand 107503
ISTD lot:
Tune std: _____

Method:

Surr. lot: 118670:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/d09.d	50141666024	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	03:30	jlz	
1/d10.d	50141666025	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	04:02	jlz	
1/d11.d	50141666027	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	04:34	jlz	
1/d12.d	50141666028	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	05:06	jlz	
1/d13.d	50141666029	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	05:38	jlz	
1/d14.d	50141666019	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	06:10	jlz	
1/d15.d	50141666019x10	L/88899	SAMPLE	10	<2	-b8260_a_c/all	4/12/16	06:42	jlz	
1/d16.d	50141666023	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	07:14	jlz	
1/d17.d	50141666023x10	L/88899	SAMPLE	10	<2	-b8260_a_c/all	4/12/16	07:46	jlz	
1/d18.d	50141666026	L/88899	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	08:18	jlz	
1/d19.d	50141666026x10	L/88899	SAMPLE	10	<2	-b8260_a_c/all	4/12/16	08:50	jlz	↑TCE 1850x
1/d20.d	1516503,118316:5	L/88899	MS	1	<2	-b8260_a_c/ss	4/12/16	09:22	jlz	
1/d21.d	1516504,118316:5	L/88899	MSD	1	<2	-b8260_a_c/ss	4/12/16	09:54	jlz	
1/d22.d	blank	L/	SAMPLE	1	<2	-b8260_a_c/all	4/12/16	10:26	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3b.i\b041116.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 11:26 04/12/2016

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 118670:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/e00bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/12/16	10:42	jlz	USE CCV'S BFB to save time
1/e01ccv-bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/12/16	11:14	jlz	
1/e01ccv.d	8260-CCV,119110:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	4/12/16	11:14	jlz	
1/e02lcsw.d	1516900,118316:5	L/88912	LCS	1	7	-a8260_a_c/ss	4/12/16	11:56	jlz	
1/e02lcswx.d	1516886,118316:5	L/88909	LCS	1	7	-a8260_a_c/ss	4/12/16	11:56	jlz	
1/e03mbw.d	1516899	L/88912	BLANK	1	7	-a8260_a_c/all	4/12/16	12:28	jlz	
1/e03mbwx.d	1516885	L/88909	BLANK	1	7	-a8260_a_c/all	4/12/16	12:28	jlz	
1/e04.d WM-	50141744010	L/88909	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	13:00	jlz	
1/e05.d	50141744011	L/88909	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	13:32	jlz	
1/e06.d	50141744012	L/88909	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	14:04	jlz	
1/e07.d	50141744013	L/88909	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	14:36	jlz	
1/e08.d	50142571001	L/88909	SAMPLE	1	7 ⊘	-a8260_a_c/all	4/12/16	15:08	jlz	↑PCE RR 10x HS
1/e09.d W-	50141766003x10	L/88912	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	15:40	jlz	DY
1/e10.d	50141766003x100	L/88912✓	SAMPLE	100	<2	-a8260_a_c/all	4/12/16	16:12	jlz	BTEMPO
1/e11.d	50141766010x10	L/88912	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	16:44	jlz	DY
1/e12.d	50141766010x100	L/88912✓	SAMPLE	100	<2	-a8260_a_c/all	4/12/16	17:16	jlz	BTEMPO
1/e13.d	50141766002	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	17:48	jlz	
1/e14.d X	50141766002x10	L/88912	SAMPLE	10	<2	-a8260_a_c/all	4/12/16	18:20	jlz	OD.
1/e15.d	50141766004	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	18:52	jlz	
1/e16.d	50141766005	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	19:24	jlz	
1/e17.d	50141766006	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	19:56	jlz	
1/e18.d	50141766007	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	20:28	jlz	
1/e19.d	50141766008	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	21:00	jlz	
1/e20.d	50141766009	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	21:32	jlz	
1/e21.d	50141766001	L/88912	SAMPLE	1	<2	-a8260_a_c/all	4/12/16	22:04	jlz	
1/e22.d	1516901,118316:5	L/88912	MS	1	<2	-a8260_a_c/ss	4/12/16	22:36	jlz	
1/e23.d	1516902,118316:5	L/88912	MSD	1	<2	-a8260_a_c/ss	4/12/16	23:08	jlz	
1/g00bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/12/16	23:40	jlz	
1/g01ccv-bfb.d	8260-TUNE,118671	L/88307	BFB	1	7	-bfb/all	4/13/16	00:12	jlz	USE CCV'S BFB to save time
1/g01ccv.d	8260-CCV,119110:	L/88307	CCALIB_6	1	7	-a8260_a_c/all	4/13/16	00:12	jlz	
1/g02lcsw.d	1516905,118316:5	L/88913	LCS	1	7	-a8260_a_c/ss	4/13/16	00:44	jlz	
1/g03mbw.d	1516904	L/88913	BLANK	1	7	-a8260_a_c/all	4/13/16	01:16	jlz	
1/g04.d W	50141666015x25	L/88898✓	SAMPLE	25	<2	-a8260_a_c/all	4/13/16	01:48	jlz	TCE
1/g05.d	50141666026x50	L/88899✓	SAMPLE	50	<2	-a8260_a_c/all	4/13/16	02:20	jlz	TCE

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a041216.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:17 04/13/2016

Page: 1

A41316

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv3a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 118670:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist	Date	Time	Oper	Comments
1/g06.d W-	50141666027x50	L/88899 ✓	SAMPLE	50	<2	-a8260_a_c/all	4/13/16	02:52	jlz	TCE
1/g07.d	50141766011	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	03:24	jlz	
1/g08.d	50141794003	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	03:56	jlz	
1/g09.d	50141794005	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	04:28	jlz	
1/g10.d	50141794006	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	05:00	jlz	
1/g11.d	50141794007	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	05:32	jlz	
1/g12.d	50141794008	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	06:04	jlz	
1/g13.d	50141794010	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	06:36	jlz	
1/g14.d	50141794002	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	07:08	jlz	
1/g15.d	50141794002x10	L/88913 ✓	SAMPLE	10	<2	-a8260_a_c/all	4/13/16	07:40	jlz	
1/g16.d	50141794001	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	08:12	jlz	
1/g17.d	50141794001x10	L/88913 ✓	SAMPLE	10	<2	-a8260_a_c/all	4/13/16	08:44	jlz	
1/g18.d	50141794004	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	09:16	jlz	
1/g19.d ✗	50141794004x10	L/88913	SAMPLE	10	<2	-a8260_a_c/all	4/13/16	09:49	jlz	QD.
1/g20.d	50142571001x10	L/88909 ✓	SAMPLE	10 7 Ø		-a8260_a_c/all	4/13/16	10:21	jlz	PCE, HS
1/g21.d	50141794009	L/88913	SAMPLE	1	<2	-a8260_a_c/all	4/13/16	10:53	jlz	
1/g22.d	1517044,118316:5	L/88913	MS	1	<2	-a8260_a_c/ss	4/13/16	11:24	jlz	
1/g23.d	1517045,118316:5	L/88913	MSD	1	<2	-a8260_a_c/ss	4/13/16	11:56	jlz	

Comments: All water samples have a pH below 2 unless otherwise noted.

File Path 1: \\192.168.50.6\chem\50mv3a.i\a041216.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 12:17 04/13/2016

ARCADIS Design & Consultancy for natural and built assets

RACER Trust
Former GM Delco Plant 5

Data Review

KOKOMO, INDIANA

Volatile Organic Compounds Analyses

SDG #50141666

Analyses Performed By:
Pace Analytical
Indianapolis, Indiana

Report #25494R
Review Level: Tier III
Project: IN000884.2016.00006

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #50141666 for samples collected in association with the RACER Trust site in Kokomo, Indiana. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
						VOC	MISC
50141666	TB-01(033016)-LM	50141666001	Water	03/30/2016		X	
	MW-0103-S1U(033016)PDB	50141666002	Water	03/30/2016		X	
	MW-0501-S1(033016)PDB	50141666003	Water	03/30/2016		X	
	MW-0502-S1(033016)PDB	50141666004	Water	03/30/2016		X	
	MW-0503-S1(033016)PDB	50141666005	Water	03/30/2016		X	
	MW-0505-S1(033016)PDB	50141666006	Water	03/30/2016		X	
	EB-1(033016)-LM	50141666007	Water	03/30/2016		X	
	MW-0506-S1(033016)PDB	50141666008	Water	03/30/2016		X	
	MW-0507-S1(033016)PDB	50141666009	Water	03/30/2016		X	
	MW-0509-S1(033016)PDB	50141666010	Water	03/30/2016		X	
	MW-0516-S1(033016)PDB	50141666011	Water	03/30/2016		X	
	FD-1(033016)-LM	50141666012	Water	03/30/2016	MW-0516-S1(033016)PDB	X	
	MW-0602-S1(033016)PDB	50141666013	Water	03/30/2016		X	
	MW-0603-S1(033016)PDB	50141666014	Water	03/30/2016		X	
	MW-0604-S1(033016)PDB	50141666015	Water	03/30/2016		X	
	MW-0605-S1(033016)PDB	50141666016	Water	03/30/2016		X	
	MW-0607-S1(033016)PDB	50141666017	Water	03/30/2016		X	
	MW-0608-S1(033016)PDB	50141666018	Water	03/30/2016		X	
	MW-0609-S1(033016)PDB	50141666019	Water	03/30/2016		X	
	MW-0610-S1(033016)PDB	50141666020	Water	03/30/2016		X	
	MW-0613-S1(033016)PDB	50141666021	Water	03/30/2016		X	
	EB-2(033016)-LM	50141666022	Water	03/30/2016		X	
	MW-0617-S1(033016)PDB	50141666023	Water	03/30/2016		X	
	MW-0618-S1(033016)PDB	50141666024	Water	03/30/2016		X	
	MW-0619-S1(033016)PDB	50141666025	Water	03/30/2016		X	
	MW-0620-S1(033016)PDB	50141666026	Water	03/30/2016		X	

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
						VOC	MISC
	FD-2(033016)-LM	50141666027	Water	03/30/2016	MW-0620-S1(033016)PDB	X	
	MW-0623-S1(033016)PDB	50141666028	Water	03/30/2016		X	
	MW-0705-S1(033016)PDB	50141666029	Water	03/30/2016		X	

Note:

The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on samples MW-0503-S1(033016)PDB, MW-0705-S1(033016)PDB and MW-0501-S1(033016)PDB.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
TB-01(033016)-LM MW-0103-S1U(033016)PDB MW-0501-S1(033016)PDB MW-0502-S1(033016)PDB MW-0503-S1(033016)PDB MW-0505-S1(033016)PDB EB-1(033016)-LM MW-0506-S1(033016)PDB MW-0507-S1(033016)PDB MW-0509-S1(033016)PDB MW-0516-S1(033016)PDB FD-1(033016)-LM MW-0602-S1(033016)PDB MW-0604-S1(033016)PDB MW-0605-S1(033016)PDB MW-0608-S1(033016)PDB MW-0620-S1(033016)PDB FD-2(033016)-LM	ICV %RSD	Bromomethane	19.9%
		Chloroethane	19.0%
		Chloromethane	17.5%
		1,2-Dibromo-3-chloropropane	17.0%
		trans-1,3-Dichloropropene	19.0%
MW-0603-S1(033016)PDB MW-0607-S1(033016)PDB MW-0609-S1(033016)PDB MW-0610-S1(033016)PDB MW-0613-S1(033016)PDB EB-2(033016)-LM MW-0617-S1(033016)PDB MW-0618-S1(033016)PDB MW-0619-S1(033016)PDB MW-0623-S1(033016)PDB MW-0705-S1(033016)PDB	ICV %RSD	Acetone	17.8%
		Bromomethane	17.9%
		Chloromethane	16.8%
		1,2-Dibromo-3-chloropropane	16.3%
		trans-1,3-Dichloropropene	18.3%
TB-01(033016)-LM MW-0103-S1U(033016)PDB MW-0501-S1(033016)PDB	CCV %D	Bromoform	21.9%
		Bromomethane	-26.1%
		Chloroethane	-21.2%
		Chloromethane	-29.8%
		Dichlorodifluoromethane	-31.8%
		Methyl acetate	-15.1%

Sample Locations	Initial/Continuing	Compound	Criteria
		Methylene Chloride	-15.6%
		Vinyl chloride	-21.2%
MW-0502-S1(033016)PDB MW-0503-S1(033016)PDB MW-0505-S1(033016)PDB EB-1(033016)-LM MW-0506-S1(033016)PDB MW-0507-S1(033016)PDB MW-0509-S1(033016)PDB MW-0516-S1(033016)PDB FD-1(033016)-LM MW-0602-S1(033016)PDB MW-0604-S1(033016)PDB MW-0605-S1(033016)PDB MW-0608-S1(033016)PDB	CCV %D	Chloromethane	-23.6%
MW-0603-S1(033016)PDB MW-0607-S1(033016)PDB MW-0609-S1(033016)PDB MW-0610-S1(033016)PDB MW-0613-S1(033016)PDB EB-2(033016)-LM MW-0617-S1(033016)PDB MW-0618-S1(033016)PDB MW-0619-S1(033016)PDB MW-0620-S1(033016)PDB FD-2(033016)-LM MW-0623-S1(033016)PDB MW-0705-S1(033016)PDB	CCV %D	Bromomethane	-23.6%
		Chloroethane	-27.0%
		Chloromethane	-28.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-0516-S1(033016)PDB/ FD-1(033016)-LM	All compounds	U	U	AC
MW-0620-S1(033016)PDB/ FD-2(033016)-LM	cis-1,2-Dichloroethene	6.0	5.9	1.7%
	Trichloroethene	4690	4410	6.2%

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0604-S1(033016)PDB	cis-1,2-Dichloroethene	--	1030 D	1030 D
	Trichloroethene	--	3340 D	3340 D
MW-0605-S1(033016)PDB	Trichloroethene	--	742 D	742 D
MW-0620-S1(033016)PDB	Trichloroethene	--	4690 D	4690 D
FD-2(033016)-LM	Trichloroethene	--	4410 D	4410 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X	X		
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Validation Performed By: Andrew Korycinski

Signature:

Date: April 27, 2016

Peer Review: Dennis Capria

Date: May 4, 2016

CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

2044469

Section A Required Client Information:

Company:	ARCADIS
Address:	132 E Washington St Indpls, IN 46204
Email To:	Sarah.Tanker
Phone: 317-231-6500	Fax: 317-231-6514
Requested Due Date/TAT:	Std

Section B Required Project Information:

Report To:	Sarah Tanker
Copy To:	Matt Griffes, Sarah Fisher
Purchase Order No.:	IN000884.2016.00006
Project Name:	Race-Kokomo Former GM Delco
Project Number:	IN000884.2016.00006

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Donna Szymkus
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-01(033016)-LM	WG	G			3.30.16	0845		3				X						X		001
2	MW-0103-S1(033016)PDB	WG	G				1212		3				X						X		002
3	MW-0501-S1(033016)PDB	WG	G				1224		9				X						X	MS/MSD	003
4	MW-0502-S1(033016)PDB	WG	G				1139		3				X						X		004
5	MW-0503-S1(033016)PDB	WG	G				1125		9				X						X	MS/MSD	005
6	MW-0505-S1(033016)PDB	WG	G				1057		3				X						X		006
7	EB-1(033016)-LM	WG	G				1058		3				X						X		007
8	MW-0506-S1(033016)PDB	WG	G				1104		3				X						X		008
9	MW-0507-S1(033016)PDB						1118		3				X						X		009
10	MW-0509-S1(033016)PDB						1043		3				X						X		010
11	MW-0516-S1(033016)PDB						1241		3				X						X		011
12	FD-1(033016)-LM								3				X						X		012

50141666 3/30/16 50141666

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	ARCADIS	3.30.16	1510		3/30/16	1510	2.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Mayth

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 3/30/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2044470

Section A Required Client Information:

Company: ARCADIS
Address: 132 Washington St
Indpls IN 46204
Email To: Sarah.Jonker@
Phone: 317.231.6500 Fax: 317.231.6514
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Matt Griles
Sarah Fisher
Purchase Order No.: IN000884.2016.00006
Project Name: Foams 6M Delco 5
Project Number: IN000884.2016.00006

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Donna Spyker
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0602-S1(033016)PDB	WG	G			3.30.16	0905		3				X						X		013
2	MW-0603-S1(033016)PDB	WG	G				1241		3				X						X		014
3	MW-0604-S1(033016)PDB	WG	G				1133		3				X						X		015
4	MW-0605-S1(033016)PDB	WG	G				1147		3				X						X		016
5	MW-0607-S1(033016)PDB	WG	G				1004		3				X						X		017
6	MW-0609-S1(033016)PDB	WG	G				1039		3				X						X		018
7	MW-0609-S1(033016)PDB	WG	G				0948		3				X						X		019
8	MW-0610-S1(033016)PDB	WG	G				0933		3				X						X		020
9	MW-0613-S1(033016)PDB	WG	G				1021		3				X						X		021
10	EB-2(033016)-LM	WG	G				1028		3				X						X		022
11	MW-0617-S1(033016)PDB	WG	G				1115		3				X						X		023
12	MW-0618-S1(033016)PDB	WG	G				1012		3				X						X		024

501416666 K.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	ARCADIS	3.30.16	1510		3/30/16	1510	2.6 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Martin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/30/16

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.6	Y	N	Y

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2044471

Section A Required Client Information:

Company: ARCADIS
Address: 132 E Washington St Indpls, IN 46204
Email To: Sarah.Jonker@arcadis-us.com
Phone: 317-231-6500 Fax: 317-231-6514
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: Sarah Jonker
Copy To: Matt Briles, Sarah Fisher
Purchase Order No.: IN000884.2016.00006
Project Name: Former GM Delco 5
Project Number: IN000884.2016.00006

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Donna Sparks
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0619-SL(033016)PDB	WG	G			3.30.16	1207		3				X					X		025
2	MW-0620-SL(033016)PDB						1155		3				X					X		026
3	FD-2(033016)-LM						—		3				X					X		027
4	MW-0623-SL(033016)PDB						1236		3				X					X		028
5	MW-0705-SL(033016)PDB						1032		3				X					X		029
6																				
7																				
8																				
9																				
10																				
11																				
12																				

5D44466 88 3/30/16
5D141666 VB

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	MP / ARCADIS	3.30.16	1540		3/30/16	1540

SAMPLE CONDITIONS: Temp in °C: 2.6; Received on Ice (Y/N): Y; Custody Sealed Cooler (Y/N): N; Samples Intact (Y/N): Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Luke Martin
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 3/30/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Racer Kokomo
Pace Project No.: 50140212

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-18-16
2d	Benzene ND at an estimated RL of 5 ug/L based on the MDL. grm 3-20-16
3d	MtBE ND at an estimated RL of 40 ug/L based on the MDL. grm 3-20-16
C0	Result confirmed by second analysis.
D4	Sample was diluted due to the presence of high levels of target analytes.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: TB-01(033016)-LM **Lab ID: 50141666001** Collected: 03/30/16 08:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/11/16 19:45	67-64-1	
Benzene	ND		ug/L	5.0	1		04/11/16 19:45	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/11/16 19:45	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/11/16 19:45	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/11/16 19:45	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/11/16 19:45	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/11/16 19:45	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/11/16 19:45	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/11/16 19:45	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/11/16 19:45	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/11/16 19:45	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/11/16 19:45	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/11/16 19:45	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/11/16 19:45	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/11/16 19:45	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/11/16 19:45	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 19:45	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 19:45	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 19:45	106-46-7	
Dichlorodifluoromethane	ND	J	ug/L	5.0	1		04/11/16 19:45	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/11/16 19:45	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/11/16 19:45	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/11/16 19:45	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/11/16 19:45	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/11/16 19:45	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/11/16 19:45	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/11/16 19:45	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/11/16 19:45	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/11/16 19:45	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/11/16 19:45	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/11/16 19:45	98-82-8	
Methyl acetate	ND	J	ug/L	50.0	1		04/11/16 19:45	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/11/16 19:45	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		04/11/16 19:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/11/16 19:45	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/11/16 19:45	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/11/16 19:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/11/16 19:45	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/11/16 19:45	127-18-4	
Toluene	ND		ug/L	5.0	1		04/11/16 19:45	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/11/16 19:45	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/11/16 19:45	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/11/16 19:45	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/11/16 19:45	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/11/16 19:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/11/16 19:45	76-13-1	
Vinyl chloride	ND	J	ug/L	2.0	1		04/11/16 19:45	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: TB-01(033016)-LM **Lab ID: 50141666001** Collected: 03/30/16 08:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 19:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/11/16 19:45	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/11/16 19:45	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 19:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0103-S1U(033016)PDB **Lab ID: 50141666002** Collected: 03/30/16 12:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/11/16 20:17	67-64-1	
Benzene	ND		ug/L	5.0	1		04/11/16 20:17	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/11/16 20:17	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/11/16 20:17	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/11/16 20:17	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/11/16 20:17	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/11/16 20:17	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/11/16 20:17	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/11/16 20:17	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/11/16 20:17	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/11/16 20:17	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/11/16 20:17	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/11/16 20:17	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/11/16 20:17	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/11/16 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/11/16 20:17	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:17	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:17	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:17	106-46-7	
Dichlorodifluoromethane	ND	J	ug/L	5.0	1		04/11/16 20:17	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/11/16 20:17	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/11/16 20:17	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/11/16 20:17	75-35-4	
cis-1,2-Dichloroethene	**7.6**		ug/L	5.0	1		04/11/16 20:17	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/11/16 20:17	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/11/16 20:17	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/11/16 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/11/16 20:17	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/11/16 20:17	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/11/16 20:17	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/11/16 20:17	98-82-8	
Methyl acetate	ND	J	ug/L	50.0	1		04/11/16 20:17	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/11/16 20:17	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		04/11/16 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/11/16 20:17	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/11/16 20:17	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/11/16 20:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/11/16 20:17	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/11/16 20:17	127-18-4	
Toluene	ND		ug/L	5.0	1		04/11/16 20:17	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:17	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/11/16 20:17	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/11/16 20:17	79-00-5	
Trichloroethene	**5.3**		ug/L	5.0	1		04/11/16 20:17	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/11/16 20:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/11/16 20:17	76-13-1	
Vinyl chloride	ND	J	ug/L	2.0	1		04/11/16 20:17	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0103-S1U(033016)PDB **Lab ID: 50141666002** Collected: 03/30/16 12:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 20:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		04/11/16 20:17	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/11/16 20:17	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 20:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0501-S1(033016)PDB **Lab ID: 50141666003** Collected: 03/30/16 12:24 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/11/16 20:49	67-64-1	
Benzene	ND		ug/L	5.0	1		04/11/16 20:49	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/11/16 20:49	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/11/16 20:49	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/11/16 20:49	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/11/16 20:49	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/11/16 20:49	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/11/16 20:49	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/11/16 20:49	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/11/16 20:49	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/11/16 20:49	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/11/16 20:49	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/11/16 20:49	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/11/16 20:49	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/11/16 20:49	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/11/16 20:49	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:49	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:49	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:49	106-46-7	
Dichlorodifluoromethane	ND	J	ug/L	5.0	1		04/11/16 20:49	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/11/16 20:49	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/11/16 20:49	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/11/16 20:49	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/11/16 20:49	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/11/16 20:49	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/11/16 20:49	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/11/16 20:49	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/11/16 20:49	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/11/16 20:49	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/11/16 20:49	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/11/16 20:49	98-82-8	
Methyl acetate	ND	J	ug/L	50.0	1		04/11/16 20:49	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/11/16 20:49	108-87-2	N2
Methylene Chloride	ND	J	ug/L	5.0	1		04/11/16 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/11/16 20:49	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/11/16 20:49	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/11/16 20:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/11/16 20:49	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/11/16 20:49	127-18-4	
Toluene	ND		ug/L	5.0	1		04/11/16 20:49	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/11/16 20:49	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/11/16 20:49	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/11/16 20:49	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/11/16 20:49	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/11/16 20:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/11/16 20:49	76-13-1	
Vinyl chloride	ND	J	ug/L	2.0	1		04/11/16 20:49	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0501-S1(033016)PDB **Lab ID: 50141666003** Collected: 03/30/16 12:24 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/11/16 20:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/11/16 20:49	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/11/16 20:49	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/11/16 20:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0502-S1(033016)PDB **Lab ID: 50141666004** Collected: 03/30/16 11:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 00:34	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 00:34	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 00:34	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 00:34	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 00:34	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 00:34	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 00:34	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 00:34	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 00:34	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 00:34	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 00:34	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 00:34	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 00:34	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 00:34	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 00:34	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 00:34	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 00:34	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 00:34	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 00:34	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 00:34	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 00:34	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 00:34	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 00:34	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 00:34	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 00:34	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 00:34	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 00:34	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 00:34	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 00:34	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 00:34	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 00:34	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 00:34	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 00:34	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 00:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 00:34	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 00:34	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 00:34	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 00:34	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 00:34	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 00:34	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 00:34	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 00:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 00:34	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 00:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0502-S1(033016)PDB **Lab ID: 50141666004** Collected: 03/30/16 11:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 00:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		04/12/16 00:34	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	79-116	1		04/12/16 00:34	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 00:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0503-S1(033016)PDB **Lab ID: 50141666005** Collected: 03/30/16 11:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 01:06	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 01:06	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 01:06	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 01:06	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 01:06	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 01:06	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 01:06	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 01:06	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 01:06	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 01:06	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 01:06	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 01:06	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 01:06	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 01:06	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 01:06	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 01:06	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:06	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:06	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:06	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 01:06	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:06	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:06	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:06	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:06	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:06	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 01:06	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 01:06	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 01:06	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 01:06	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 01:06	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 01:06	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 01:06	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 01:06	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 01:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 01:06	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 01:06	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 01:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 01:06	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 01:06	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 01:06	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:06	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:06	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:06	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 01:06	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 01:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 01:06	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 01:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0503-S1(033016)PDB **Lab ID: 50141666005** Collected: 03/30/16 11:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 01:06	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/12/16 01:06	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 01:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0505-S1(033016)PDB **Lab ID: 50141666006** Collected: 03/30/16 10:57 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 01:38	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 01:38	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 01:38	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 01:38	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 01:38	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 01:38	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 01:38	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 01:38	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 01:38	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 01:38	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 01:38	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 01:38	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 01:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 01:38	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 01:38	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:38	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:38	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:38	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 01:38	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:38	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:38	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:38	75-35-4	
cis-1,2-Dichloroethene	**6.8**		ug/L	5.0	1		04/12/16 01:38	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:38	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 01:38	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 01:38	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 01:38	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 01:38	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 01:38	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 01:38	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 01:38	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 01:38	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 01:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 01:38	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 01:38	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 01:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 01:38	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 01:38	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 01:38	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:38	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:38	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:38	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 01:38	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 01:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 01:38	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 01:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0505-S1(033016)PDB **Lab ID: 50141666006** Collected: 03/30/16 10:57 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 01:38	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/12/16 01:38	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 01:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-1(033016)-LM **Lab ID: 50141666007** Collected: 03/30/16 10:58 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 02:10	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 02:10	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 02:10	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 02:10	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 02:10	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 02:10	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 02:10	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 02:10	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 02:10	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 02:10	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 02:10	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 02:10	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 02:10	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 02:10	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 02:10	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:10	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:10	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:10	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 02:10	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:10	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:10	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:10	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:10	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:10	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 02:10	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 02:10	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 02:10	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 02:10	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 02:10	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 02:10	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 02:10	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 02:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 02:10	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 02:10	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 02:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 02:10	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 02:10	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 02:10	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:10	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:10	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:10	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 02:10	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 02:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 02:10	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 02:10	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-1(033016)-LM **Lab ID: 50141666007** Collected: 03/30/16 10:58 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 02:10	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 02:10	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		04/12/16 02:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0506-S1(033016)PDB **Lab ID: 50141666008** Collected: 03/30/16 11:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 02:42	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 02:42	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 02:42	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 02:42	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 02:42	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 02:42	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 02:42	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 02:42	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 02:42	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 02:42	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 02:42	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 02:42	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 02:42	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 02:42	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 02:42	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 02:42	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:42	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:42	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:42	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 02:42	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:42	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:42	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:42	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:42	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:42	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 02:42	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 02:42	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 02:42	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 02:42	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 02:42	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 02:42	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 02:42	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 02:42	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 02:42	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 02:42	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 02:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 02:42	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 02:42	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 02:42	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:42	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:42	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:42	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 02:42	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 02:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 02:42	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 02:42	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0506-S1(033016)PDB **Lab ID: 50141666008** Collected: 03/30/16 11:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 02:42	1868-53-7	
4-Bromofluorobenzene (S)	88	%.	79-116	1		04/12/16 02:42	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 02:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0507-S1(033016)PDB **Lab ID: 50141666009** Collected: 03/30/16 11:18 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 03:14	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 03:14	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 03:14	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 03:14	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 03:14	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 03:14	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 03:14	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 03:14	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 03:14	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 03:14	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 03:14	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 03:14	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 03:14	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 03:14	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 03:14	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 03:14	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:14	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:14	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:14	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 03:14	75-71-8	
1,1-Dichloroethane	**24.4**		ug/L	5.0	1		04/12/16 03:14	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 03:14	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 03:14	75-35-4	
cis-1,2-Dichloroethene	**75.8**		ug/L	5.0	1		04/12/16 03:14	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 03:14	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 03:14	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 03:14	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 03:14	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 03:14	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 03:14	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 03:14	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 03:14	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 03:14	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 03:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 03:14	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 03:14	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 03:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 03:14	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 03:14	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 03:14	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:14	120-82-1	
1,1,1-Trichloroethane	**14.7**		ug/L	5.0	1		04/12/16 03:14	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 03:14	79-00-5	
Trichloroethene	**5.1**		ug/L	5.0	1		04/12/16 03:14	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 03:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 03:14	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 03:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0507-S1(033016)PDB **Lab ID: 50141666009** Collected: 03/30/16 11:18 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 03:14	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		04/12/16 03:14	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 03:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0509-S1(033016)PDB **Lab ID: 50141666010** Collected: 03/30/16 10:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 03:46	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 03:46	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 03:46	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 03:46	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 03:46	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 03:46	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 03:46	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 03:46	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 03:46	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 03:46	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 03:46	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 03:46	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 03:46	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 03:46	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 03:46	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 03:46	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:46	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:46	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:46	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 03:46	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 03:46	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 03:46	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 03:46	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 03:46	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 03:46	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 03:46	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 03:46	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 03:46	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 03:46	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 03:46	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 03:46	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 03:46	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 03:46	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 03:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 03:46	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 03:46	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 03:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 03:46	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 03:46	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 03:46	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 03:46	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 03:46	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 03:46	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 03:46	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 03:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 03:46	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 03:46	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0509-S1(033016)PDB **Lab ID: 50141666010** Collected: 03/30/16 10:45 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 03:46	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 03:46	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		04/12/16 03:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0516-S1(033016)PDB **Lab ID: 50141666011** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 04:18	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 04:18	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 04:18	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 04:18	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 04:18	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 04:18	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 04:18	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 04:18	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 04:18	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 04:18	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 04:18	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 04:18	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 04:18	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 04:18	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 04:18	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:18	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:18	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:18	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 04:18	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:18	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:18	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:18	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:18	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:18	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 04:18	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 04:18	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 04:18	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 04:18	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 04:18	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 04:18	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 04:18	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 04:18	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 04:18	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 04:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 04:18	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 04:18	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 04:18	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:18	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:18	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:18	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 04:18	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 04:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 04:18	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 04:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0516-S1(033016)PDB **Lab ID: 50141666011** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 04:18	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 04:18	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 04:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-1(033016)-LM **Lab ID: 50141666012** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 04:50	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 04:50	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 04:50	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 04:50	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 04:50	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 04:50	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 04:50	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 04:50	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 04:50	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 04:50	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 04:50	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 04:50	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 04:50	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 04:50	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 04:50	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 04:50	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:50	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:50	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:50	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 04:50	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:50	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:50	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:50	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:50	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:50	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 04:50	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 04:50	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 04:50	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 04:50	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 04:50	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 04:50	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 04:50	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 04:50	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 04:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 04:50	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 04:50	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 04:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 04:50	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 04:50	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 04:50	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:50	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:50	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:50	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 04:50	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 04:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 04:50	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 04:50	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-1(033016)-LM **Lab ID: 50141666012** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 04:50	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 04:50	460-00-4	
Toluene-d8 (S)	96	%.	86-110	1		04/12/16 04:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0602-S1(033016)PDB **Lab ID: 50141666013** Collected: 03/30/16 09:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 05:22	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 05:22	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 05:22	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 05:22	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 05:22	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 05:22	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 05:22	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 05:22	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 05:22	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 05:22	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 05:22	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 05:22	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 05:22	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 05:22	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 05:22	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 05:22	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:22	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:22	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:22	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 05:22	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 05:22	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 05:22	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 05:22	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 05:22	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 05:22	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 05:22	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 05:22	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 05:22	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 05:22	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 05:22	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 05:22	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 05:22	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 05:22	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 05:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 05:22	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 05:22	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 05:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 05:22	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 05:22	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 05:22	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:22	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 05:22	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 05:22	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 05:22	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 05:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 05:22	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 05:22	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0602-S1(033016)PDB **Lab ID: 50141666013** Collected: 03/30/16 09:25 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 05:22	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 05:22	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 05:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0603-S1(033016)PDB **Lab ID: 50141666014** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 00:50	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 00:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 00:50	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 00:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 00:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 00:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 00:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 00:50	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 00:50	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 00:50	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 00:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 00:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 00:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 00:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 00:50	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 00:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 00:50	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 00:50	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 00:50	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 00:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 00:50	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 00:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 00:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 00:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 00:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 00:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 00:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 00:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 00:50	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 00:50	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0603-S1(033016)PDB **Lab ID: 50141666014** Collected: 03/30/16 12:41 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 00:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 00:50	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 00:50	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 00:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0604-S1(033016)PDB **Lab ID: 50141666015** Collected: 03/30/16 11:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 05:54	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 05:54	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 05:54	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 05:54	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 05:54	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 05:54	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 05:54	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 05:54	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 05:54	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 05:54	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 05:54	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 05:54	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 05:54	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 05:54	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 05:54	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 05:54	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:54	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:54	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:54	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 05:54	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 05:54	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 05:54	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 05:54	75-35-4	
cis-1,2-Dichloroethene	**1030**	D	ug/L	50.0	10		04/12/16 06:26	156-59-2	
trans-1,2-Dichloroethene	**97.2**		ug/L	5.0	1		04/12/16 05:54	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 05:54	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 05:54	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 05:54	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 05:54	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 05:54	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 05:54	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 05:54	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 05:54	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 05:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 05:54	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 05:54	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 05:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 05:54	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 05:54	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 05:54	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 05:54	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 05:54	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 05:54	79-00-5	
Trichloroethene	**3340**	D	ug/L	125	25		04/13/16 01:48	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 05:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 05:54	76-13-1	
Vinyl chloride	**37.7**		ug/L	2.0	1		04/12/16 05:54	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0604-S1(033016)PDB **Lab ID: 50141666015** Collected: 03/30/16 11:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		04/12/16 05:54	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 05:54	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 05:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0605-S1(033016)PDB **Lab ID: 50141666016** Collected: 03/30/16 11:47 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 06:58	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 06:58	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 06:58	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 06:58	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 06:58	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 06:58	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 06:58	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 06:58	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 06:58	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 06:58	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 06:58	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 06:58	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 06:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 06:58	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 06:58	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 06:58	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:58	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:58	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:58	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 06:58	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 06:58	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 06:58	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 06:58	75-35-4	
cis-1,2-Dichloroethene	**14.7**		ug/L	5.0	1		04/12/16 06:58	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 06:58	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 06:58	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 06:58	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 06:58	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 06:58	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 06:58	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 06:58	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 06:58	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 06:58	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 06:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 06:58	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 06:58	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 06:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 06:58	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 06:58	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 06:58	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:58	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 06:58	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 06:58	79-00-5	
Trichloroethene	**742**	D	ug/L	50.0	10		04/12/16 07:30	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 06:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 06:58	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 06:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0605-S1(033016)PDB **Lab ID: 50141666016** Collected: 03/30/16 11:47 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 06:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 06:58	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 06:58	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 06:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0607-S1(033016)PDB **Lab ID: 50141666017** Collected: 03/30/16 10:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 01:22	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 01:22	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 01:22	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 01:22	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 01:22	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 01:22	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 01:22	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 01:22	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 01:22	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 01:22	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 01:22	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 01:22	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 01:22	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 01:22	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 01:22	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 01:22	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:22	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:22	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:22	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 01:22	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:22	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 01:22	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:22	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:22	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 01:22	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 01:22	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 01:22	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 01:22	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 01:22	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 01:22	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 01:22	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 01:22	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 01:22	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 01:22	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 01:22	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 01:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 01:22	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 01:22	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 01:22	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 01:22	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:22	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 01:22	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 01:22	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 01:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 01:22	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 01:22	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0607-S1(033016)PDB **Lab ID: 50141666017** Collected: 03/30/16 10:04 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 01:22	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 01:22	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		04/12/16 01:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0608-S1(033016)PDB **Lab ID: 50141666018** Collected: 03/30/16 10:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND		ug/L	100	1		04/12/16 08:02	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 08:02	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 08:02	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 08:02	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 08:02	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 08:02	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 08:02	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 08:02	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 08:02	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 08:02	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 08:02	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 08:02	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 08:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 08:02	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 08:02	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 08:02	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:02	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:02	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:02	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 08:02	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 08:02	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 08:02	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 08:02	75-35-4	
cis-1,2-Dichloroethene	**97.8**		ug/L	5.0	1		04/12/16 08:02	156-59-2	
trans-1,2-Dichloroethene	**9.3**		ug/L	5.0	1		04/12/16 08:02	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 08:02	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 08:02	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 08:02	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 08:02	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 08:02	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 08:02	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 08:02	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 08:02	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 08:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 08:02	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 08:02	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 08:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 08:02	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 08:02	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 08:02	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:02	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 08:02	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 08:02	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 08:02	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 08:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 08:02	76-13-1	
Vinyl chloride	**2.6**		ug/L	2.0	1		04/12/16 08:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0608-S1(033016)PDB **Lab ID: 50141666018** Collected: 03/30/16 10:39 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 08:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 08:02	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 08:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 08:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0609-S1(033016)PDB **Lab ID: 50141666019** Collected: 03/30/16 09:48 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 06:10	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 06:10	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 06:10	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 06:10	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 06:10	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 06:10	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 06:10	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 06:10	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 06:10	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 06:10	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 06:10	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 06:10	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 06:10	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 06:10	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 06:10	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 06:10	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:10	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:10	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:10	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 06:10	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 06:10	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 06:10	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 06:10	75-35-4	
cis-1,2-Dichloroethene	**18.6**		ug/L	5.0	1		04/12/16 06:10	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 06:10	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 06:10	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 06:10	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 06:10	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 06:10	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 06:10	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 06:10	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 06:10	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 06:10	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 06:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 06:10	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 06:10	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 06:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 06:10	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 06:10	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 06:10	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 06:10	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 06:10	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 06:10	79-00-5	
Trichloroethene	**7.9**		ug/L	5.0	1		04/12/16 06:10	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 06:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 06:10	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 06:10	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0609-S1(033016)PDB **Lab ID: 50141666019** Collected: 03/30/16 09:48 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 06:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 06:10	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 06:10	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 06:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0610-S1(033016)PDB **Lab ID: 50141666020** Collected: 03/30/16 09:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 01:54	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 01:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 01:54	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 01:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 01:54	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 01:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 01:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 01:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 01:54	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 01:54	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 01:54	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 01:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 01:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 01:54	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 01:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 01:54	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 01:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 01:54	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 01:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 01:54	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 01:54	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 01:54	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 01:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 01:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 01:54	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 01:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 01:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 01:54	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 01:54	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 01:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 01:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 01:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 01:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 01:54	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 01:54	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0610-S1(033016)PDB **Lab ID: 50141666020** Collected: 03/30/16 09:33 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 01:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	84-118	1		04/12/16 01:54	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 01:54	460-00-4	
Toluene-d8 (S)	103	%.	86-110	1		04/12/16 01:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0613-S1(033016)PDB **Lab ID: 50141666021** Collected: 03/30/16 10:21 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 02:26	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 02:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 02:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/12/16 02:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 02:26	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 02:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 02:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 02:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 02:26	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 02:26	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 02:26	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 02:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 02:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 02:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 02:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 02:26	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 02:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 02:26	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 02:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 02:26	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 02:26	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 02:26	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 02:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 02:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 02:26	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 02:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 02:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 02:26	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 02:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 02:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 02:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 02:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 02:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 02:26	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 02:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0613-S1(033016)PDB **Lab ID: 50141666021** Collected: 03/30/16 10:21 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 02:26	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 02:26	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		04/12/16 02:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-2(033016)-LM **Lab ID: 50141666022** Collected: 03/30/16 10:28 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 02:58	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 02:58	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 02:58	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 02:58	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 02:58	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 02:58	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 02:58	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 02:58	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 02:58	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 02:58	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 02:58	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 02:58	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 02:58	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 02:58	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 02:58	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 02:58	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:58	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:58	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:58	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 02:58	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:58	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 02:58	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:58	75-35-4	
cis-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:58	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 02:58	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 02:58	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 02:58	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 02:58	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 02:58	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 02:58	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 02:58	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 02:58	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 02:58	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 02:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 02:58	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 02:58	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 02:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 02:58	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 02:58	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 02:58	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 02:58	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:58	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 02:58	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 02:58	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 02:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 02:58	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 02:58	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: EB-2(033016)-LM **Lab ID: 50141666022** Collected: 03/30/16 10:28 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 02:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 02:58	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/12/16 02:58	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 02:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0617-S1(033016)PDB **Lab ID: 50141666023** Collected: 03/30/16 11:15 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 07:14	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 07:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 07:14	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 07:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 07:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 07:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 07:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 07:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 07:14	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 07:14	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 07:14	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 07:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 07:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 07:14	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 07:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 07:14	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 07:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 07:14	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 07:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 07:14	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 07:14	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 07:14	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 07:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 07:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 07:14	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 07:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 07:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 07:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 07:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 07:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 07:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 07:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 07:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 07:14	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 07:14	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0617-S1(033016)PDB **Lab ID: 50141666023** Collected: 03/30/16 11:15 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 07:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	84-118	1		04/12/16 07:14	1868-53-7	
4-Bromofluorobenzene (S)	83	%.	79-116	1		04/12/16 07:14	460-00-4	
Toluene-d8 (S)	103	%.	86-110	1		04/12/16 07:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0618-S1(033016)PDB **Lab ID: 50141666024** Collected: 03/30/16 10:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 03:30	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 03:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 03:30	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 03:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 03:30	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 03:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 03:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 03:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 03:30	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 03:30	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 03:30	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 03:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 03:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 03:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 03:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 03:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 03:30	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 03:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 03:30	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 03:30	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 03:30	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 03:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 03:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 03:30	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 03:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 03:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 03:30	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 03:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 03:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 03:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 03:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 03:30	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 03:30	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0618-S1(033016)PDB **Lab ID: 50141666024** Collected: 03/30/16 10:12 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 03:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		04/12/16 03:30	1868-53-7	
4-Bromofluorobenzene (S)	84	%.	79-116	1		04/12/16 03:30	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 03:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0619-S1(033016)PDB **Lab ID: 50141666025** Collected: 03/30/16 12:07 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 04:02	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 04:02	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 04:02	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 04:02	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 04:02	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 04:02	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 04:02	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 04:02	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 04:02	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 04:02	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 04:02	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 04:02	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 04:02	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 04:02	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 04:02	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:02	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:02	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:02	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 04:02	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:02	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:02	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:02	75-35-4	
cis-1,2-Dichloroethene	**23.7**		ug/L	5.0	1		04/12/16 04:02	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:02	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 04:02	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 04:02	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 04:02	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 04:02	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 04:02	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 04:02	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 04:02	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 04:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 04:02	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 04:02	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 04:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 04:02	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 04:02	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 04:02	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:02	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:02	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:02	79-00-5	
Trichloroethene	ND		ug/L	5.0	1		04/12/16 04:02	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 04:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 04:02	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 04:02	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0619-S1(033016)PDB **Lab ID: 50141666025** Collected: 03/30/16 12:07 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 04:02	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 04:02	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		04/12/16 04:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0620-S1(033016)PDB **Lab ID: 50141666026** Collected: 03/30/16 11:55 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 08:18	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 08:18	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 08:18	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 08:18	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 08:18	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 08:18	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 08:18	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 08:18	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 08:18	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 08:18	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 08:18	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 08:18	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 08:18	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 08:18	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 08:18	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 08:18	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:18	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:18	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:18	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 08:18	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 08:18	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 08:18	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 08:18	75-35-4	
cis-1,2-Dichloroethene	**6.0**		ug/L	5.0	1		04/12/16 08:18	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 08:18	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 08:18	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 08:18	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 08:18	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 08:18	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 08:18	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 08:18	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 08:18	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 08:18	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 08:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 08:18	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 08:18	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 08:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 08:18	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 08:18	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 08:18	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 08:18	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 08:18	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 08:18	79-00-5	
Trichloroethene	**4690**	D	ug/L	250	50		04/13/16 02:20	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 08:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 08:18	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 08:18	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0620-S1(033016)PDB **Lab ID: 50141666026** Collected: 03/30/16 11:55 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 08:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		04/12/16 08:18	1868-53-7	
4-Bromofluorobenzene (S)	82	%.	79-116	1		04/12/16 08:18	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 08:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-2(033016)-LM **Lab ID: 50141666027** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	J	ug/L	100	1		04/12/16 04:34	67-64-1	
Benzene	ND		ug/L	5.0	1		04/12/16 04:34	71-43-2	
Bromodichloromethane	ND		ug/L	5.0	1		04/12/16 04:34	75-27-4	
Bromoform	ND		ug/L	5.0	1		04/12/16 04:34	75-25-2	
Bromomethane	ND	J	ug/L	5.0	1		04/12/16 04:34	74-83-9	
2-Butanone (MEK)	ND		ug/L	25.0	1		04/12/16 04:34	78-93-3	
Carbon disulfide	ND		ug/L	10.0	1		04/12/16 04:34	75-15-0	
Carbon tetrachloride	ND		ug/L	5.0	1		04/12/16 04:34	56-23-5	
Chlorobenzene	ND		ug/L	5.0	1		04/12/16 04:34	108-90-7	
Chloroethane	ND	J	ug/L	5.0	1		04/12/16 04:34	75-00-3	
Chloroform	ND		ug/L	5.0	1		04/12/16 04:34	67-66-3	
Chloromethane	ND	J	ug/L	5.0	1		04/12/16 04:34	74-87-3	
Cyclohexane	ND		ug/L	100	1		04/12/16 04:34	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	J	ug/L	10.0	1		04/12/16 04:34	96-12-8	
Dibromochloromethane	ND		ug/L	5.0	1		04/12/16 04:34	124-48-1	
1,2-Dibromoethane (EDB)	ND		ug/L	5.0	1		04/12/16 04:34	106-93-4	
1,2-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:34	95-50-1	
1,3-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:34	541-73-1	
1,4-Dichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:34	106-46-7	
Dichlorodifluoromethane	ND		ug/L	5.0	1		04/12/16 04:34	75-71-8	
1,1-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:34	75-34-3	
1,2-Dichloroethane	ND		ug/L	5.0	1		04/12/16 04:34	107-06-2	
1,1-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:34	75-35-4	
cis-1,2-Dichloroethene	**5.9**		ug/L	5.0	1		04/12/16 04:34	156-59-2	
trans-1,2-Dichloroethene	ND		ug/L	5.0	1		04/12/16 04:34	156-60-5	
1,2-Dichloropropane	ND		ug/L	5.0	1		04/12/16 04:34	78-87-5	
cis-1,3-Dichloropropene	ND		ug/L	5.0	1		04/12/16 04:34	10061-01-5	
trans-1,3-Dichloropropene	ND	J	ug/L	5.0	1		04/12/16 04:34	10061-02-6	
Ethylbenzene	ND		ug/L	5.0	1		04/12/16 04:34	100-41-4	
2-Hexanone	ND		ug/L	25.0	1		04/12/16 04:34	591-78-6	
Isopropylbenzene (Cumene)	ND		ug/L	5.0	1		04/12/16 04:34	98-82-8	
Methyl acetate	ND		ug/L	50.0	1		04/12/16 04:34	79-20-9	N2
Methylcyclohexane	ND		ug/L	50.0	1		04/12/16 04:34	108-87-2	N2
Methylene Chloride	ND		ug/L	5.0	1		04/12/16 04:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND		ug/L	25.0	1		04/12/16 04:34	108-10-1	
Methyl-tert-butyl ether	ND		ug/L	4.0	1		04/12/16 04:34	1634-04-4	
Styrene	ND		ug/L	5.0	1		04/12/16 04:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	1		04/12/16 04:34	79-34-5	
Tetrachloroethene	ND		ug/L	5.0	1		04/12/16 04:34	127-18-4	
Toluene	ND		ug/L	5.0	1		04/12/16 04:34	108-88-3	
1,2,4-Trichlorobenzene	ND		ug/L	5.0	1		04/12/16 04:34	120-82-1	
1,1,1-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:34	71-55-6	
1,1,2-Trichloroethane	ND		ug/L	5.0	1		04/12/16 04:34	79-00-5	
Trichloroethene	**4410**	D	ug/L	250	50		04/13/16 02:52	79-01-6	
Trichlorofluoromethane	ND		ug/L	5.0	1		04/12/16 04:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND		ug/L	5.0	1		04/12/16 04:34	76-13-1	
Vinyl chloride	ND		ug/L	2.0	1		04/12/16 04:34	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: FD-2(033016)-LM **Lab ID: 50141666027** Collected: 03/30/16 08:00 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 04:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		04/12/16 04:34	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 04:34	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 04:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0623-S1(033016)PDB **Lab ID: 50141666028** Collected: 03/30/16 12:36 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 05:06	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:06	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 05:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 05:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:06	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 05:06	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:06	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 05:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:06	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 05:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:06	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:06	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:06	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:06	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:06	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:06	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/12/16 05:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:06	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		04/12/16 05:06	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0623-S1(033016)PDB **Lab ID: 50141666028** Collected: 03/30/16 12:36 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	84-118	1		04/12/16 05:06	1868-53-7	
4-Bromofluorobenzene (S)	87	%.	79-116	1		04/12/16 05:06	460-00-4	
Toluene-d8 (S)	102	%.	86-110	1		04/12/16 05:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0705-S1(033016)PDB **Lab ID: 50141666029** Collected: 03/30/16 10:32 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND J	ug/L	100	1		04/12/16 05:38	67-64-1	
Benzene	ND	ug/L	5.0	1		04/12/16 05:38	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/12/16 05:38	75-25-2	
Bromomethane	ND J	ug/L	5.0	1		04/12/16 05:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/12/16 05:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		04/12/16 05:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/12/16 05:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	108-90-7	
Chloroethane	ND J	ug/L	5.0	1		04/12/16 05:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/12/16 05:38	67-66-3	
Chloromethane	ND J	ug/L	5.0	1		04/12/16 05:38	74-87-3	
Cyclohexane	ND	ug/L	100	1		04/12/16 05:38	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND J	ug/L	10.0	1		04/12/16 05:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		04/12/16 05:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/12/16 05:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/12/16 05:38	75-35-4	
cis-1,2-Dichloroethene	**46.5**	ug/L	5.0	1		04/12/16 05:38	156-59-2	
trans-1,2-Dichloroethene	**11.6**	ug/L	5.0	1		04/12/16 05:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/12/16 05:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/12/16 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND J	ug/L	5.0	1		04/12/16 05:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/12/16 05:38	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		04/12/16 05:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/12/16 05:38	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		04/12/16 05:38	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		04/12/16 05:38	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		04/12/16 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/12/16 05:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/12/16 05:38	1634-04-4	
Styrene	ND	ug/L	5.0	1		04/12/16 05:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/12/16 05:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/12/16 05:38	127-18-4	
Toluene	ND	ug/L	5.0	1		04/12/16 05:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/12/16 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/12/16 05:38	79-00-5	
Trichloroethene	**135**	ug/L	5.0	1		04/12/16 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/12/16 05:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		04/12/16 05:38	76-13-1	
Vinyl chloride	**3.4**	ug/L	2.0	1		04/12/16 05:38	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Former GM Delco 5
Pace Project No.: 50141666

Sample: MW-0705-S1(033016)PDB **Lab ID: 50141666029** Collected: 03/30/16 10:32 Received: 03/30/16 15:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		04/12/16 05:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	84-118	1		04/12/16 05:38	1868-53-7	
4-Bromofluorobenzene (S)	85	%.	79-116	1		04/12/16 05:38	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		04/12/16 05:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50143942

Table Of Contents

Project Overview

Final Report with COC/SCUR 1

Organic

GC-MS Volatiles

Surrogate Recovery Summary (Form 2) 19

Laboratory Control Spike/Laboratory Control Spike Duplicate Summary (Form 3) 20

Method Blank Association Summary (Form 4) 21

Instrument Performance Check (Form 5) 22

Internal Standard Area & Retention Time Summary (Form8) 24

Analytical Results with Raw Data (Form 1) 25

Initial Calibration (Form 6) 50

Raw Data for Initial Calibration Standards 56

Continuing Calibration (Form 7) 297

Raw Data for Continuing Calibration Standards 299

Raw Data QC 401

Instrument Run Log 447

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 12, 2016

Mr. Matt Griles
Arcadis U.S., Inc.
132 E. Washington
Suite 600
Indianapolis, IN 46204

RE: Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Dear Mr. Griles:
Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna S. Spyker

Donna Spyker
donna.spyker@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50143942001	**MW-0611-S1 (042916) (Low Flow)**	Water	04/29/16 09:45	04/29/16 12:15
50143942002	**WC-1-LF (042916)**	Water	04/29/16 10:15	04/29/16 12:15
50143942004	**Trip Blank**	Water	04/29/16 08:00	04/29/16 12:15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50143942001	**MW-0611-S1 (042916) (Low Flow)**	EPA 8260	ALA	51
50143942002	**WC-1-LF (042916)**	EPA 8260	ALA	51
50143942004	**Trip Blank**	EPA 8260	ALA	51

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50143942002	**WC-1-LF (042916)**					
EPA 8260	Acetone	30.6J	ug/L	100	05/10/16 22:26	
50143942004	**Trip Blank**					
EPA 8260	Carbon disulfide	1.6J	ug/L	10.0	05/10/16 23:03	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: MW-0611-S1 (042916) (Low Flow) **Lab ID: 50143942001** Collected: 04/29/16 09:45 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/10/16 21:48	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 21:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 21:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 21:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/16 21:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/16 21:48	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/10/16 21:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 21:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/16 21:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 21:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/16 21:48	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 21:48	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 21:48	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 21:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 21:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/16 21:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 21:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 21:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 21:48	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 21:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 21:48	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 21:48	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 21:48	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 21:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 21:48	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 21:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 21:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 21:48	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 21:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/16 21:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 21:48	76-13-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: MW-0611-S1 (042916) (Low Flow) **Lab ID: 50143942001** Collected: 04/29/16 09:45 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/L	2.0	1		05/10/16 21:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 21:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	84-118	1		05/10/16 21:48	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		05/10/16 21:48	460-00-4	
Toluene-d8 (S)	93	%.	86-110	1		05/10/16 21:48	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: WC-1-LF (042916) **Lab ID: 50143942002** Collected: 04/29/16 10:15 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**30.6J**	ug/L	100	1		05/10/16 22:26	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 22:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 22:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 22:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/16 22:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/16 22:26	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/10/16 22:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 22:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/16 22:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 22:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/16 22:26	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 22:26	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 22:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 22:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 22:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/16 22:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 22:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 22:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 22:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 22:26	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 22:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 22:26	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 22:26	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 22:26	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 22:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 22:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 22:26	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 22:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 22:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 22:26	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 22:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/16 22:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 22:26	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/10/16 22:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: WC-1-LF (042916) **Lab ID: 50143942002** Collected: 04/29/16 10:15 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 22:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	84-118	1		05/10/16 22:26	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	1		05/10/16 22:26	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		05/10/16 22:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: Trip Blank **Lab ID: 50143942004** Collected: 04/29/16 08:00 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		05/10/16 23:03	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 23:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 23:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 23:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/10/16 23:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/10/16 23:03	78-93-3	
Carbon disulfide	**1.6J**	ug/L	10.0	1		05/10/16 23:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 23:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/10/16 23:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 23:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/10/16 23:03	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 23:03	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 23:03	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 23:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/10/16 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 23:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 23:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 23:03	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 23:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 23:03	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 23:03	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 23:03	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 23:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 23:03	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 23:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 23:03	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 23:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/10/16 23:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 23:03	76-13-1	
Vinyl chloride	ND	ug/L	2.0	1		05/10/16 23:03	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: Trip Blank **Lab ID: 50143942004** Collected: 04/29/16 08:00 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 23:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	84-118	1		05/10/16 23:03	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-116	1		05/10/16 23:03	460-00-4	
Toluene-d8 (S)	95	%.	86-110	1		05/10/16 23:03	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

QC Batch: MSV/90006 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50143942001, 50143942002, 50143942004

METHOD BLANK: 1536248 Matrix: Water
Associated Lab Samples: 50143942001, 50143942002, 50143942004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/10/16 16:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/10/16 16:10	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/10/16 16:10	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	05/10/16 16:10	
1,1-Dichloroethane	ug/L	ND	5.0	05/10/16 16:10	
1,1-Dichloroethene	ug/L	ND	5.0	05/10/16 16:10	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/10/16 16:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	10.0	05/10/16 16:10	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/10/16 16:10	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/10/16 16:10	
1,2-Dichloroethane	ug/L	ND	5.0	05/10/16 16:10	
1,2-Dichloropropane	ug/L	ND	5.0	05/10/16 16:10	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/10/16 16:10	
1,4-Dichlorobenzene	ug/L	0.30J	5.0	05/10/16 16:10	
2-Butanone (MEK)	ug/L	ND	25.0	05/10/16 16:10	
2-Hexanone	ug/L	ND	25.0	05/10/16 16:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/10/16 16:10	
Acetone	ug/L	ND	100	05/10/16 16:10	
Benzene	ug/L	ND	5.0	05/10/16 16:10	
Bromodichloromethane	ug/L	ND	5.0	05/10/16 16:10	
Bromoform	ug/L	ND	5.0	05/10/16 16:10	
Bromomethane	ug/L	ND	5.0	05/10/16 16:10	
Carbon disulfide	ug/L	ND	10.0	05/10/16 16:10	
Carbon tetrachloride	ug/L	ND	5.0	05/10/16 16:10	
Chlorobenzene	ug/L	ND	5.0	05/10/16 16:10	
Chloroethane	ug/L	ND	5.0	05/10/16 16:10	
Chloroform	ug/L	ND	5.0	05/10/16 16:10	
Chloromethane	ug/L	ND	5.0	05/10/16 16:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/10/16 16:10	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/10/16 16:10	
Cyclohexane	ug/L	ND	100	05/10/16 16:10	N2
Dibromochloromethane	ug/L	ND	5.0	05/10/16 16:10	
Dichlorodifluoromethane	ug/L	ND	5.0	05/10/16 16:10	
Ethylbenzene	ug/L	ND	5.0	05/10/16 16:10	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/10/16 16:10	
Methyl acetate	ug/L	ND	50.0	05/10/16 16:10	N2
Methyl-tert-butyl ether	ug/L	ND	4.0	05/10/16 16:10	
Methylcyclohexane	ug/L	ND	50.0	05/10/16 16:10	N2
Methylene Chloride	ug/L	ND	5.0	05/10/16 16:10	
Styrene	ug/L	ND	5.0	05/10/16 16:10	
Tetrachloroethene	ug/L	ND	5.0	05/10/16 16:10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

METHOD BLANK: 1536248 Matrix: Water
Associated Lab Samples: 50143942001, 50143942002, 50143942004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	05/10/16 16:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/10/16 16:10	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/10/16 16:10	
Trichloroethene	ug/L	ND	5.0	05/10/16 16:10	
Trichlorofluoromethane	ug/L	ND	5.0	05/10/16 16:10	
Vinyl chloride	ug/L	ND	2.0	05/10/16 16:10	
Xylene (Total)	ug/L	ND	10.0	05/10/16 16:10	
4-Bromofluorobenzene (S)	%.	102	79-116	05/10/16 16:10	
Dibromofluoromethane (S)	%.	112	84-118	05/10/16 16:10	
Toluene-d8 (S)	%.	98	86-110	05/10/16 16:10	

LABORATORY CONTROL SAMPLE: 1536249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.3	79	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	43.2	86	72-124	
1,1-Dichloroethene	ug/L	50	46.0	92	69-127	
1,2-Dichloropropane	ug/L	50	42.1	84	77-124	
Benzene	ug/L	50	43.3	87	76-122	
Chlorobenzene	ug/L	50	44.4	89	76-118	
Chloroform	ug/L	50	40.0	80	70-119	
cis-1,2-Dichloroethene	ug/L	50	40.4	81	74-120	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	71-134	
Ethylbenzene	ug/L	50	45.1	90	75-123	
Isopropylbenzene (Cumene)	ug/L	50	45.8	92	84-134	
Methyl-tert-butyl ether	ug/L	50	46.6	93	65-131	
Tetrachloroethene	ug/L	50	46.8	94	69-119	
Toluene	ug/L	50	43.7	87	74-122	
trans-1,2-Dichloroethene	ug/L	50	42.1	84	72-122	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	66-135	
Trichloroethene	ug/L	50	41.7	83	75-123	
Vinyl chloride	ug/L	50	51.5	103	61-147	
Xylene (Total)	ug/L	150	134	89	75-127	
4-Bromofluorobenzene (S)	%.			98	79-116	
Dibromofluoromethane (S)	%.			93	84-118	
Toluene-d8 (S)	%.			100	86-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50143942001	**MW-0611-S1 (042916) (Low Flow)**	EPA 8260	MSV/90006		
50143942002	**WC-1-LF (042916)**	EPA 8260	MSV/90006		
50143942004	**Trip Blank**	EPA 8260	MSV/90006		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

JAS

Page: of 2053671

Section A Required Client Information:

Company: ARCADIS
Address: 132 E. WASHINGTON ST INDIANAPOLIS, IN 46204
Email To: matthew.griles@arcadis.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MATT GRILES
Copy To:
Purchase Order No.:
Project Name: RACER TRUST, KOKOMO
Project Number: IN000884.2016

Section C Invoice Information:

Attention: ACCOUNTS PAY
Company Name:
Address: HIGHLANDS RANCH CO
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0611-SL(042916)(LOW FLOW)		G			4.29.16	0945		3				X					X		001
2	MC-1-LF(042916)		G			4.29.16	1015		3				X					X		002
3	TRIP Blank					4/29/16			3				✓					✓		
4	added to coc per matt 5/1/16																			
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

5014394 2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME (military)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]/ARCADIS	4/29/16	12:15	Marcia Bennett/Pace	4/29/16	12:15	0.4c	Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LAUREN FEE
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/29/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client w/ice ORIGINAL

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Arcadis Project # 6143942

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other ____

Tracking #: ____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer: ____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other ____

Thermometer 1 2 3 4 5 6 A B C D E F Type of ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 0.4°C/0.4°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C Comments: Date and Initials of person examining contents: MB 4/29/16

Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☑No ☐N/A	9. see line #15 MB
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	NA	11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)	NA	12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No NA	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15 trip blank rec'd but not on COC MB
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Maddie Date/Time: 5/1/16

Comments/ Resolution: email - add trip

Project Manager Review: [signature] Date: 5/1/16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: Arcadis

COC PAGE 1 of ___
COC ID# 20536711

Project # 50193942

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	pH <2	pH >9	pH>12
1	3																			
2	3																			
3	3		Trip blank MB 4/29/16																	
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass.	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No.: 50143942 Contract: Racer Trust, Kokomo

Instrument ID: 50MV6A

LAB SAMPLE ID	SAMPLE NAME	BFB	DIBF	TOL8
1536248	1536248BLANK	102	112	98
1536249	1536249LCS	98	93	100
50143942001	MW-0611-S1 (042916) (Low	105	115	93
50143942002	WC-1-LF (042916)	104	115	97
50143942004	Trip Blank	102	112	95

	QC LIMITS
(BFB) = 4-Bromofluorobenzene (S)	(79-116)
(DIBF) = Dibromofluoromethane (S)	(84-118)
(TOL8) = Toluene-d8 (S)	(86-110)

* Values outside of QC Limits

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana
Lab Sample ID: 1536249LCS
Date Extracted: 05/10/2016
Date Analyzed (1): 05/10/2016
Instrument: 50MV6A
LCS Lot No: 120044
Lab File ID: A051016.B\A02LCS.D
SDG No.: 50143942

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Benzene	50.0	43.3	87	76-122
Chlorobenzene	50.0	44.4	89	76-118
Chloroform	50.0	40.0	80	70-119
1,1-Dichloroethene	50.0	46.0	92	69-127
cis-1,2-Dichloroethene	50.0	40.4	81	74-120
trans-1,2-Dichloroethene	50.0	42.1	84	72-122
1,2-Dichloropropane	50.0	42.1	84	77-124
cis-1,3-Dichloropropene	50.0	48.6	97	71-134
trans-1,3-Dichloropropene	50.0	47.1	94	66-135
Ethylbenzene	50.0	45.1	90	75-123
Isopropylbenzene (Cumene)	50.0	45.8	92	84-134
Methyl-tert-butyl ether	50.0	46.6	93	65-131
1,1,2,2-Tetrachloroethane	50.0	43.2	86	72-124
Tetrachloroethene	50.0	46.8	94	69-119
Toluene	50.0	43.7	87	74-122
1,1,1-Trichloroethane	50.0	39.3	79	72-123
Trichloroethene	50.0	41.7	83	75-123
Vinyl chloride	50.0	51.5	103	61-147
Xylene (Total)	150	134	89	75-127

Spike Recovery: 0 out of 19 outside limits.

05/16/2016 10:43

SAMPLE NO.

1536248BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50143942 Contract: Racer Trust, Kokomo

Instrument ID: 50MV6A Matrix: Water Lab Sample ID: 1536248

Lab File ID: A051016.B\A03MB.D Date Analyzed: 05/10/2016 Time: 16:10

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1536249LCS	1536249	A051016.B\A02LCS.D	05/10/2016 15:32
MW-0611-S1 (042916) (Low	50143942001	A051016.B\A12.D	05/10/2016 21:48
WC-1-LF (042916)	50143942002	A051016.B\A13.D	05/10/2016 22:26
Trip Blank	50143942004	A051016.B\A14.D	05/10/2016 23:03

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50143942 Contract: Racer Trust, Kokomo
Lab File ID: A050916CAL.B\A00BFB.D BFB Injection Date: 05/09/2016
Instrument ID: 50MV6A BFB Injection Time: 18:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.70	
75	30.00 - 60.00% of mass 95	50.30	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.59	
173	Less than 2.00% of mass 174	0.60	(0.63)[1]
174	50.00 - 100.00% of mass 95	95.52	
175	5.00 - 9.00% of mass 174	7.54	(7.90)[1]
176	95.00 - 101.00% of mass 174	93.51	(97.90)[1]
177	5.00 - 9.00% of mass 176	5.97	(6.39)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9691323CAL1	9691323CAL1	A050916CAL.B\A01.D	05/09/2016	19:37
9691314CAL2	9691314CAL2	A050916CAL.B\A02.D	05/09/2016	20:15
9691322CAL3	9691322CAL3	A050916CAL.B\A03.D	05/09/2016	20:52
9691317CAL4	9691317CAL4	A050916CAL.B\A04.D	05/09/2016	21:30
9691316CAL5	9691316CAL5	A050916CAL.B\A05.D	05/09/2016	22:07
9691319CAL6	9691319CAL6	A050916CAL.B\A06.D	05/09/2016	22:45
9691315CAL7	9691315CAL7	A050916CAL.B\A07.D	05/09/2016	23:22
9691321CAL8	9691321CAL8	A050916CAL.B\A08.D	05/10/2016	00:00
9691318ICV	9691318ICV	A050916CAL.B\A10ICV.D	05/10/2016	01:15

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - Indiana SDG No.: 50143942 Contract: Racer Trust, Kokomo
Lab File ID: A051016.B\A00BFB.D BFB Injection Date: 05/10/2016
Instrument ID: 50MV6A BFB Injection Time: 14:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.91	
75	30.00 - 60.00% of mass 95	50.59	
95	Base Peak, 100.00% relative abundance	100.00	
96	5.00 - 9.00% of mass 95	6.39	
173	Less than 2.00% of mass 174	1.66	(1.69)[1]
174	50.00 - 100.00% of mass 95	97.91	
175	5.00 - 9.00% of mass 174	7.37	(7.53)[1]
176	95.00 - 101.00% of mass 174	94.55	(96.56)[1]
177	5.00 - 9.00% of mass 176	5.90	(6.24)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
9698515CCV	9698515CCV	A051016.B\A01CCV.D	05/10/2016	14:54
1536249LCS	1536249LCS	A051016.B\A02LCS.D	05/10/2016	15:32
1536248BLANK	1536248BLANK	A051016.B\A03MB.D	05/10/2016	16:10
MW-0611-S1 (042916) (Low	50143942001	A051016.B\A12.D	05/10/2016	21:48
WC-1-LF (042916)	50143942002	A051016.B\A13.D	05/10/2016	22:26
Trip Blank	50143942004	A051016.B\A14.D	05/10/2016	23:03

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - Indiana SDG No.: 50143942 Contract: Racer Trust, Kokomo

Sample ID : 9698515CCV Init. Calib. Date: 05/09/2016 Time: 05/10/2016

Instrument ID: 50MV6A GC Column: Col 1 Date Analyzed: 05/10/2016

Lab File ID: A051016.B\A01CCV.D Time Analyzed: 14:54

		AREA CBZ	RT	AREA DCB	RT	AREA FBZ	RT
12 HOUR STD		193546	7.154	108445	8.534	284349	4.03
UPPER LIMIT		387092	7.654	216890	9.034	568698	4.53
LOWER LIMIT		96773	6.654	54222.5	8.034	142174.5	3.53
LAB SAMPLE ID	SAMPLE NO.						
1536248	1536248BLANK	171711	7.154	90220	8.534	216387	4.035
1536249	1536249LCS	198205	7.154	109319	8.534	289042	4.03
50143942001	MW-0611-S1 (042916)	172851	7.154	90117	8.534	213767	4.03
50143942002	WC-1-LF (042916)	163588	7.154	87430	8.534	203984	4.035
50143942004	Trip Blank	174770	7.154	89914	8.534	216955	4.03

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
FBZ = Fluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT
* Values outside of QC Limits

SAMPLE NO.

MW-0611-S1 (042916) (Low Flow)

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 21:48 Lab Sample ID: 50143942001

Date Analyzed: 05/10/2016 21:48 Lab File ID: A051016.B\A12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MW-0611-S1 (042916) (Low Flow)

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 21:48 Lab Sample ID: 50143942001

Date Analyzed: 05/10/2016 21:48 Lab File ID: A051016.B\A12.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

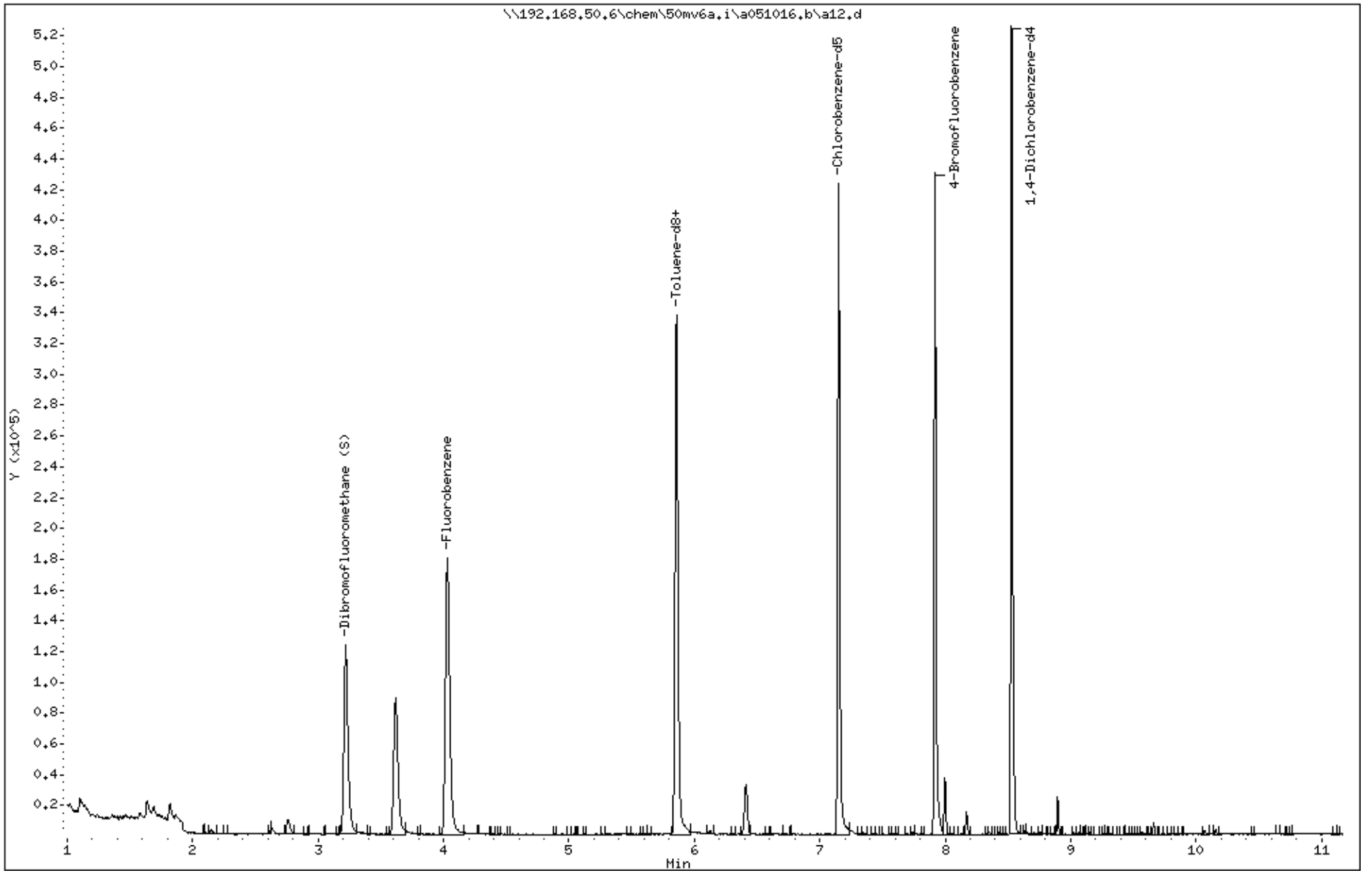
Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a12.d
Lab Smp Id: 50143942001 Client Smp ID: MW-0611-S1 (042916)
Inj Date : 10-MAY-2016 21:48
Operator : ala Inst ID: 50mv6a.i
Smp Info : 50143942001
Misc Info : 90006
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	12 Acetone	43	1.579	1.579	(0.392)	2793	5.38129	5.38
	14 Carbon Disulfide	76	1.692	1.686	(0.420)	6910	1.35428	1.35
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.800)	83348	57.5644	57.6
*	41 Fluorobenzene	96	4.029	4.029	(1.000)	213767	50.0000	
$	51 Toluene-d8	98	5.859	5.859	(0.819)	213694	46.5917	46.6
	52 Toluene	91	5.929	5.929	(0.829)	1270	0.19930	0.199
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	172851	50.0000	
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	84943	52.3631	52.4
*	85 1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	90117	50.0000	

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a12.d
Date : 10-MAY-2016 21:48
Client ID: MW-0611-S1 (042916)
Instrument: 50mv6a.i
Sample Info: 50143942001
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a12.d

Date : 10-MAY-2016 21:48

Client ID: MW-0611-S1 (042916)

Instrument: 50mv6a.i

Sample Info: 50143942001

Purge Volume: 5.0

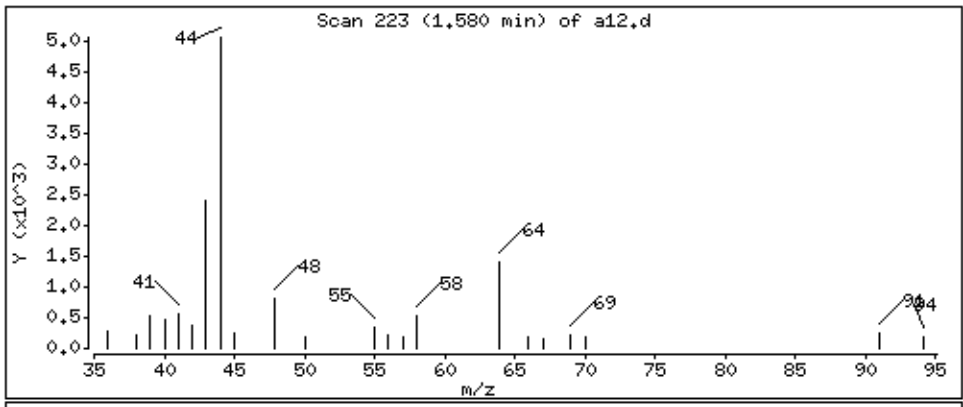
Operator: ala

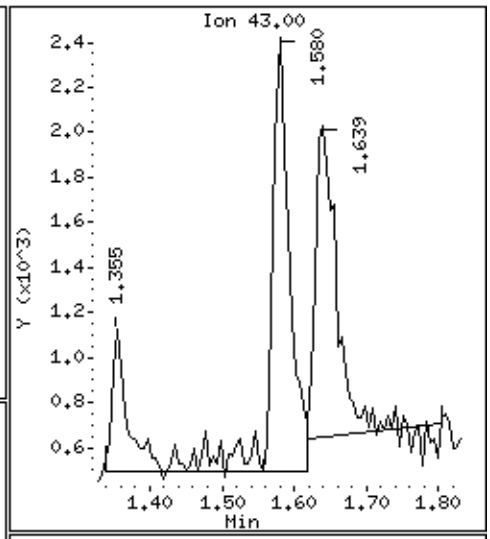
Column phase: DB-624

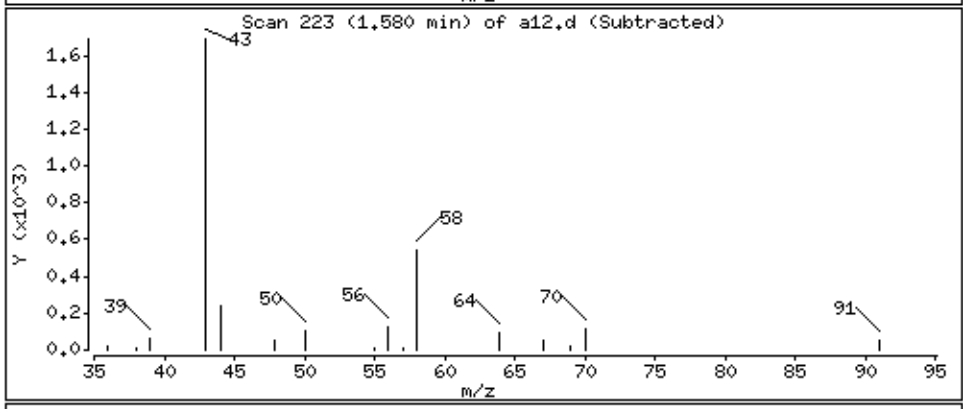
Column diameter: 0.18

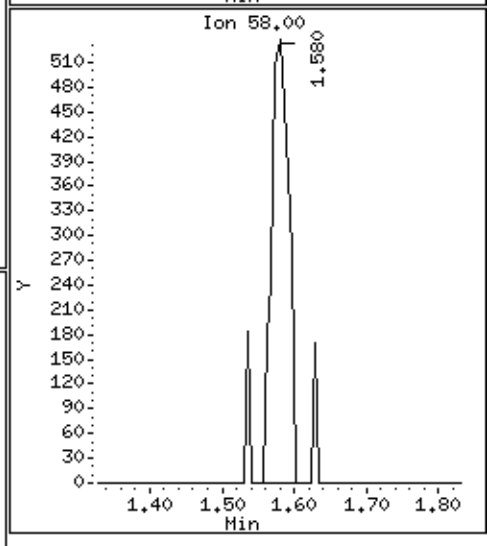
12 Acetone

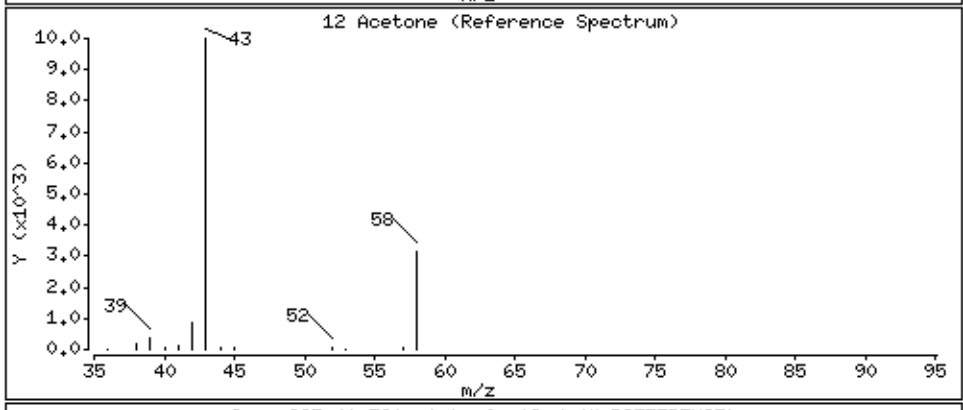
Concentration: 5.38 ppb

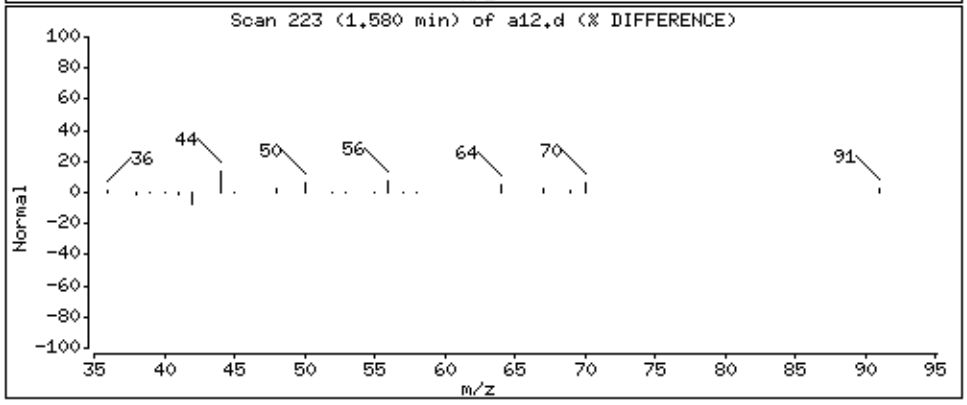












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a12.d

Date : 10-MAY-2016 21:48

Client ID: MW-0611-S1 (042916)

Instrument: 50mv6a.i

Sample Info: 50143942001

Purge Volume: 5.0

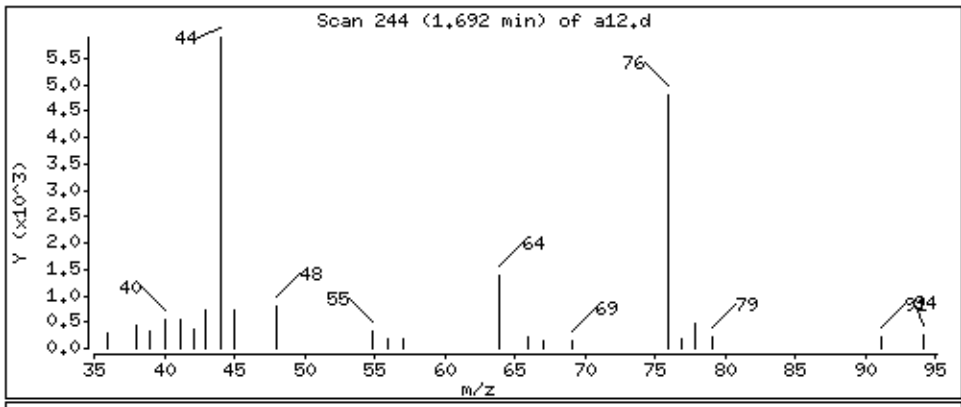
Operator: ala

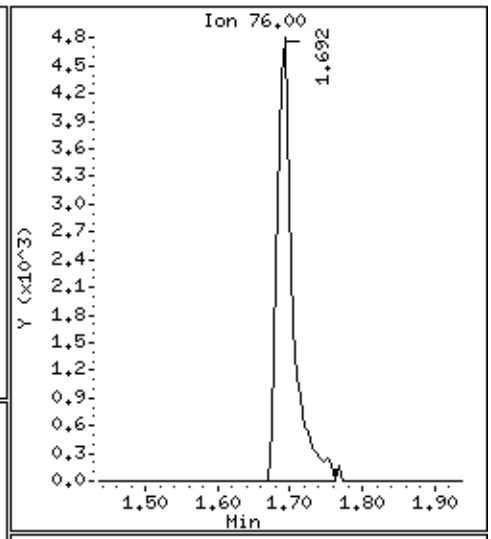
Column phase: DB-624

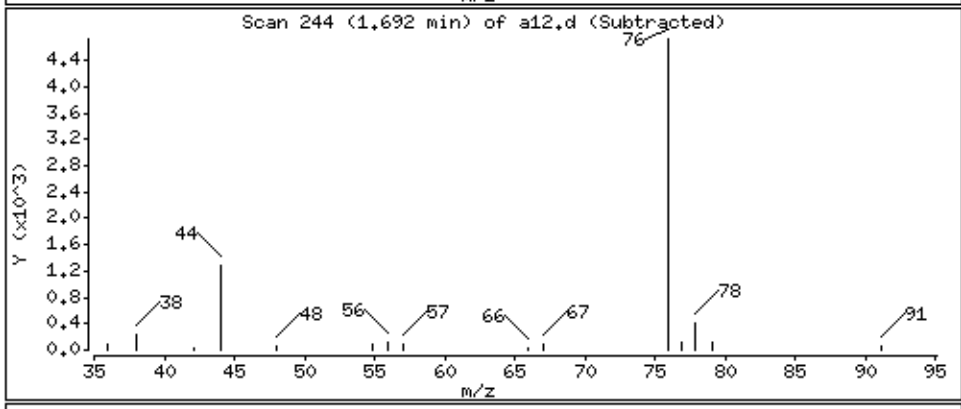
Column diameter: 0.18

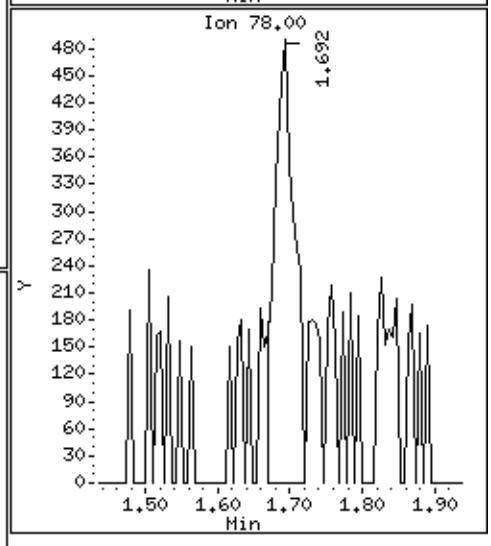
14 Carbon Disulfide

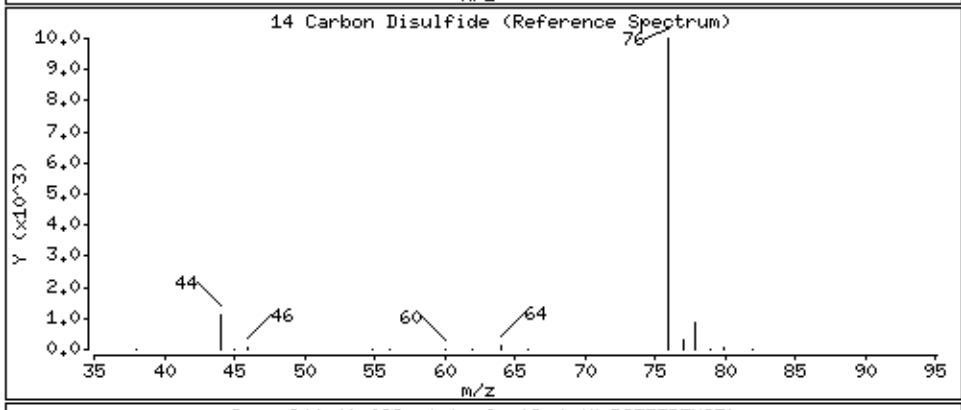
Concentration: 1.35 ppb

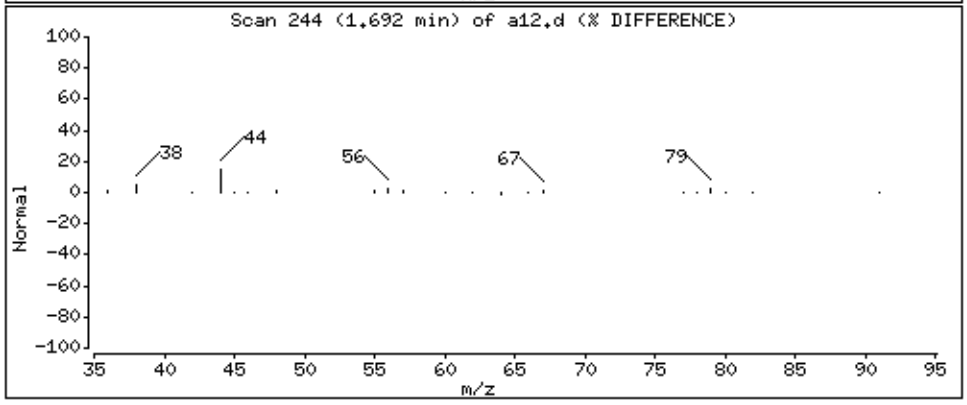












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a12.d

Date : 10-MAY-2016 21:48

Client ID: MW-0611-S1 (042916)

Instrument: 50mv6a.i

Sample Info: 50143942001

Purge Volume: 5.0

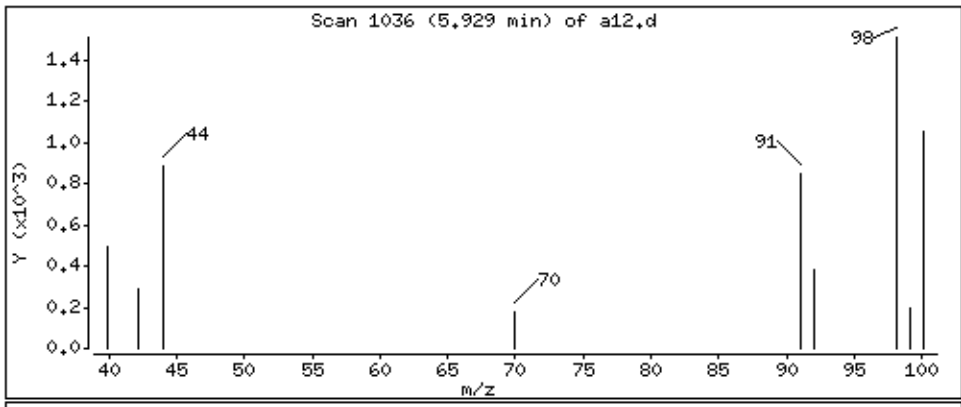
Operator: ala

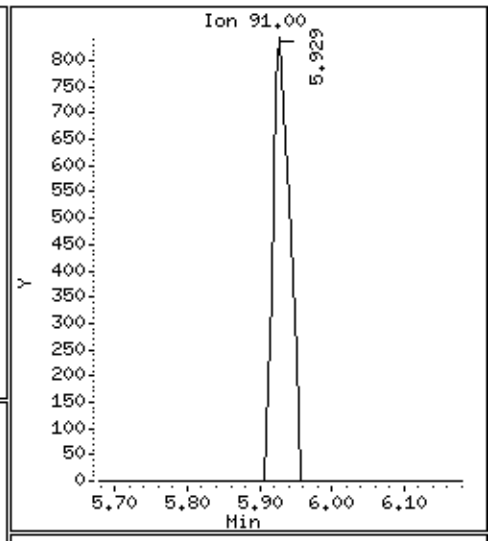
Column phase: DB-624

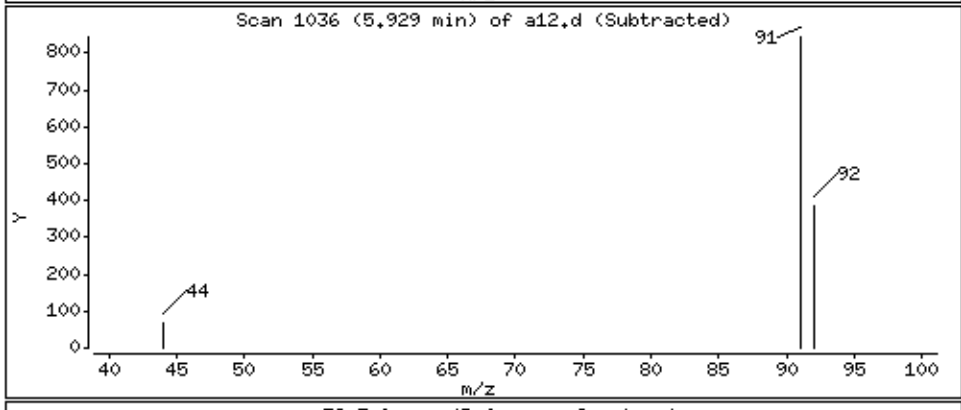
Column diameter: 0.18

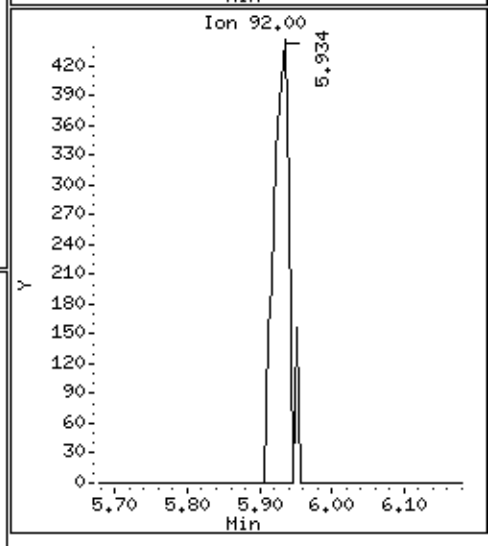
52 Toluene

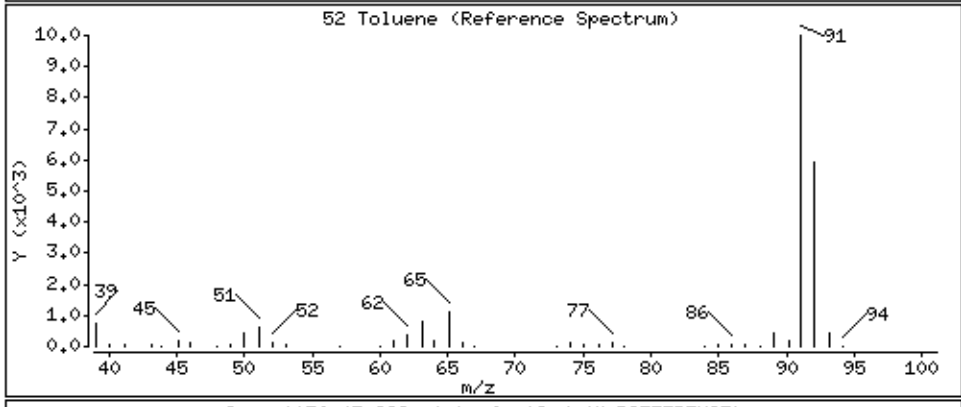
Concentration: 0.199 ppb

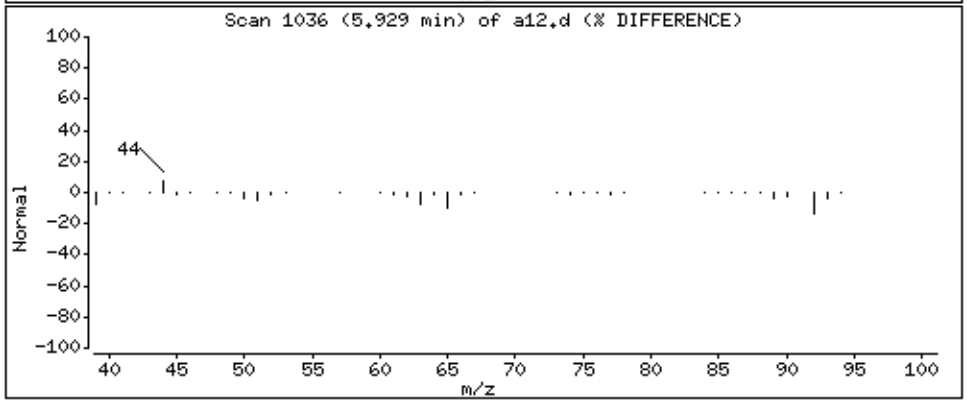












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a12.d
Injection Date: 10-MAY-2016 21:48
Instrument: 50mv6a.i
Lab Sample ID: 50143942001
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

WC-1-LF (042916)

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 22:26 Lab Sample ID: 50143942002

Date Analyzed: 05/10/2016 22:26 Lab File ID: A051016.B\A13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	30.6	J
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

WC-1-LF (042916)

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 22:26 Lab Sample ID: 50143942002

Date Analyzed: 05/10/2016 22:26 Lab File ID: A051016.B\A13.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d
Lab Smp Id: 50143942002 Client Smp ID: WC-1-LF (042916)
Inj Date : 10-MAY-2016 22:26
Operator : ala Inst ID: 50mv6a.i
Smp Info : 50143942002
Misc Info : 90006
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

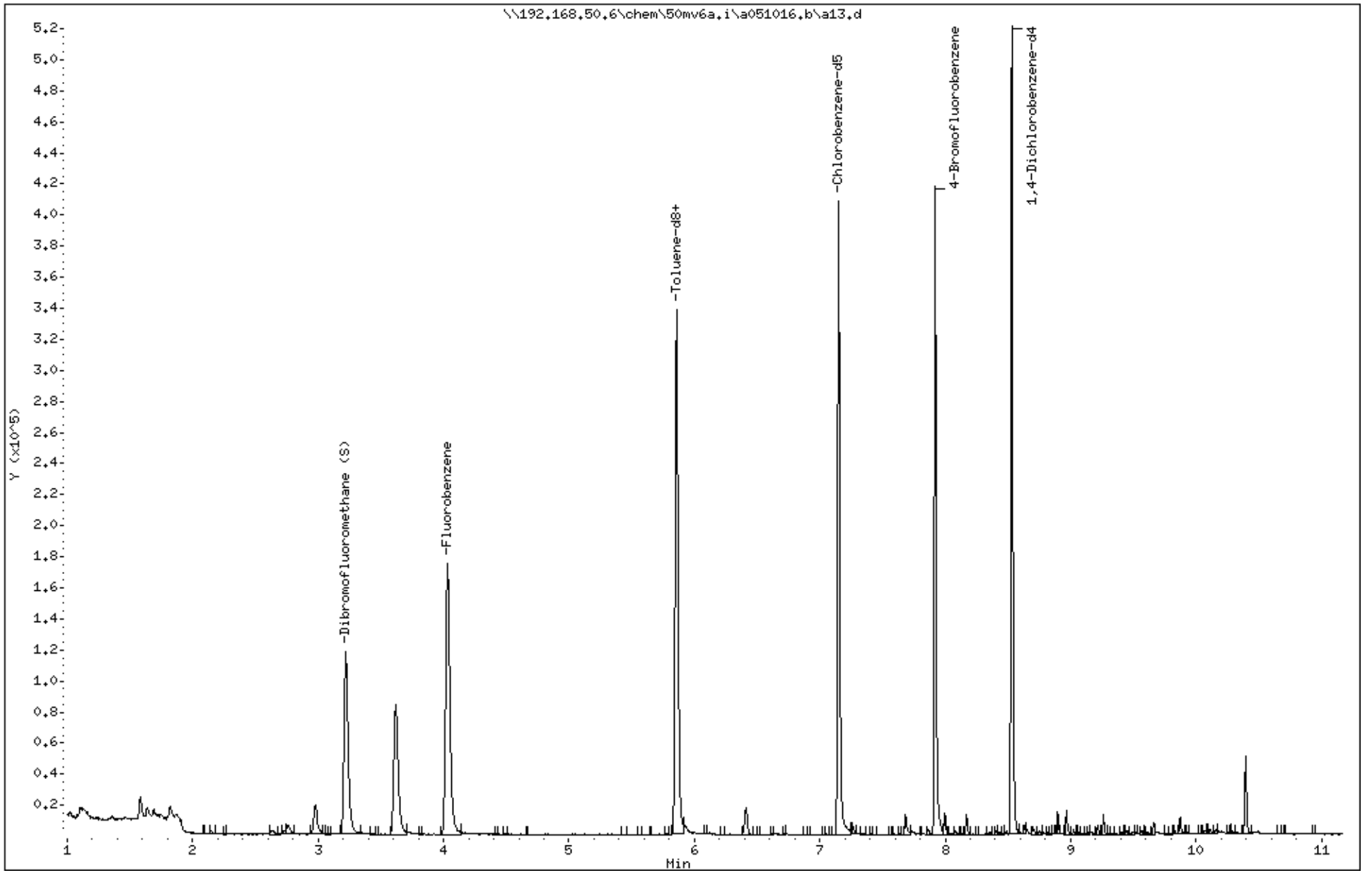
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	12 Acetone	43	1.579	1.579	(0.391)	15162	30.6138	30.6
	14 Carbon Disulfide	76	1.692	1.686	(0.419)	4194	0.86140	0.861
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	12552	27.8092	27.8
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	79198	57.3215	57.3
*	41 Fluorobenzene	96	4.035	4.029	(1.000)	203984	50.0000	
$	51 Toluene-d8	98	5.859	5.859	(0.819)	210366	48.4632	48.5
	52 Toluene	91	5.929	5.929	(0.829)	1656	0.27459	0.274
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	163588	50.0000	
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	79867	52.0218	52.0
*	85 1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	87430	50.0000	

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d
Date : 10-MAY-2016 22:26
Client ID: WC-1-LF (042916)
Sample Info: 50143942002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv6a.i
Operator: ala
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d

Date : 10-MAY-2016 22:26

Client ID: WC-1-LF (042916)

Instrument: 50mv6a.i

Sample Info: 50143942002

Purge Volume: 5.0

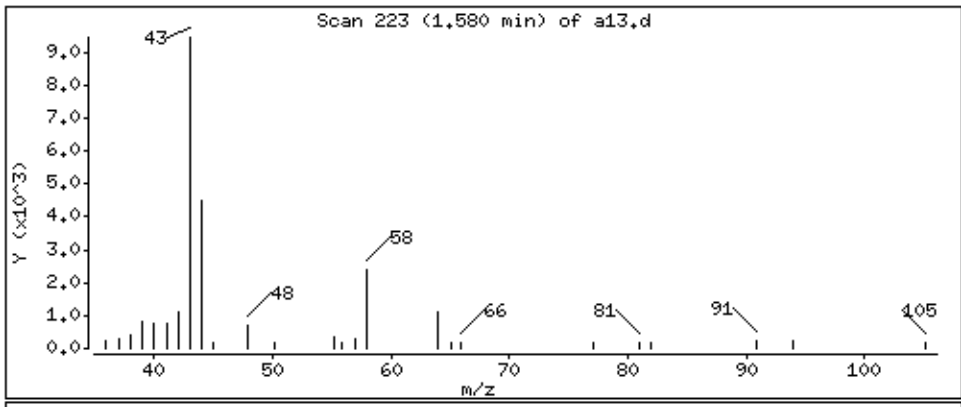
Operator: ala

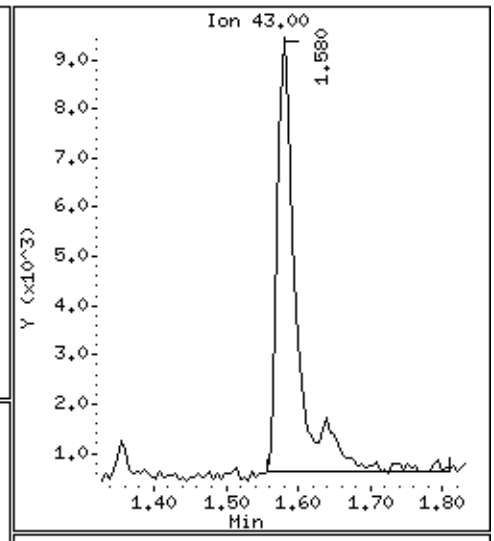
Column phase: DB-624

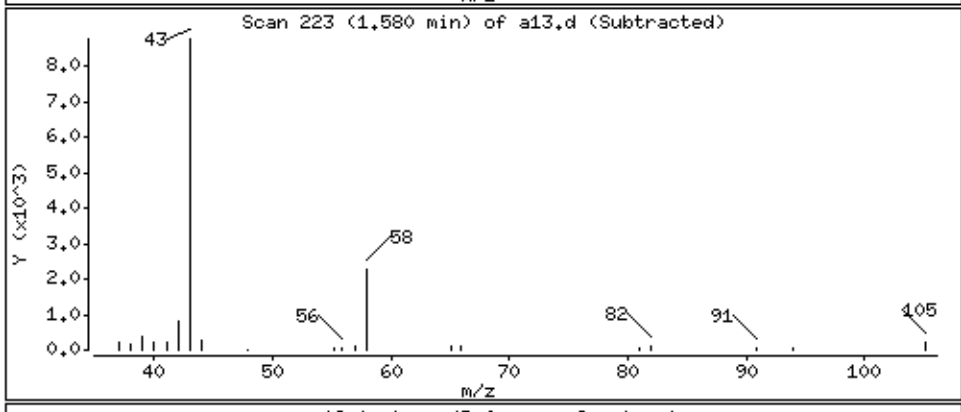
Column diameter: 0.18

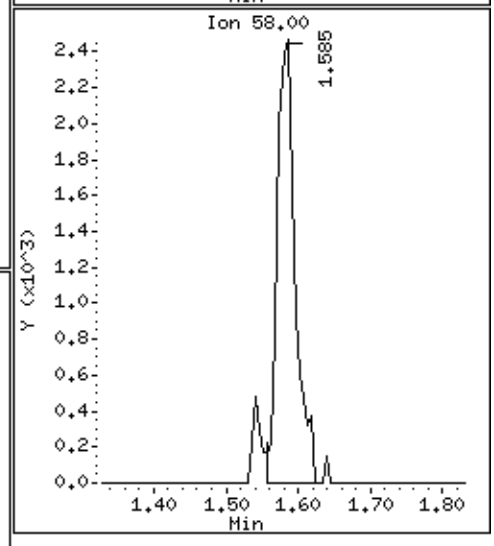
12 Acetone

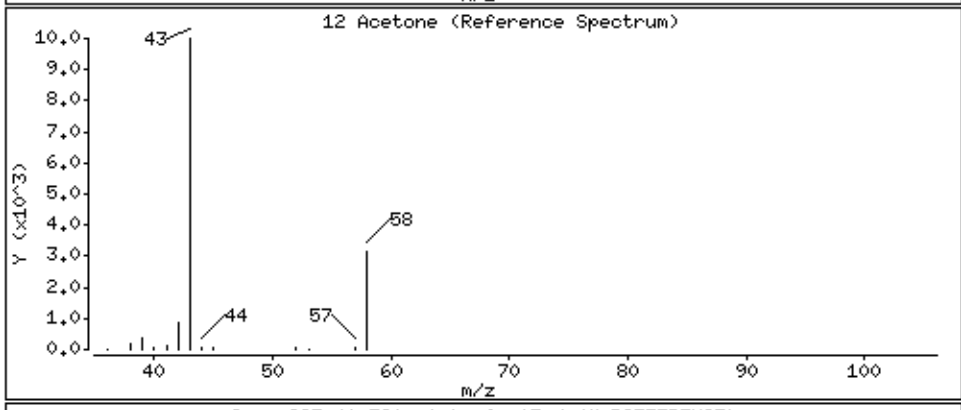
Concentration: 30.6 ppb

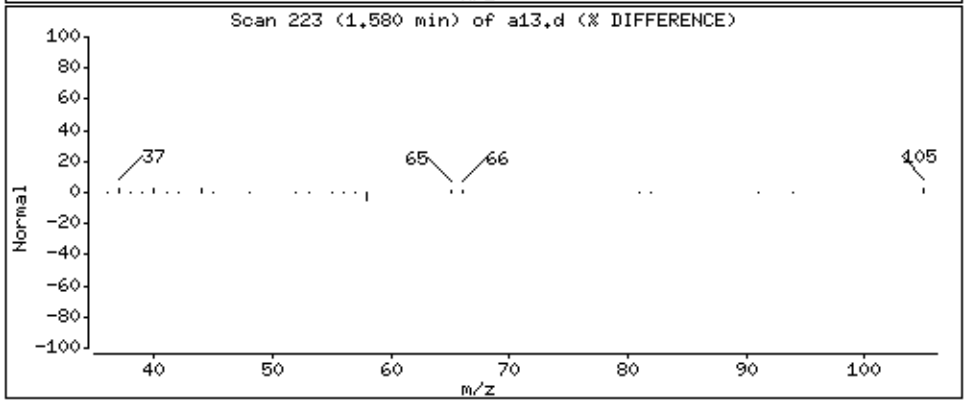












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d

Date : 10-MAY-2016 22:26

Client ID: WC-1-LF (042916)

Instrument: 50mv6a.i

Sample Info: 50143942002

Purge Volume: 5.0

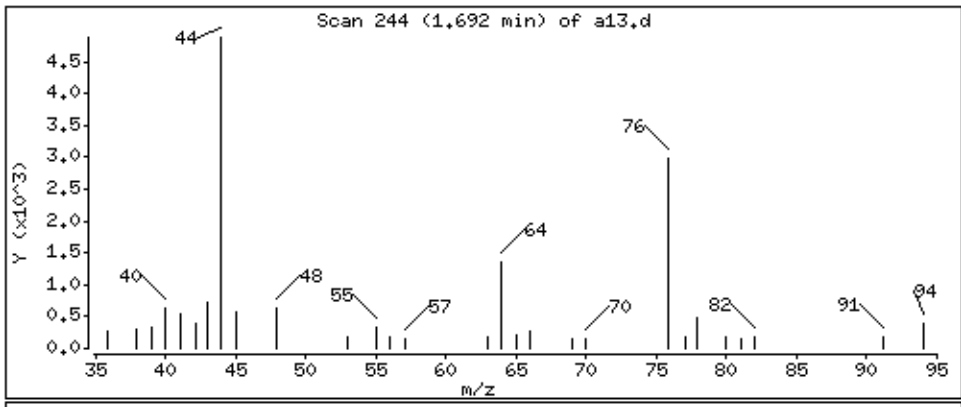
Operator: ala

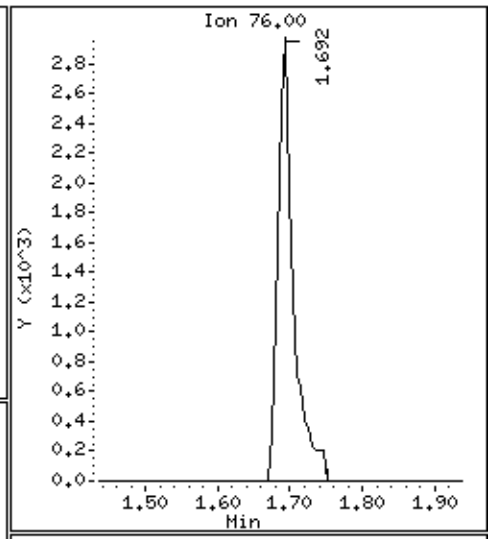
Column phase: DB-624

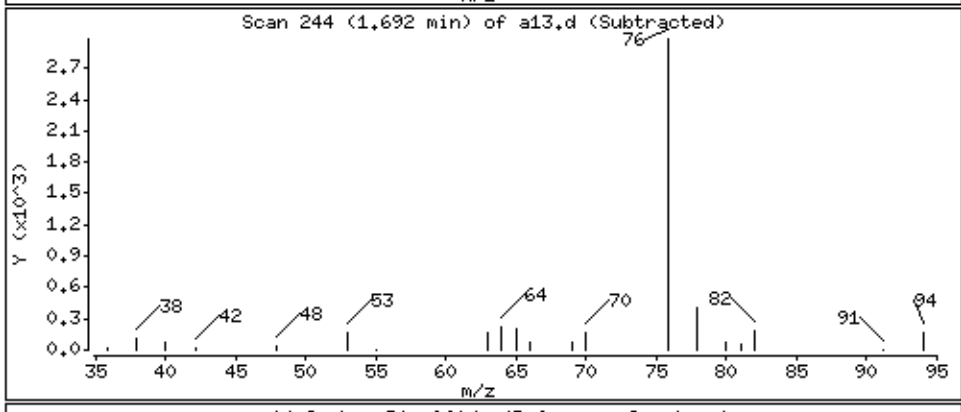
Column diameter: 0.18

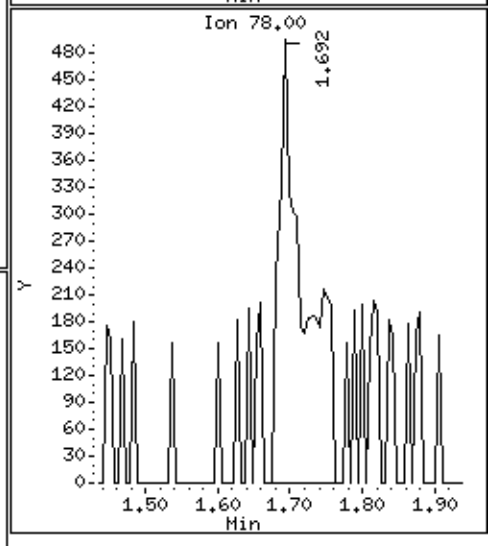
14 Carbon Disulfide

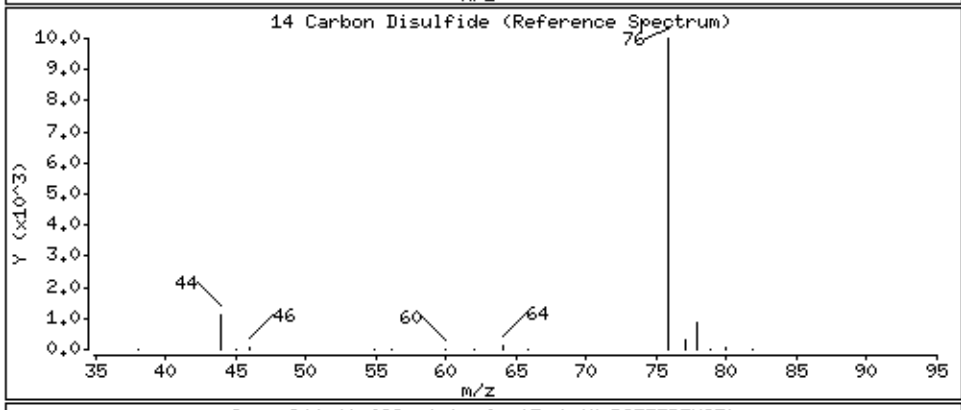
Concentration: 0.861 ppb

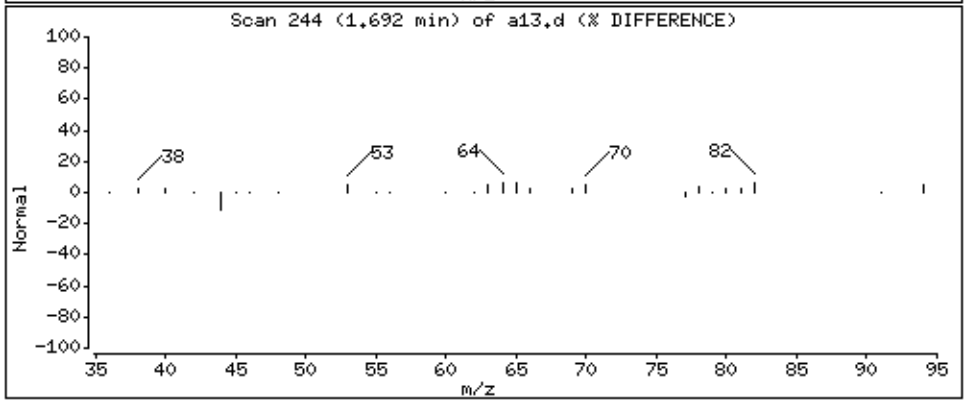












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d

Date : 10-MAY-2016 22:26

Client ID: WC-1-LF (042916)

Instrument: 50mv6a.i

Sample Info: 50143942002

Purge Volume: 5.0

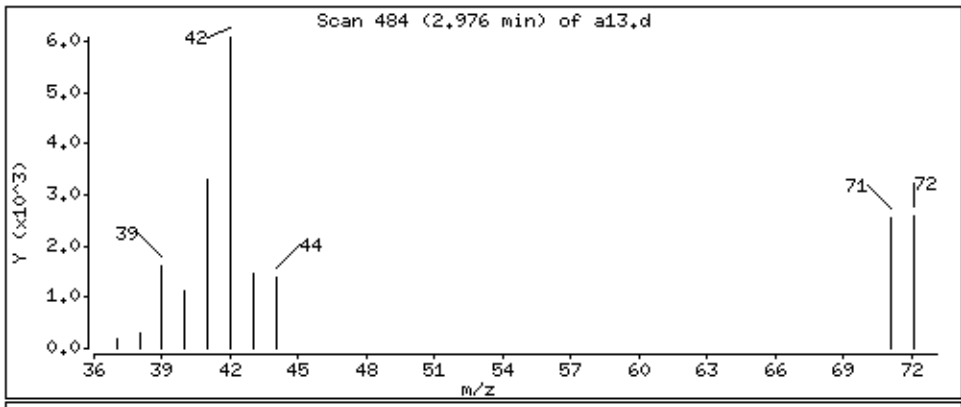
Operator: ala

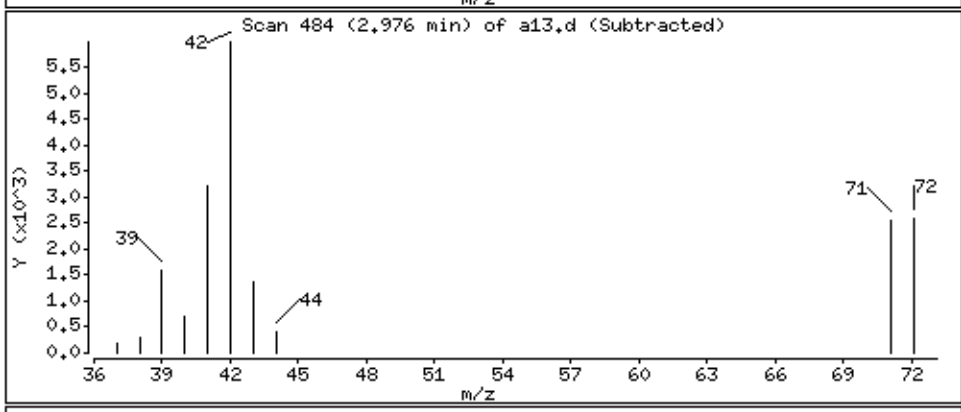
Column phase: DB-624

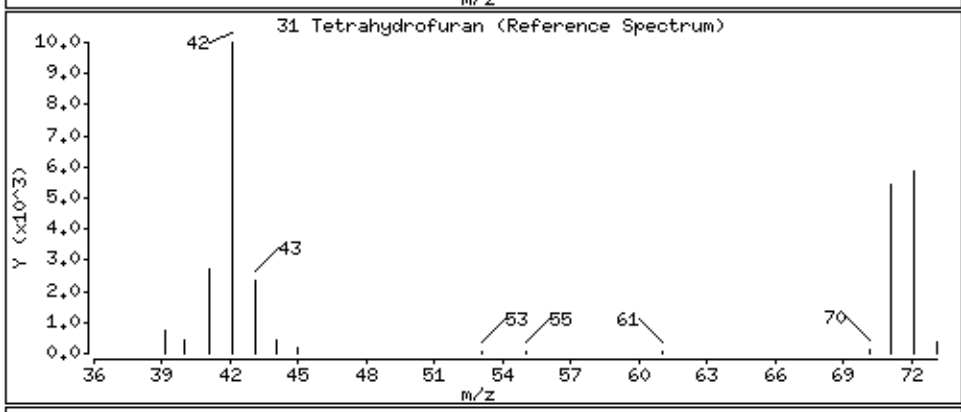
Column diameter: 0.18

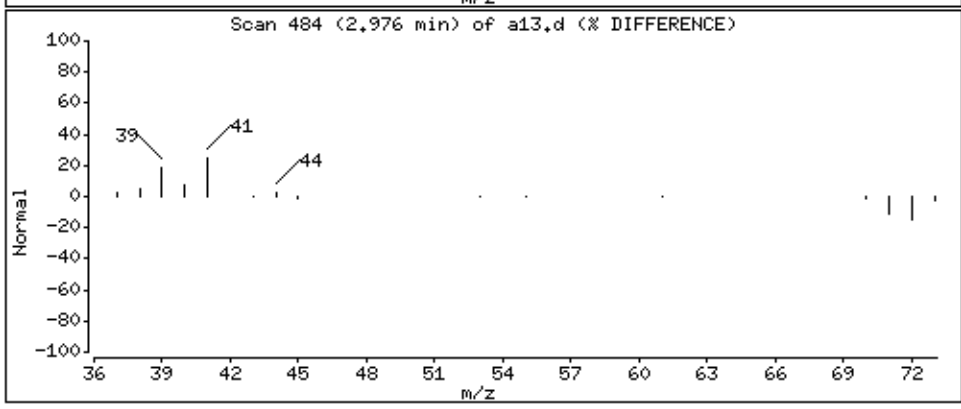
31 Tetrahydrofuran

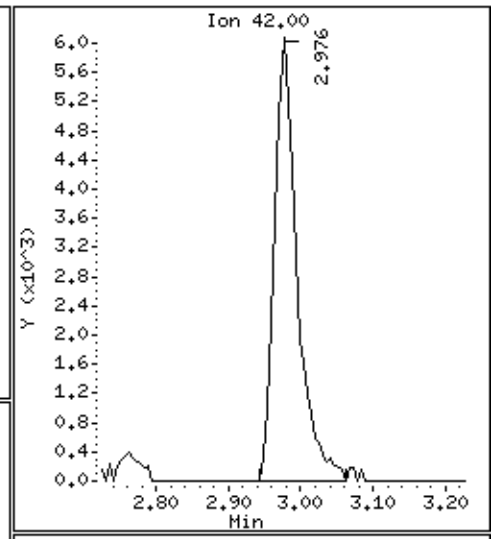
Concentration: 27.8 ppb

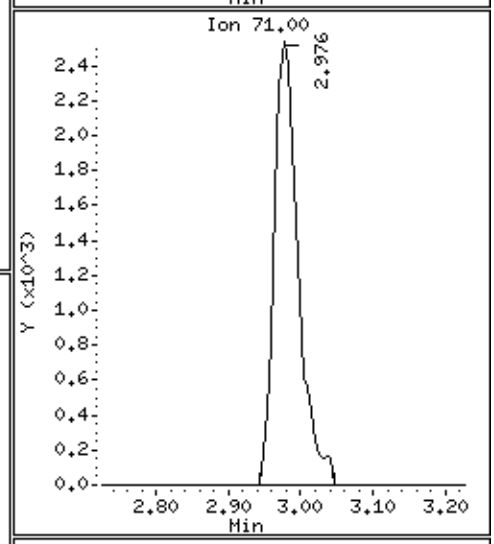


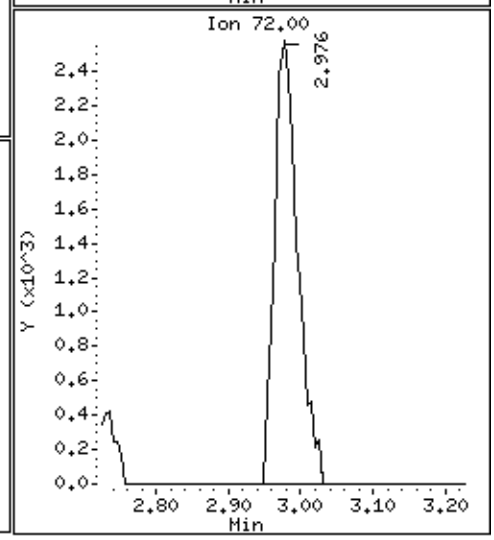












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a13.d

Date : 10-MAY-2016 22:26

Client ID: WC-1-LF (042916)

Instrument: 50mv6a.i

Sample Info: 50143942002

Purge Volume: 5.0

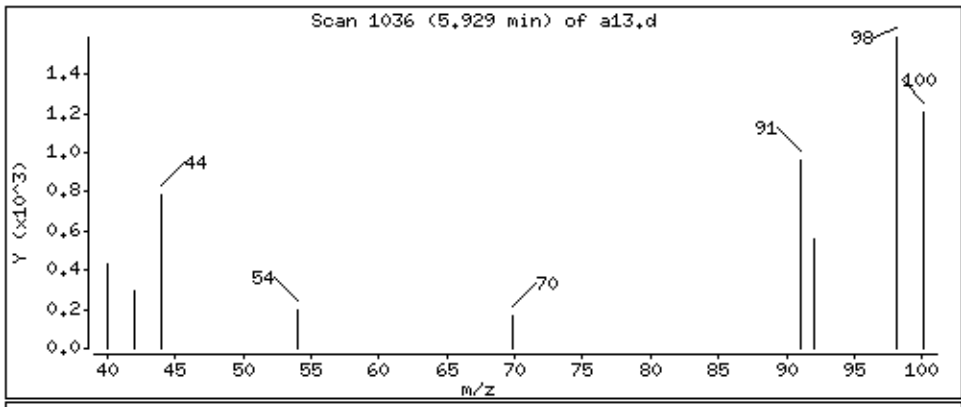
Operator: ala

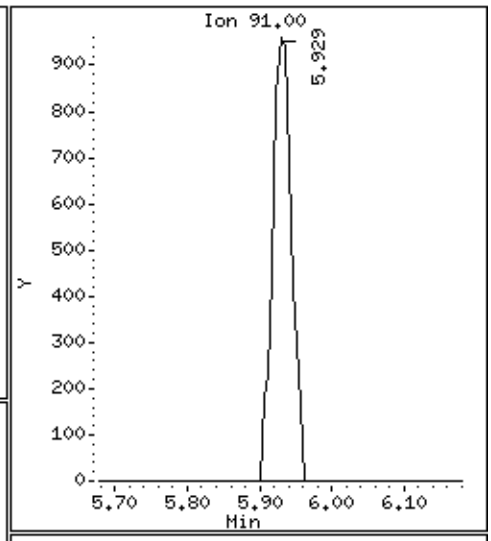
Column phase: DB-624

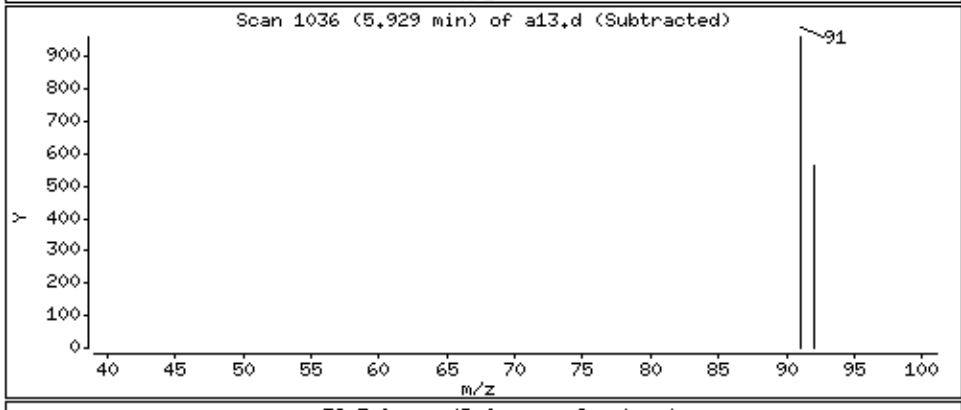
Column diameter: 0.18

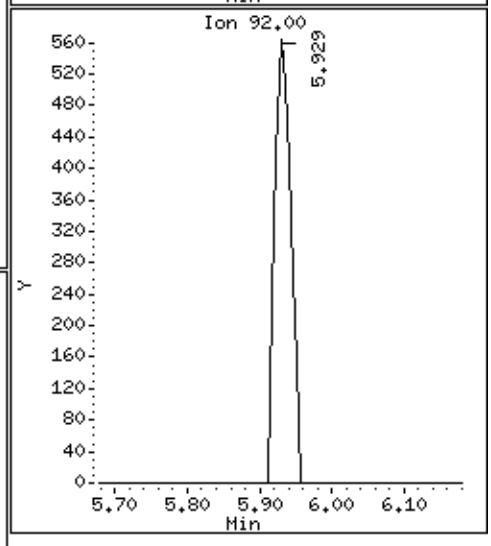
52 Toluene

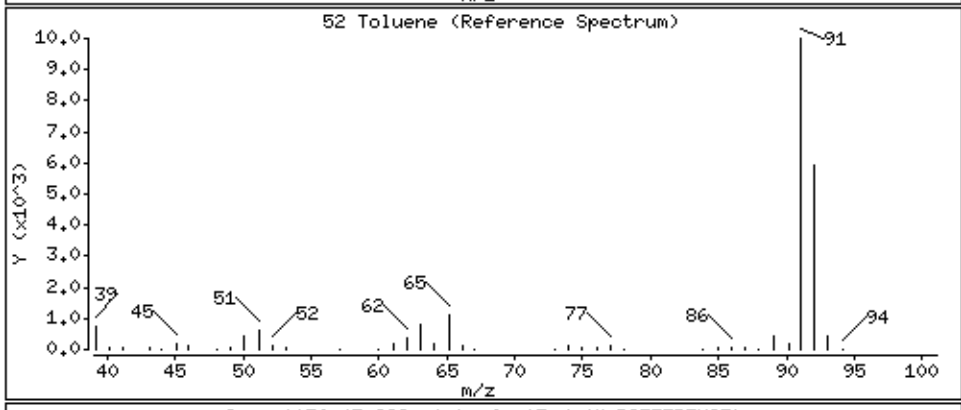
Concentration: 0.274 ppb

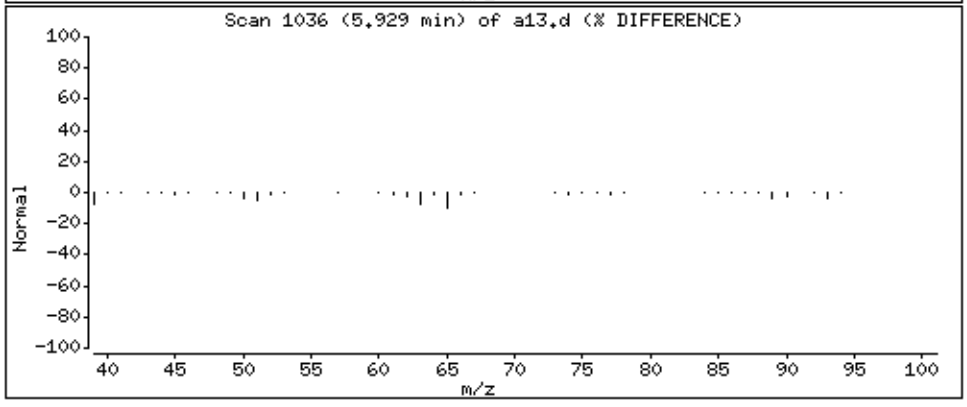












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a13.d
Injection Date: 10-MAY-2016 22:26
Instrument: 50mv6a.i
Lab Sample ID: 50143942002
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

Trip Blank

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 23:03 Lab Sample ID: 50143942004

Date Analyzed: 05/10/2016 23:03 Lab File ID: A051016.B\A14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	1.6	J
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	ND	U
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

Trip Blank

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: 04/29/2016 12:15 Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 23:03 Lab Sample ID: 50143942004

Date Analyzed: 05/10/2016 23:03 Lab File ID: A051016.B\A14.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a14.d
Lab Smp Id: 50143942004 Client Smp ID: Trip Blank
Inj Date : 10-MAY-2016 23:03
Operator : ala Inst ID: 50mv6a.i
Smp Info : 50143942004
Misc Info : 90006
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

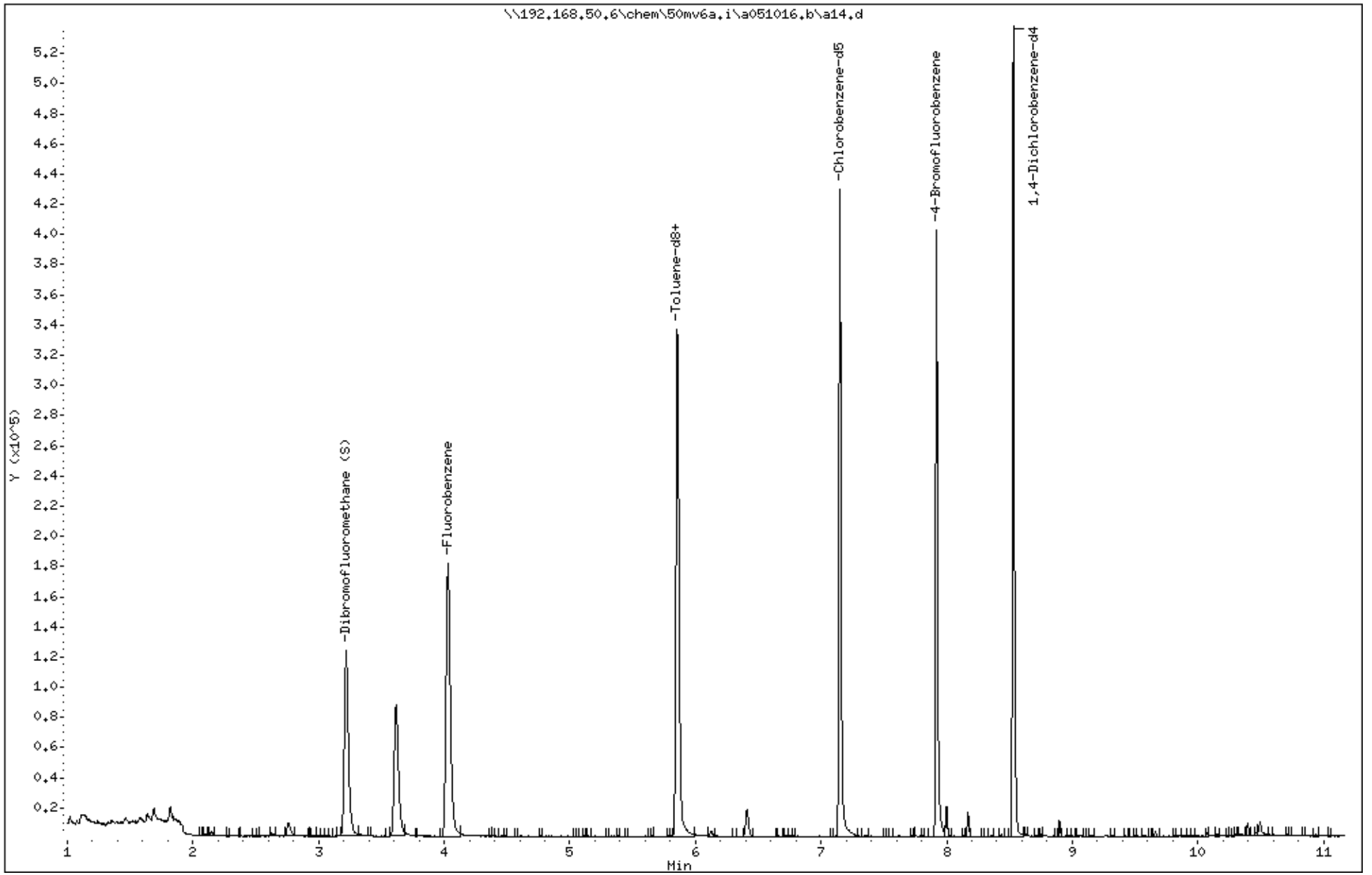
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	12 Acetone	43	1.579	1.579	(0.392)	5543	10.5228	10.5
	14 Carbon Disulfide	76	1.692	1.686	(0.420)	8140	1.57191	1.57
$	33 Dibromofluoromethane (S)	113	3.216	3.222	(0.798)	82492	56.1360	56.1
*	41 Fluorobenzene	96	4.030	4.029	(1.000)	216955	50.0000	
$	51 Toluene-d8	98	5.859	5.859	(0.819)	219769	47.3901	47.4
	52 Toluene	91	5.929	5.929	(0.829)	1172	0.18190	0.182
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	174770	50.0000	
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	83657	51.0041	51.0
*	85 1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	89914	50.0000	

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a14.d
Date : 10-MAY-2016 23:03
Client ID: Trip Blank
Sample Info: 50143942004
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv6a.i
Operator: ala
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a14.d

Date : 10-MAY-2016 23:03

Client ID: Trip Blank

Instrument: 50mv6a.i

Sample Info: 50143942004

Purge Volume: 5.0

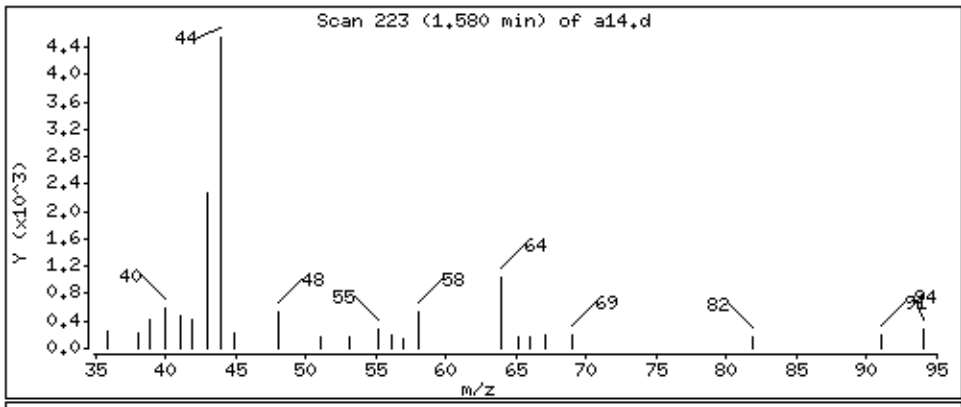
Operator: ala

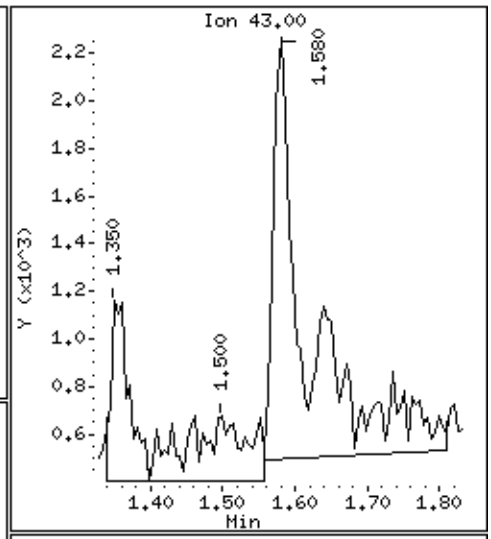
Column phase: DB-624

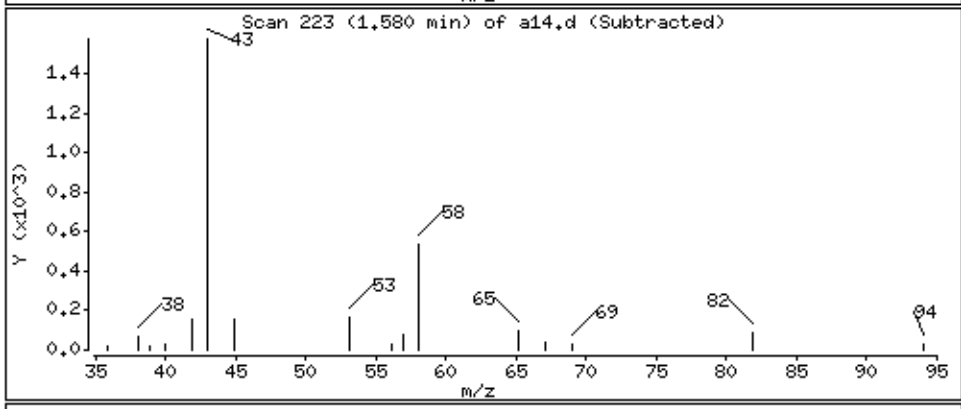
Column diameter: 0.18

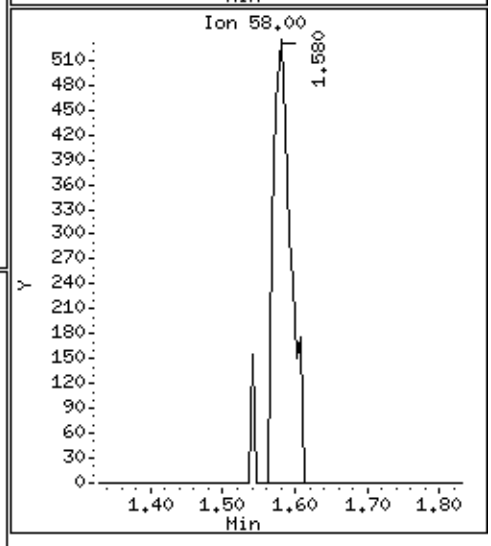
12 Acetone

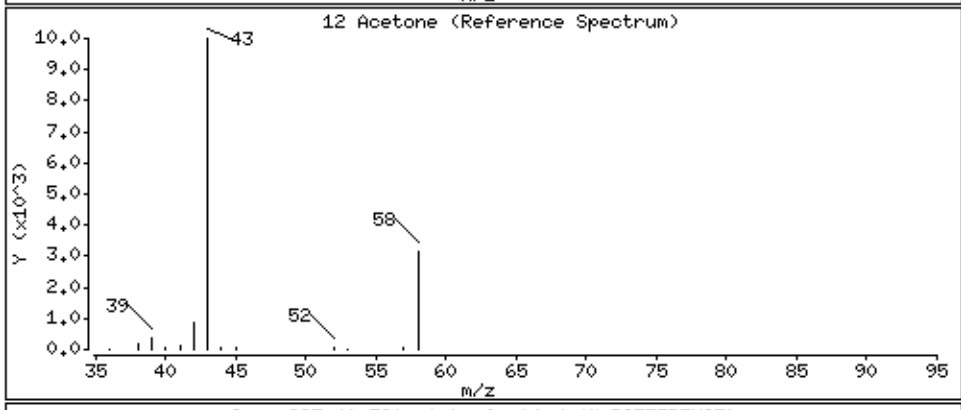
Concentration: 10.5 ppb

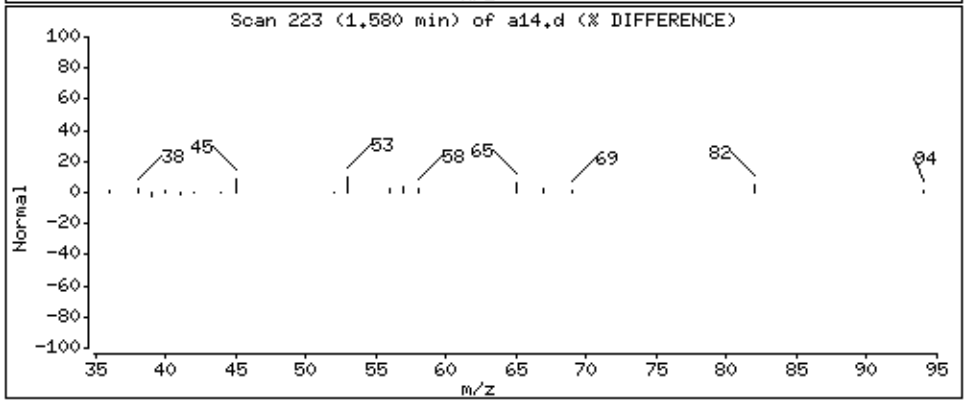












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a14.d

Date : 10-MAY-2016 23:03

Client ID: Trip Blank

Instrument: 50mv6a.i

Sample Info: 50143942004

Purge Volume: 5.0

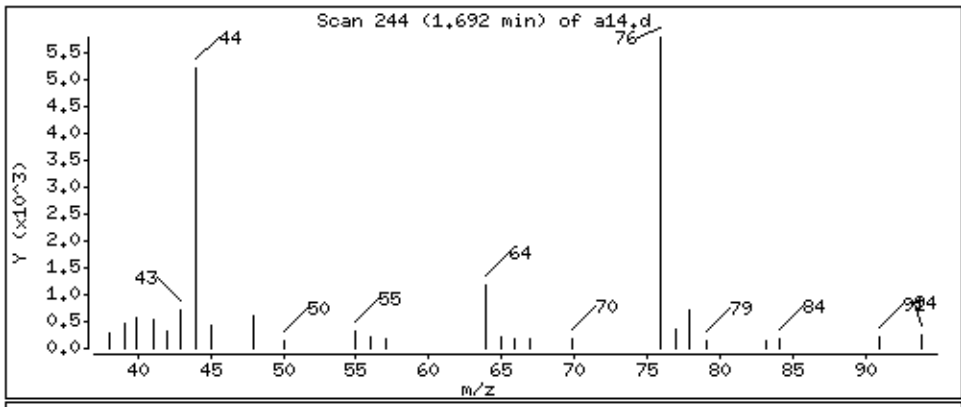
Operator: ala

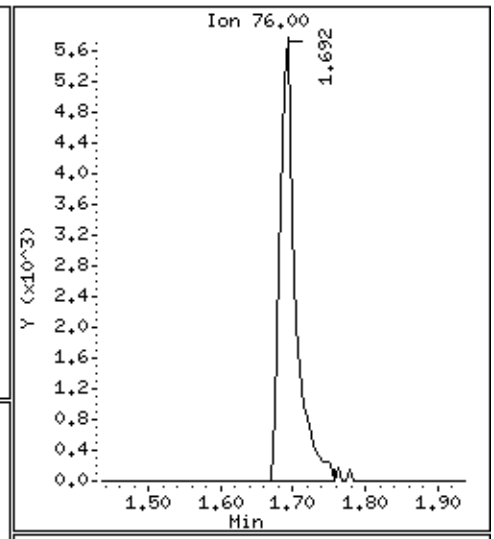
Column phase: DB-624

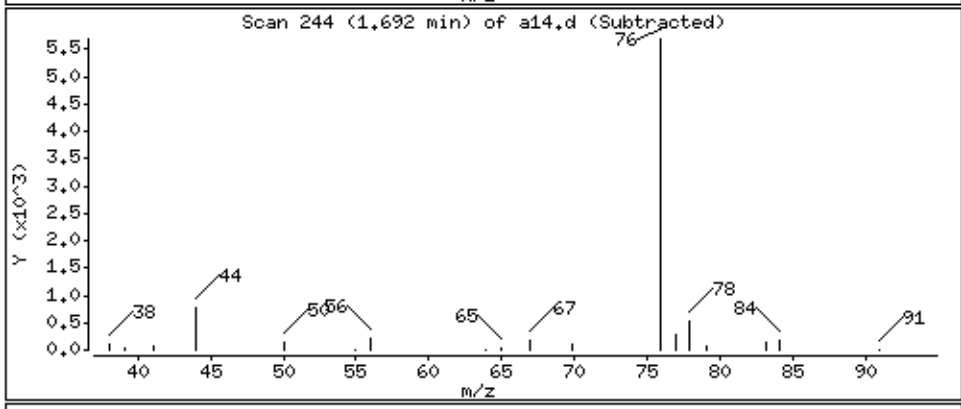
Column diameter: 0.18

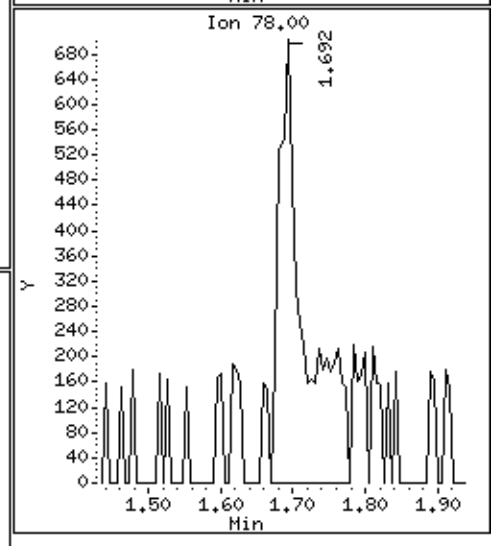
14 Carbon Disulfide

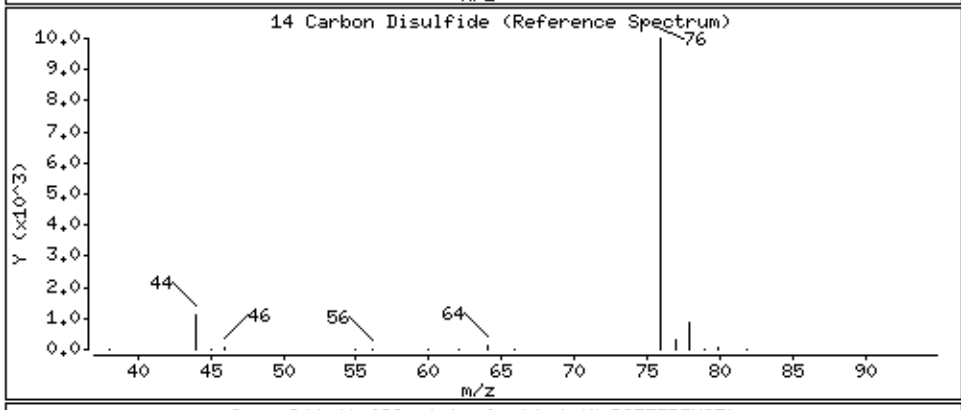
Concentration: 1.57 ppb

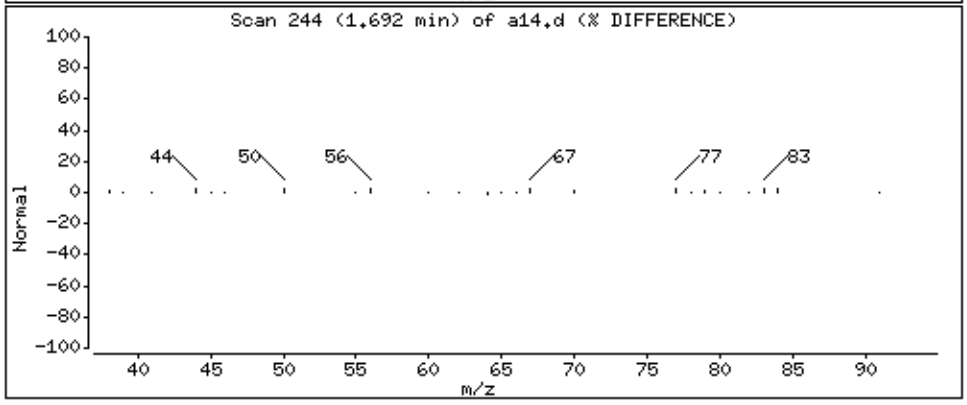












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a14.d

Date : 10-MAY-2016 23:03

Client ID: Trip Blank

Instrument: 50mv6a.i

Sample Info: 50143942004

Purge Volume: 5.0

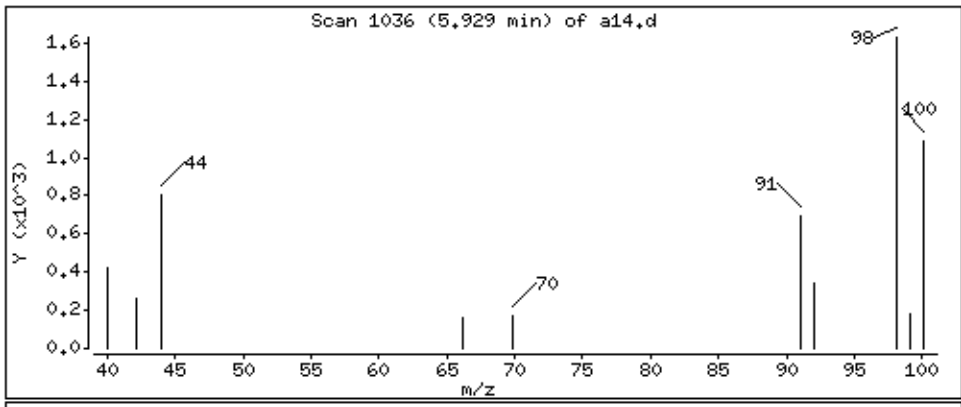
Operator: ala

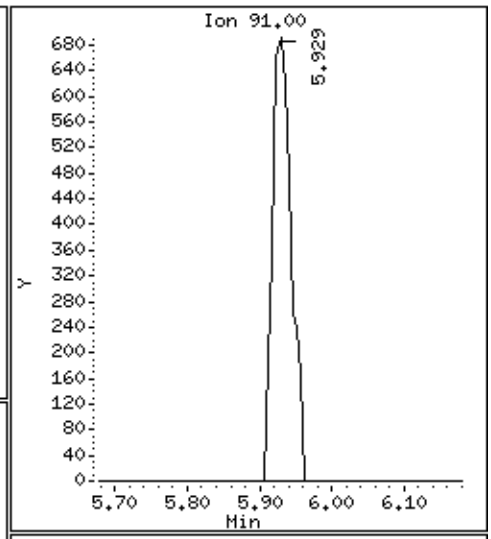
Column phase: DB-624

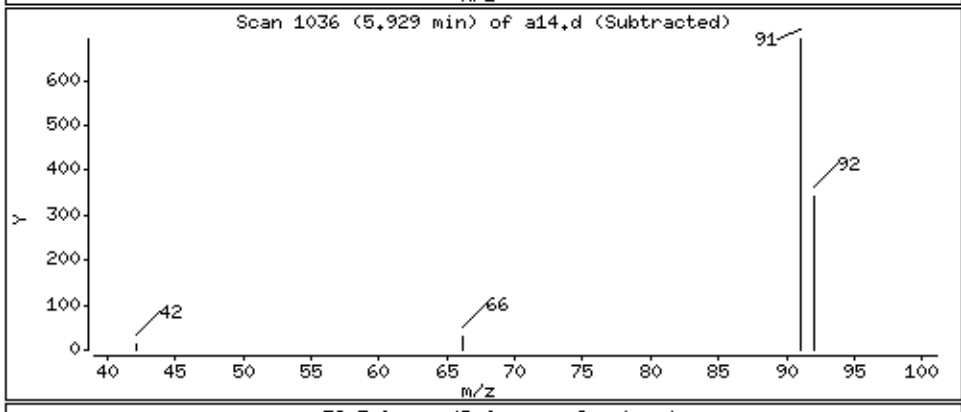
Column diameter: 0.18

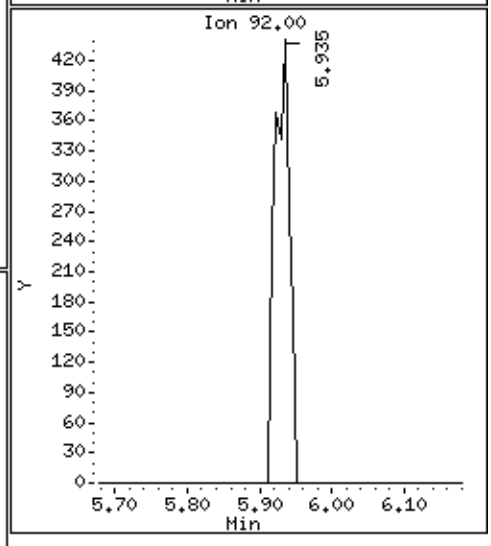
52 Toluene

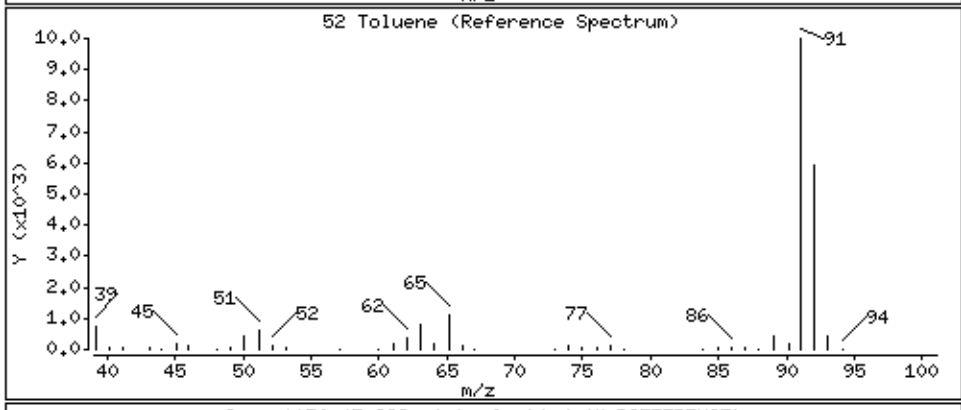
Concentration: 0.182 ppb

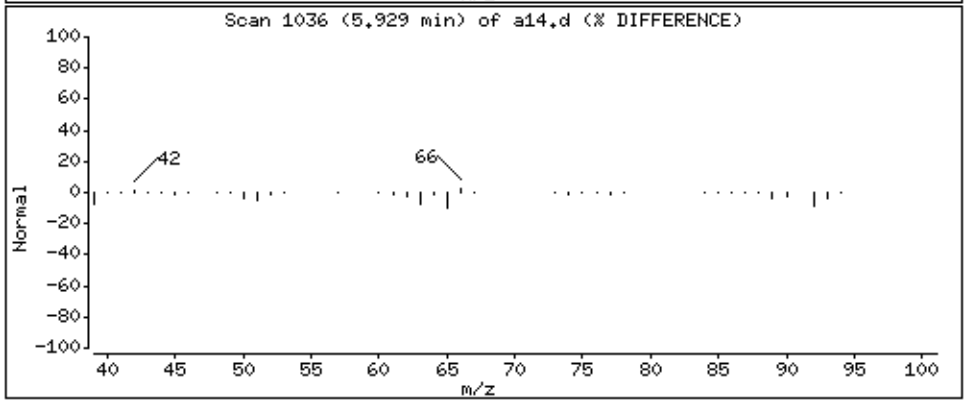












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a14.d
Injection Date: 10-MAY-2016 23:03
Instrument: 50mv6a.i
Lab Sample ID: 50143942004
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Averaged		0.14551	0.14714	0.13742	0.10946	0.10896
Benzene	Averaged	1.21474	1.19609	1.21096	1.33015	1.15896	1.23683
Bromodichloromethane	Averaged		0.45699	0.48439	0.58512	0.48562	0.49038
Bromoform	Averaged		0.62392	0.66532	0.74450	0.65599	0.76966
Bromomethane	Averaged	0.13359	0.08128	0.08697	0.11107	0.11903	0.12918
2-Butanone (MEK)	Averaged		0.23437	0.20267	0.18280	0.14350	0.15122
Carbon disulfide	Averaged			1.32853	1.41530	1.19624	1.15257
Carbon tetrachloride	Averaged	0.58022	0.57852	0.56133	0.63312	0.53953	0.55139
Chlorobenzene	Averaged	1.05041	1.12055	1.10013	1.21805	1.08182	1.20386
Chloroethane	Averaged	0.27400	0.31549	0.29529	0.30127	0.32993	0.25904
Chloroform	Averaged	0.77369	0.68703	0.65290	0.79267	0.65366	0.64720
Chloromethane	Averaged		0.45004	0.29659	0.27811	0.31206	0.26262
Cyclohexane	Averaged		0.56719	0.50396	0.58686	0.51576	0.52130
1,2-Dibromo-3-chloropropane	Averaged	0.17955	0.18767	0.20211	0.21953	0.18090	0.19027
Dibromochloromethane	Averaged	0.39034	0.44889	0.44142	0.50788	0.47818	0.53859
1,2-Dibromoethane (EDB)	Averaged	0.35014	0.33813	0.36027	0.41797	0.38558	0.42833
1,2-Dichlorobenzene	Averaged	1.57374	1.49924	1.58319	1.70056	1.52801	1.66363
1,3-Dichlorobenzene	Averaged	1.67273	1.70073	1.59185	1.79108	1.57776	1.67725
1,4-Dichlorobenzene	Averaged	1.78726	1.74408	1.69177	1.82860	1.62172	1.74829
Dichlorodifluoromethane	Averaged	0.59054	0.52019	0.45687	0.51867	0.52015	0.40022
1,1-Dichloroethane	Averaged	0.72765	0.71615	0.69051	0.72043	0.61289	0.64288
1,2-Dichloroethane	Averaged	0.48007	0.47667	0.45986	0.48401	0.41847	0.42176
1,1-Dichloroethene	Averaged	0.44869	0.43026	0.40238	0.47709	0.38281	0.37466
cis-1,2-Dichloroethene	Averaged	0.51249	0.44557	0.40179	0.43413	0.36466	0.37038
trans-1,2-Dichloroethene	Averaged	0.34669	0.48054	0.39037	0.40980	0.34285	0.33804
1,2-Dichloropropane	Averaged		0.30566	0.31557	0.33959	0.30718	0.32459
cis-1,3-Dichloropropene	Averaged	0.49208	0.55529	0.61808	0.71928	0.68215	0.76687
trans-1,3-Dichloropropene	Averaged		0.47119	0.53677	0.61962	0.60181	0.69099
Ethylbenzene	Averaged	0.60697	0.60388	0.59597	0.64135	0.57748	0.61512
2-Hexanone	Averaged		0.23918	0.27916	0.31896	0.27279	0.29692
Isopropylbenzene (Cumene)	Averaged	1.64522	1.95927	1.90434	2.05247	1.86281	1.93304
Methyl acetate	Averaged		0.30466	0.32836	0.28540	0.37394	0.26676
Methylcyclohexane	Averaged		0.37720	0.32998	0.42029	0.38217	0.41355
Methylene Chloride	Linear	0.74499	0.53967	0.61952	0.50743	0.39813	0.38091
4-Methyl-2-pentanone (MIBK)	Averaged	0.40259	0.33719	0.37342	0.40936	0.37188	0.42326

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-2

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Methyl-tert-butyl ether	Averaged	0.62503	0.75182	0.89457	0.95651	0.83185	0.89686
Styrene	Averaged	1.23255	1.24862	1.23786	1.30989	1.17314	1.25059
1,1,2,2-Tetrachloroethane	Averaged		0.75442	1.00490	1.05808	0.91004	1.01167
Tetrachloroethene	Averaged	0.40746	0.44191	0.46343	0.56205	0.50466	0.56609
Toluene	Averaged	1.85118	1.96712	1.70556	1.87688	1.73241	1.85966
1,2,4-Trichlorobenzene	Averaged	1.26122	1.22582	1.17474	1.22868	1.08913	1.17357
1,1,1-Trichloroethane	Averaged	0.77679	0.75679	0.65625	0.71924	0.61375	0.60426
1,1,2-Trichloroethane	Averaged		0.27036	0.30359	0.34602	0.31984	0.35351
Trichloroethene	Averaged	0.44559	0.37929	0.34273	0.37847	0.33357	0.35443
Trichlorofluoromethane	Averaged			0.85036	0.88063	0.92299	0.68601
1,1,2-Trichlorotrifluoroethane	Averaged	0.59075	0.57653	0.54215	0.61594	0.52187	0.50823
Vinyl chloride	Averaged	0.57939	0.52844	0.45636	0.48202	0.51866	0.40613
m&p-Xylene	Averaged	0.69332	0.76684	0.75715	0.81256	0.72463	0.75518
o-Xylene	Averaged	0.70424	0.75476	0.70819	0.79437	0.70183	0.72798
4-Bromofluorobenzene (S)	Averaged	0.47840	0.49794	0.49294	0.48284	0.48325	0.45978
Dibromofluoromethane (S)	Averaged	0.39323	0.37065	0.37010	0.34512	0.32729	0.30649
Toluene-d8 (S)	Averaged	1.26920	1.29268	1.29629	1.32233	1.34133	1.33697

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Averaged	0.10726	0.09404
Benzene	Averaged	1.24617	1.15490
Bromodichloromethane	Averaged	0.49034	0.46357
Bromoform	Averaged	0.84008	0.78591
Bromomethane	Averaged		
2-Butanone (MEK)	Averaged	0.15991	0.14532
Carbon disulfide	Averaged	1.08379	0.98416
Carbon tetrachloride	Averaged	0.54292	0.50636
Chlorobenzene	Averaged	1.22756	1.17831
Chloroethane	Averaged	0.19492	
Chloroform	Averaged	0.63668	0.59615
Chloromethane	Averaged	0.29200	0.35155
Cyclohexane	Averaged	0.50195	0.47354
1,2-Dibromo-3-chloropropane	Averaged	0.20545	0.21139
Dibromochloromethane	Averaged	0.56407	0.52686
1,2-Dibromoethane (EDB)	Averaged	0.45087	0.41100
1,2-Dichlorobenzene	Averaged	1.75285	1.74707
1,3-Dichlorobenzene	Averaged	1.75289	1.65183
1,4-Dichlorobenzene	Averaged	1.79410	1.71018
Dichlorodifluoromethane	Averaged	0.35842	0.39374
1,1-Dichloroethane	Averaged	0.64226	0.54818
1,2-Dichloroethane	Averaged	0.42319	0.39526
1,1-Dichloroethene	Averaged	0.34322	0.30136
cis-1,2-Dichloroethene	Averaged	0.37248	0.33220
trans-1,2-Dichloroethene	Averaged	0.34772	0.32241
1,2-Dichloropropane	Averaged	0.32794	0.30616
cis-1,3-Dichloropropene	Averaged	0.81339	0.77440
trans-1,3-Dichloropropene	Averaged	0.74208	0.68825
Ethylbenzene	Averaged	0.63364	0.61811
2-Hexanone	Averaged	0.30454	0.27711
Isopropylbenzene (Cumene)	Averaged	1.87847	1.77881
Methyl acetate	Averaged	0.25348	0.25323
Methylcyclohexane	Averaged	0.42383	0.40334
Methylene Chloride	Linear	0.36689	0.33297
4-Methyl-2-pentanone (MIBK)	Averaged	0.45974	0.41479

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Methyl-tert-butyl ether	Averaged	0.97347	0.93620
Styrene	Averaged	1.25510	1.16971
1,1,2,2-Tetrachloroethane	Averaged	1.06018	1.00973
Tetrachloroethene	Averaged	0.61100	0.58112
Toluene	Averaged	1.92932	1.82423
1,2,4-Trichlorobenzene	Averaged	1.36100	1.43259
1,1,1-Trichloroethane	Averaged	0.58938	0.54802
1,1,2-Trichloroethane	Averaged	0.37572	0.35395
Trichloroethene	Averaged	0.35309	0.33330
Trichlorofluoromethane	Averaged	0.60487	0.57975
1,1,2-Trichlorotrifluoroethane	Averaged	0.49056	0.44178
Vinyl chloride	Averaged	0.36639	0.38428
m&p-Xylene	Averaged	0.76053	0.71096
o-Xylene	Averaged	0.72512	0.66274
4-Bromofluorobenzene (S)	Averaged	0.43276	0.42605
Dibromofluoromethane (S)	Averaged	0.29986	0.29658
Toluene-d8 (S)	Averaged	1.36510	1.38993

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Averaged	17.62489			0.12140	
Benzene	Averaged	4.57218			1.21860	
Bromodichloromethane	Averaged	8.58712			0.49377	
Bromoform	Averaged	10.93305			0.72648	
Bromomethane	Averaged	19.72492			0.11019	
2-Butanone (MEK)	Averaged	19.62043			0.17426	
Carbon disulfide	Averaged	13.24701			1.19343	
Carbon tetrachloride	Averaged	6.64127			0.56167	
Chlorobenzene	Averaged	5.91220			1.14759	
Chloroethane	Averaged	15.98313			0.28142	
Chloroform	Averaged	10.08723			0.68000	
Chloromethane	Averaged	19.88000			0.32042	
Cyclohexane	Averaged	7.51803			0.52437	
1,2-Dibromo-3-chloropropane	Averaged	7.44656			0.19711	
Dibromochloromethane	Averaged	11.91648			0.48703	
1,2-Dibromoethane (EDB)	Averaged	10.32761			0.39279	
1,2-Dichlorobenzene	Averaged	6.03207			1.63104	
1,3-Dichlorobenzene	Averaged	4.34044			1.67701	
1,4-Dichlorobenzene	Averaged	3.77927			1.74075	
Dichlorodifluoromethane	Averaged	17.11023			0.46985	
1,1-Dichloroethane	Averaged	9.47409			0.66262	
1,2-Dichloroethane	Averaged	7.67875			0.44491	
1,1-Dichloroethene	Averaged	14.48729			0.39506	
cis-1,2-Dichloroethene	Averaged	14.25367			0.40421	
trans-1,2-Dichloroethene	Averaged	14.08162			0.37230	
1,2-Dichloropropane	Averaged	4.10579			0.31810	
cis-1,3-Dichloropropene	Averaged	16.77405			0.67769	
trans-1,3-Dichloropropene	Averaged	15.26160			0.62153	
Ethylbenzene	Averaged	3.33673			0.61156	
2-Hexanone	Averaged	9.10680			0.28409	
Isopropylbenzene (Cumene)	Averaged	6.52618			1.87681	
Methyl acetate	Averaged	15.02440			0.29512	
Methylcyclohexane	Averaged	8.41770			0.39291	
Methylene Chloride	Linear		0.99794	0.03071	0.33391	
4-Methyl-2-pentanone (MIBK)	Averaged	9.40486			0.39903	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

05/16/2016 10:43

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - Indiana Instrument ID: 50MV6A GC Column: Col 1 SDG No.: 50143942

Calibration Date(s): 05/09/2016 05/10/2016 Calibration Time(s): 19:37 00:00

LAB FILE ID

CAL1 = A050916CAL.B\A01.D CAL2 = A050916CAL.B\A02.D CAL3 = A050916CAL.B\A03.D

CAL4 = A050916CAL.B\A04.D CAL5 = A050916CAL.B\A05.D CAL6 = A050916CAL.B\A06.D

CAL7 = A050916CAL.B\A07.D CAL8 = A050916CAL.B\A08.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Methyl-tert-butyl ether	Averaged	13.80236			0.85829	
Styrene	Averaged	3.69181			1.23468	
1,1,2,2-Tetrachloroethane	Averaged	11.13906			0.97272	
Tetrachloroethene	Averaged	14.25372			0.51722	
Toluene	Averaged	4.84450			1.84330	
1,2,4-Trichlorobenzene	Averaged	8.80295			1.24334	
1,1,1-Trichloroethane	Averaged	12.74942			0.65806	
1,1,2-Trichloroethane	Averaged	10.87007			0.33186	
Trichloroethene	Averaged	10.15654			0.36506	
Trichlorofluoromethane	Averaged	19.76735			0.75410	
1,1,2-Trichlorotrifluoroethane	Averaged	10.69075			0.53598	
Vinyl chloride	Averaged	16.26131			0.46521	
m&p-Xylene	Averaged	4.98462			0.74765	
o-Xylene	Averaged	5.43184			0.72240	
4-Bromofluorobenzene (S)	Averaged	5.77273			0.46925	
Dibromofluoromethane (S)	Averaged	10.86151			0.33867	
Toluene-d8 (S)	Averaged	3.01495			1.32673	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a01.d
Lab Smp Id: 8260-CAL1 Client Smp ID: 8260-CAL1
Inj Date : 09-MAY-2016 19:37
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal1,121029:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	2860	1.00000	1.26(M)
2	Chloromethane	50	0.986	0.986	(0.244)	2847	1.00000	1.83(M)
3	Vinyl Chloride	62	1.034	1.034	(0.256)	2806	1.00000	1.24(M)
4	Bromomethane	94	1.167	1.168	(0.289)	647	1.00000	1.27(MH)
5	Chloroethane	64	1.210	1.210	(0.300)	1327	1.00000	0.974(M)
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	5238	1.00000	1.43(M)
8	Diethyl ether	74	1.440	1.440	(0.357)	1431	1.00000	1.17(M)
9	Acrolein	56	1.515	1.515	(0.376)	6013	20.0000	24.1(M)
10	1,1,2trichlorotrifluoroethane	101	1.553	1.553	(0.385)	2861	1.00000	1.10
11	1,1-Dichloroethene	96	1.563	1.563	(0.388)	2173	1.00000	1.14(M)
12	Acetone	43	1.585	1.585	(0.393)	4906	5.00000	8.34(M)
13	Iodomethane	142	1.649	1.649	(0.409)	1576	2.00000	2.26
14	Carbon Disulfide	76	1.686	1.686	(0.418)	8771	1.00000	1.52
17	Methylene Chloride	84	1.820	1.820	(0.451)	3608	1.00000	(M)
19	Acrylonitrile	53	1.954	1.954	(0.484)	1939	4.00000	3.64(M)
20	Methyl-tert-butyl ether	73	1.981	1.981	(0.491)	3027	1.00000	0.728(M)
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.491)	1679	1.00000	0.931(M)
22	n-Hexane	57	2.146	2.146	(0.532)	1733	1.00000	0.839(M)
24	Vinyl Acetate	43	2.264	2.264	(0.561)	9056	4.00000	3.25(M)
23	1,1-Dichloroethane	63	2.275	2.275	(0.564)	3524	1.00000	1.10(M)
26	1,2-Dichloroethene (cis)	96	2.724	2.724	(0.675)	2482	1.00000	1.27(M)
27	2,2-Dichloropropane	77	2.730	2.730	(0.677)	2602	1.00000	0.924(M)
30	Bromochloromethane	49	2.949	2.949	(0.731)	1248	1.00000	1.05

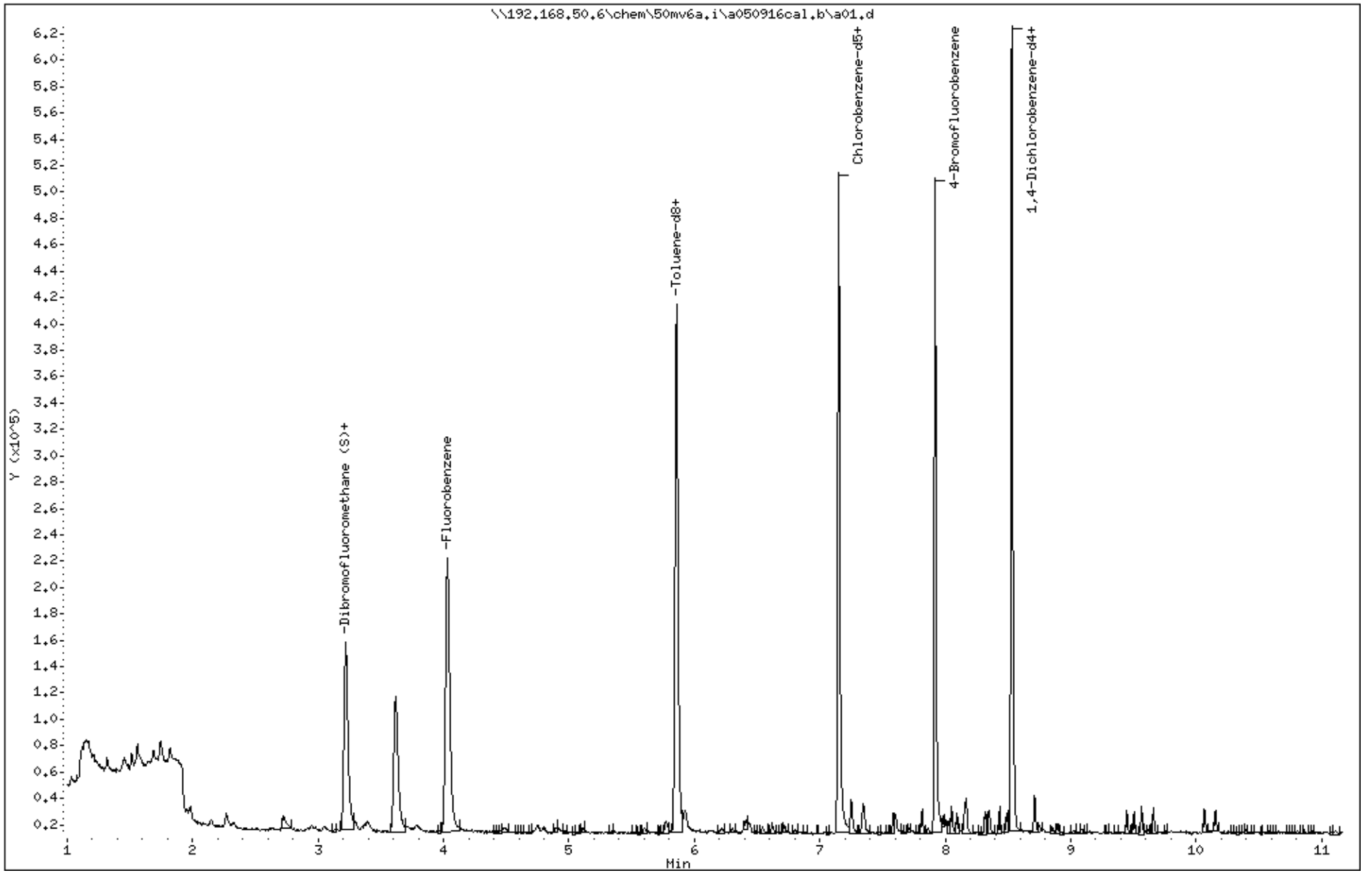
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb)	(ppb)
	32	Chloroform	83	3.056	3.056	(0.757)	3747	1.00000	1.14(M)
$	33	Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	95221	50.0000	58.0
	34	1,1,1-Trichloroethane	97	3.222	3.222	(0.798)	3762	1.00000	1.18(M)
	36	Carbon Tetrachloride	117	3.393	3.393	(0.841)	2810	1.00000	1.03
	37	1,1-Dichloropropene	75	3.393	3.393	(0.841)	1867	1.00000	0.840(M)
	39	Benzene	78	3.628	3.628	(0.899)	5883	1.00000	0.997
	40	1,2-Dichloroethane	62	3.714	3.714	(0.920)	2325	1.00000	1.08
	141	2,2,4-Trimethylpentane	57	3.789	3.789	(0.939)	4771	1.00000	0.887(M)
*	41	Fluorobenzene	96	4.035	4.035	(1.000)	242150	50.0000	
	42	Trichloroethene	95	4.490	4.490	(1.113)	2158	1.00000	1.22
	45	Dibromomethane	93	4.896	4.896	(1.213)	1486	1.00000	1.25
	49	cis-1,3-Dichloropropene	75	5.602	5.602	(0.783)	1983	1.00000	0.726(M)
	50	4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	8112	5.00000	5.04
$	51	Toluene-d8	98	5.859	5.859	(0.819)	255734	50.0000	47.8
	52	Toluene	91	5.929	5.929	(0.829)	7460	1.00000	1.00(M)
	53	trans-1,3-Dichloropropene	75	6.223	6.223	(0.870)	1759	1.00000	0.702(M)
	55	1,1,2-Trichloroethane	83	6.405	6.405	(0.895)	811	1.00000	0.606(M)
	56	Tetrachloroethene	166	6.437	6.437	(0.900)	1642	1.00000	0.788
	57	1,3-Dichloropropane	76	6.544	6.544	(0.915)	1753	1.00000	0.744
	59	Dibromochloromethane	129	6.720	6.720	(0.939)	1573	1.00000	0.801
	60	1,2-Dibromoethane	107	6.806	6.806	(0.951)	1411	1.00000	0.891
*	61	Chlorobenzene-d5	117	7.154	7.154	(1.000)	201493	50.0000	
	62	Chlorobenzene	112	7.175	7.175	(1.003)	4233	1.00000	0.915
	63	1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	1283	1.00000	0.743
	64	Ethylbenzene	106	7.255	7.255	(1.014)	2446	1.00000	0.992
	65	m&p-Xylene	106	7.346	7.346	(1.027)	5588	2.00000	1.85
	67	o-Xylene	106	7.592	7.592	(1.061)	2838	1.00000	0.975(M)
	68	Styrene	104	7.608	7.608	(1.064)	4967	1.00000	0.998
	70	Isopropylbenzene	105	7.817	7.817	(1.093)	6630	1.00000	0.877(M)
$	72	4-Bromofluorobenzene	95	7.919	7.919	(1.107)	96394	50.0000	51.0
	74	Bromobenzene	77	7.983	7.983	(1.116)	2762	1.00000	0.990
	71	trans-1,4-Dichloro-2-butene	53	8.031	8.031	(1.123)	667	1.00000	1.11(M)
	75	1,2,3-Trichloropropane	110	8.036	8.036	(0.942)	528	1.00000	0.972
	76	n-Propylbenzene	91	8.052	8.052	(0.944)	7933	1.00000	0.921
	77	2-Chlorotoluene	91	8.095	8.095	(0.949)	4429	1.00000	0.906
	78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	5721	1.00000	1.03
	79	4-Chlorotoluene	126	8.165	8.165	(0.957)	1838	1.00000	0.995
	80	tert-Butylbenzene	119	8.315	8.315	(0.974)	5354	1.00000	0.888(M)
	81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	6020	1.00000	1.09
	82	sec-Butylbenzene	105	8.432	8.432	(0.988)	6875	1.00000	0.922(M)
	83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	3447	1.00000	0.997
	84	p-Isopropyltoluene	119	8.513	8.513	(0.997)	5993	1.00000	0.971
*	85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	103035	50.0000	
	86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	3683	1.00000	1.03
	87	n-Butylbenzene	91	8.710	8.710	(1.021)	5938	1.00000	0.970(M)
	88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	3243	1.00000	0.965
	89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	370	1.00000	0.911(M)
	90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	2599	1.00000	1.01
	91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	1258	1.00000	0.836
	92	Naphthalene	128	9.566	9.566	(1.121)	8430	1.00000	1.23
	93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	2588	1.00000	1.02
	94	2,methyl-naphthalene	142	10.069	10.069	(1.180)	5883	1.00000	1.52
	148	1-Methylnaphthalene	141	10.155	10.155	(1.190)	4770	1.00000	1.36

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

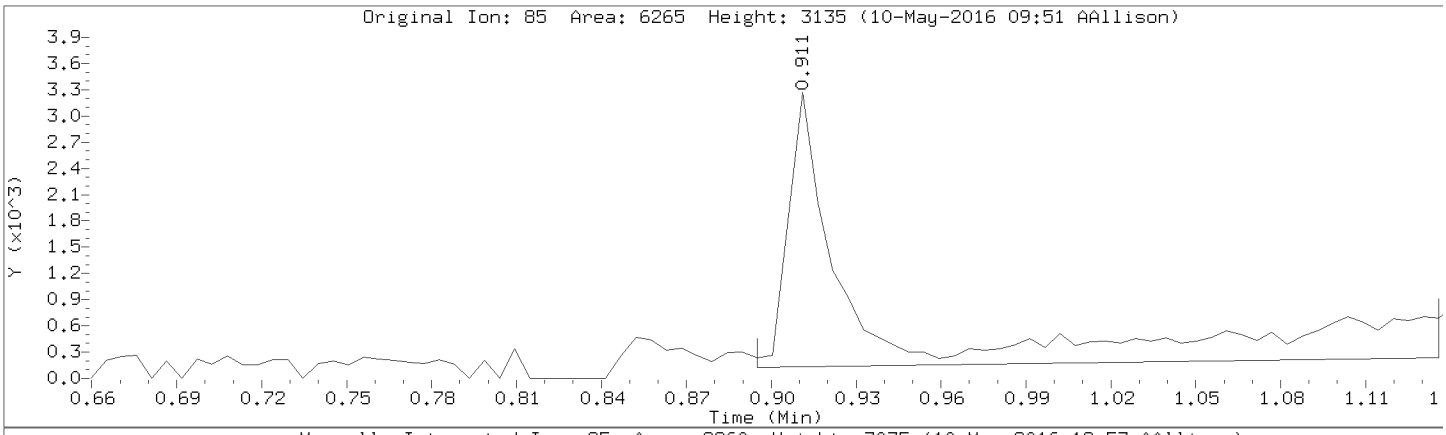
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a01.d
Date : 09-MAY-2016 19:37
Client ID: 8260-CAL1
Sample Info: 8260-CAL1,121029:0
Purge Volume: 5.0
Column phase: DB-624

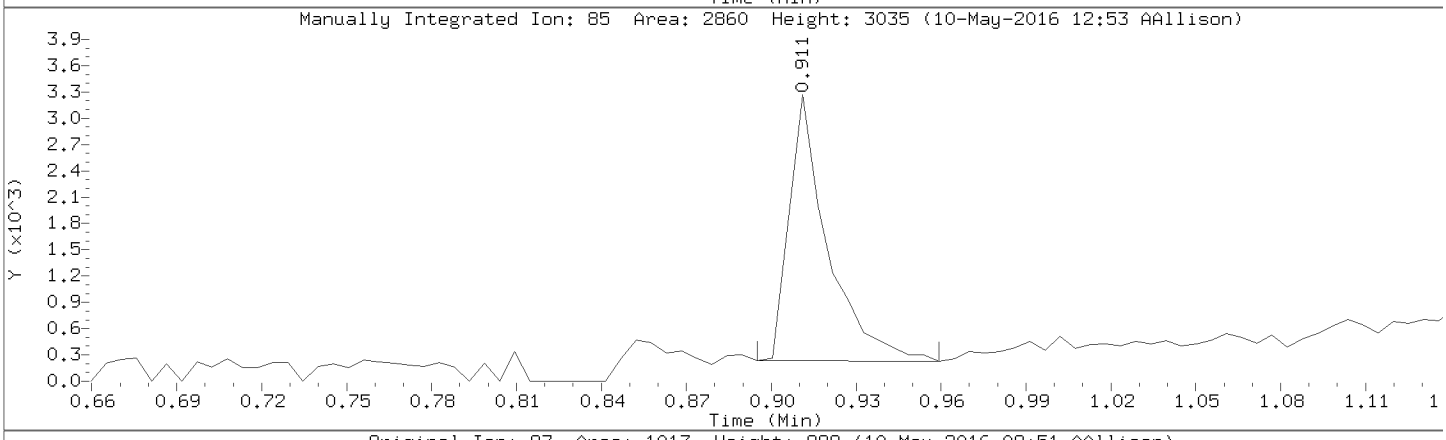
Instrument: 50mv6a.i
Operator: ala
Column diameter: 0.18

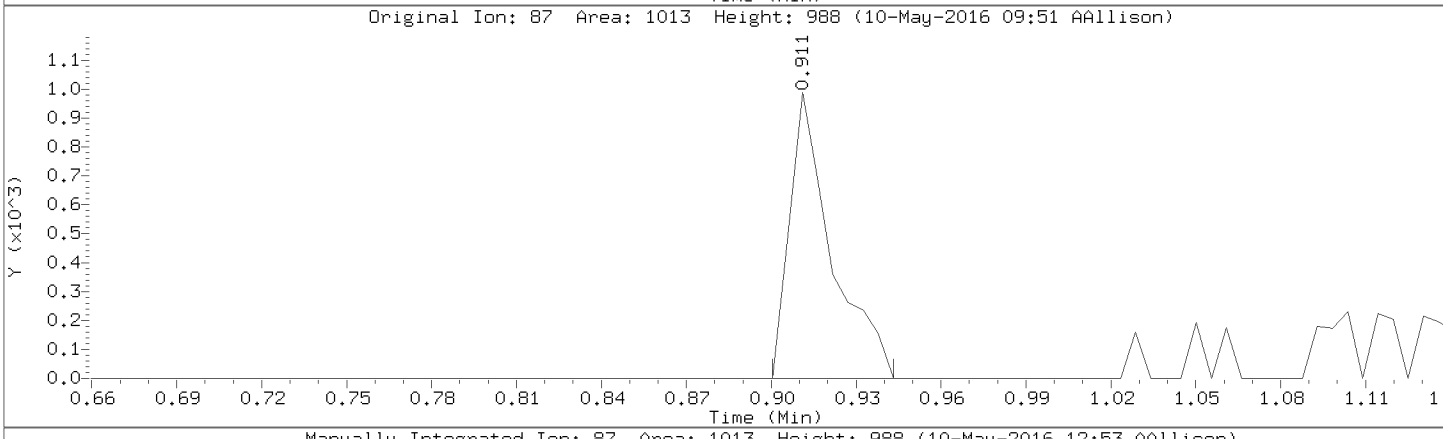


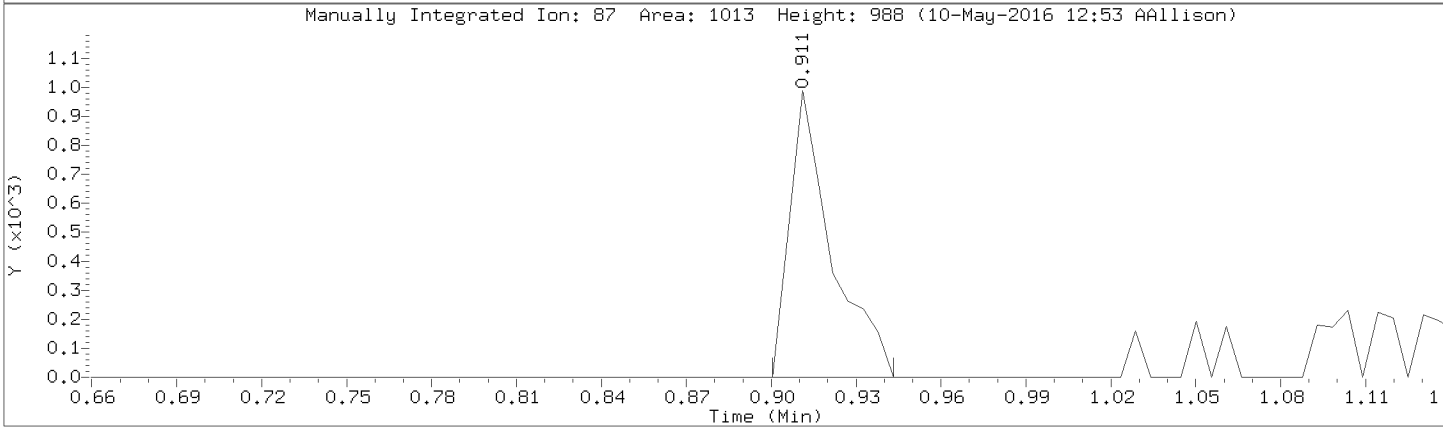
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Dichlorodifluoromethane Review Code: GT
CAS Number: 75-71-8

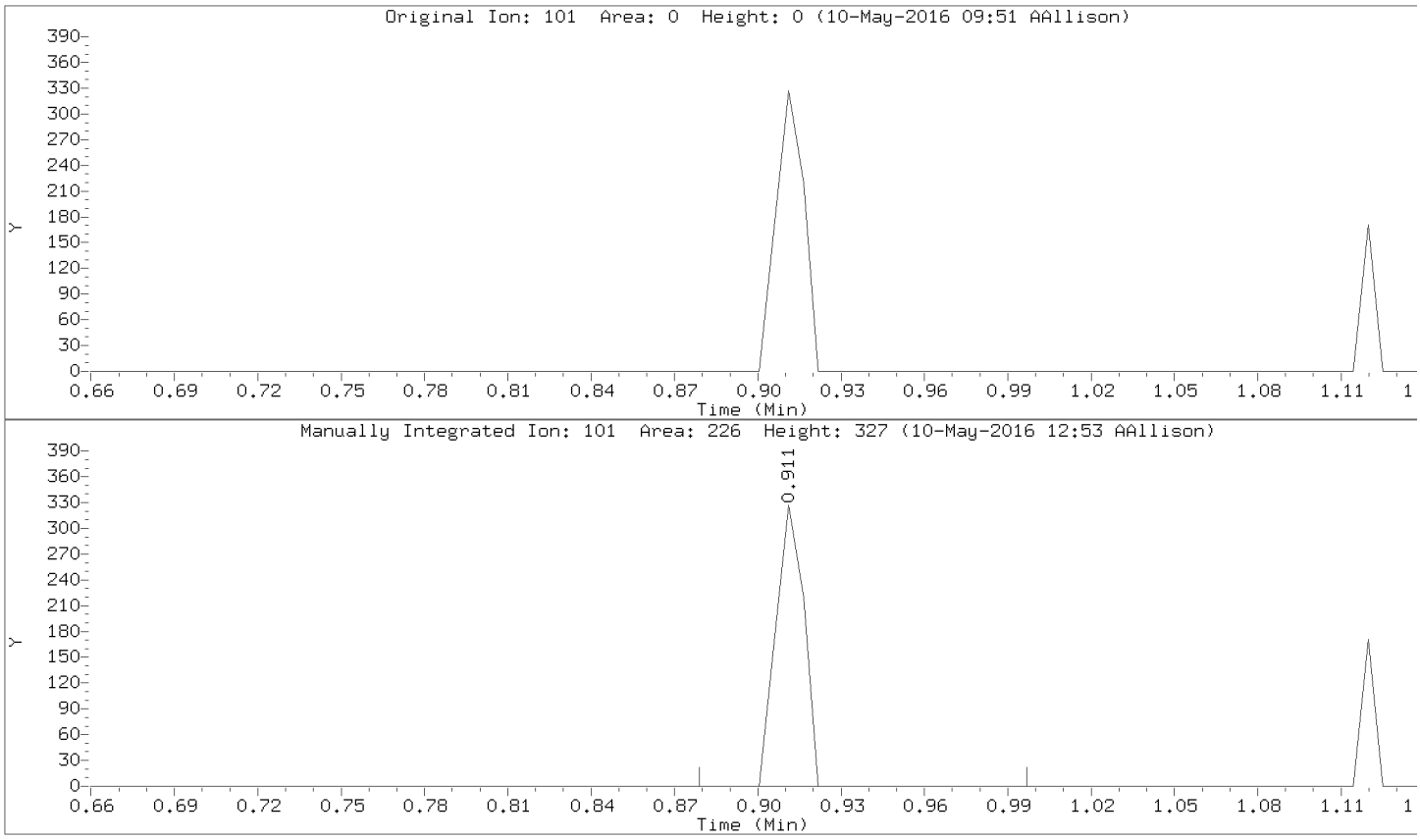






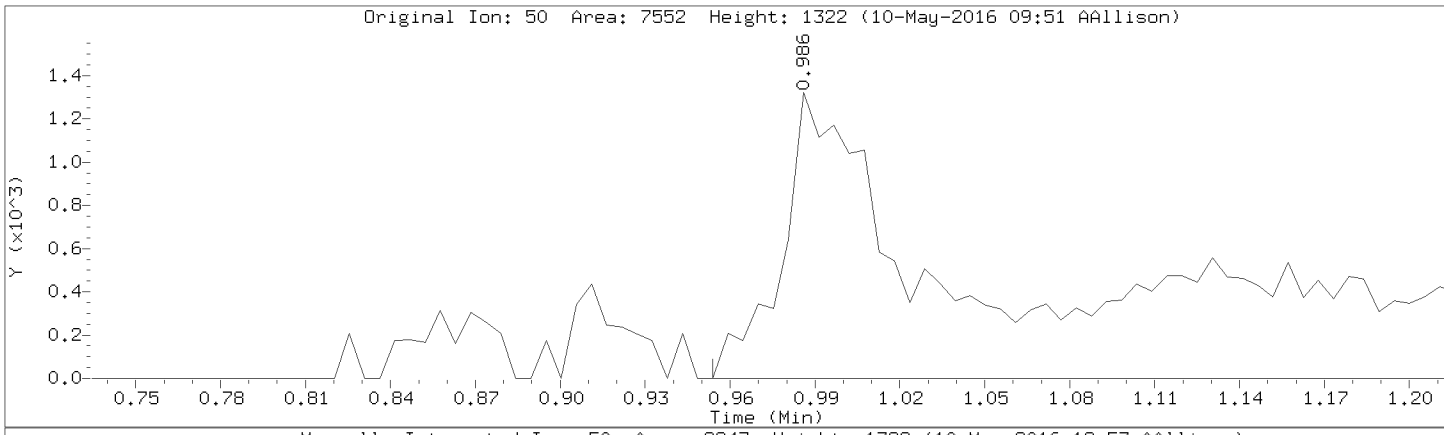


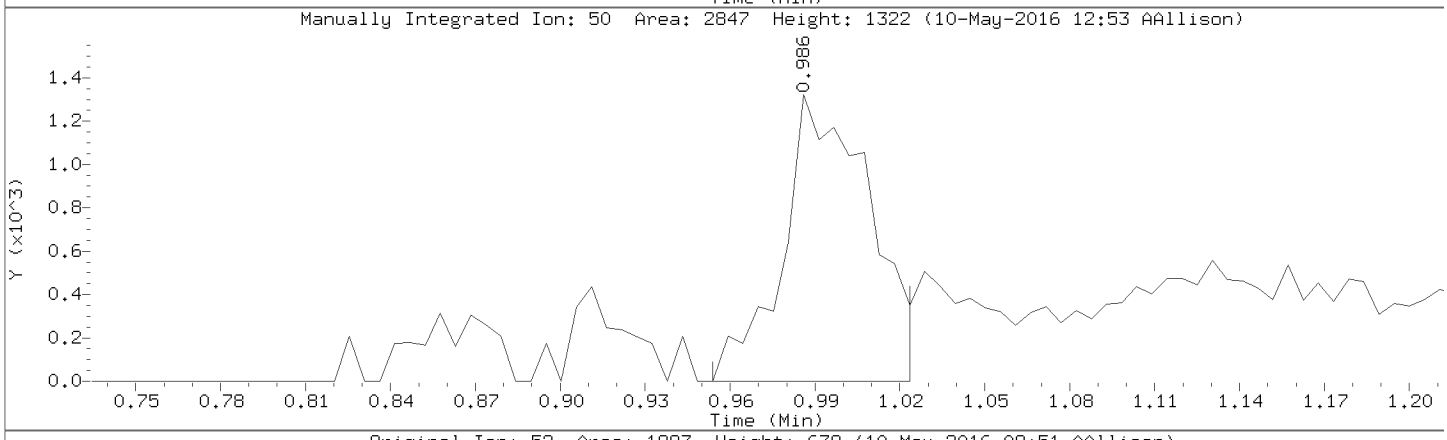
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

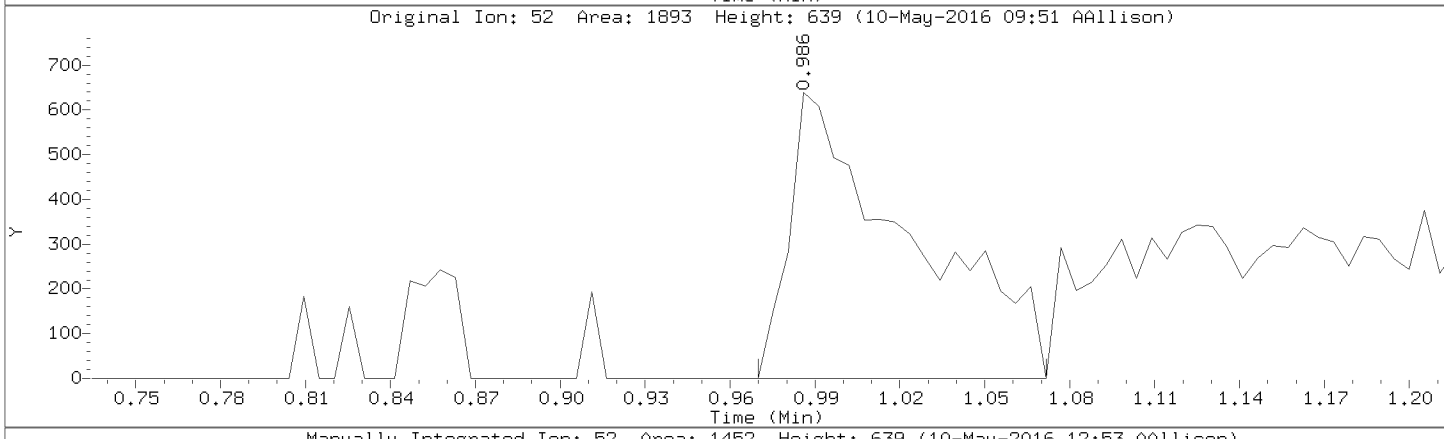


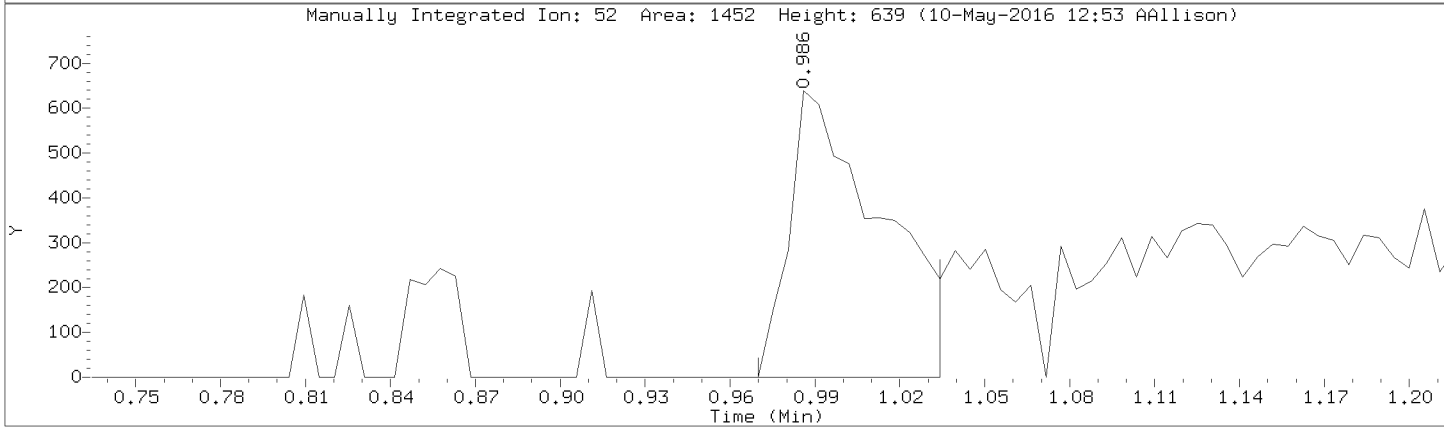
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Chloromethane Review Code: GT
CAS Number: 74-87-3



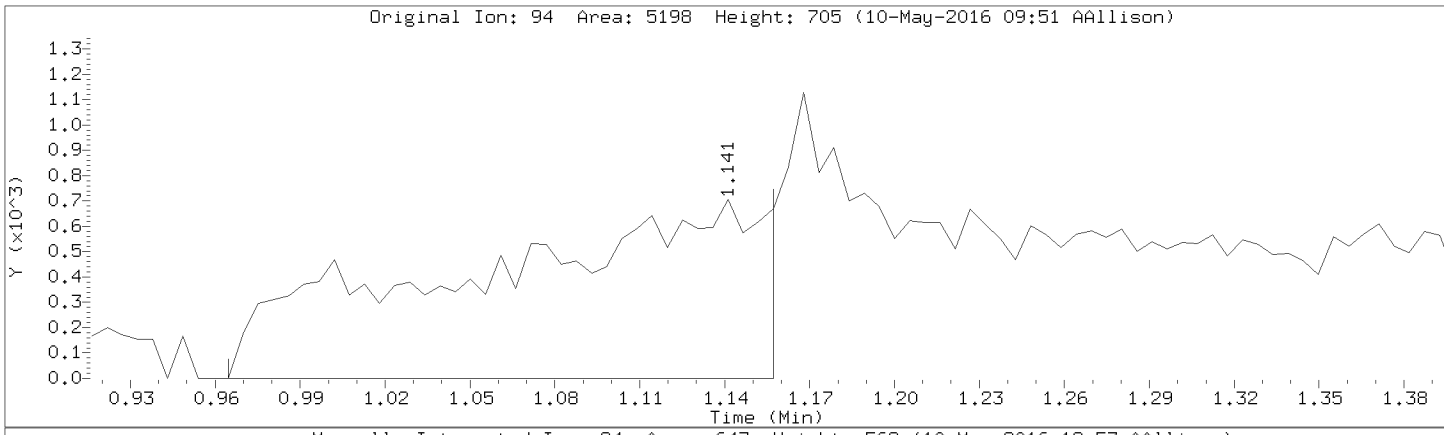


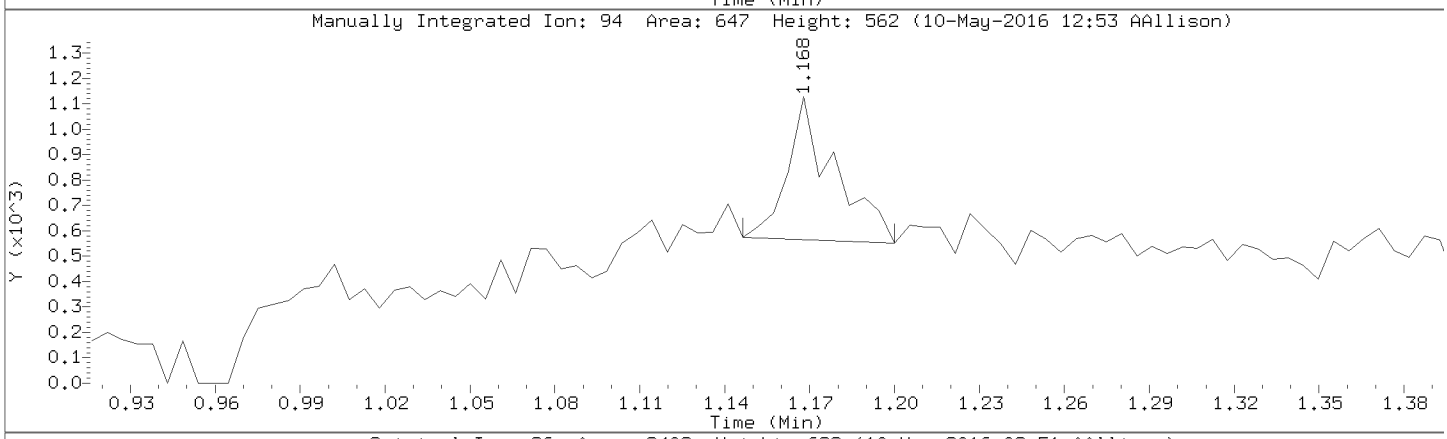


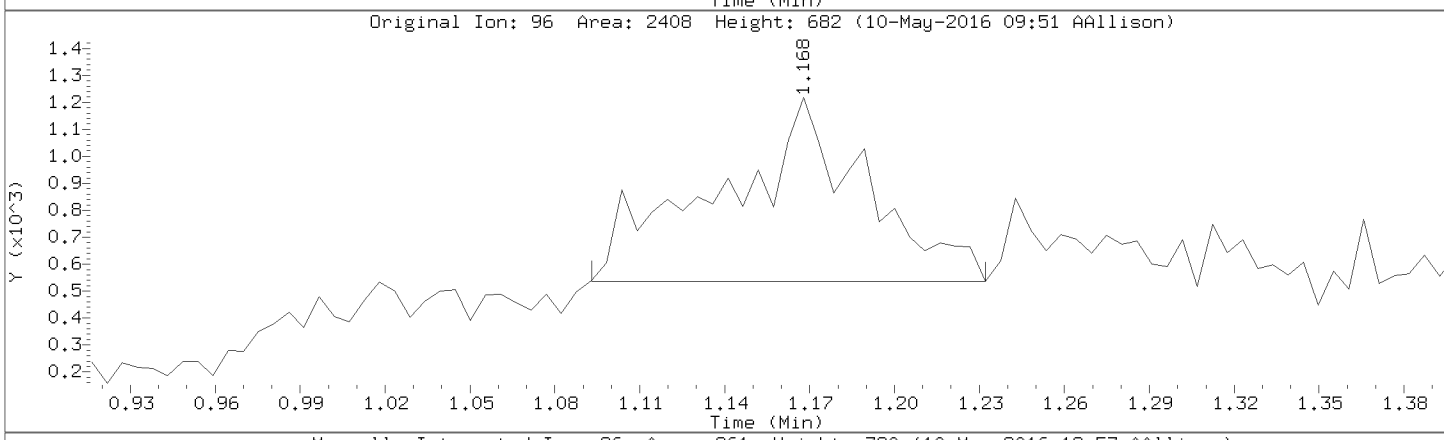


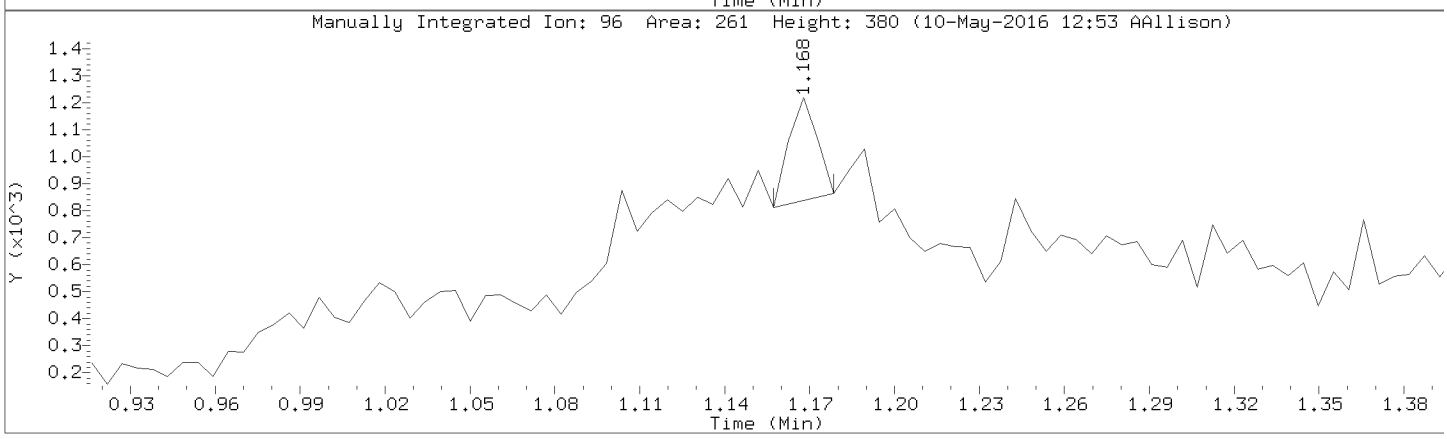
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



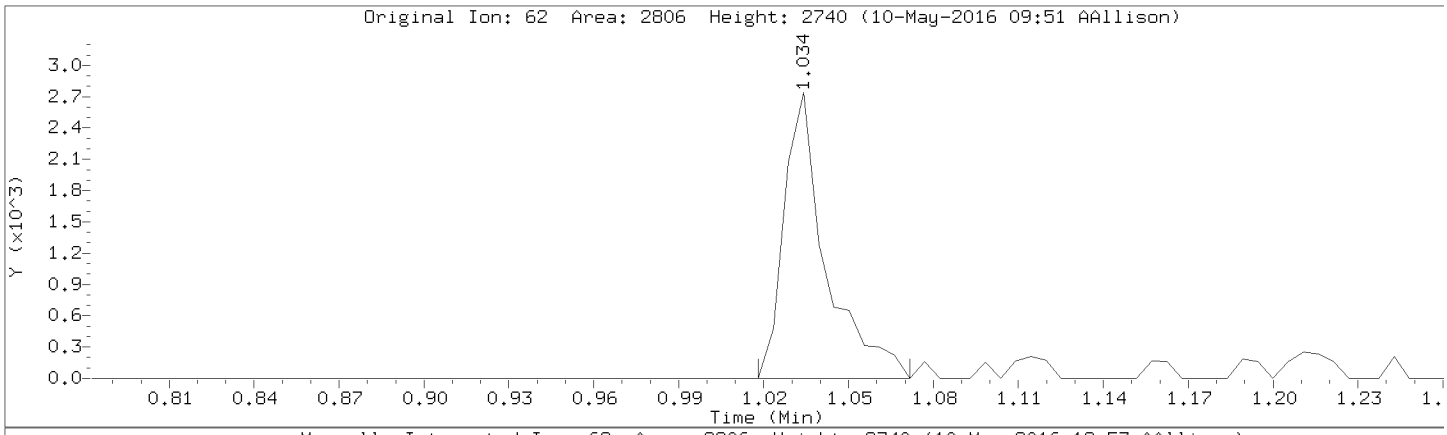


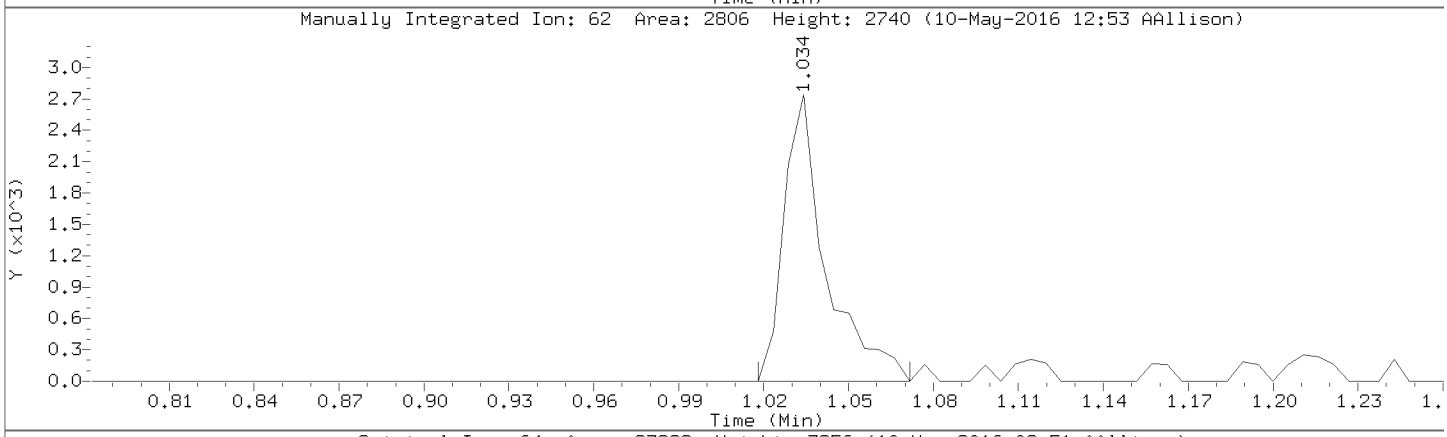


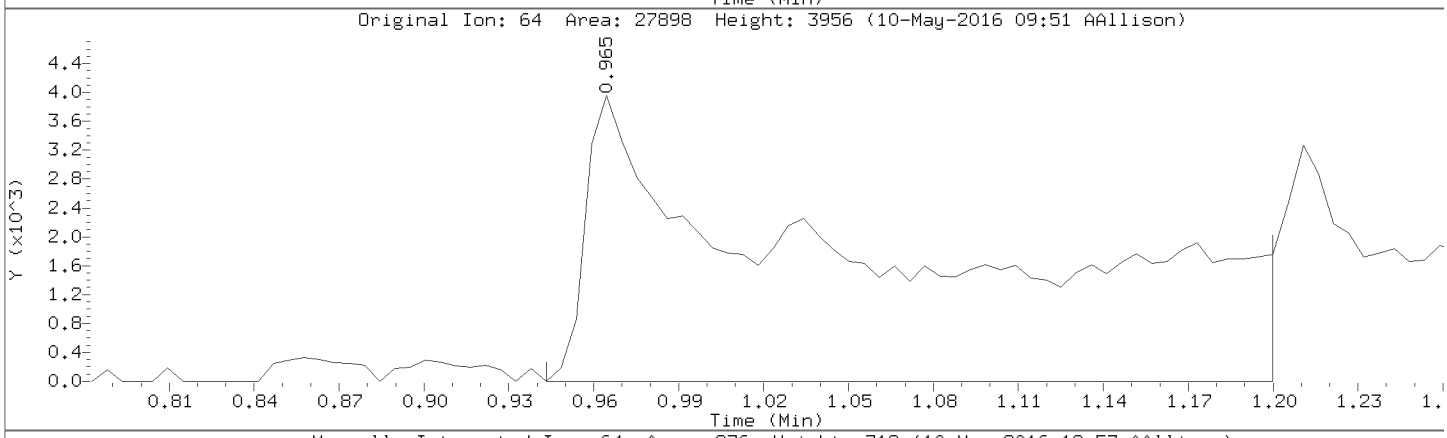


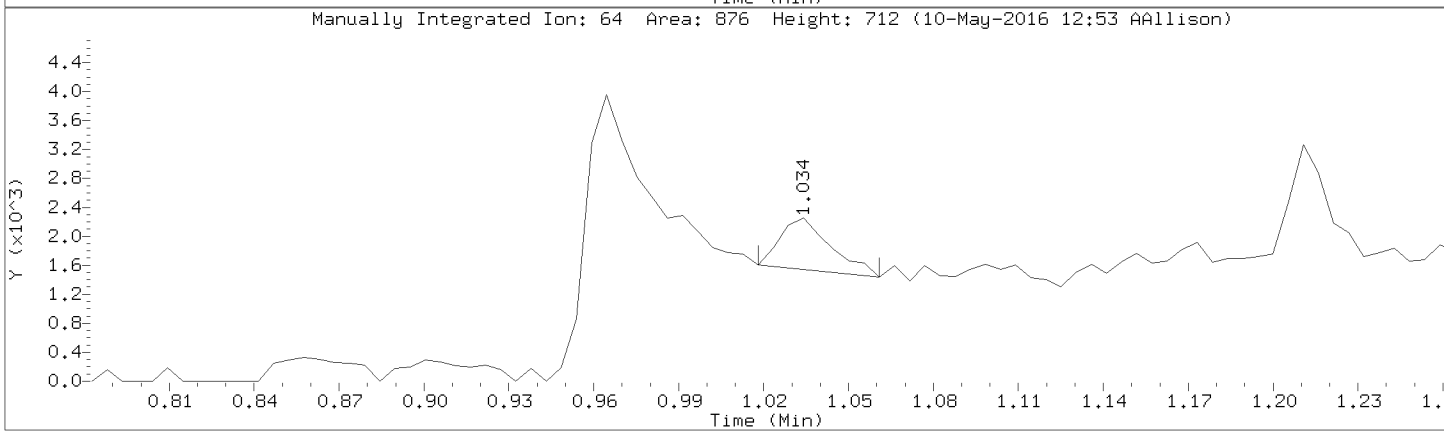
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Chloride Review Code: GT
CAS Number: 75-01-4



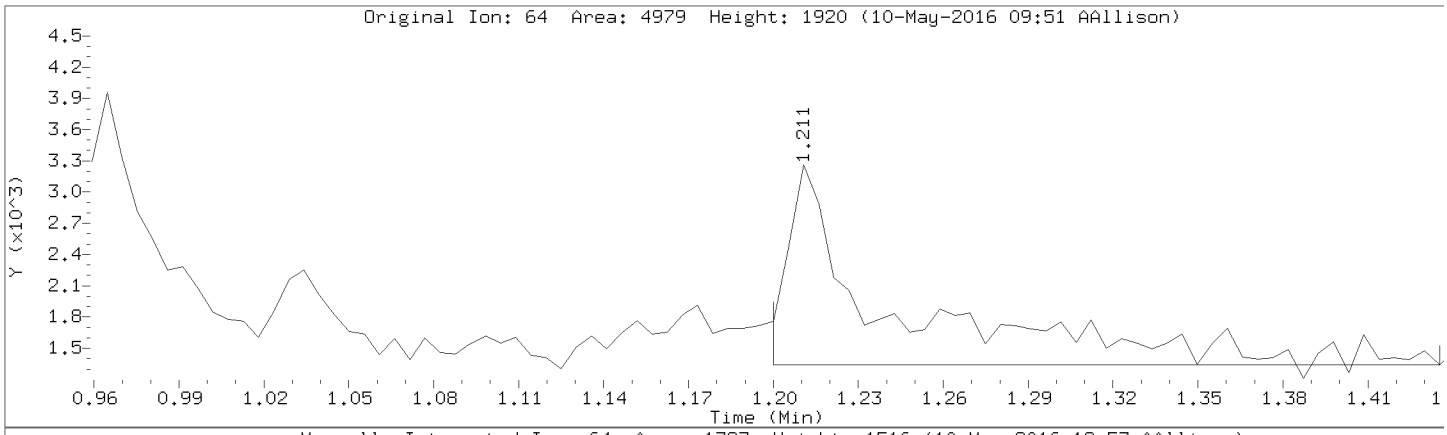


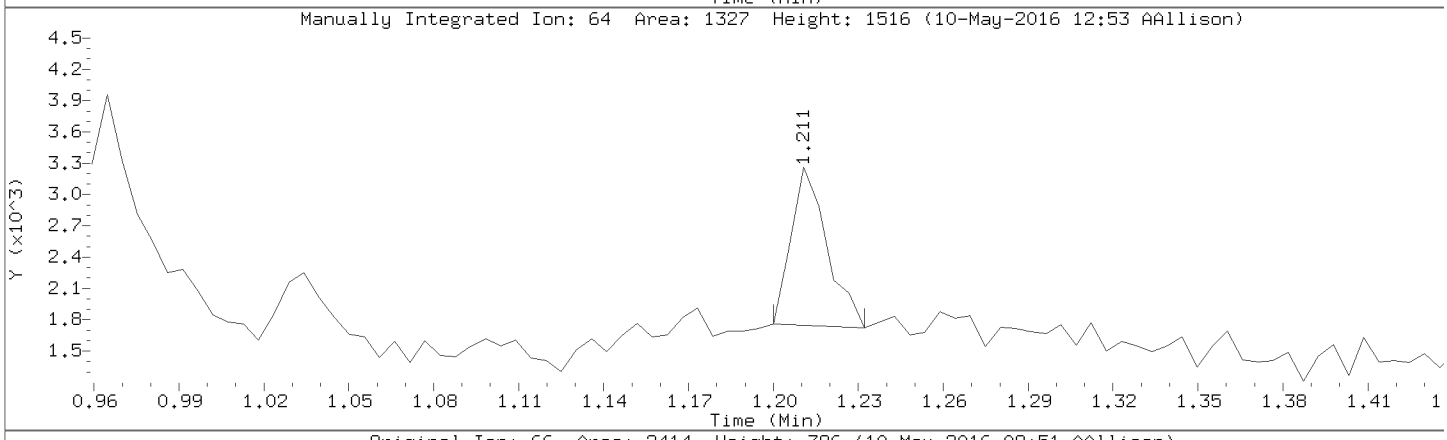


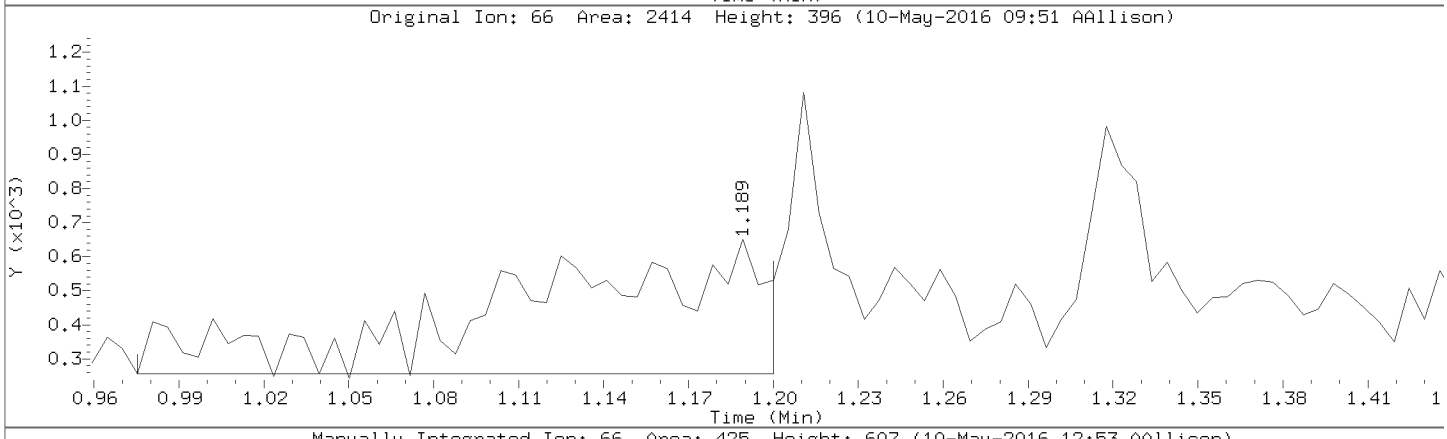


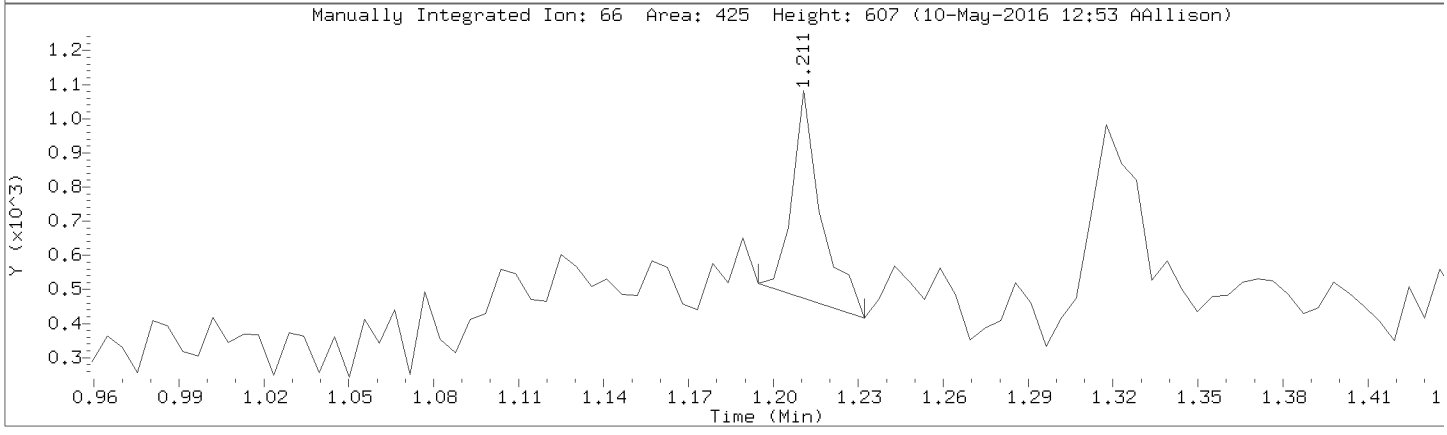
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3



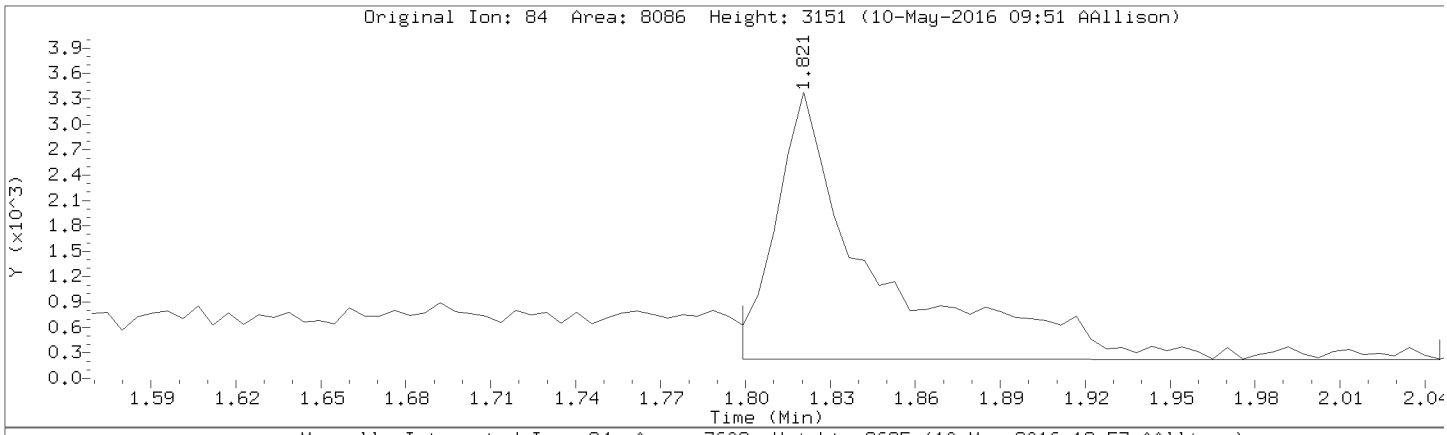


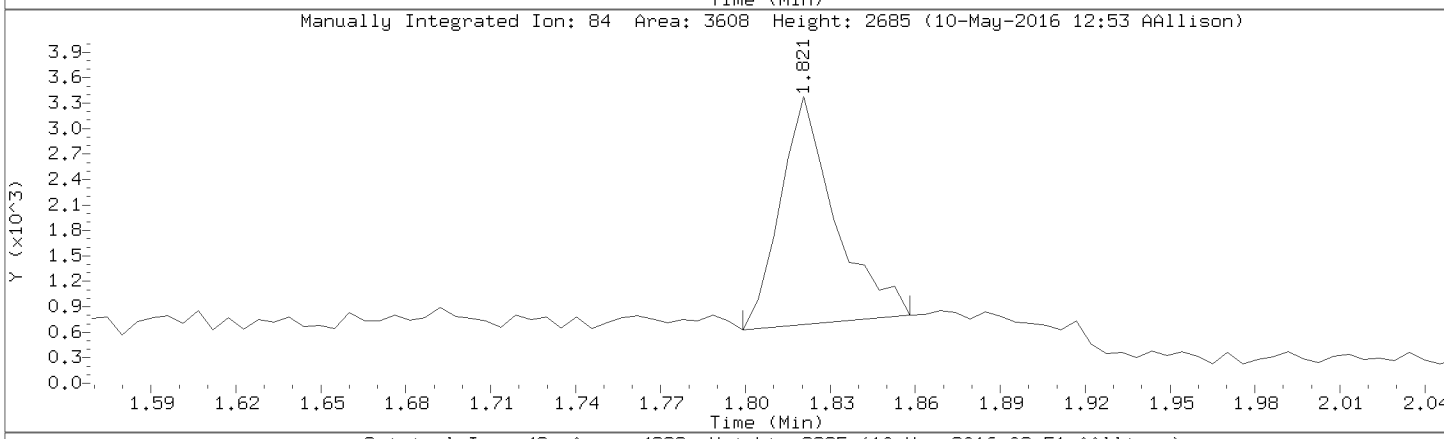


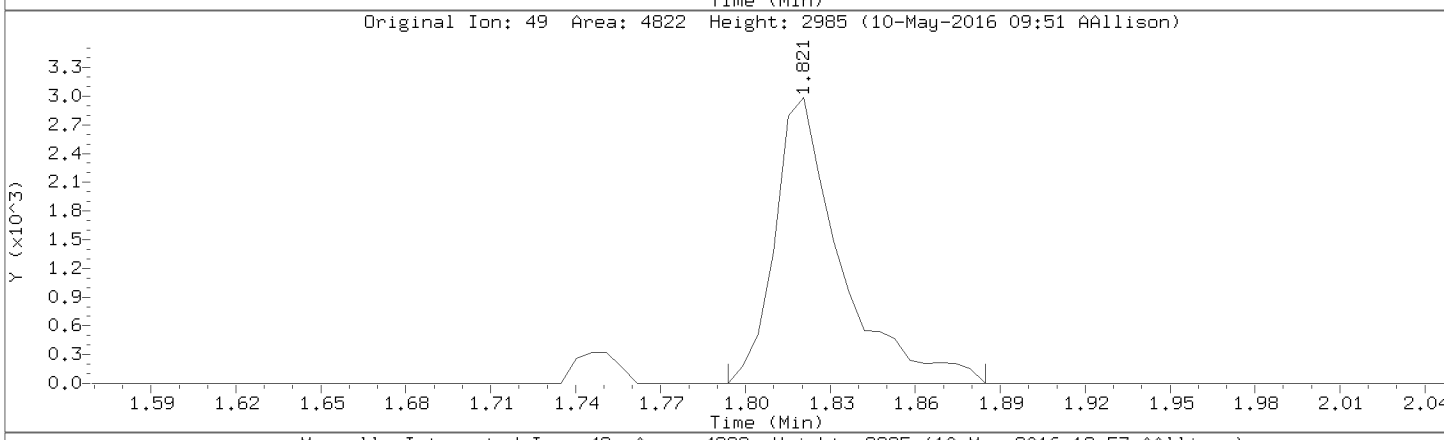


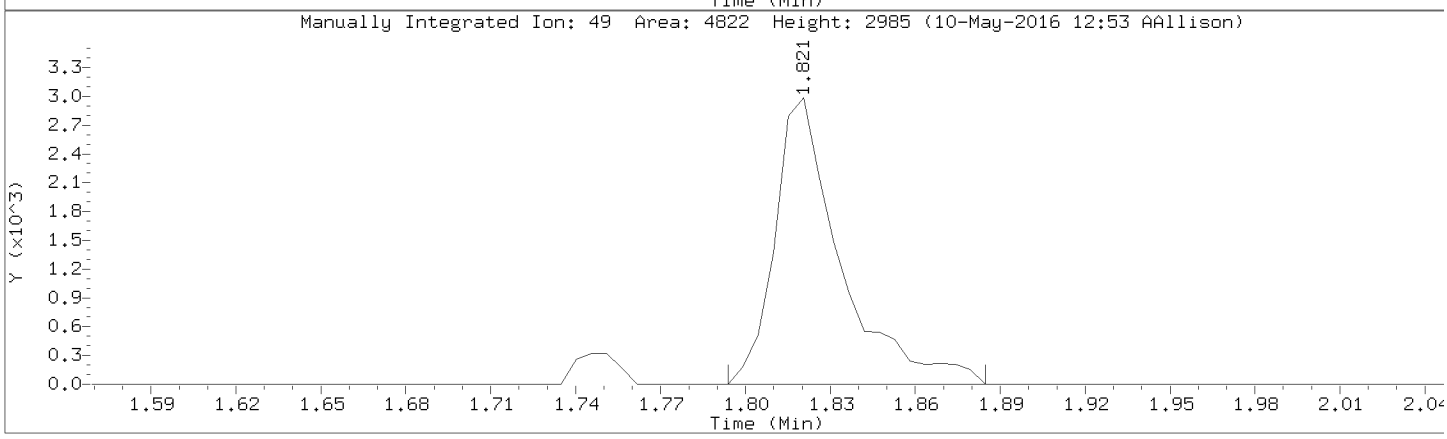
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Methylene Chloride Review Code: GT
CAS Number: 75-09-2

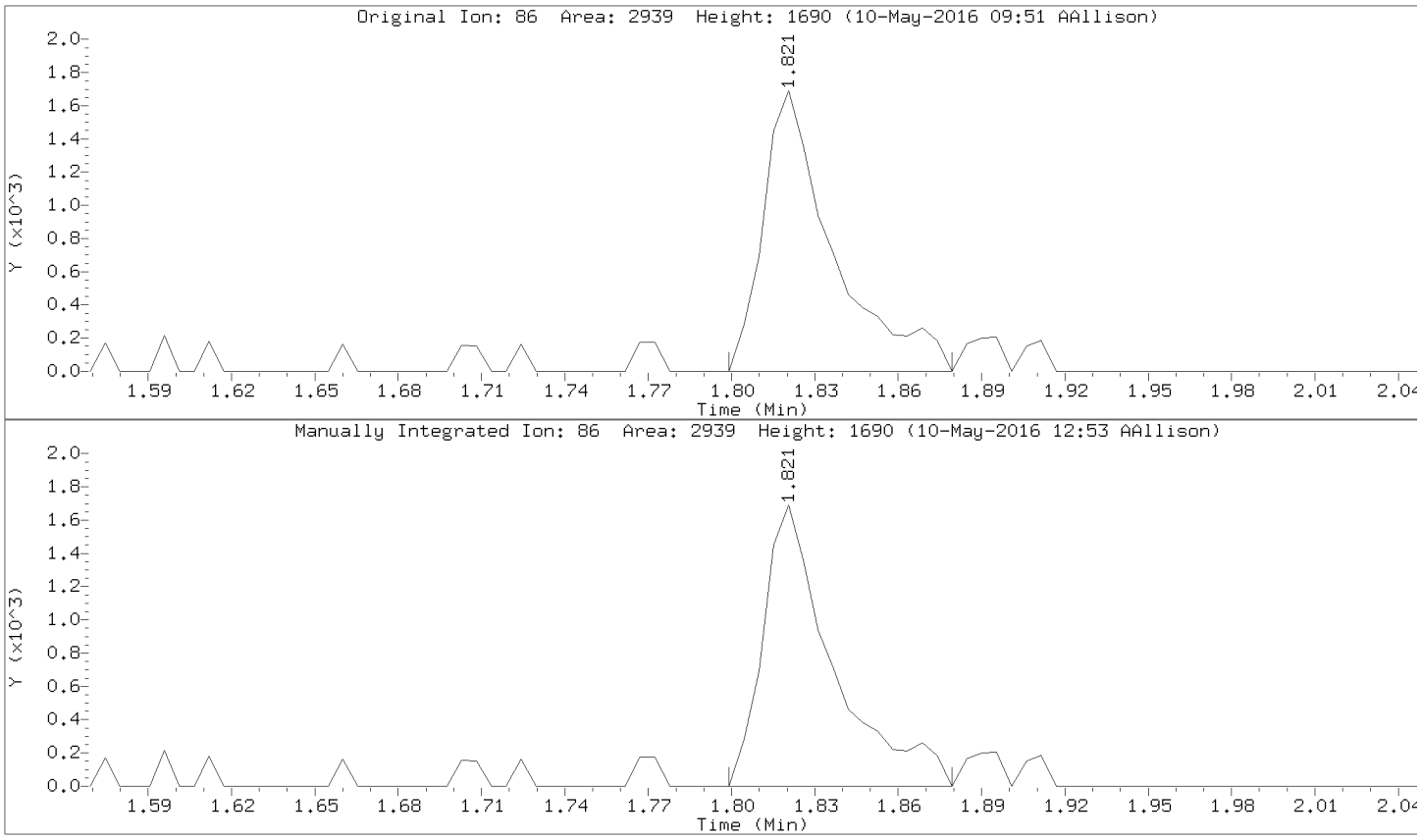






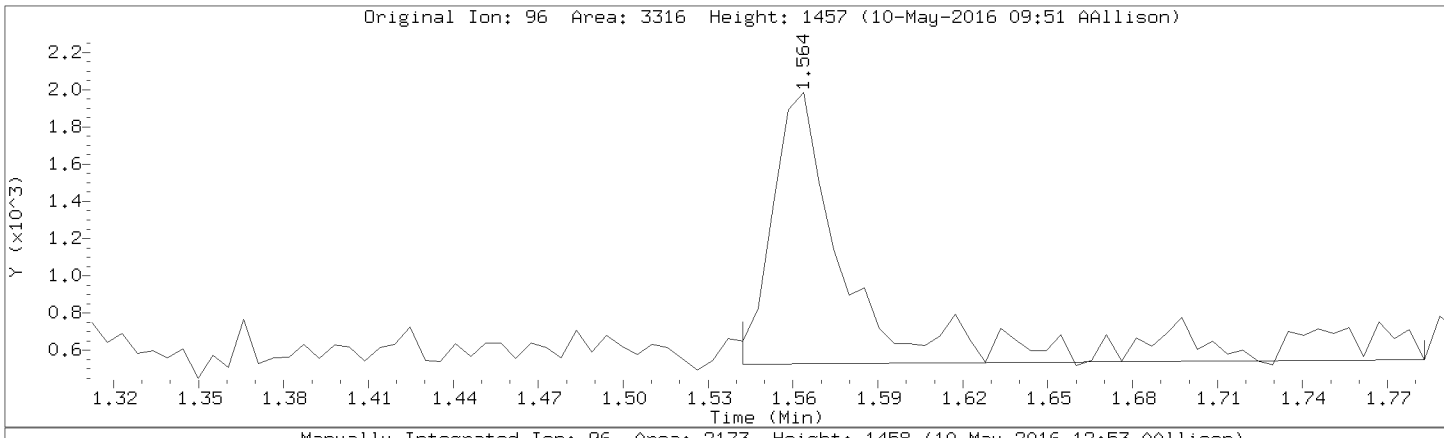


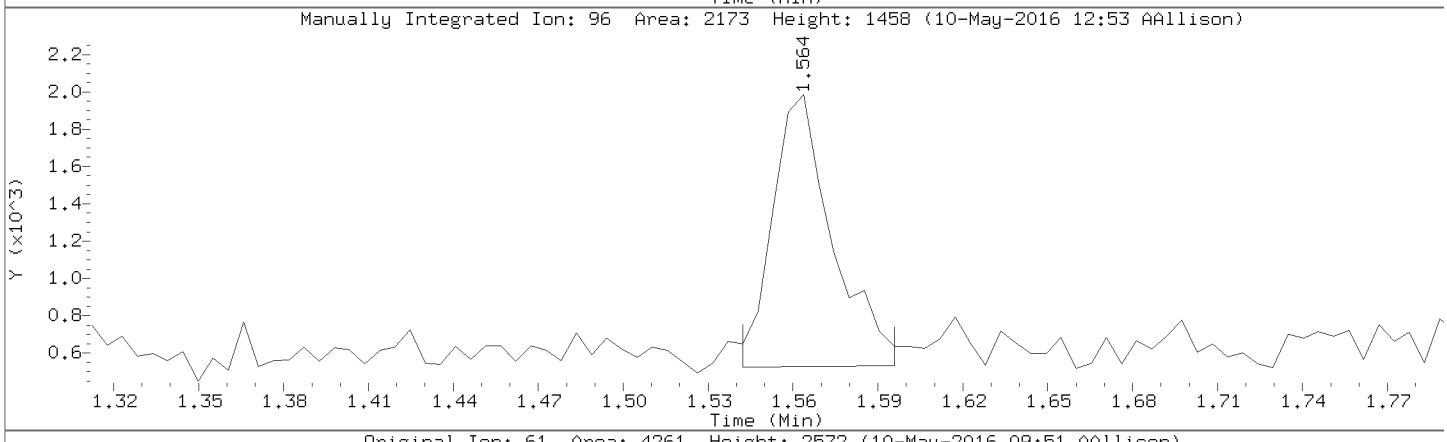
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

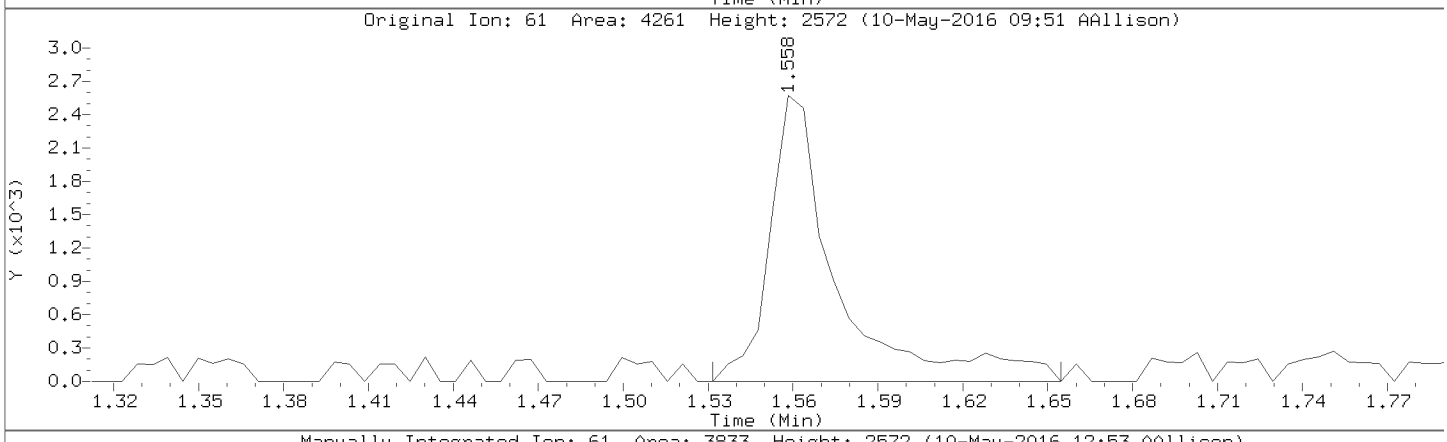


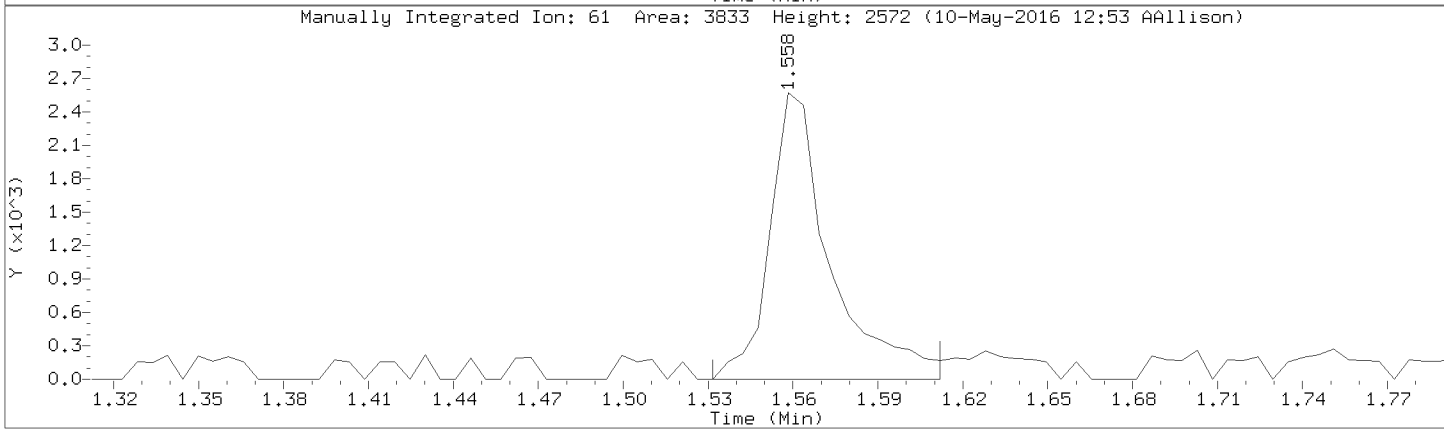
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloroethene Review Code: GT
CAS Number: 75-35-4

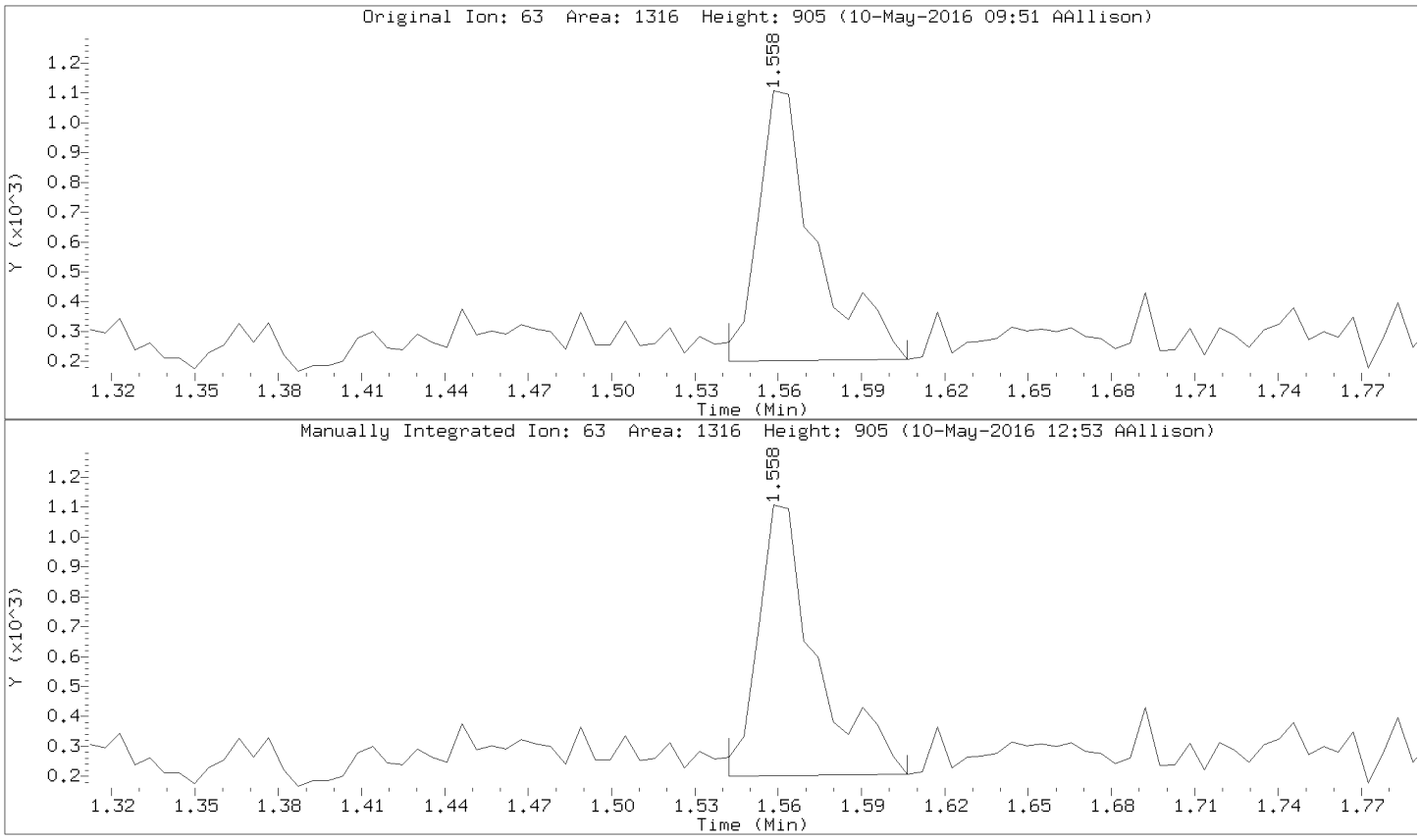






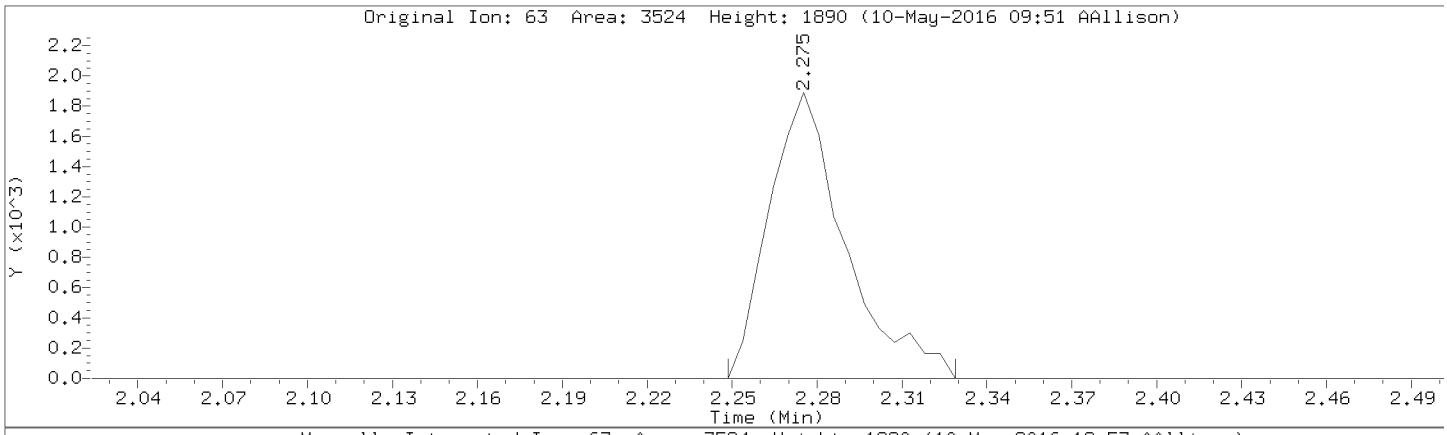


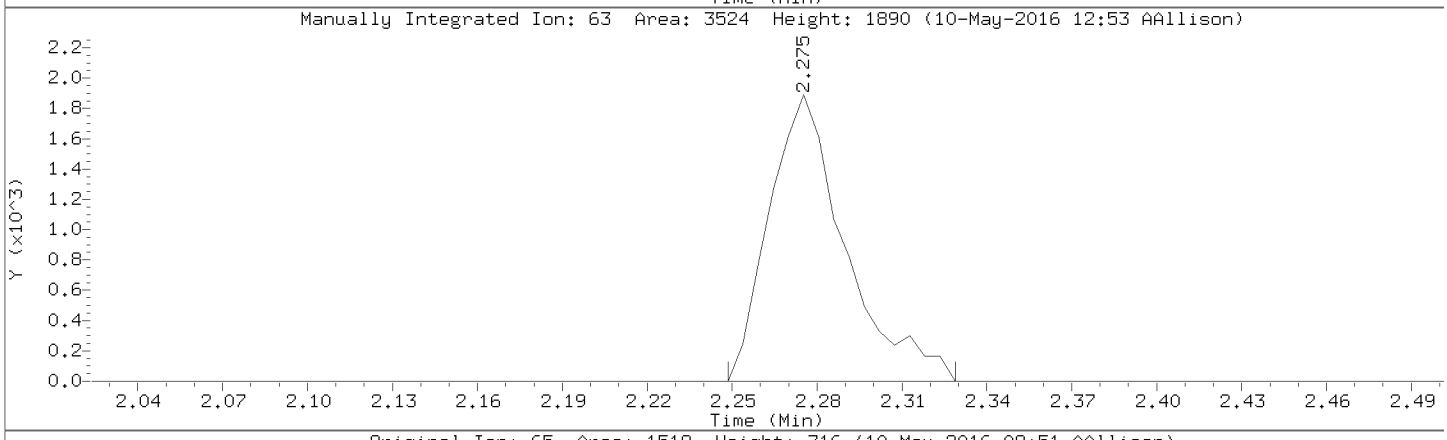
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

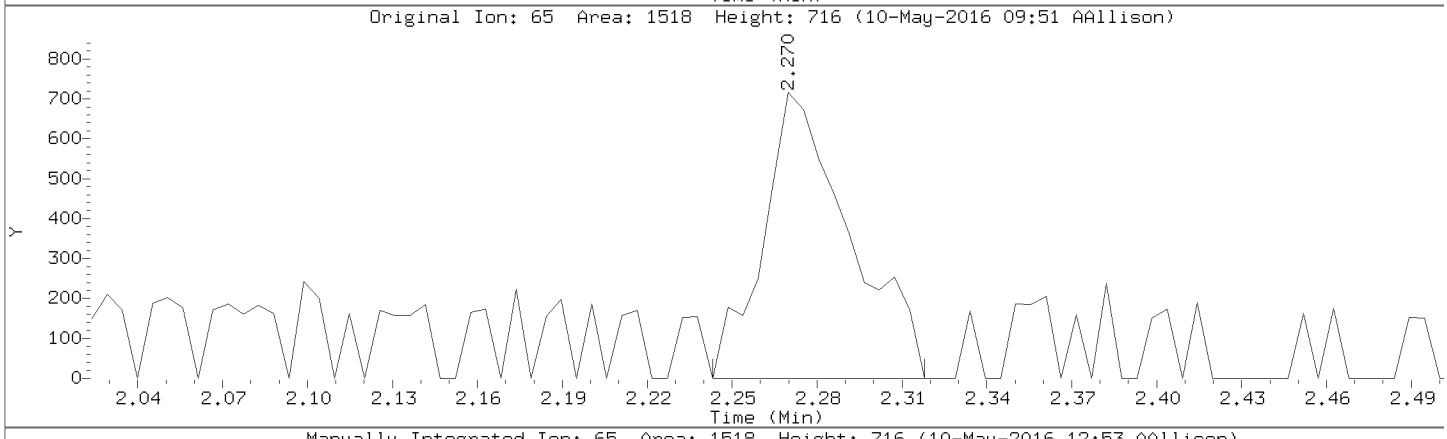


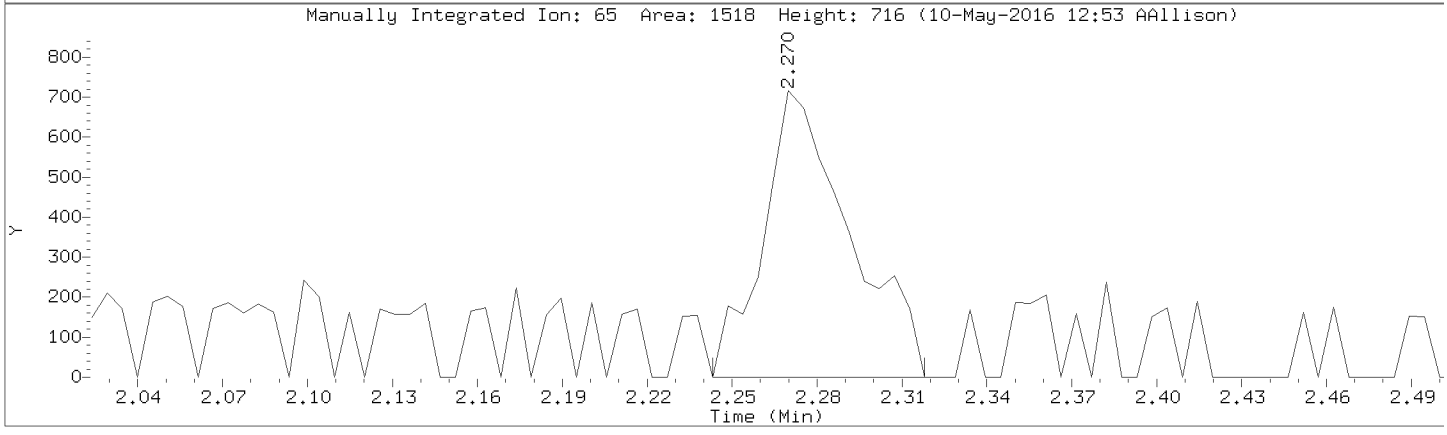
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloroethane Review Code: GT
CAS Number: 75-34-3

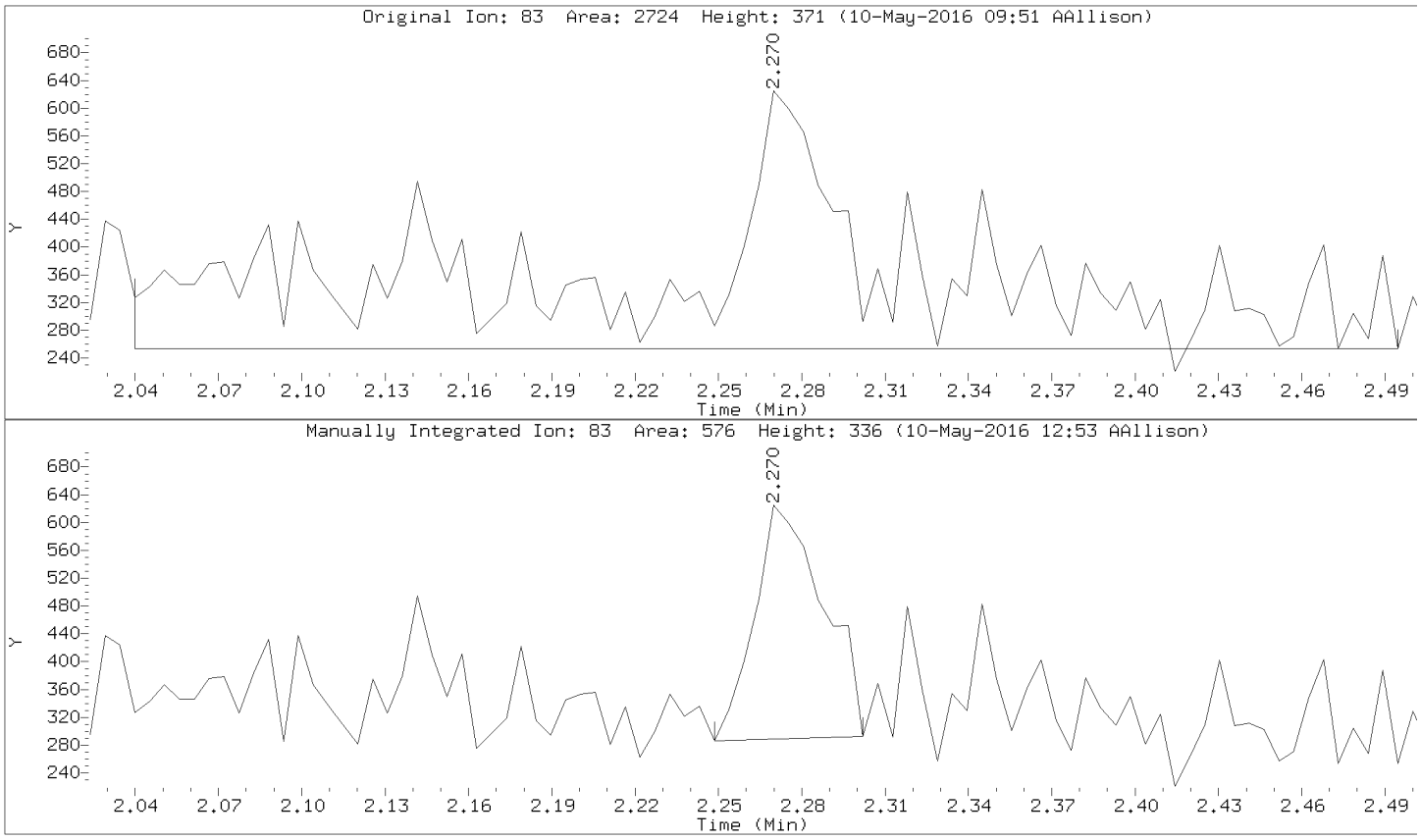






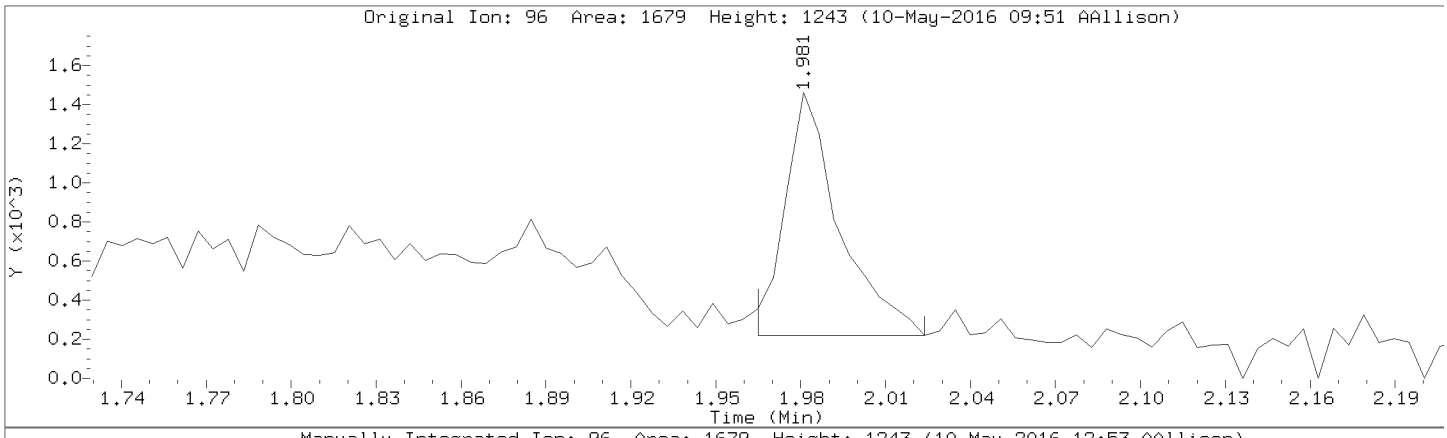


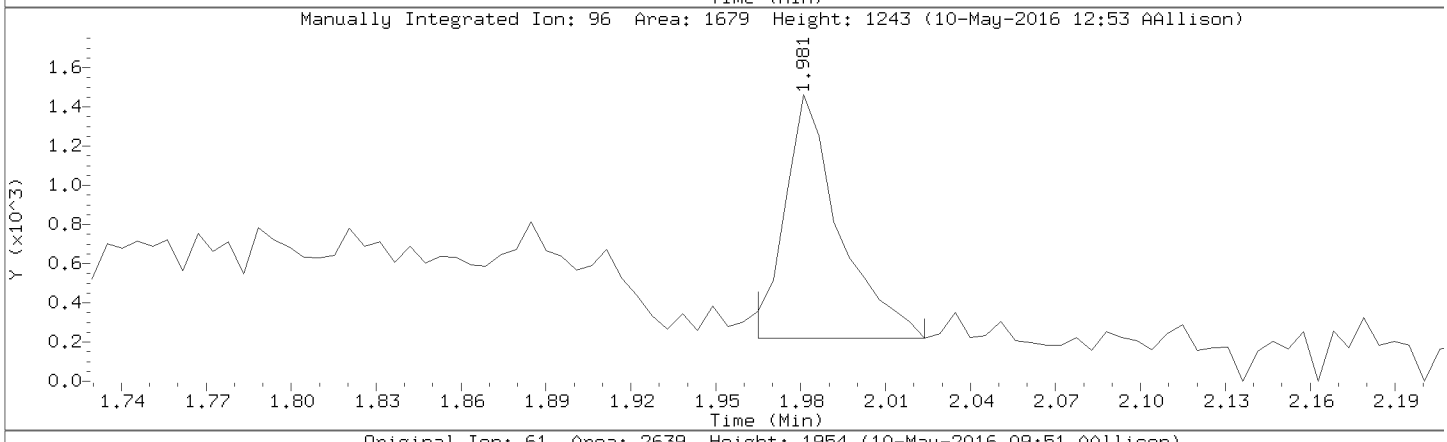
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

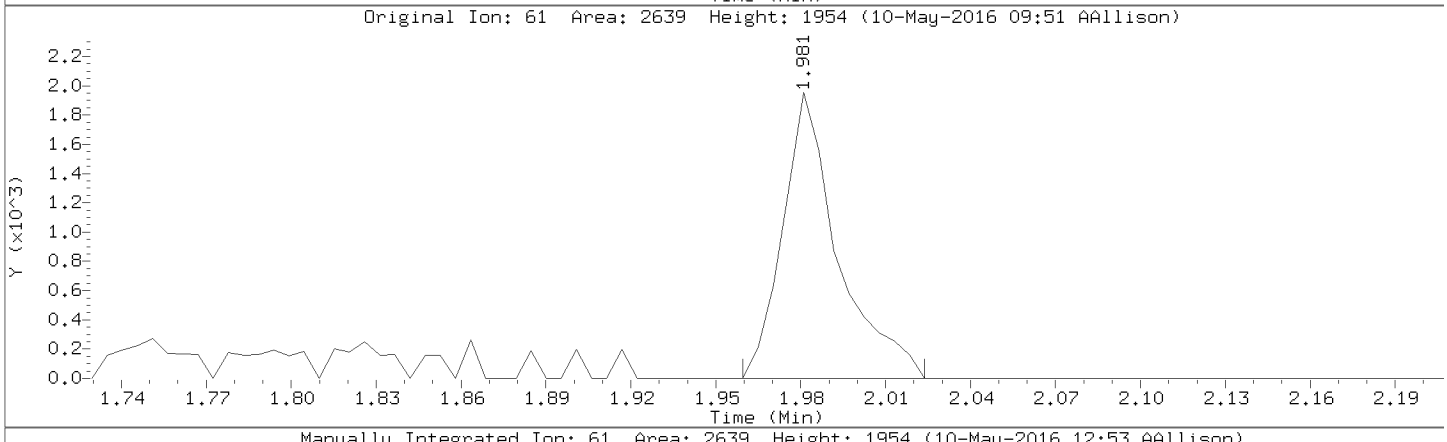


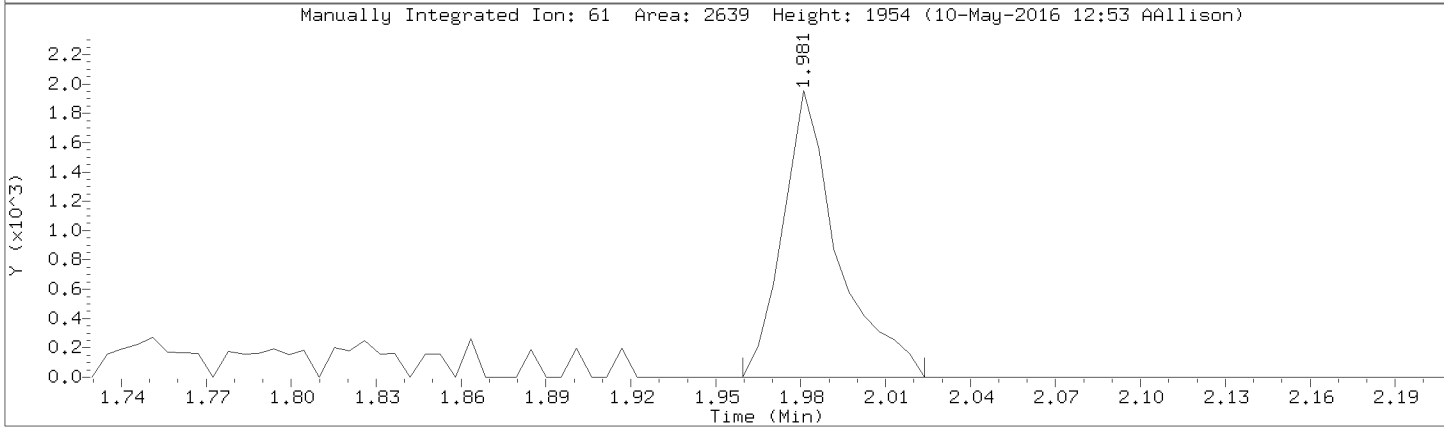
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichloroethene (trans) Review Code: GT
CAS Number: 156-60-5

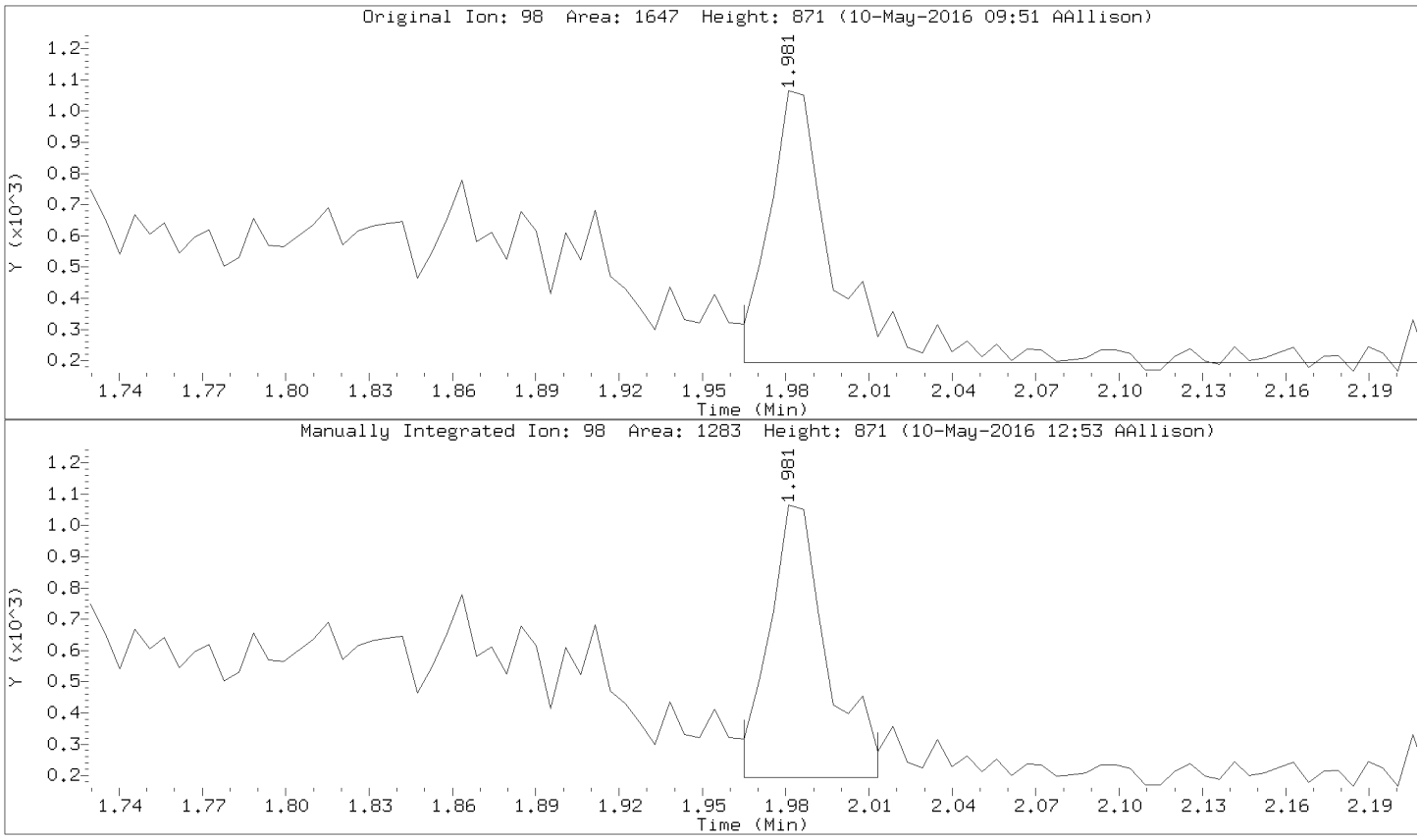






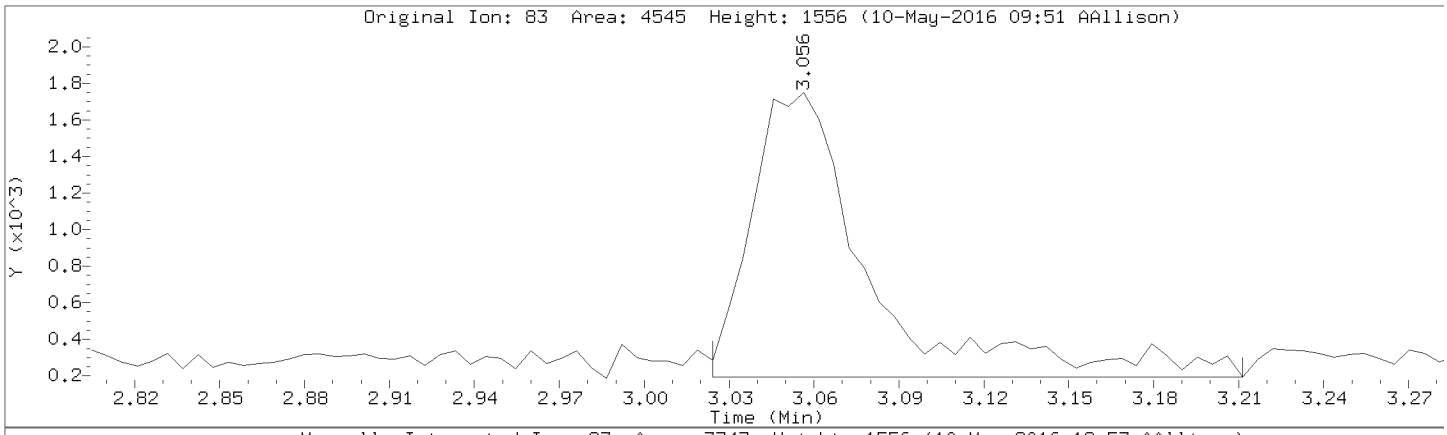


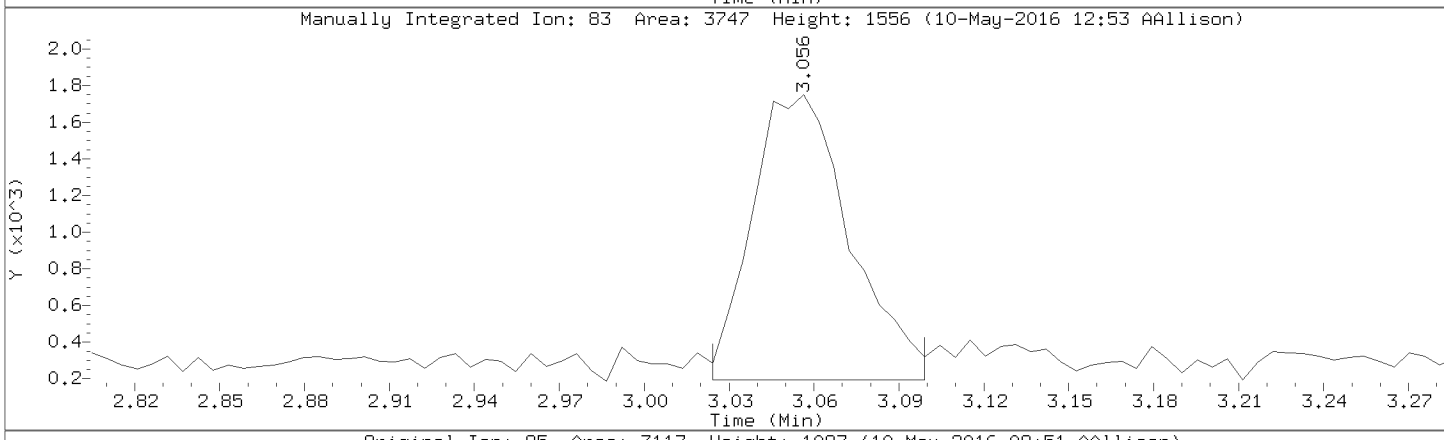
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

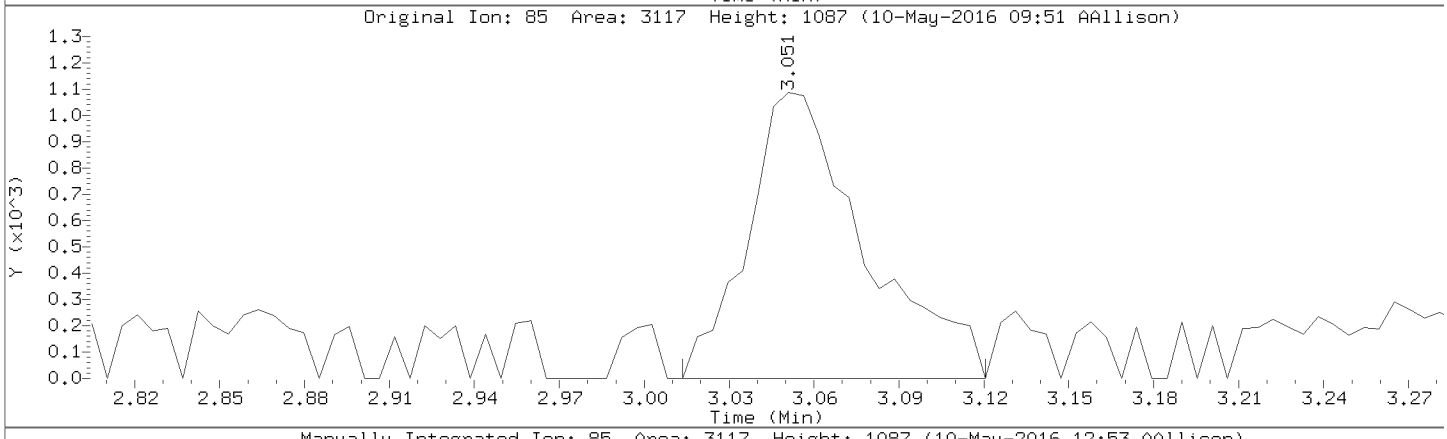


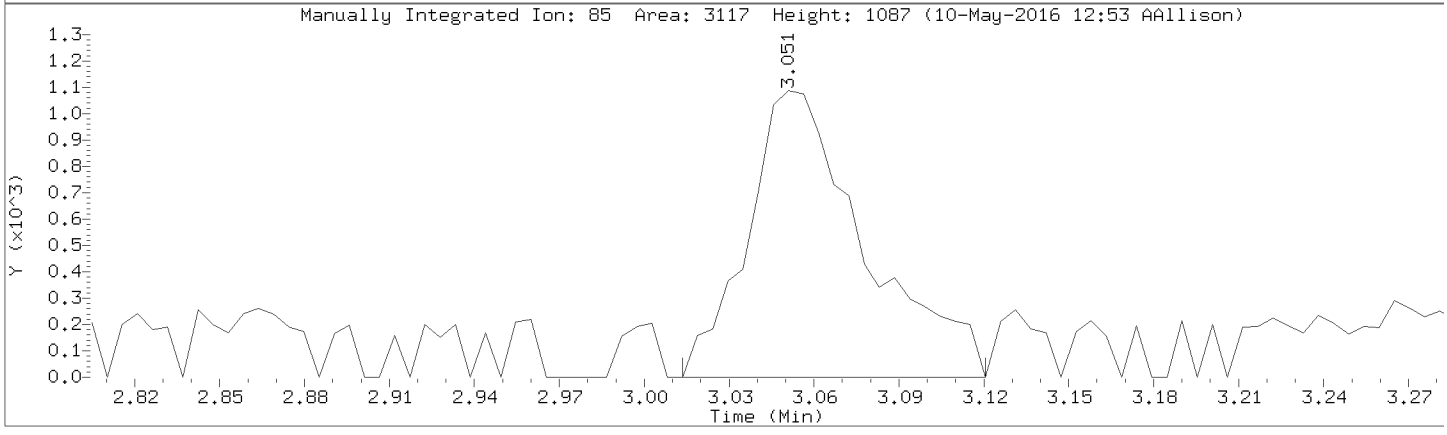
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Chloroform Review Code: GT
CAS Number: 67-66-3



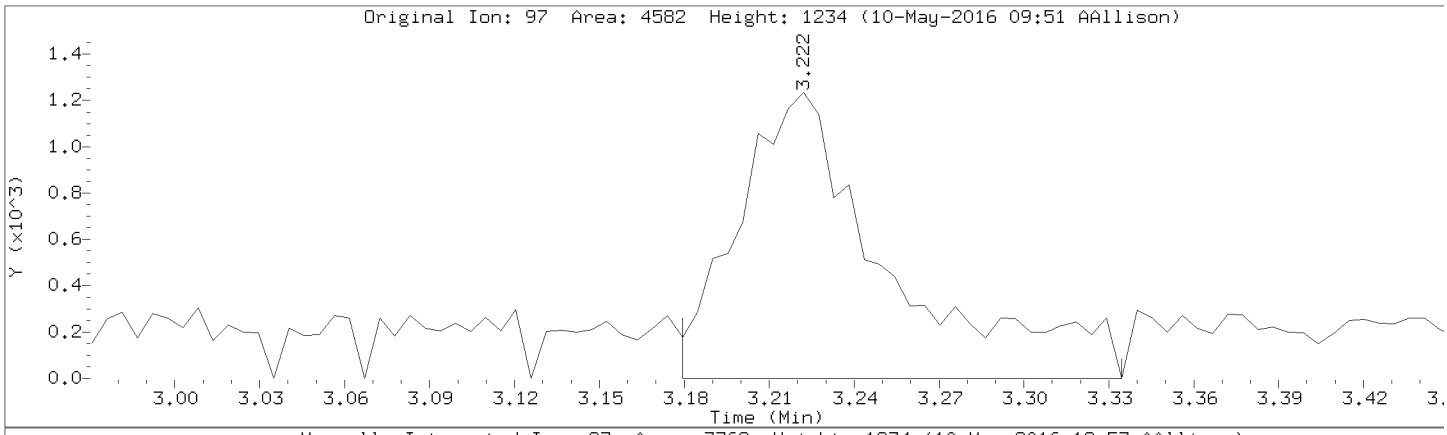


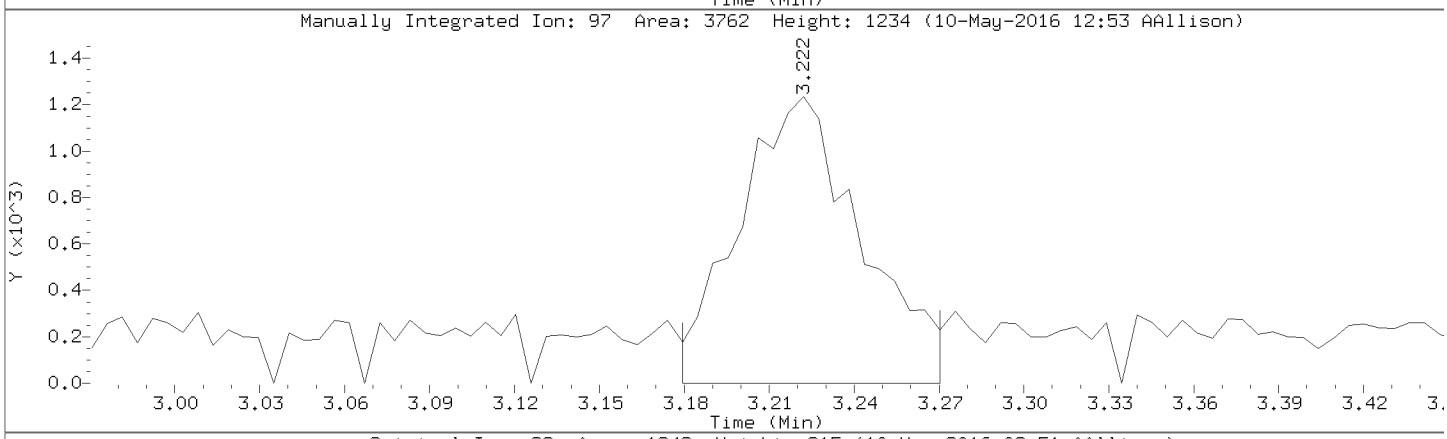


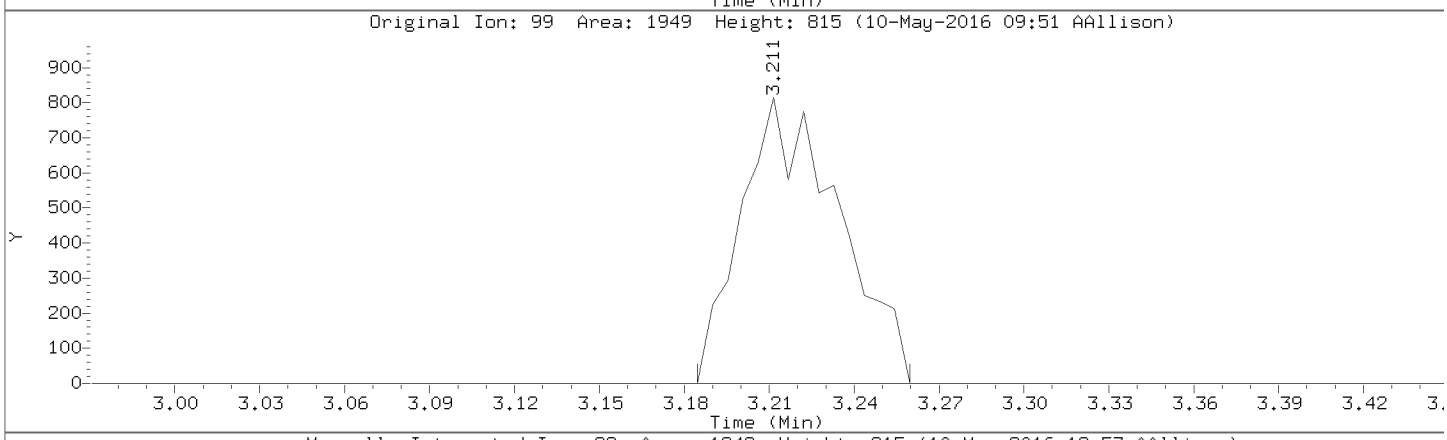


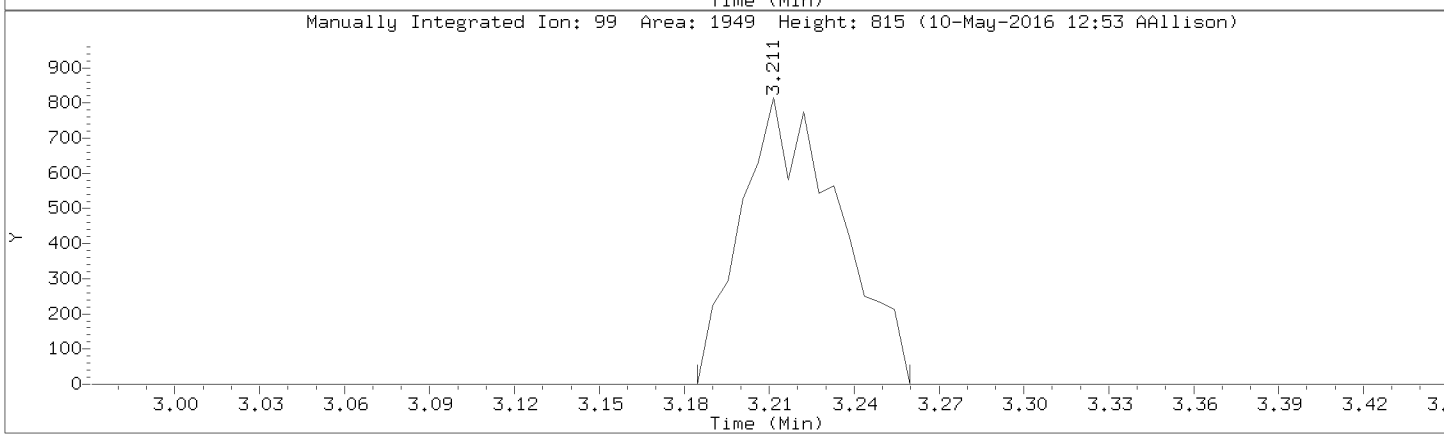
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,1-Trichloroethane Review Code: GT
CAS Number: 71-55-6

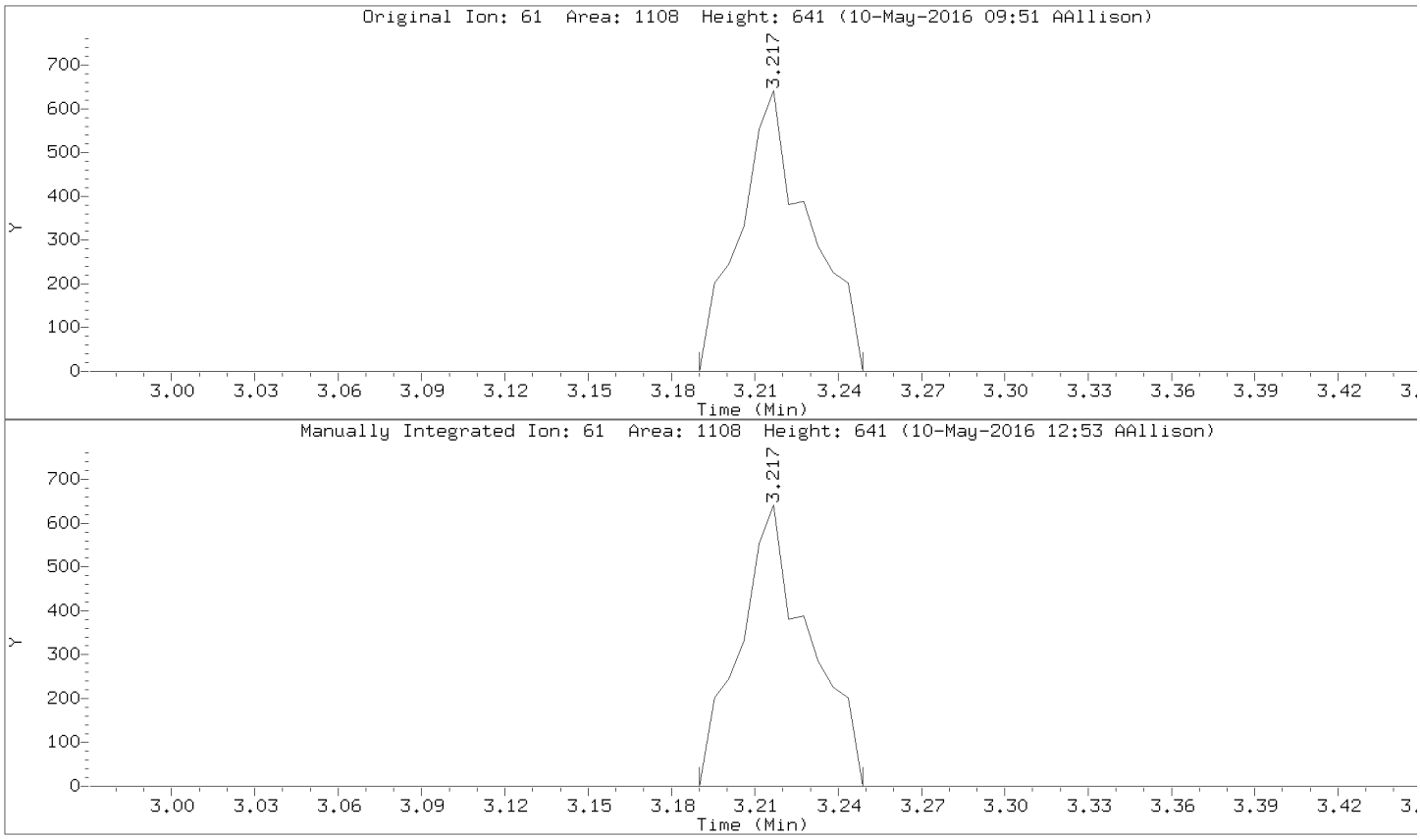






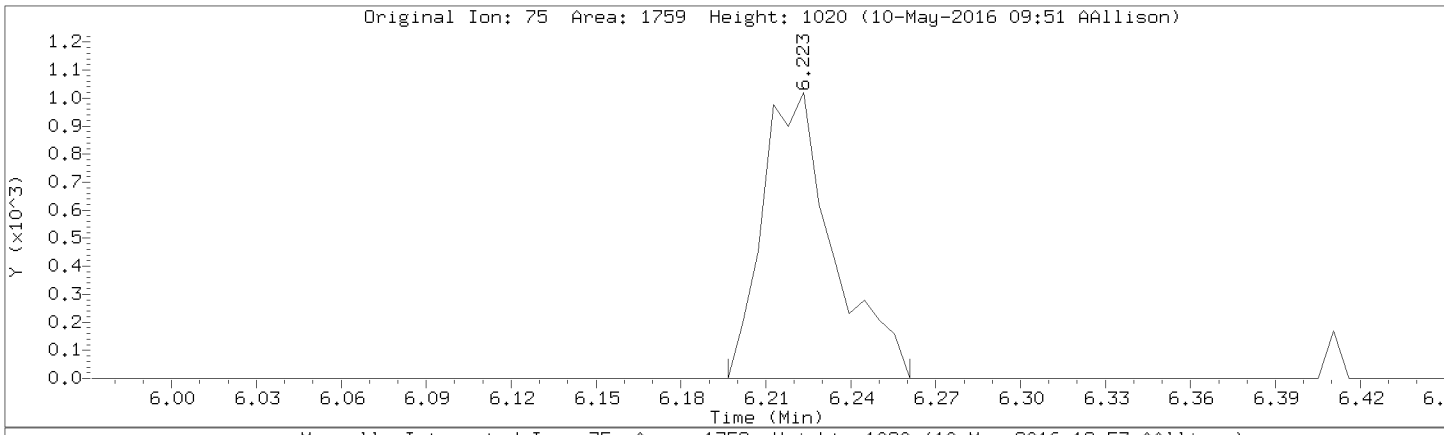


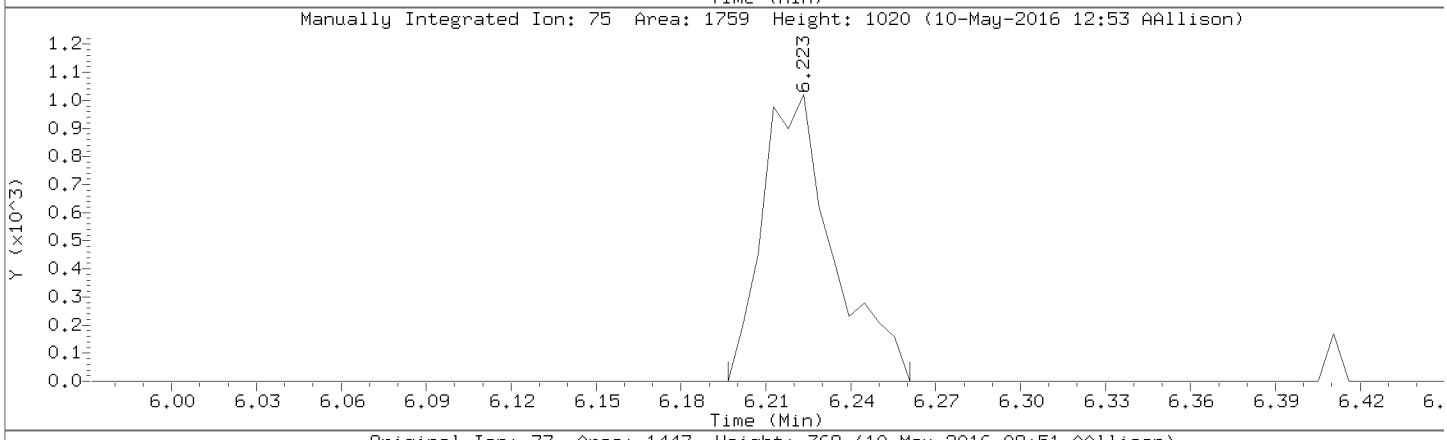
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

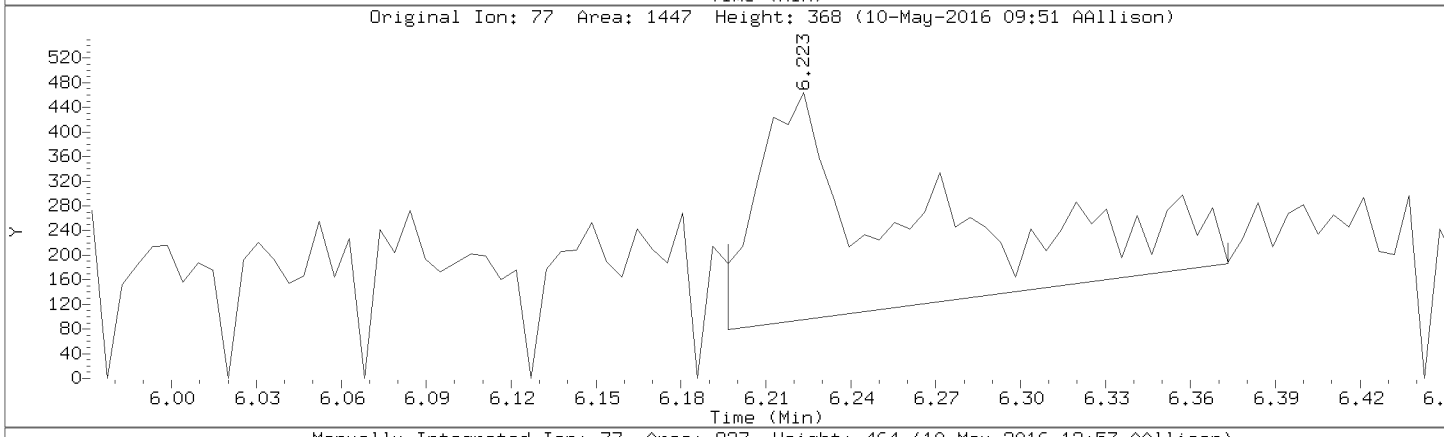


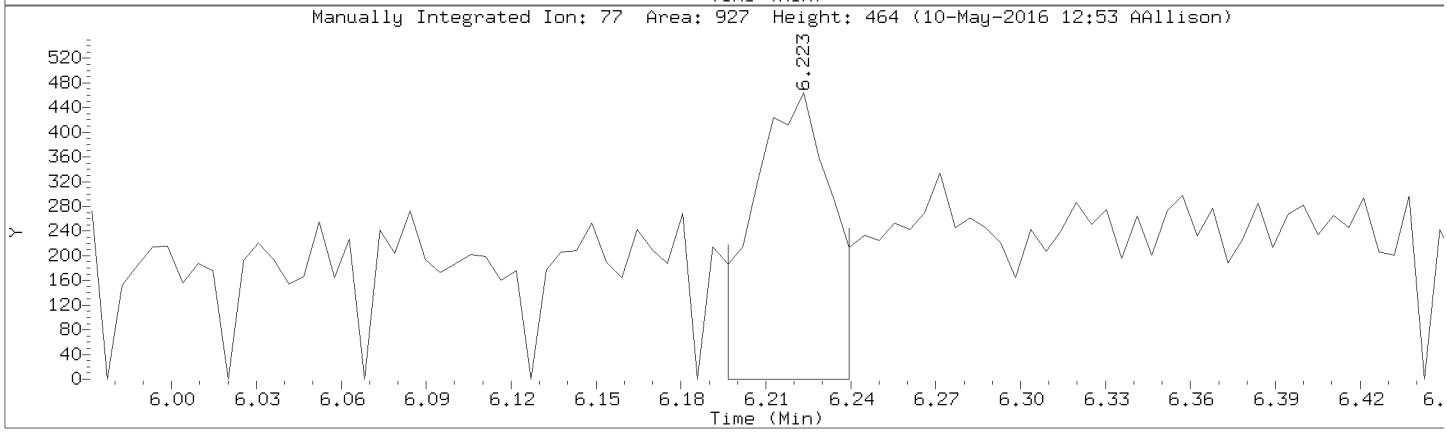
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: trans-1,3-Dichloropropene Review Code: LT
CAS Number: 10061-02-6



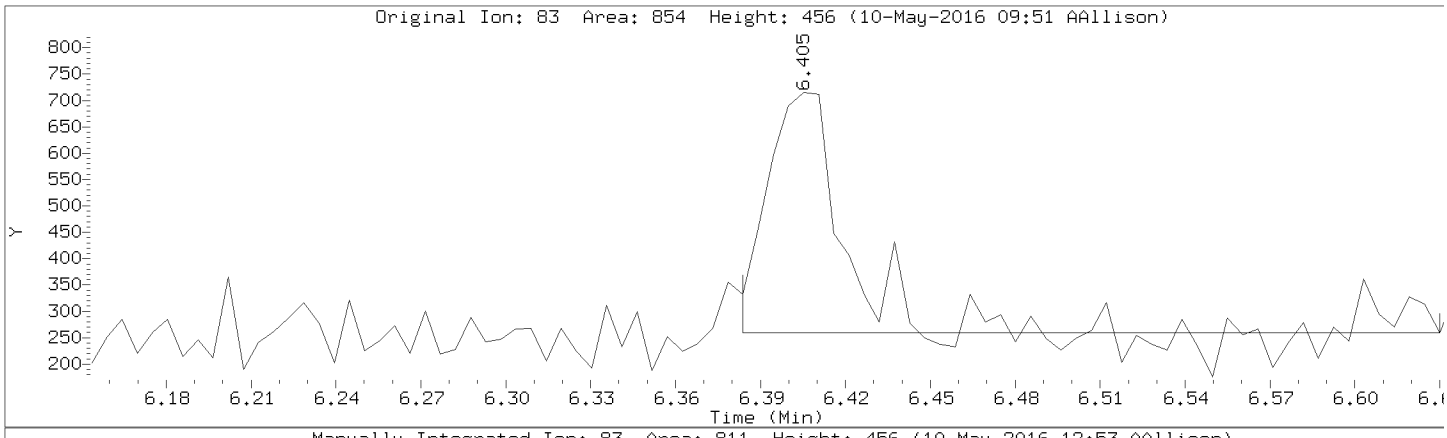


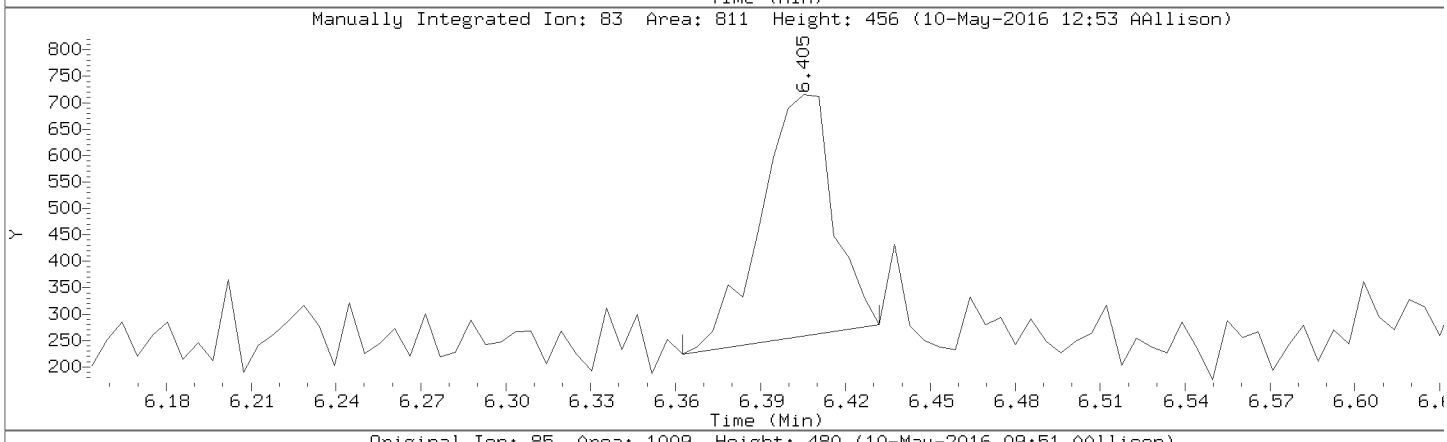


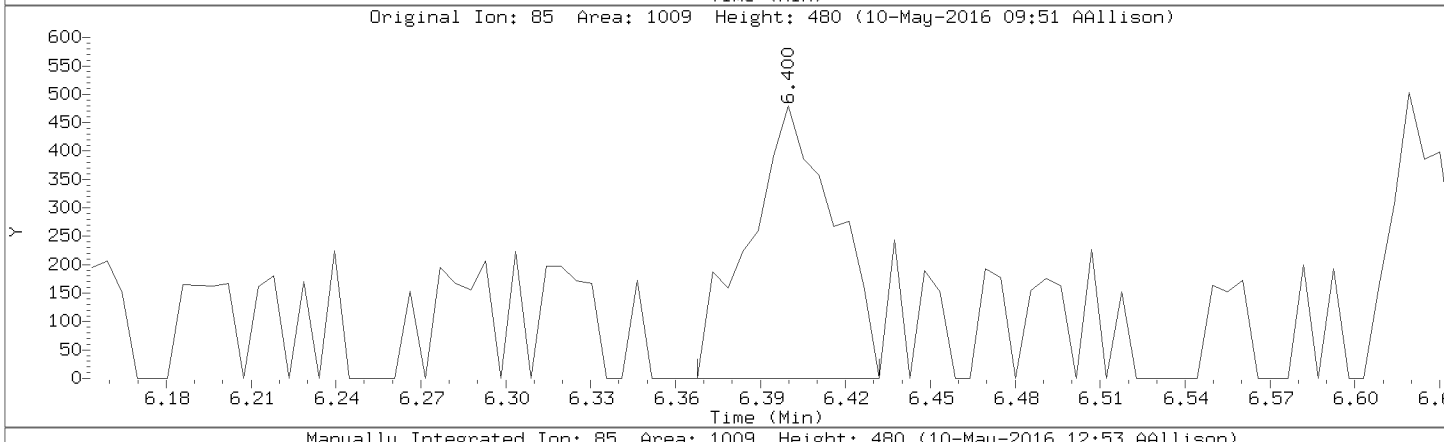


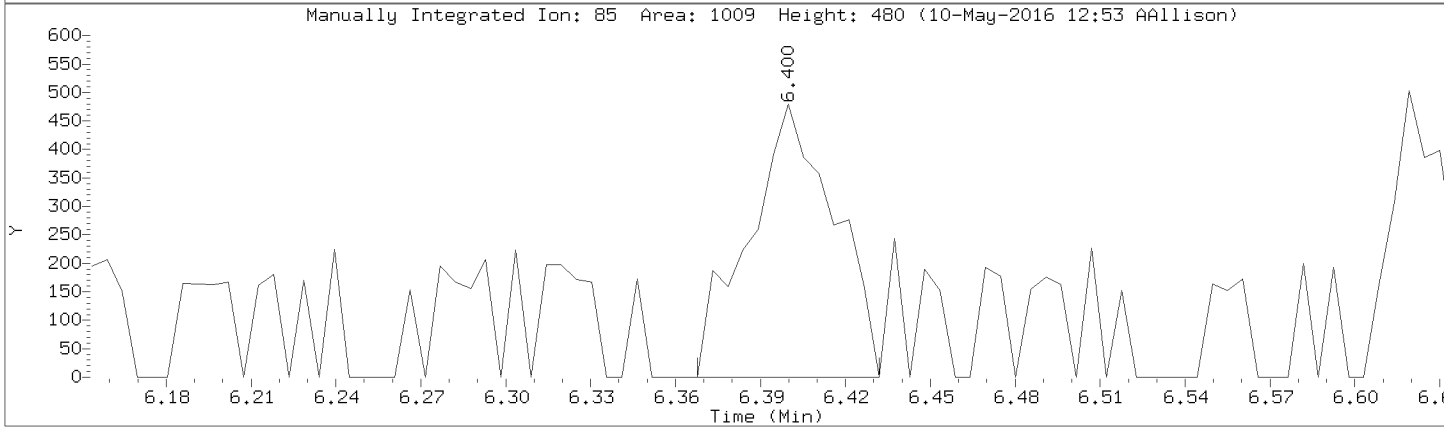
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1,2-Trichloroethane Review Code: GT
CAS Number: 79-00-5

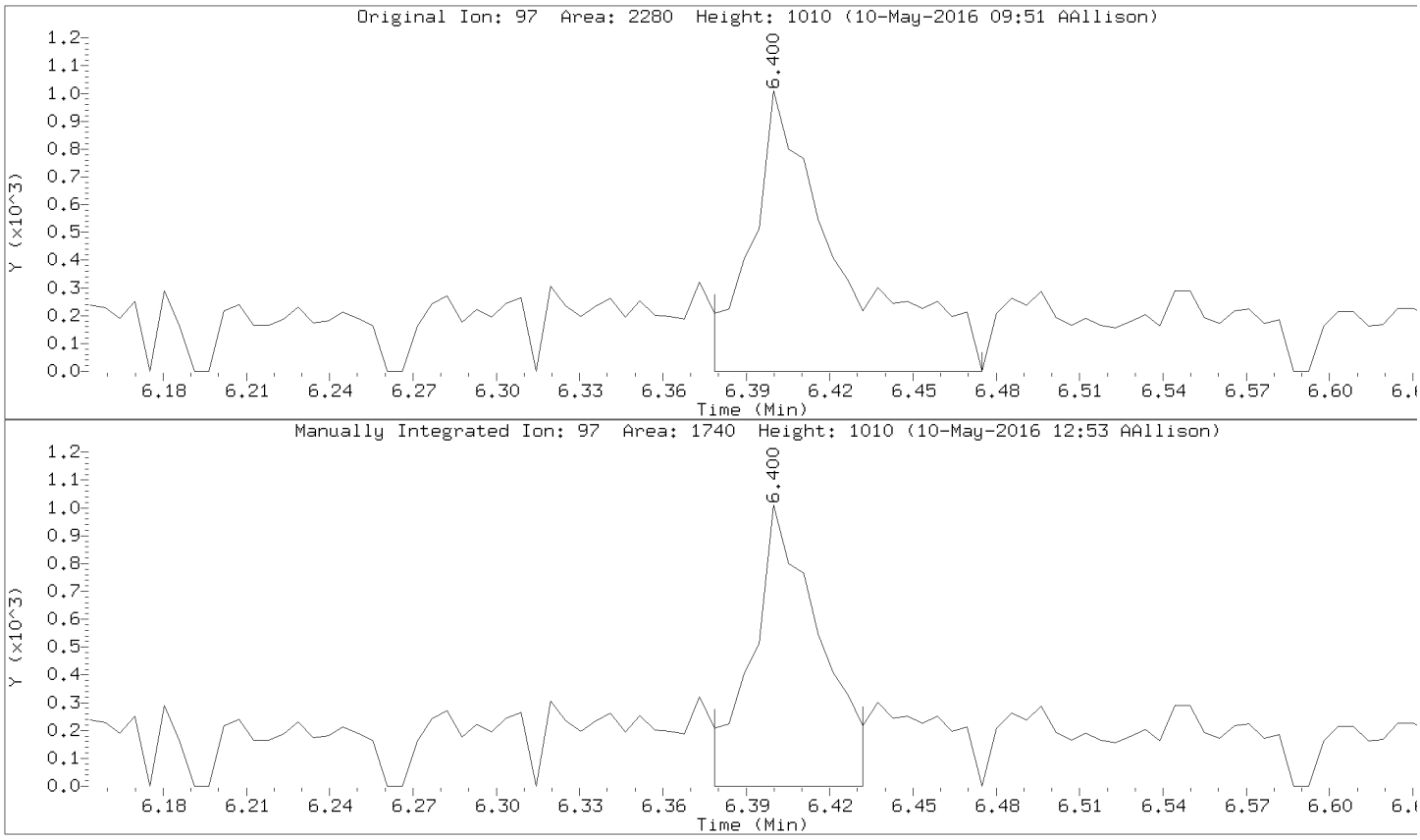






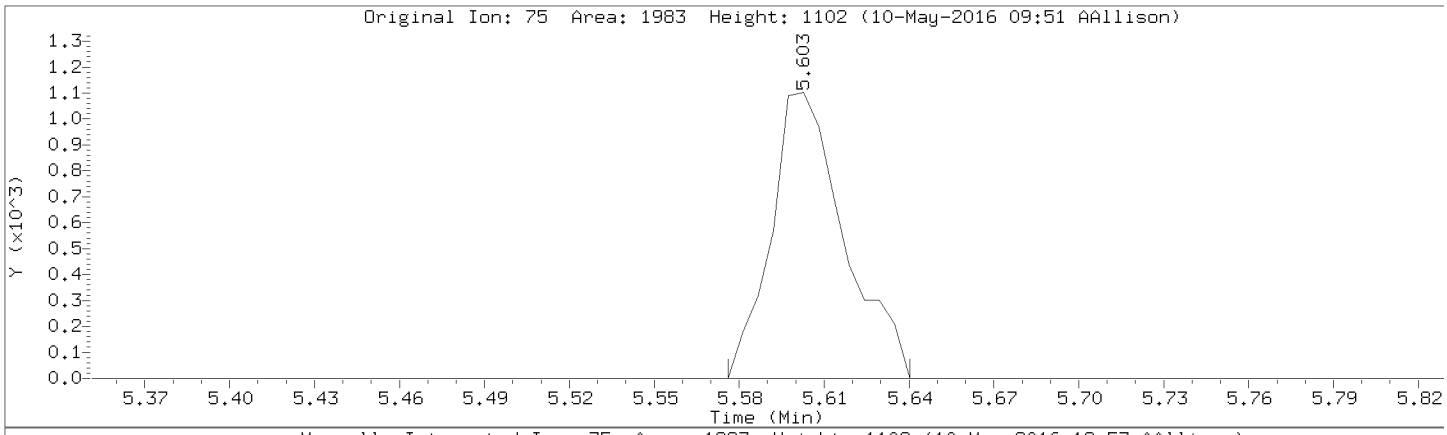


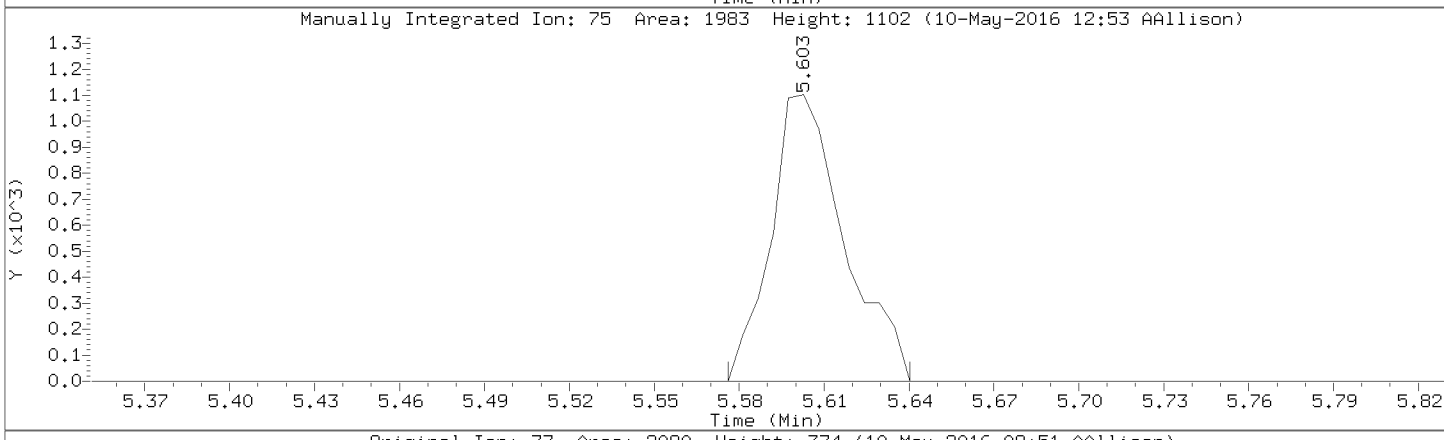
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

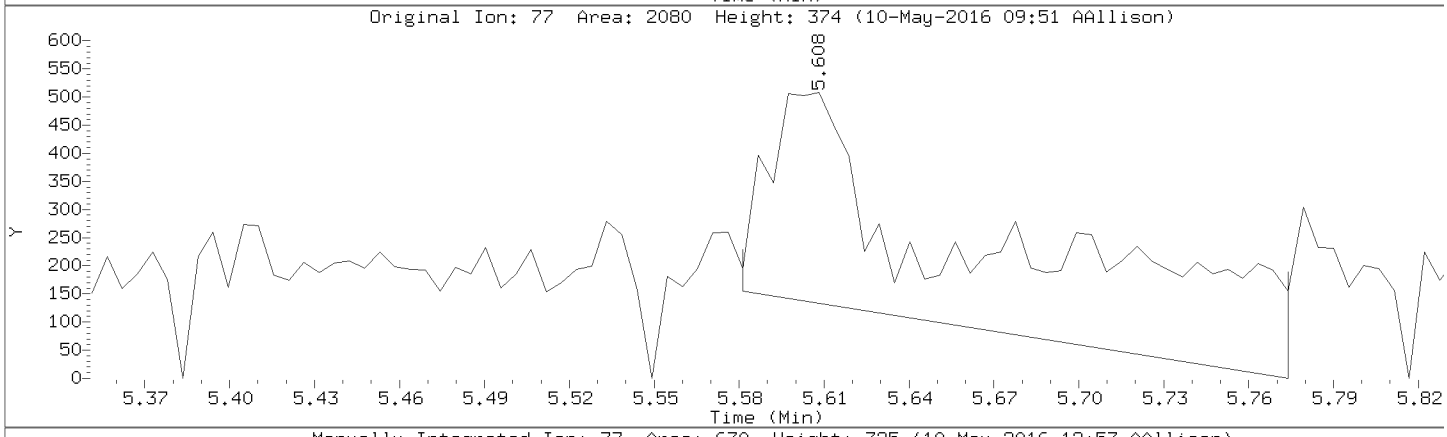


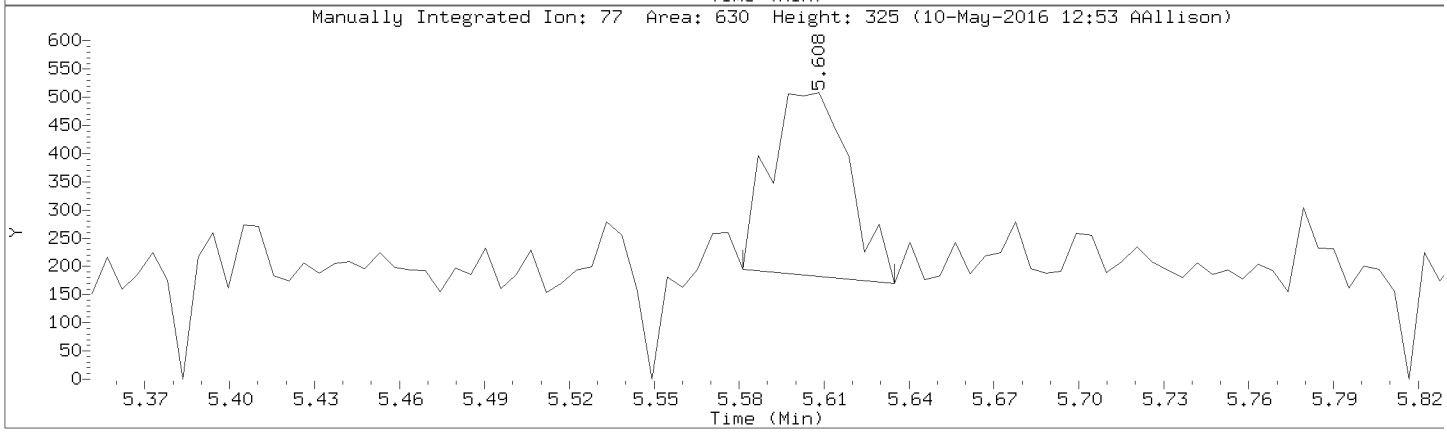
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: cis-1,3-Dichloropropene Review Code: GT
CAS Number: 10061-01-5



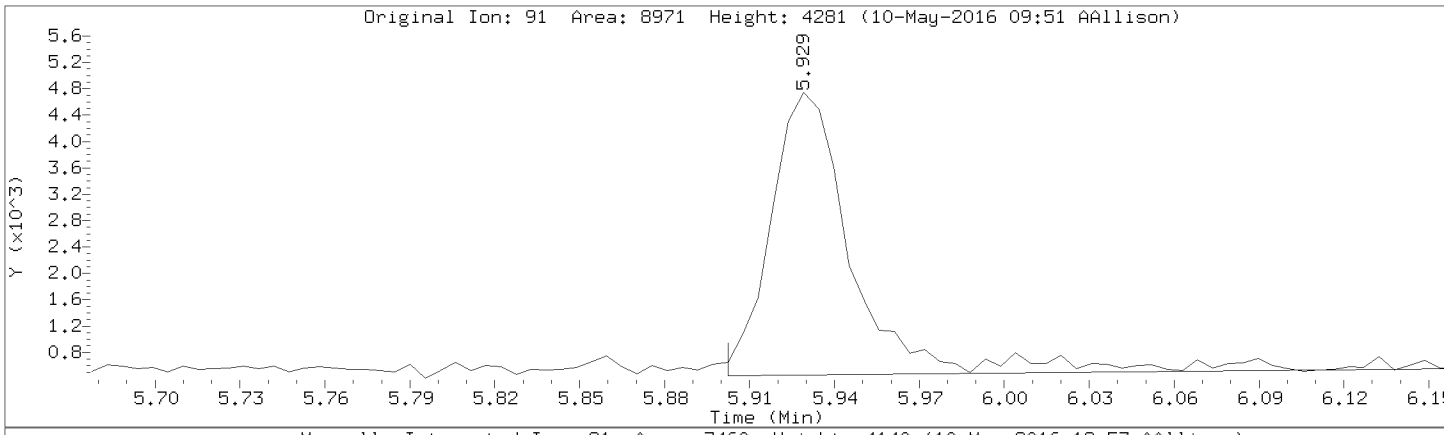


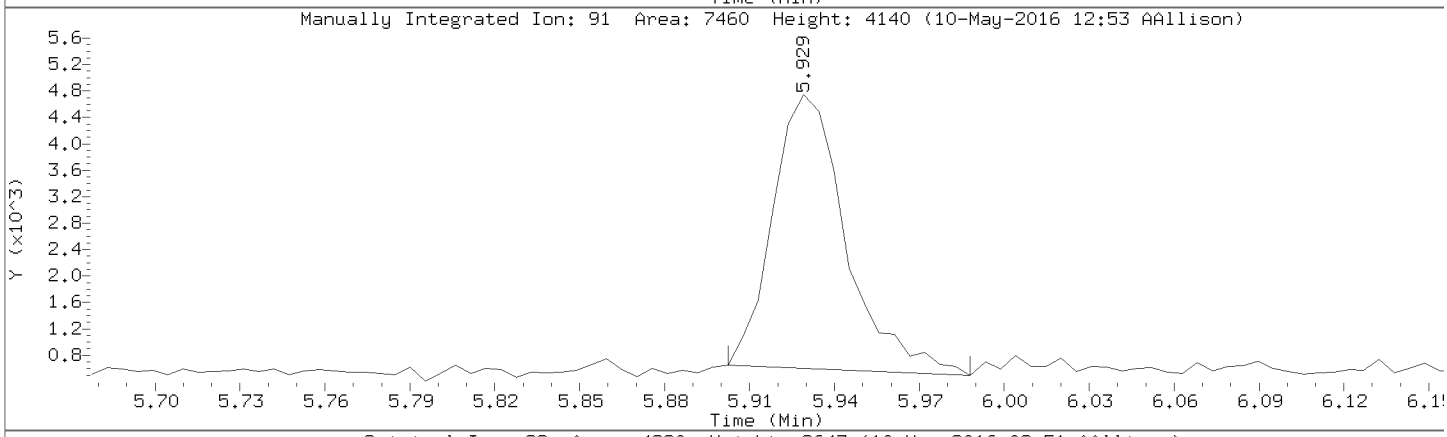


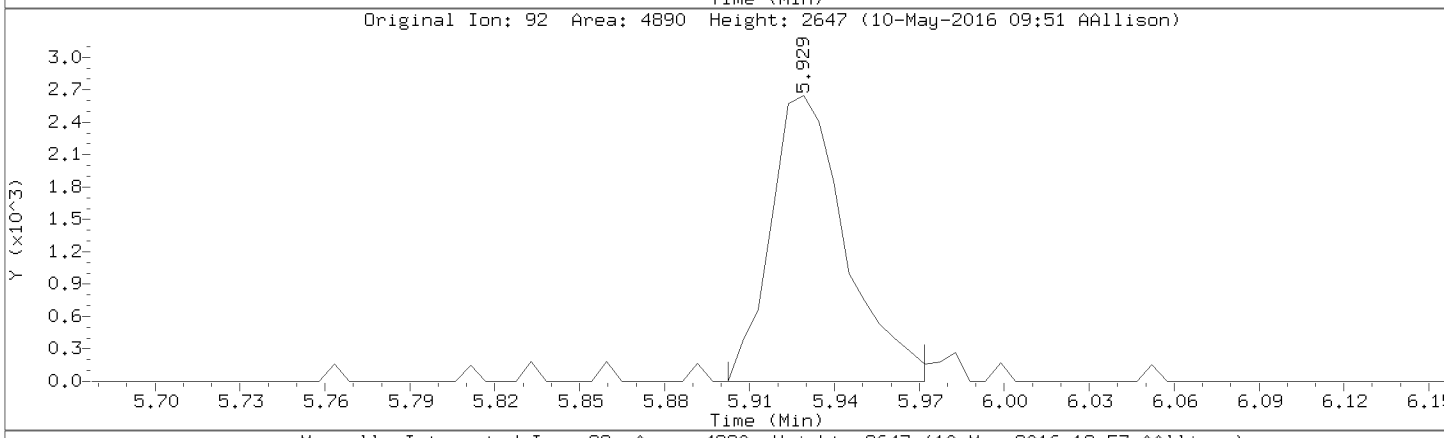


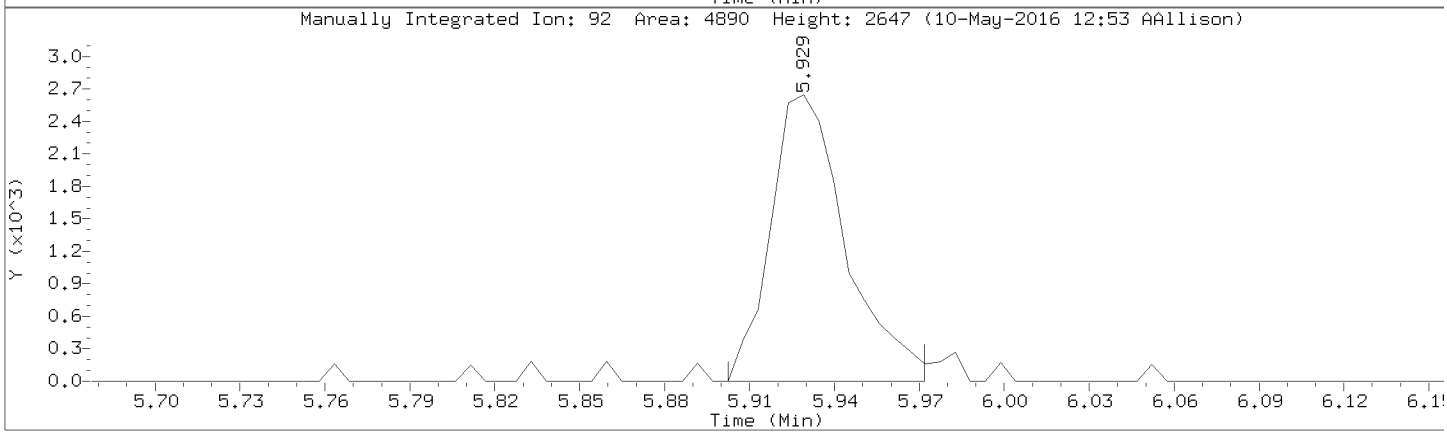
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Toluene Review Code: GT
CAS Number: 108-88-3



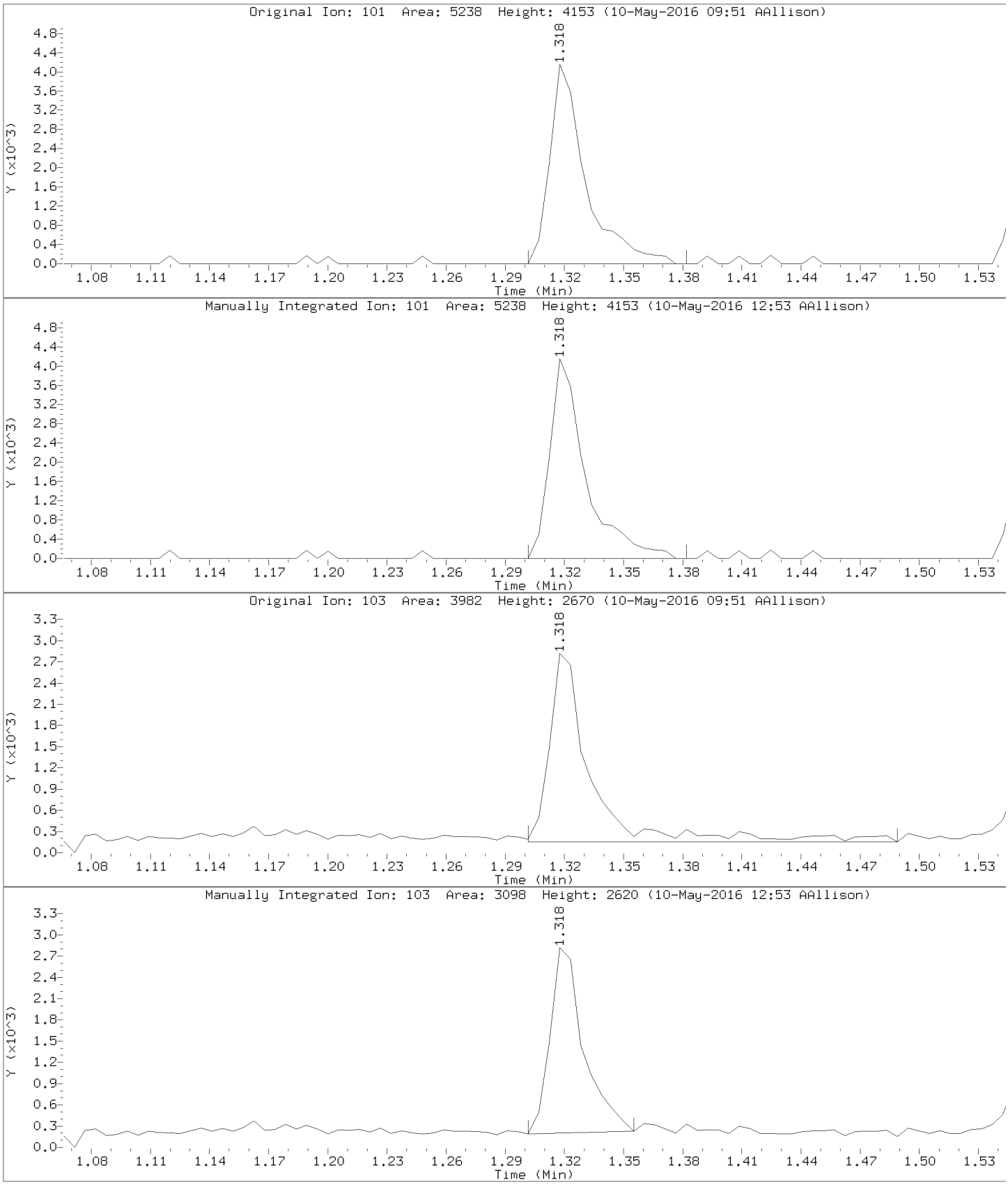






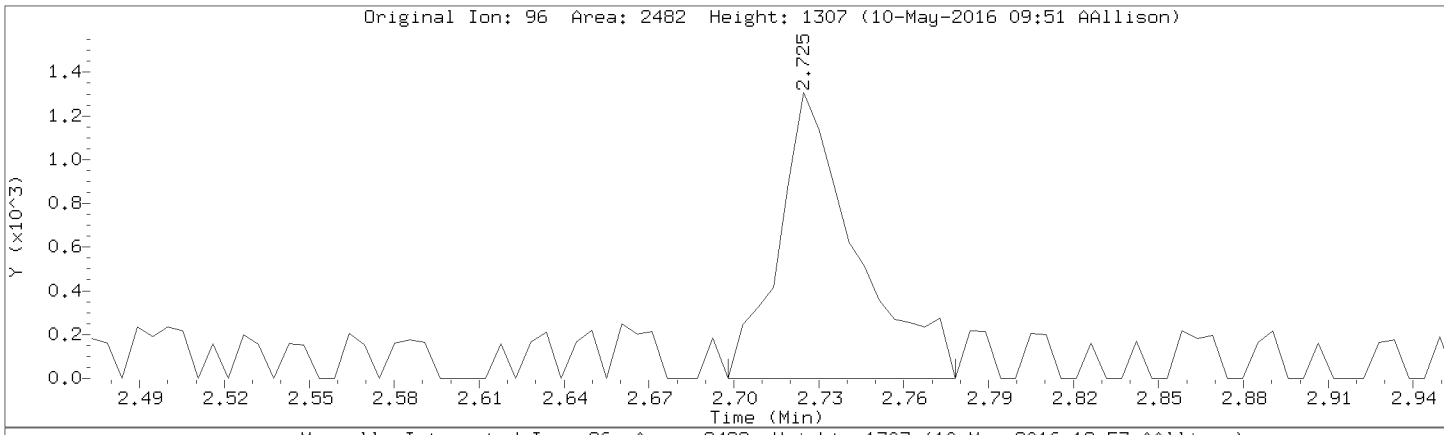
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

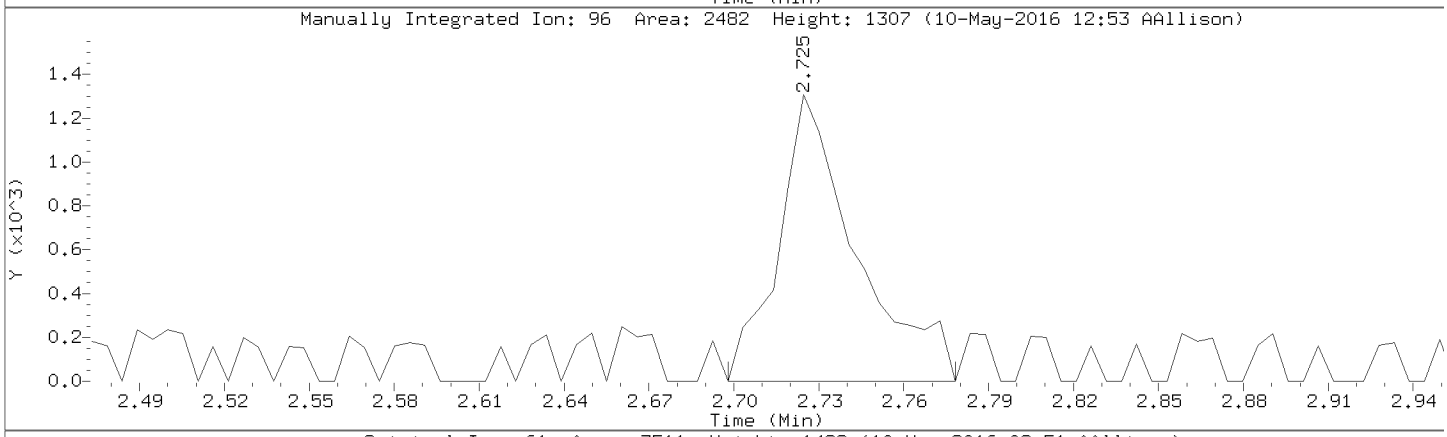
Compound: Trichlorofluoromethane Review Code: GT
CAS Number: 75-69-4

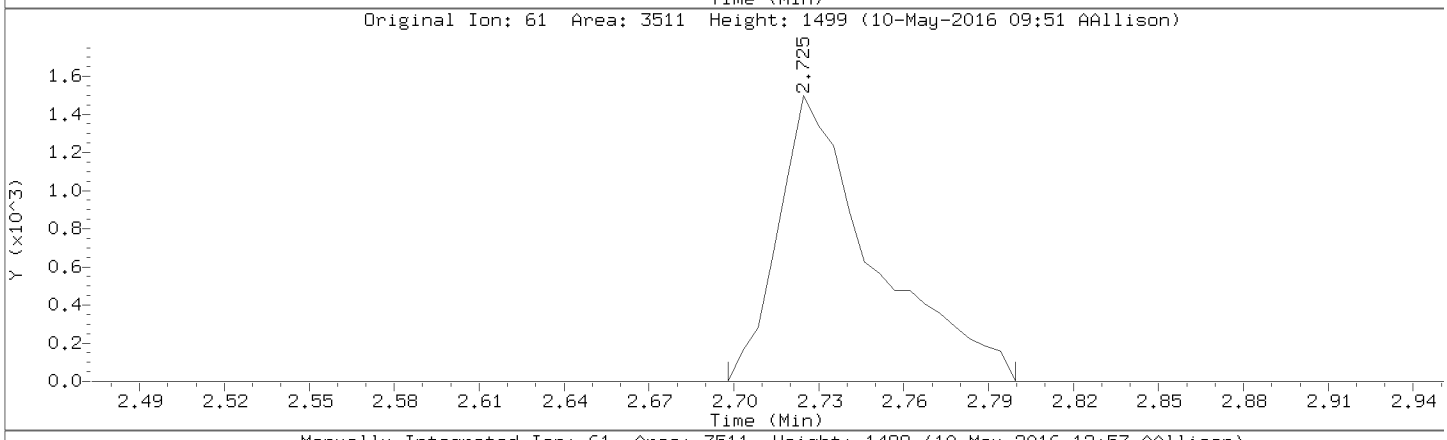


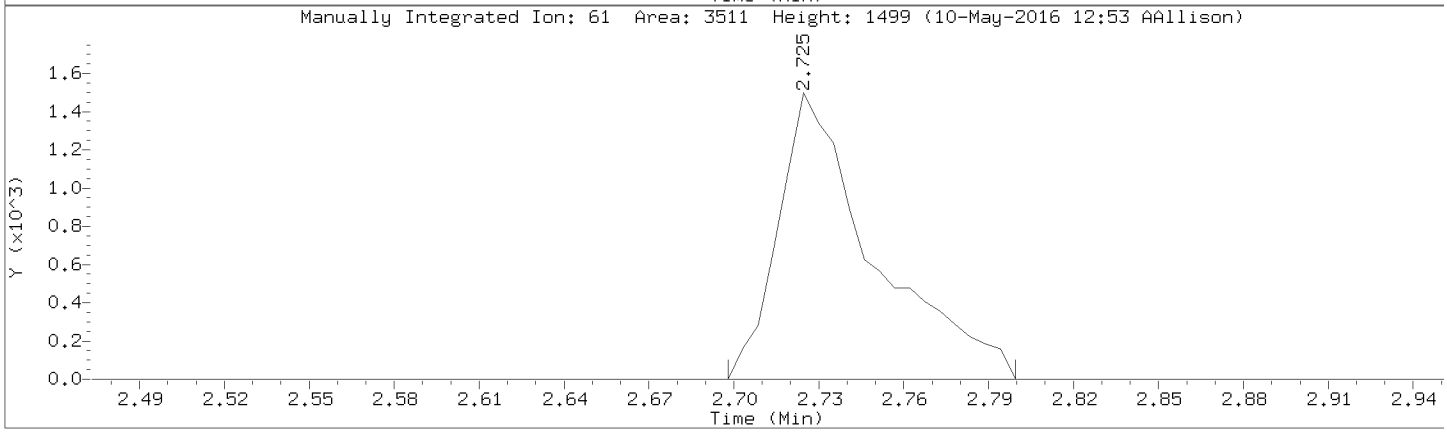
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dichloroethene (cis) Review Code: GT
CAS Number: 156-59-2

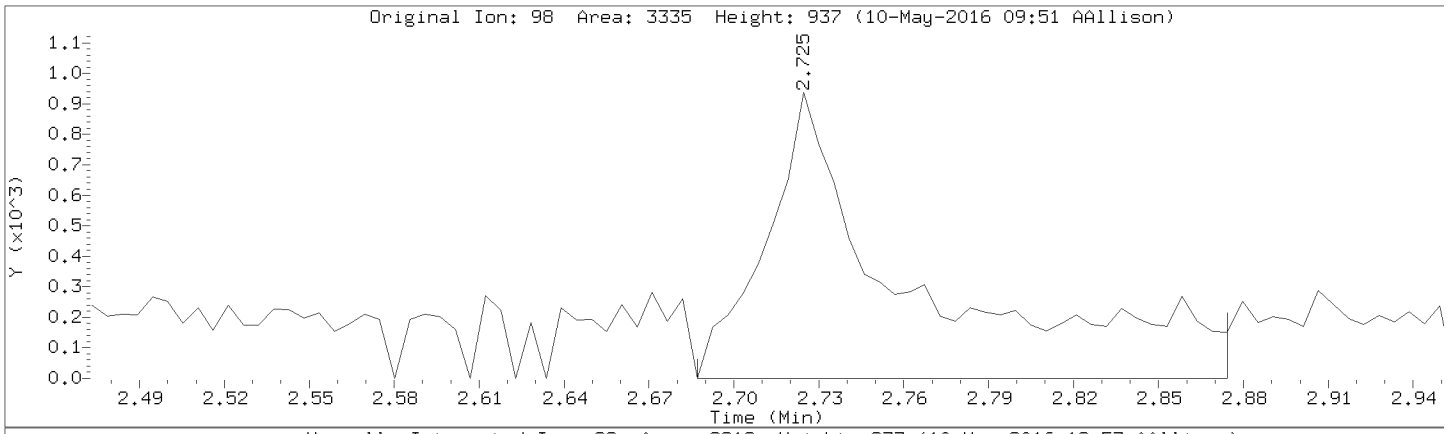


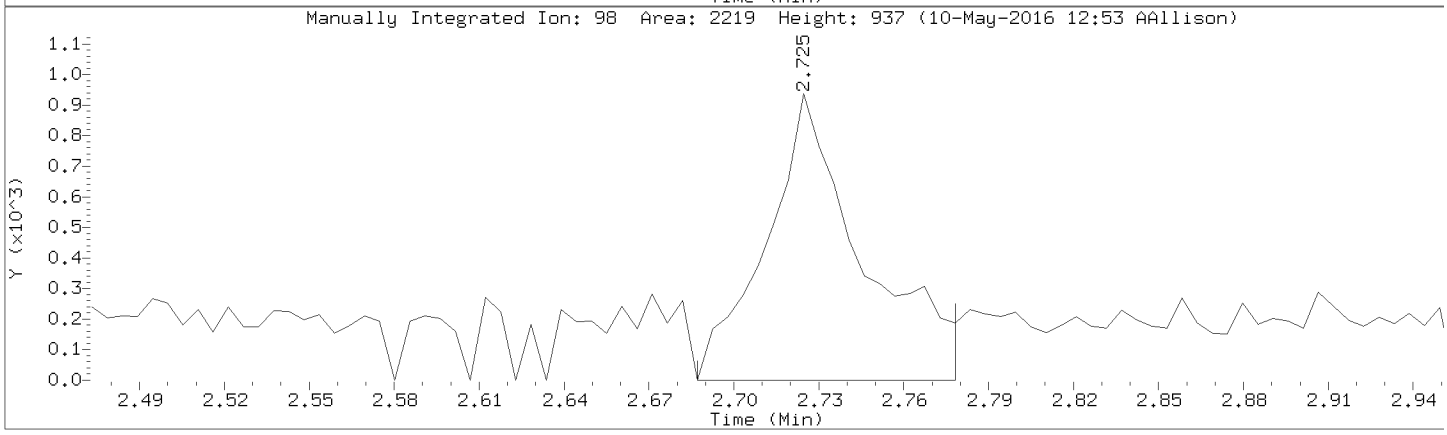






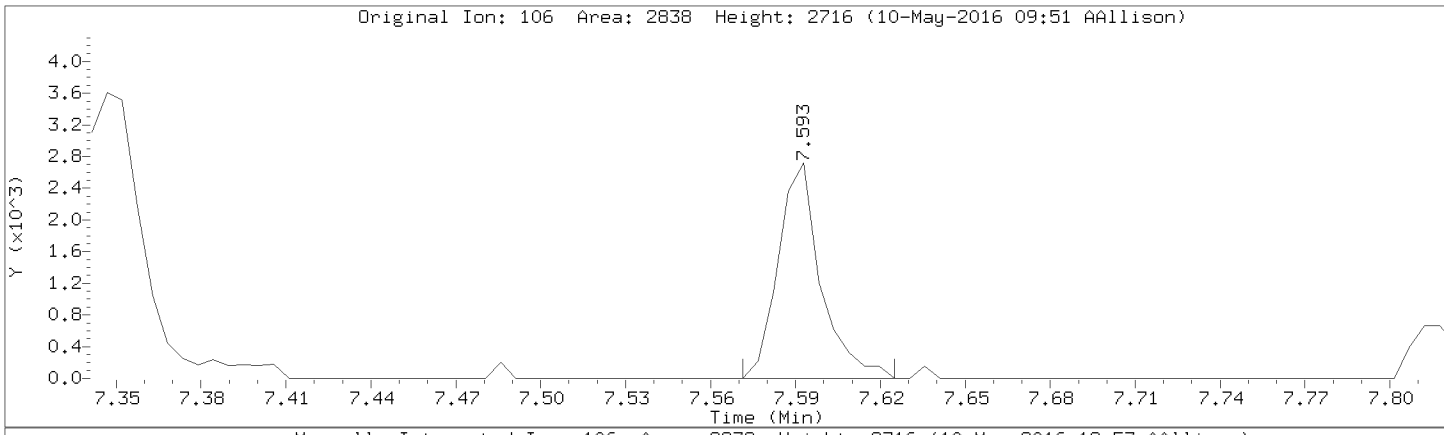
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

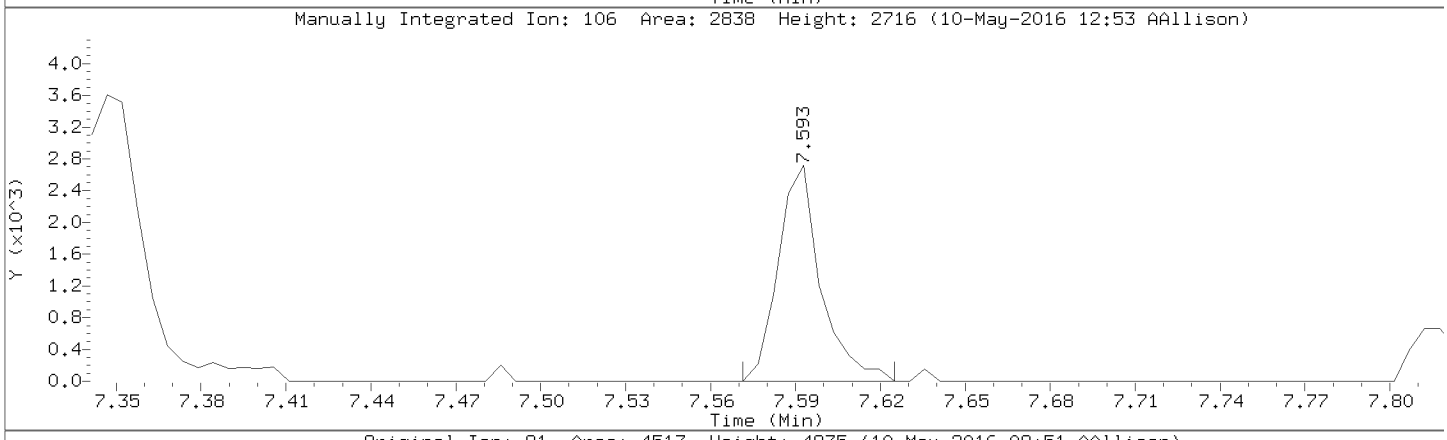


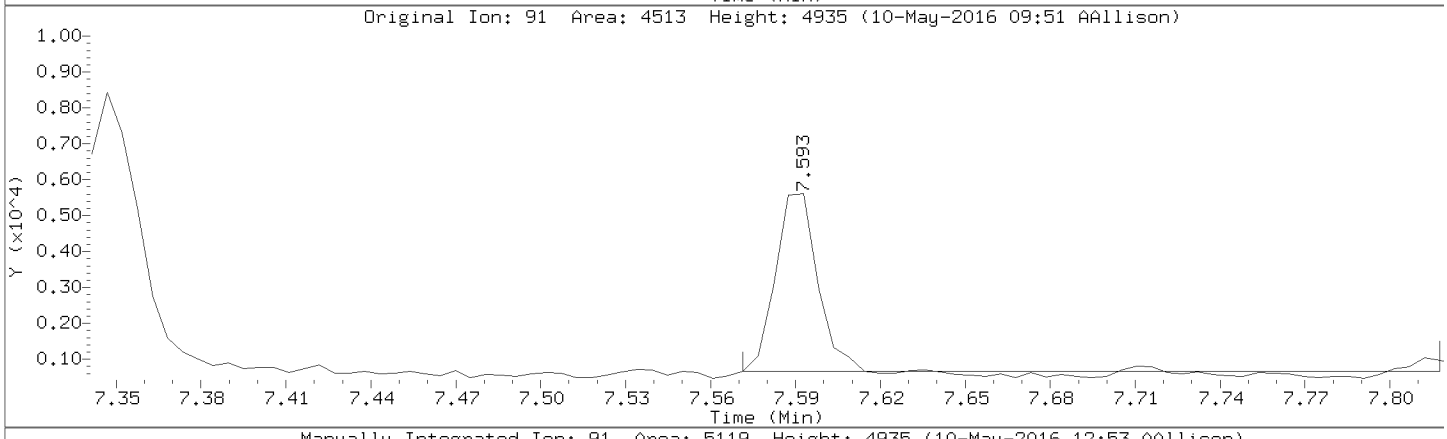


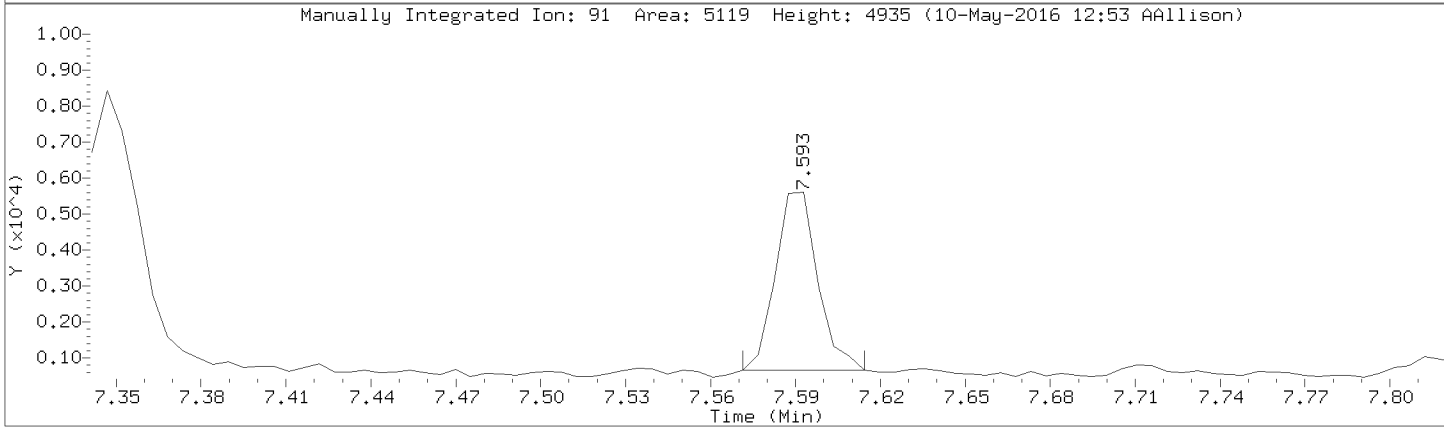
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: o-Xylene Review Code: GT
CAS Number: 95-47-6

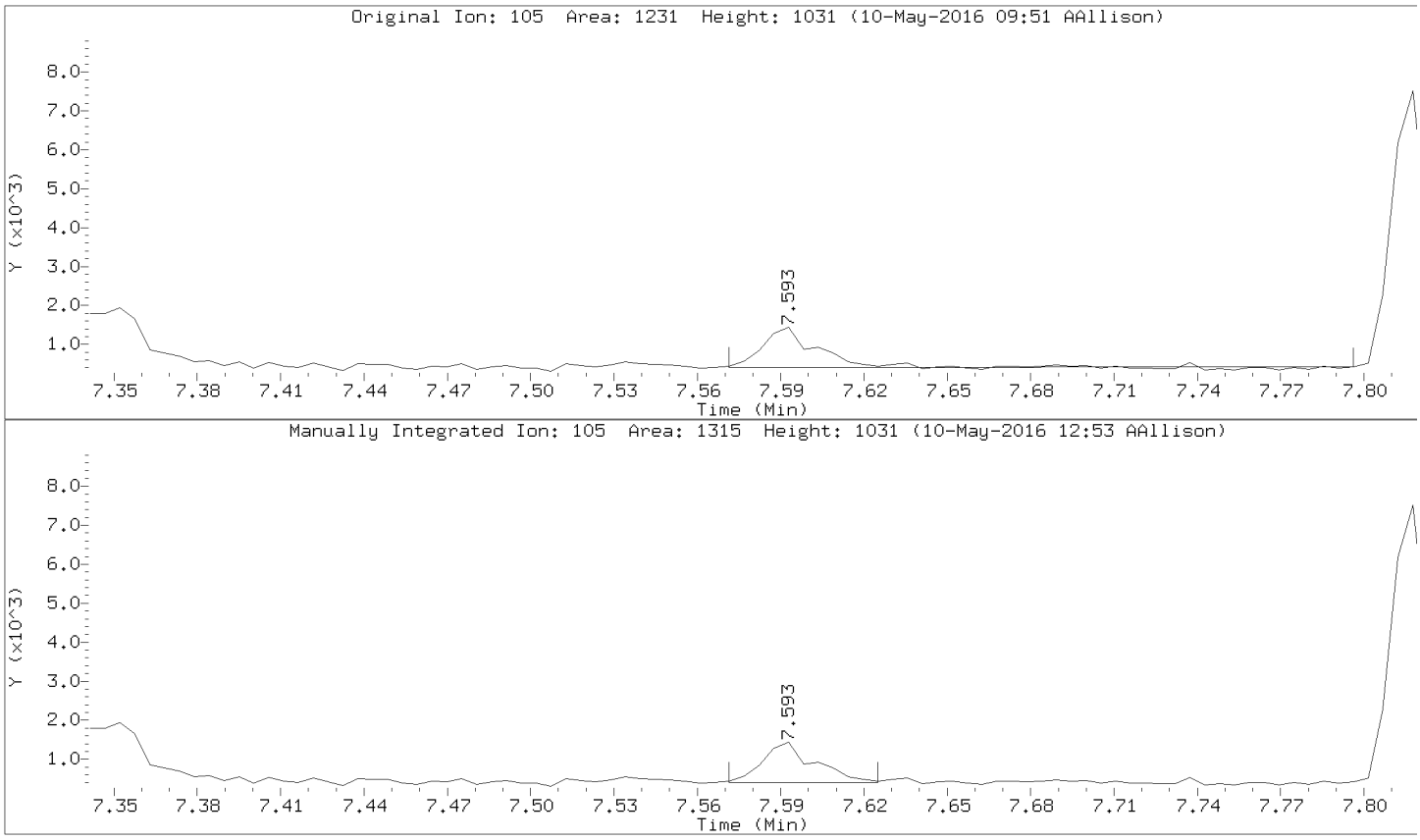






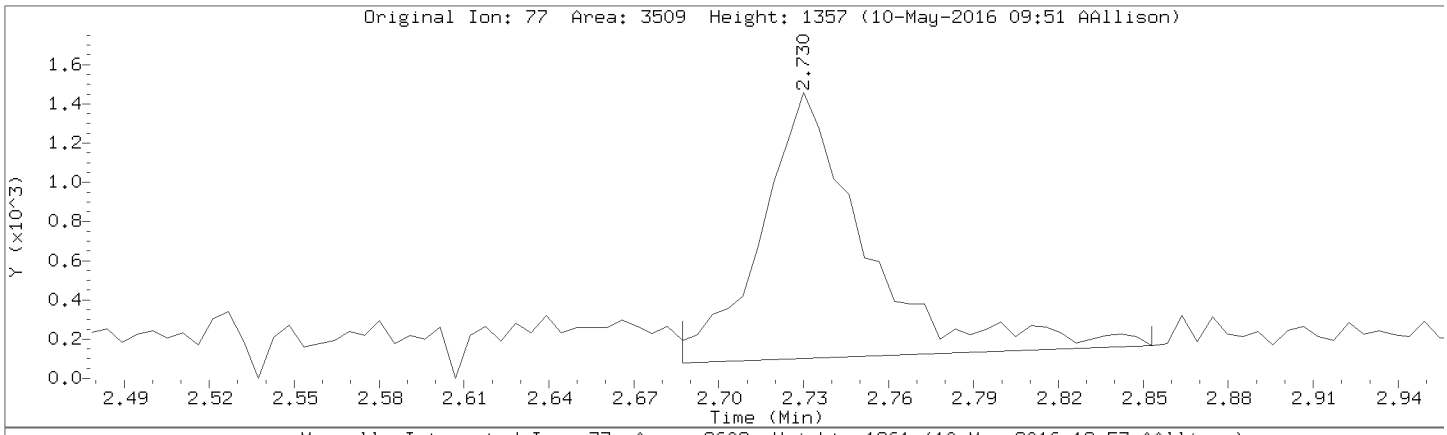


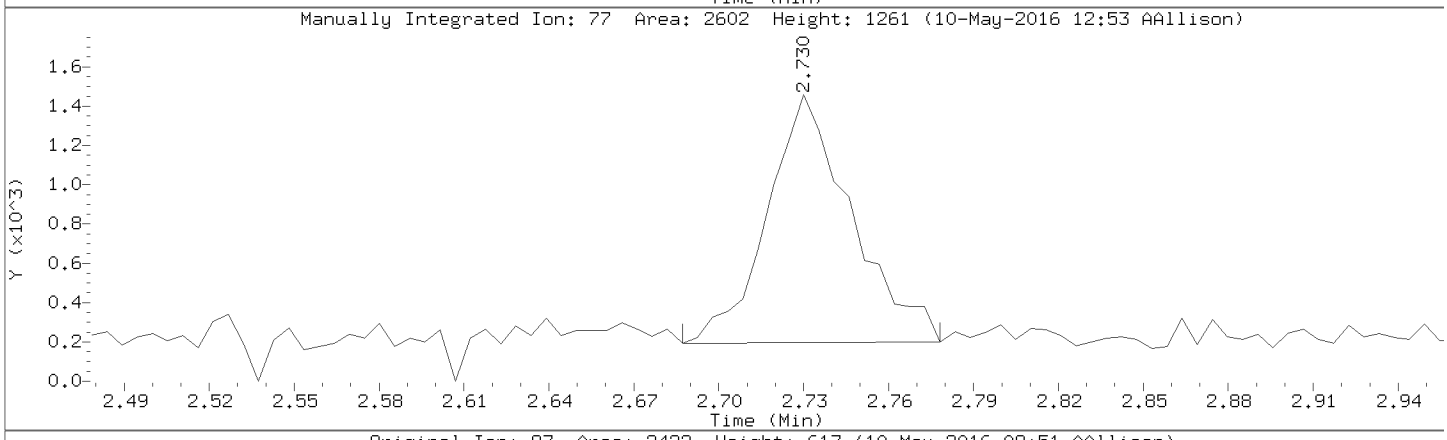
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

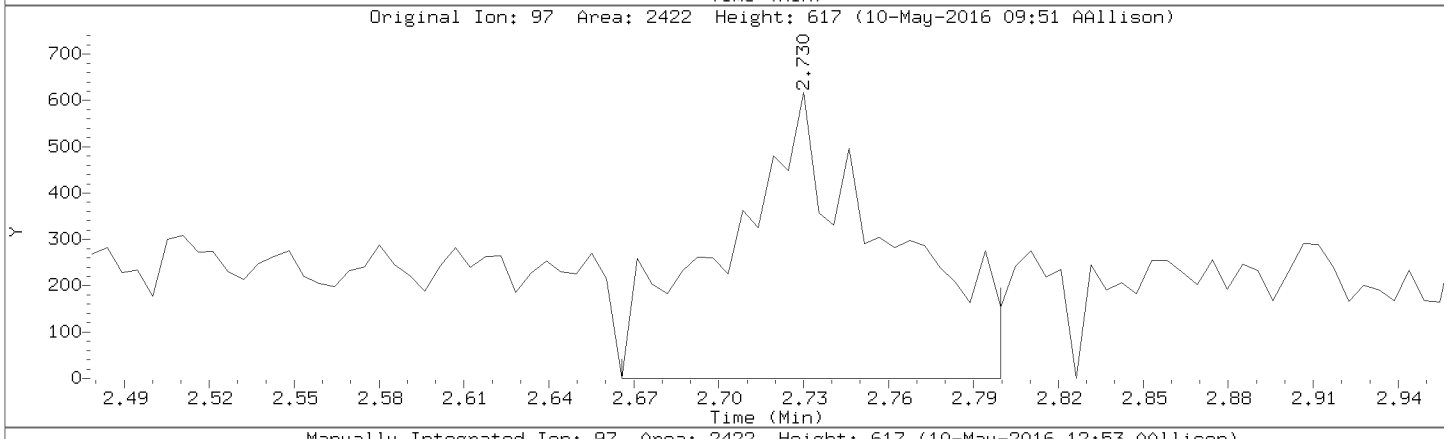


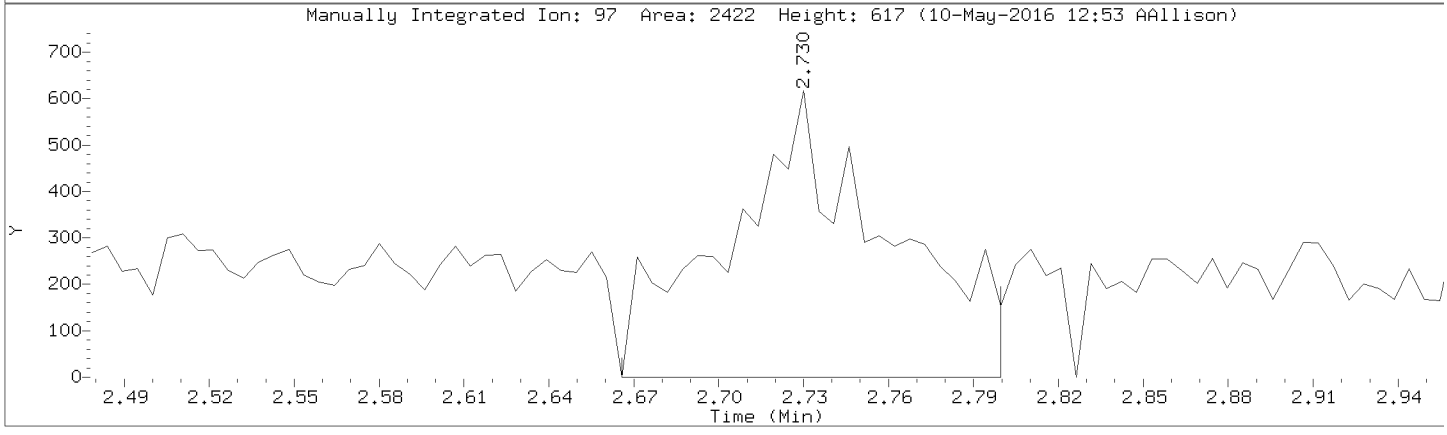
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 2,2-Dichloropropane Review Code: GT
CAS Number: 594-20-7



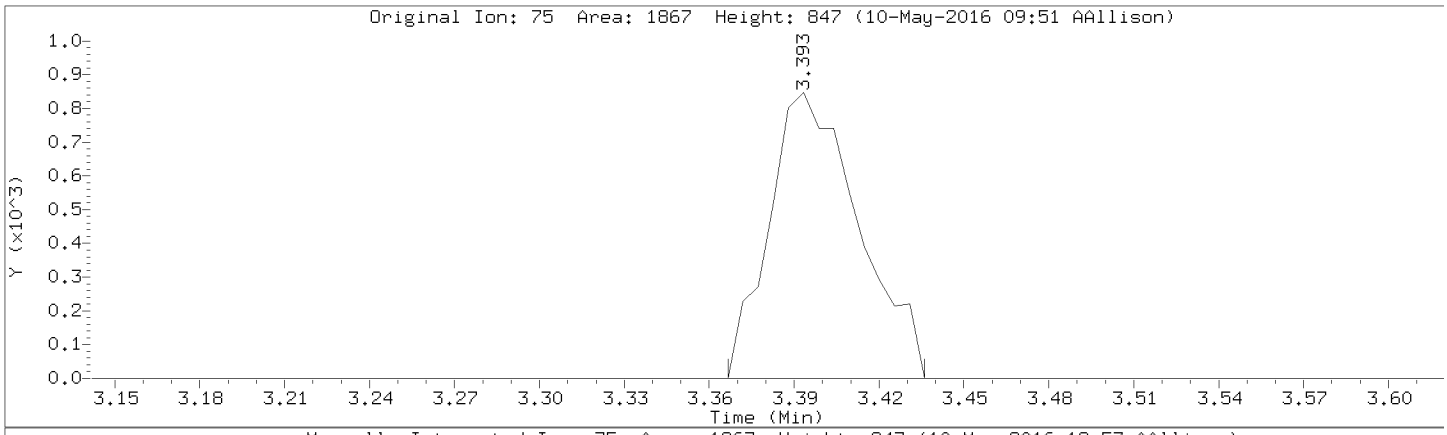


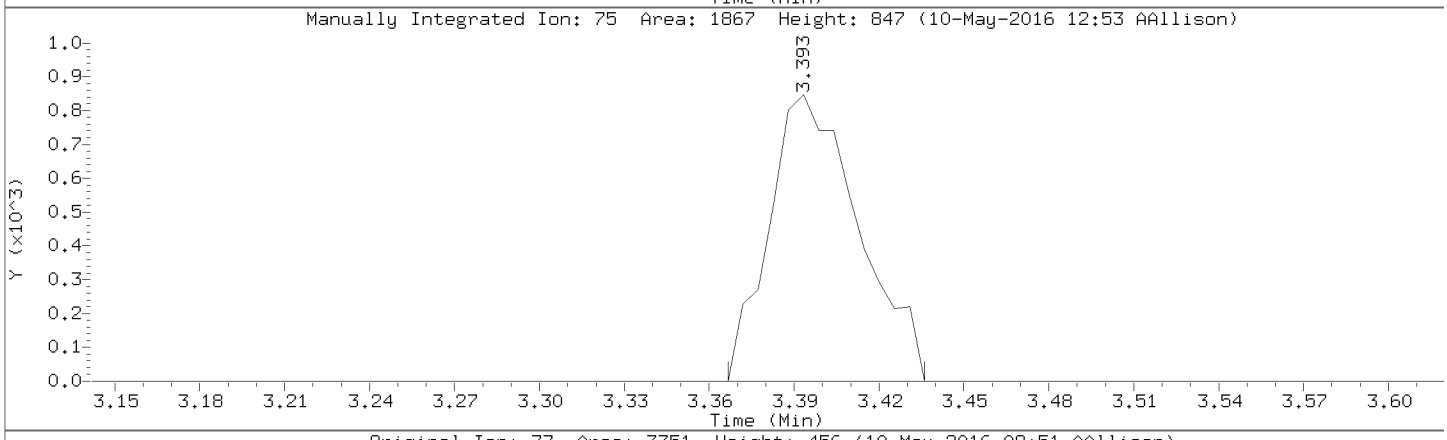


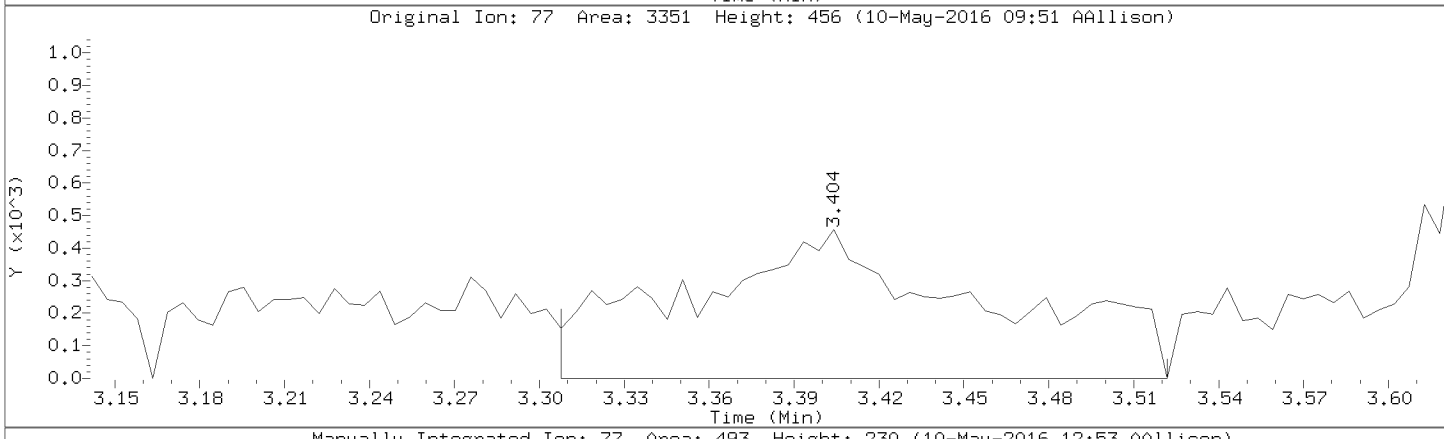


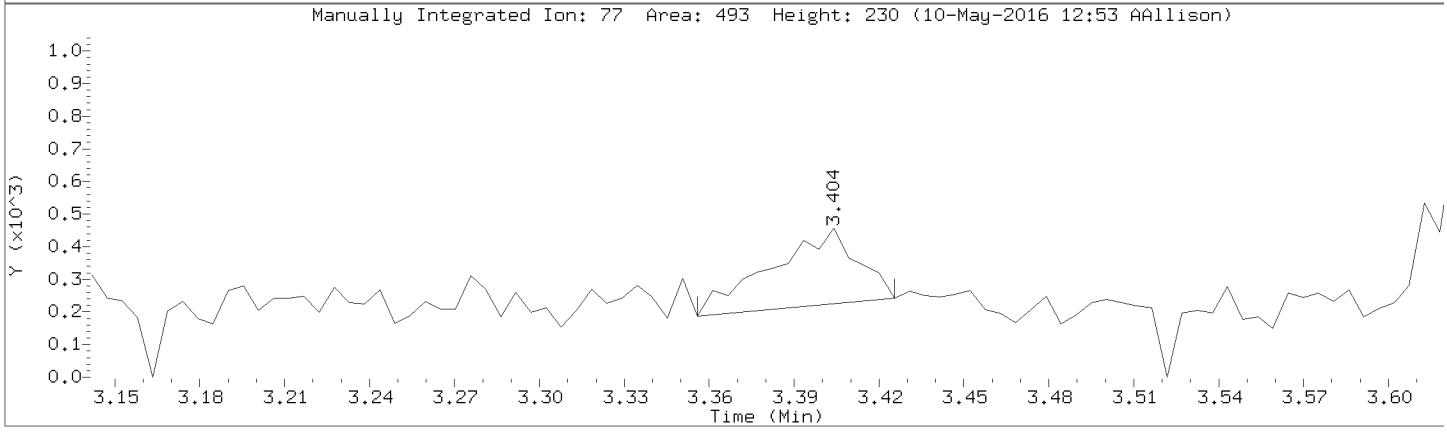
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,1-Dichloropropene Review Code: GT
CAS Number: 563-58-6

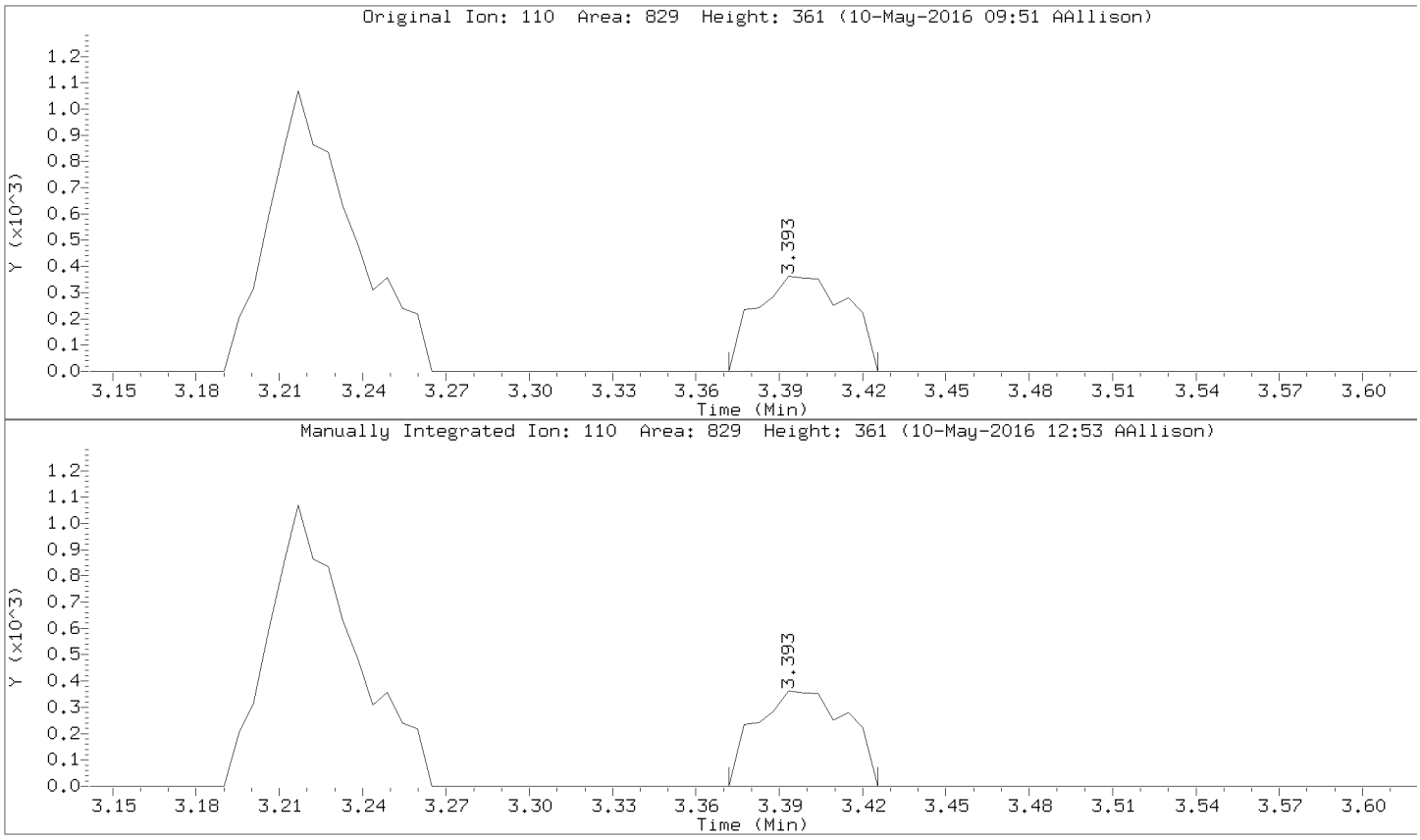






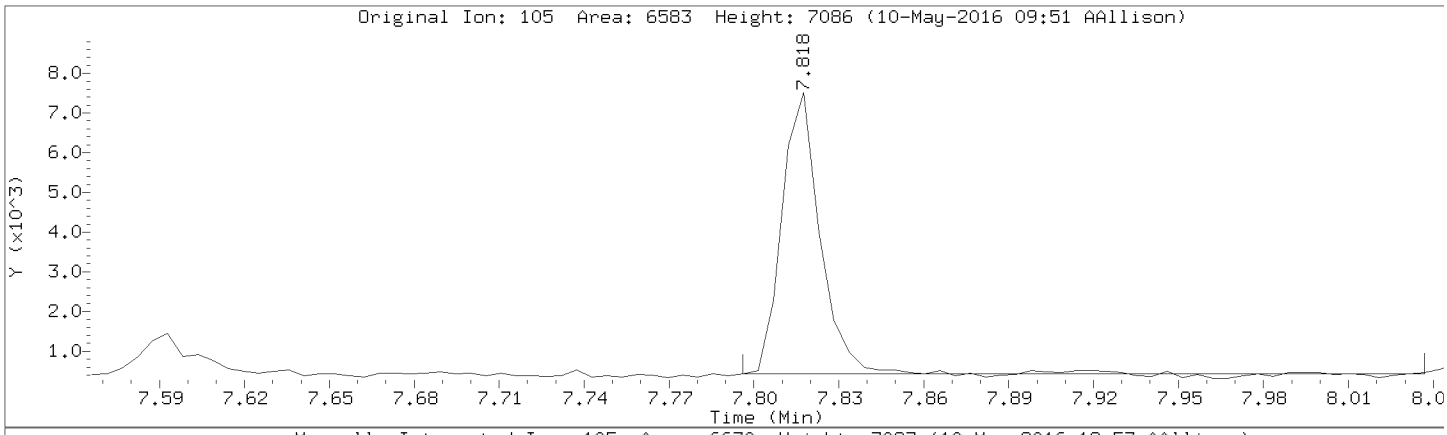


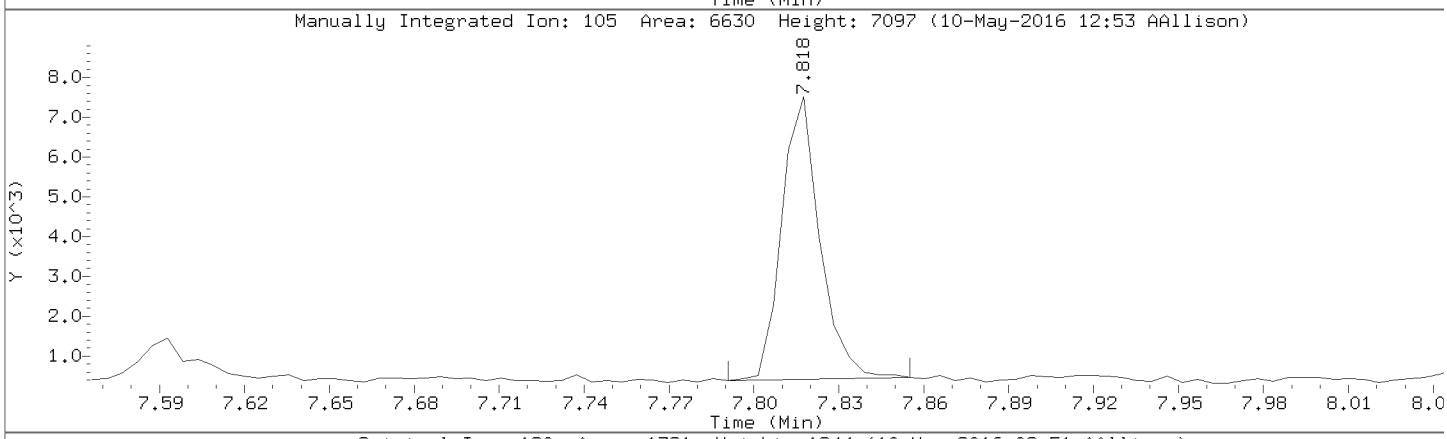
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

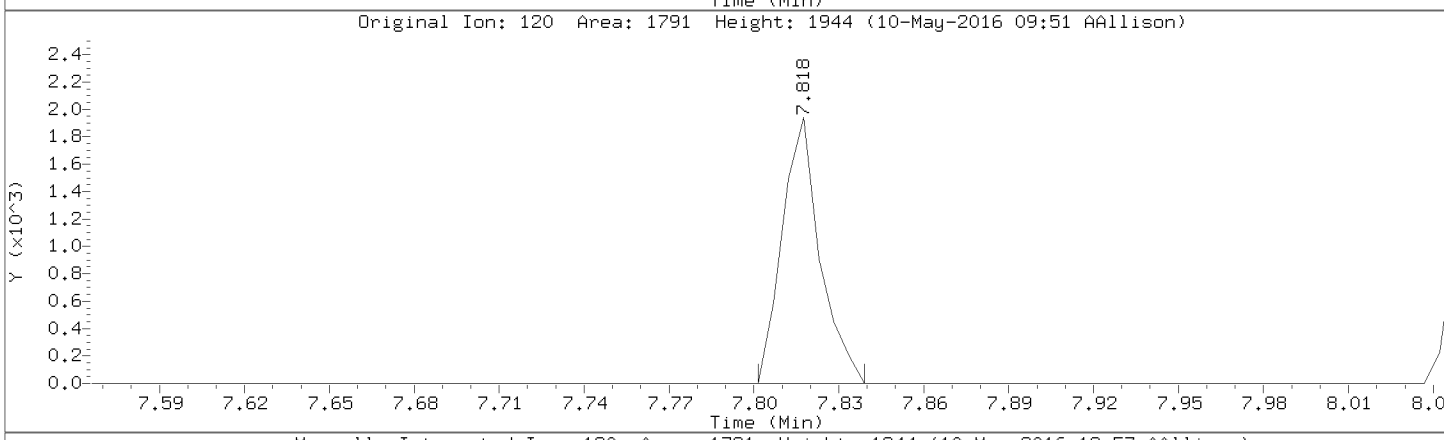


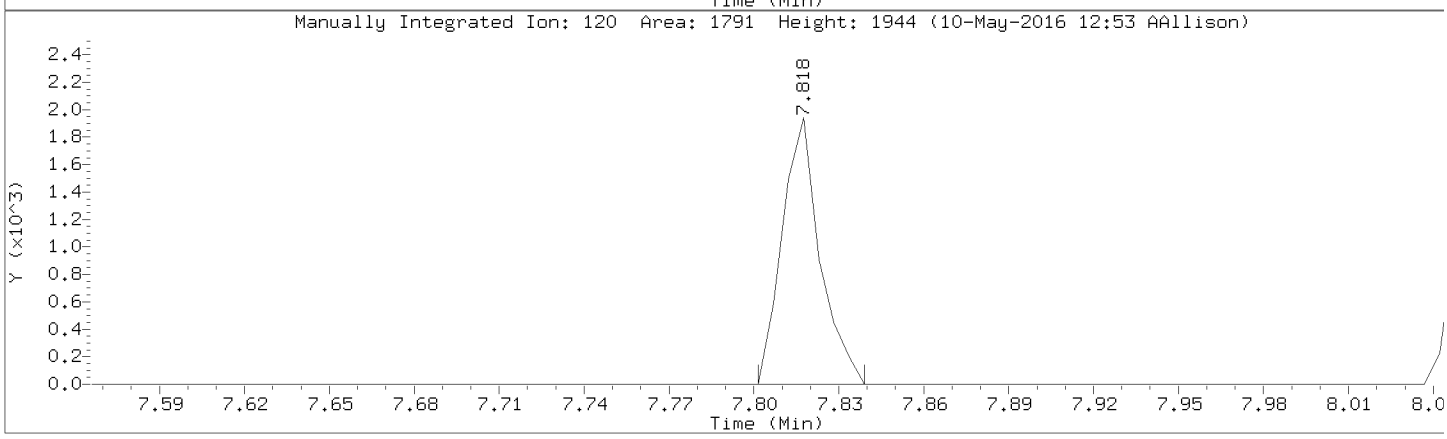
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Isopropylbenzene Review Code: GT
CAS Number: 98-82-8



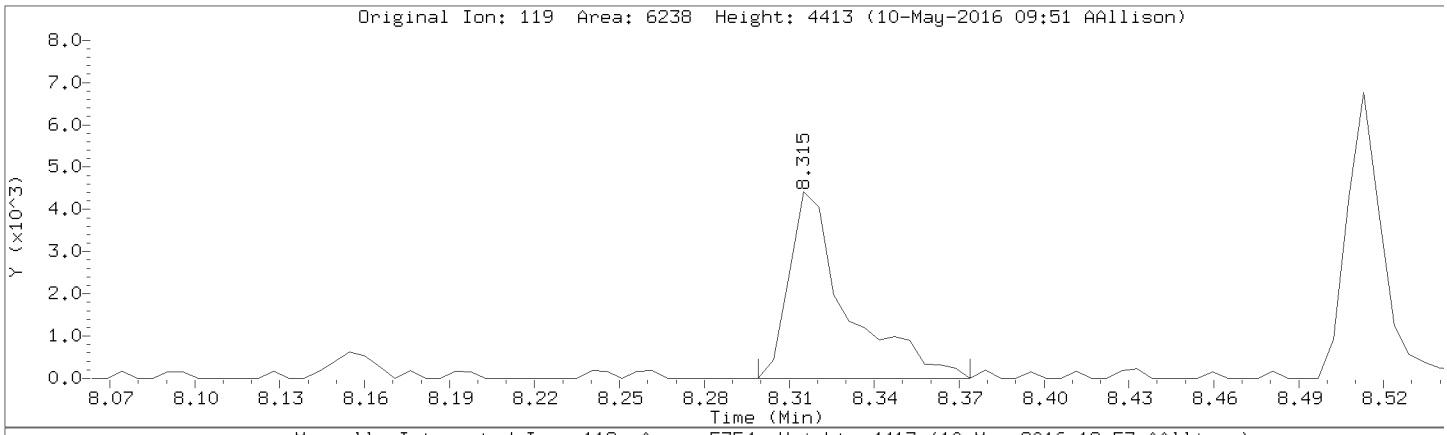


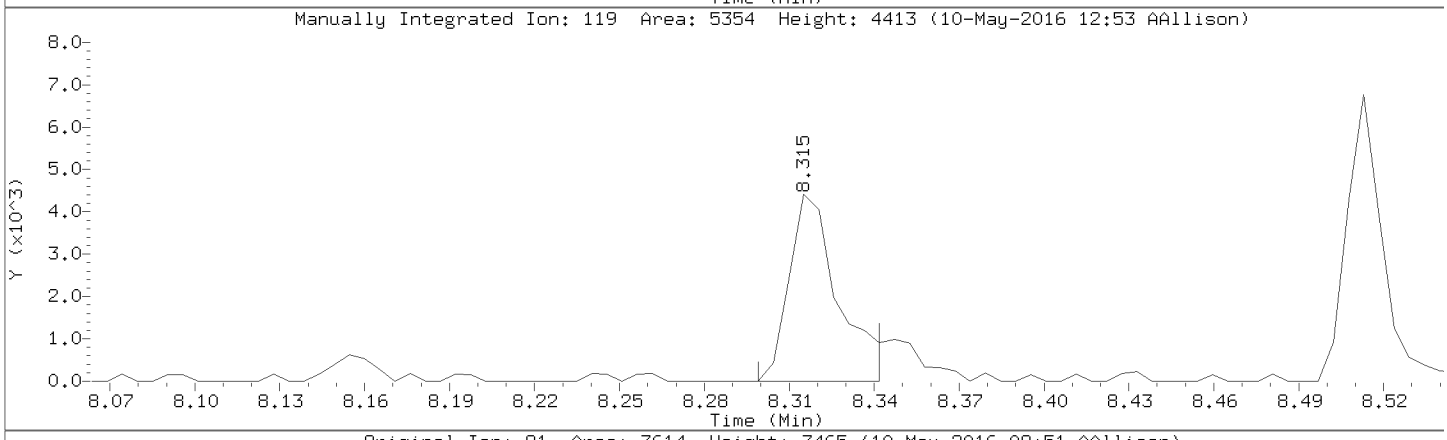


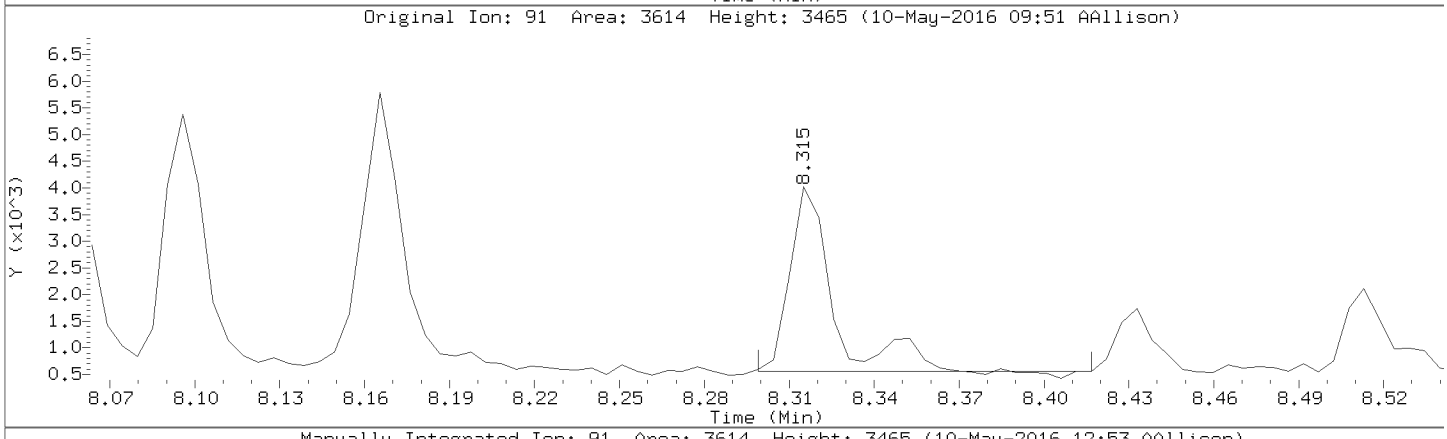


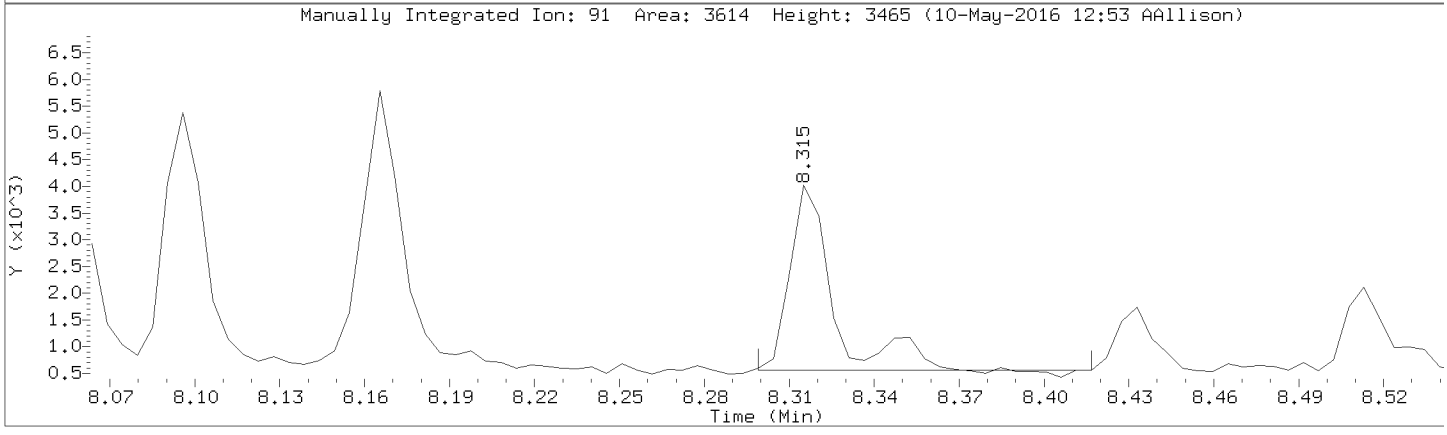
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

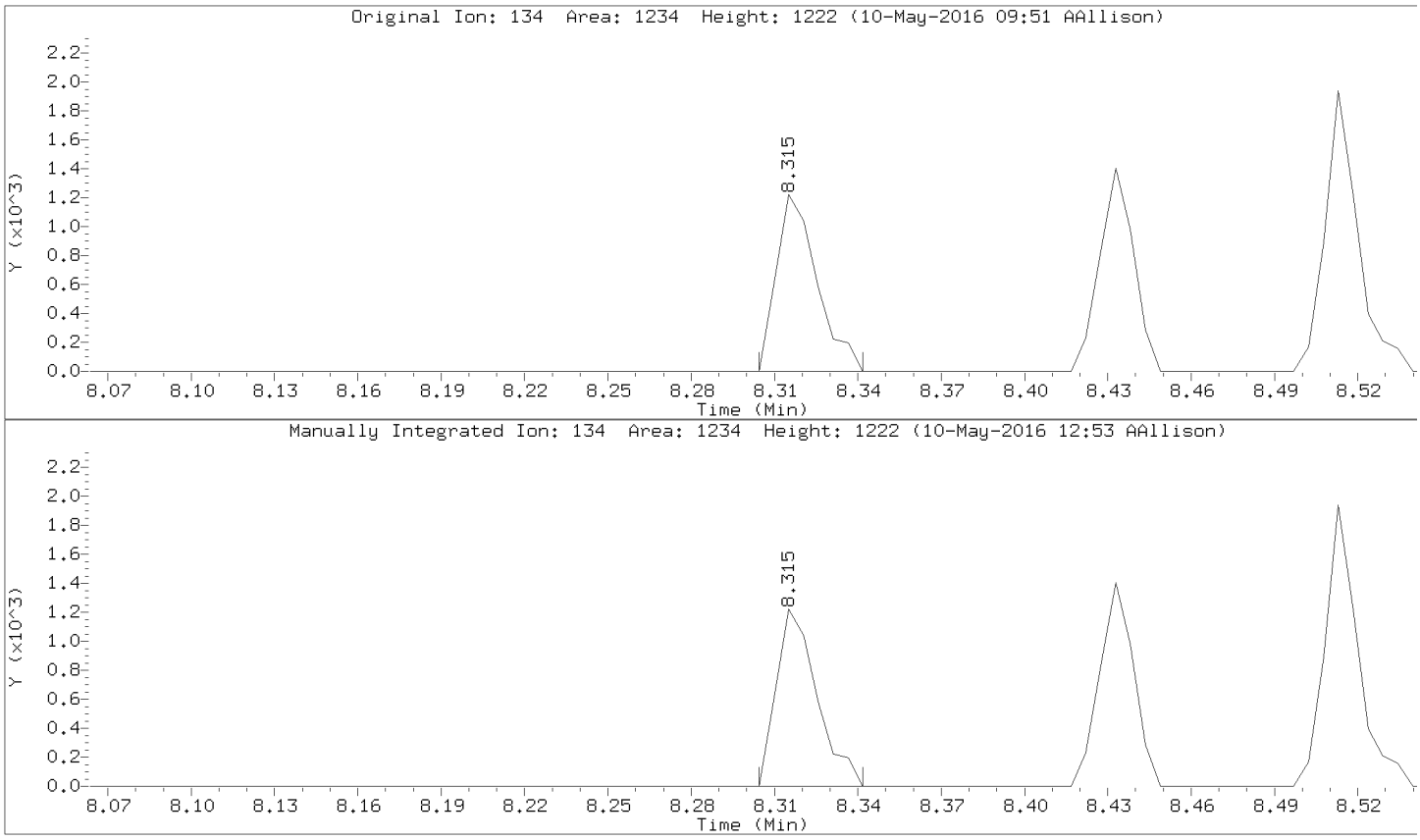






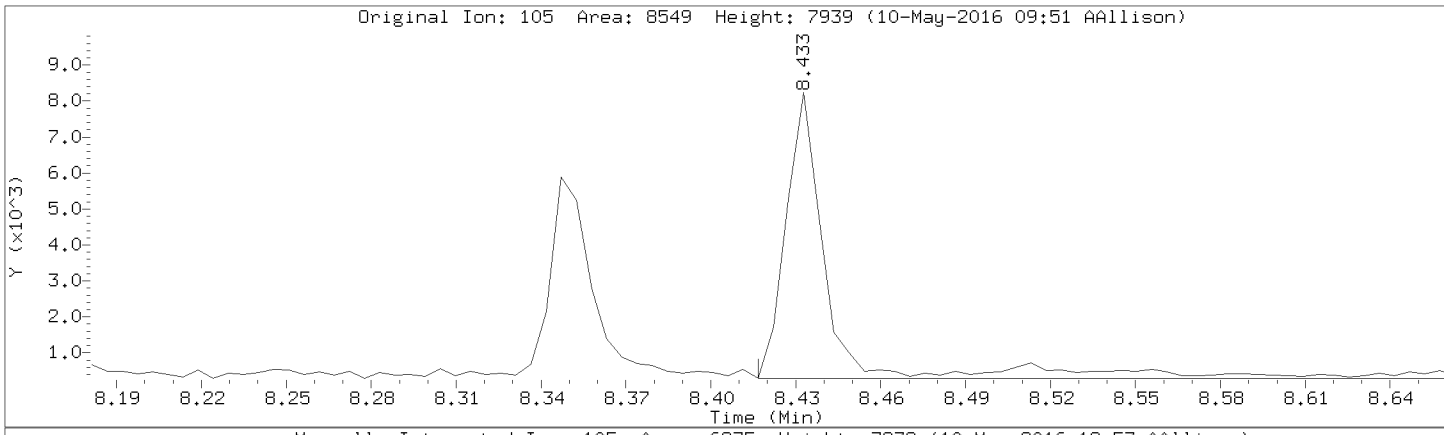


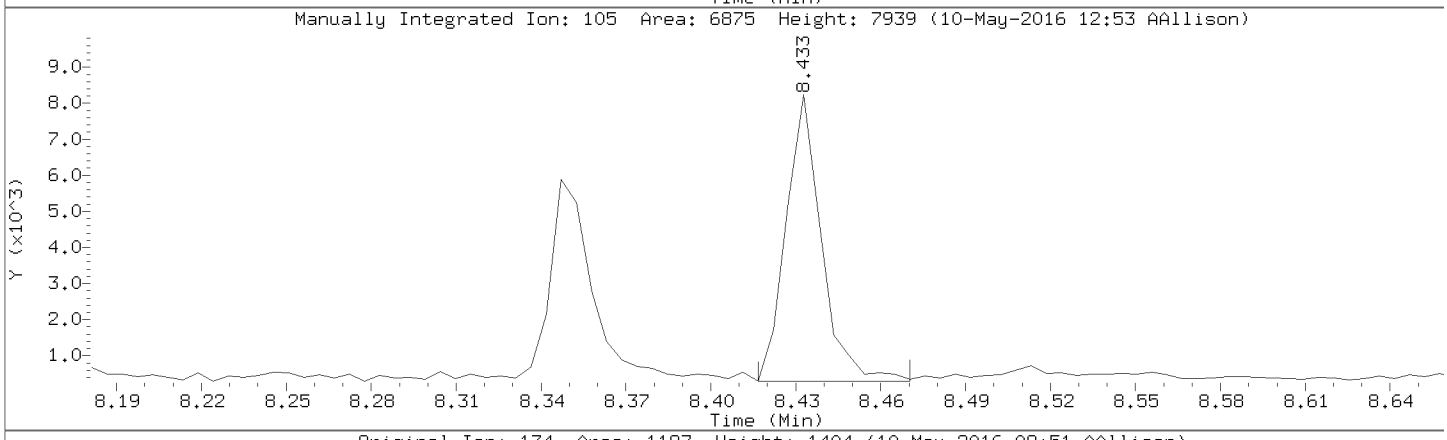
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

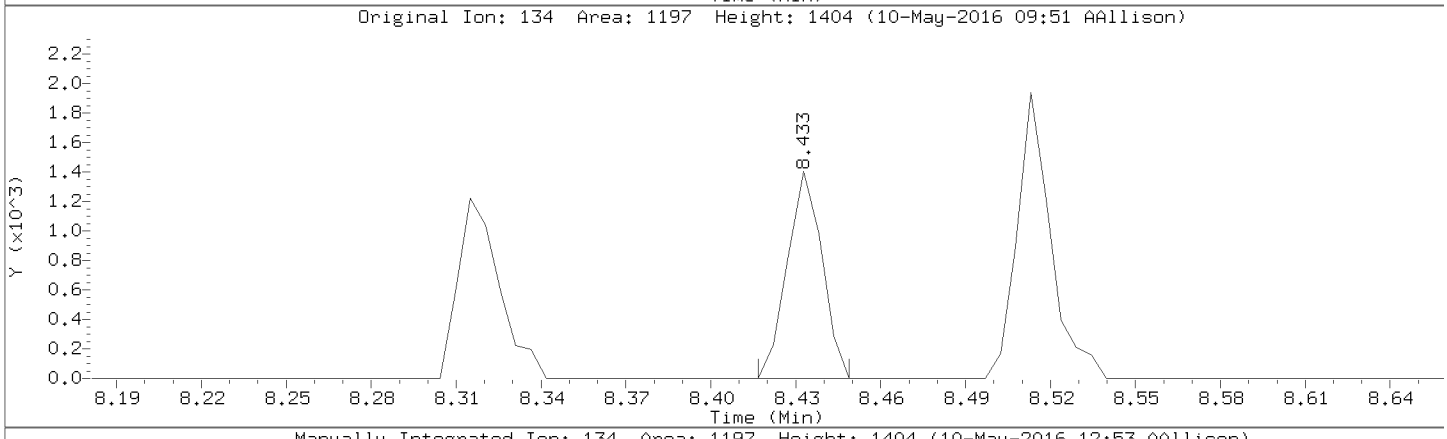


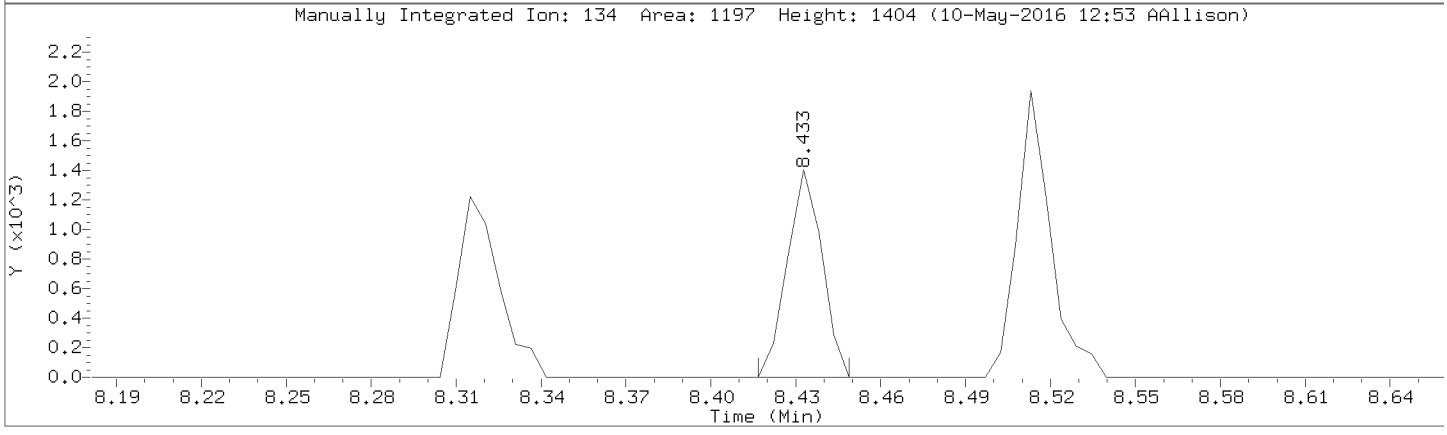
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: sec-Butylbenzene Review Code: GT
CAS Number: 135-98-8



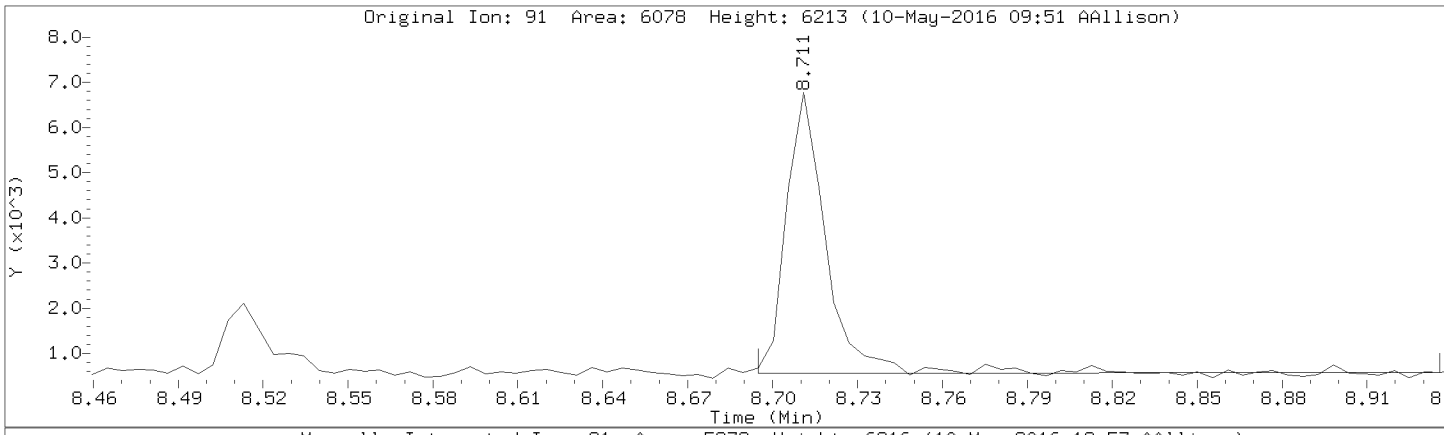


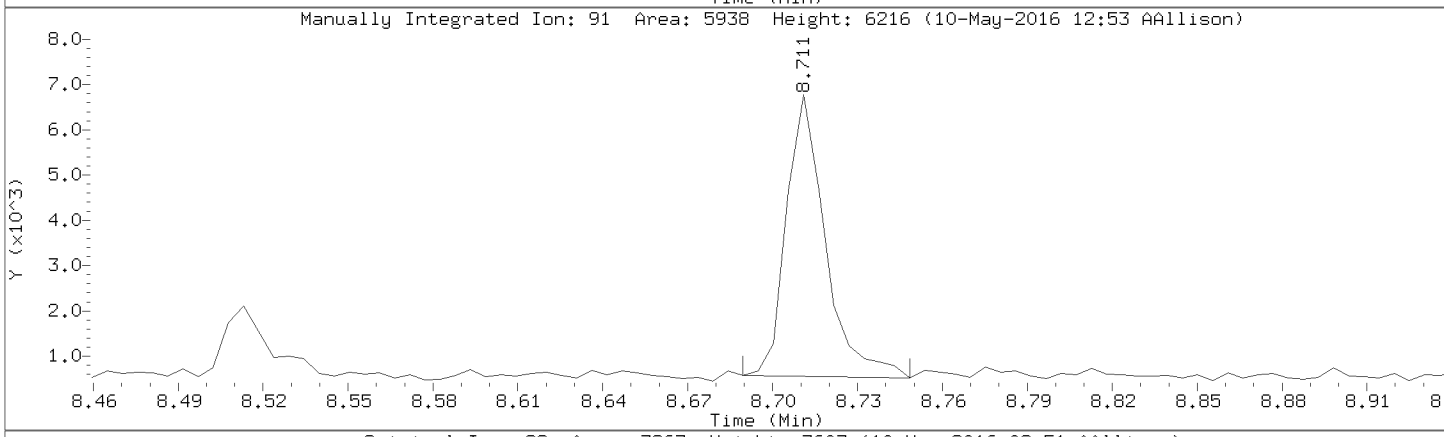


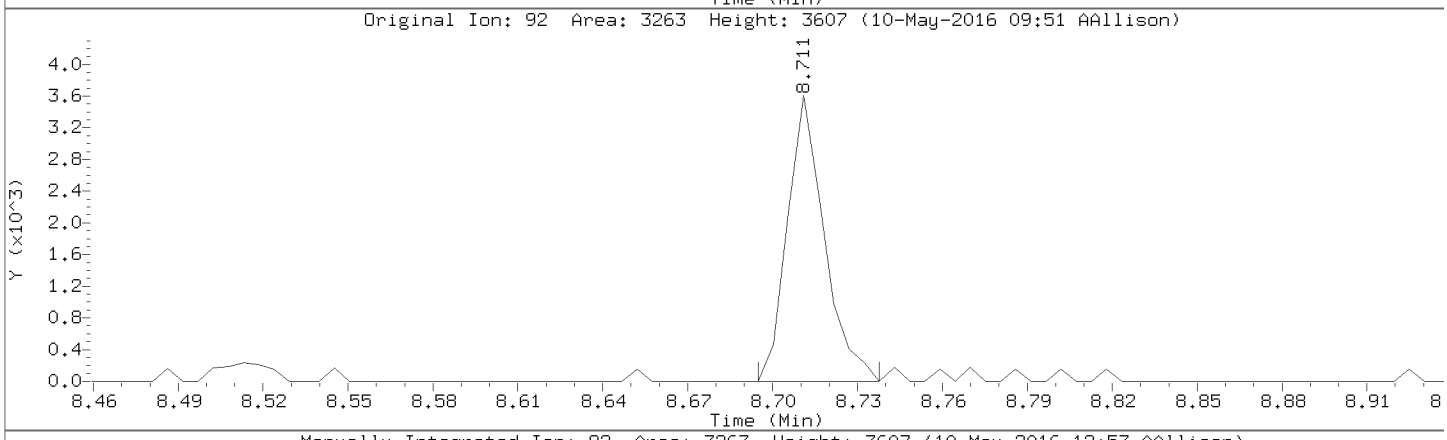


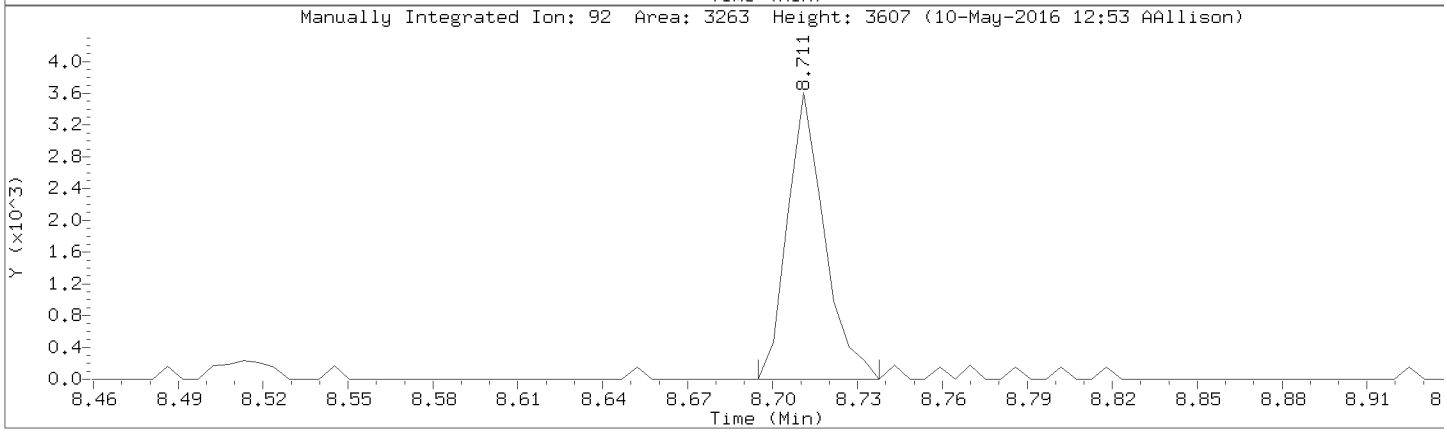
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: n-Butylbenzene Review Code: GT
CAS Number: 104-51-8

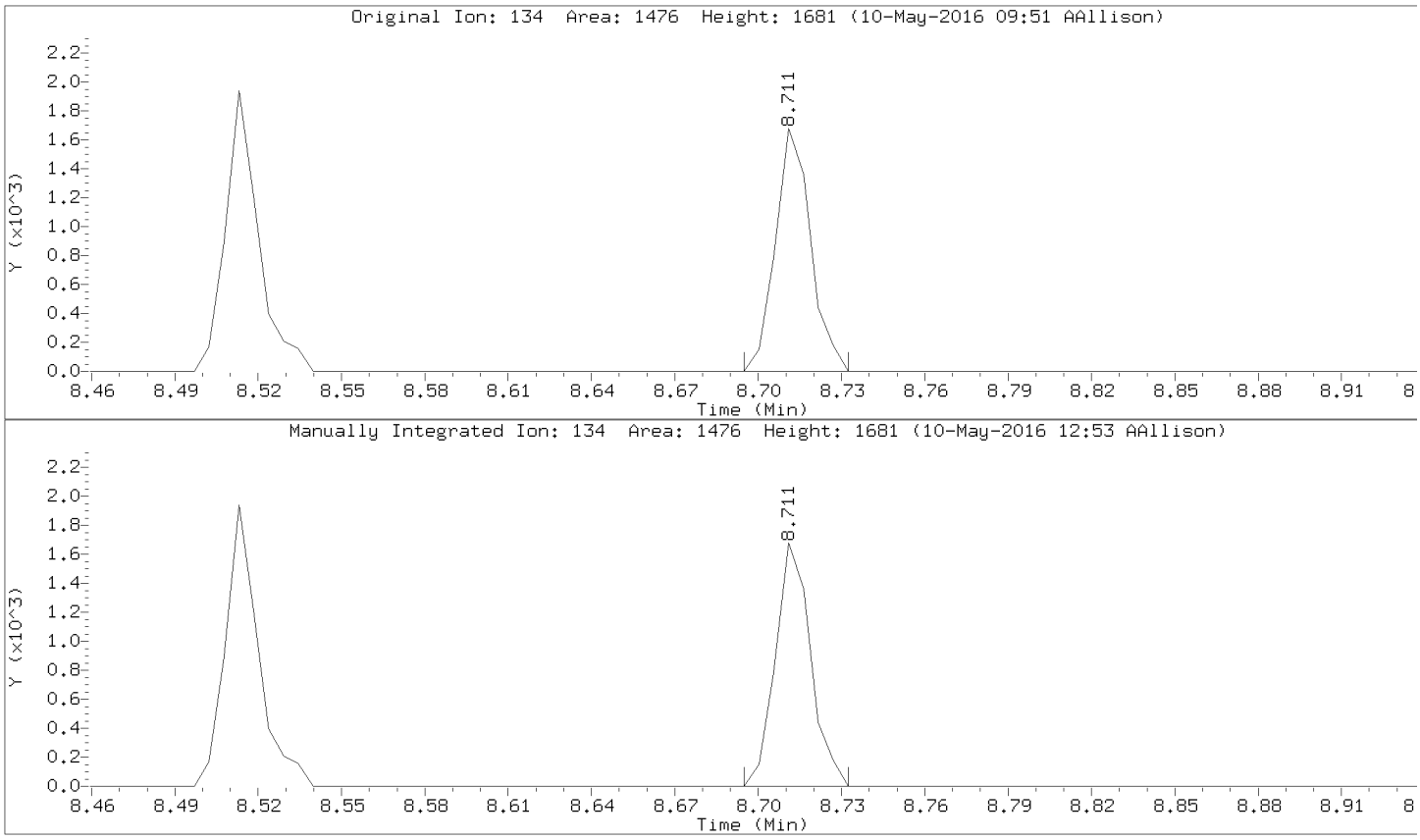






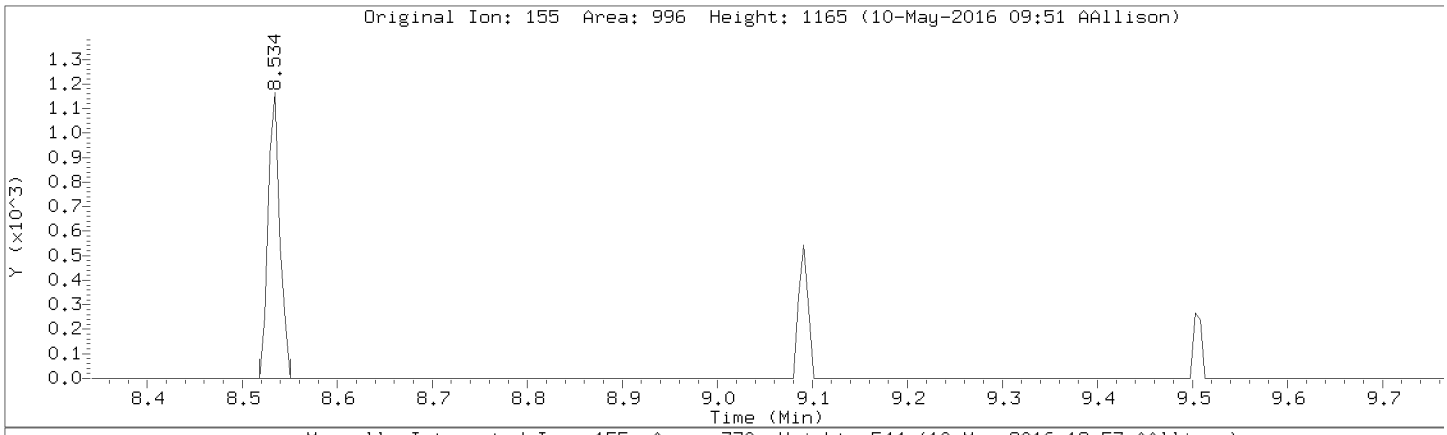


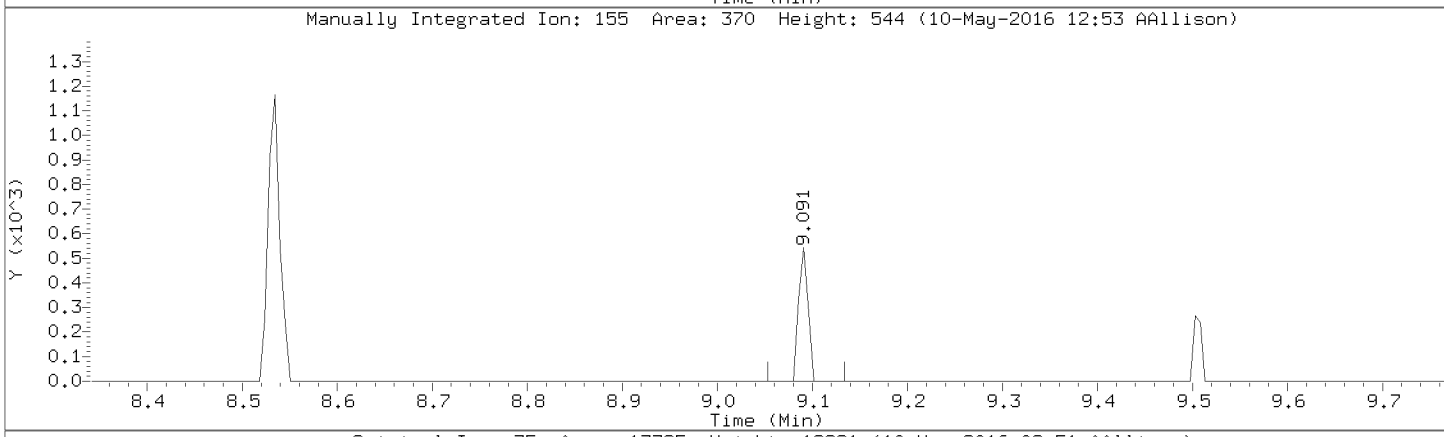
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

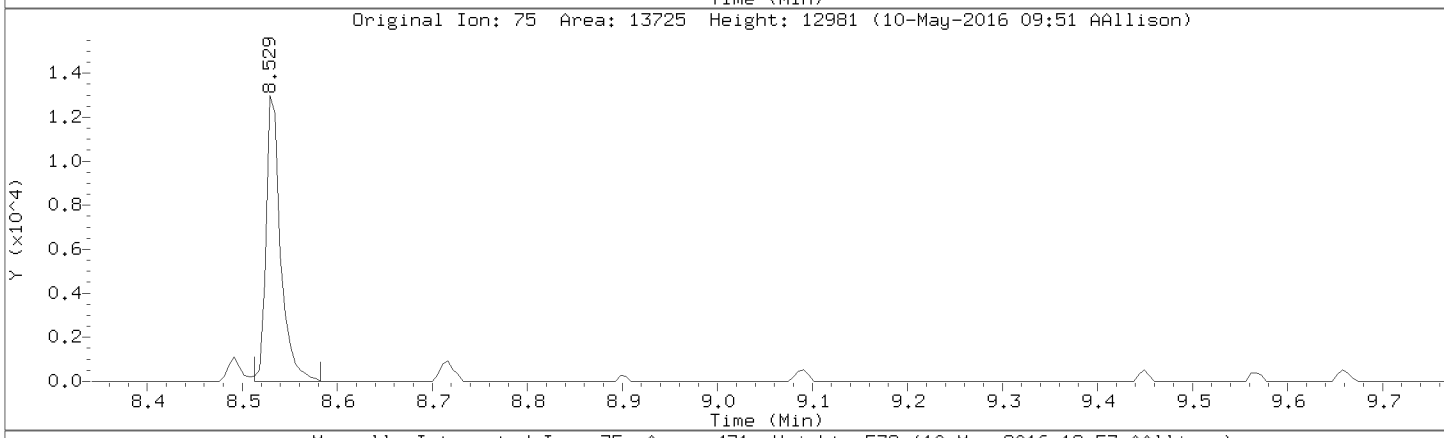


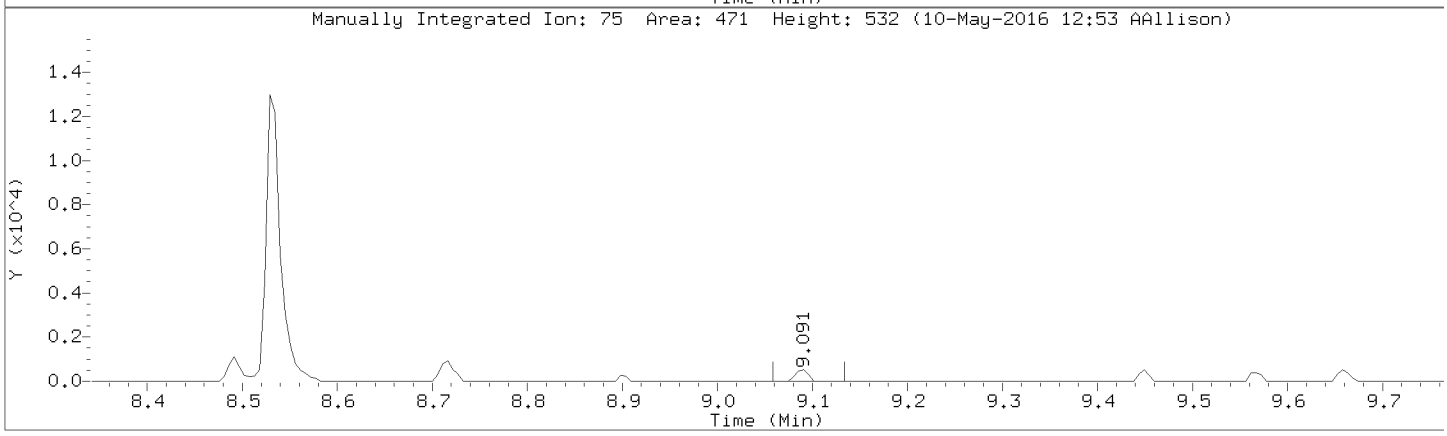
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 1,2-Dibromo-3-chloropropane Review Code: WP
CAS Number: 96-12-8

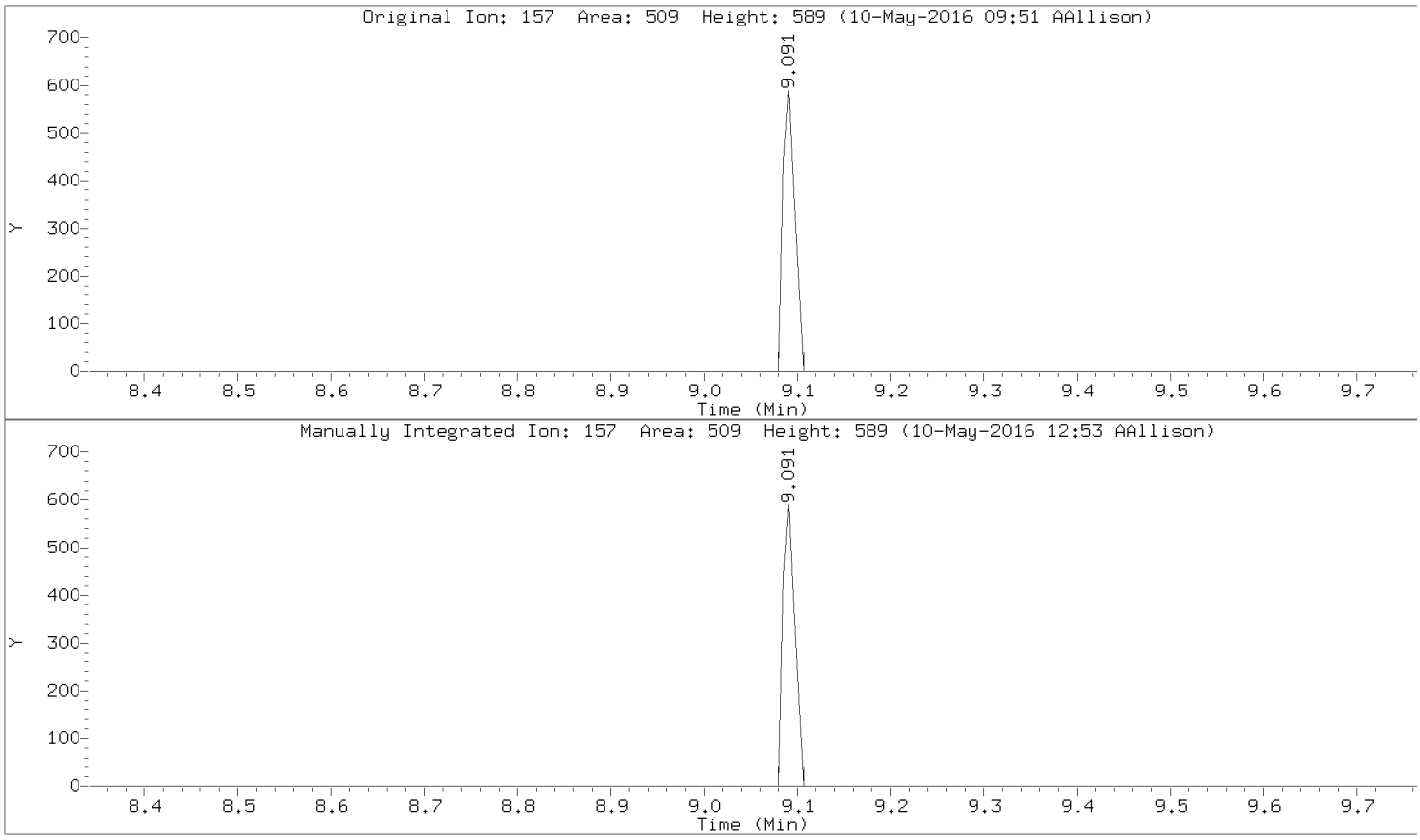






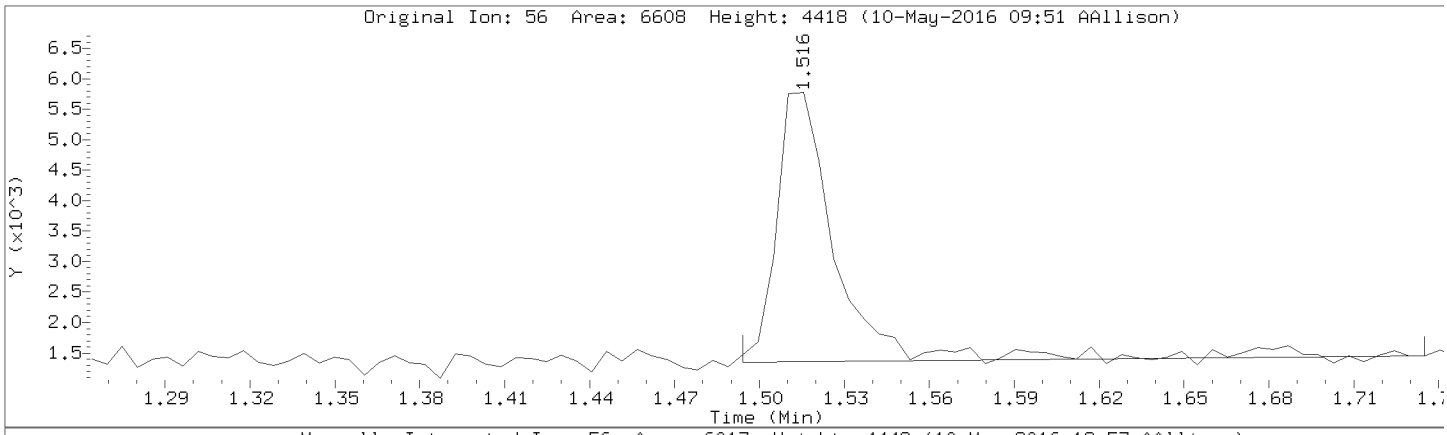


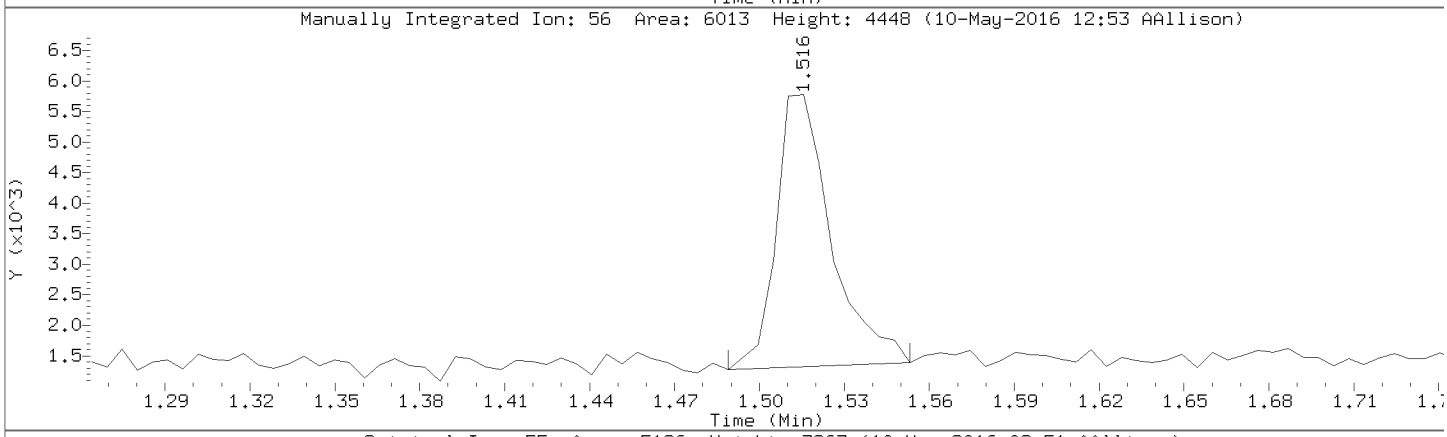
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

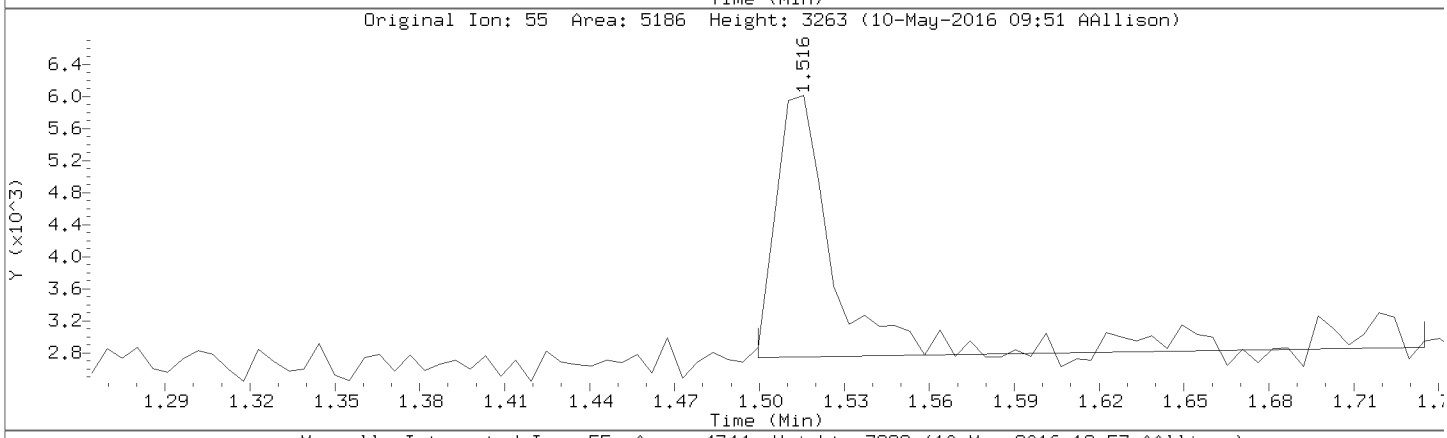


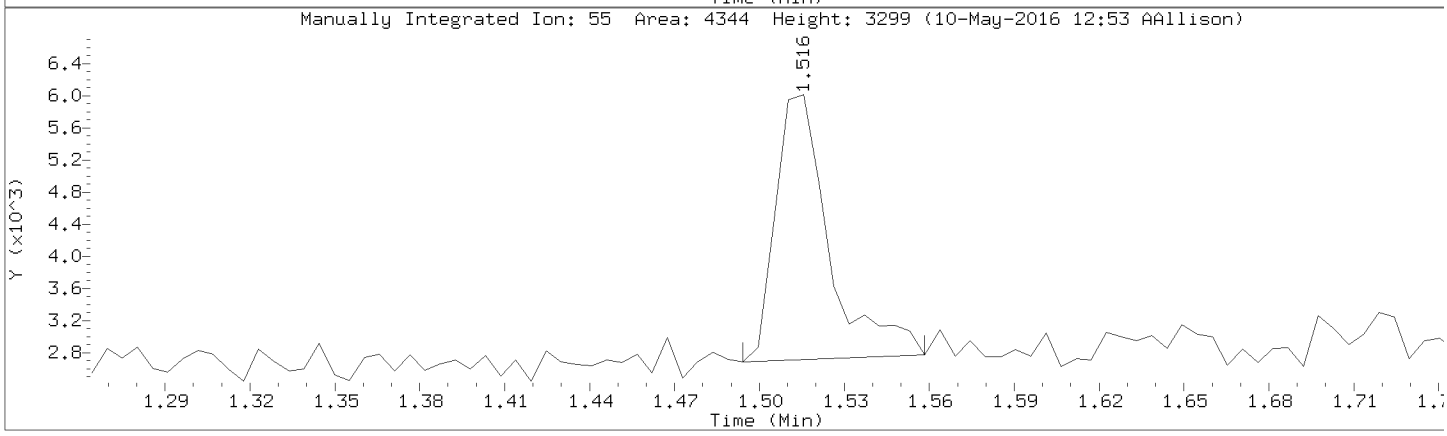
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Acrolein Review Code: GT
CAS Number: 107-02-8



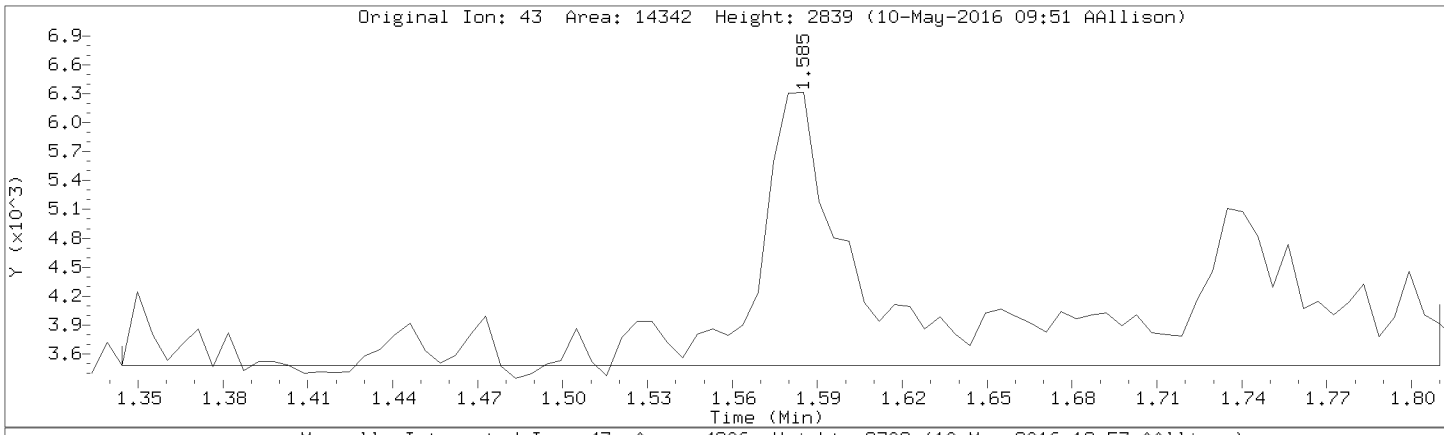


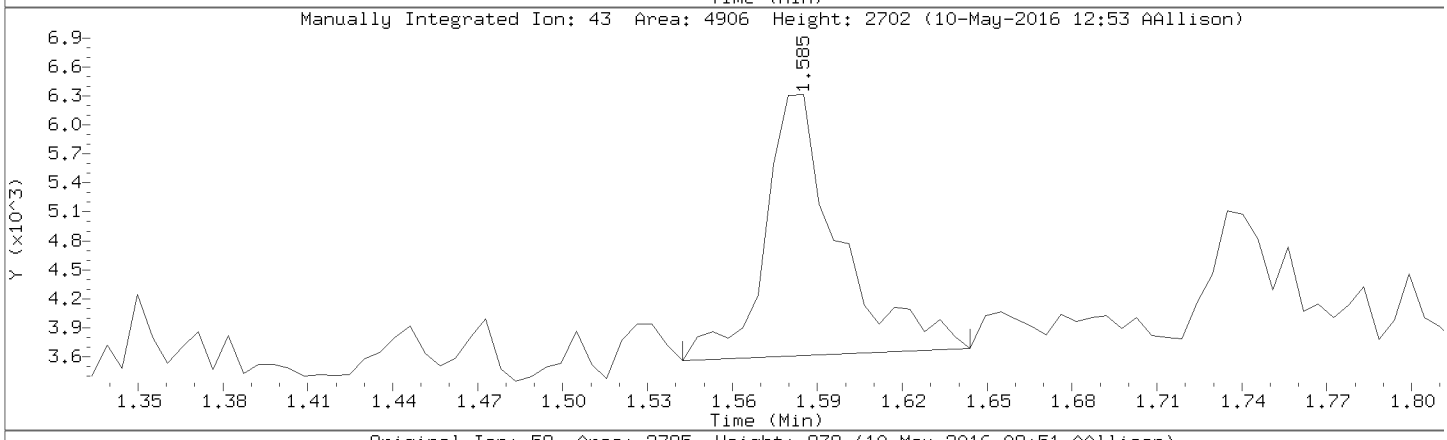


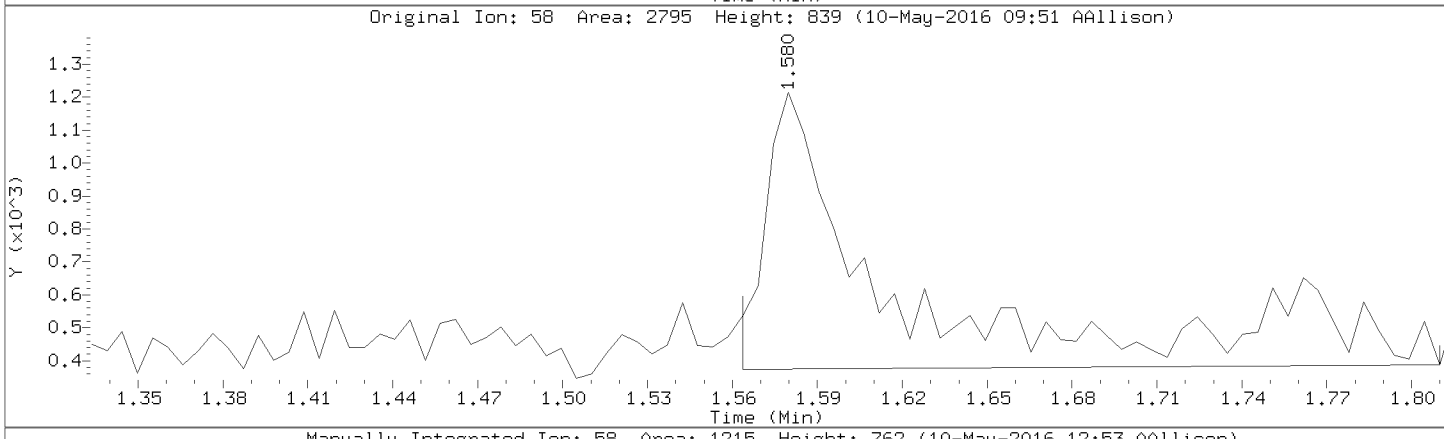


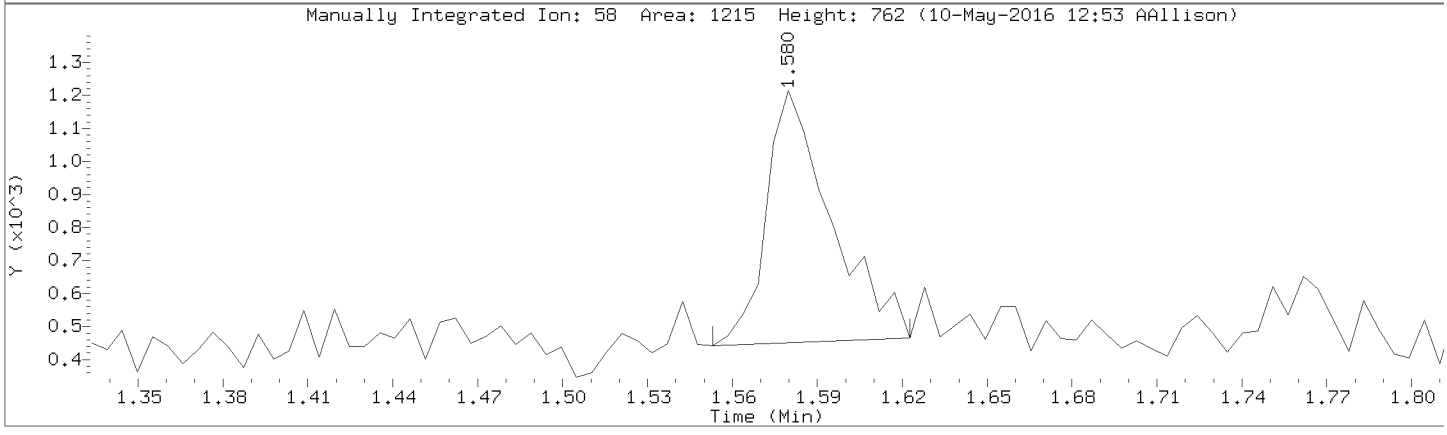
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Acetone Review Code: GT
CAS Number: 67-64-1



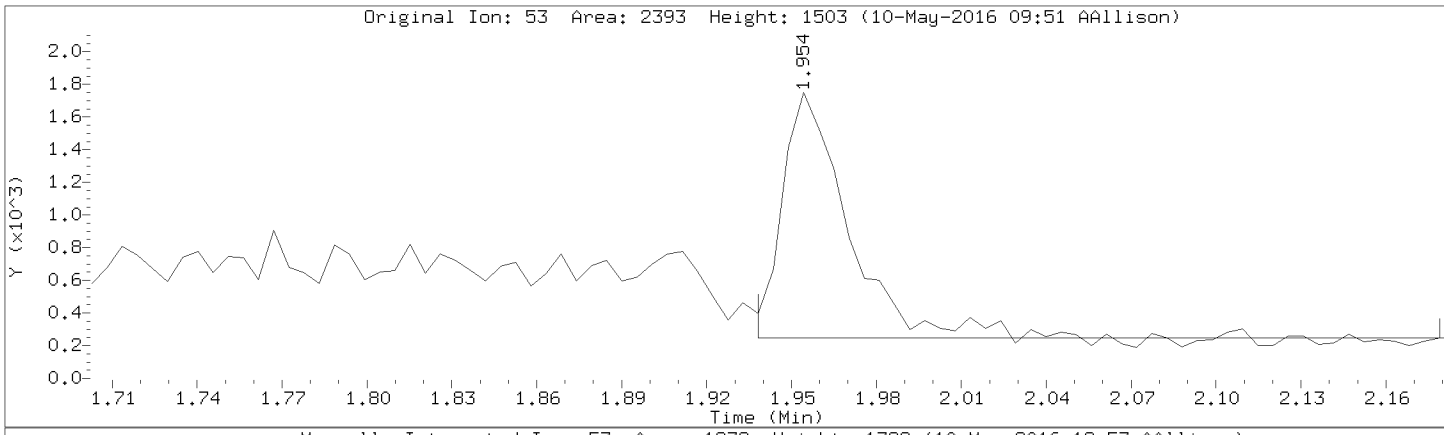


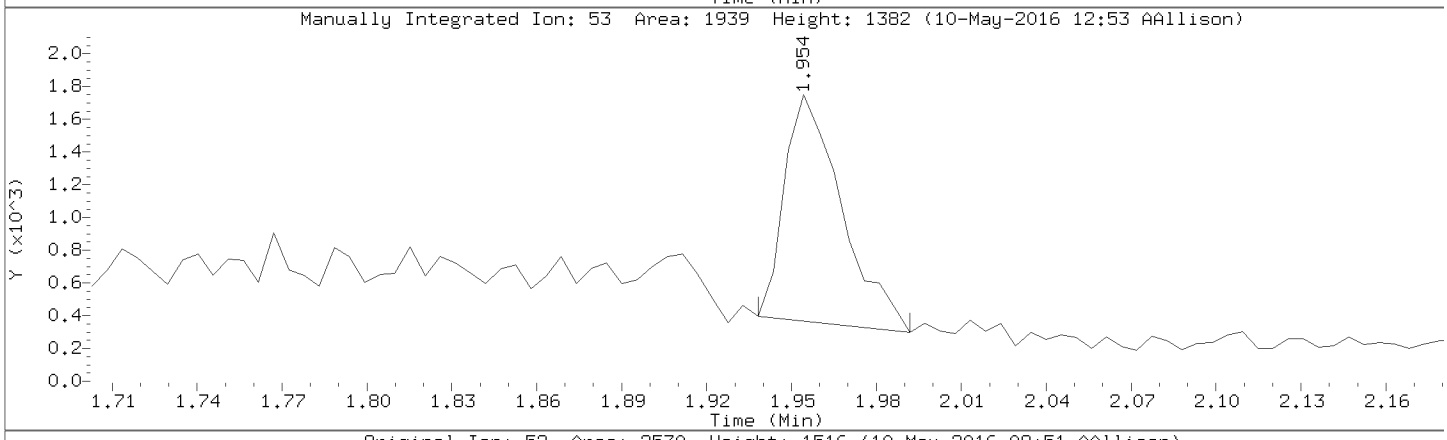


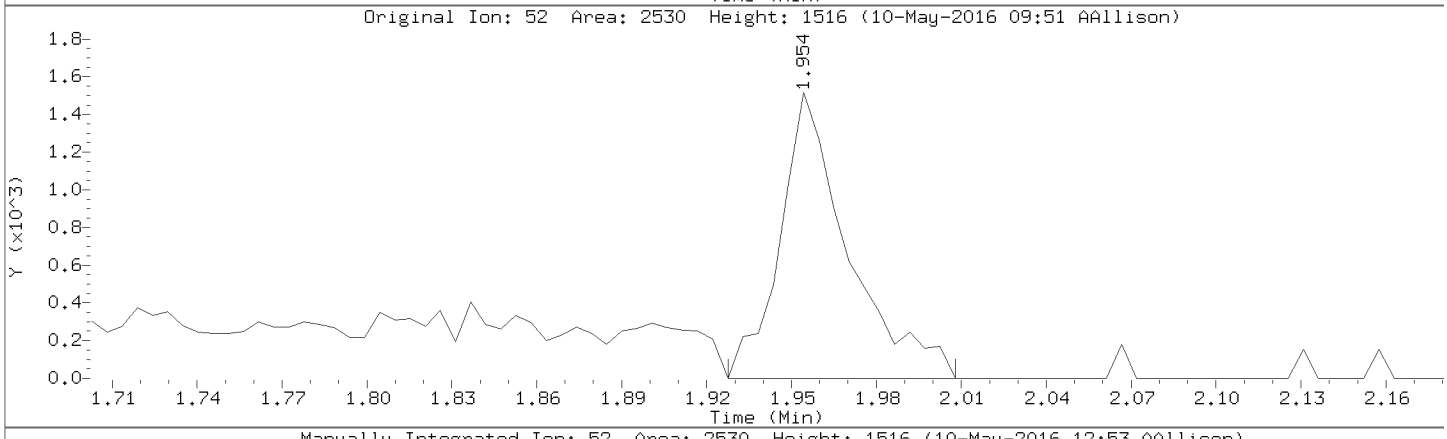


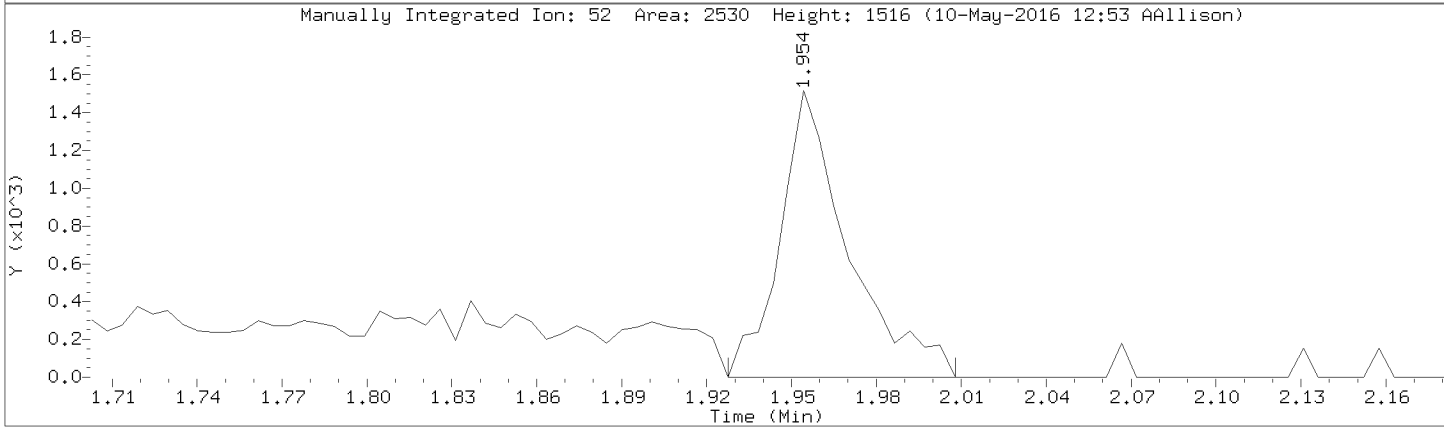
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Acrylonitrile Review Code: GT
CAS Number: 107-13-1



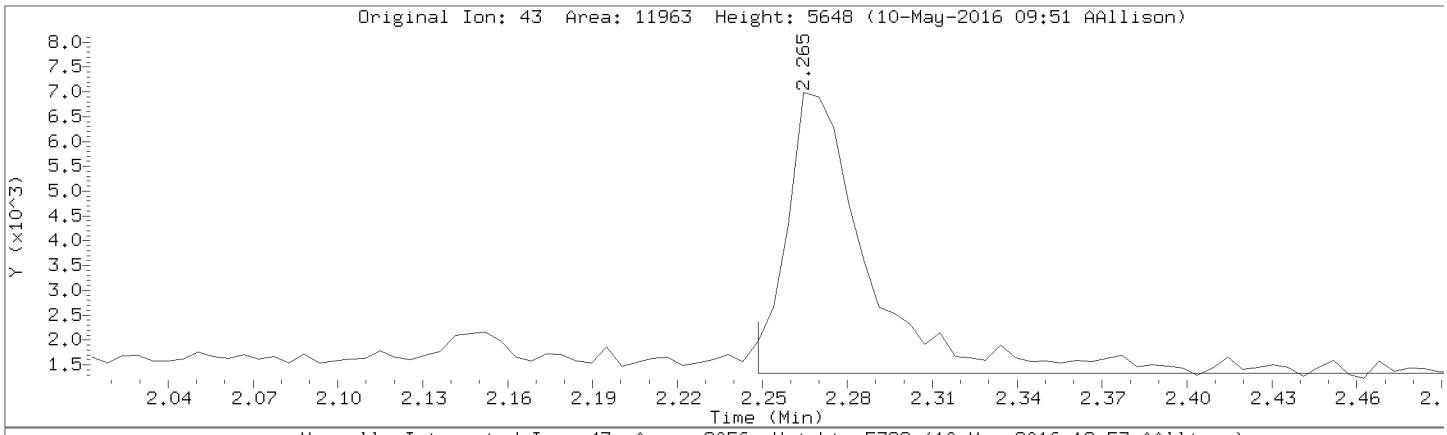


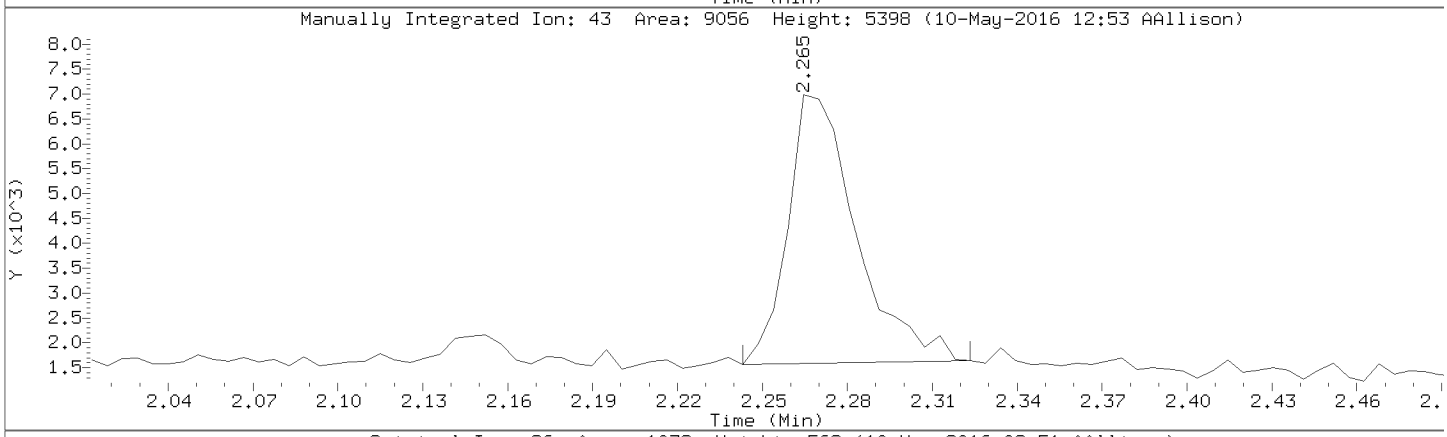


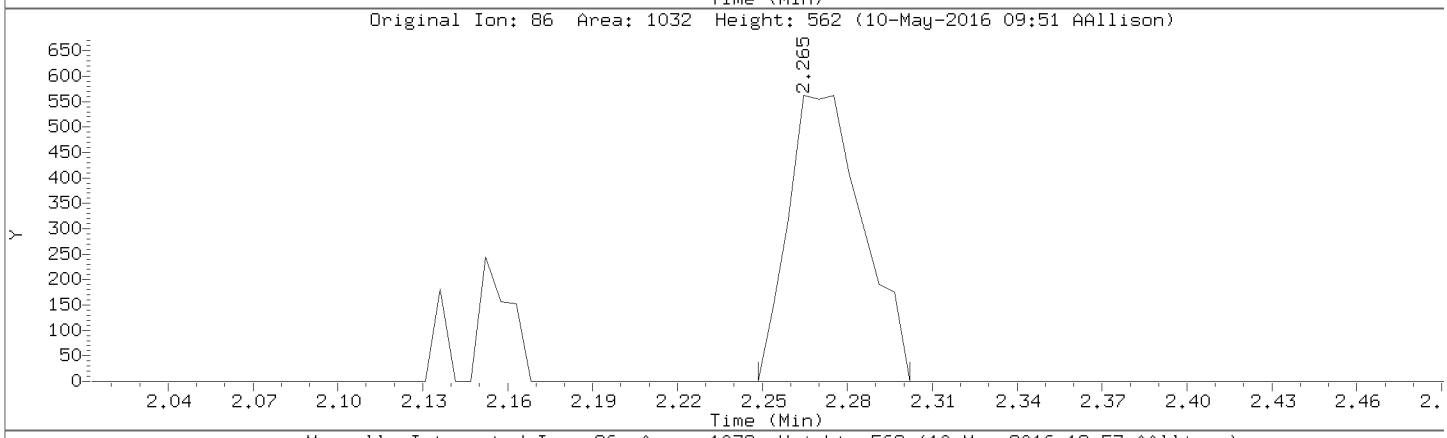


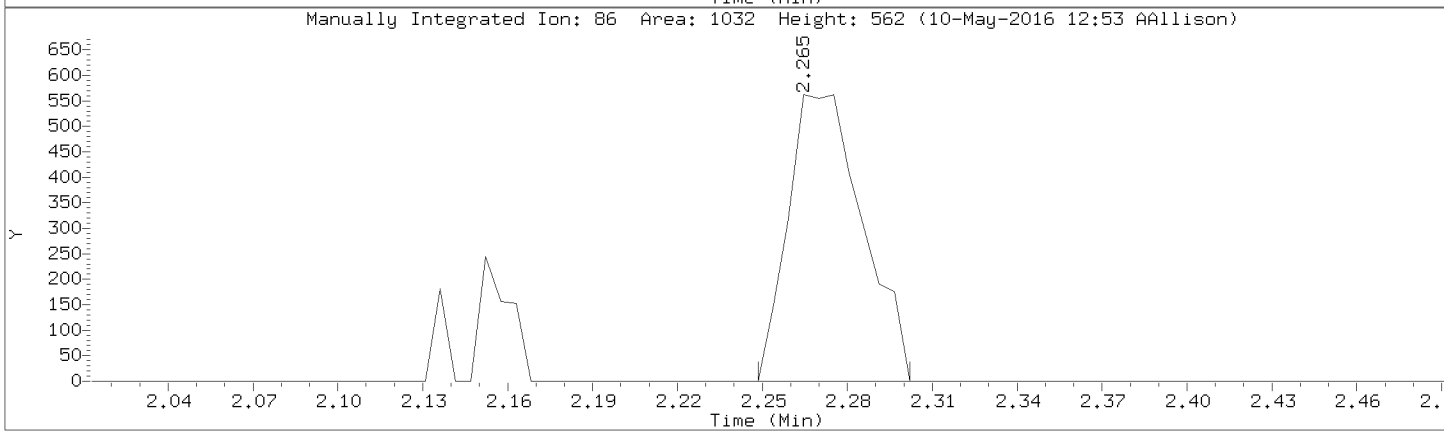
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Vinyl Acetate Review Code: GT
CAS Number: 108-05-4



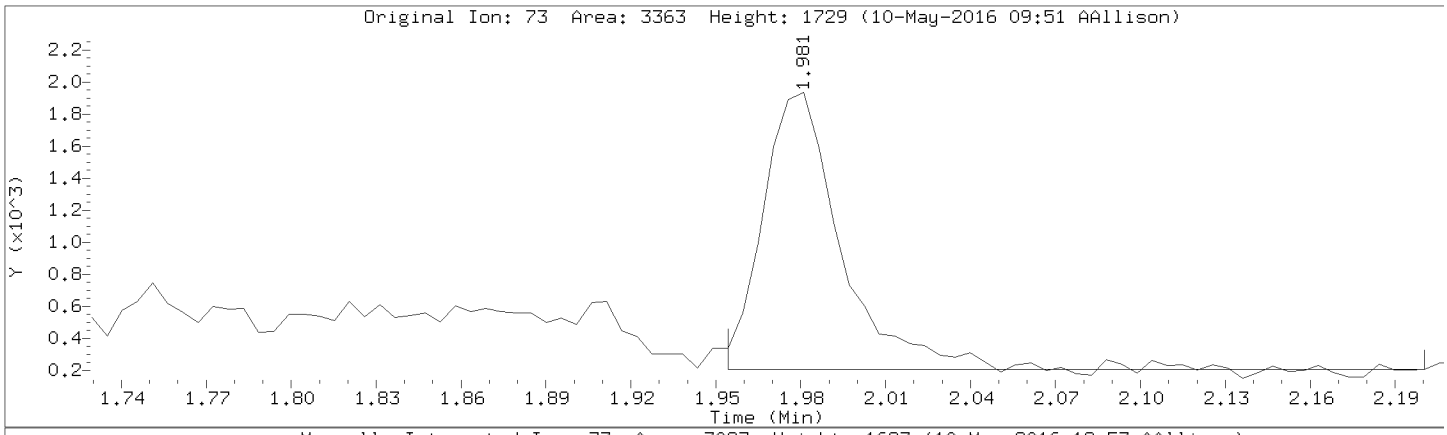


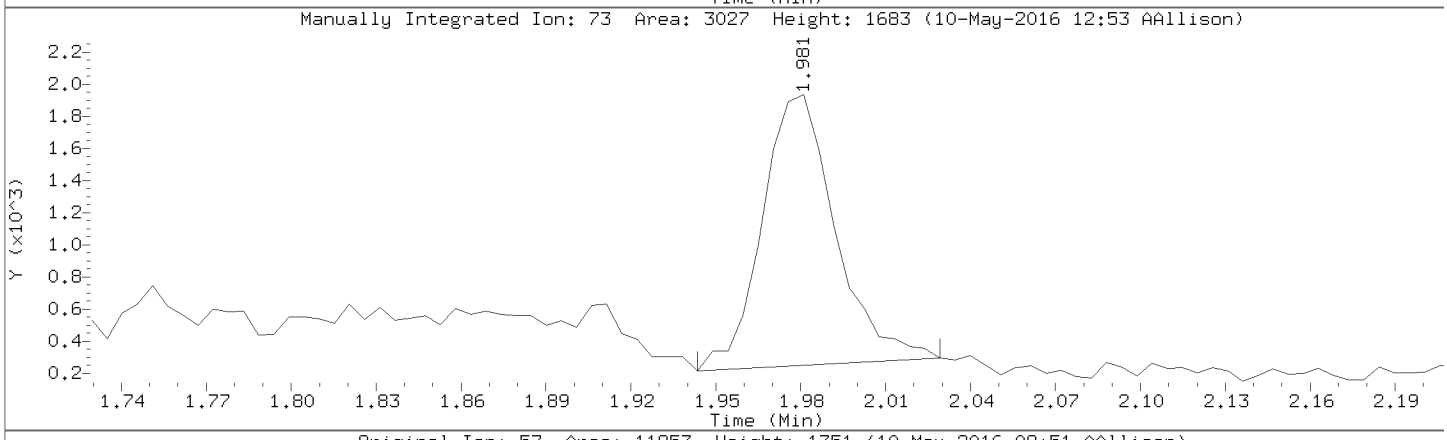


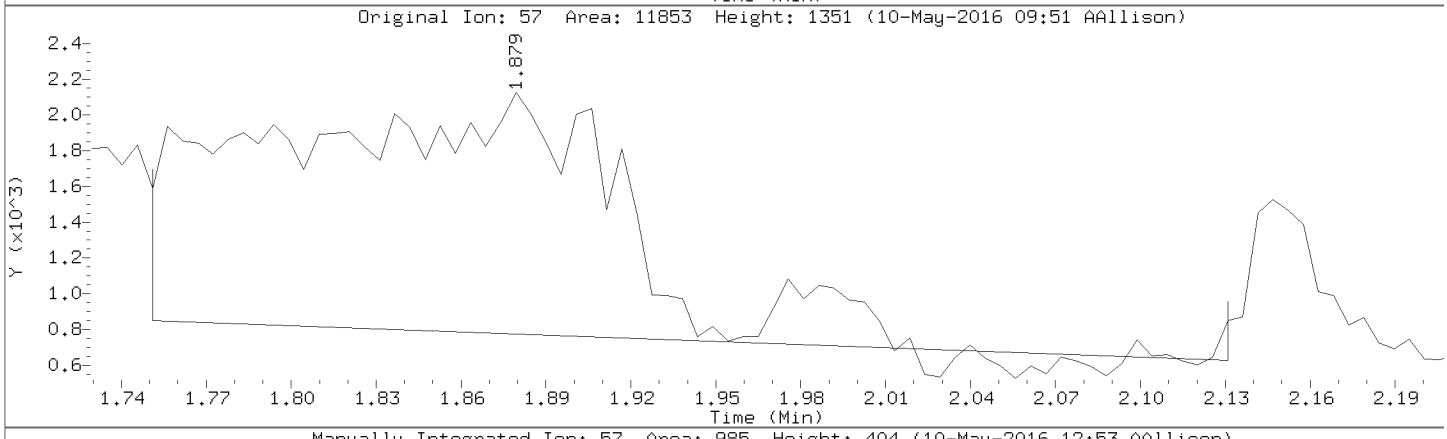


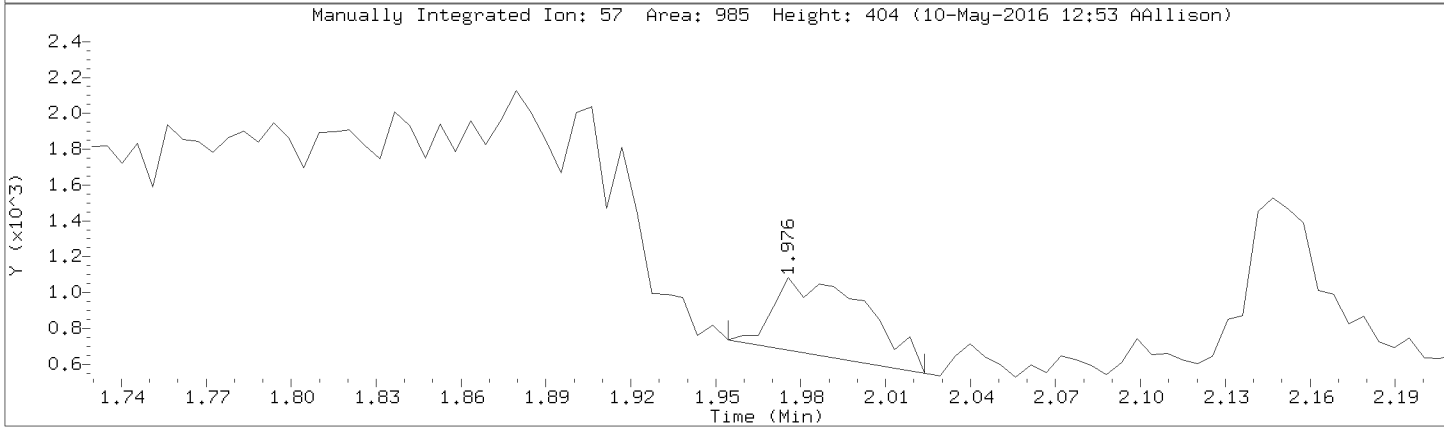
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Methyl-tert-butyl ether Review Code: GT
CAS Number: 1634-04-4



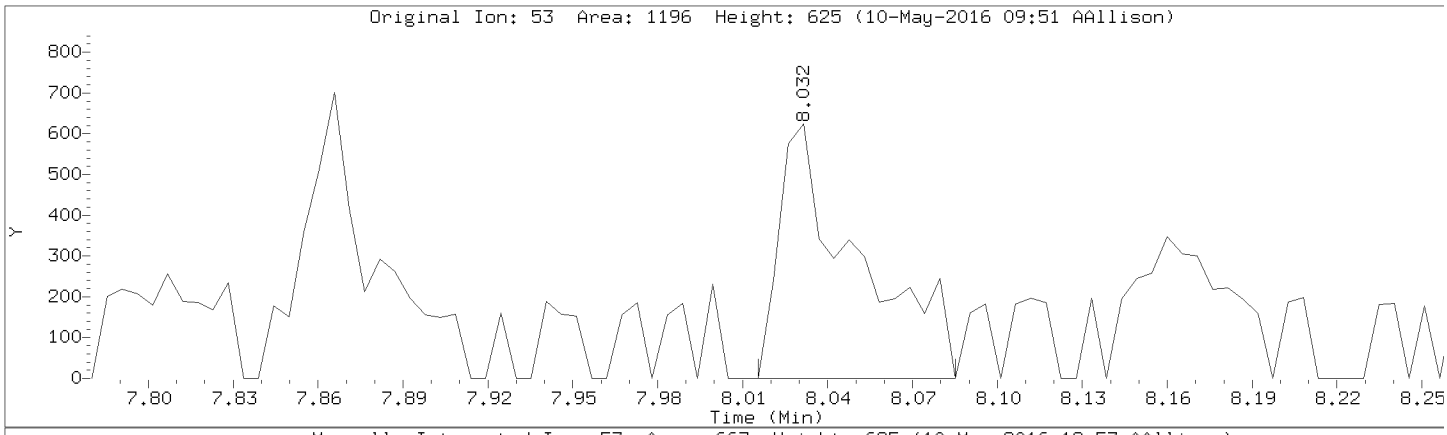


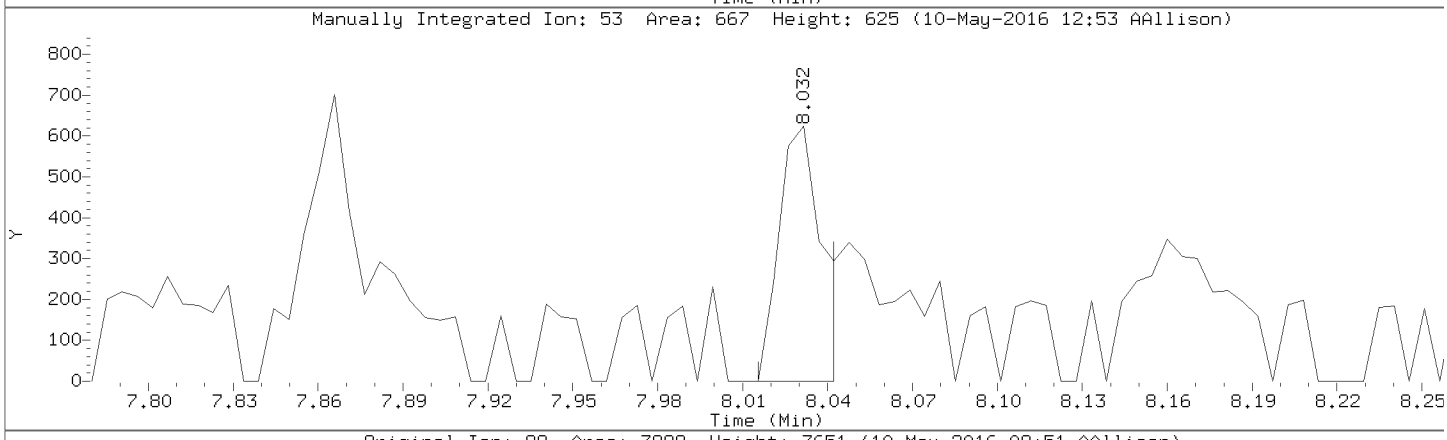


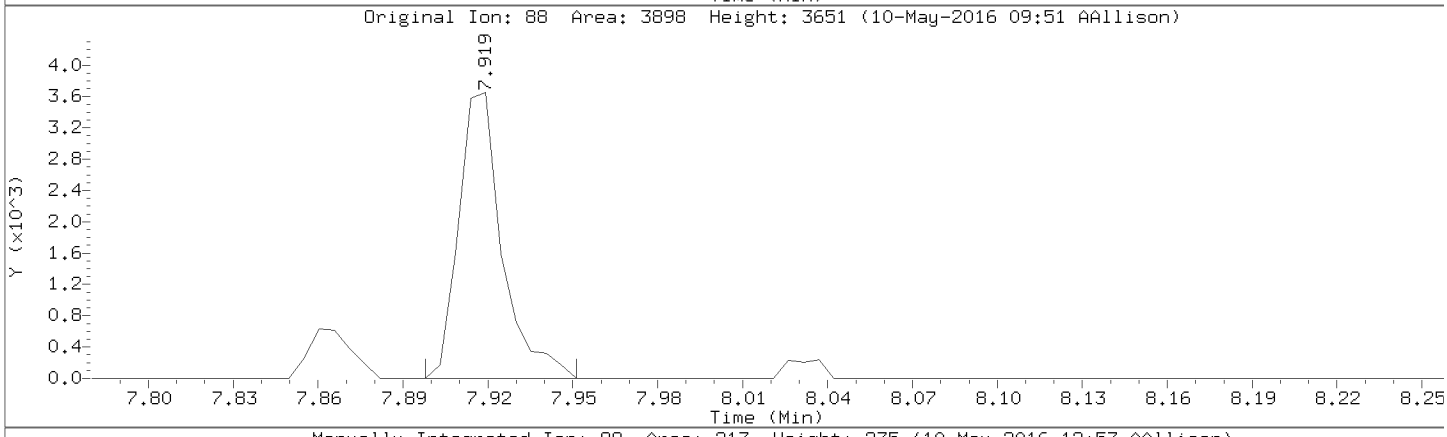


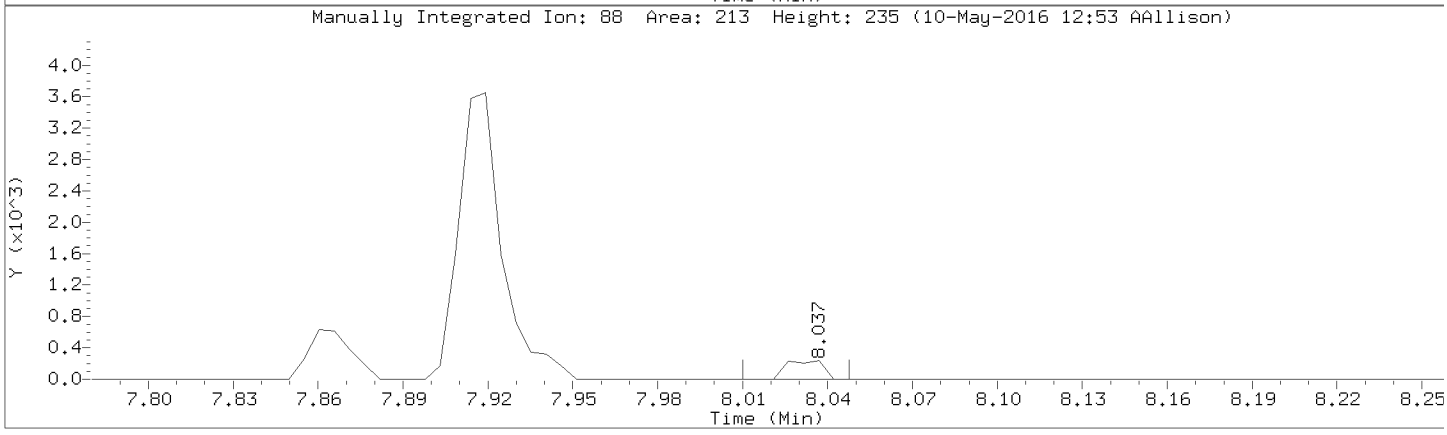
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: trans-1,4-Dichloro-2-butene Review Code: WP
CAS Number:

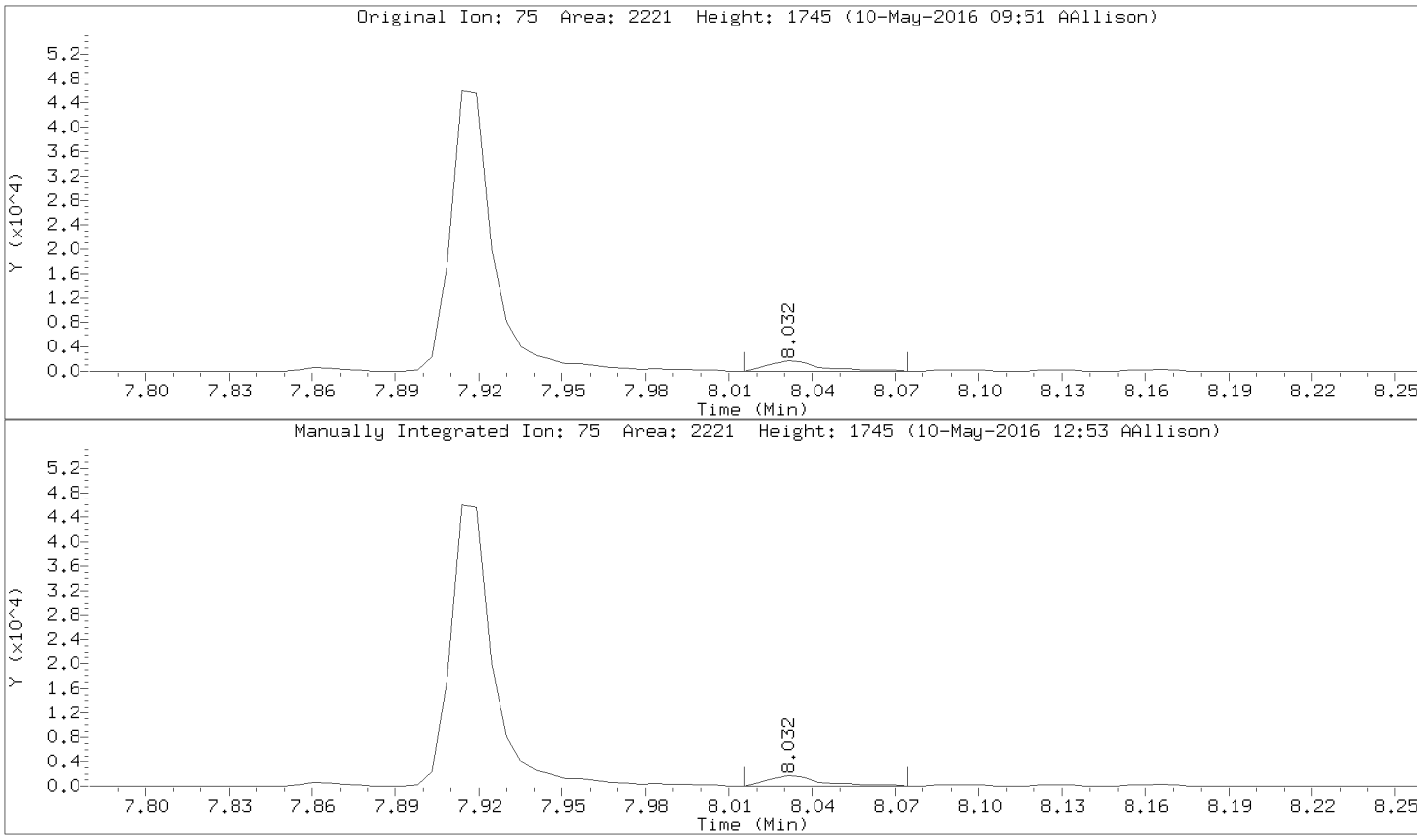






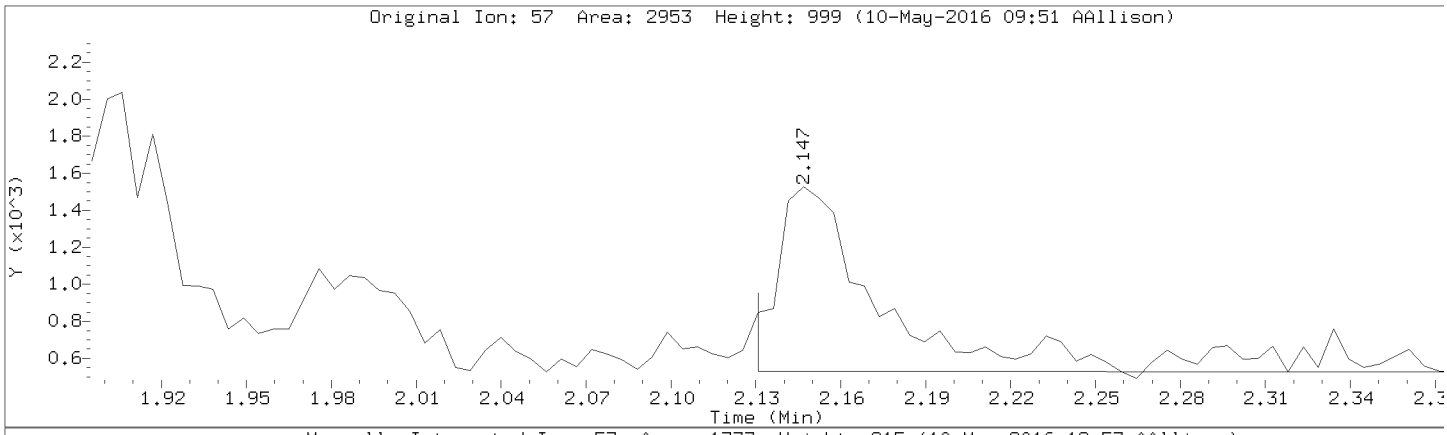


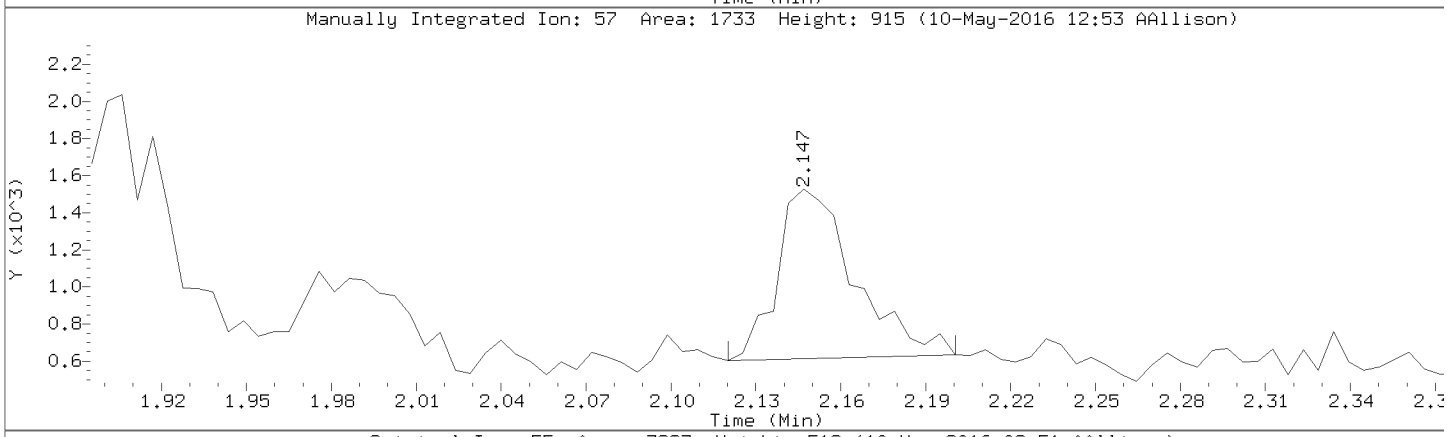
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

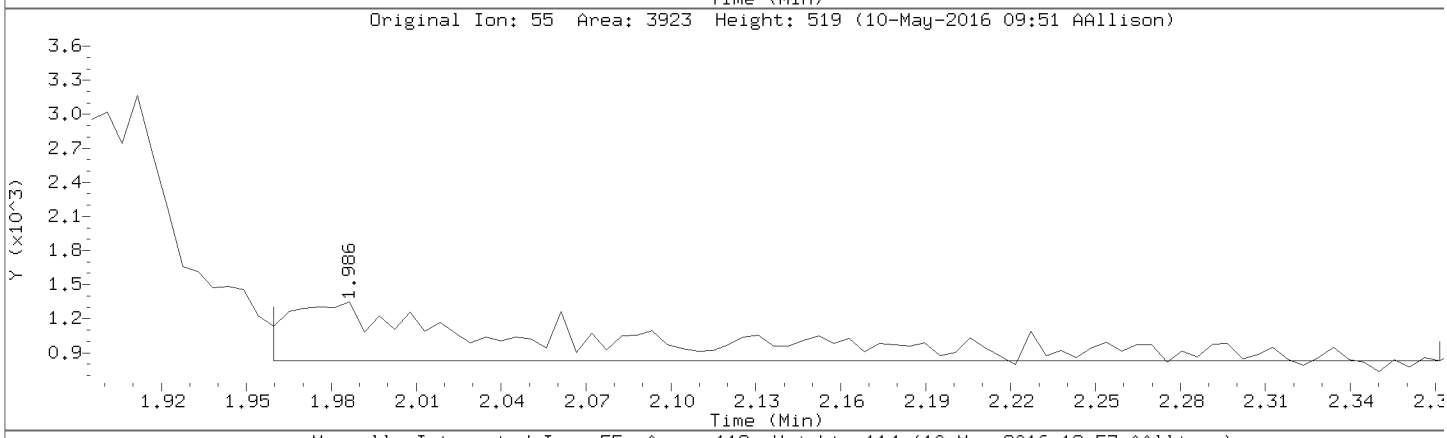


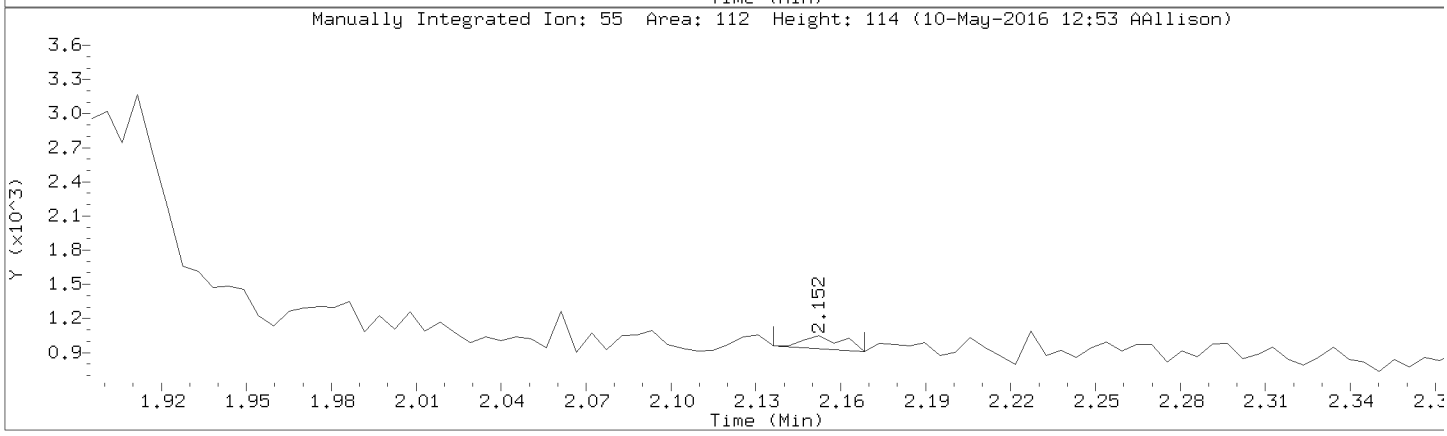
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: n-Hexane Review Code: GT
CAS Number:



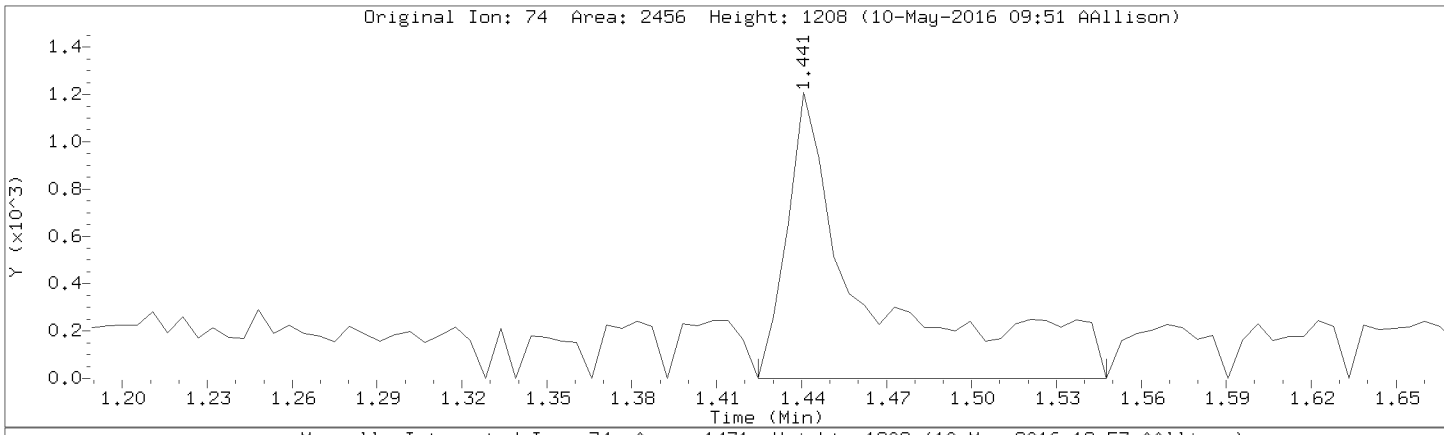


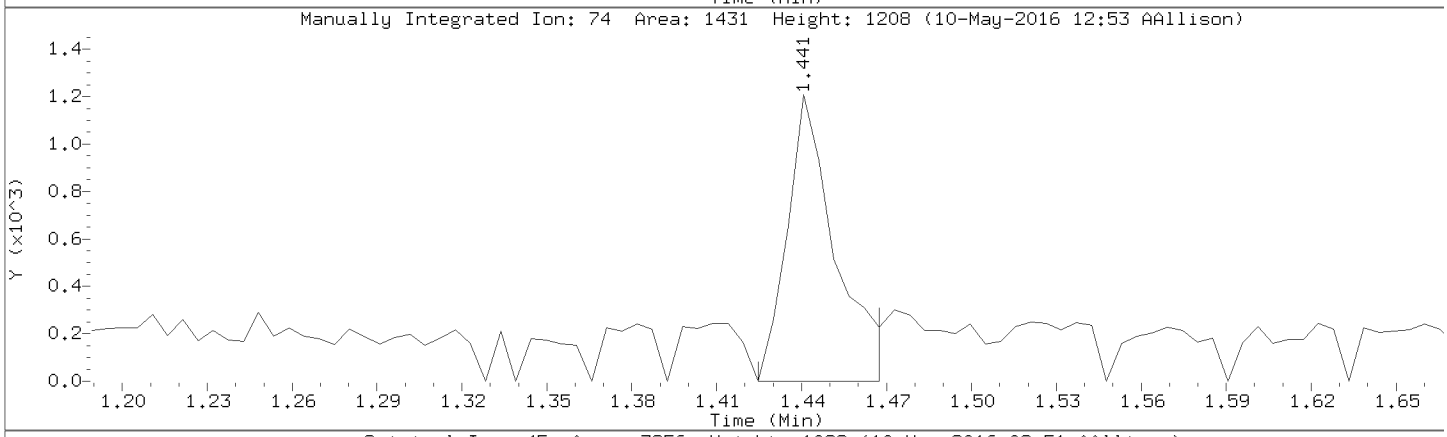


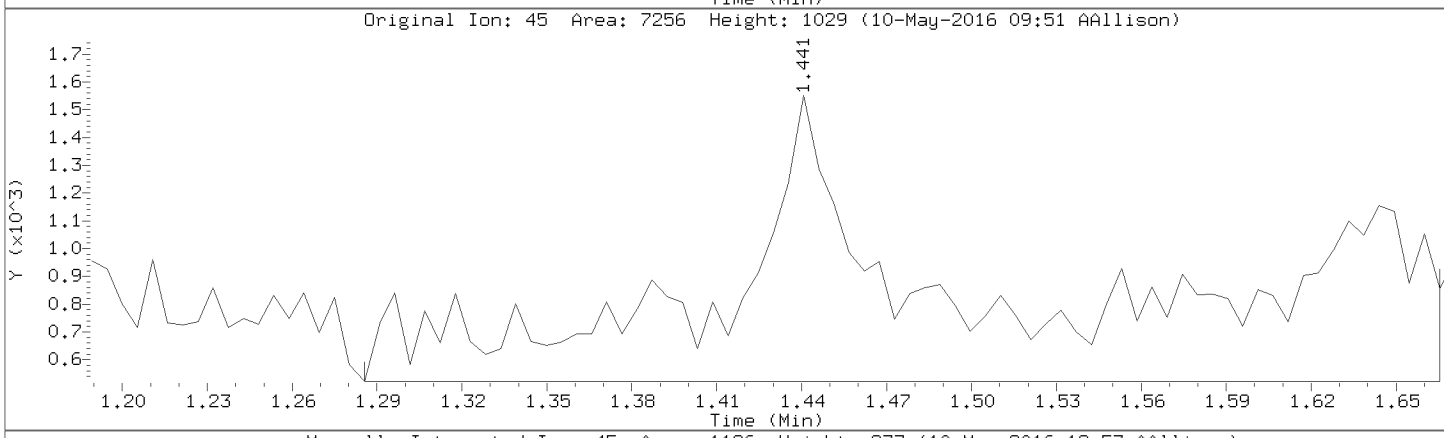


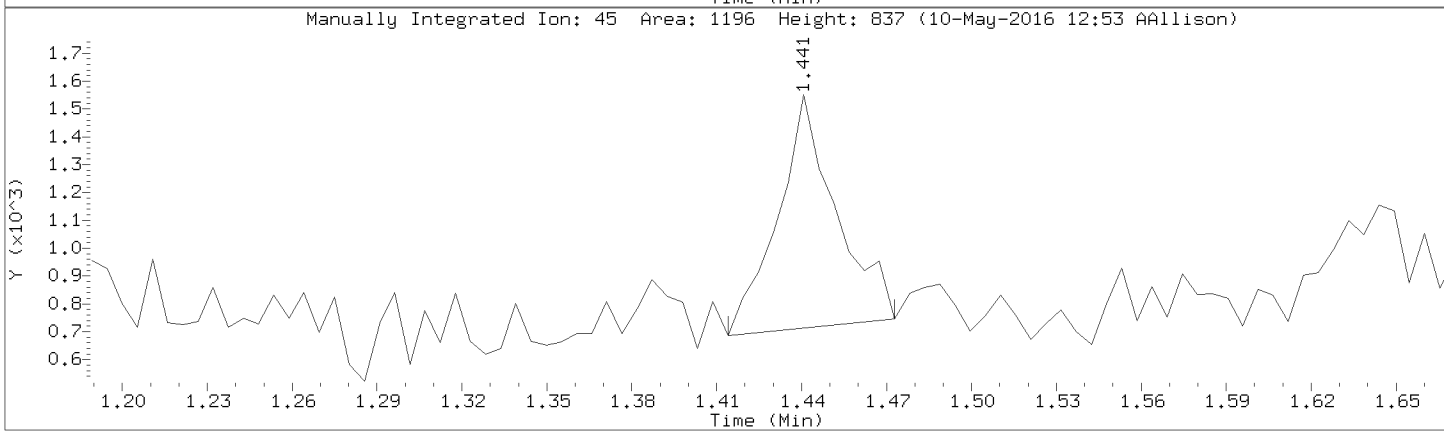
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: Diethyl ether Review Code: GT
CAS Number: 60-29-7

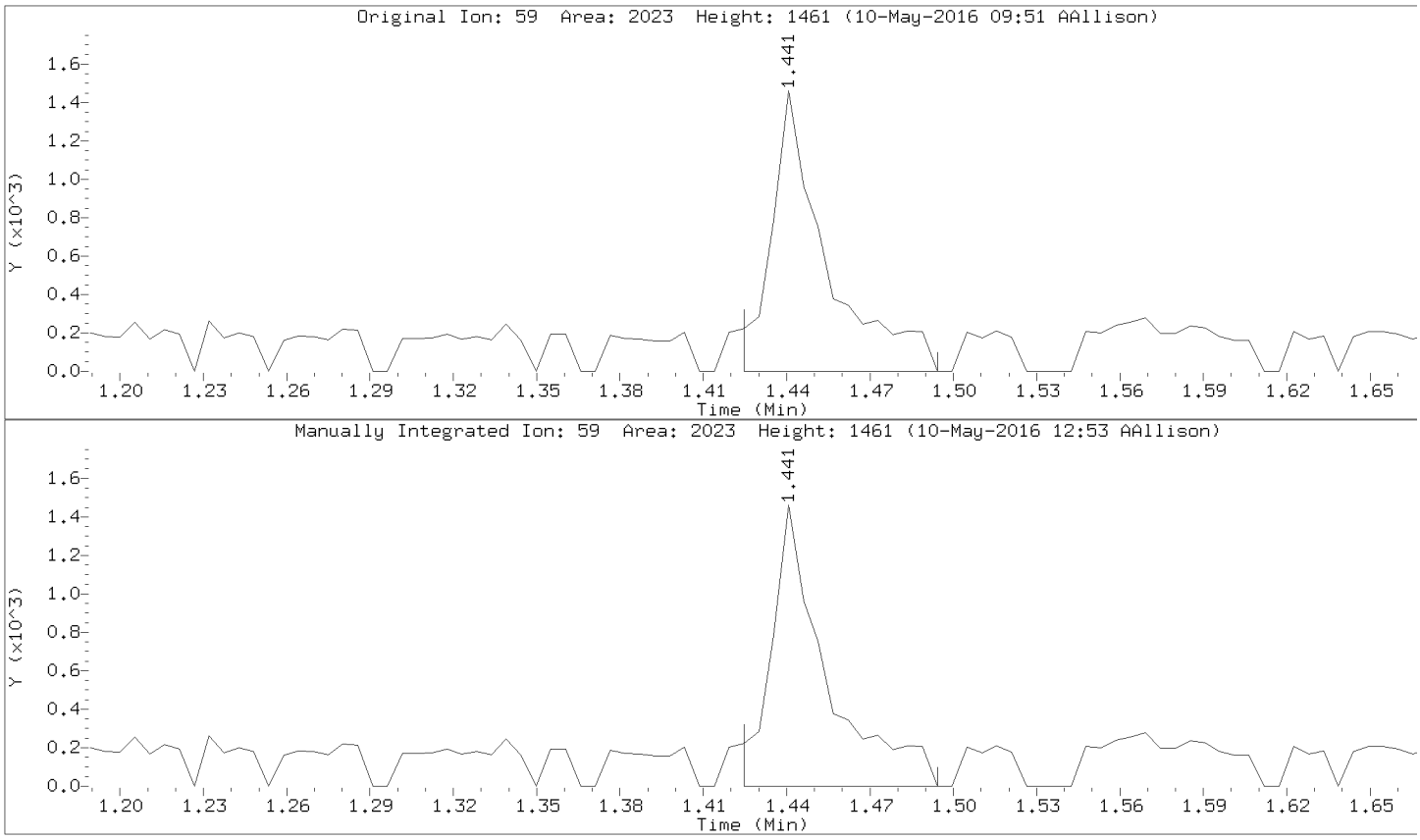






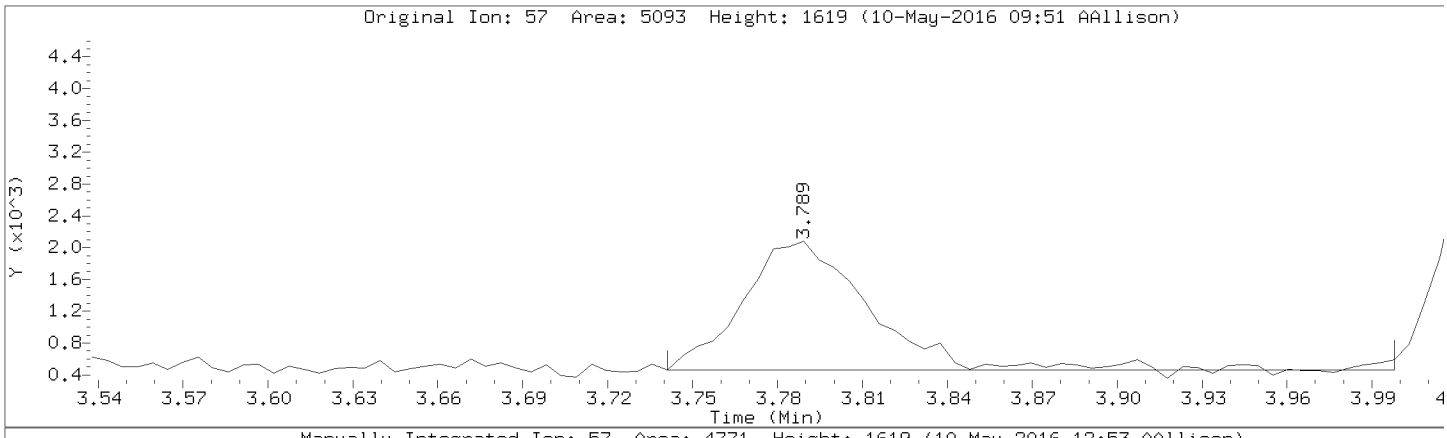


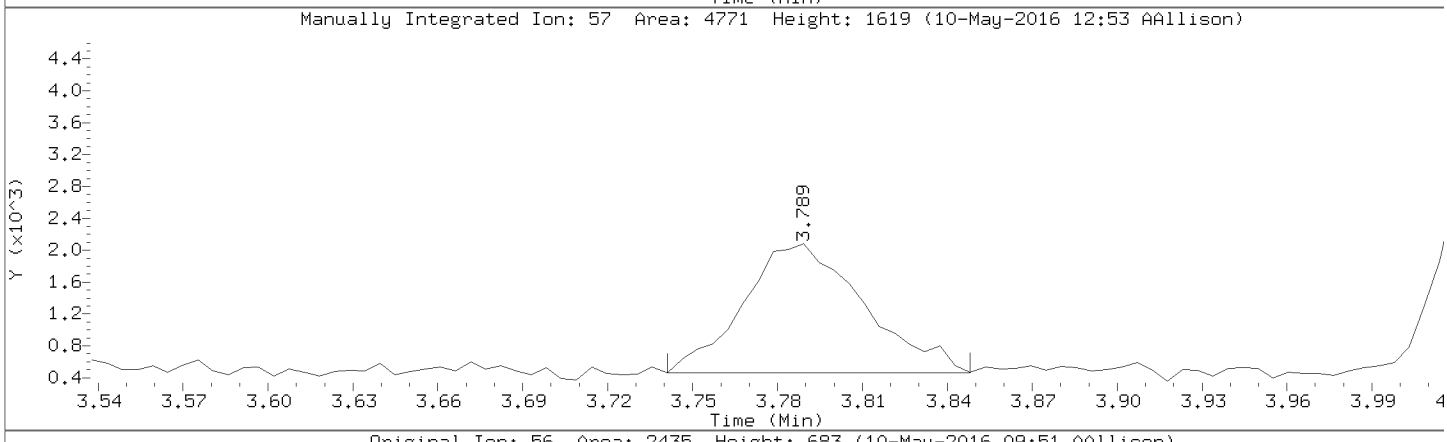
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

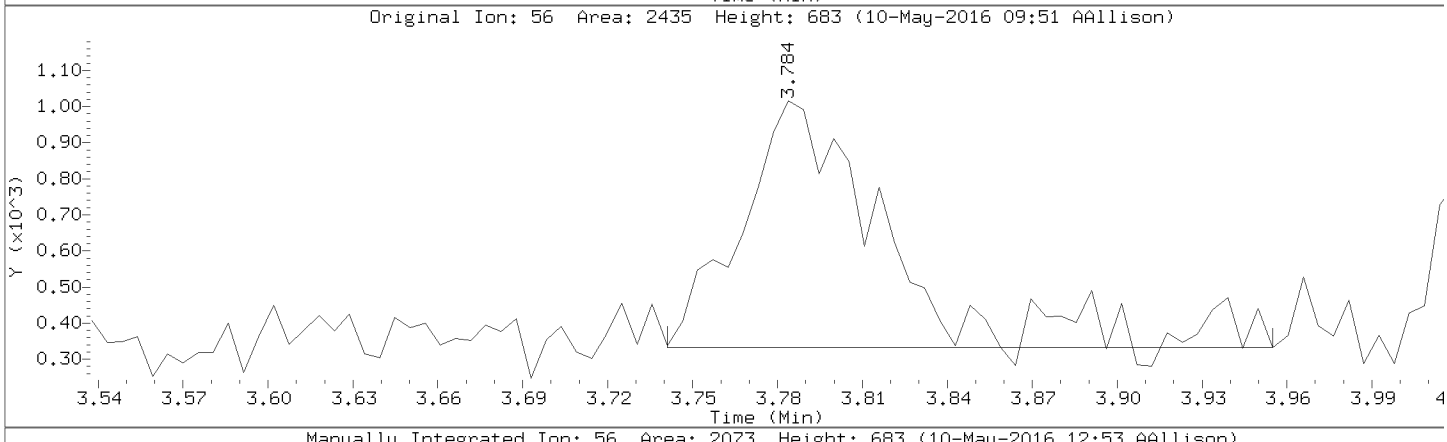


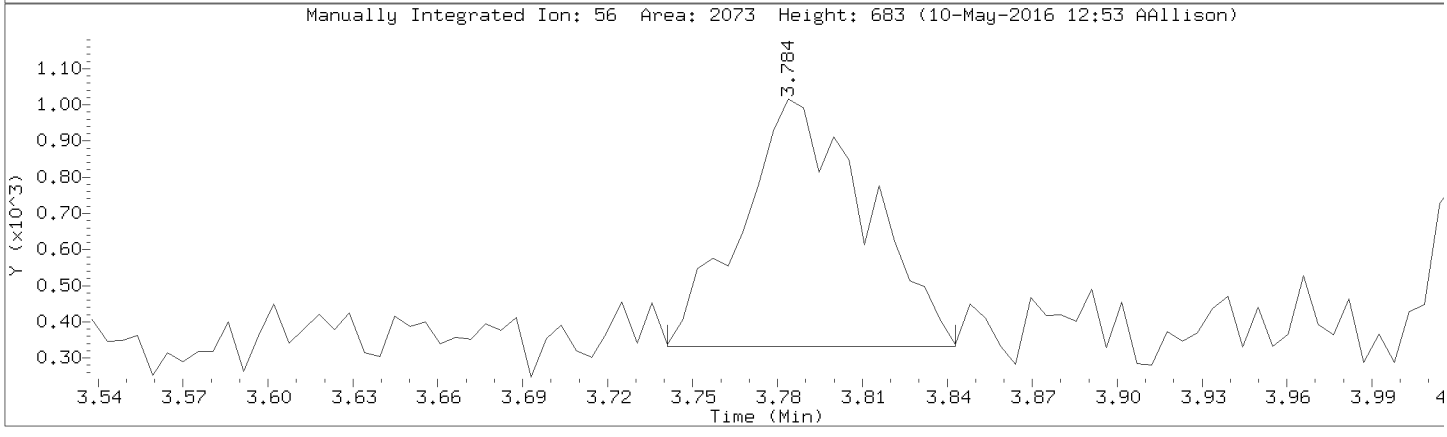
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a01.d
Injection Date: 09-MAY-2016 19:37
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL1

Compound: 2,2,4-Trimethylpentane Review Code: GT
CAS Number: 540-84-1









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a02.d
Lab Smp Id: 8260-CAL2 Client Smp ID: 8260-CAL2
Inj Date : 09-MAY-2016 20:15
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal2,121030:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	5235	2.00000	2.60(M)
2	Chloromethane	50	0.991	0.986	(0.246)	4529	2.00000	3.43(M)
3	Vinyl Chloride	62	1.034	1.034	(0.256)	5318	2.00000	2.14(QM)
4	Bromomethane	94	1.167	1.168	(0.289)	818	2.00000	1.26(QM)
5	Chloroethane	64	1.216	1.210	(0.301)	3175	2.00000	2.44(M)
6	Trichlorofluoromethane	101	1.322	1.317	(0.328)	9952	2.00000	2.88
8	Diethyl ether	74	1.440	1.440	(0.357)	2932	2.00000	2.52(M)
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	6410	2.00000	2.25(M)
9	Acrolein	56	1.515	1.515	(0.376)	11842	40.0000	54.7(M)
10	1,1,2trichlorotrifluoroethane	101	1.558	1.553	(0.386)	5802	2.00000	2.27
11	1,1-Dichloroethene	96	1.563	1.563	(0.388)	4330	2.00000	2.30(M)
12	Acetone	43	1.579	1.585	(0.391)	7322	10.0000	13.4(M)
13	Iodomethane	142	1.649	1.649	(0.409)	2498	4.00000	1.85
14	Carbon Disulfide	76	1.692	1.686	(0.419)	23828	2.00000	4.11(M)
16	Methyl Acetate	43	1.740	1.734	(0.431)	3066	2.00000	2.28(M)
143	Acetonitrile	39	1.745	1.745	(0.433)	10356	2.00000	2.20(M)
15	allyl chloride	41	1.745	1.745	(0.433)	11937	4.00000	3.88(M)
17	Methylene Chloride	84	1.820	1.820	(0.451)	5431	2.00000	2.83(M)
18	tert-Butyl Alcohol	59	1.874	1.873	(0.464)	2116	4.00000	7.94(M)
19	Acrylonitrile	53	1.954	1.954	(0.484)	4585	8.00000	8.65(QM)
20	Methyl-tert-butyl ether	73	1.981	1.981	(0.491)	7566	2.00000	1.68(M)
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.491)	4836	2.00000	2.84(Q)
22	n-Hexane	57	2.152	2.146	(0.533)	3155	2.00000	1.29(M)

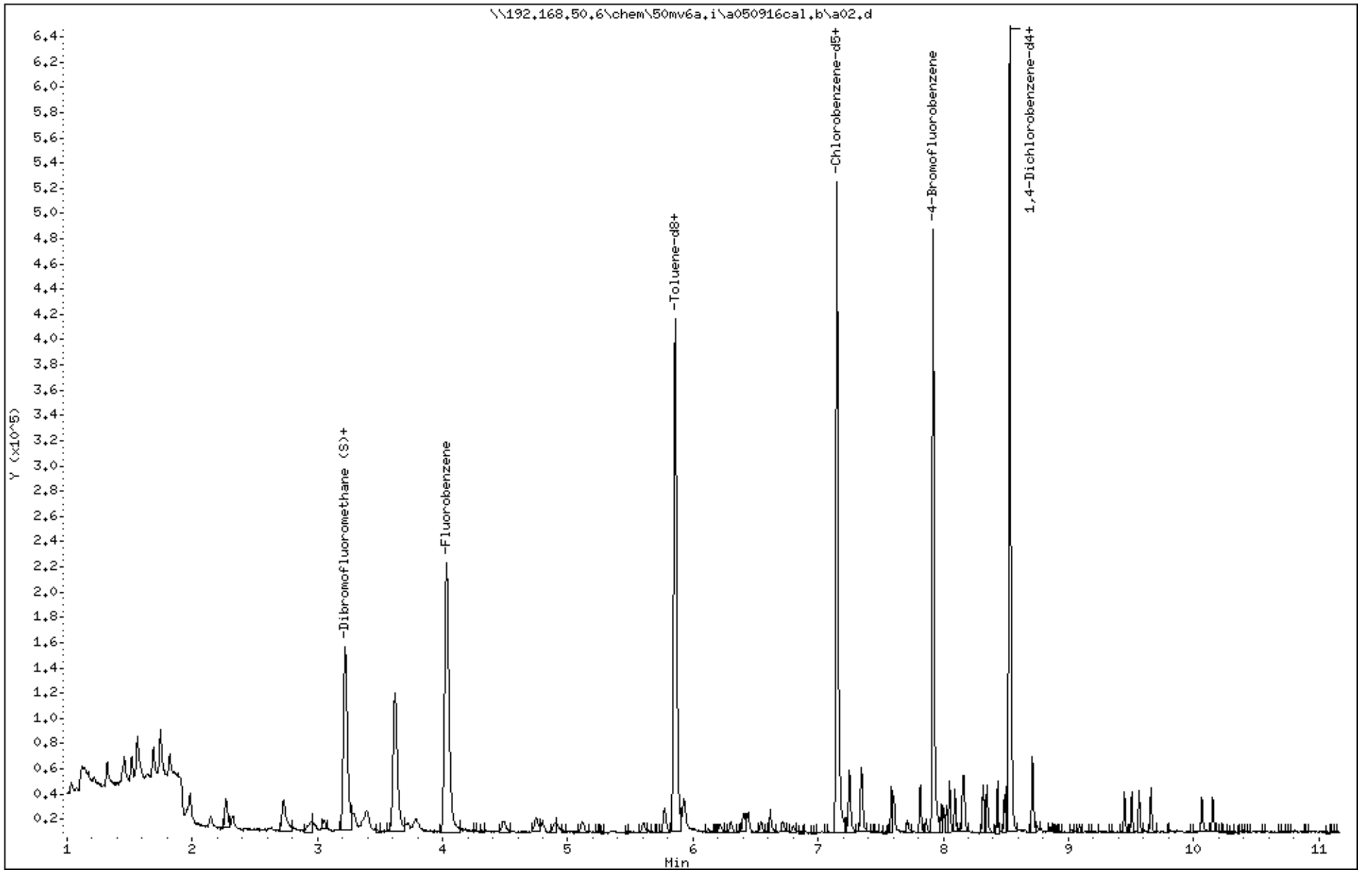
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.269	2.264	(0.563)	22367	8.00000	7.65
	23 1,1-Dichloroethane	63	2.275	2.275	(0.564)	7207	2.00000	2.23(M)
	147 chloroprene	53	2.323	2.323	(0.576)	5195	2.00000	2.19
	28 2-Butanone	43	2.729	2.724	(0.677)	11793	10.0000	15.5(M)
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.675)	4484	2.00000	2.41
	27 2,2-Dichloropropane	77	2.735	2.730	(0.678)	7364	2.00000	2.68(Q)
	149 Propionitrile	54	2.788	2.783	(0.691)	956	2.00000	4.00(QM)
	144 Methacrylonitrile	41	2.922	2.917	(0.724)	1431	2.00000	1.66(QM)
	30 Bromochloromethane	49	2.949	2.949	(0.731)	2789	2.00000	2.44
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	1954	2.00000	3.74(QM)
	32 Chloroform	83	3.056	3.056	(0.757)	6914	2.00000	2.12(M)
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	93251	50.0000	53.0
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.797)	7616	2.00000	2.50
	35 Cyclohexane	56	3.291	3.291	(0.816)	5708	2.00000	2.18(M)
	150 n-Butyl chloride	56	3.361	3.355	(0.833)	6258	2.00000	1.99
	36 Carbon Tetrachloride	117	3.382	3.393	(0.838)	5822	2.00000	2.10
	37 1,1-Dichloropropene	75	3.393	3.393	(0.841)	4446	2.00000	1.81
	39 Benzene	78	3.628	3.628	(0.899)	12037	2.00000	1.95
	40 1,2-Dichloroethane	62	3.725	3.714	(0.923)	4797	2.00000	2.26
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.939)	10876	2.00000	1.86(M)
	38 Isobutyl alcohol	43	3.789	3.783	(0.939)	2243	2.00000	1.97(M)
*	41 Fluorobenzene	96	4.035	4.035	(1.000)	251590	50.0000	
	42 Trichloroethene	95	4.490	4.490	(1.113)	3817	2.00000	2.14
	43 Methylcyclohexane	55	4.741	4.741	(1.175)	3796	2.00000	1.82(M)
	44 1,2-Dichloropropane	63	4.800	4.794	(1.190)	3076	2.00000	1.88(M)
	45 Dibromomethane	93	4.891	4.896	(1.212)	2575	2.00000	2.28
	142 1,4-Dioxane	88	4.918	4.907	(1.219)	426	40.0000	21.1(QM)
	46 Methyl methacrylate	69	4.923	4.912	(1.220)	1343	2.00000	1.27(M)
	47 Bromodichloromethane	83	5.115	5.115	(1.268)	4599	2.00000	1.86(M)
	49 cis-1,3-Dichloropropene	75	5.602	5.602	(0.783)	4457	2.00000	1.45
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	13532	10.0000	7.97(M)
$	51 Toluene-d8	98	5.859	5.859	(0.819)	259390	50.0000	49.6
	52 Toluene	91	5.929	5.929	(0.829)	15789	2.00000	2.12
	53 trans-1,3-Dichloropropene	75	6.217	6.223	(0.869)	3782	2.00000	1.36
	54 Ethyl Methacrylate	69	6.303	6.298	(0.881)	3510	2.00000	1.69(M)
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	2170	2.00000	1.53(Q)
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	3547	2.00000	1.56
	57 1,3-Dichloropropane	76	6.544	6.544	(0.915)	3974	2.00000	1.51
	58 2-Hexanone	43	6.619	6.613	(0.925)	9599	10.0000	8.06(M)
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	3603	2.00000	1.67
	60 1,2-Dibromoethane	107	6.806	6.806	(0.951)	2714	2.00000	1.58
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	200661	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	8994	2.00000	1.86
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	2780	2.00000	1.40(Q)
	64 Ethylbenzene	106	7.255	7.255	(1.014)	4847	2.00000	1.98(Q)
	65 m&p-Xylene	106	7.346	7.346	(1.027)	12310	4.00000	4.24
	67 o-Xylene	106	7.587	7.592	(1.061)	6058	2.00000	2.11
	68 Styrene	104	7.608	7.608	(1.064)	10022	2.00000	2.00
	69 Bromoform	173	7.715	7.710	(0.904)	2663	2.00000	1.62(M)
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	15726	2.00000	2.03
$	72 4-Bromofluorobenzene	95	7.913	7.919	(1.106)	99918	50.0000	53.1
	74 Bromobenzene	77	7.983	7.983	(1.116)	6231	2.00000	2.23
	73 1,1,2,2-Tetrachloroethane	83	8.010	8.004	(0.939)	3220	2.00000	1.49(M)
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	1422	2.00000	2.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	1128	2.00000	1.94(Q)
76	n-Propylbenzene	91	8.052	8.052	(0.944)	17030	2.00000	1.93
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	10177	2.00000	1.96
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	10735	2.00000	1.82
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	3830	2.00000	1.97
80	tert-Butylbenzene	119	8.315	8.315	(0.974)	12038	2.00000	1.82(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	10987	2.00000	1.85
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	14590	2.00000	1.77
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	7259	2.00000	2.03
84	p-Isopropyltoluene	119	8.513	8.513	(0.997)	12173	2.00000	1.83
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	106704	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	7444	2.00000	1.97
87	n-Butylbenzene	91	8.710	8.710	(1.021)	13736	2.00000	2.24
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	6399	2.00000	1.85
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	801	2.00000	1.97
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	5232	2.00000	2.09
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	3096	2.00000	2.06
92	Naphthalene	128	9.566	9.566	(1.121)	14988	2.00000	1.98
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	5198	2.00000	2.10
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	8626	2.00000	2.31
148	1-Methylnaphthalene	141	10.150	10.155	(1.189)	7492	2.00000	2.34

QC Flag Legend

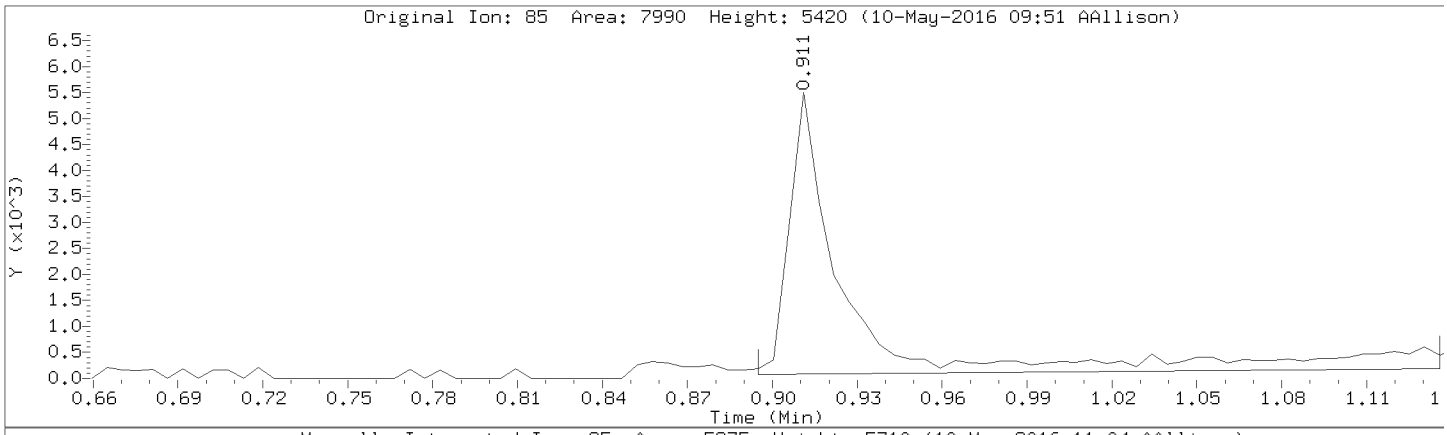
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

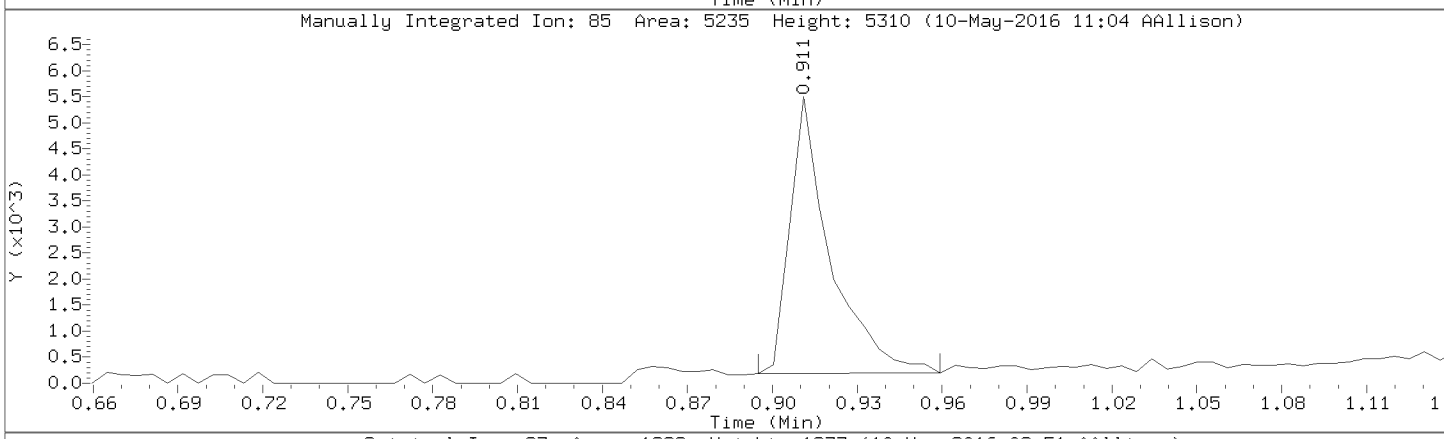
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a02.d
Date : 09-MAY-2016 20:15
Client ID: 8260-CAL2
Instrument: 50mv6a.i
Sample Info: 8260-CAL2,121030:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

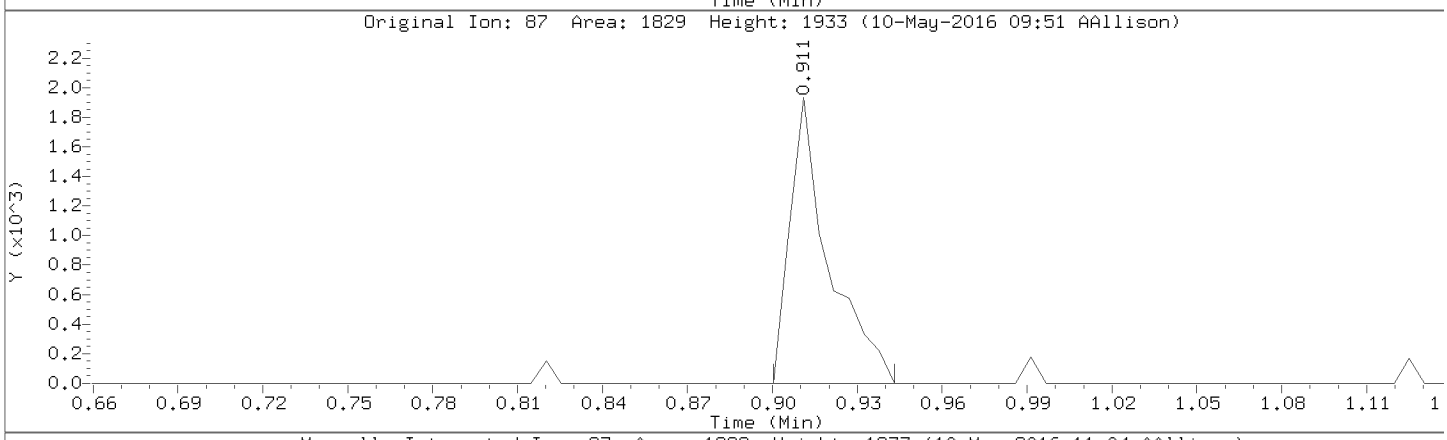


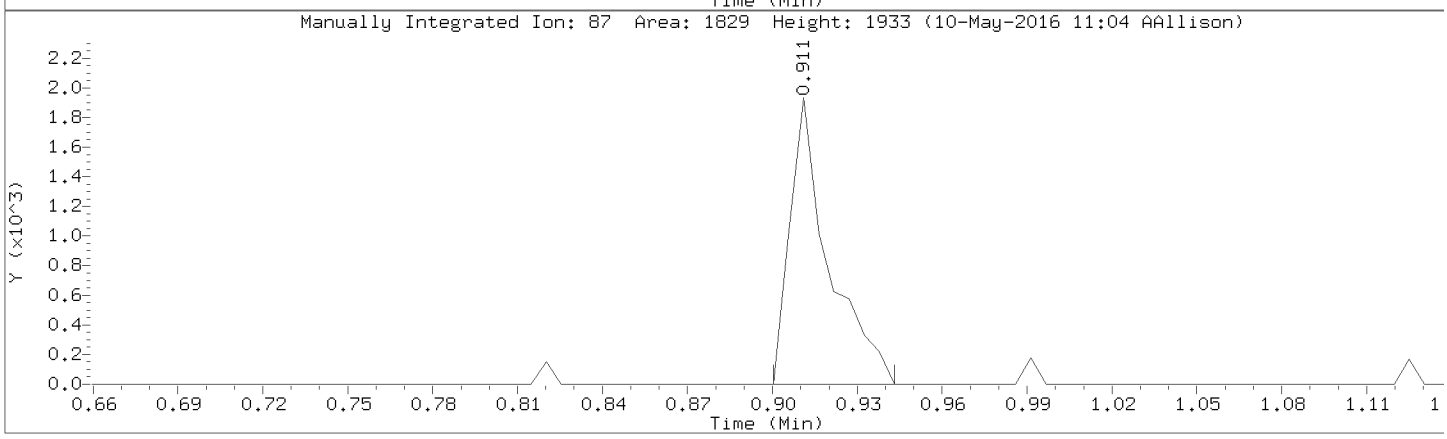
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Dichlorodifluoromethane Review Code: GT
CAS Number: 75-71-8

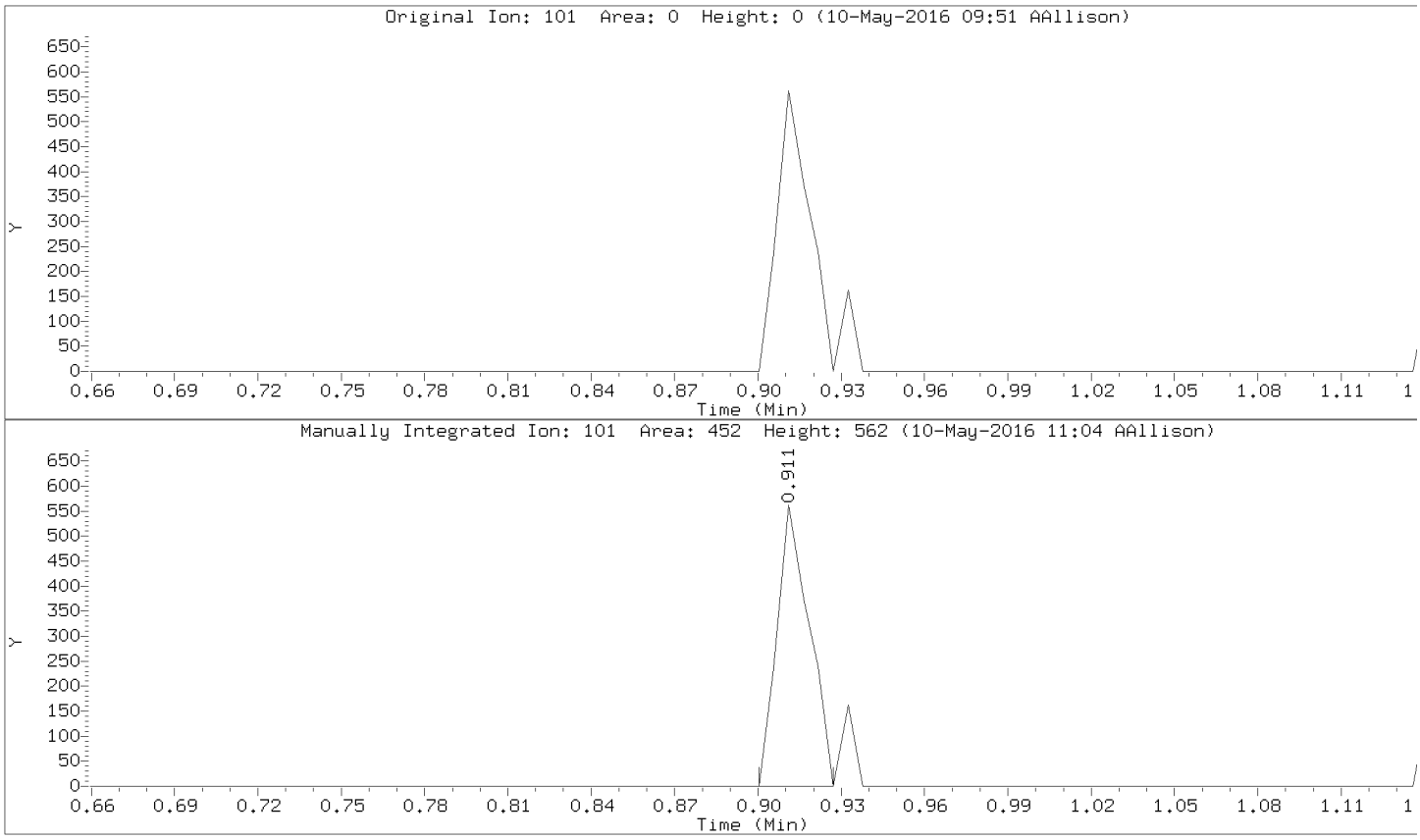






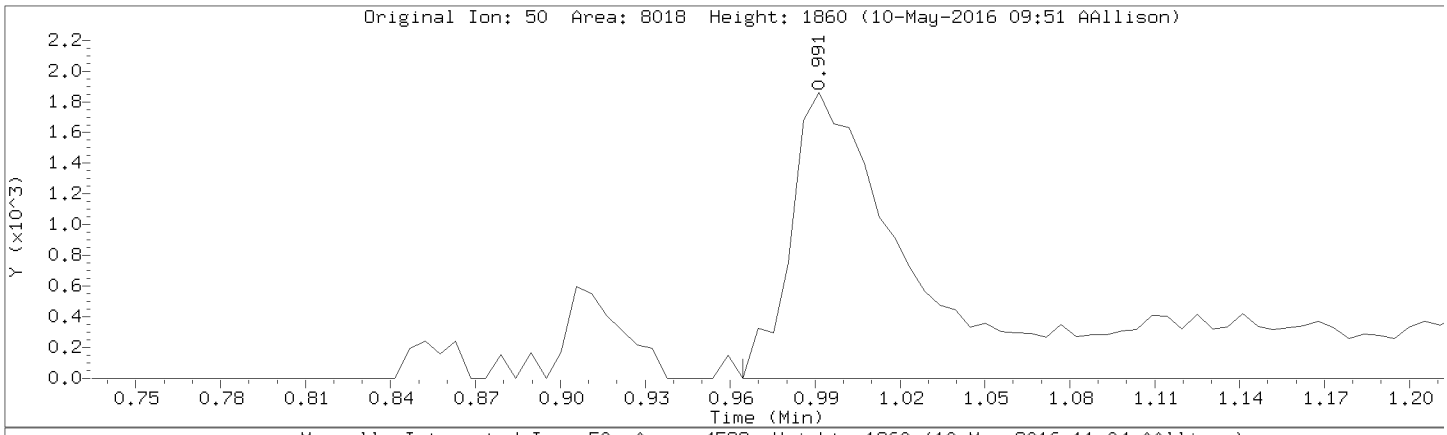


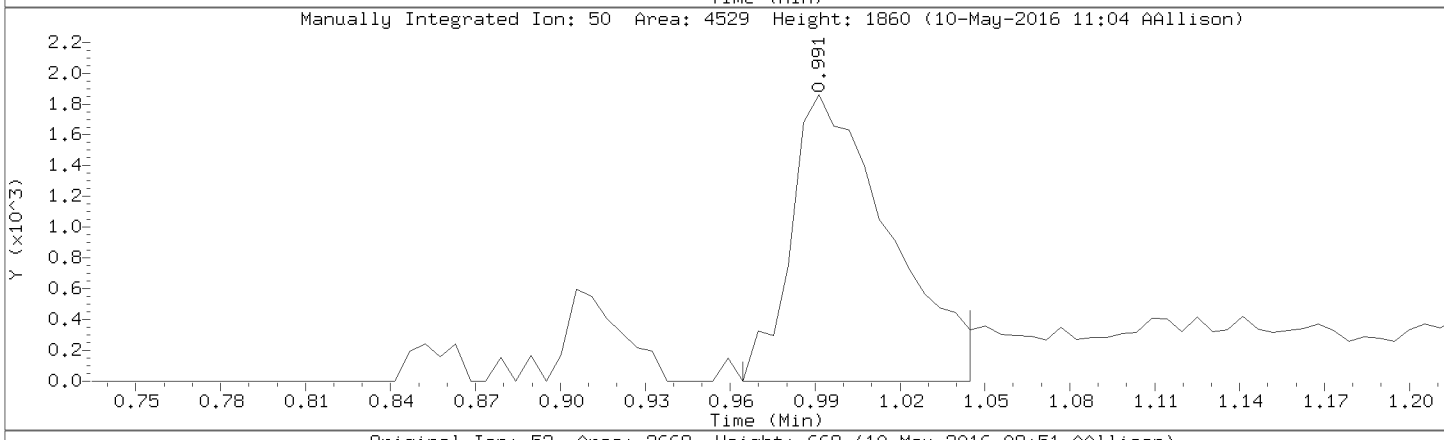
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

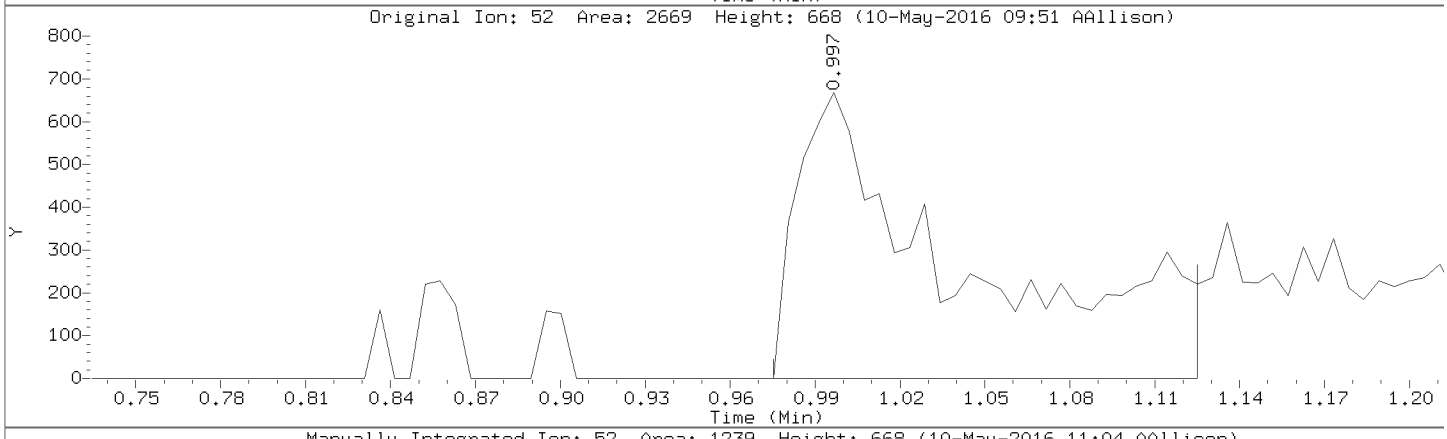


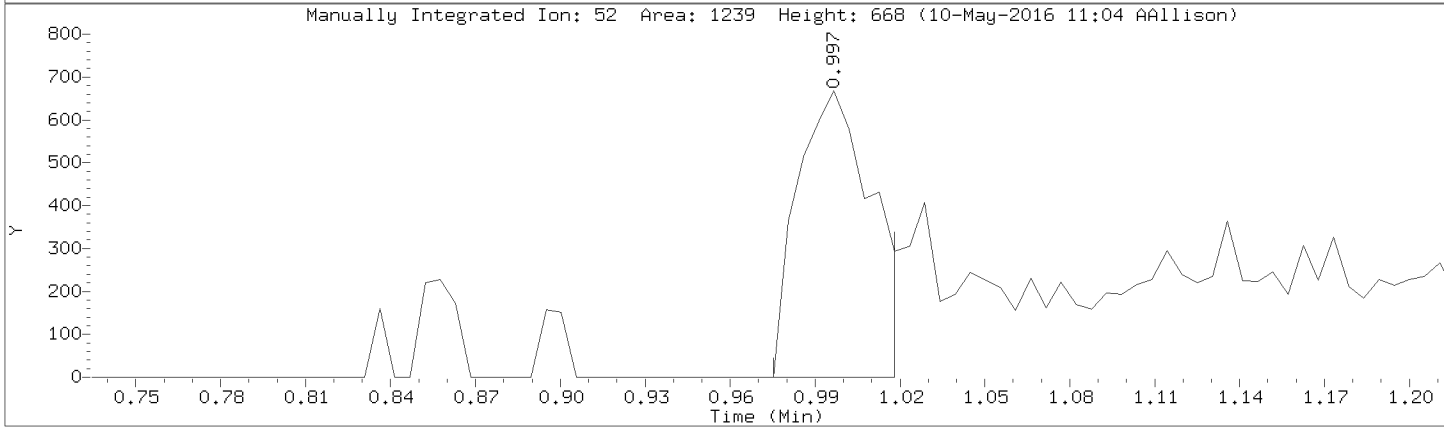
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Chloromethane Review Code: GT
CAS Number: 74-87-3



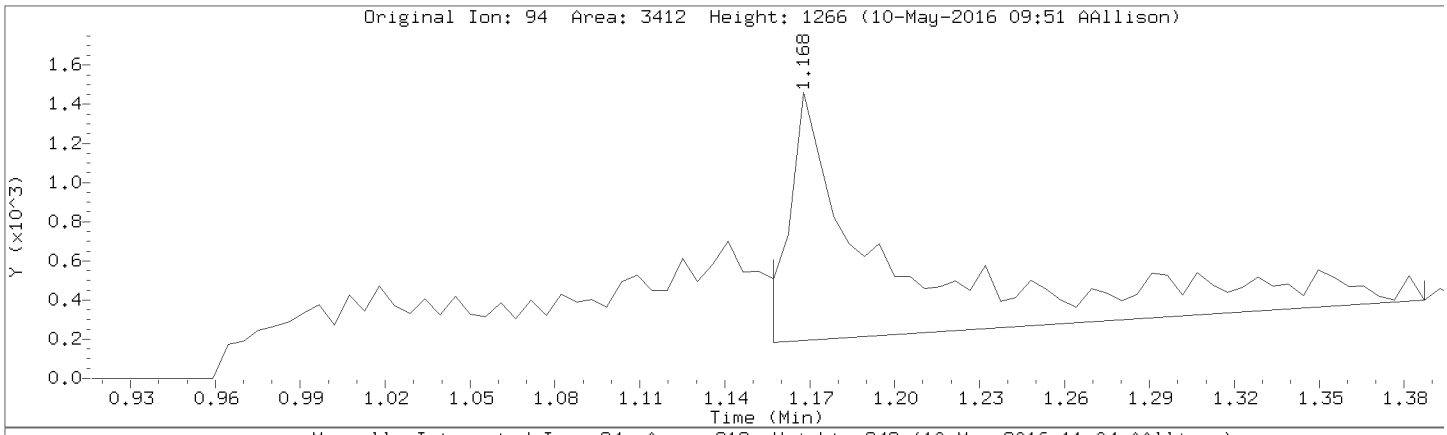


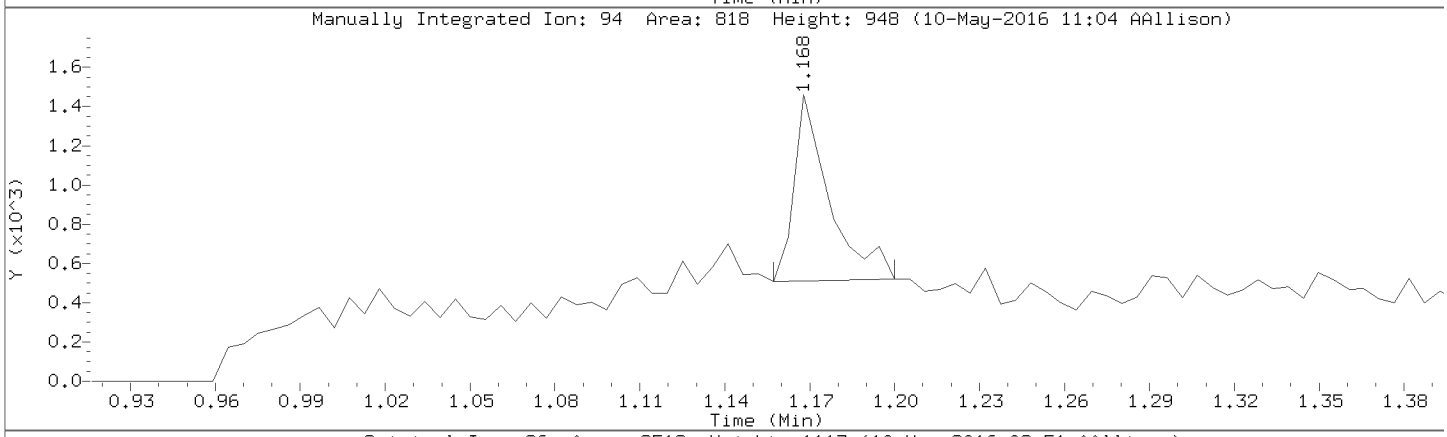


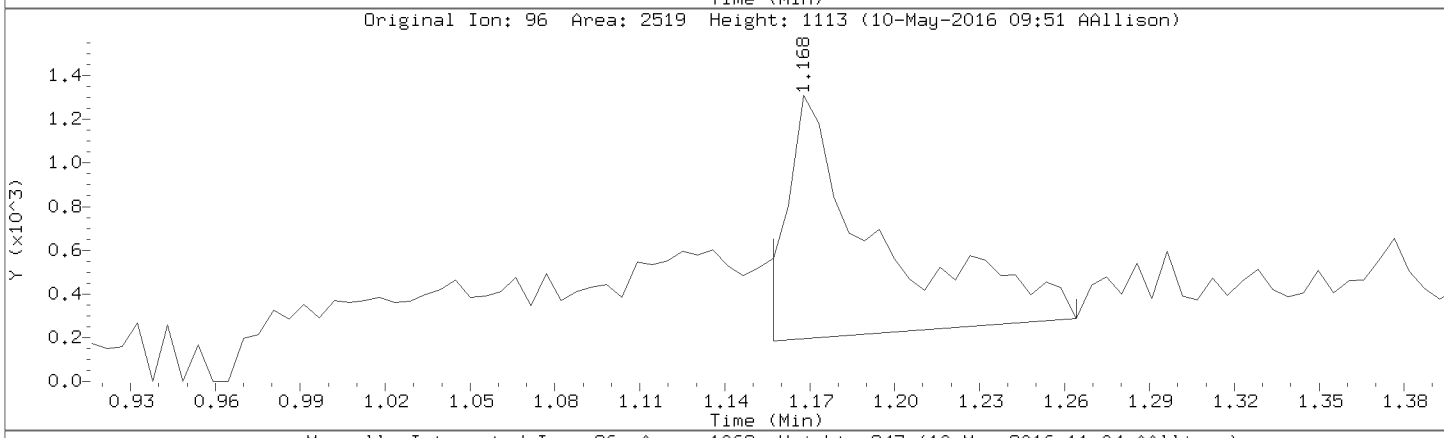


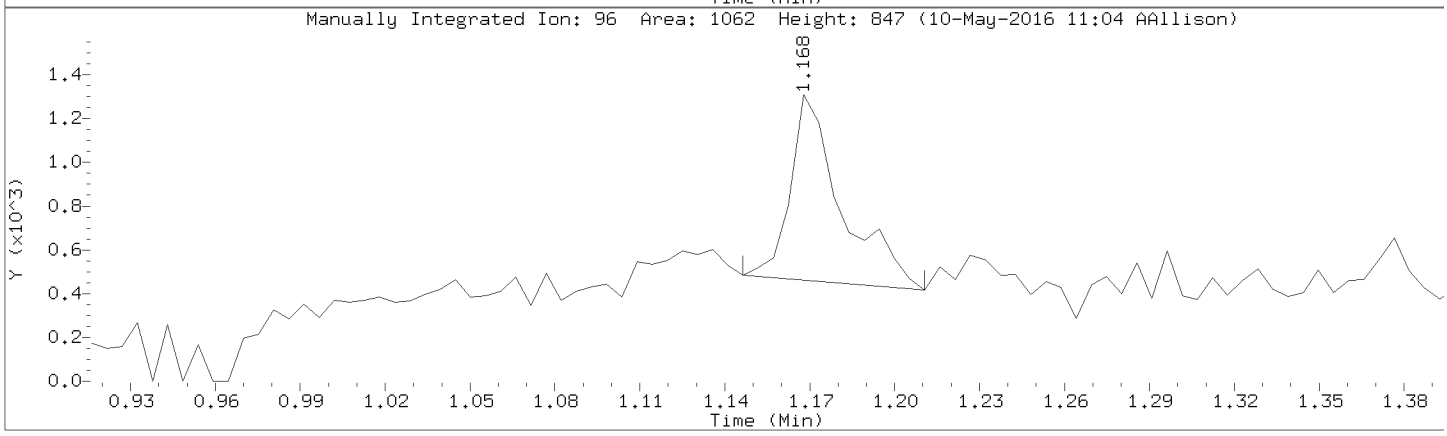
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



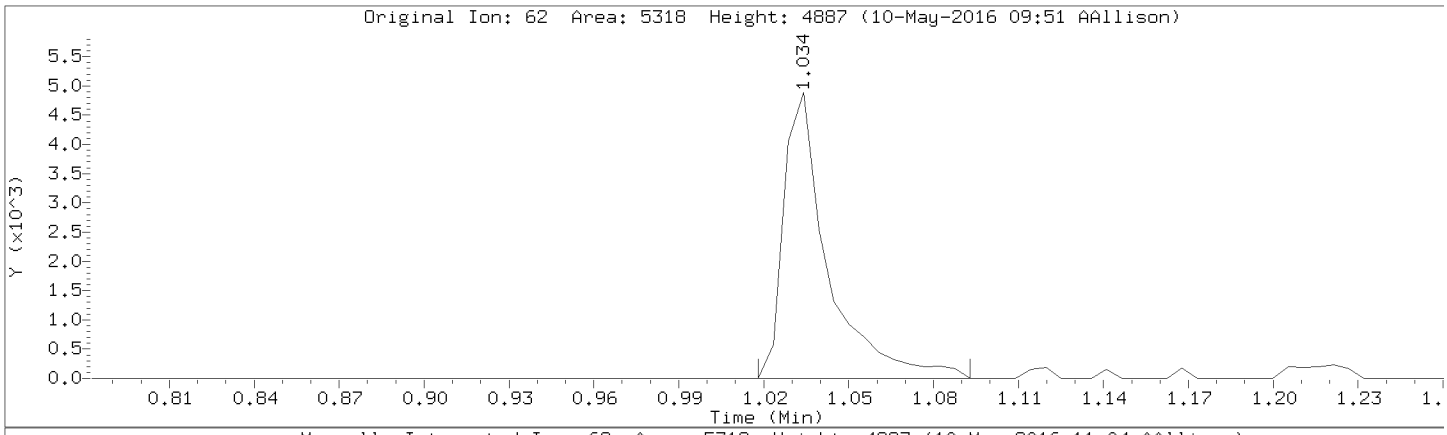


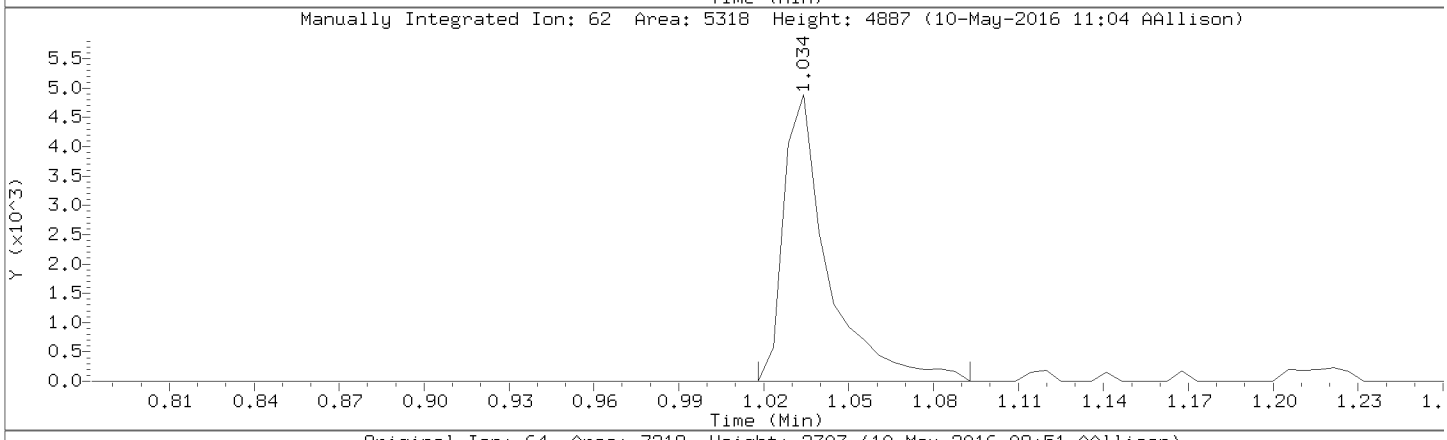


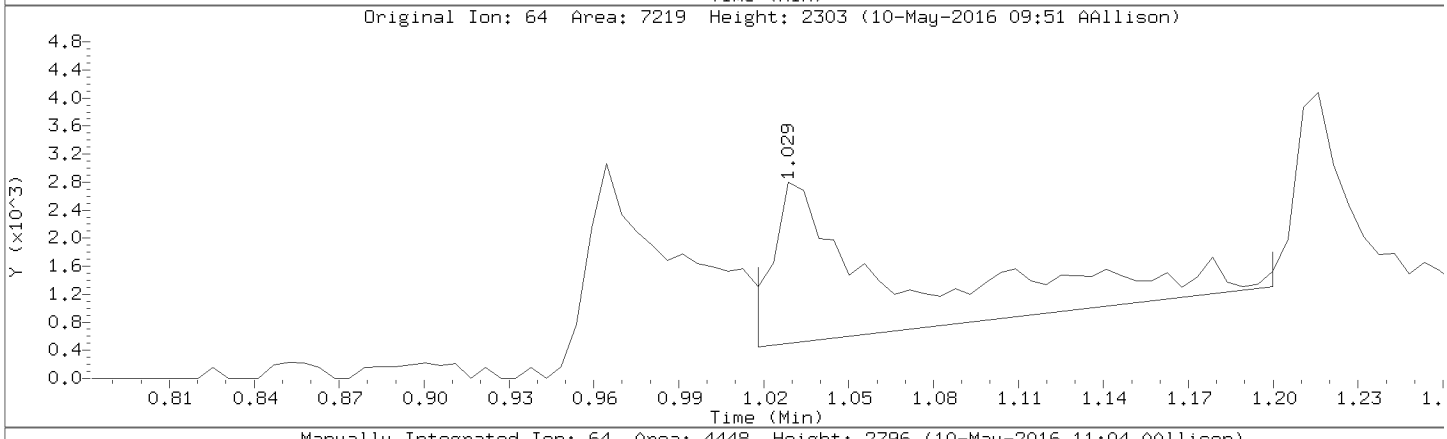


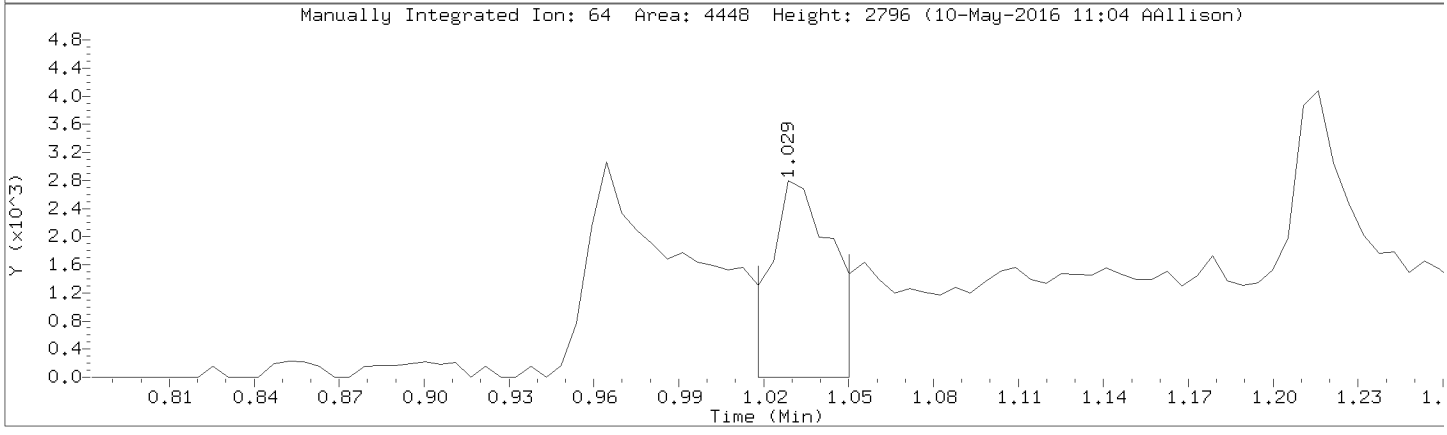
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Vinyl Chloride Review Code:
CAS Number: 75-01-4



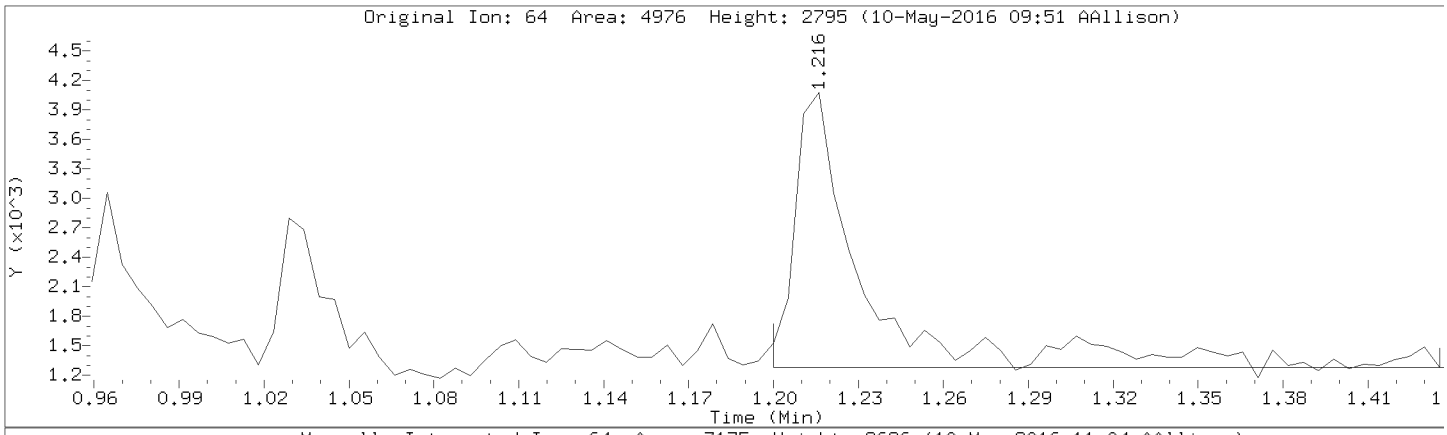


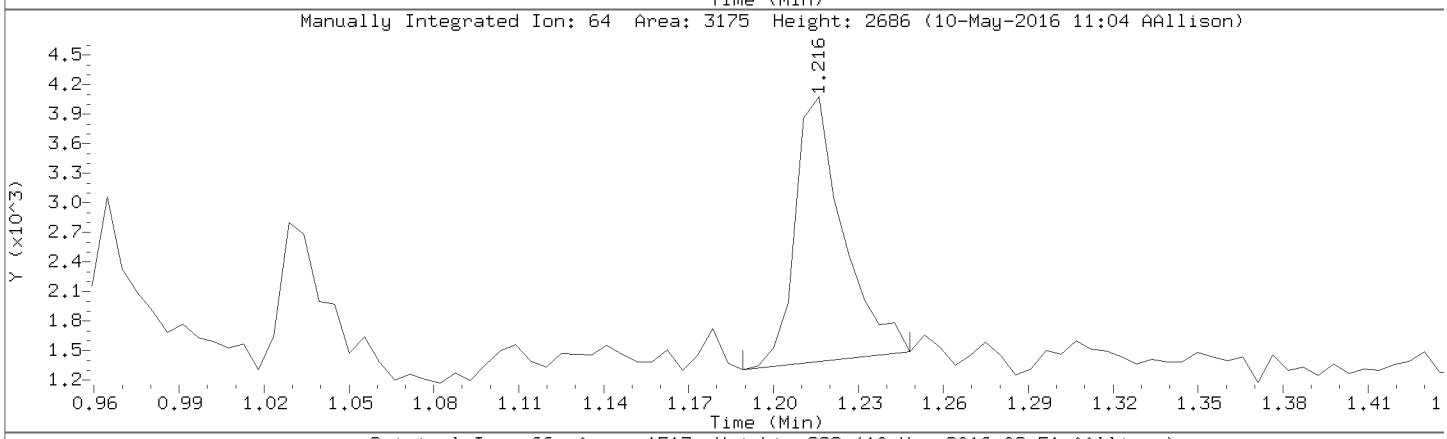


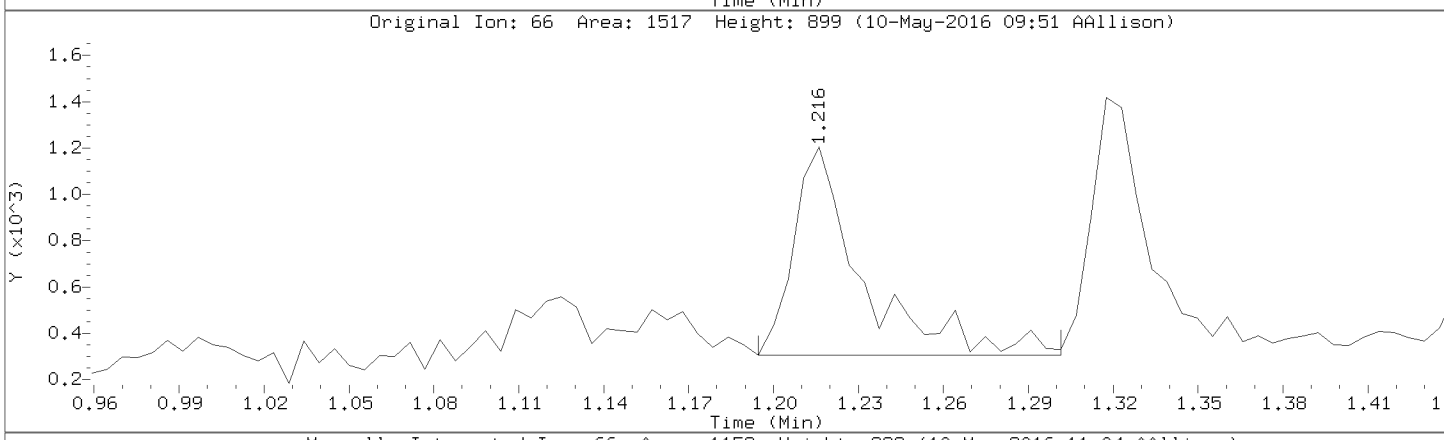


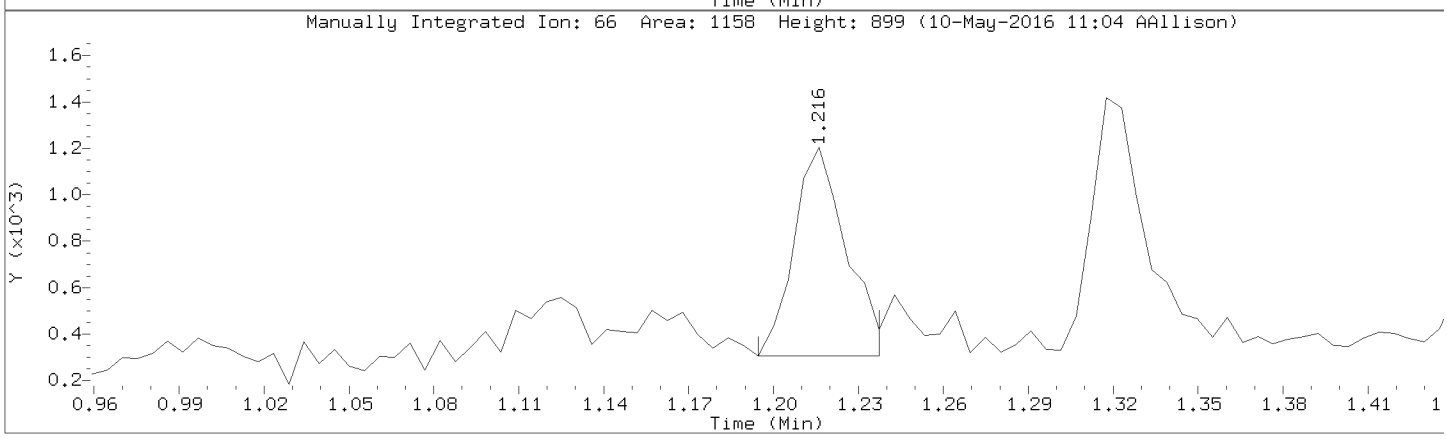
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3



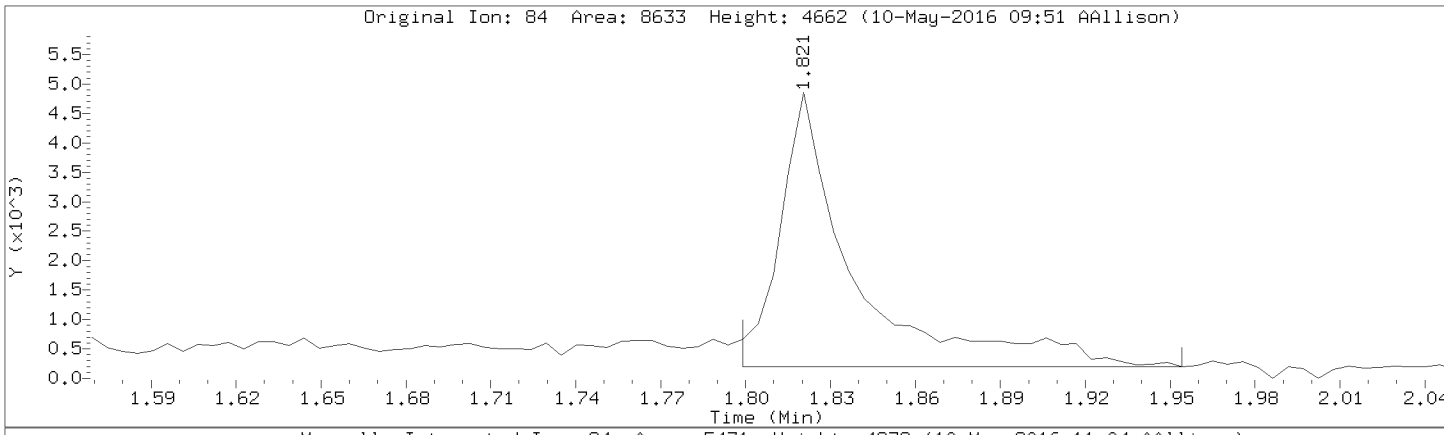


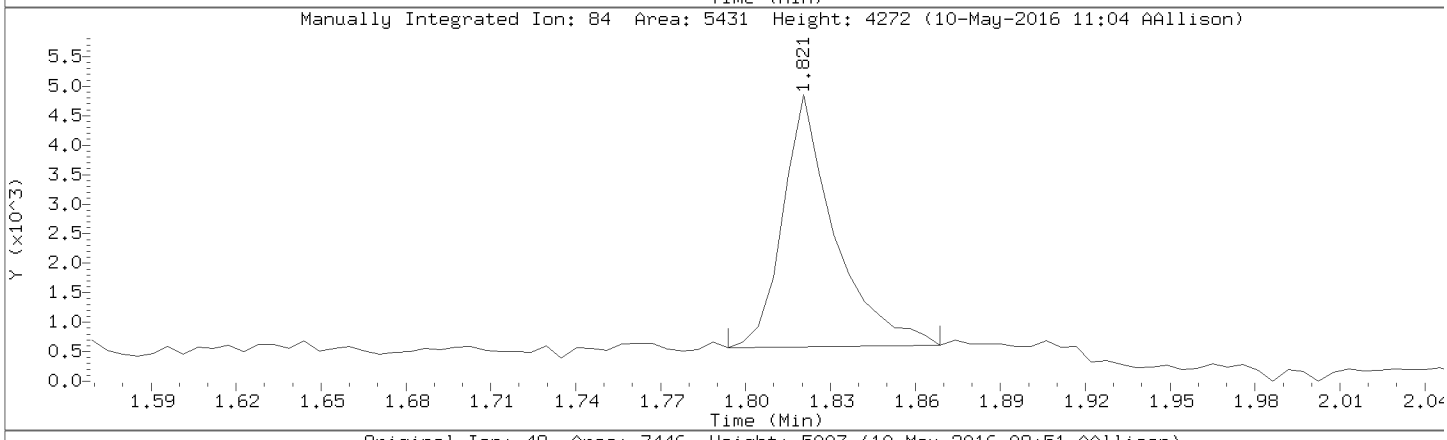


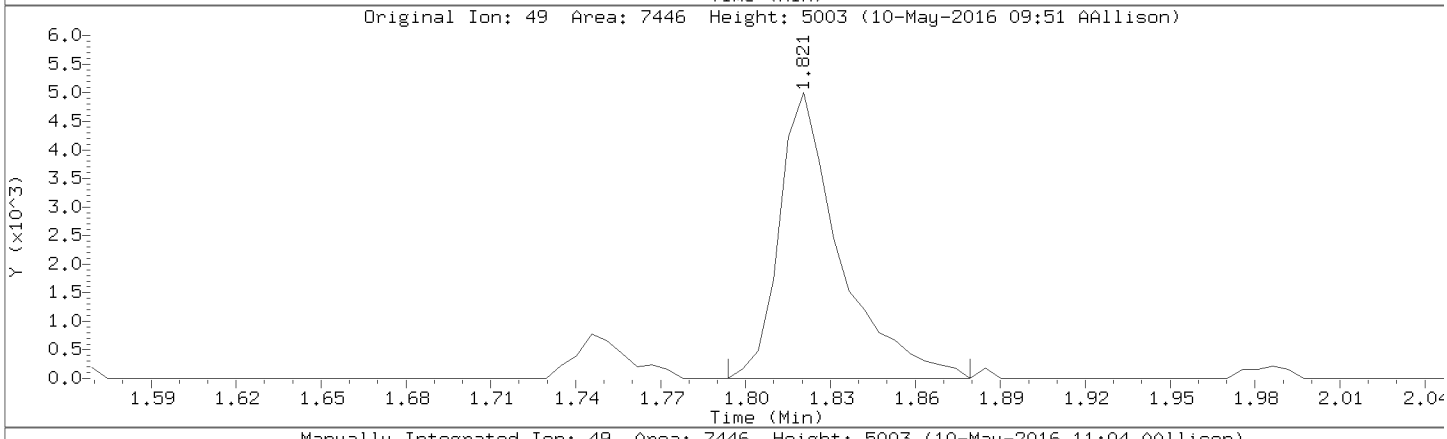


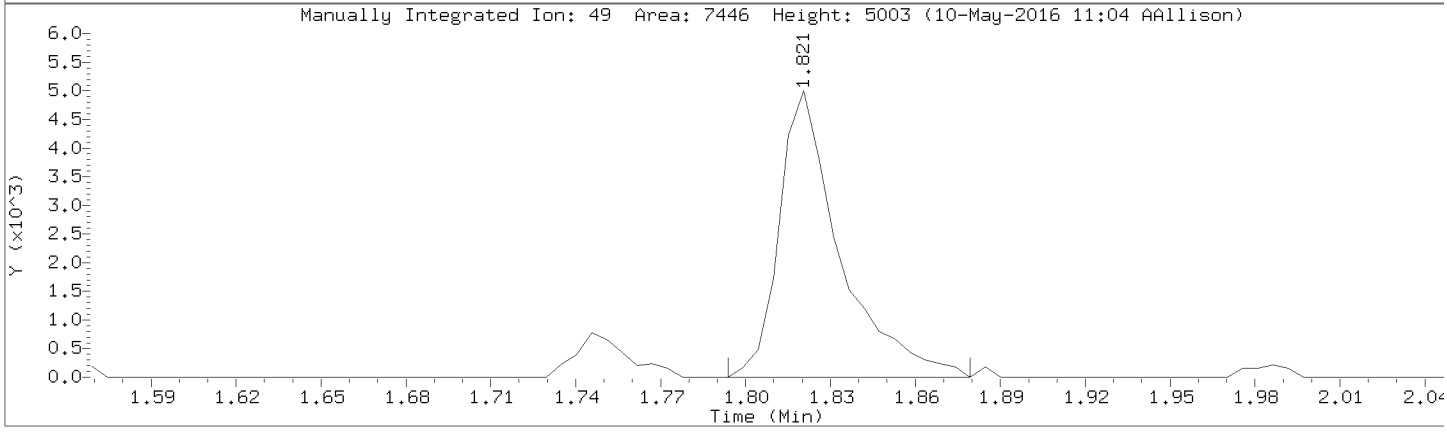
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methylene Chloride Review Code: GT
CAS Number: 75-09-2

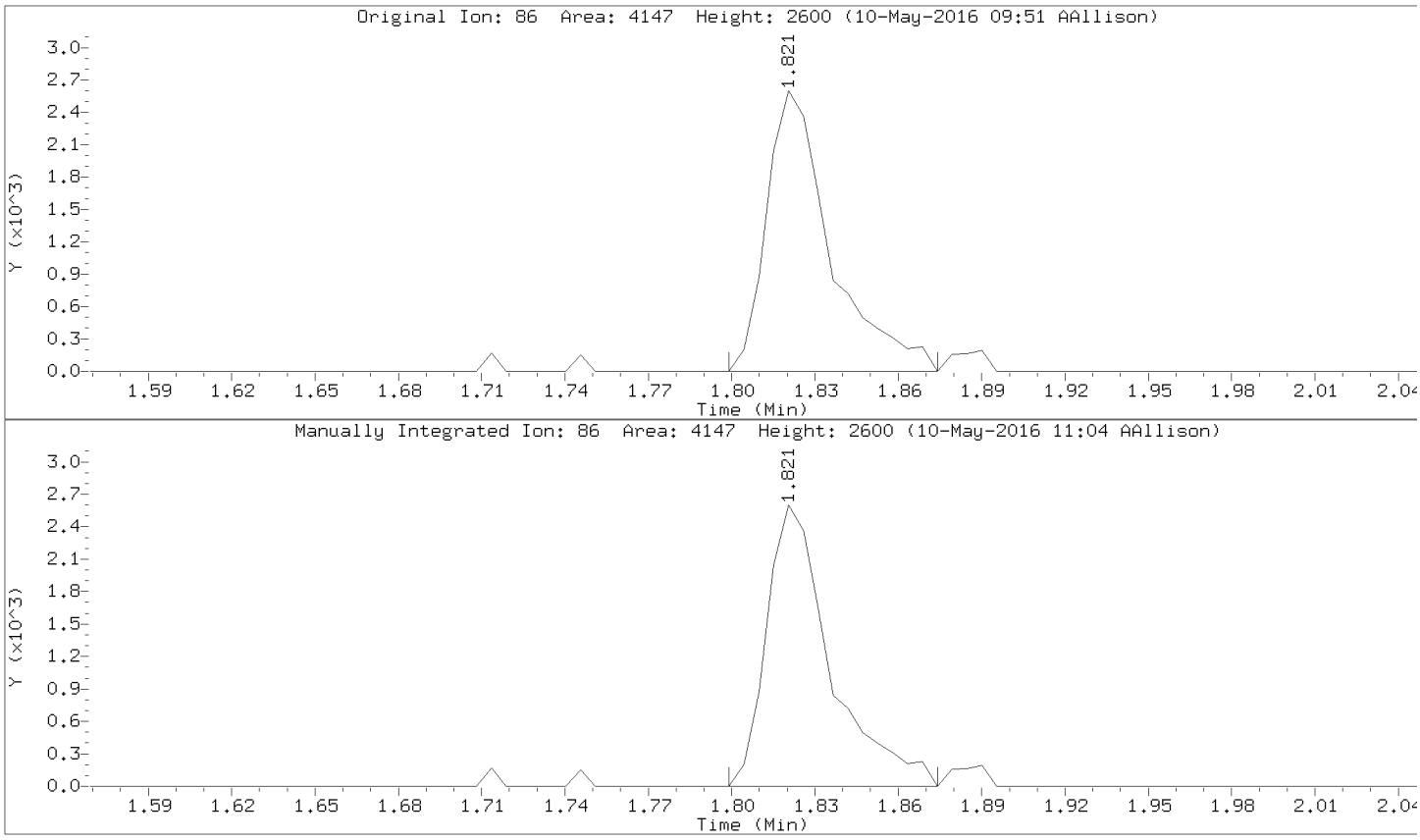






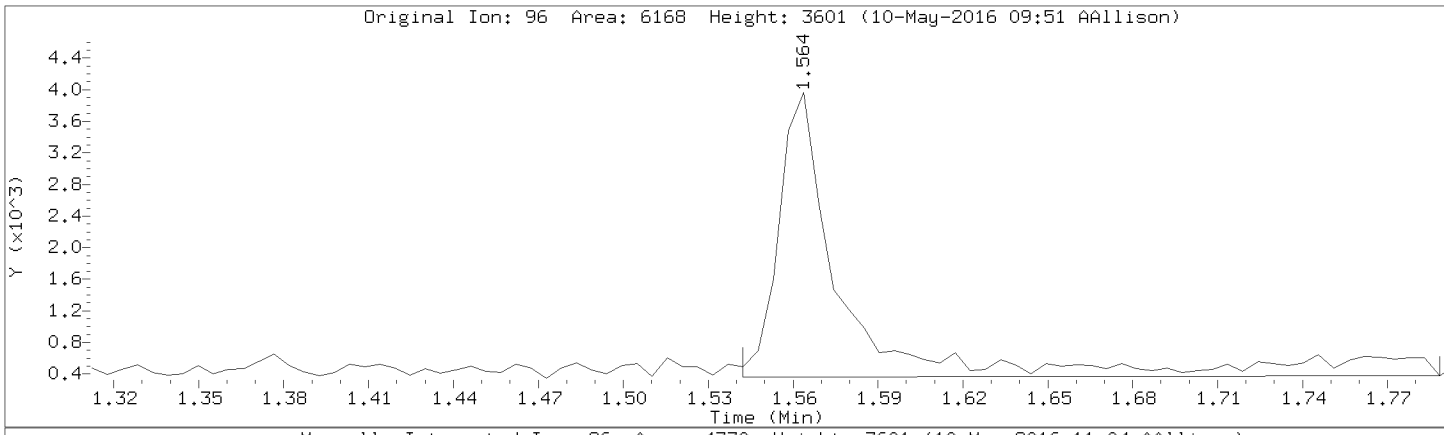


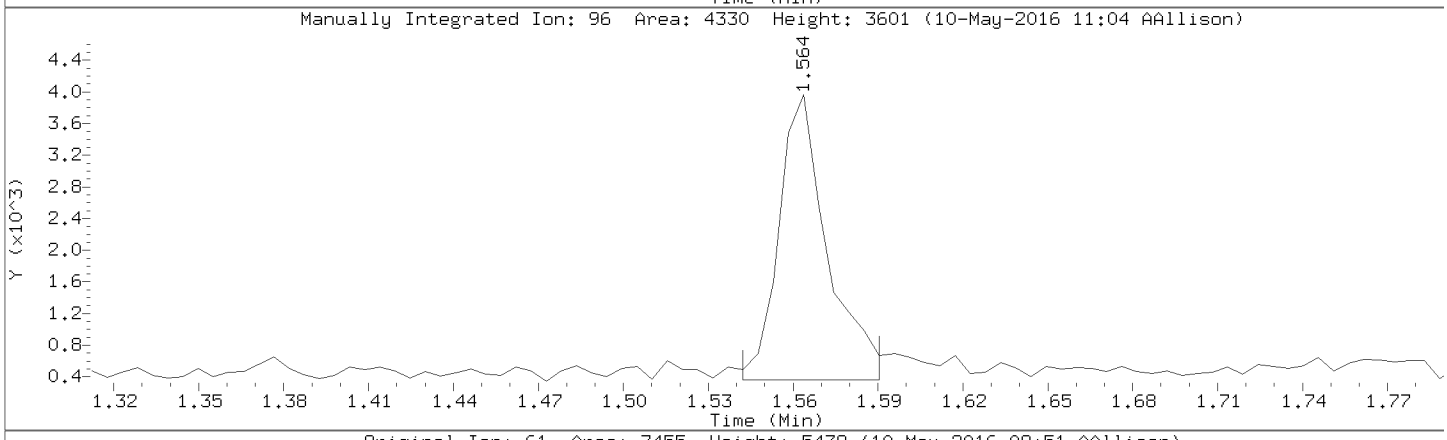
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

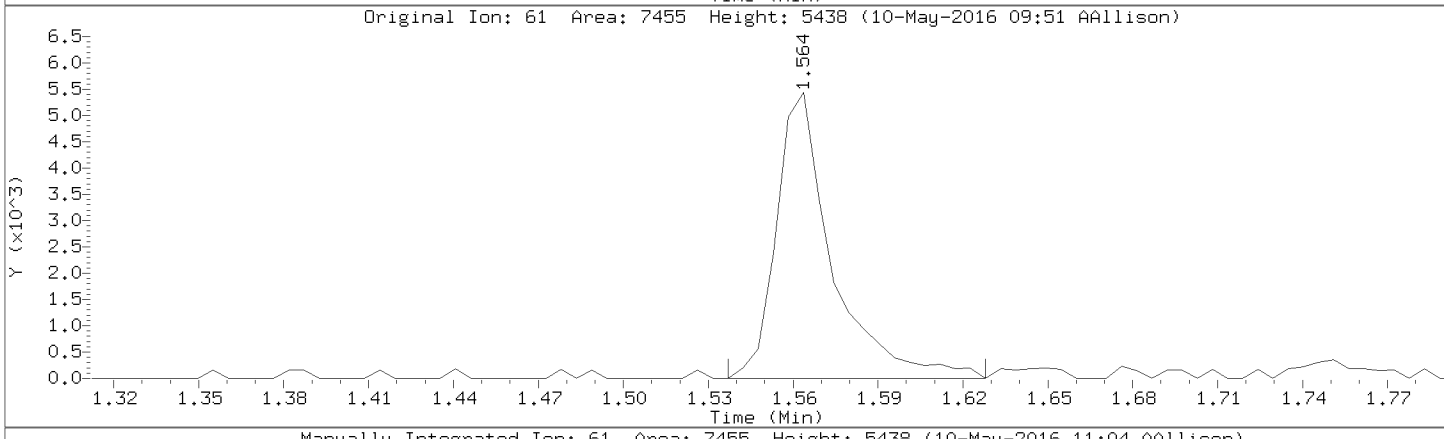


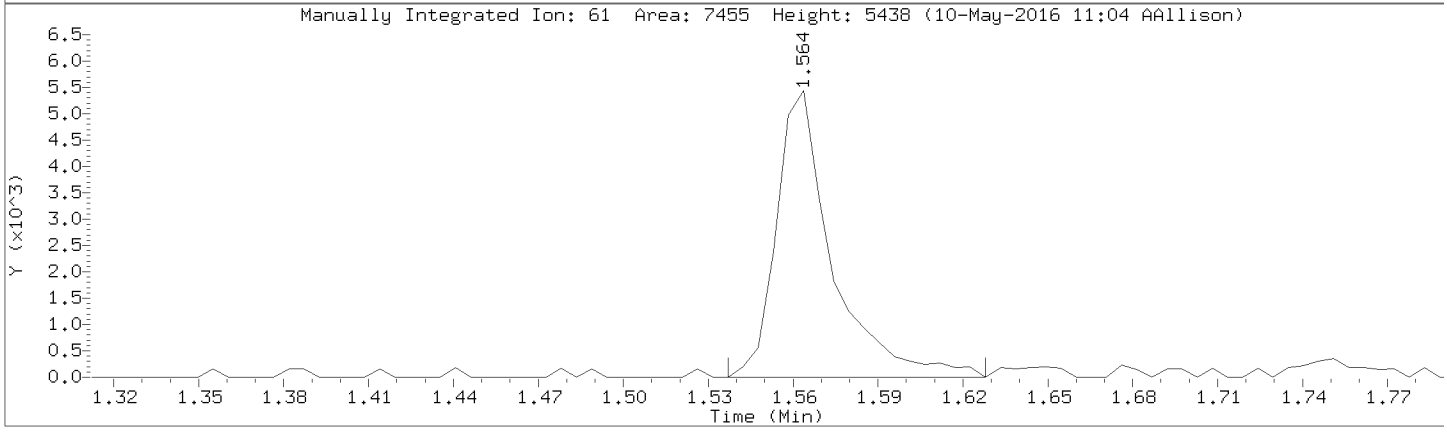
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethene Review Code: GT
CAS Number: 75-35-4

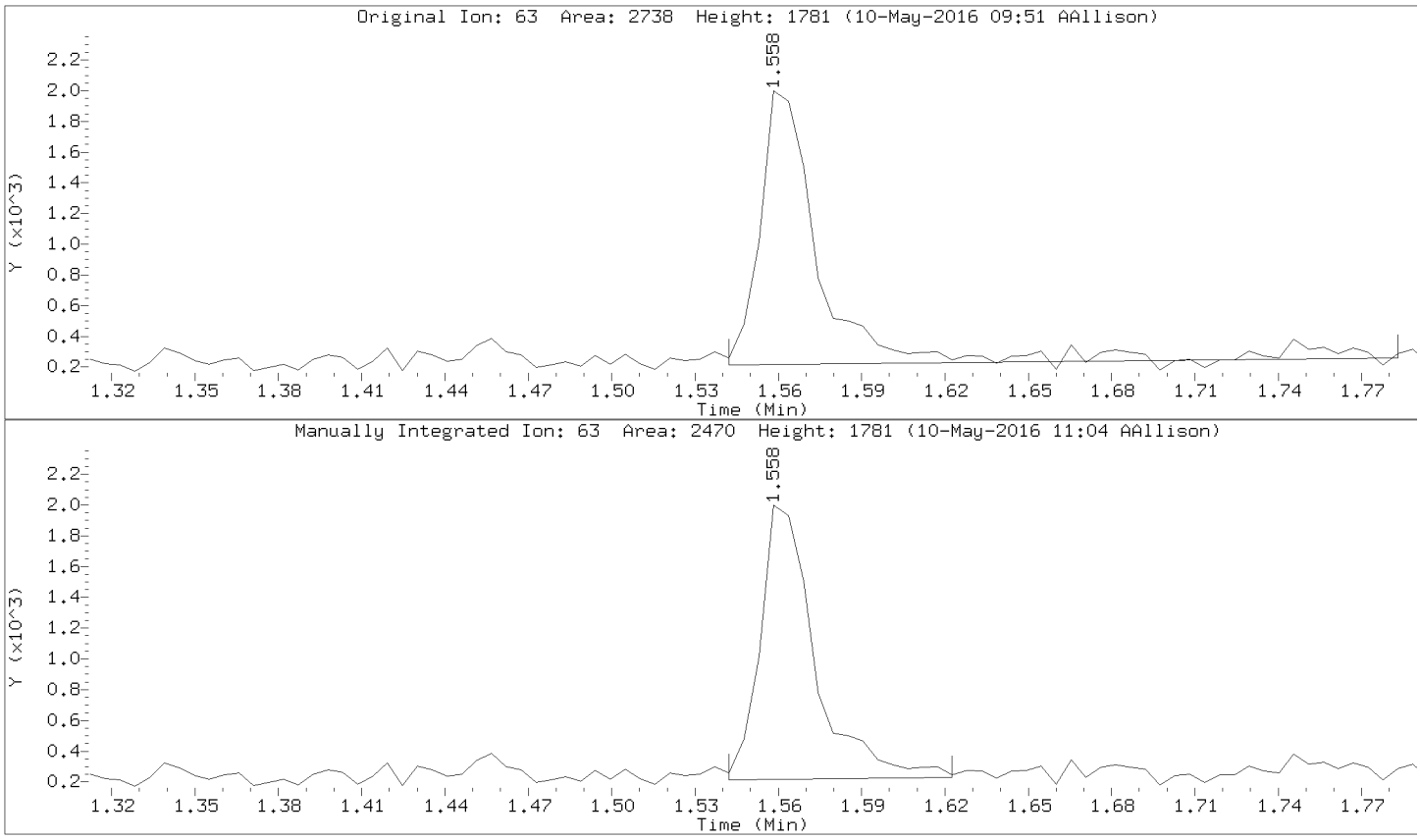






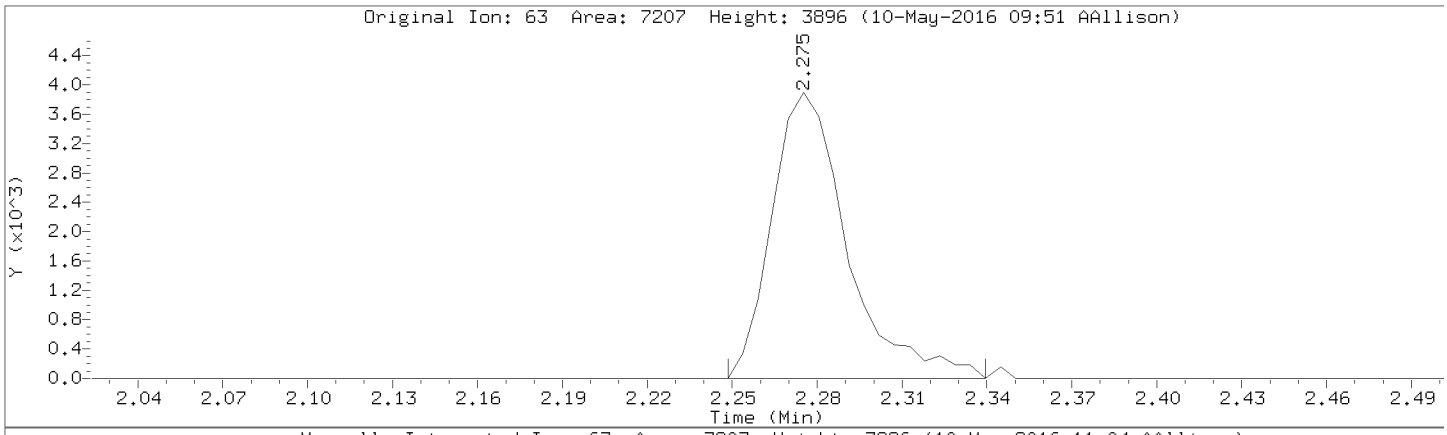


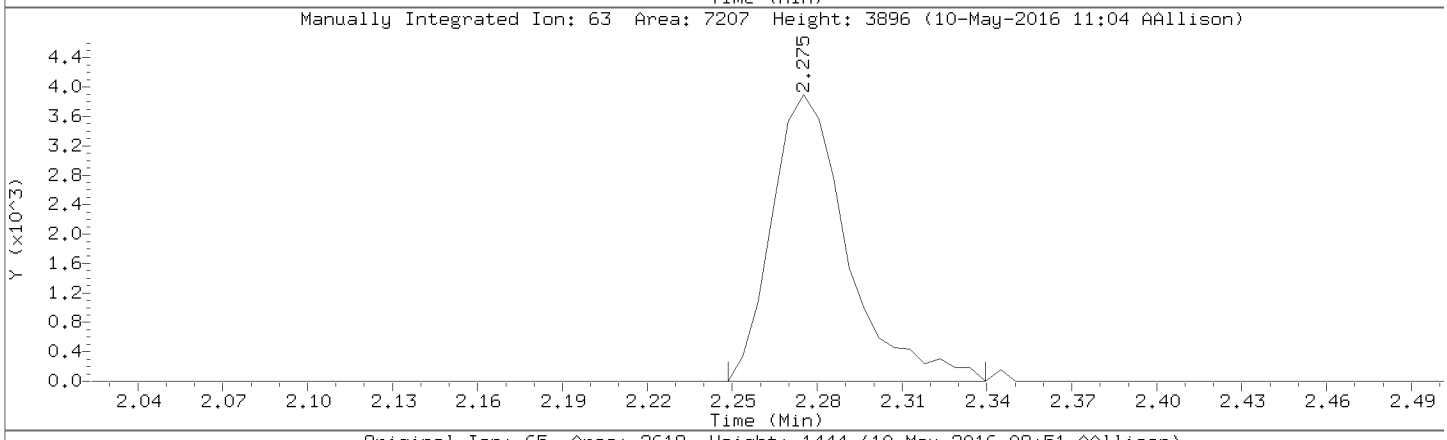
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

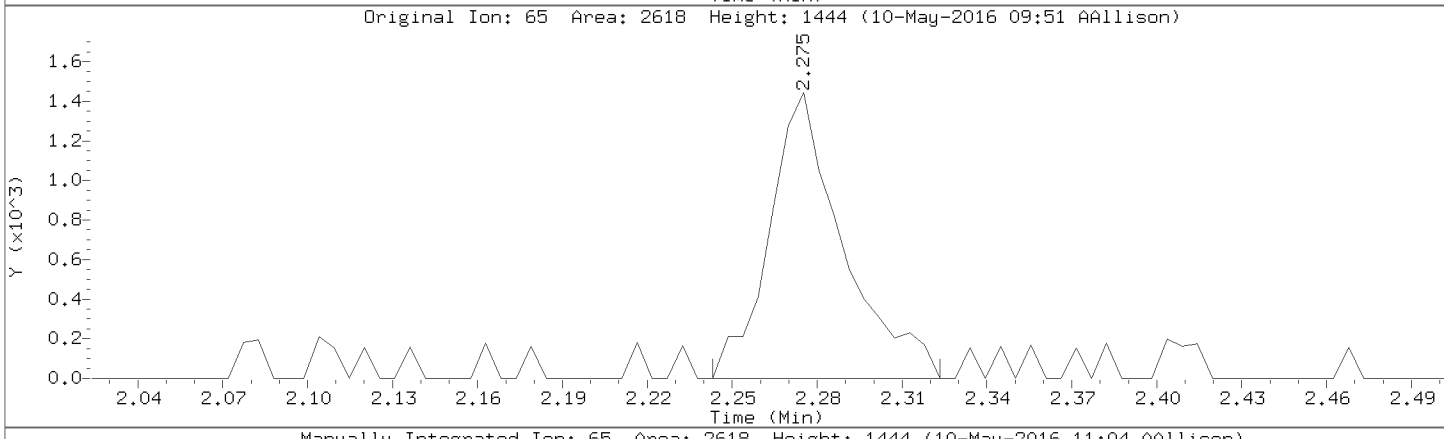


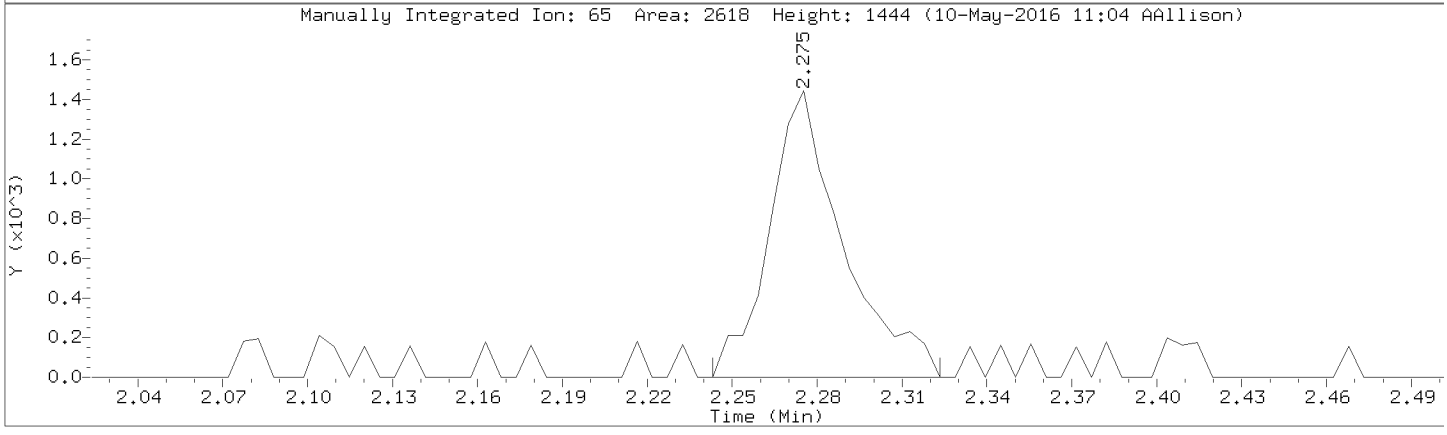
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1-Dichloroethane Review Code: GT
CAS Number: 75-34-3

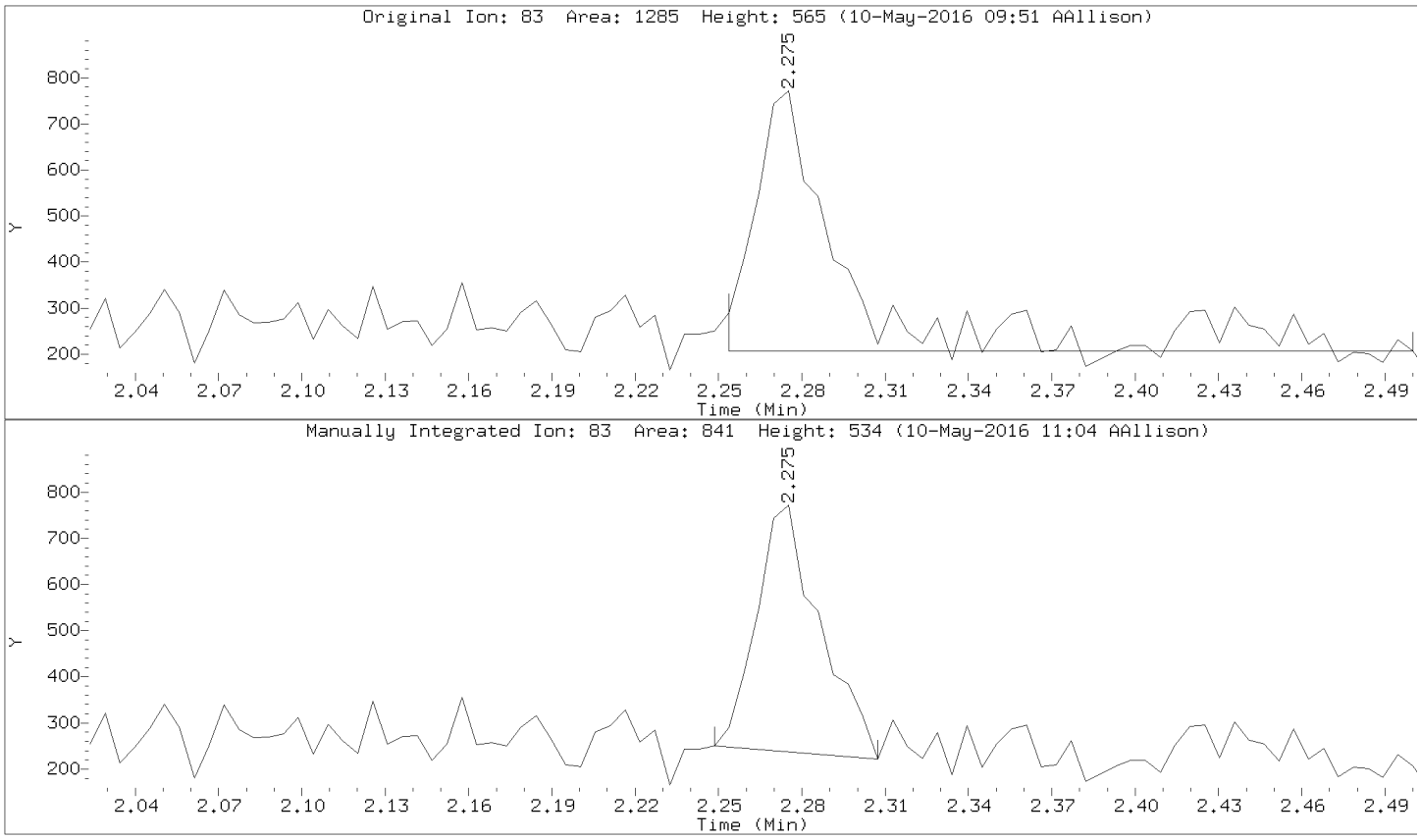






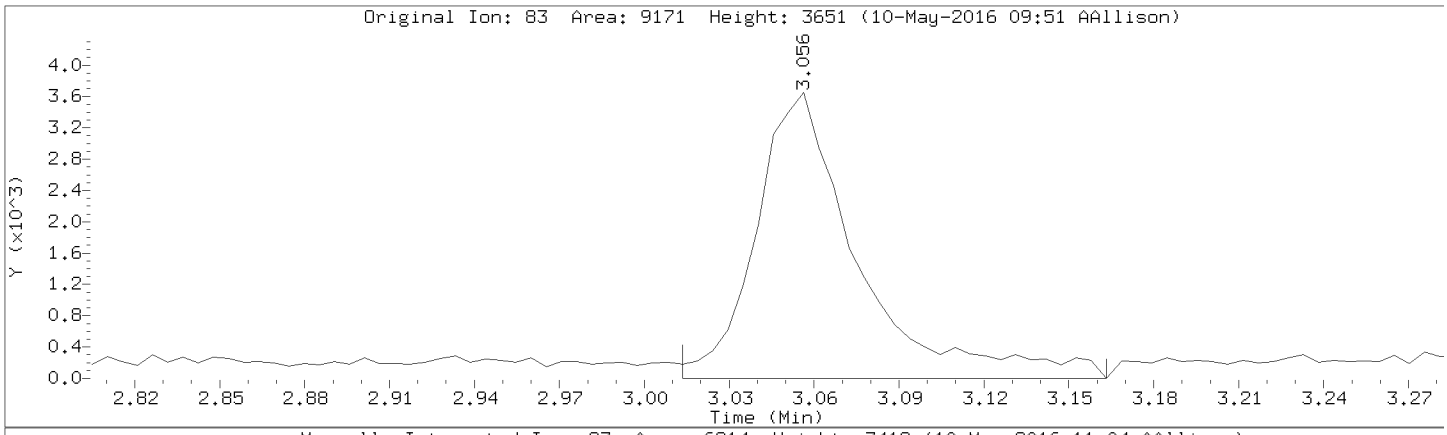


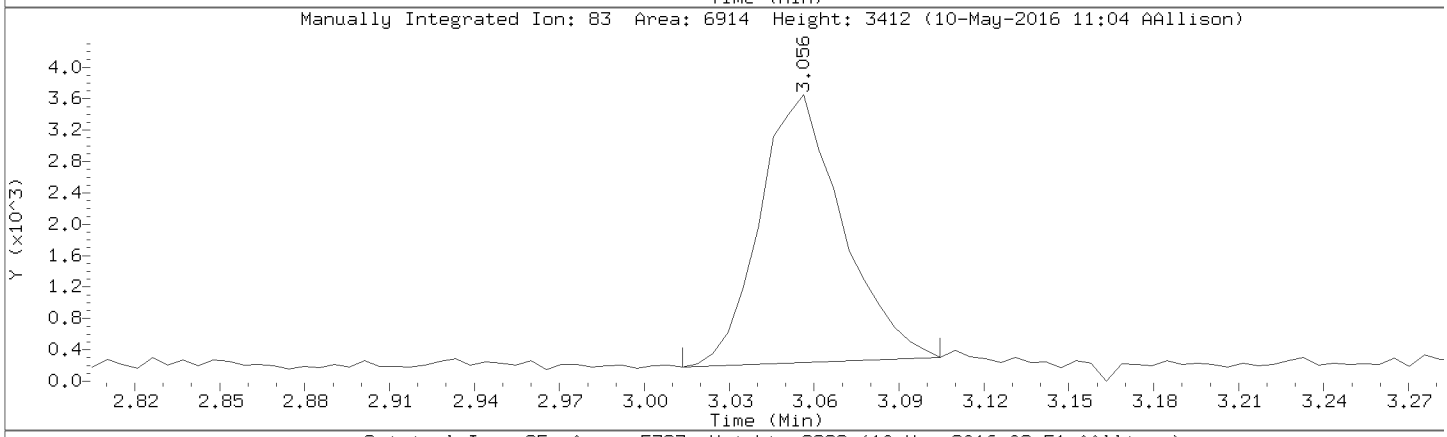
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

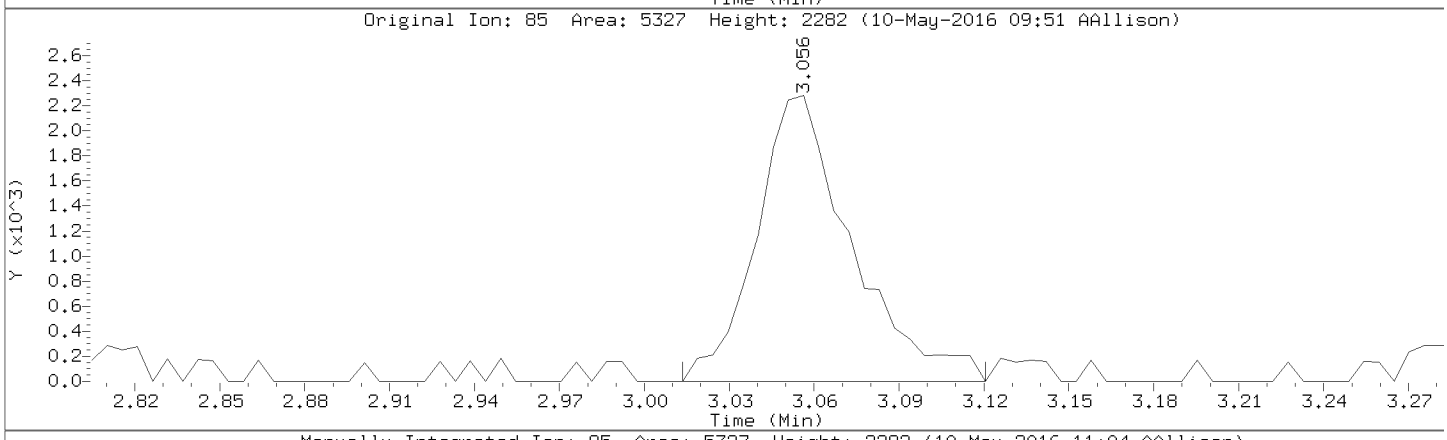


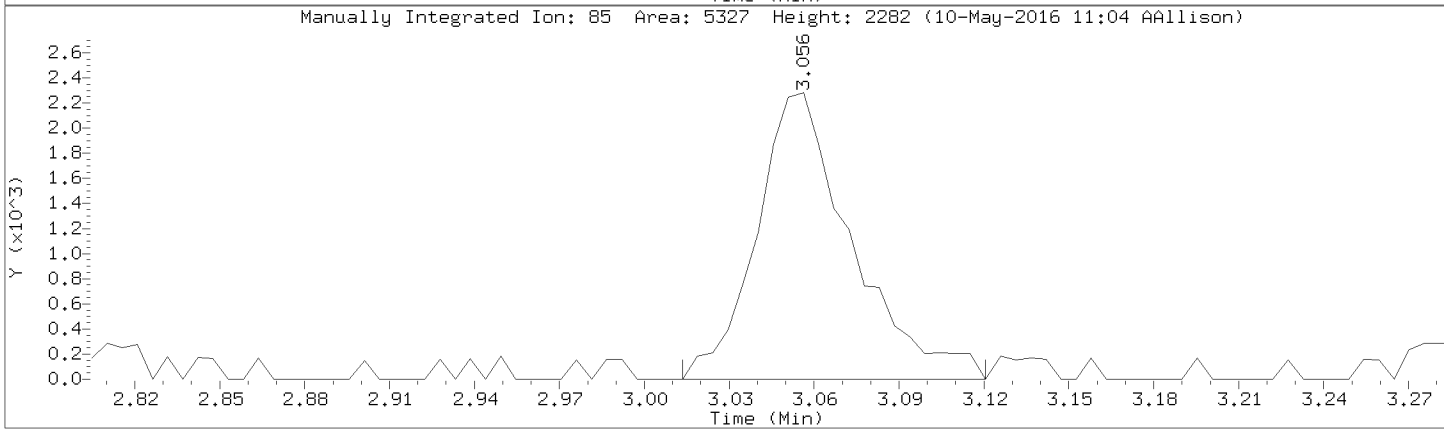
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Chloroform Review Code: GT
CAS Number: 67-66-3



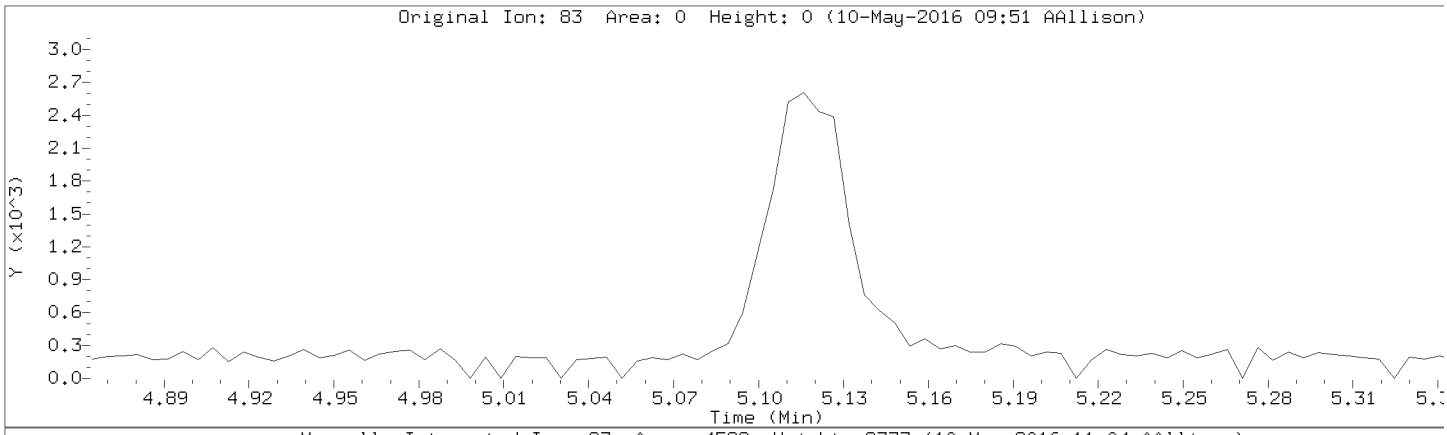


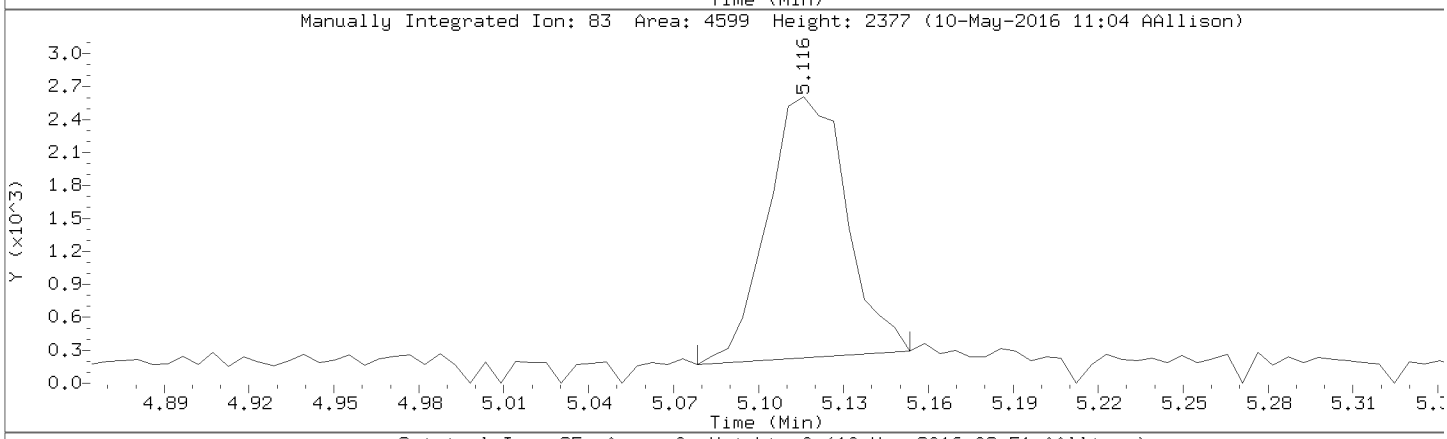


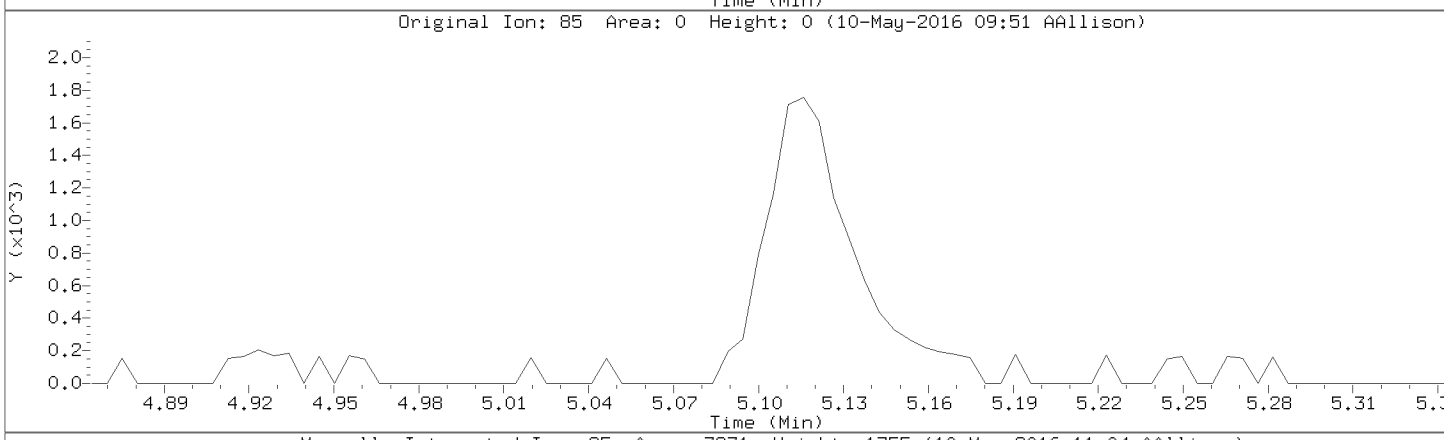


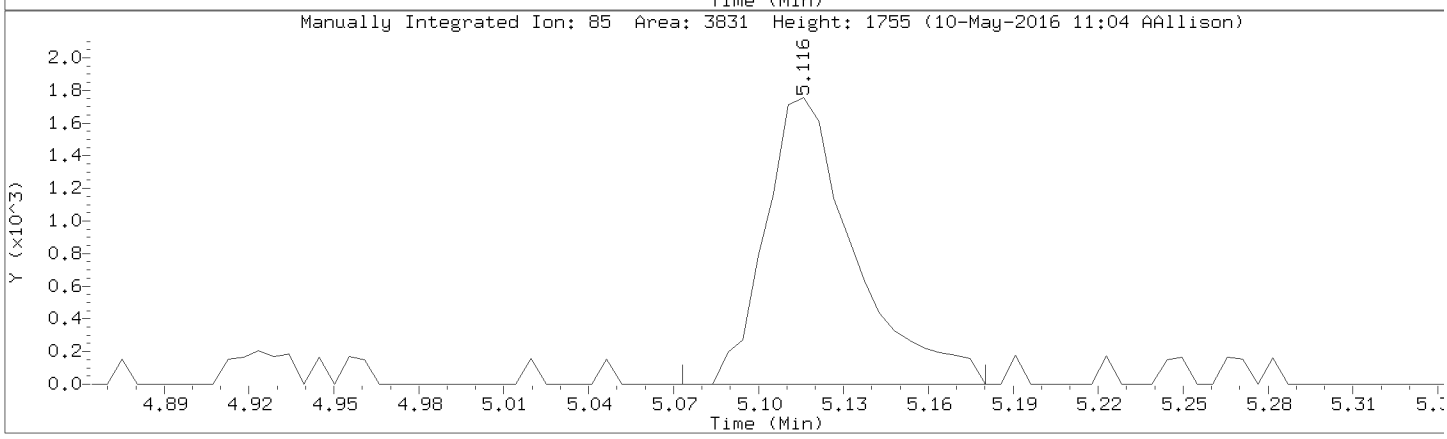
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Bromodichloromethane Review Code: NI
CAS Number: 75-27-4

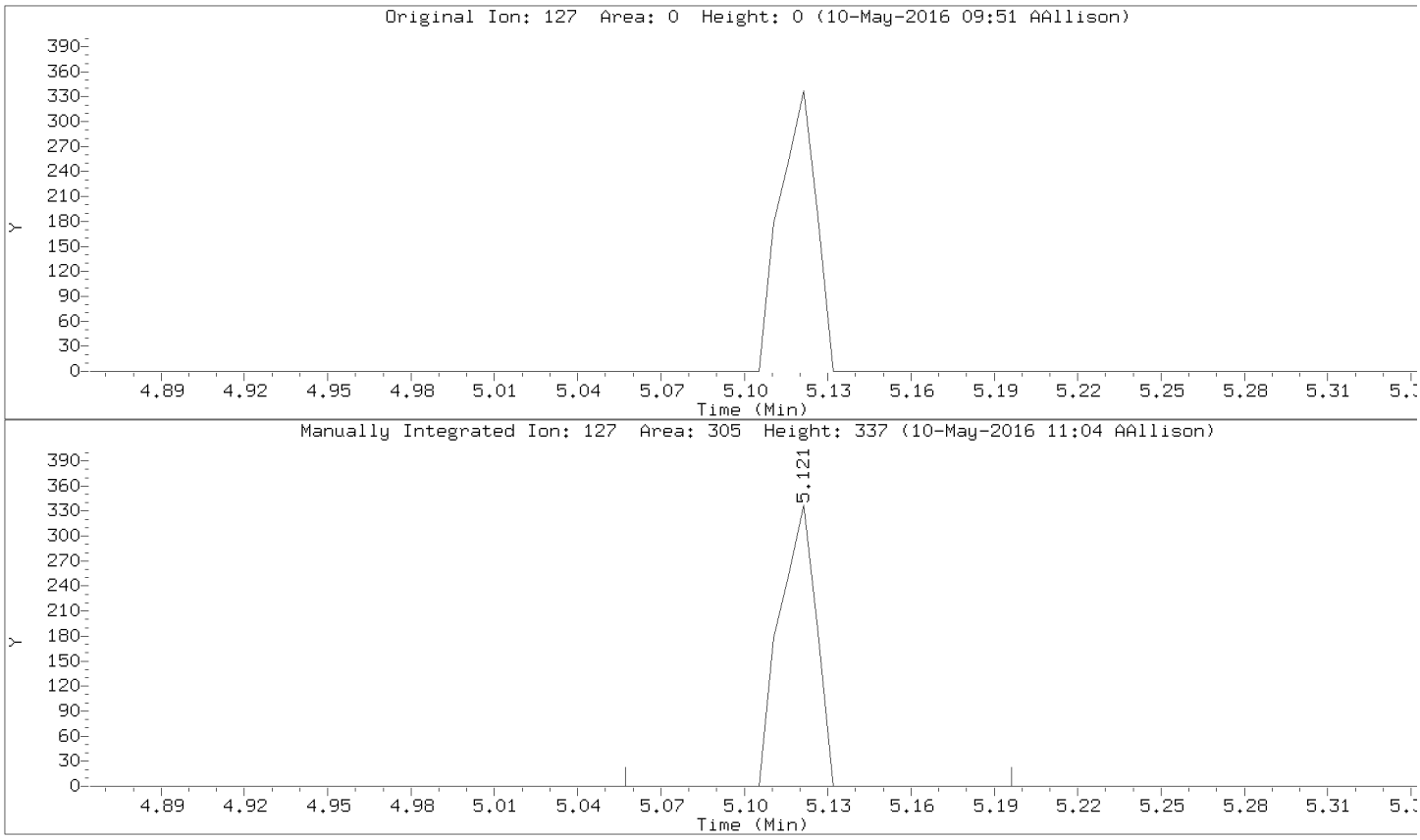






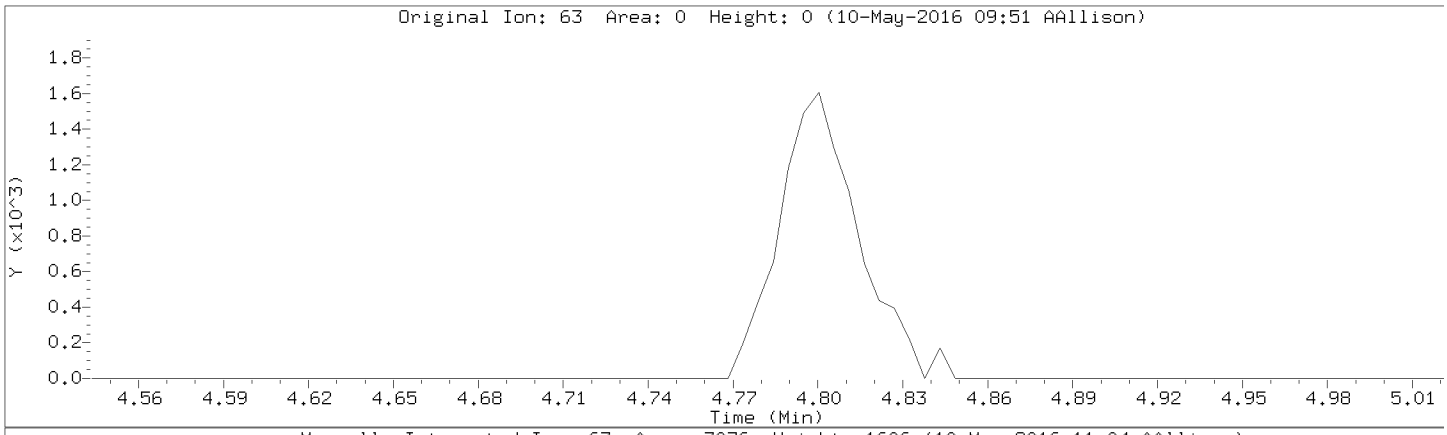


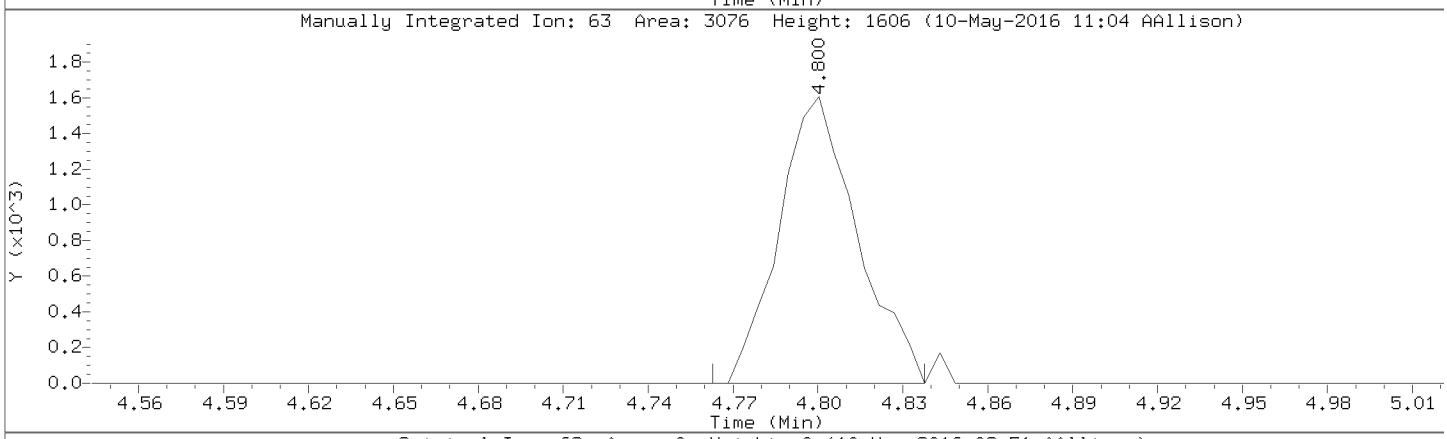
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

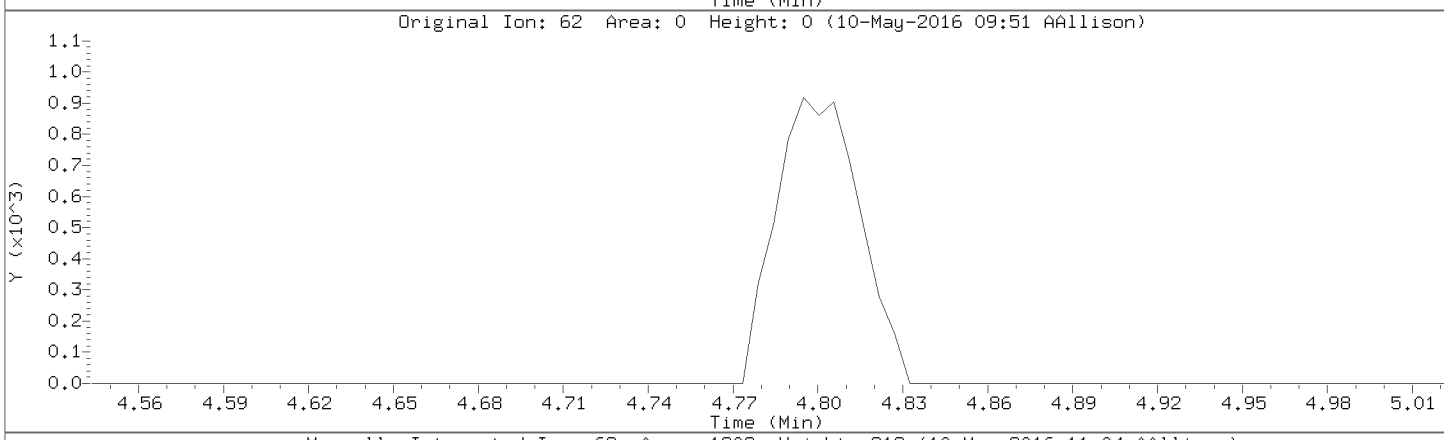


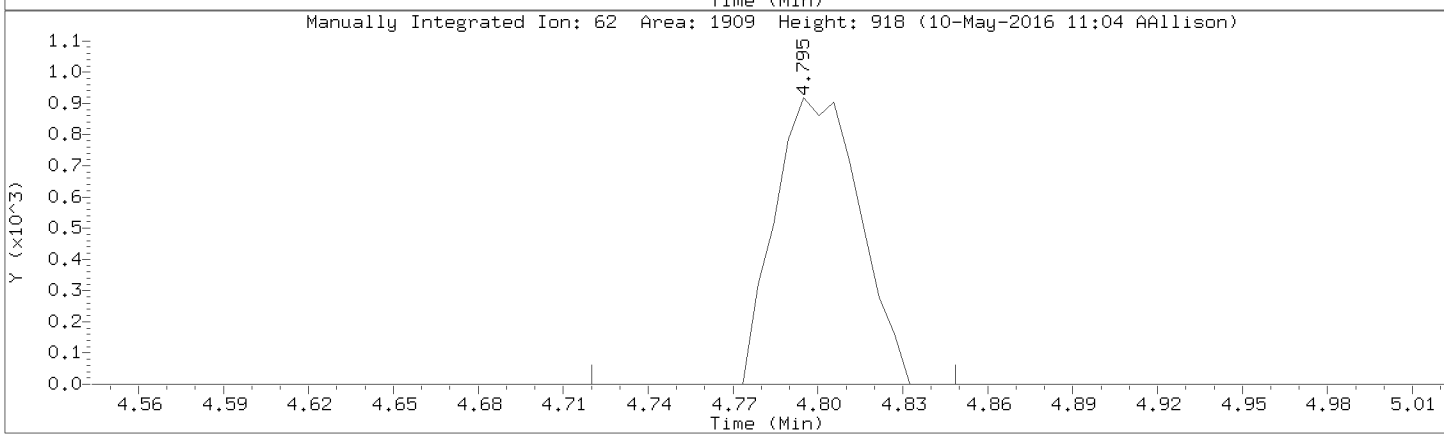
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5

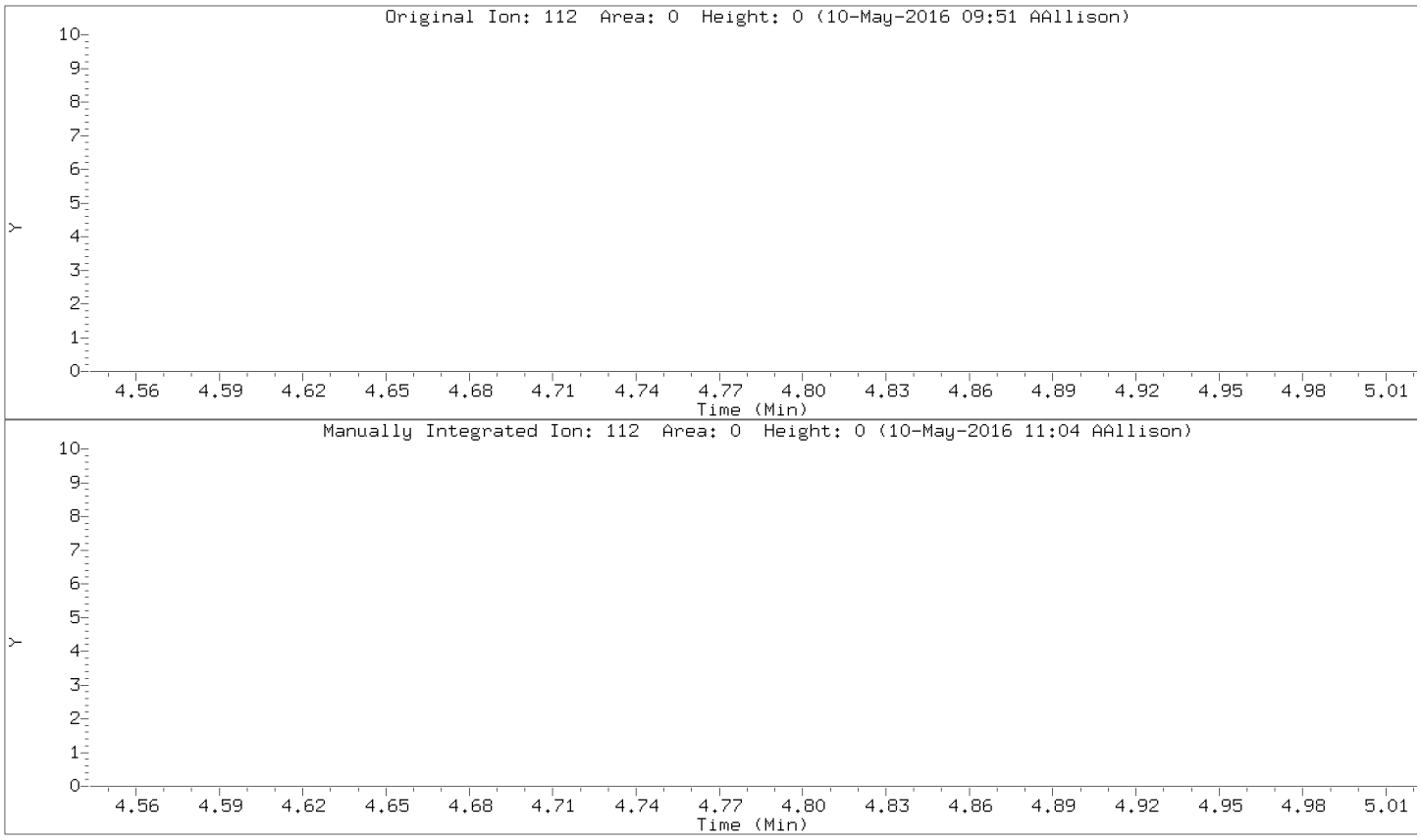






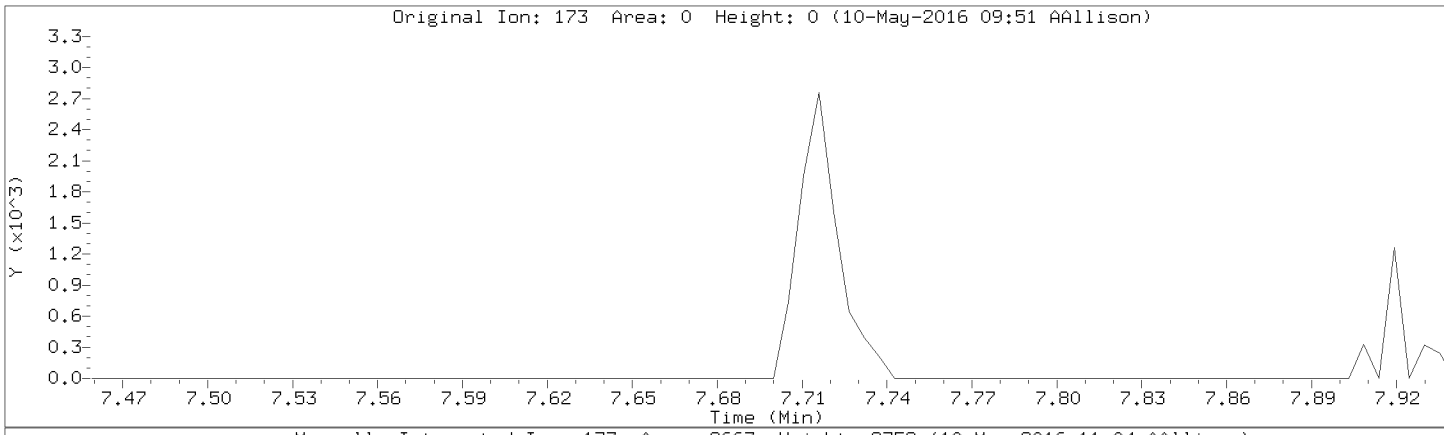


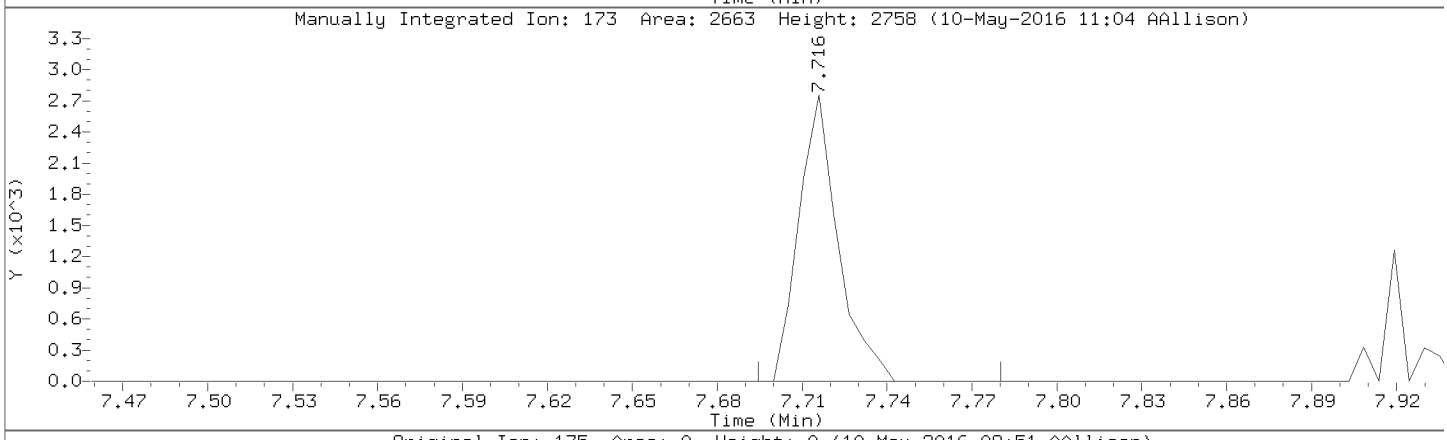
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

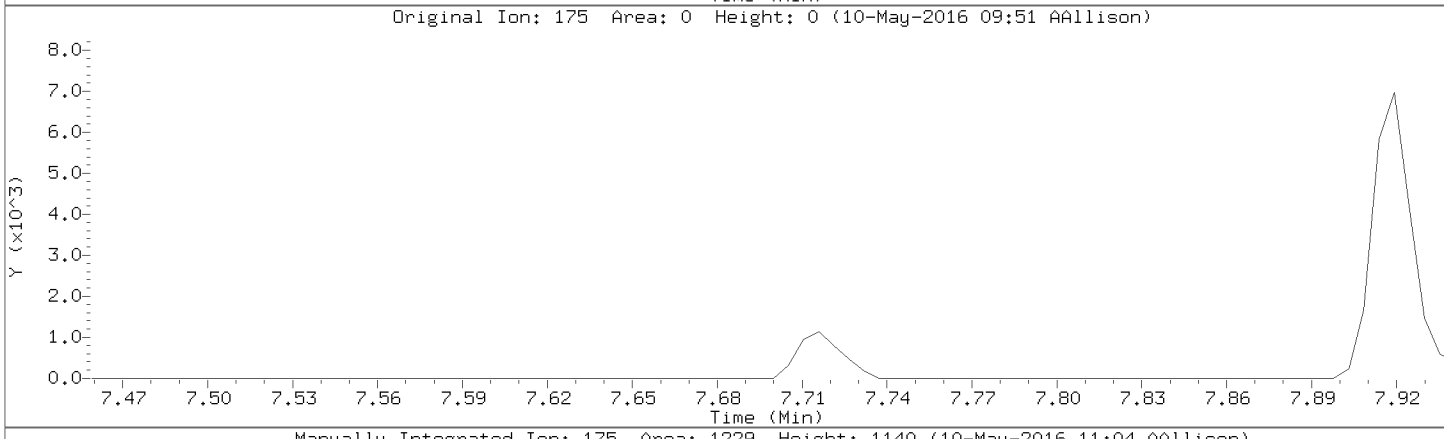


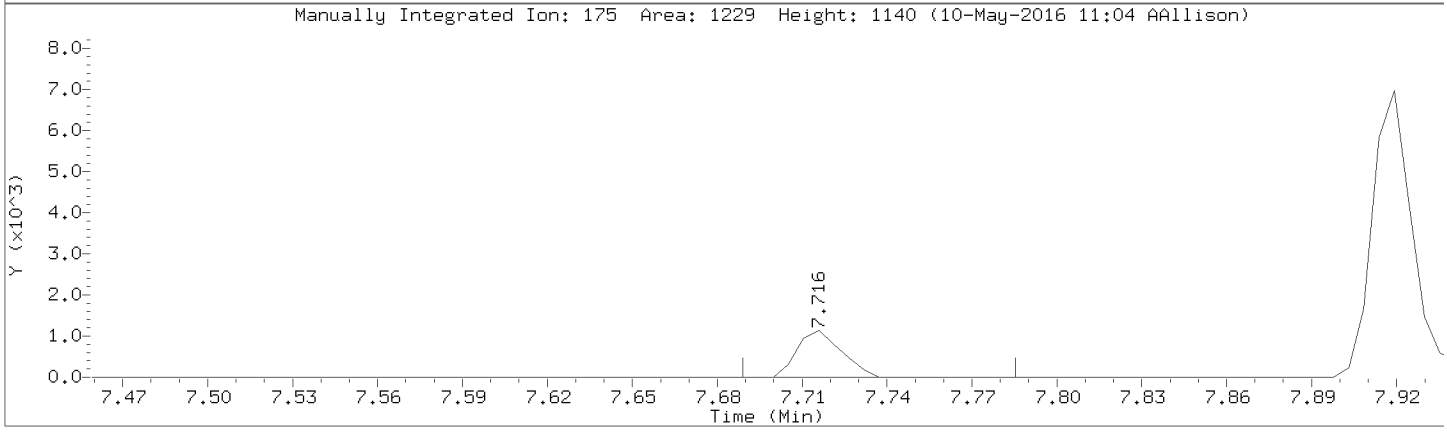
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Bromoform Review Code: NI
CAS Number: 75-25-2

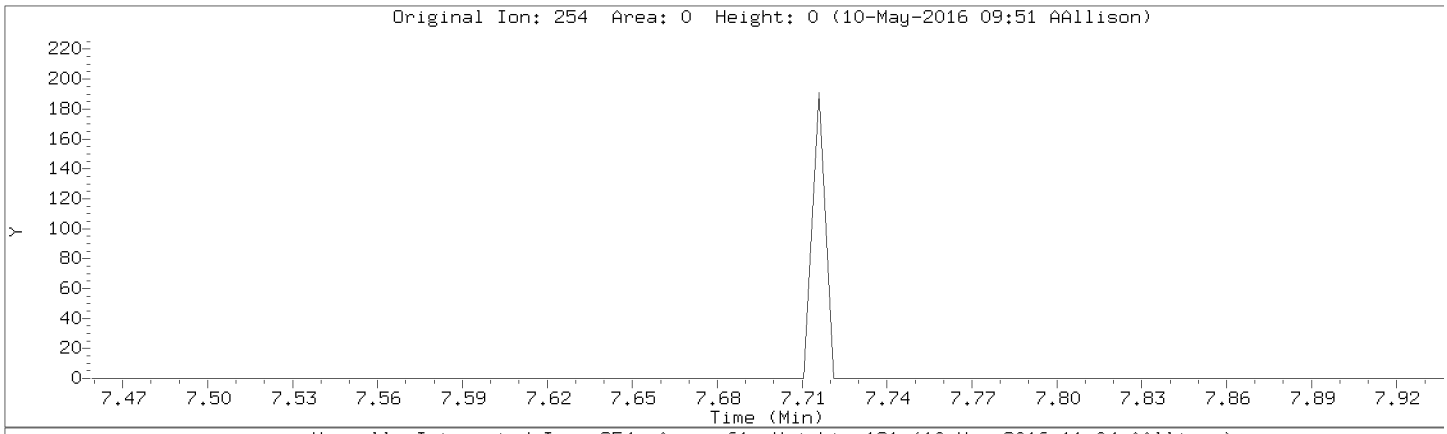


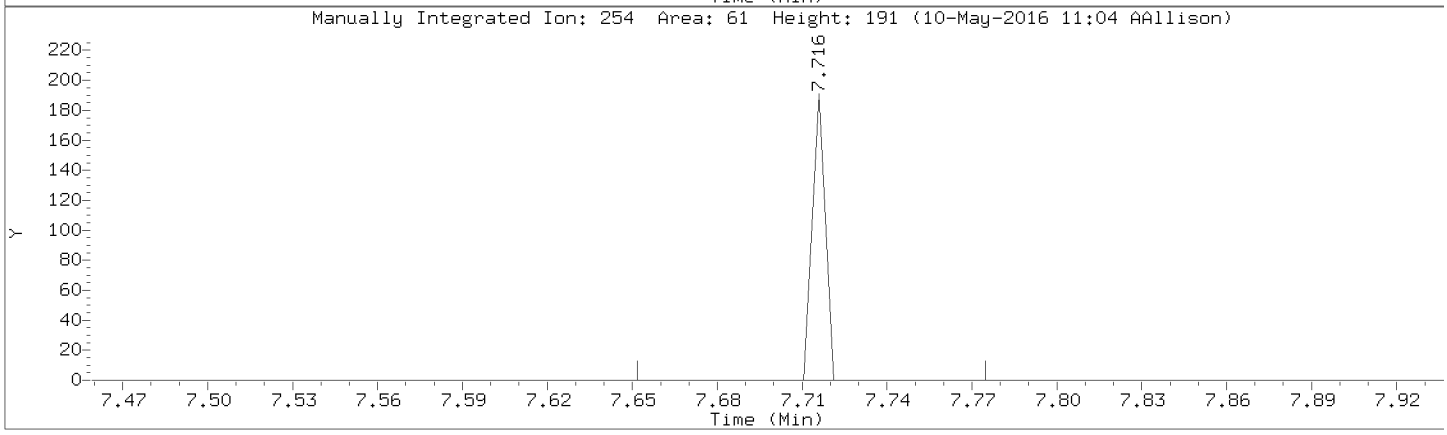






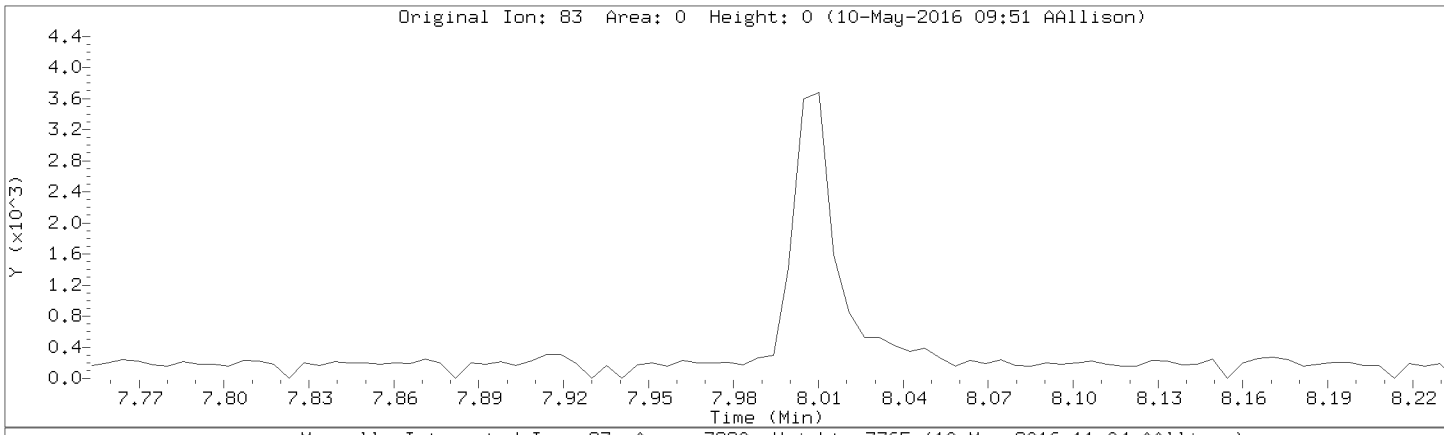
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

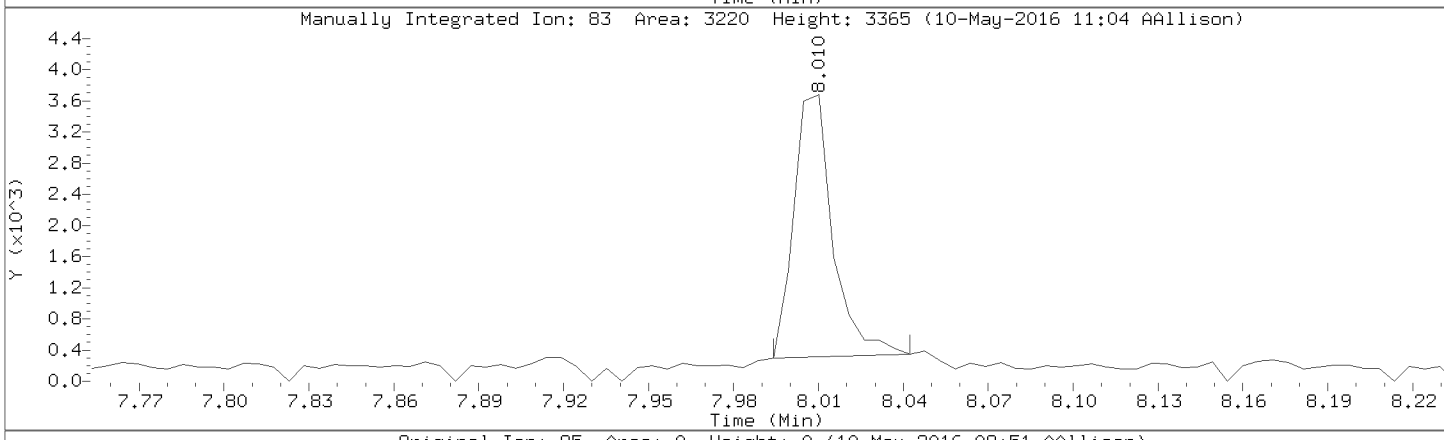


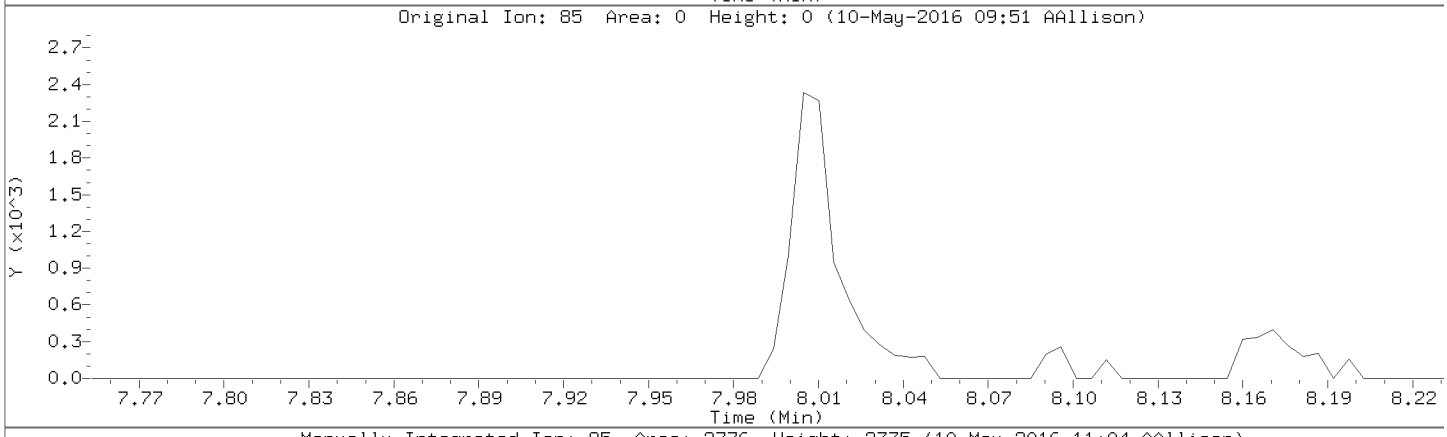


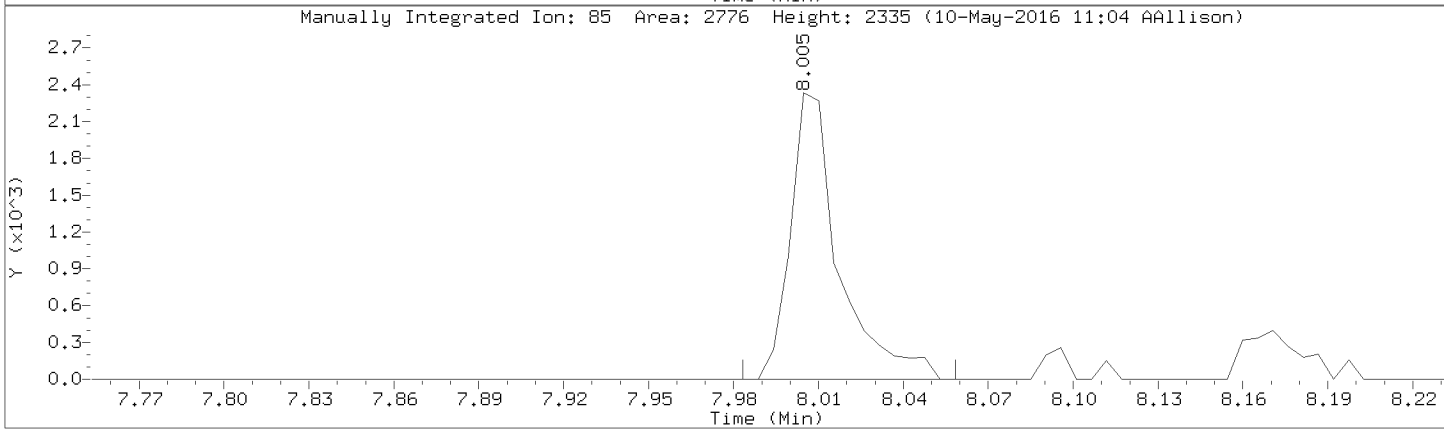
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,1,2,2-Tetrachloroethane Review Code: NI
CAS Number: 79-34-5

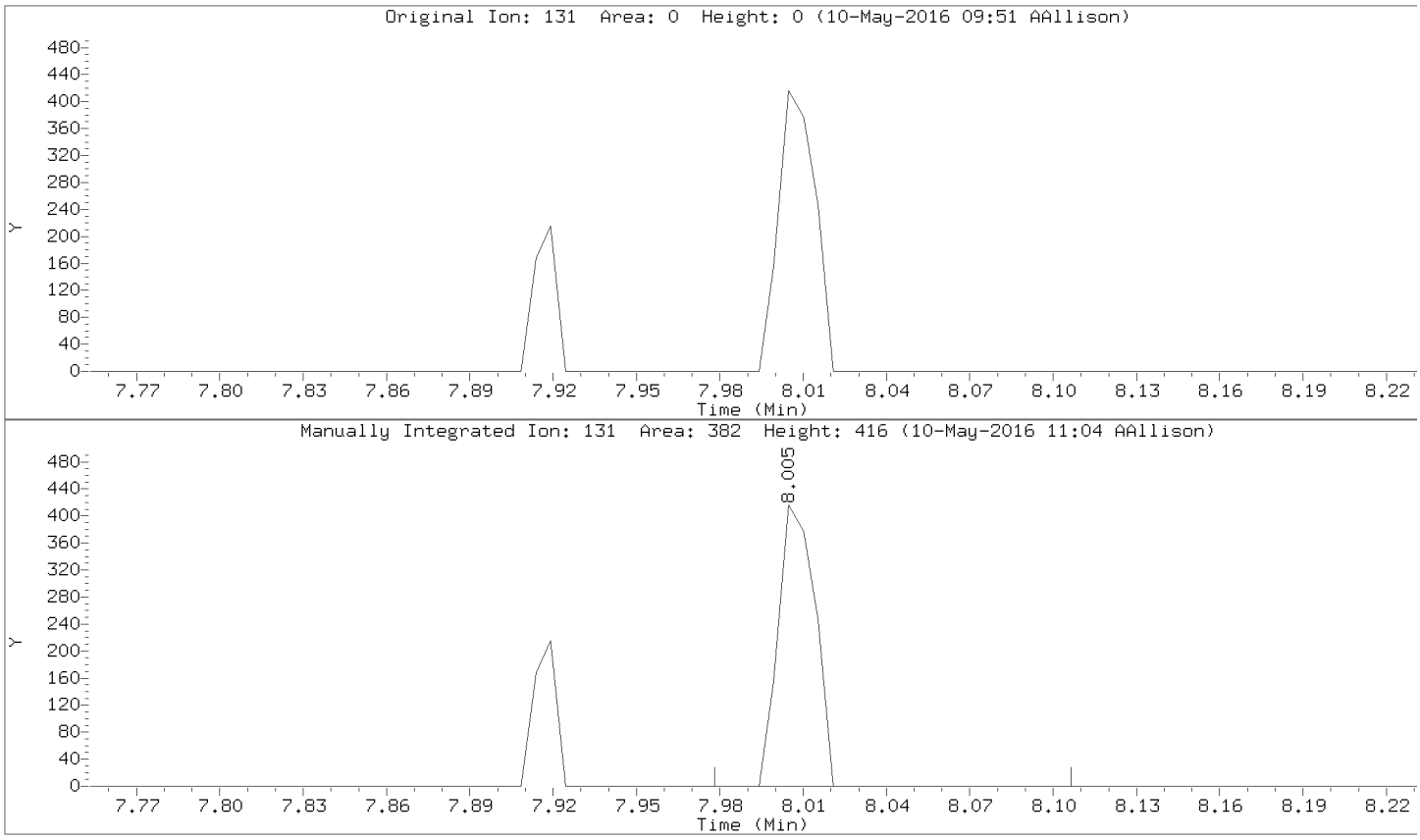






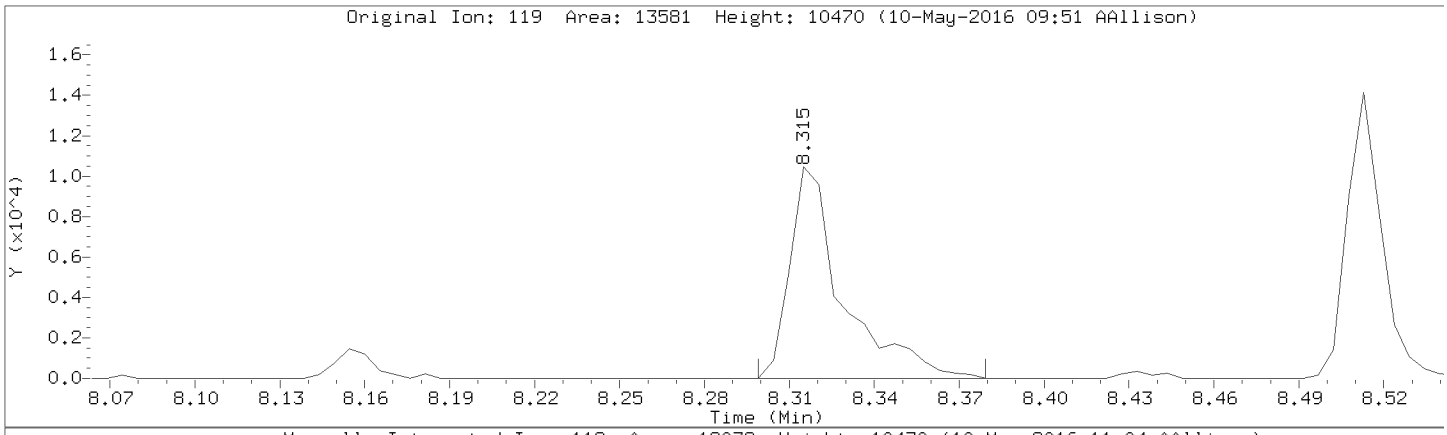


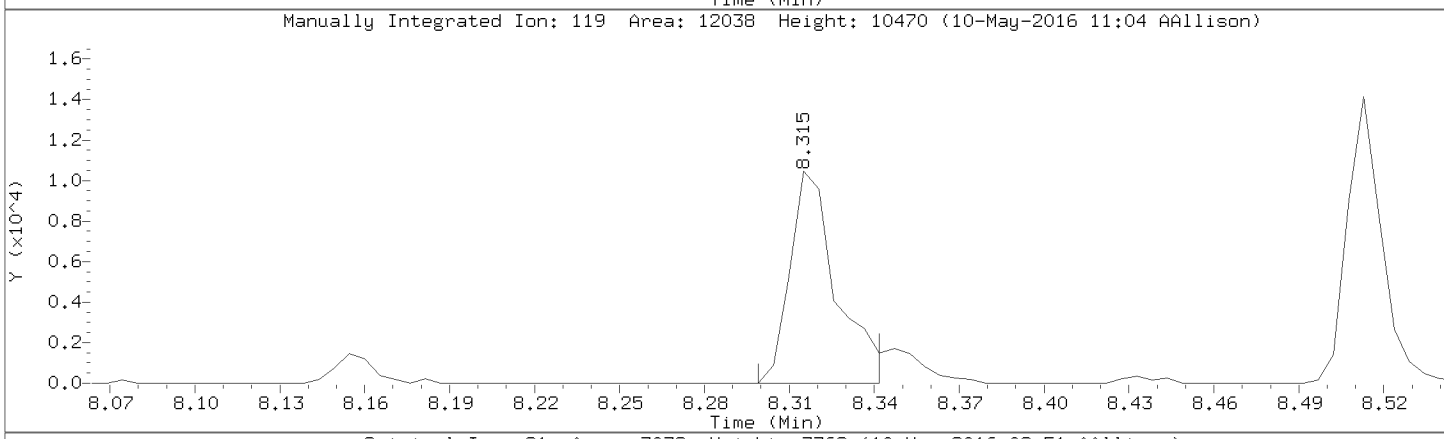
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

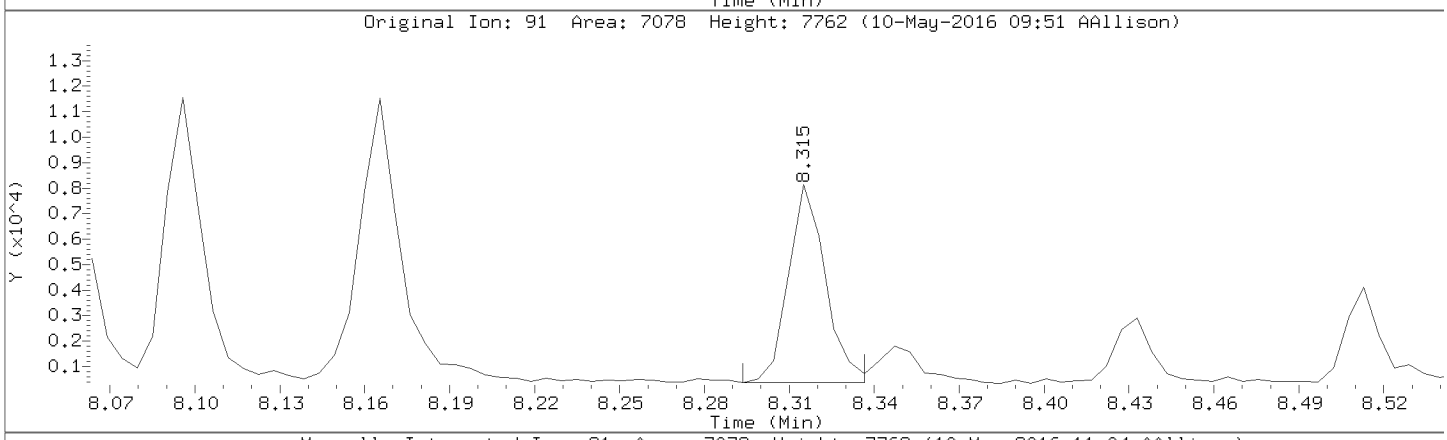


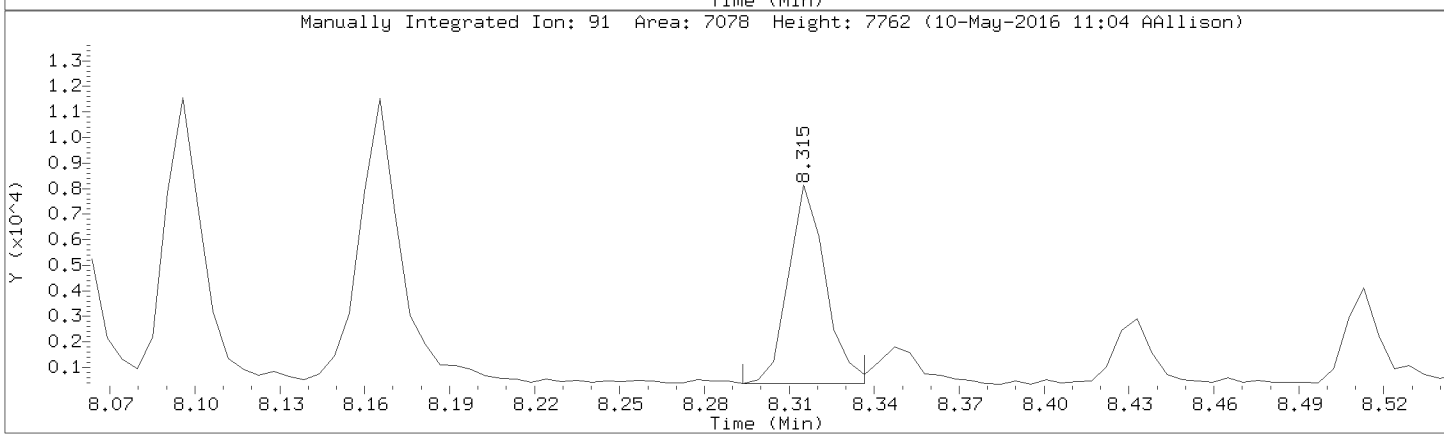
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

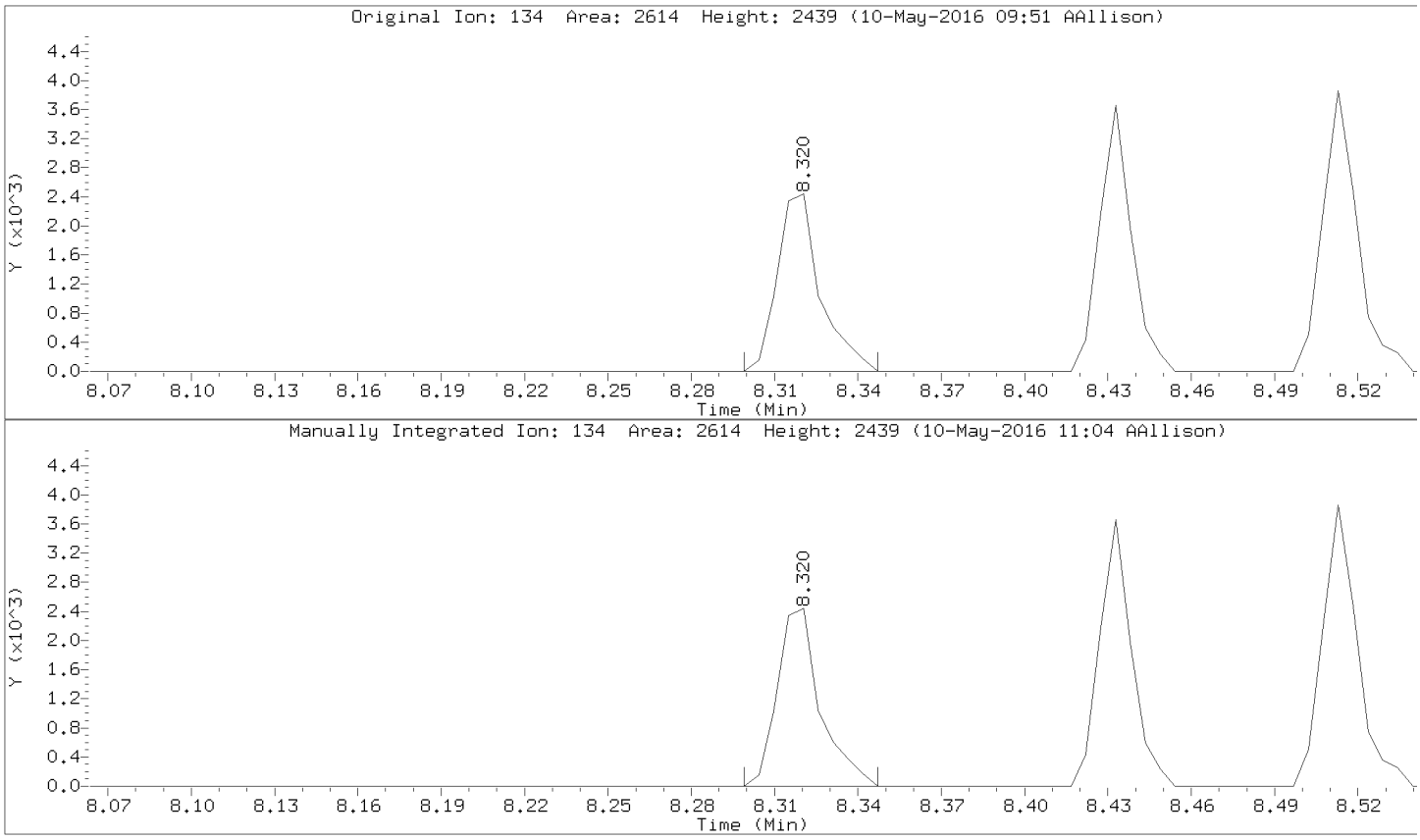






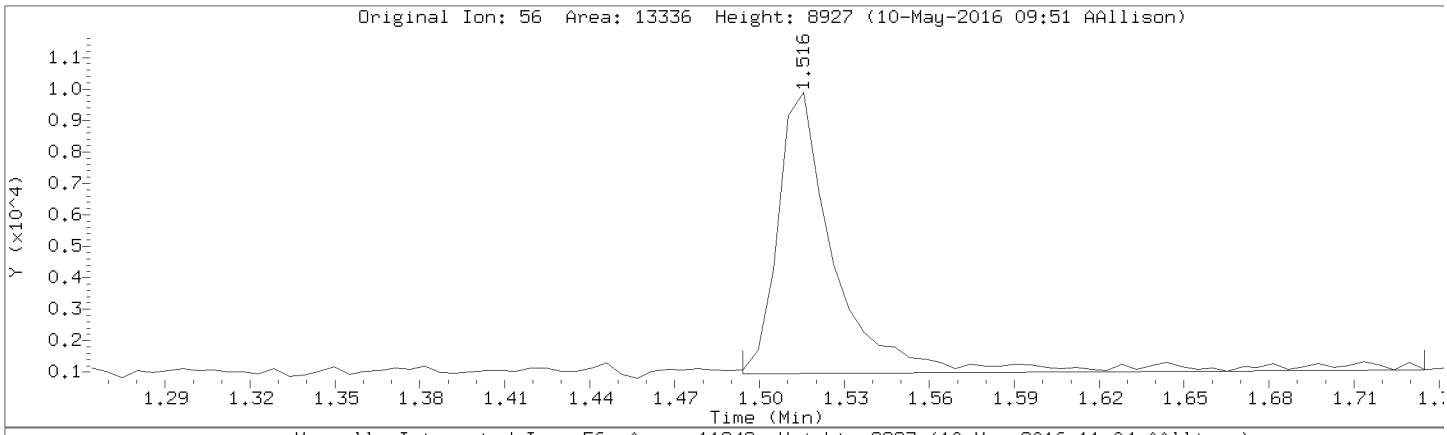


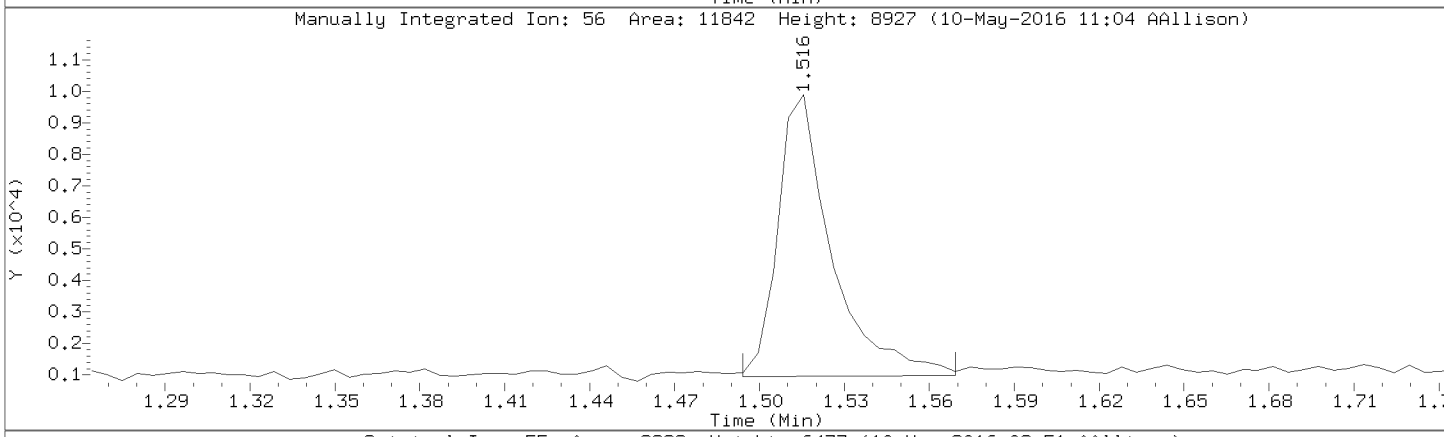
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

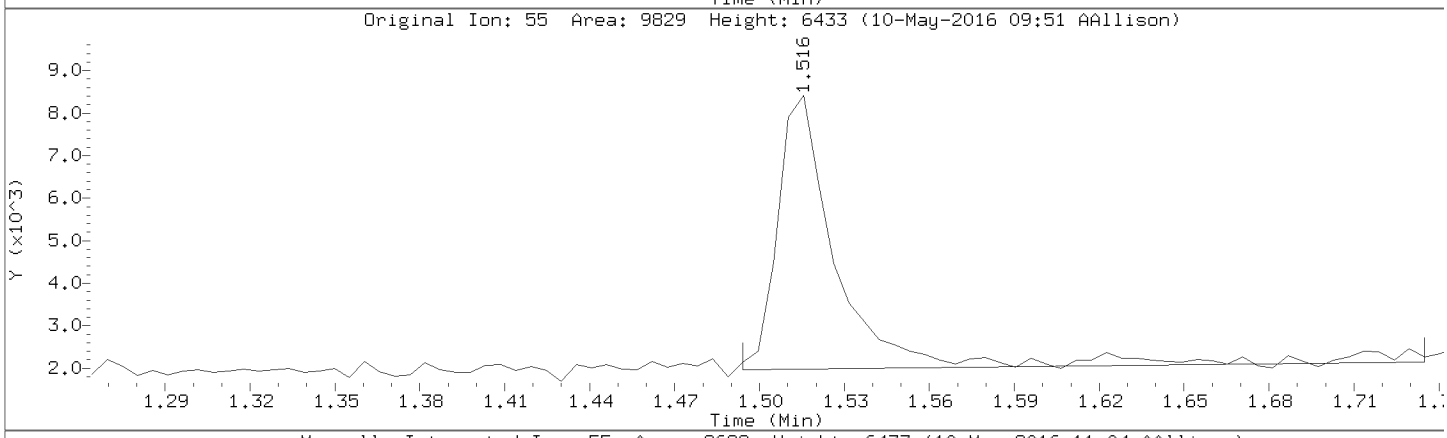


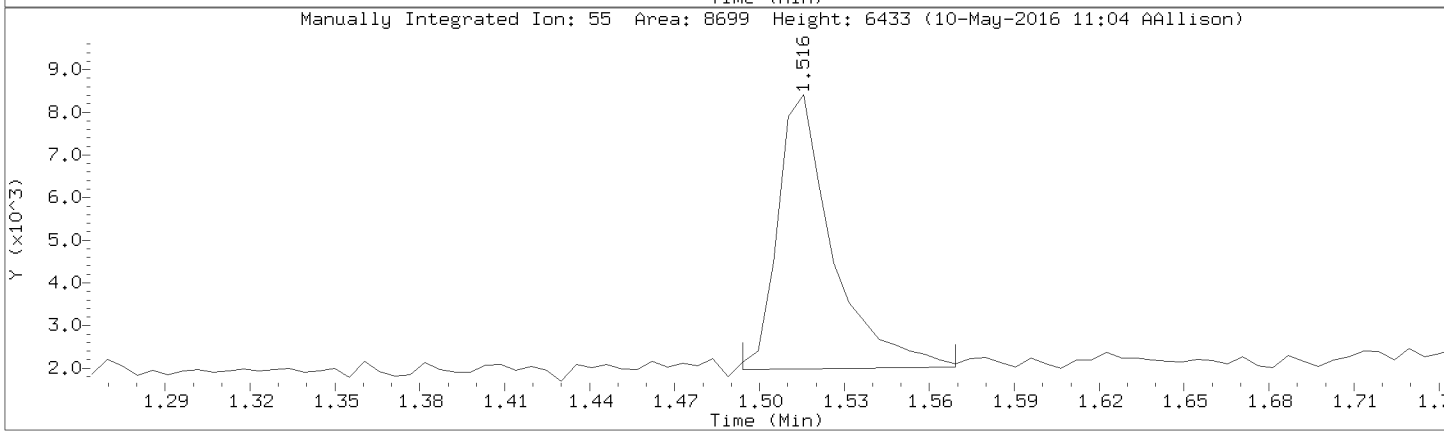
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Acrolein Review Code: GT
CAS Number: 107-02-8



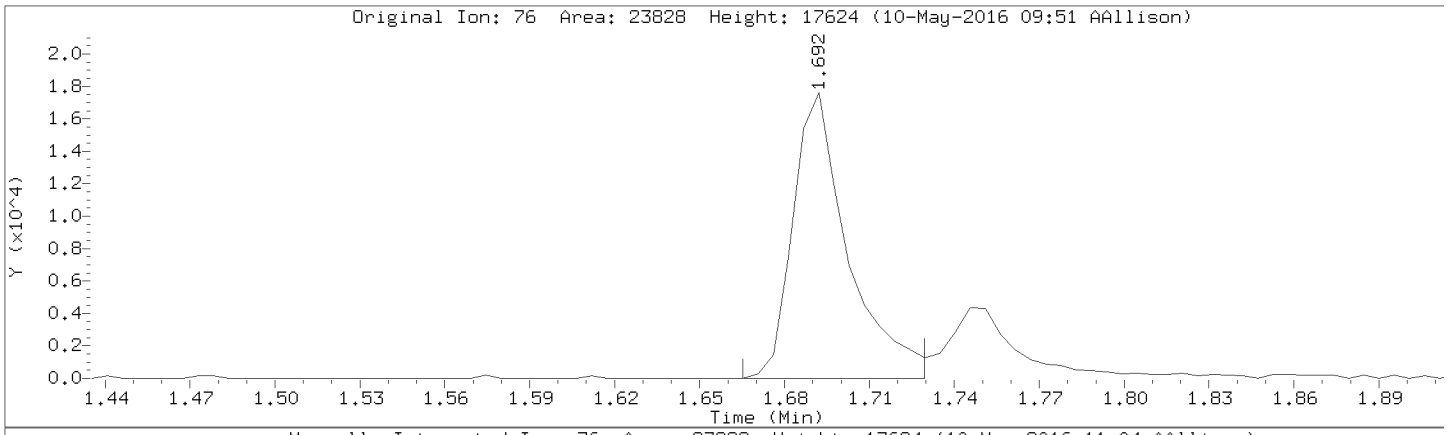


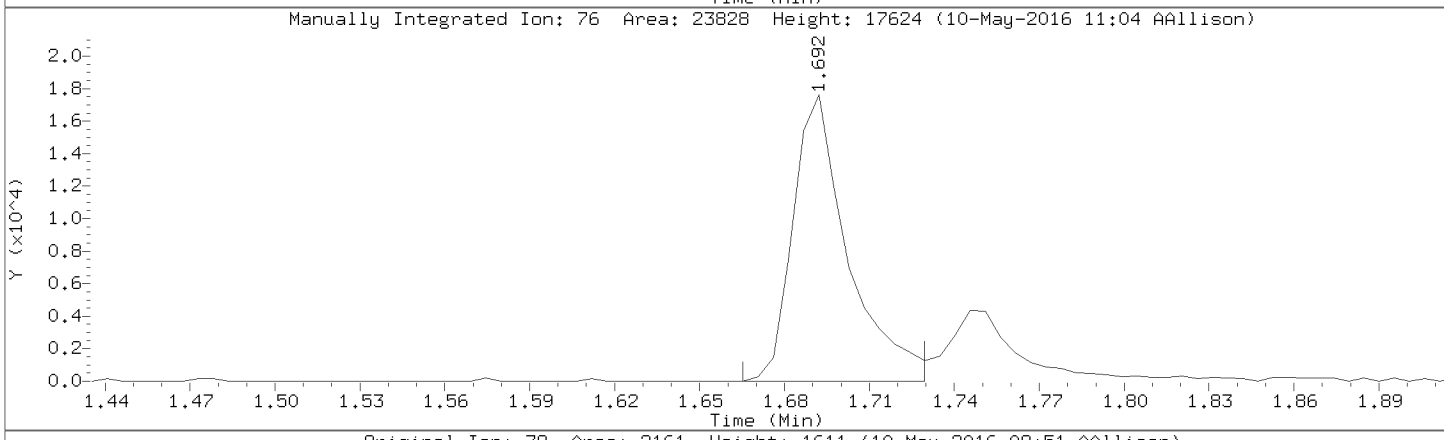


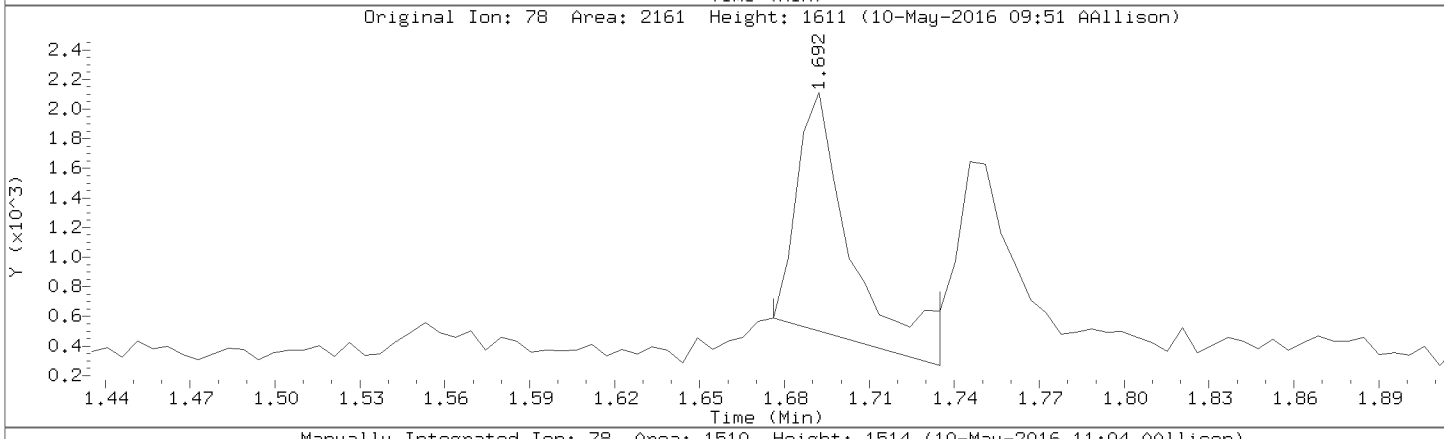


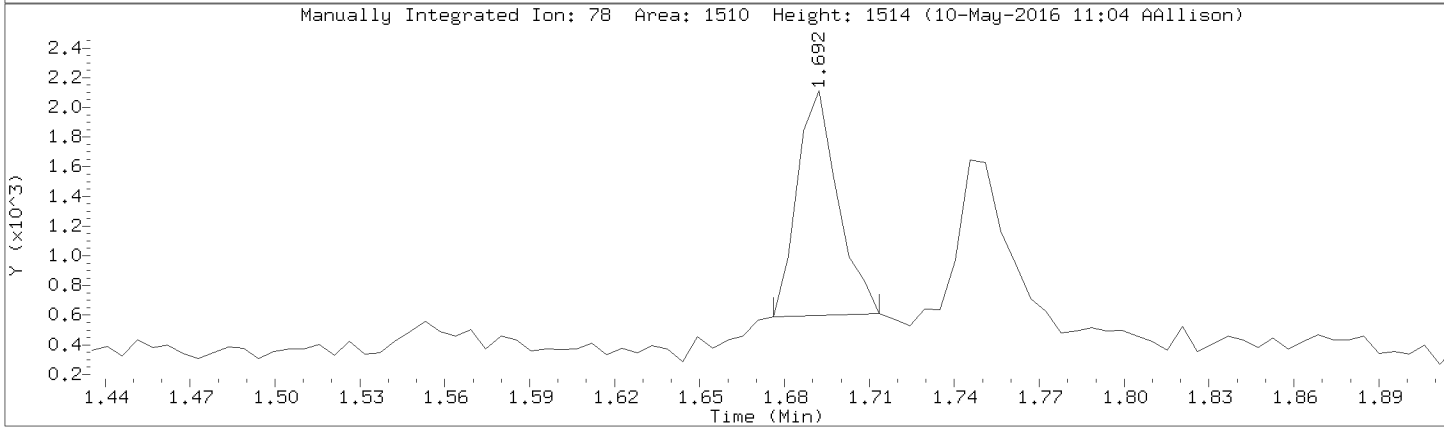
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Carbon Disulfide Review Code: GT
CAS Number: 75-15-0



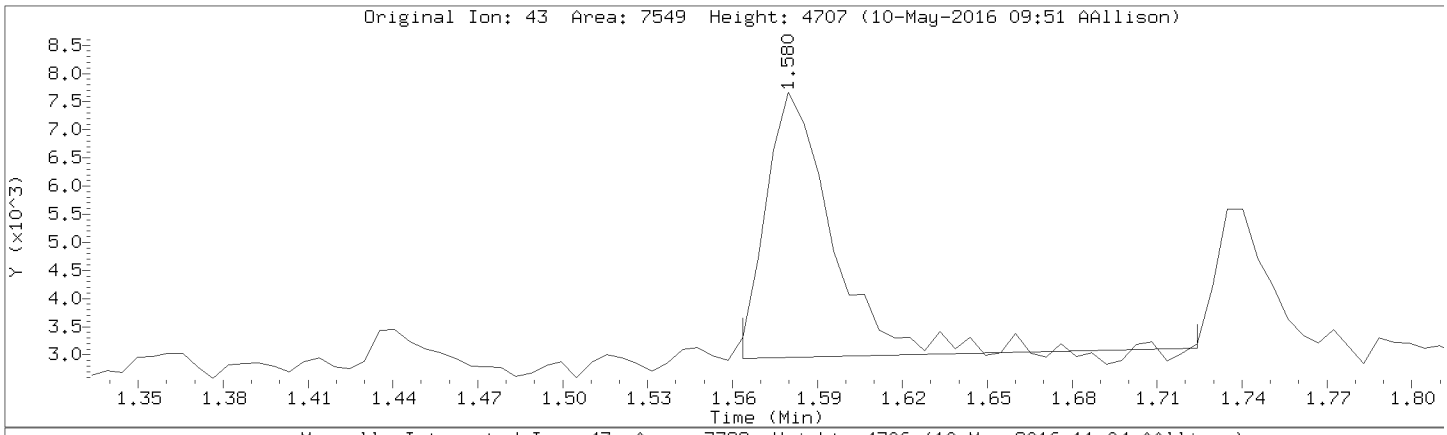


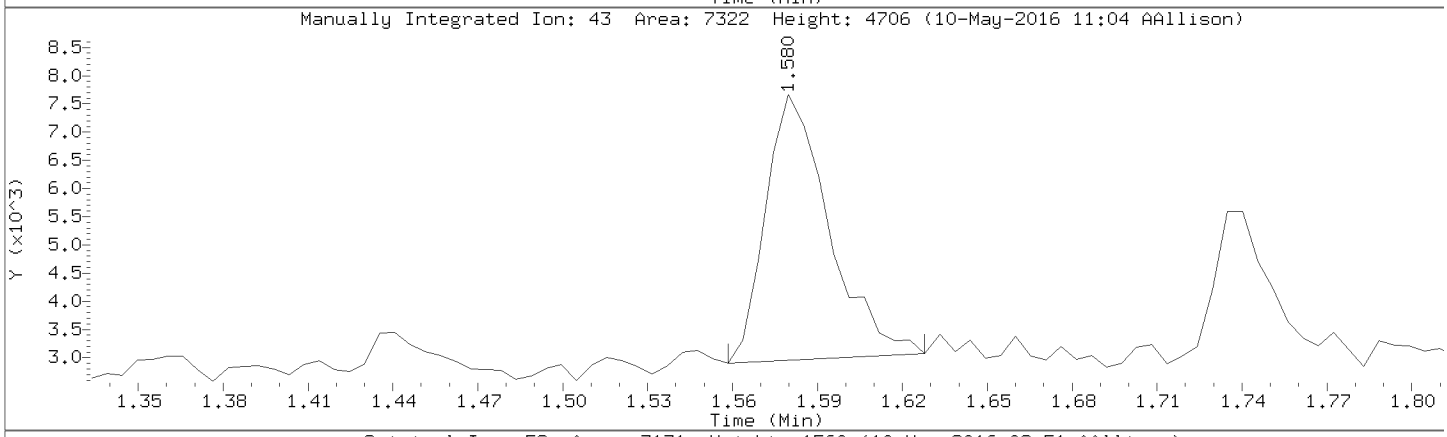


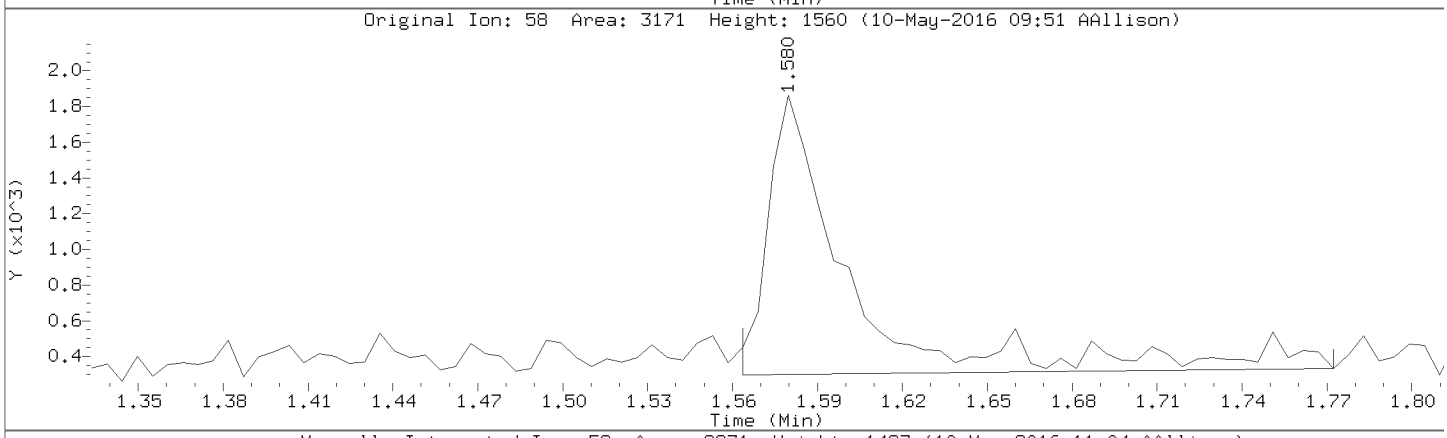


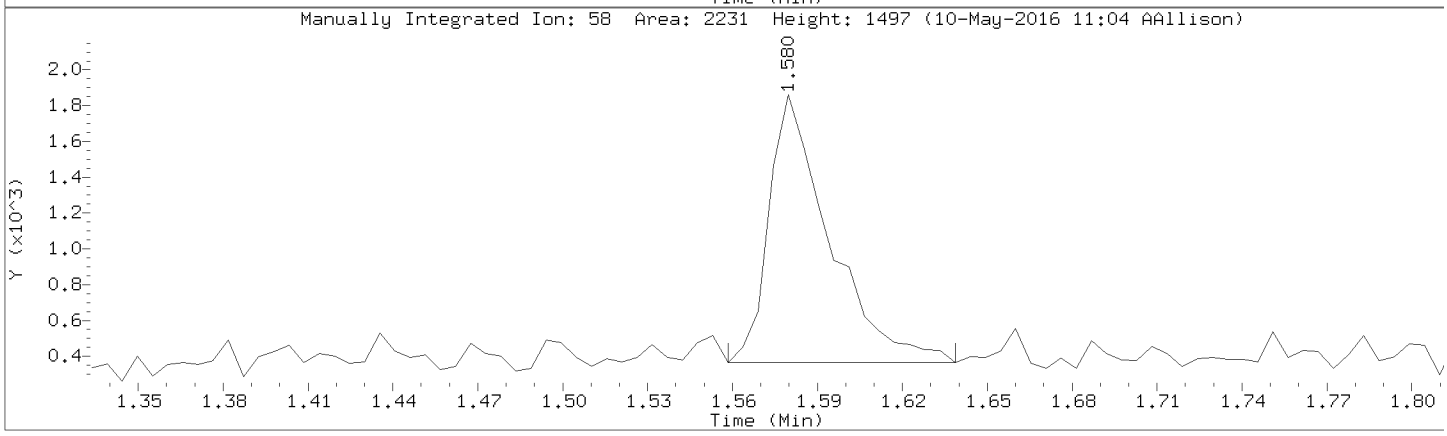
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Acetone Review Code: GT
CAS Number: 67-64-1



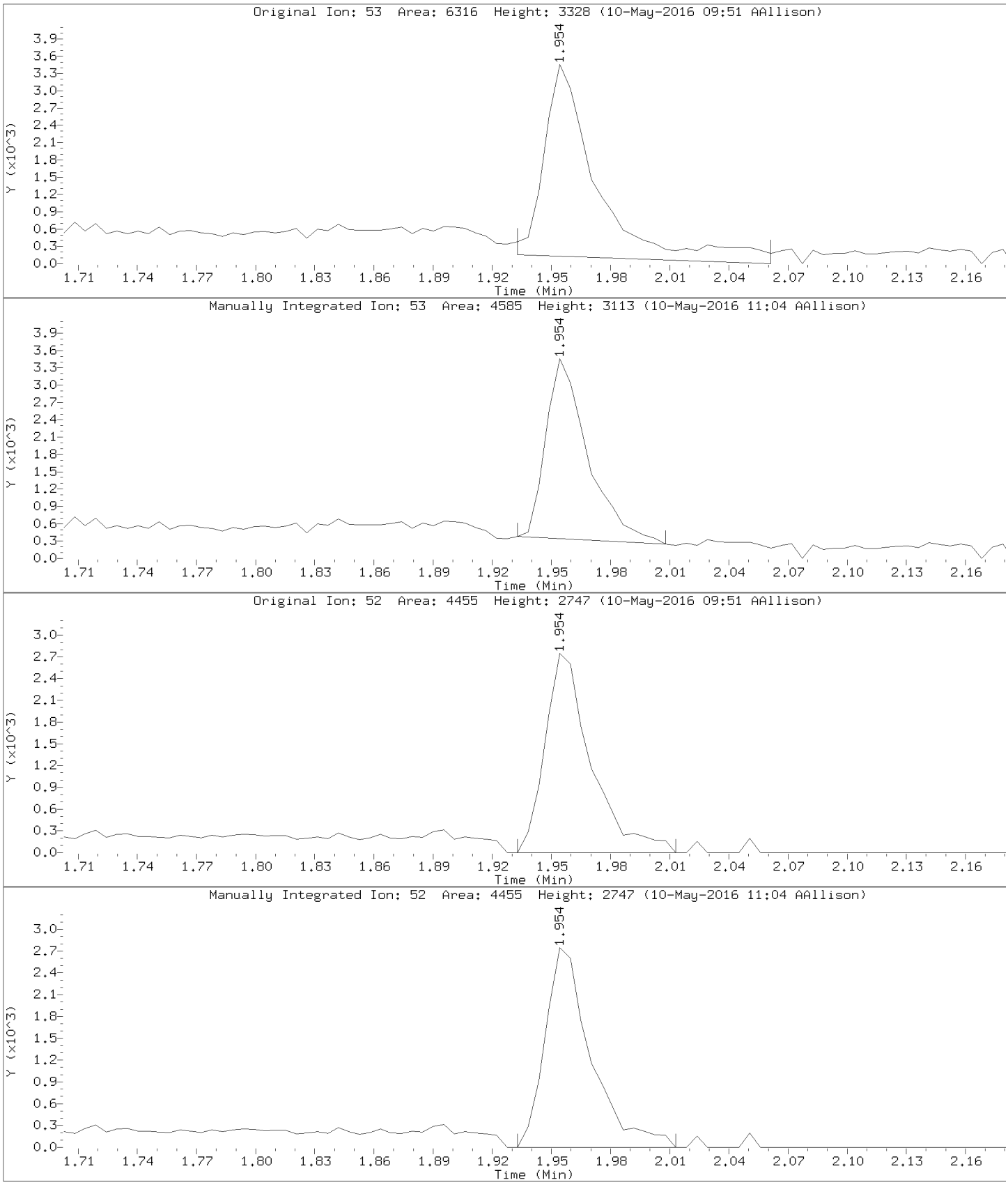






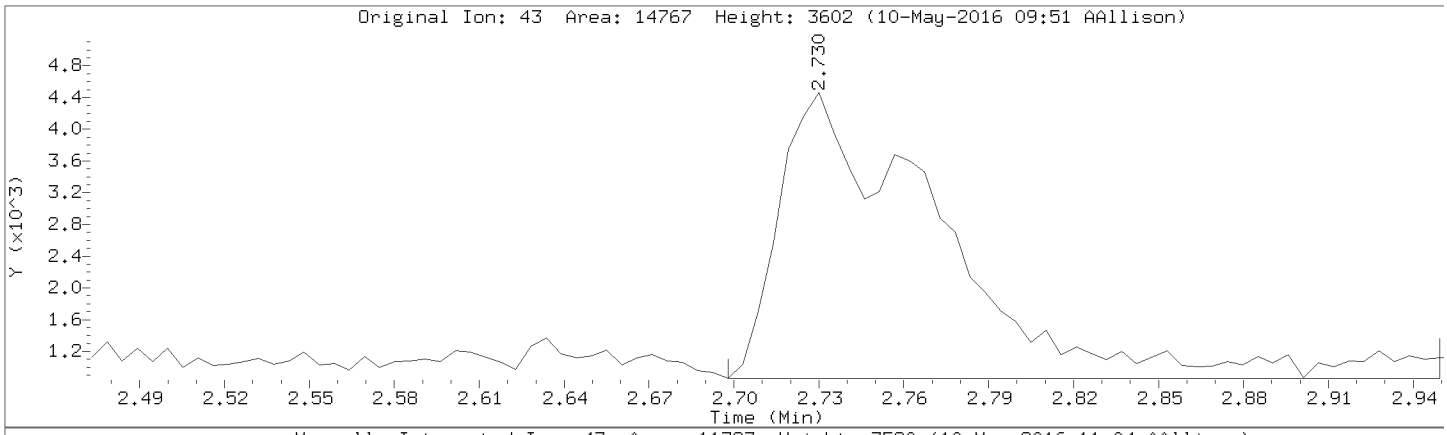
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

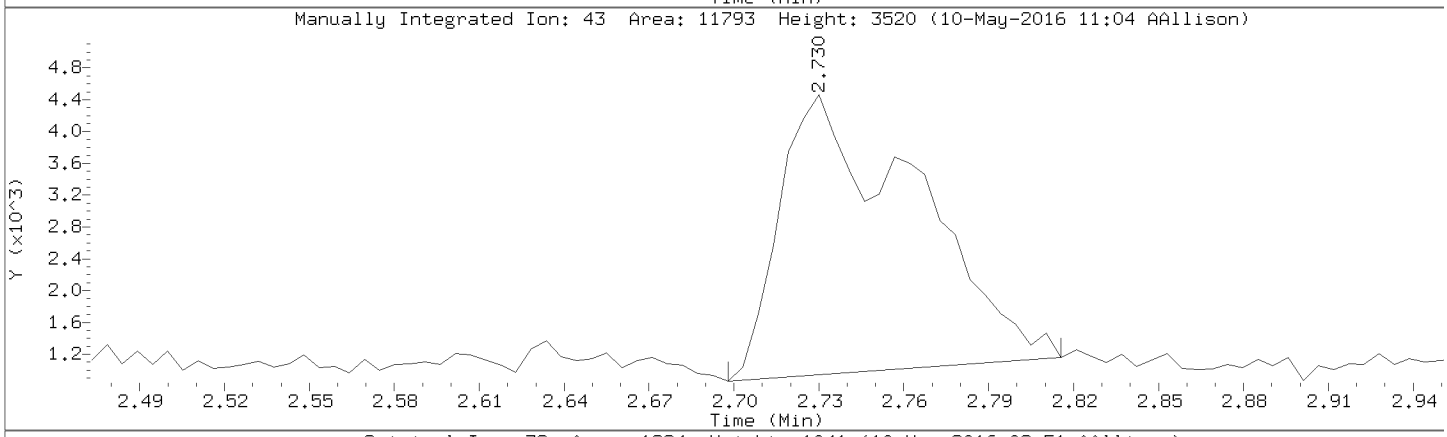
Compound: Acrylonitrile Review Code: GT
CAS Number: 107-13-1

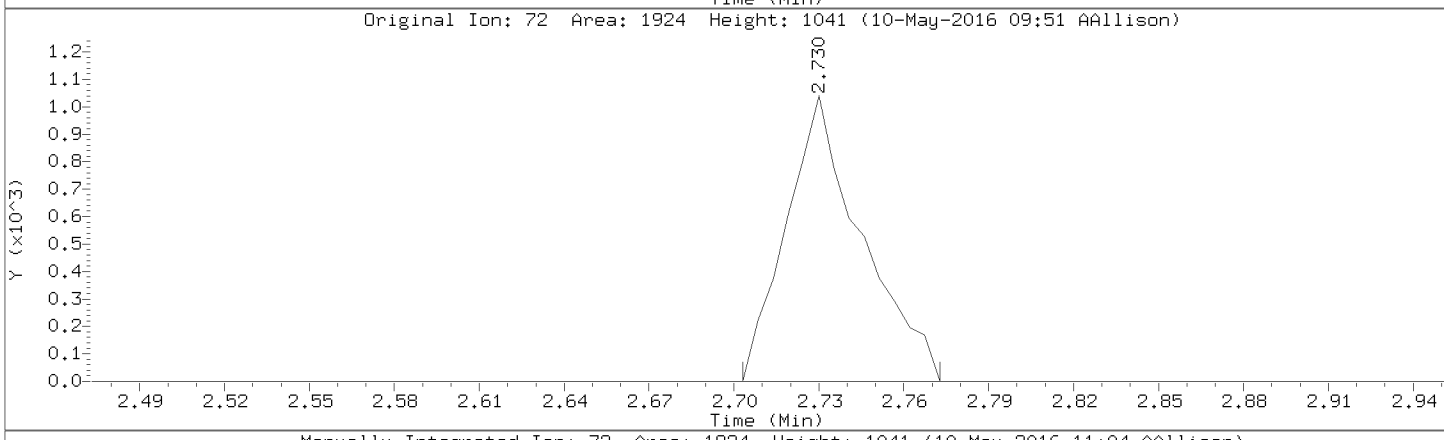


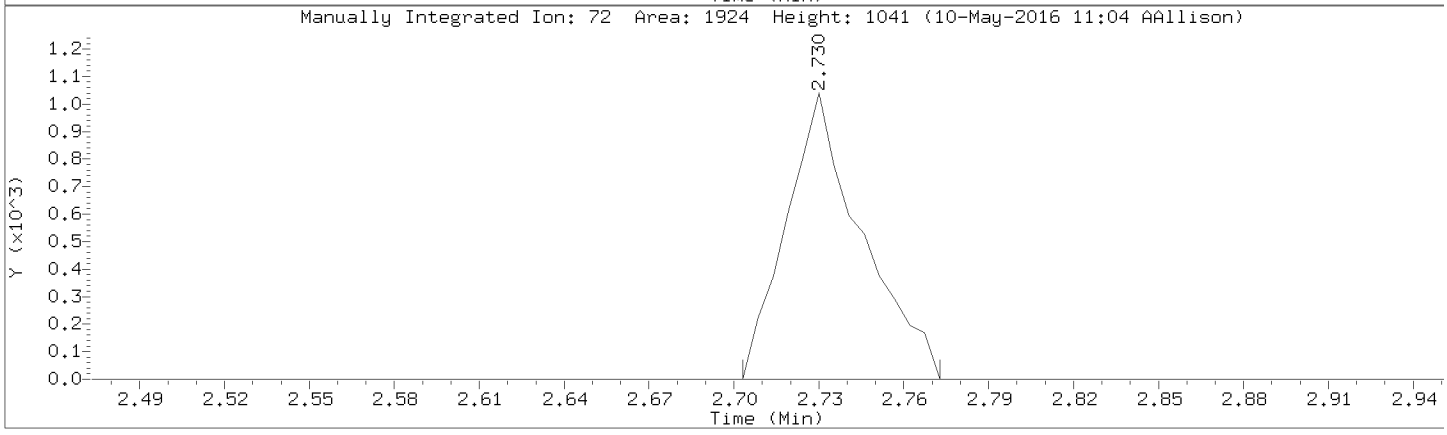
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 2-Butanone Review Code: GT
CAS Number: 78-93-3

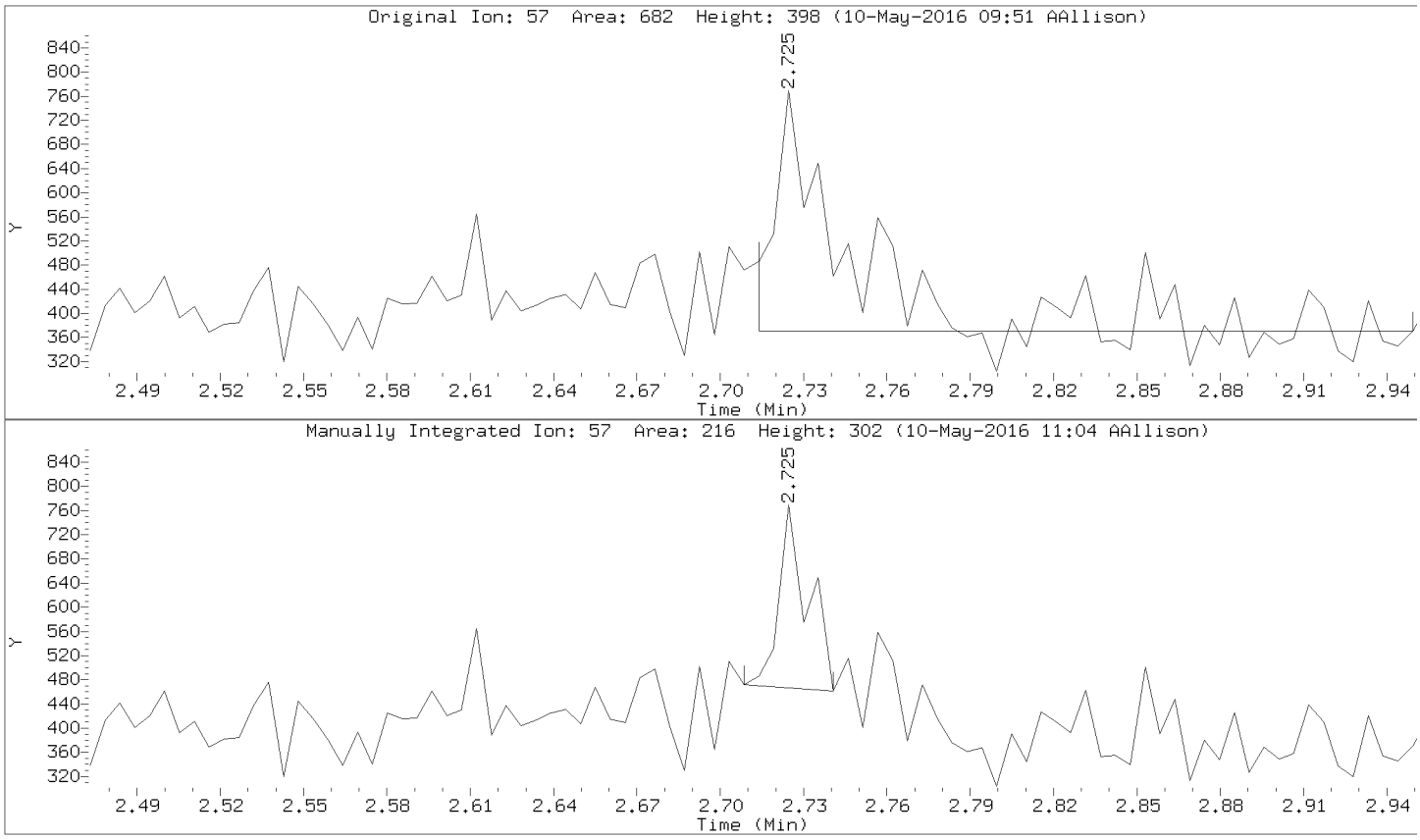






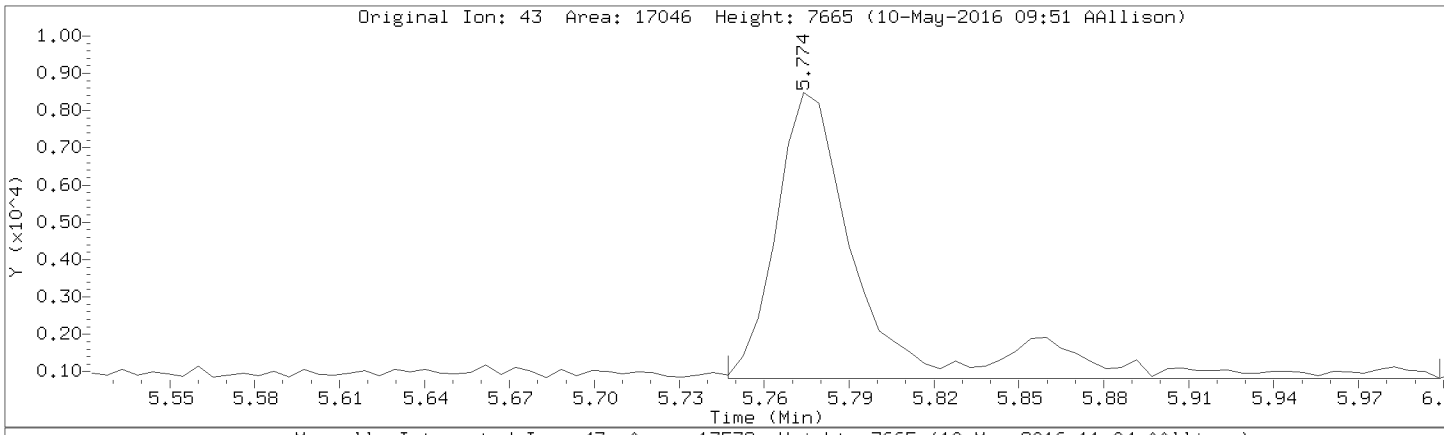


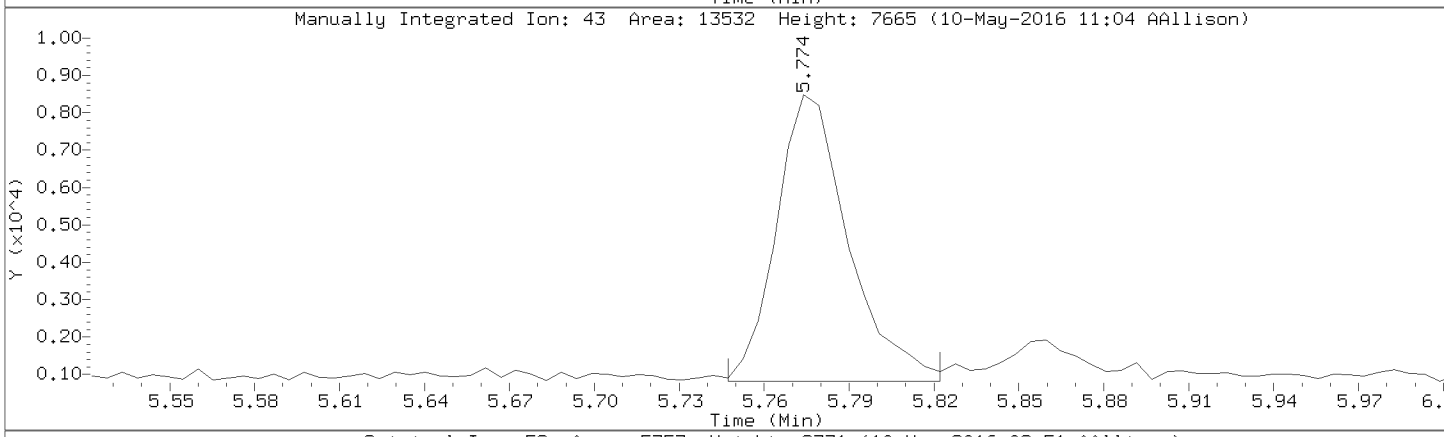
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

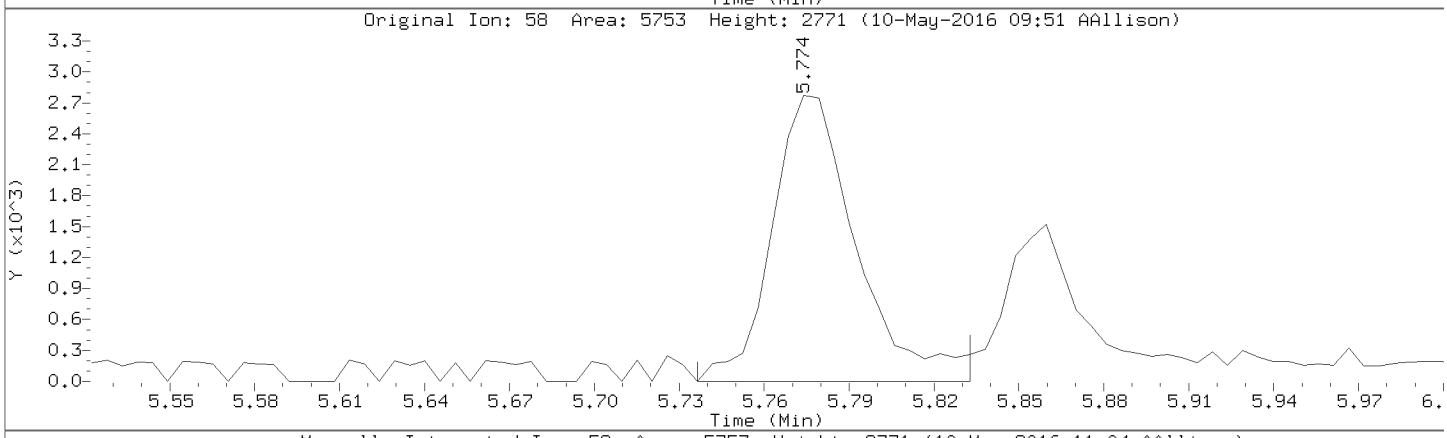


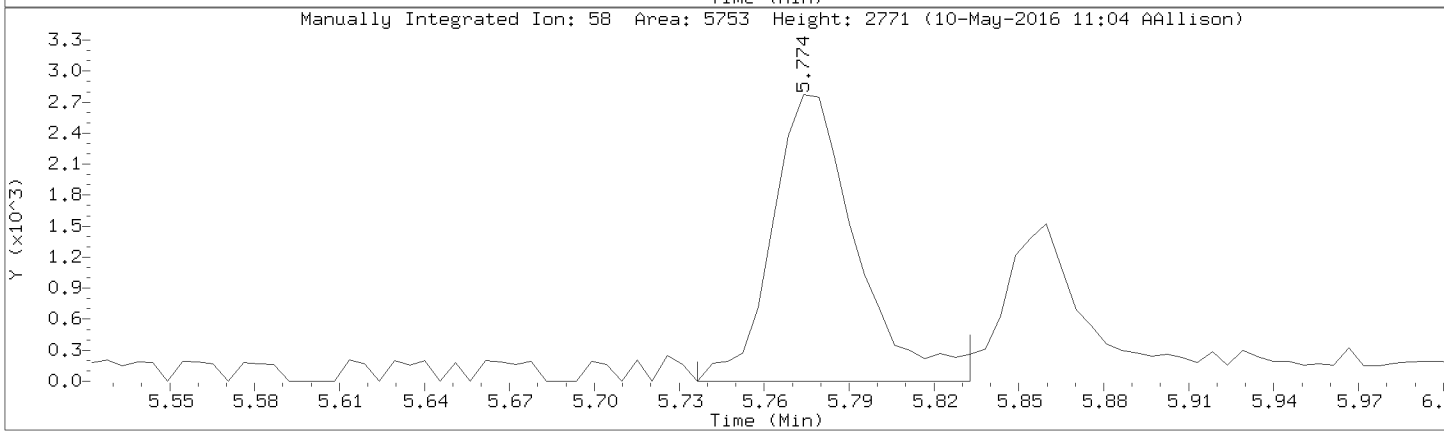
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 4-Methyl-2-Pentanone Review Code: GT
CAS Number: 108-10-1

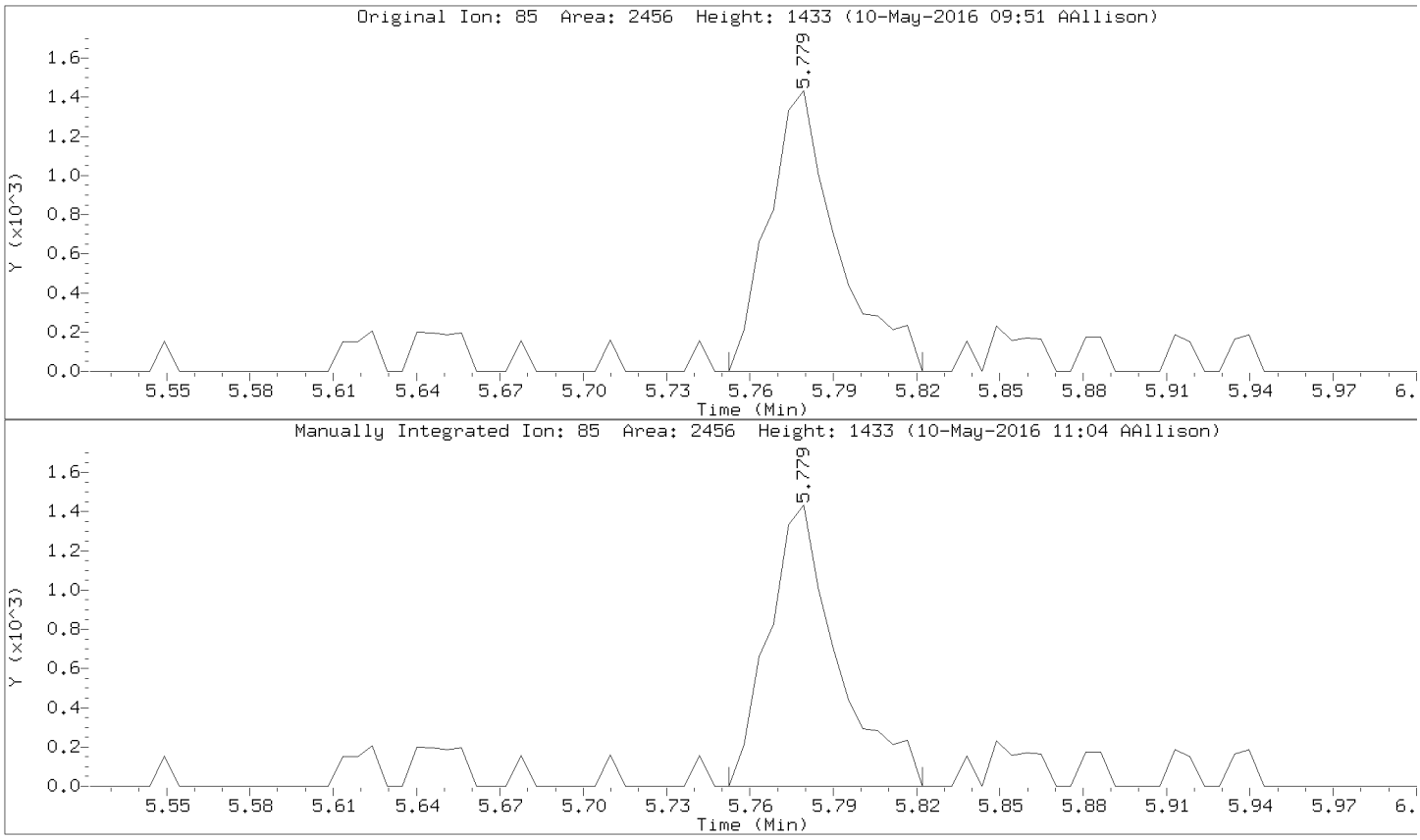






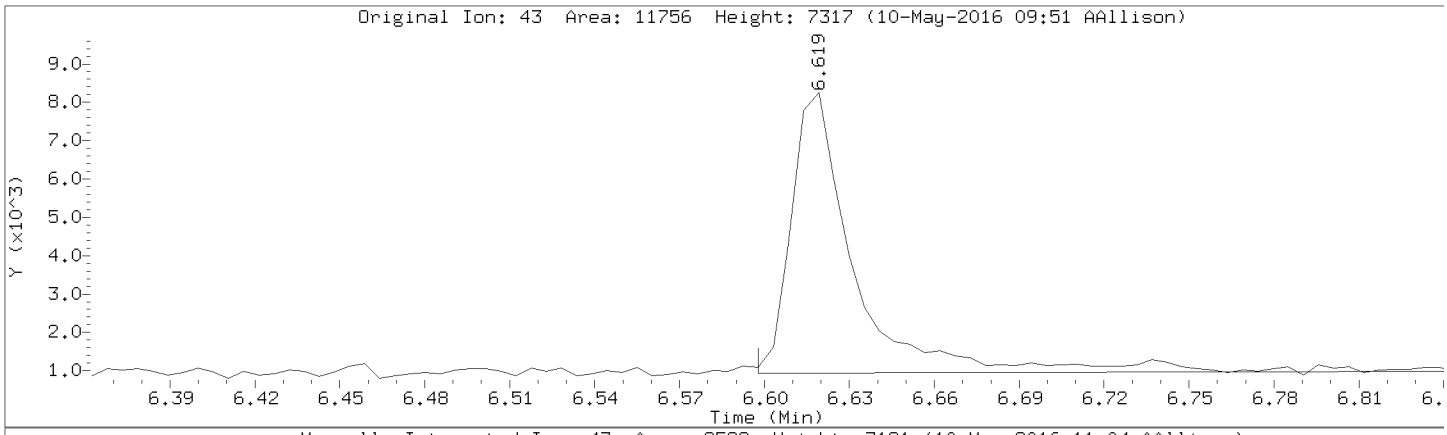


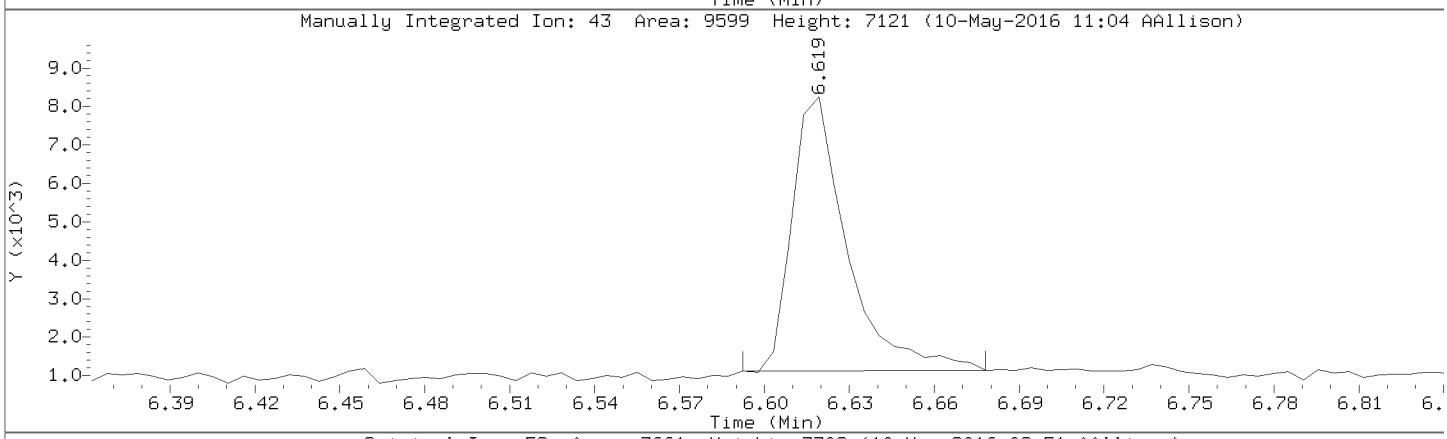
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

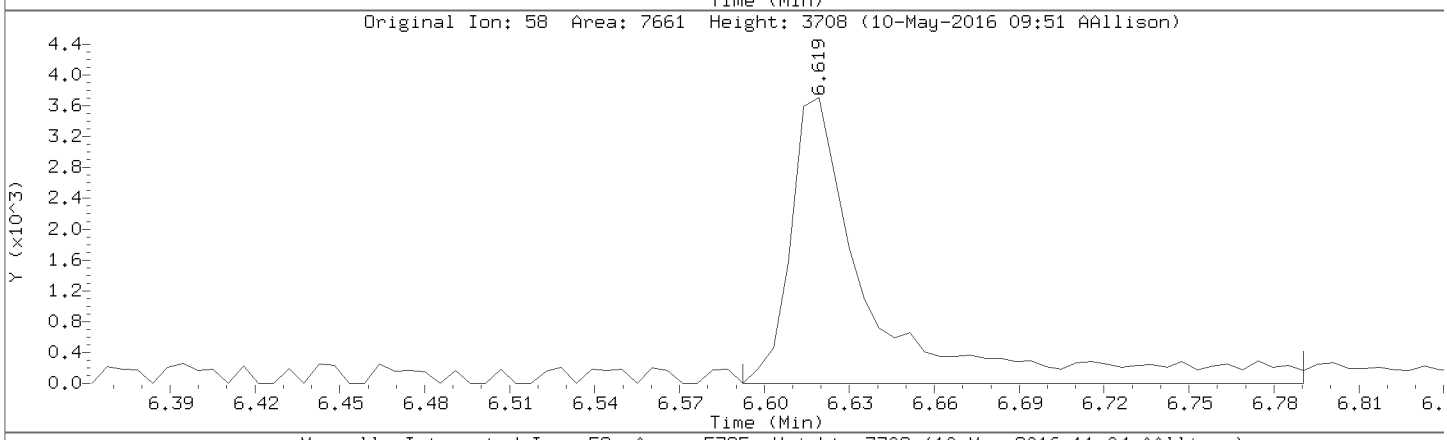


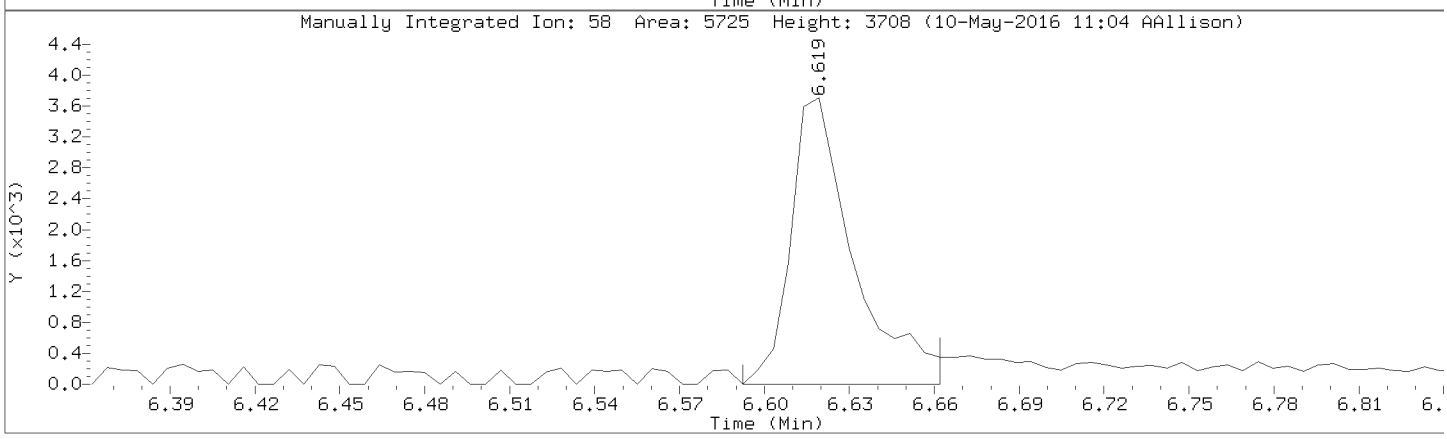
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 2-Hexanone Review Code: GT
CAS Number: 591-78-6

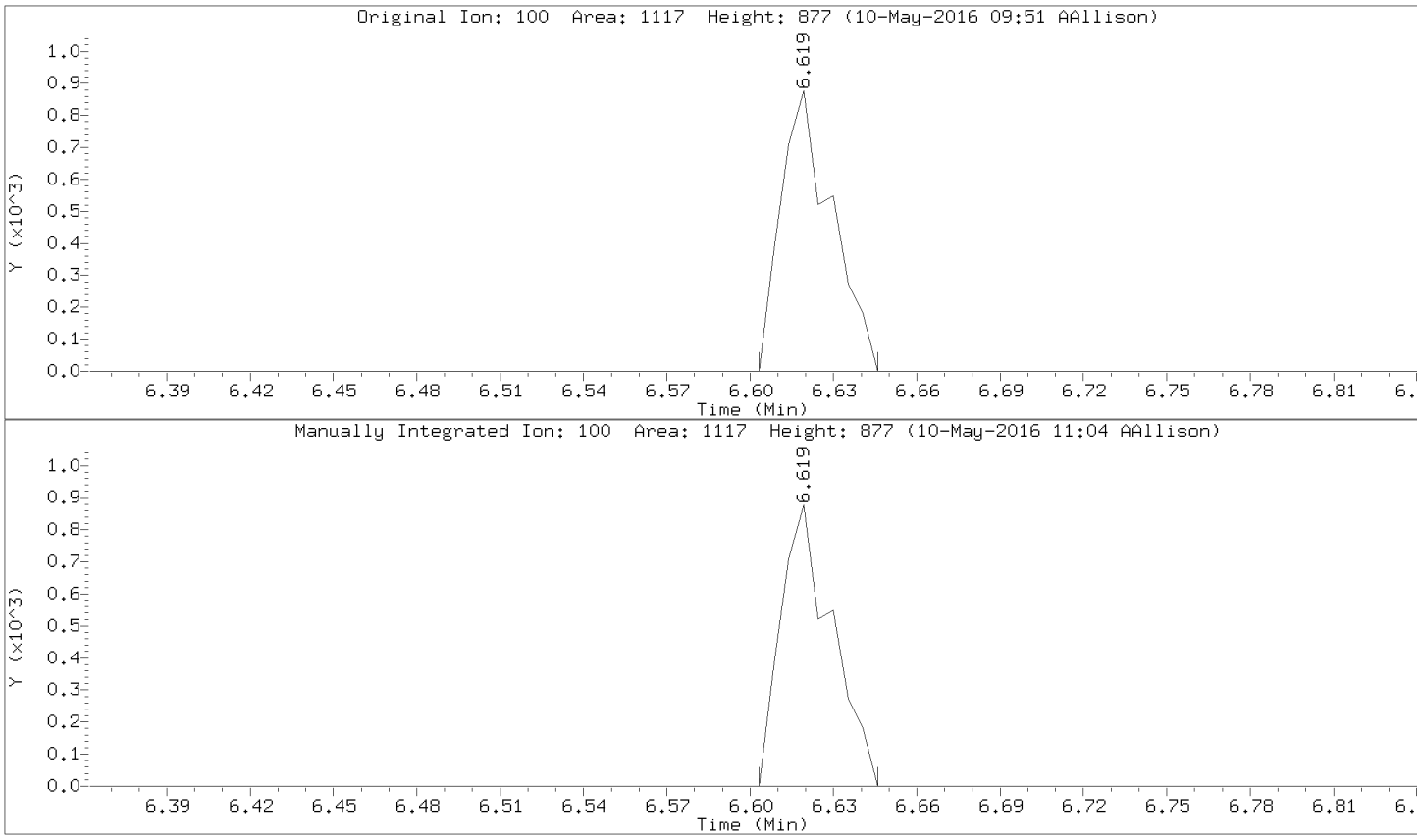






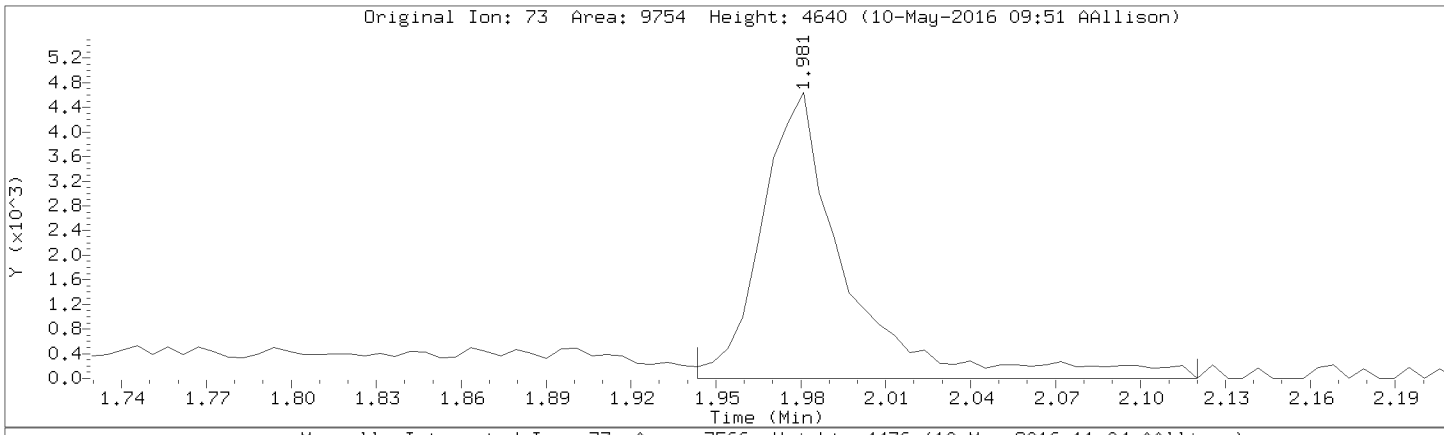


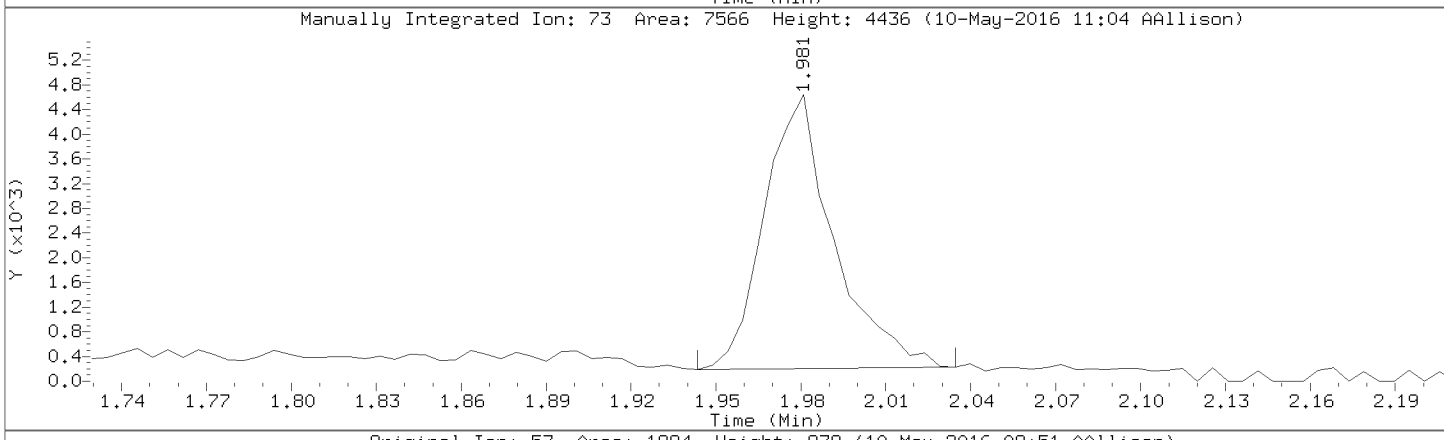
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

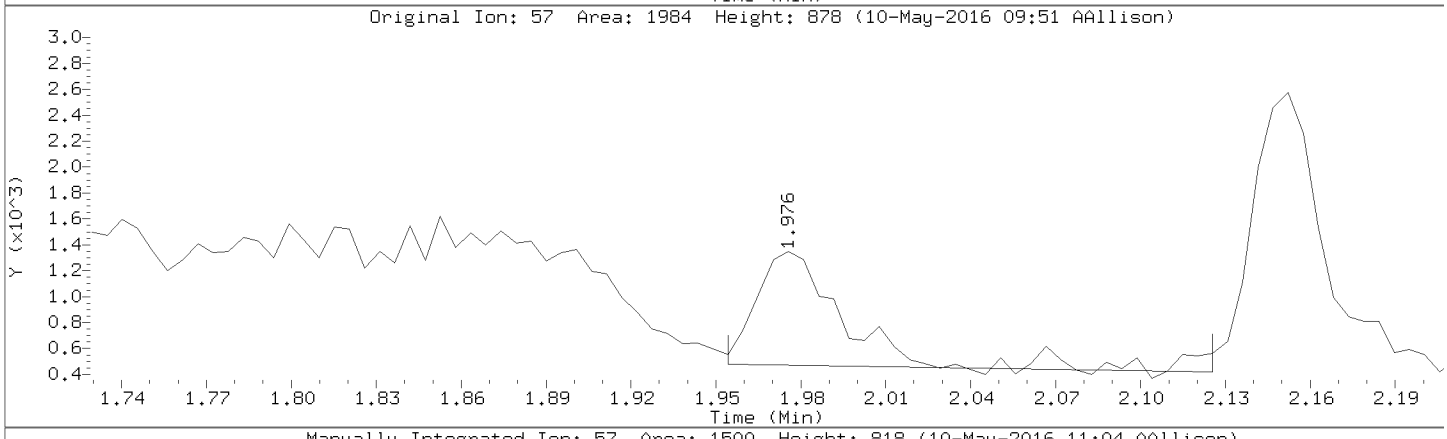


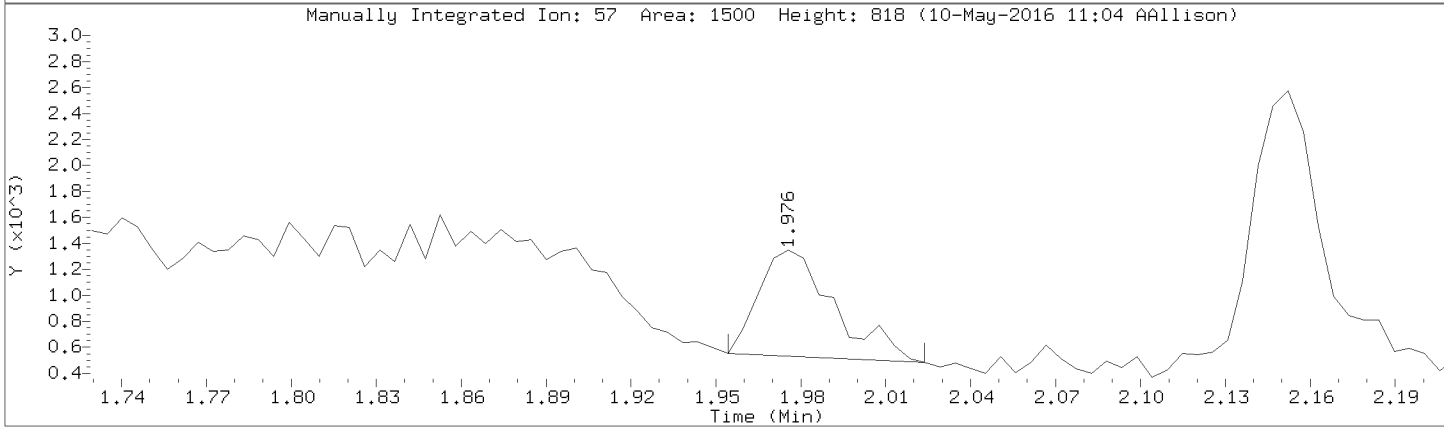
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methyl-tert-butyl ether Review Code: GT
CAS Number: 1634-04-4



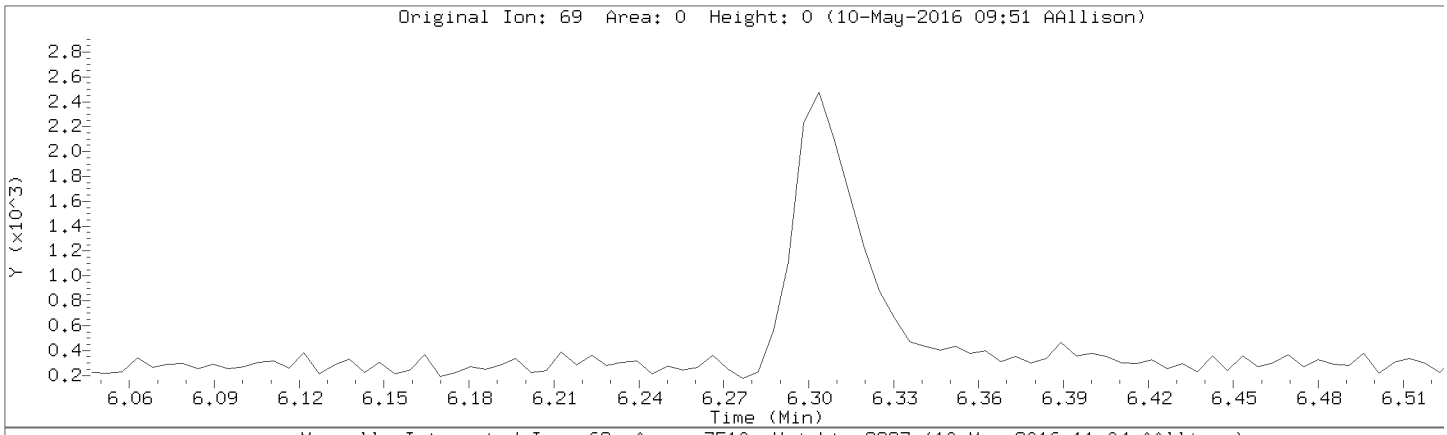


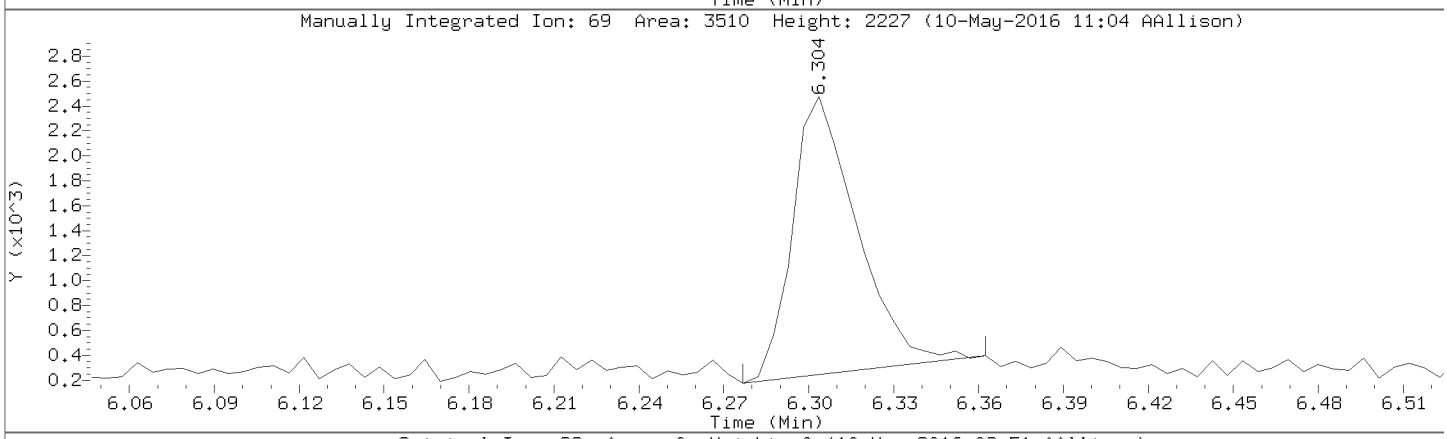


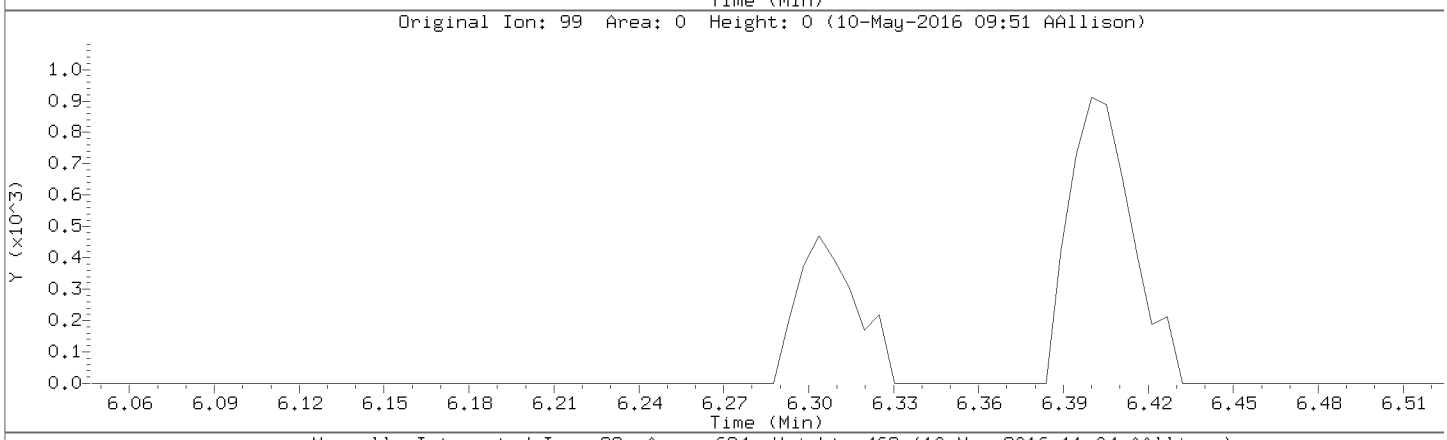


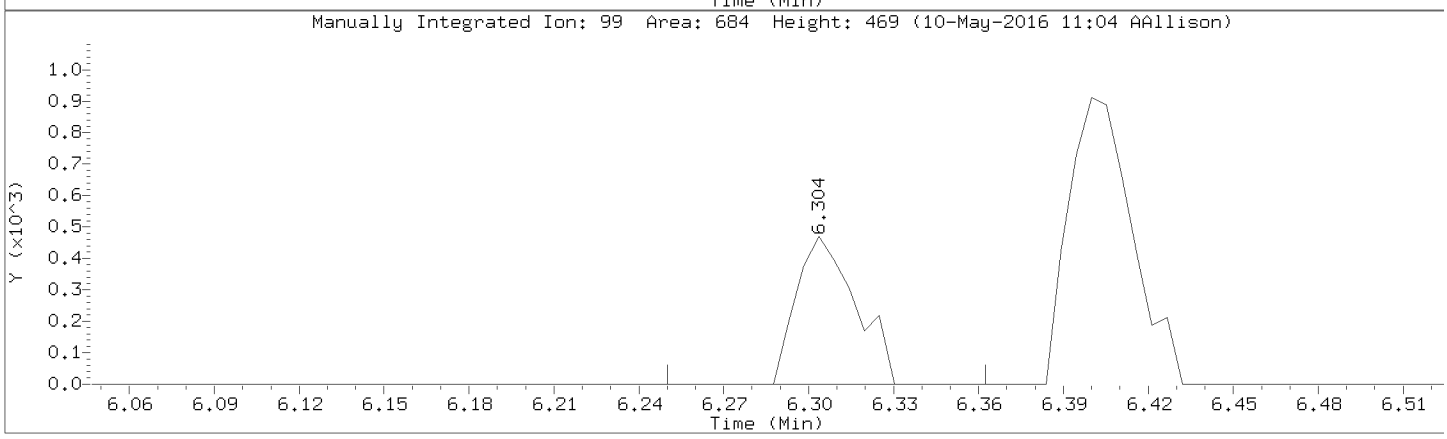
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

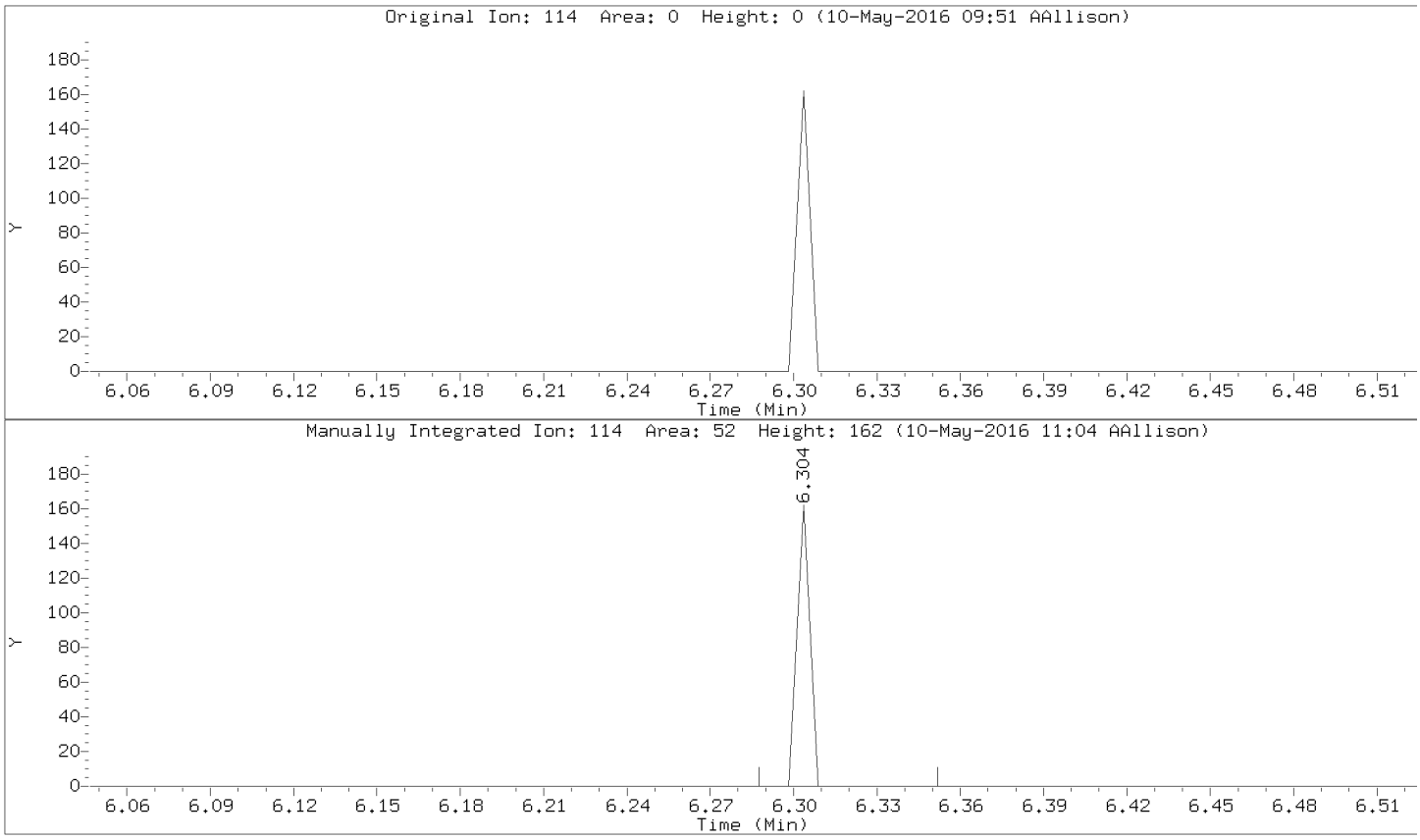






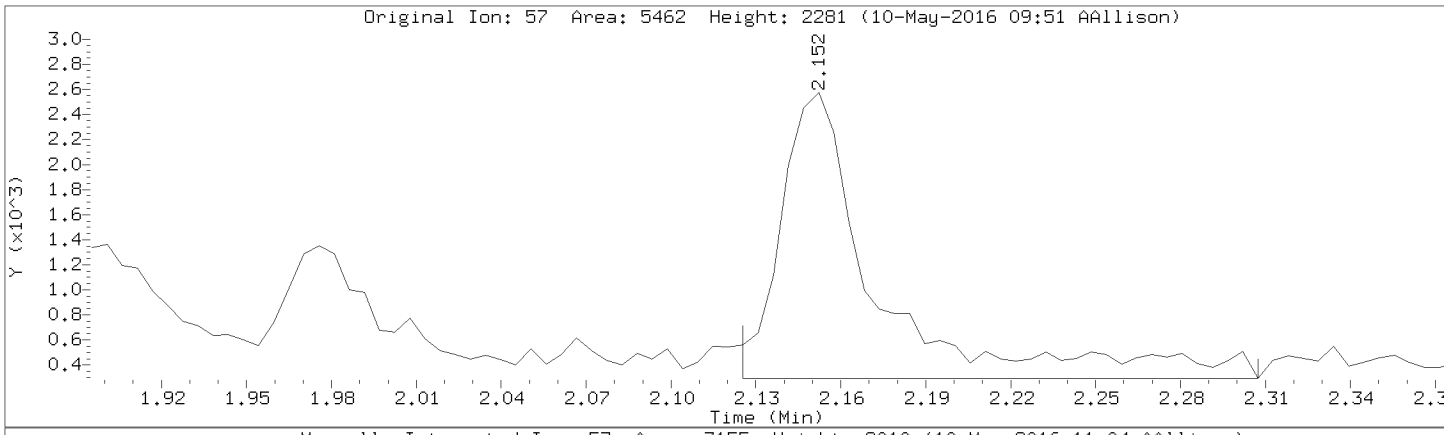


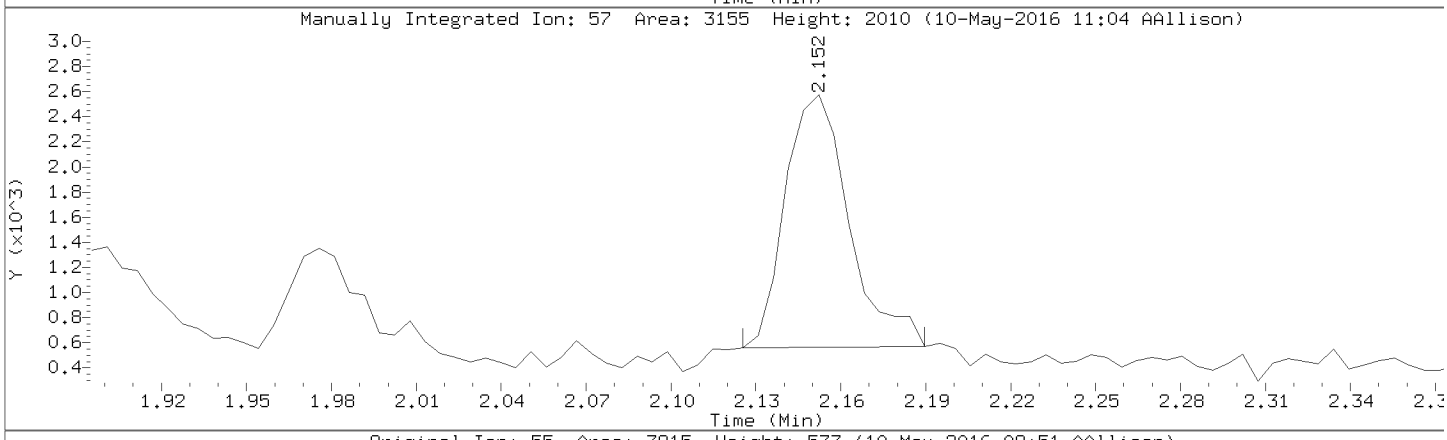
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

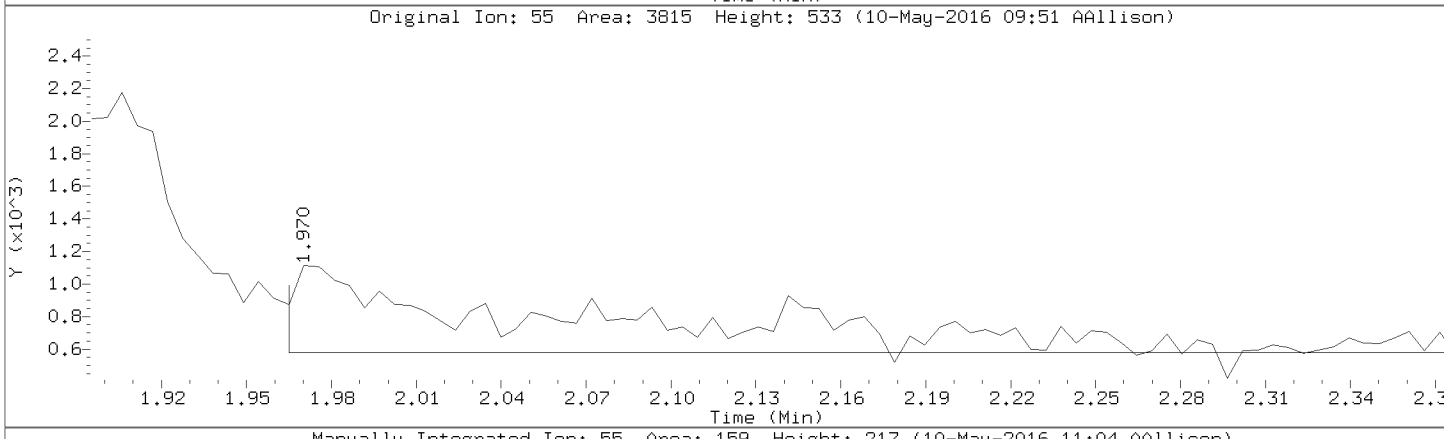


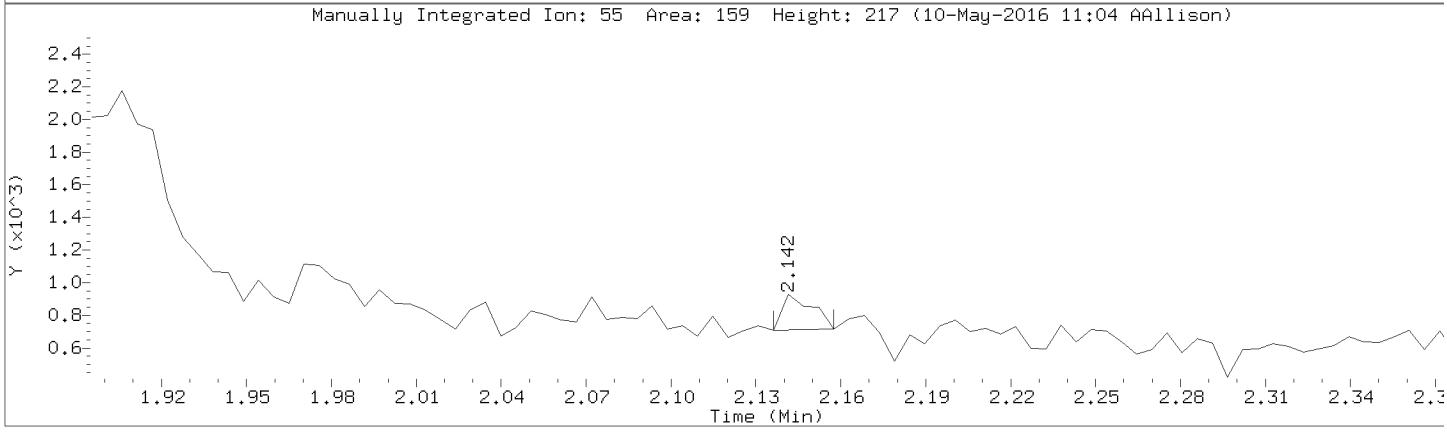
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: n-Hexane Review Code: GT
CAS Number:



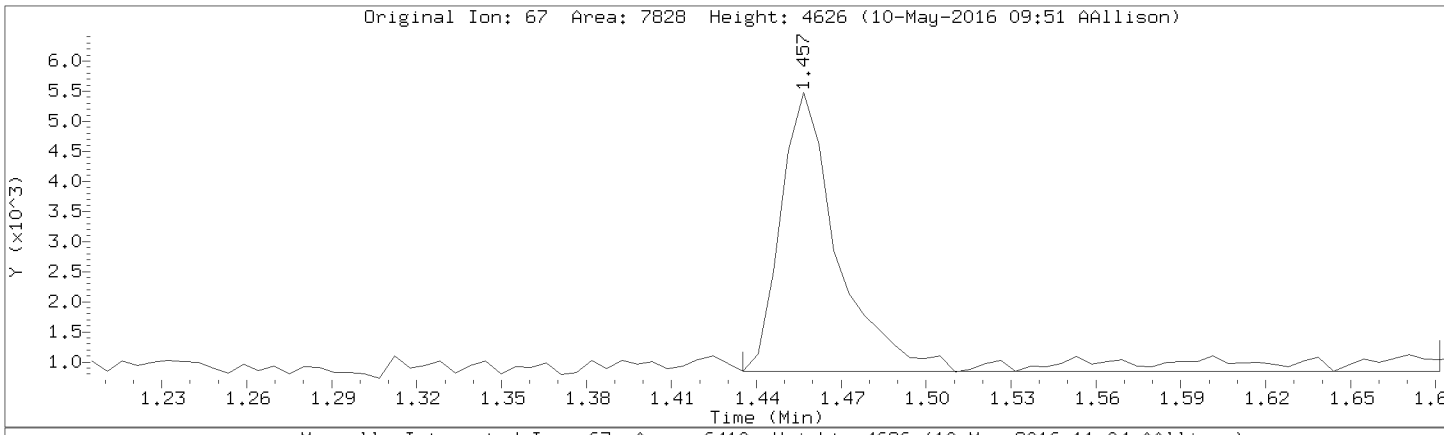


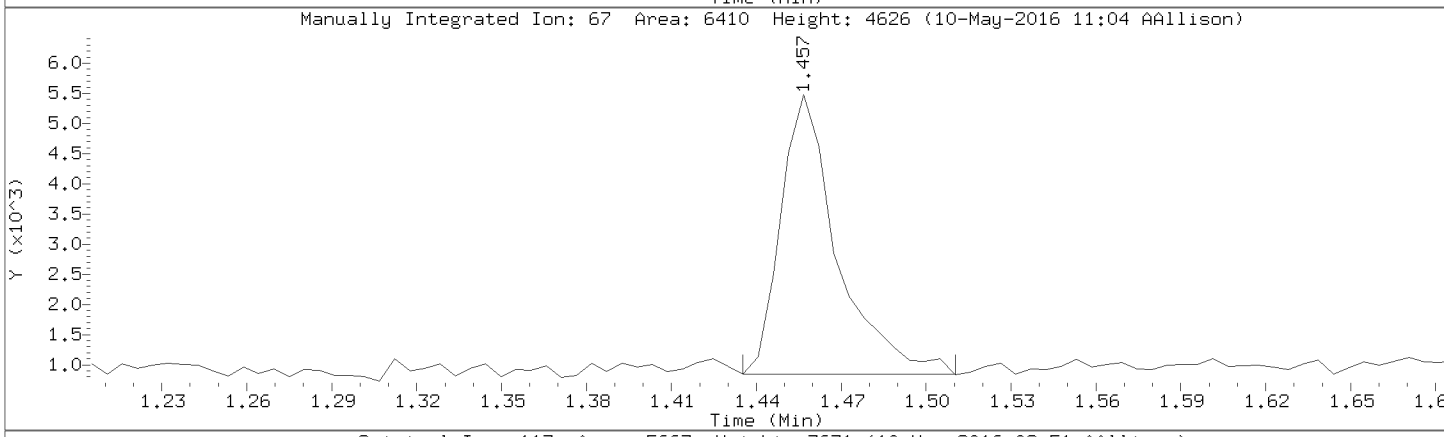


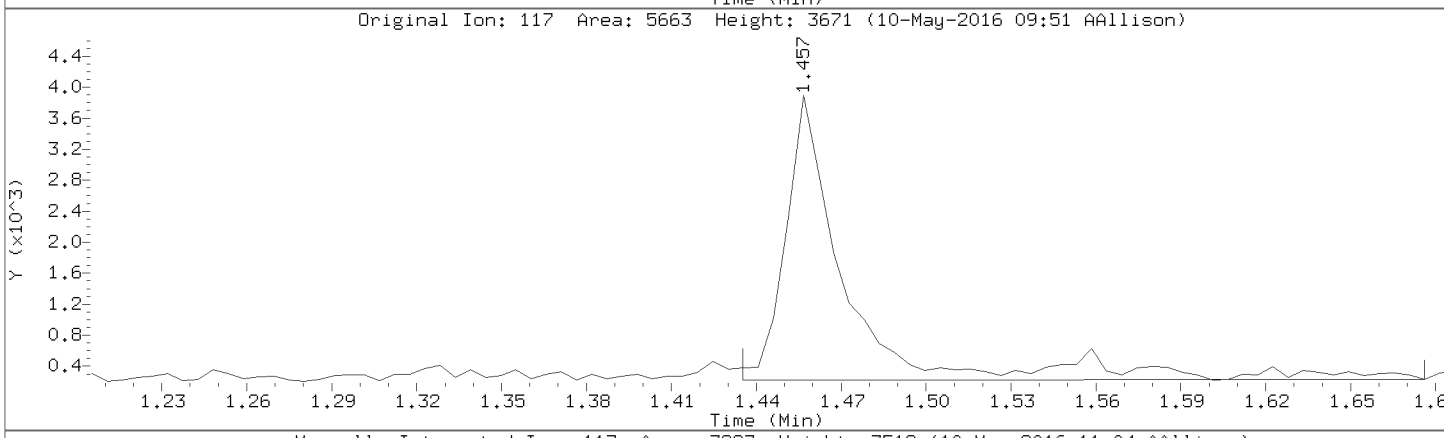


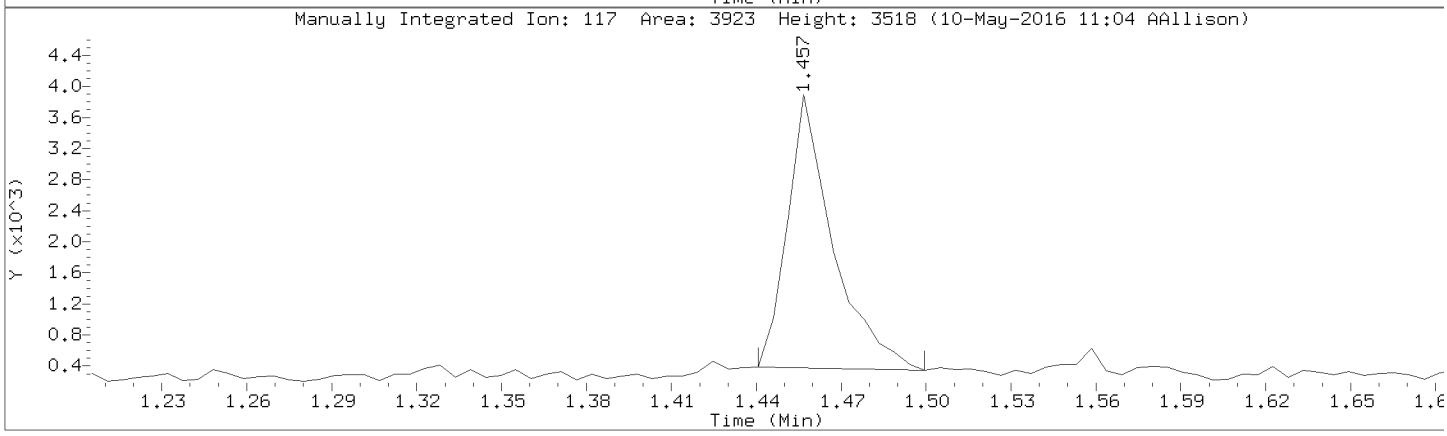
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,2-dichlorotrifluoroethane Review Code: GT
CAS Number: 354-23-4

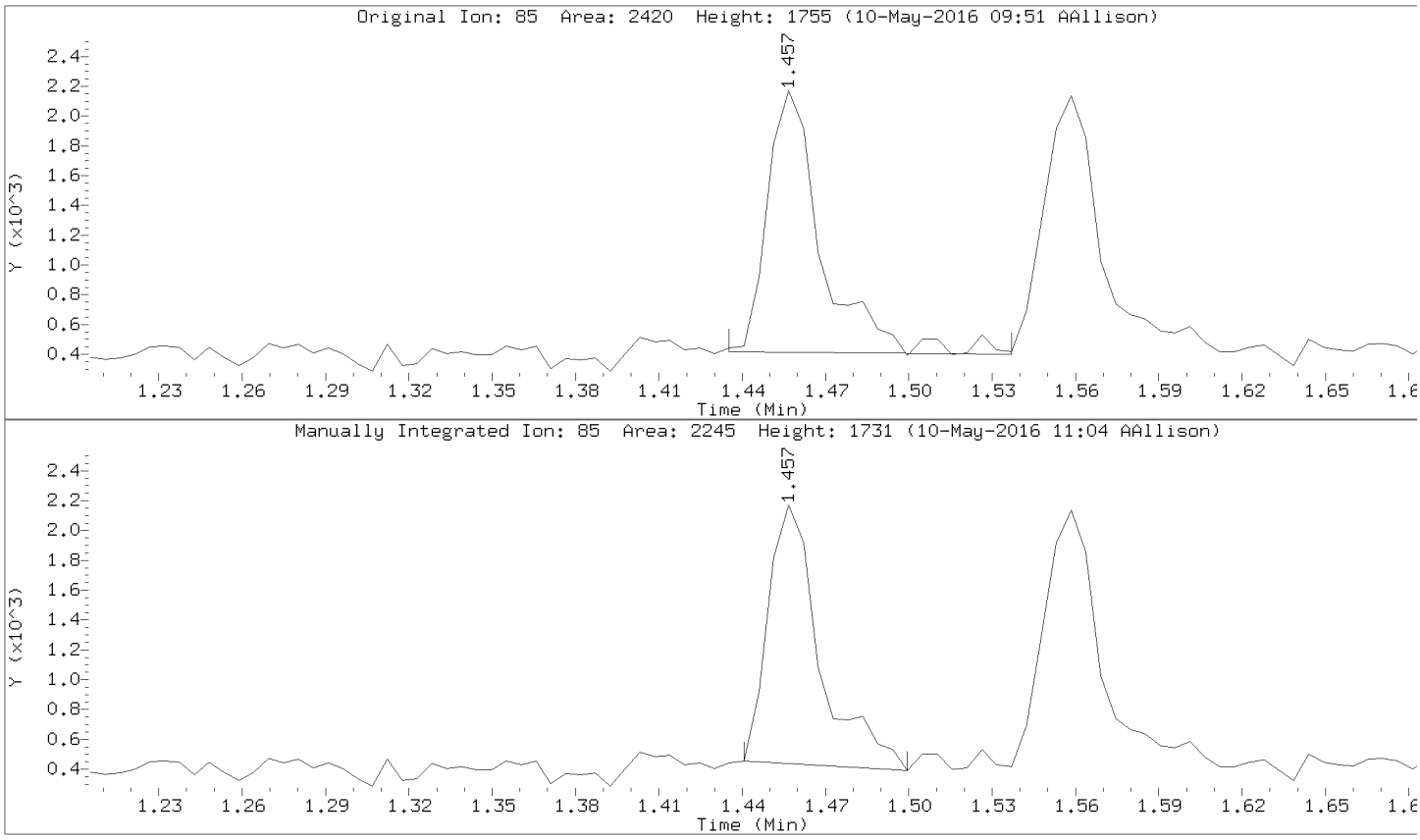






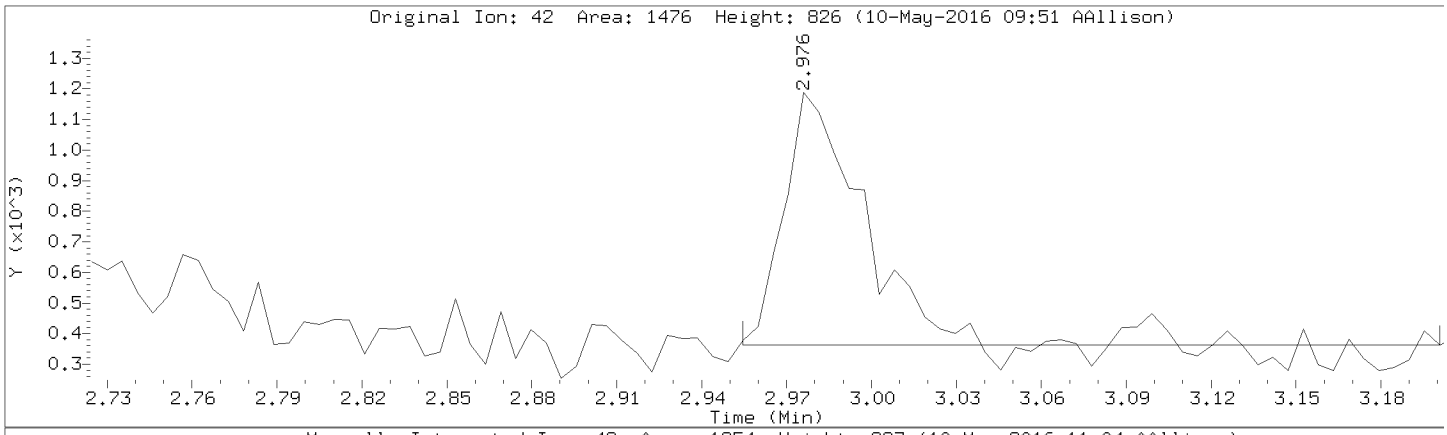


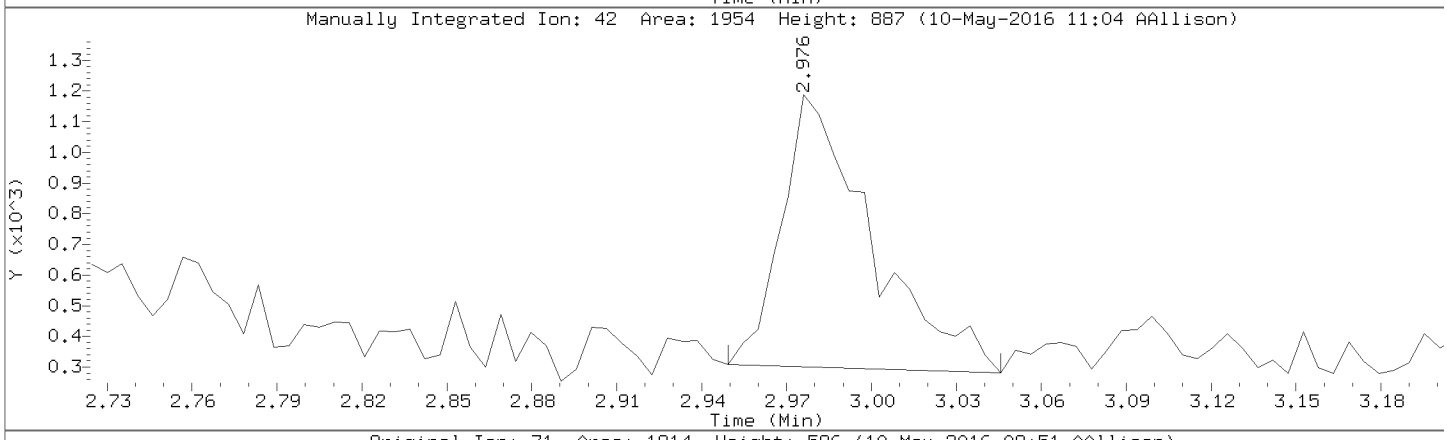
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

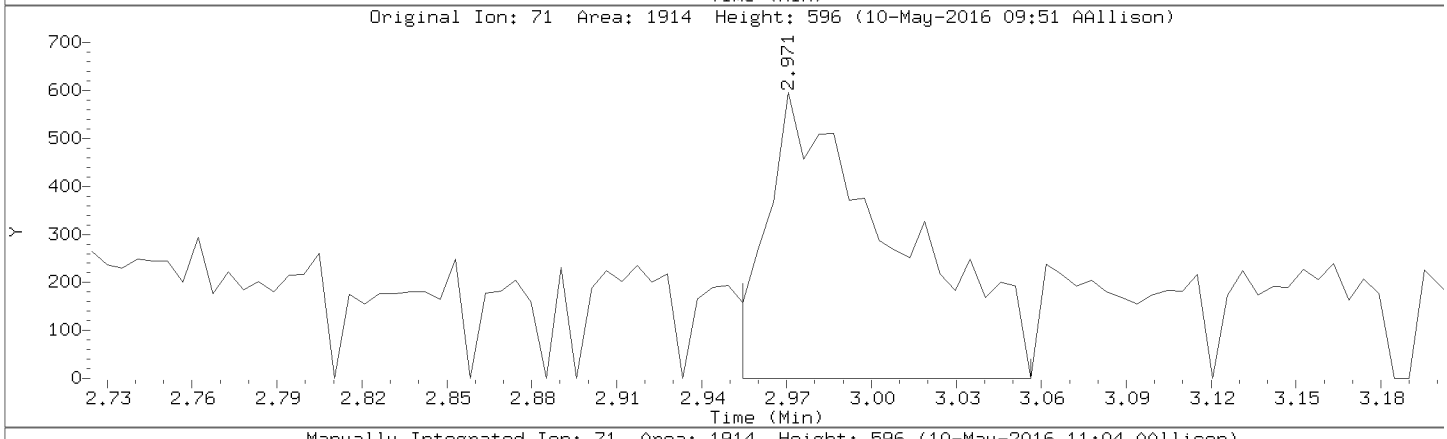


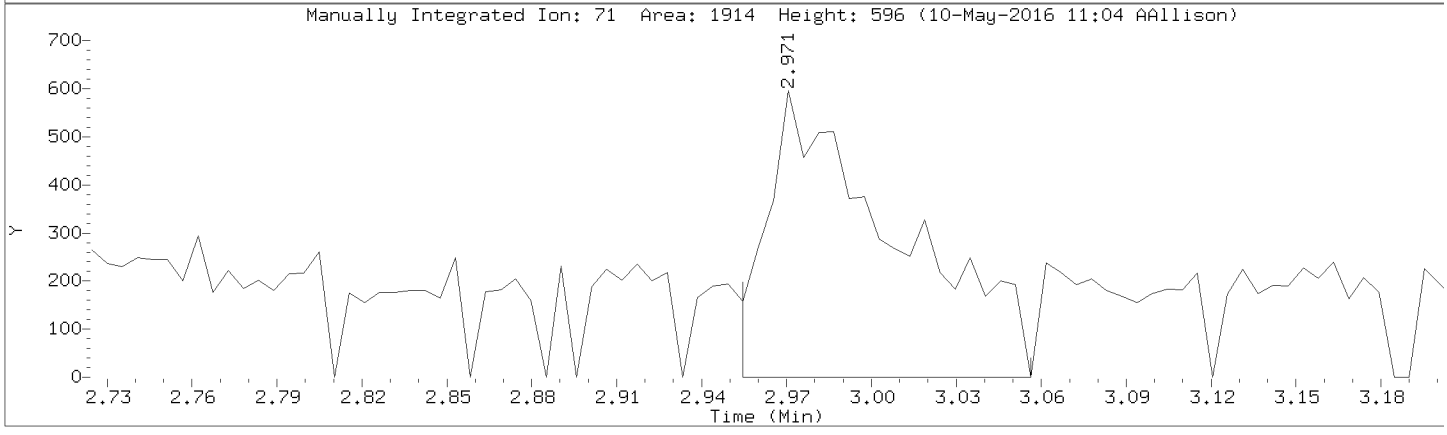
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Tetrahydrofuran Review Code: GT
CAS Number:

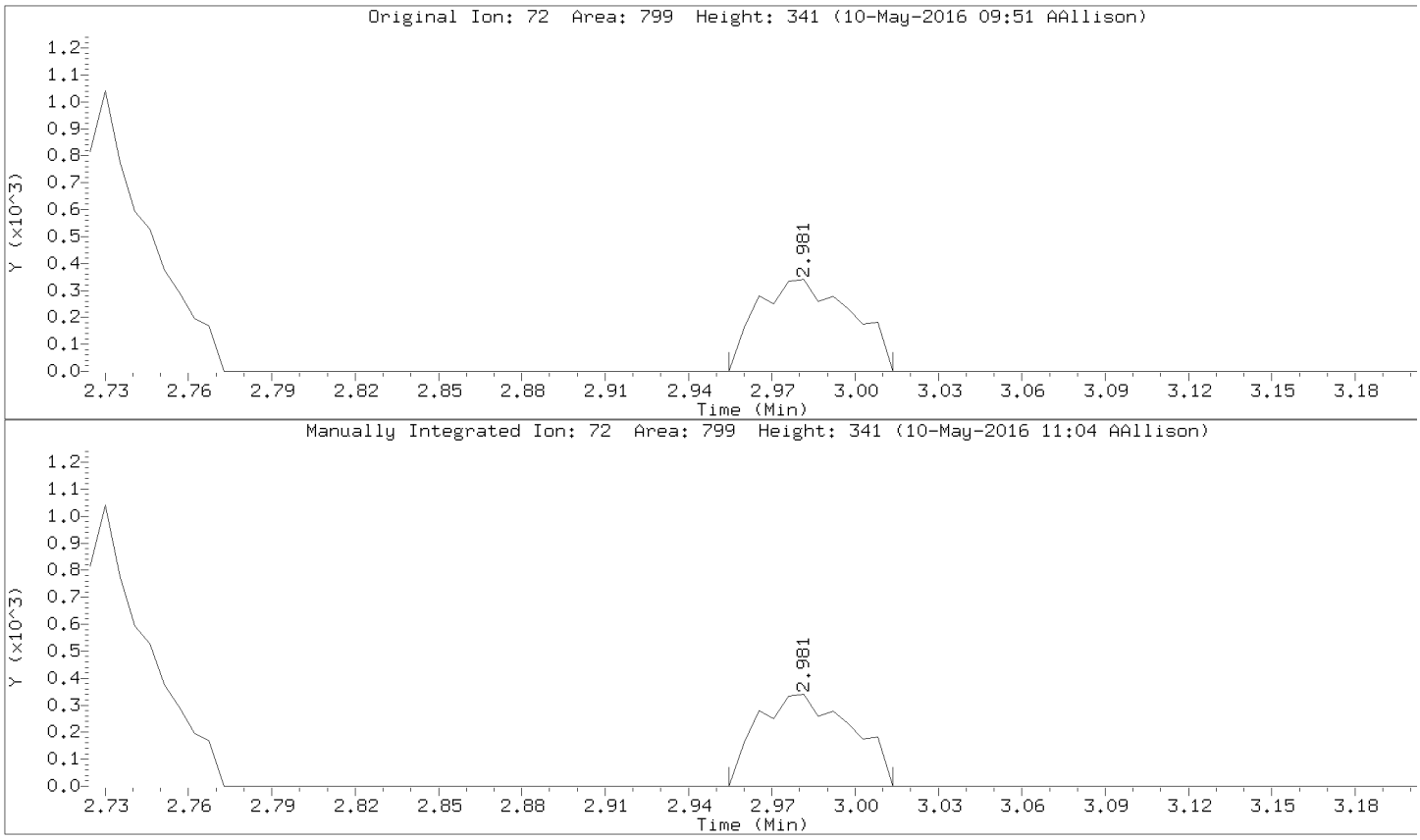






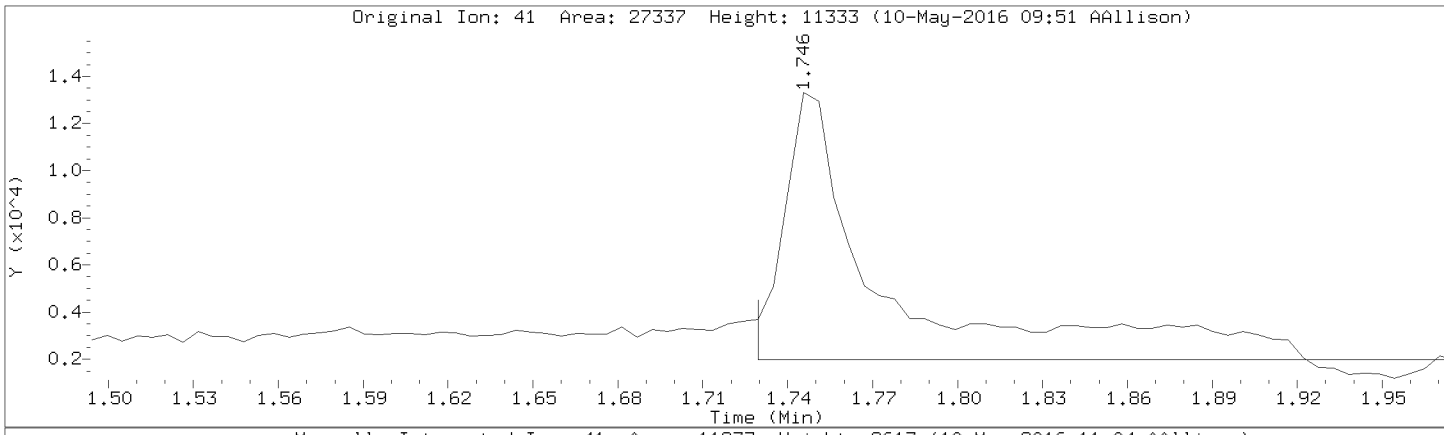


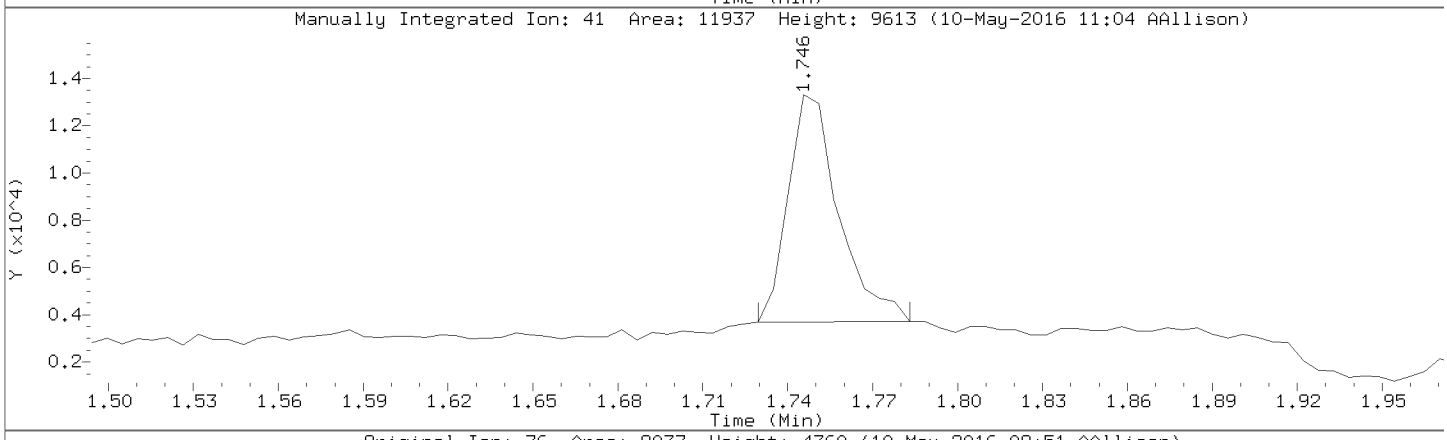
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

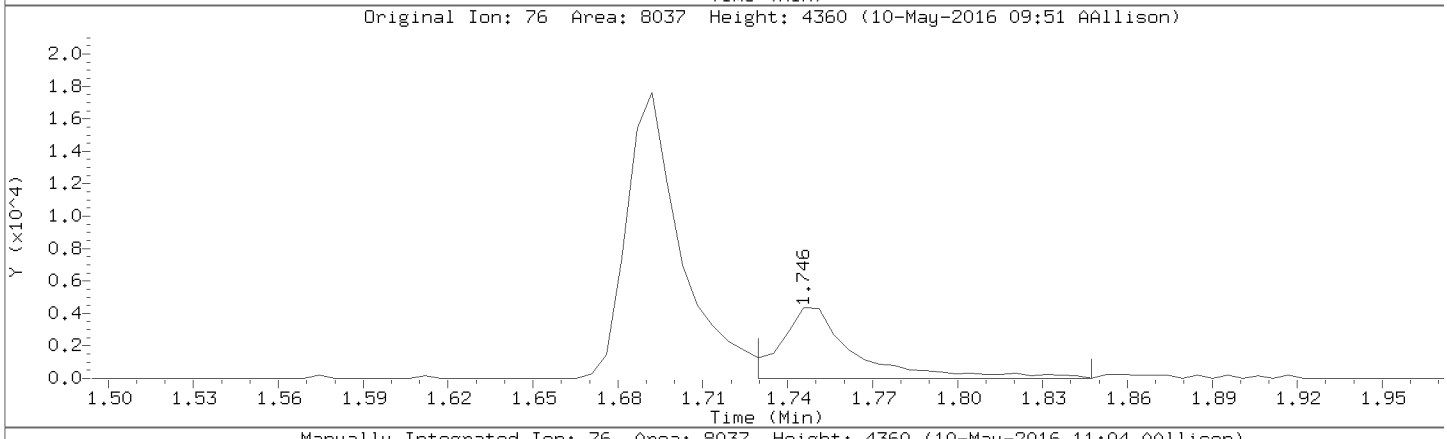


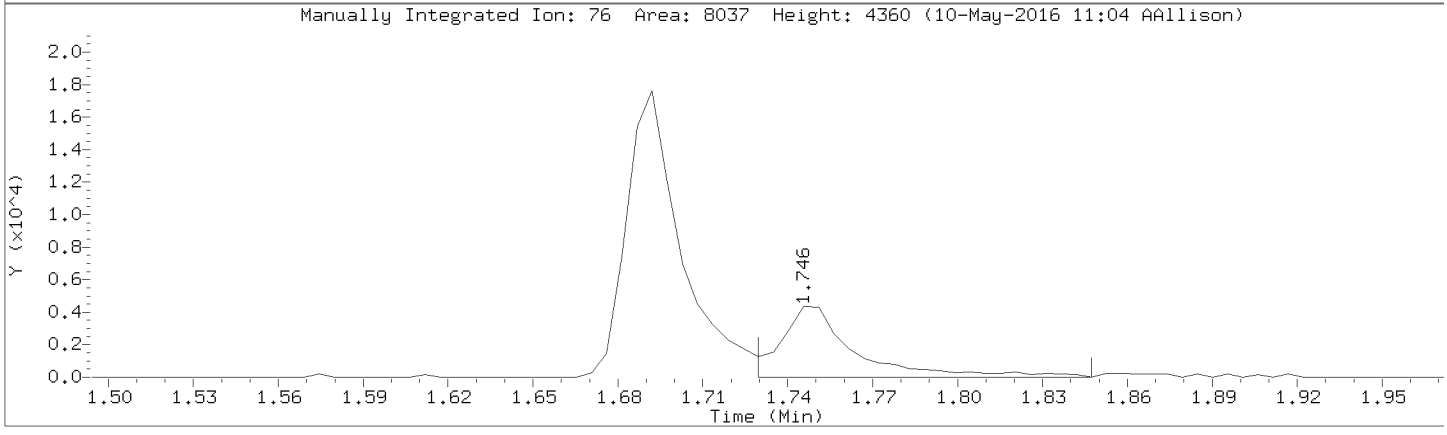
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: allyl chloride Review Code: GT
CAS Number: 107-05-1



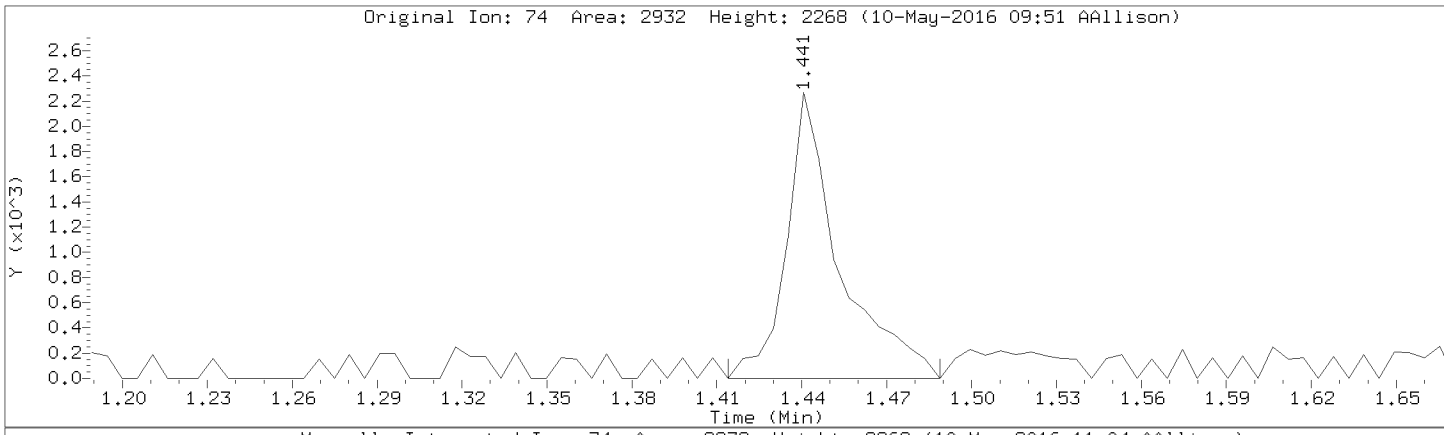


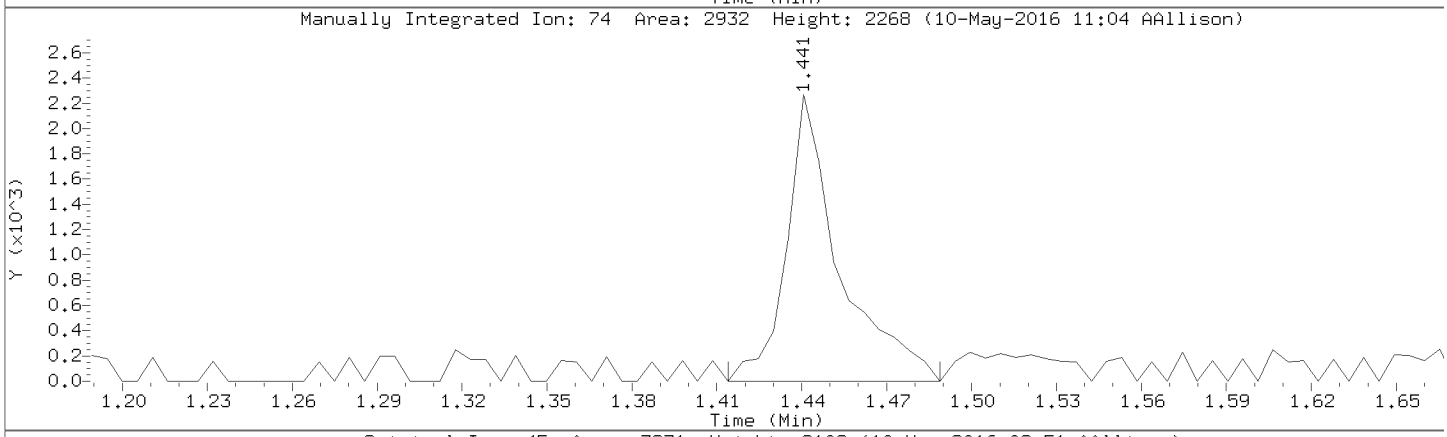


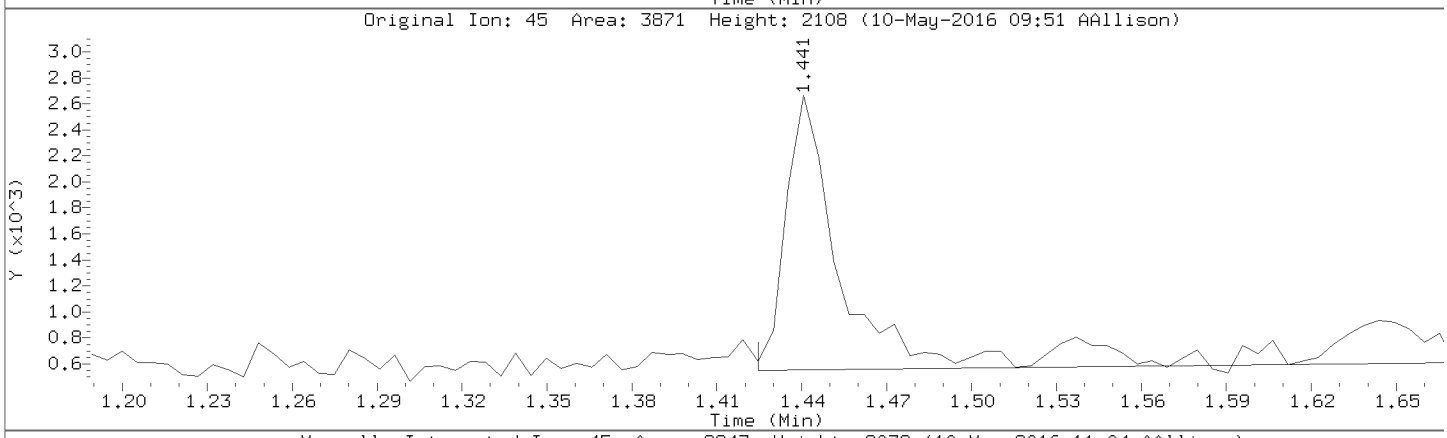


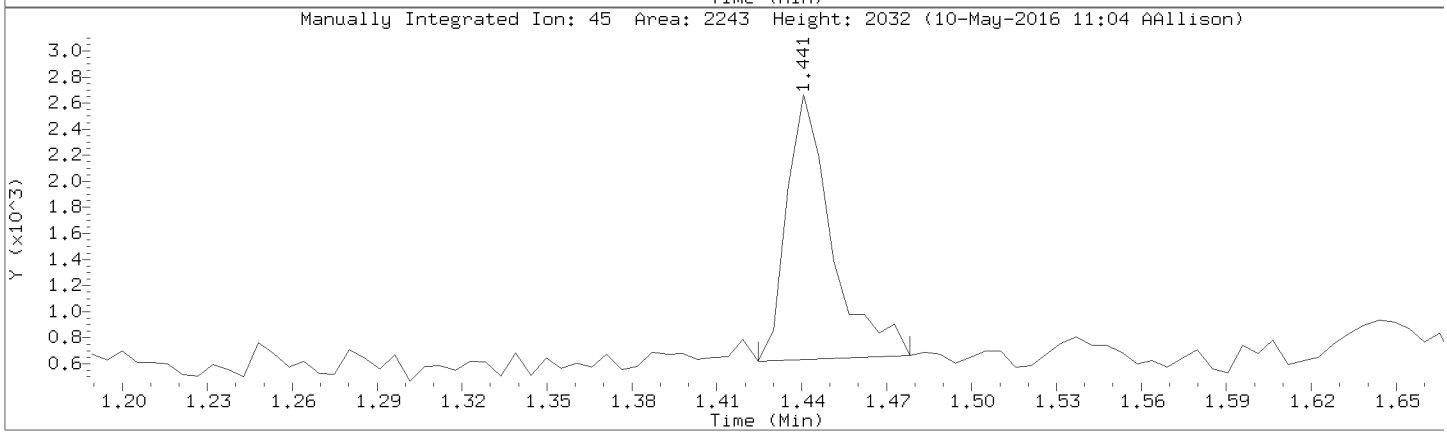
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Diethyl ether Review Code: GT
CAS Number: 60-29-7

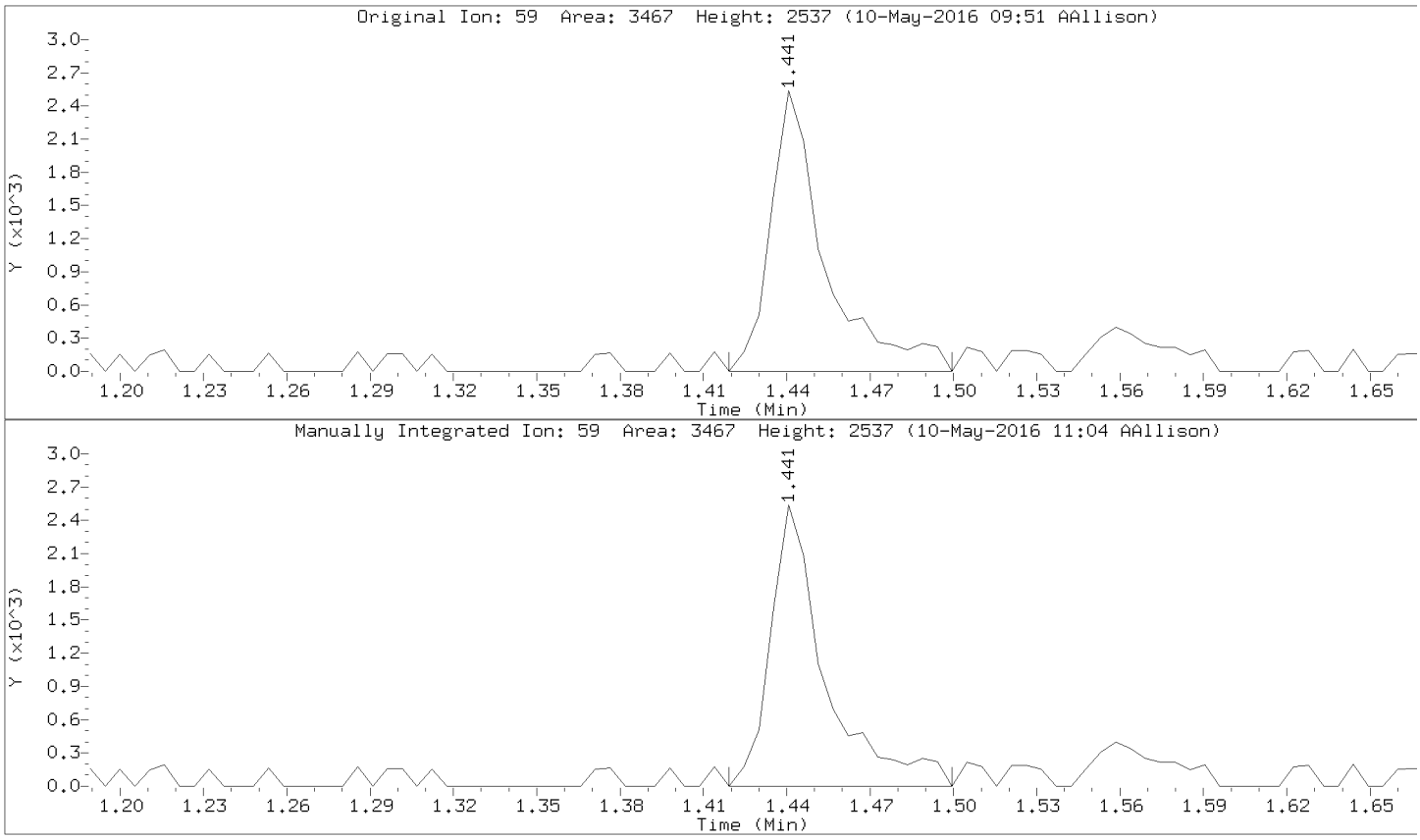






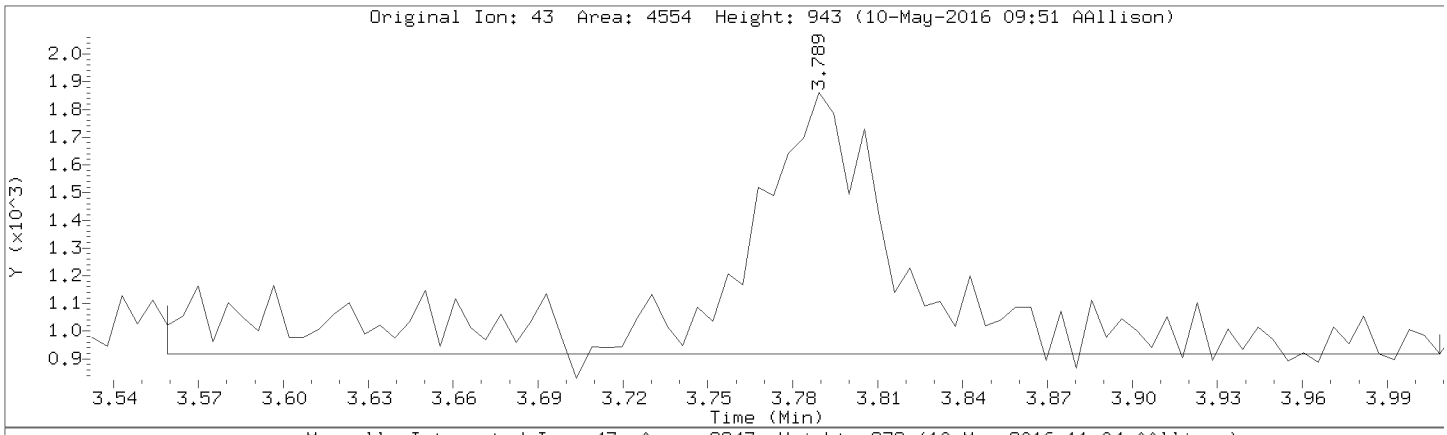


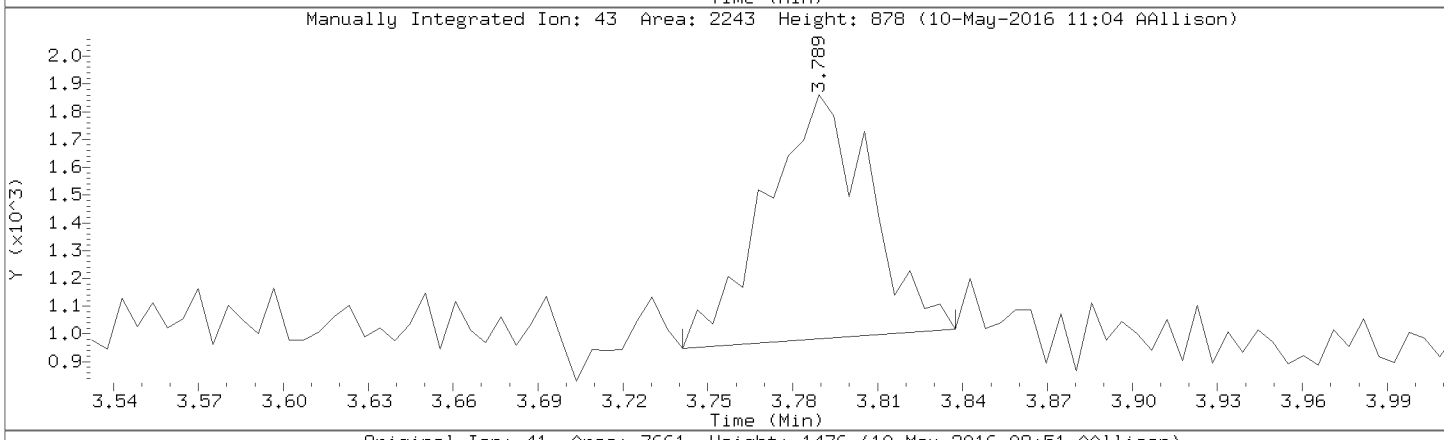
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

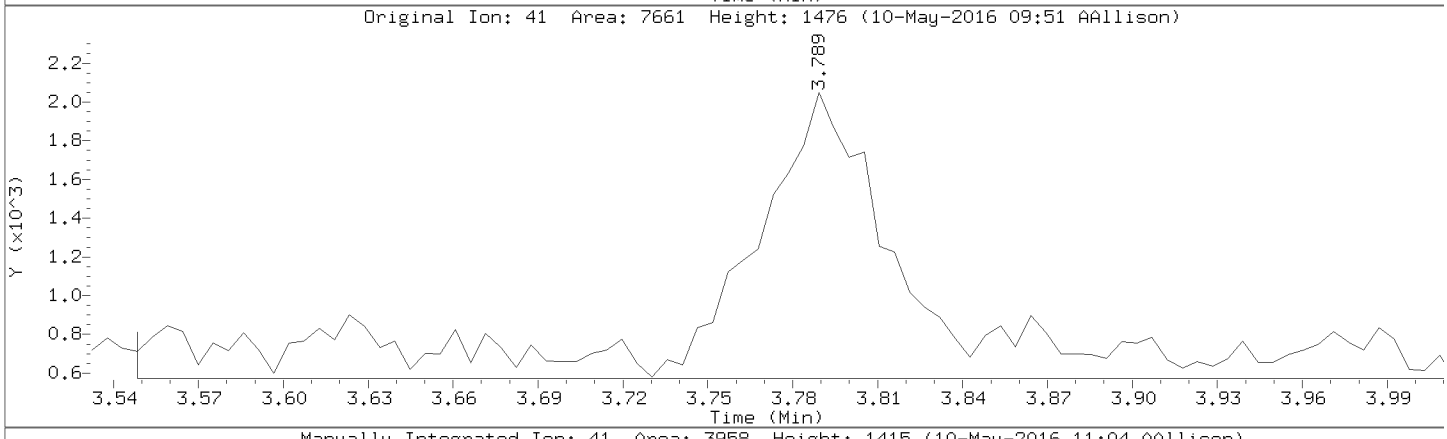


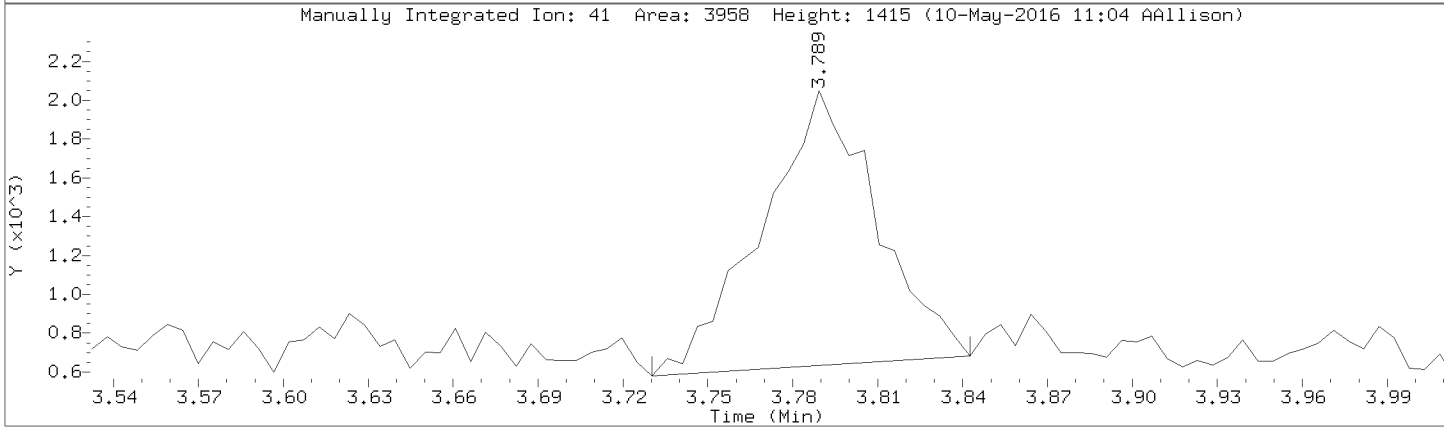
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1

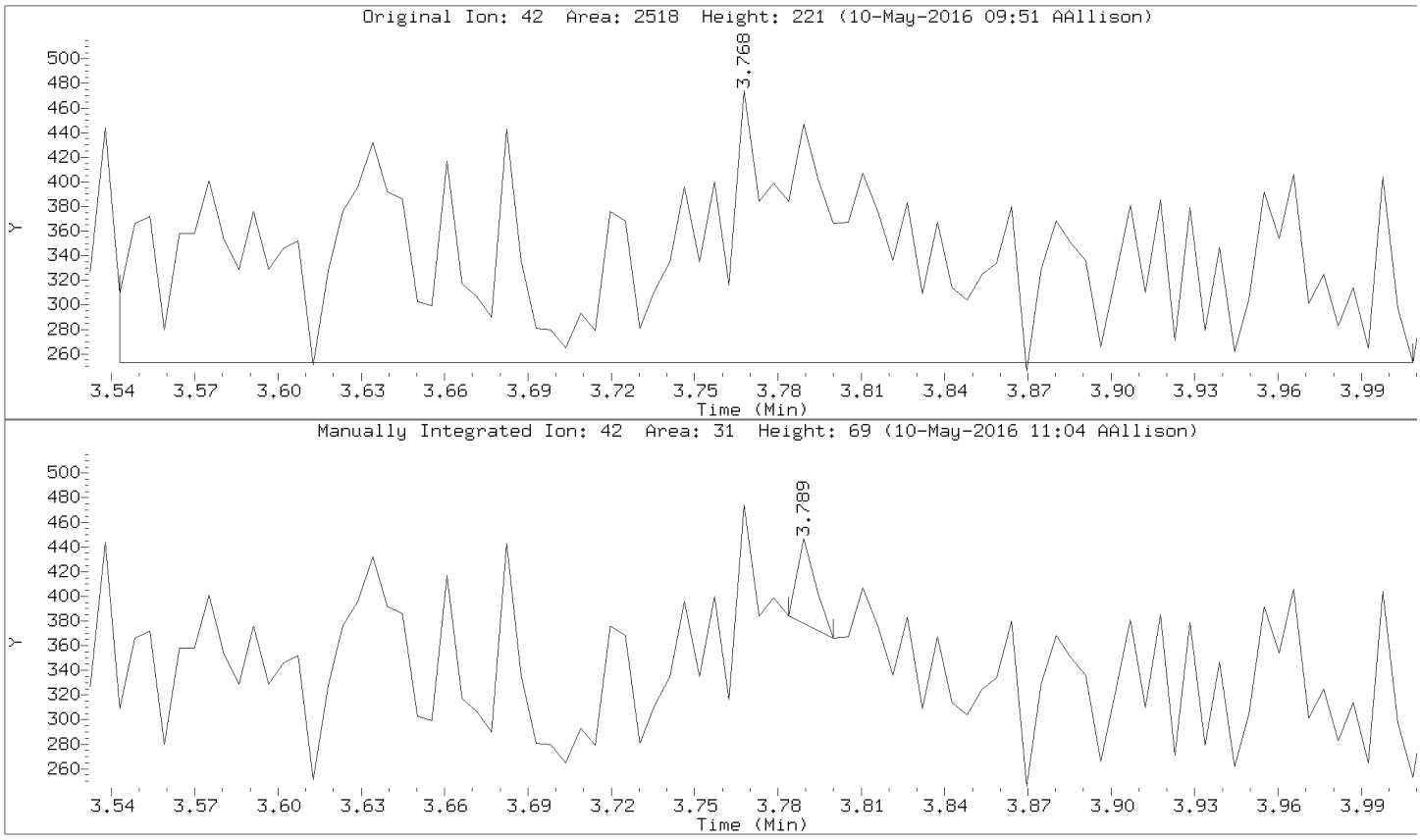






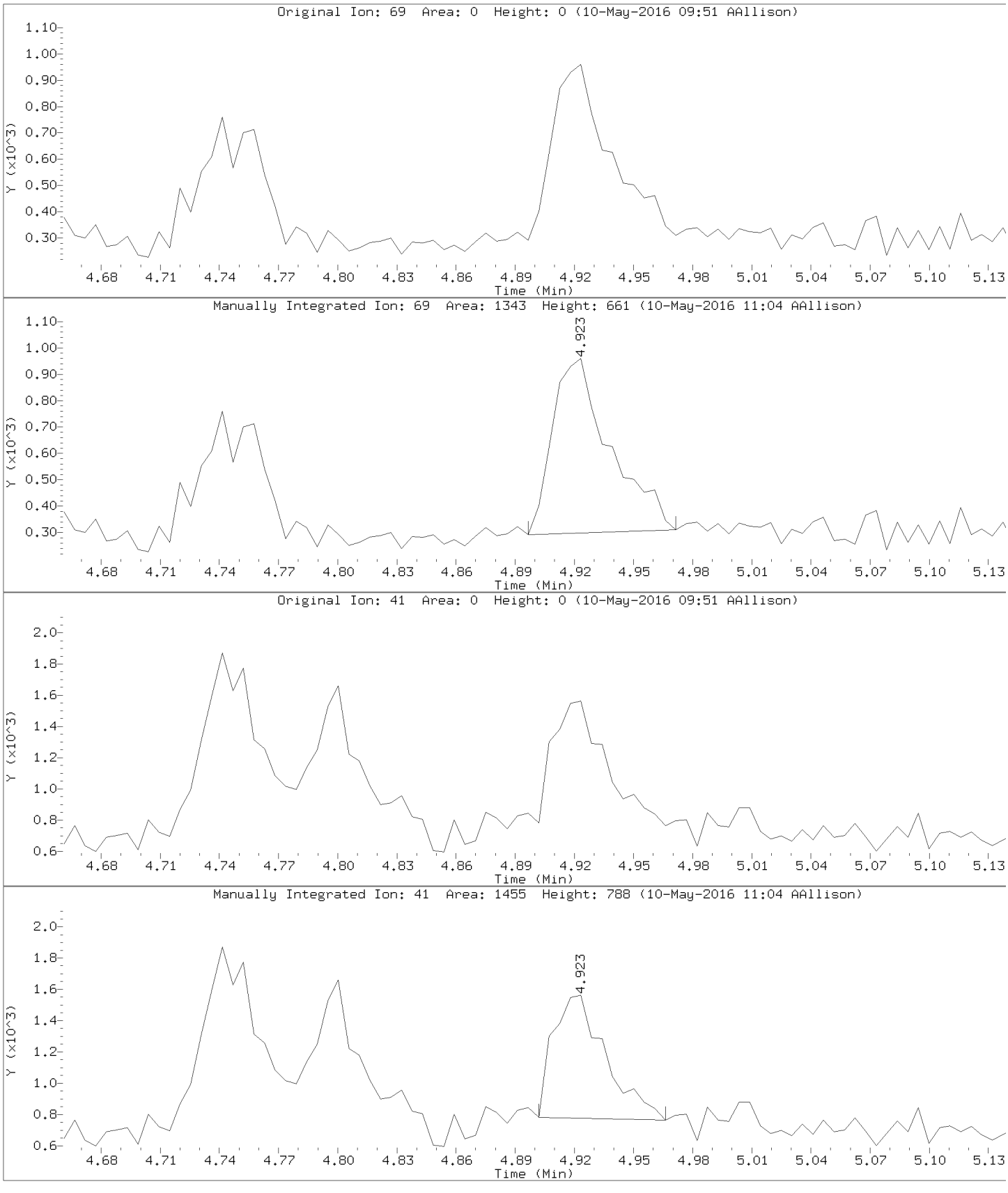


Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

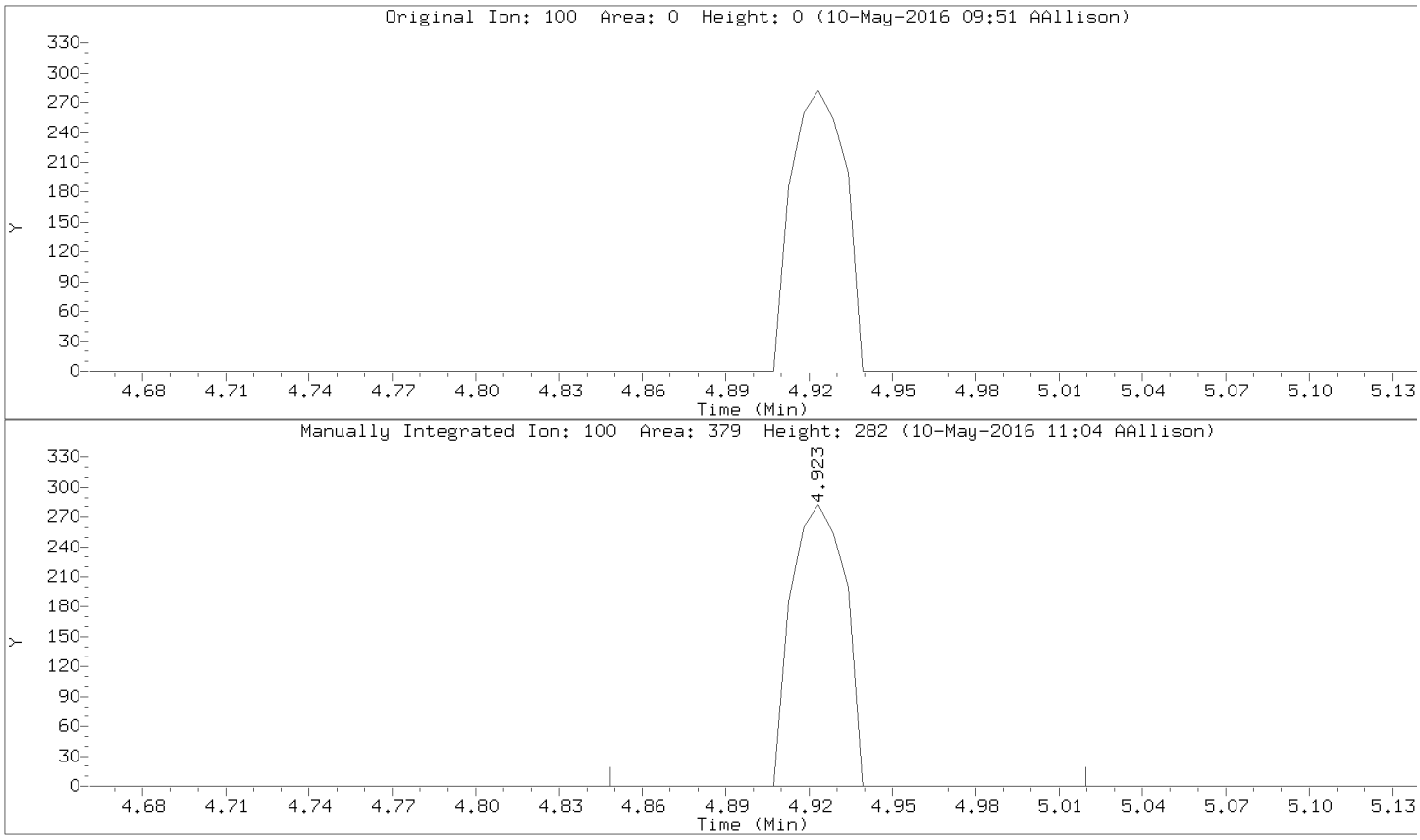


Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methyl methacrylate Review Code: NI
CAS Number: 80-62-6

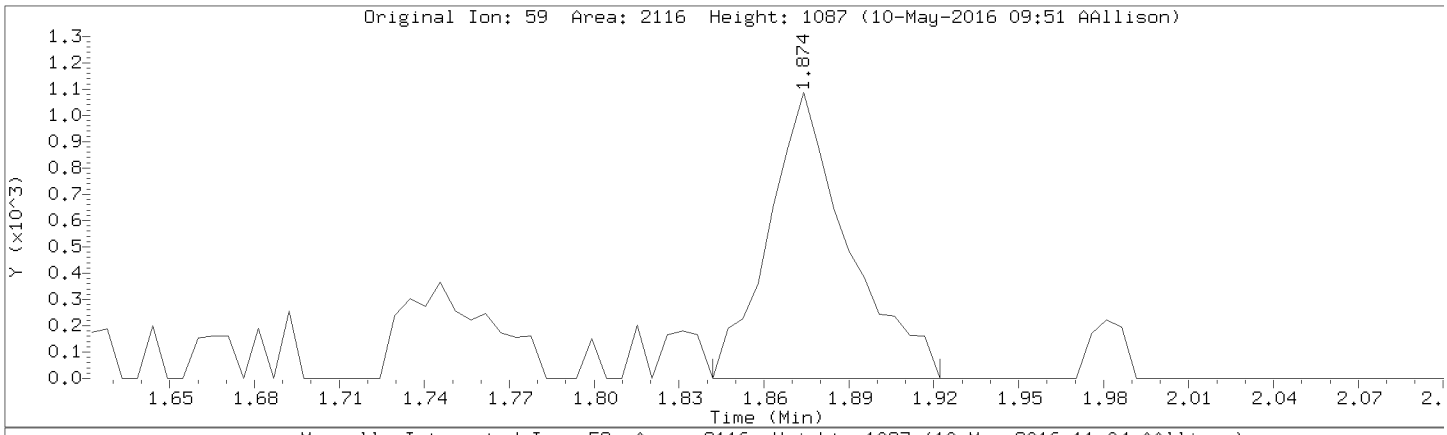


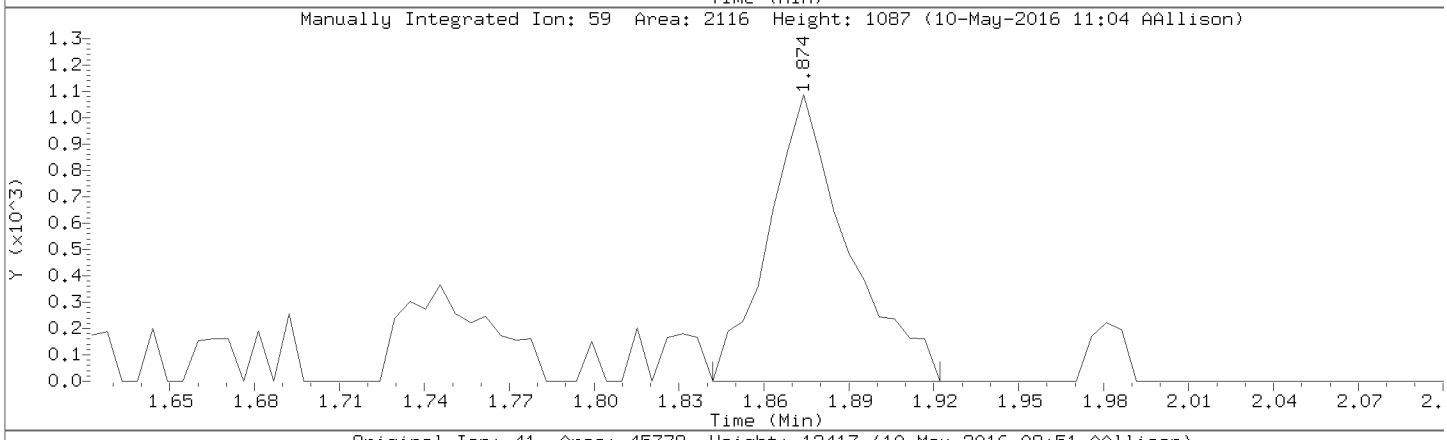
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

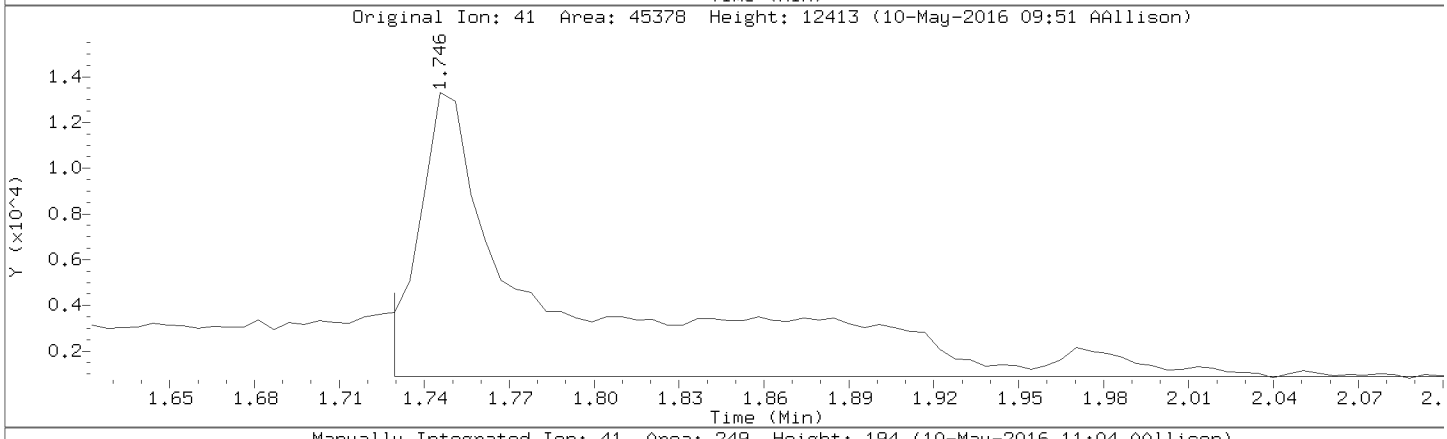


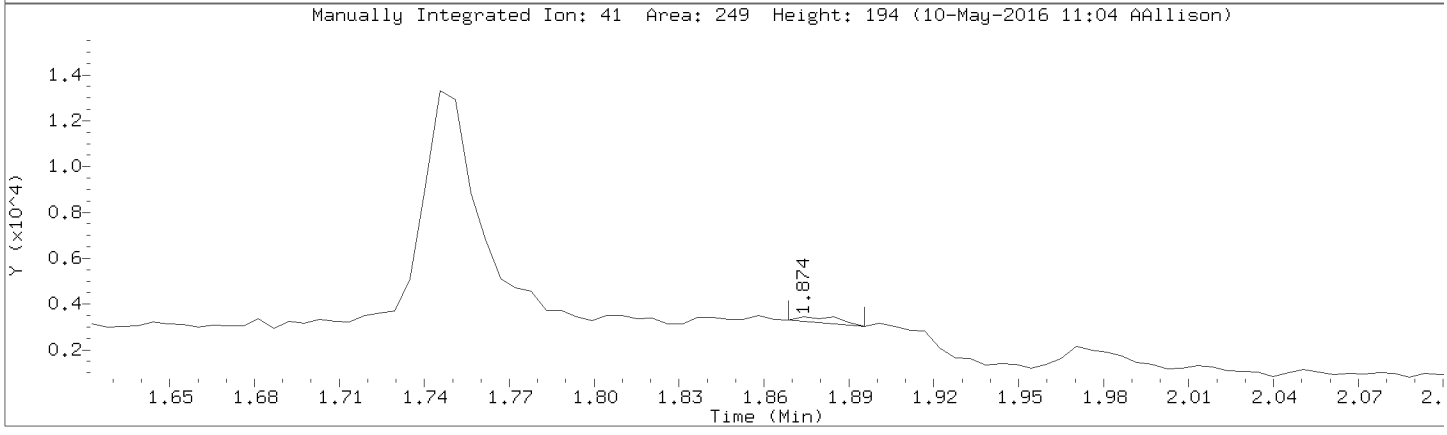
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



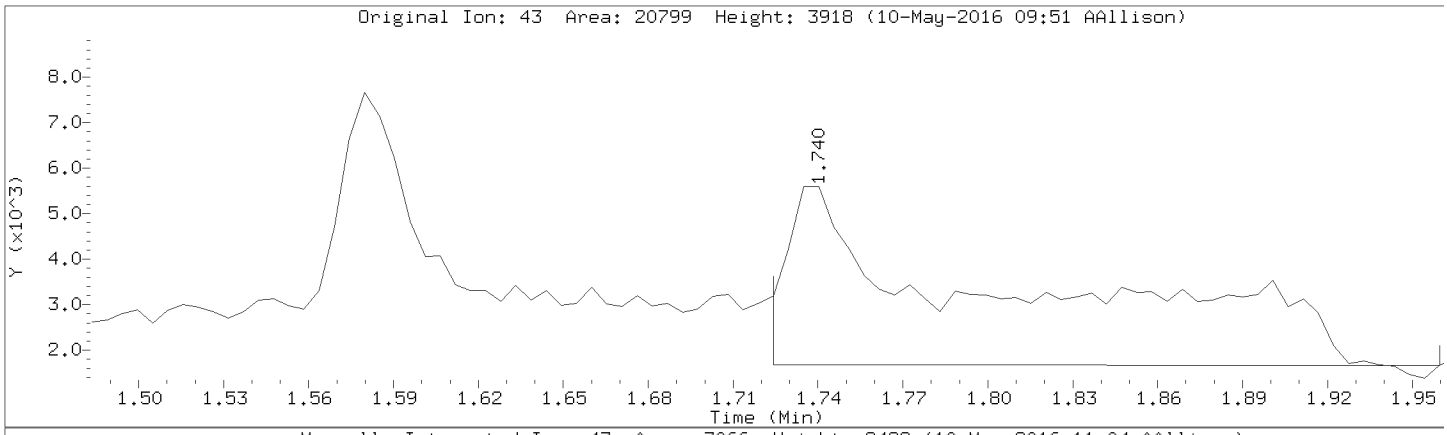


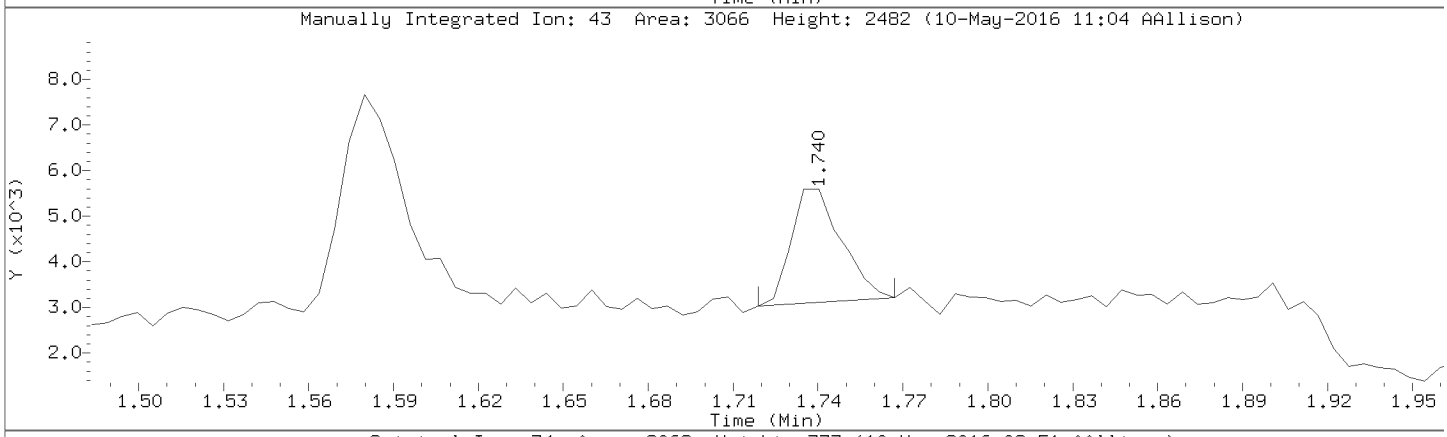


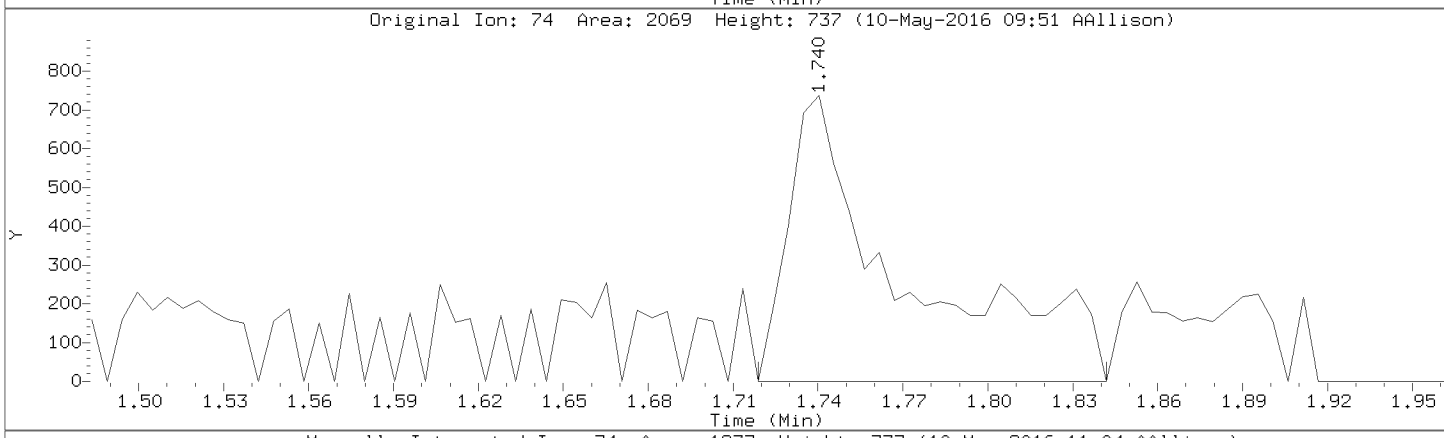


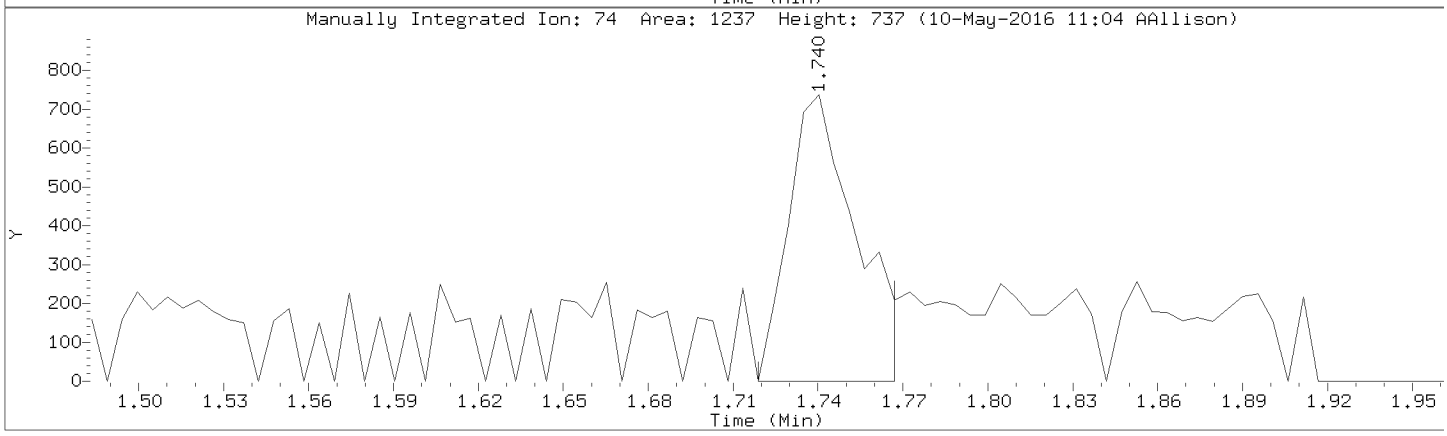
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9



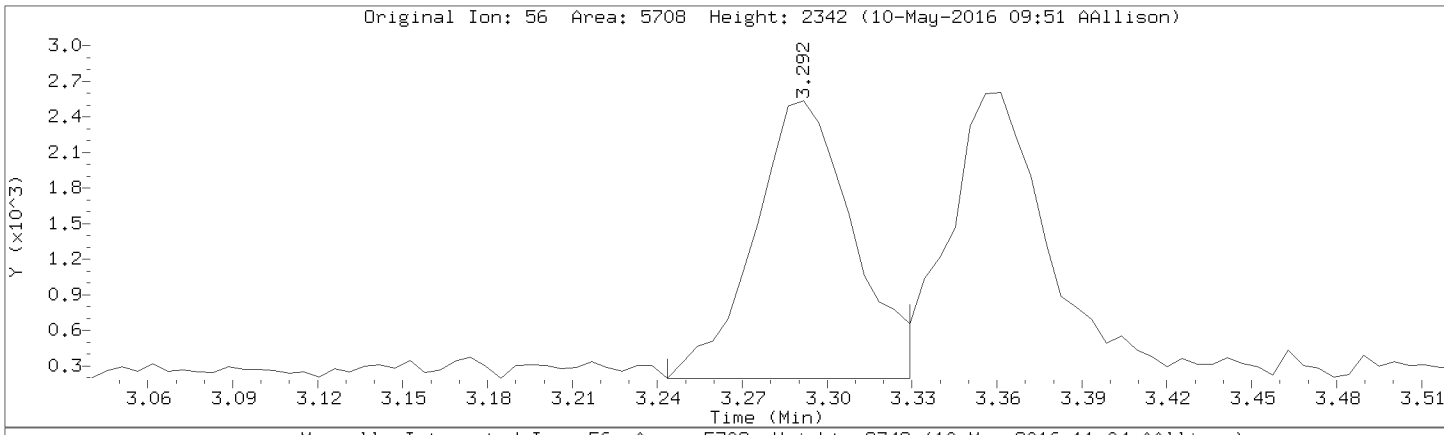


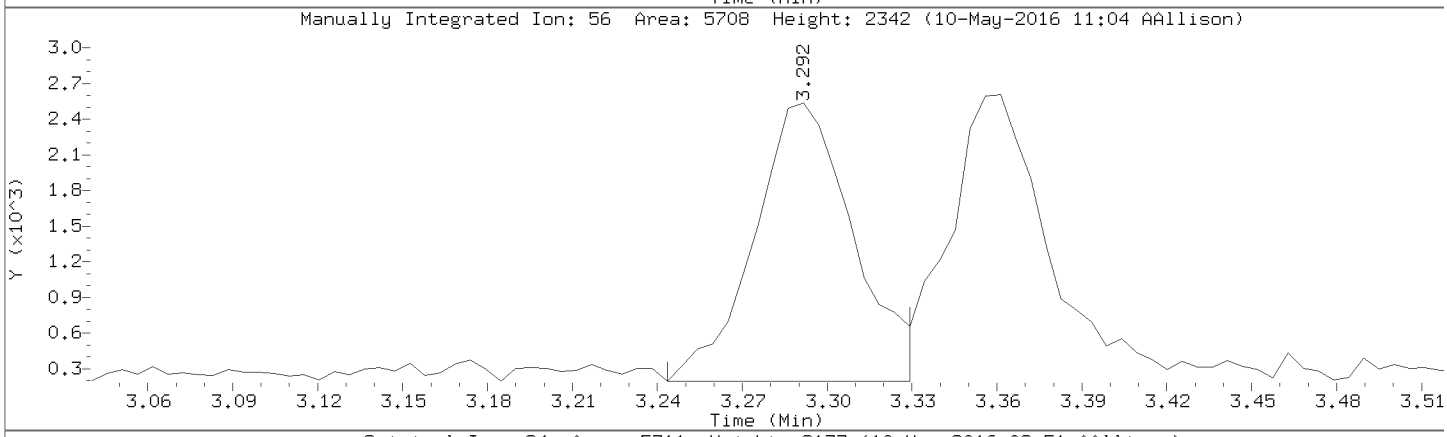


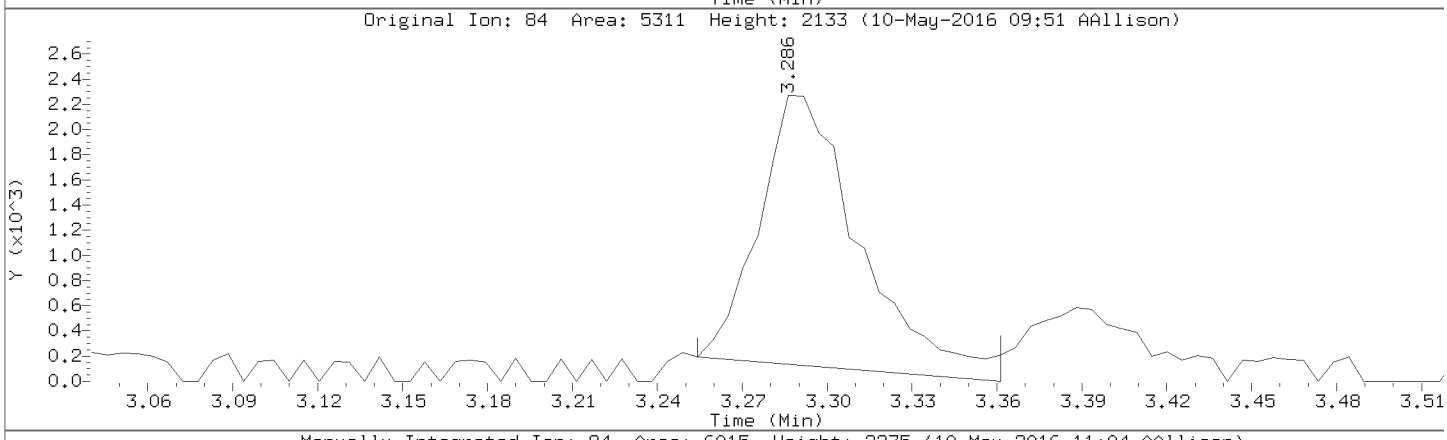


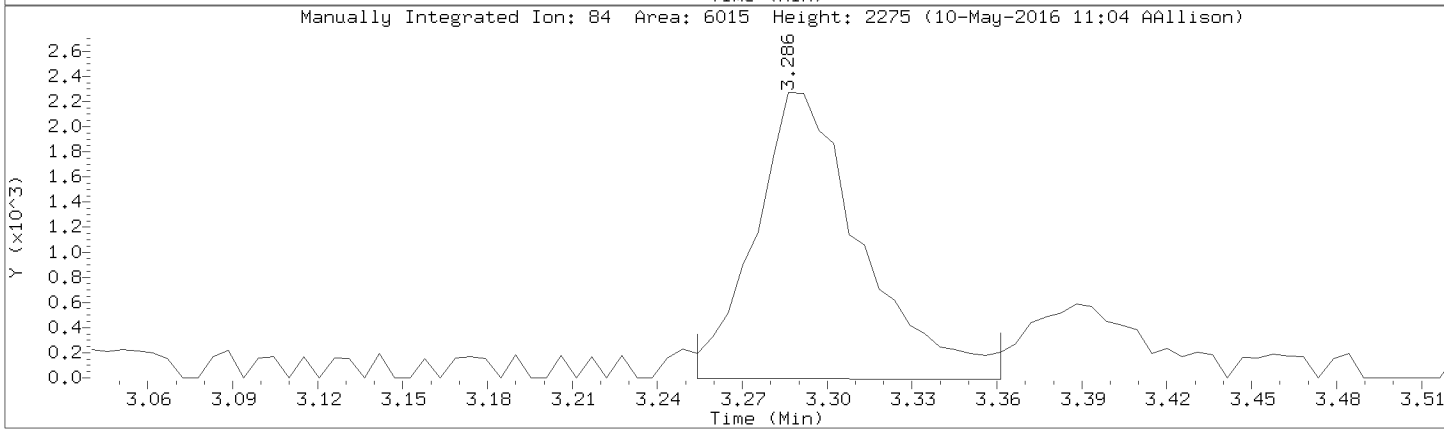
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Cyclohexane Review Code: LT
CAS Number: 110-82-7

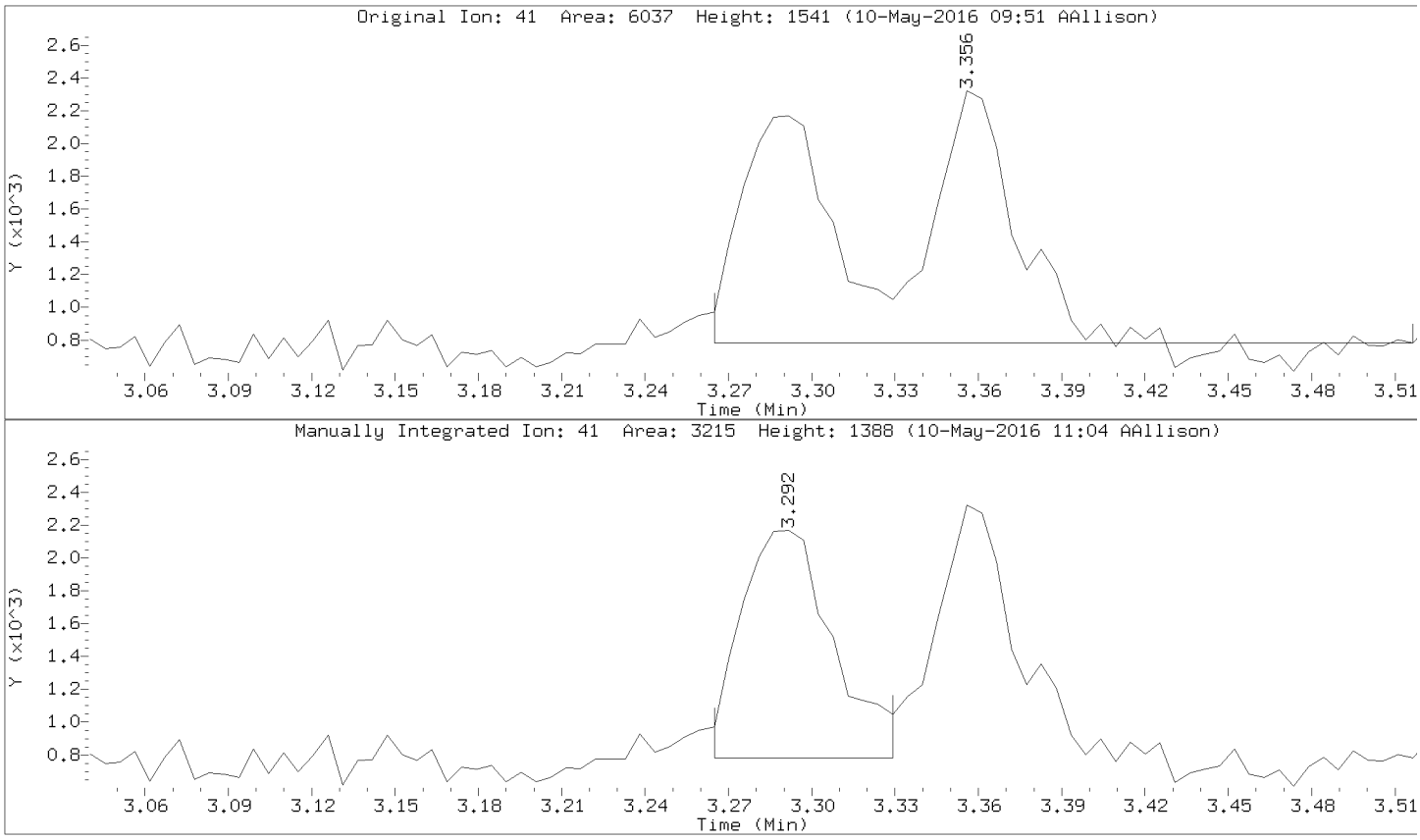






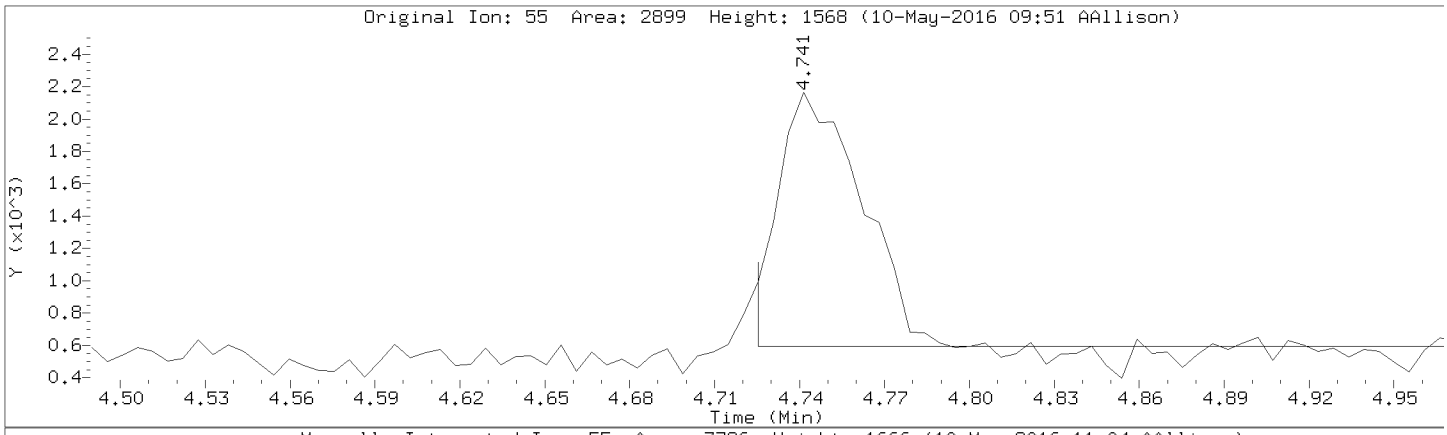


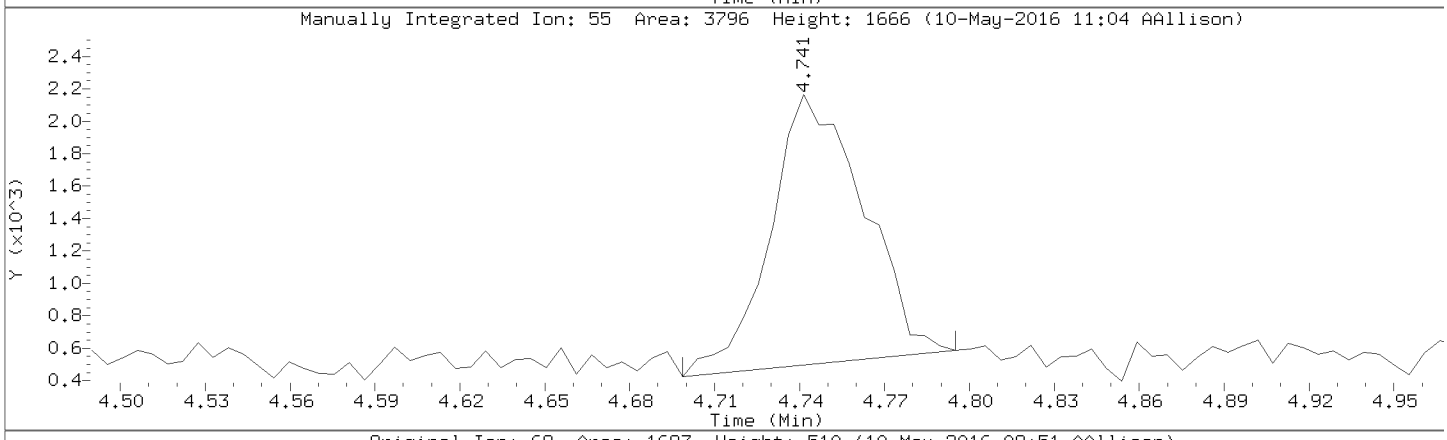
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

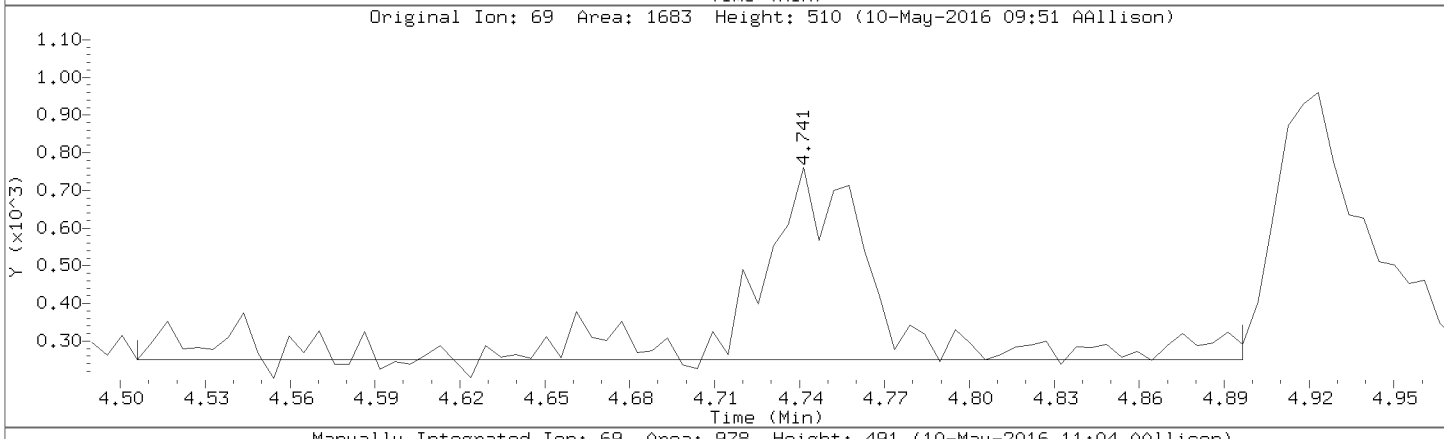


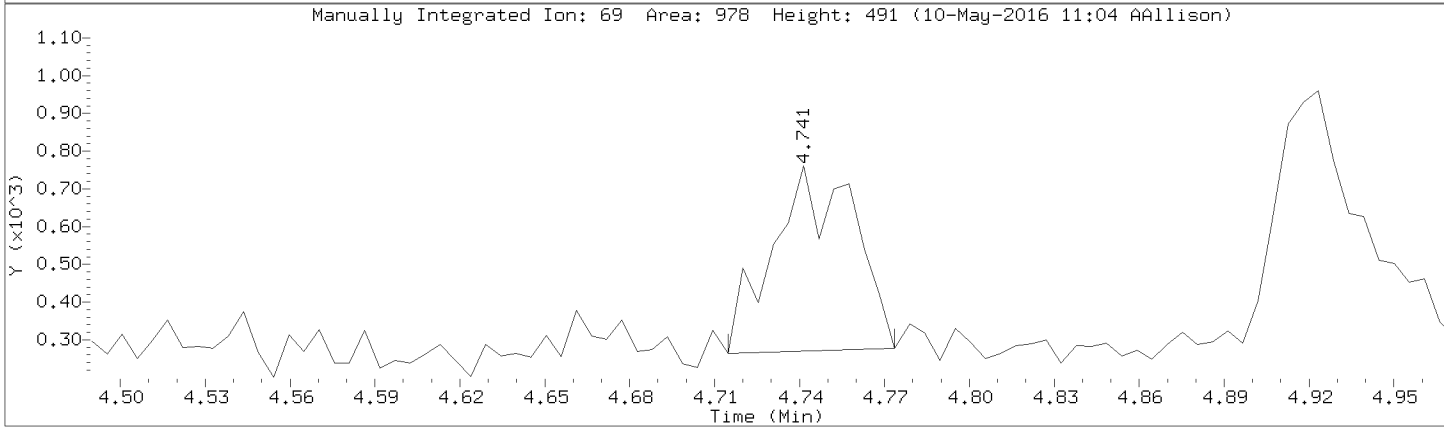
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methylcyclohexane Review Code: GT
CAS Number: 108-87-2

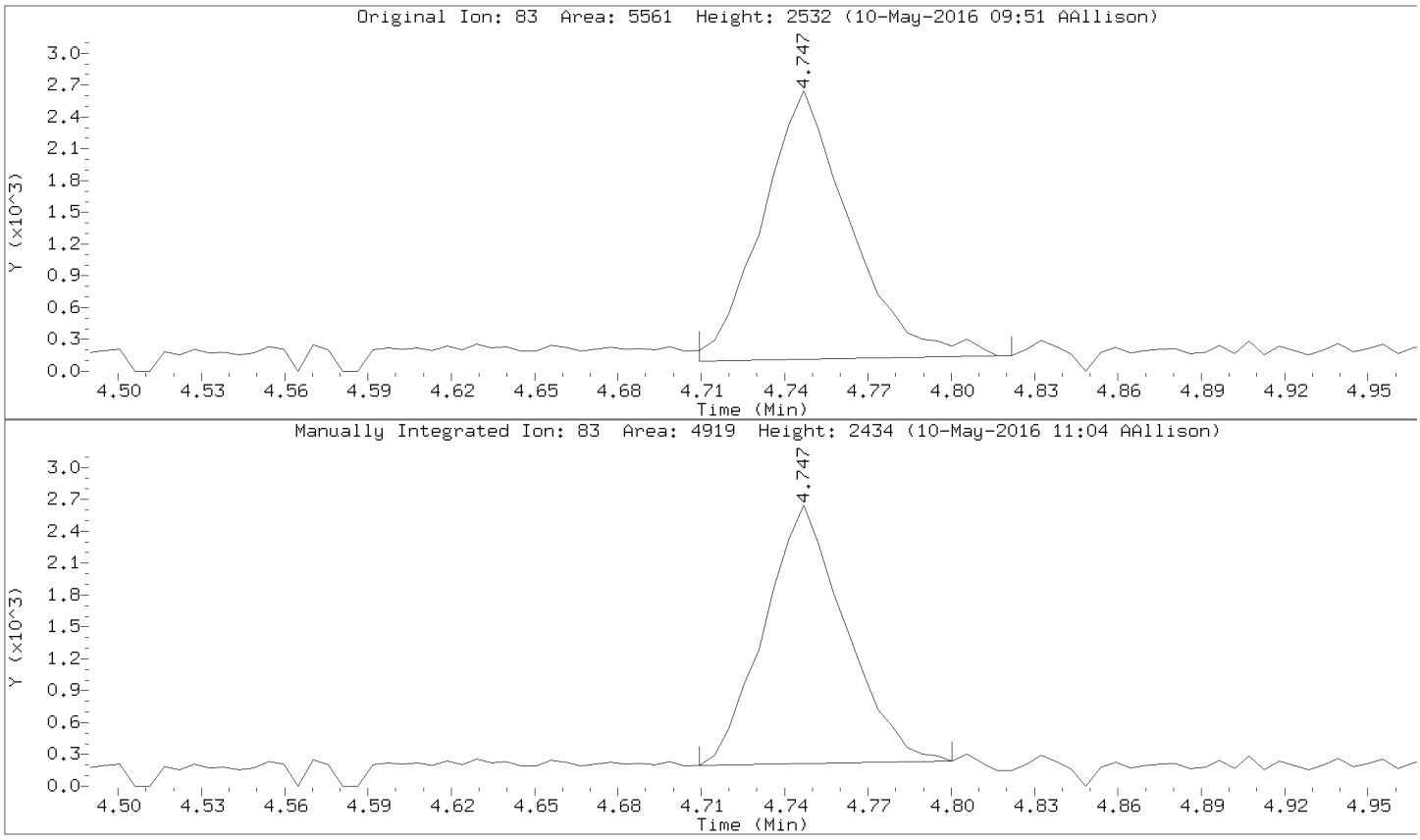






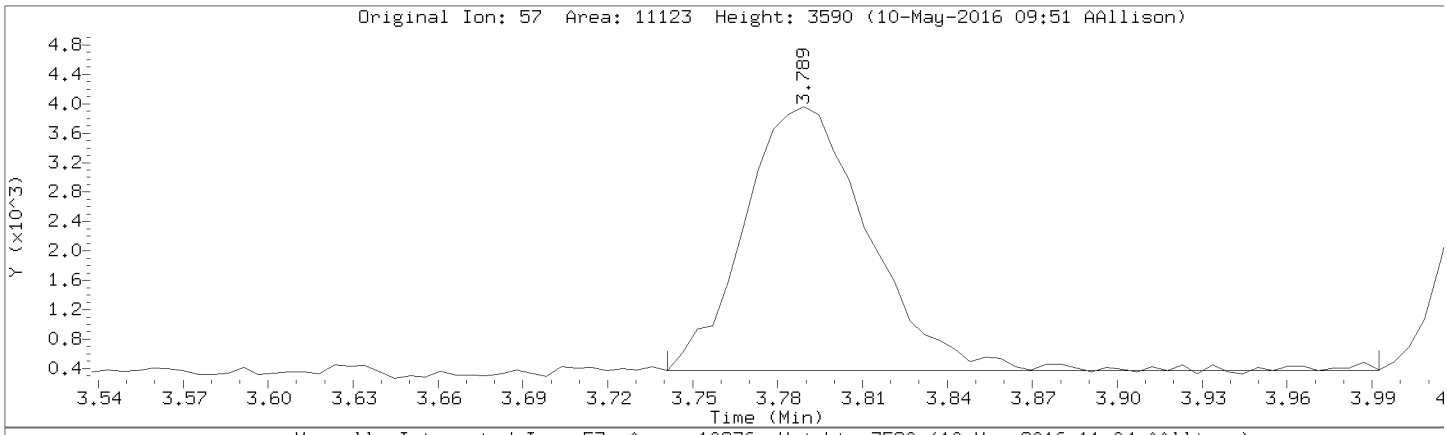


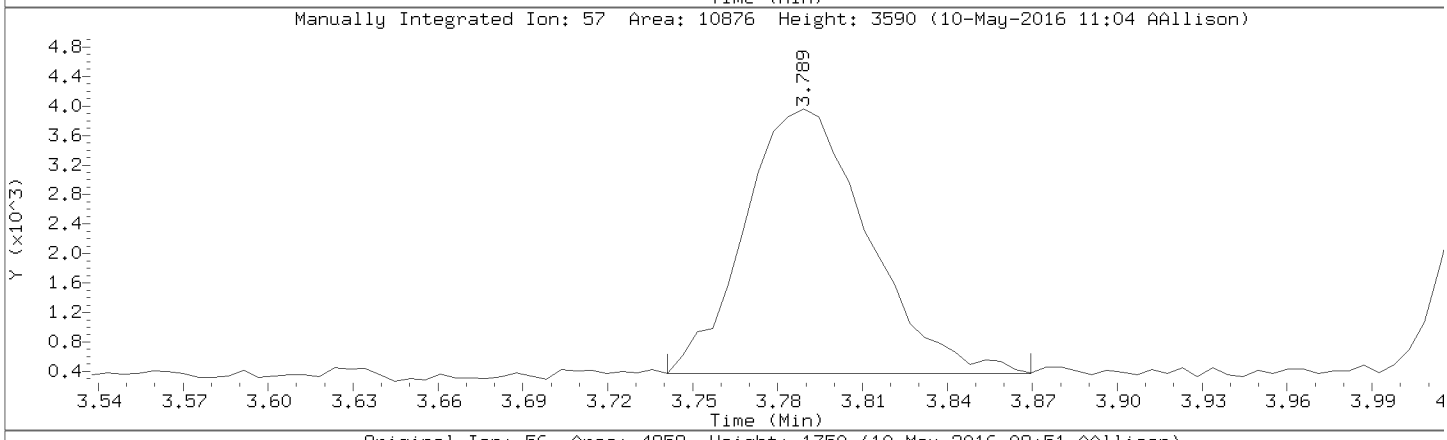
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

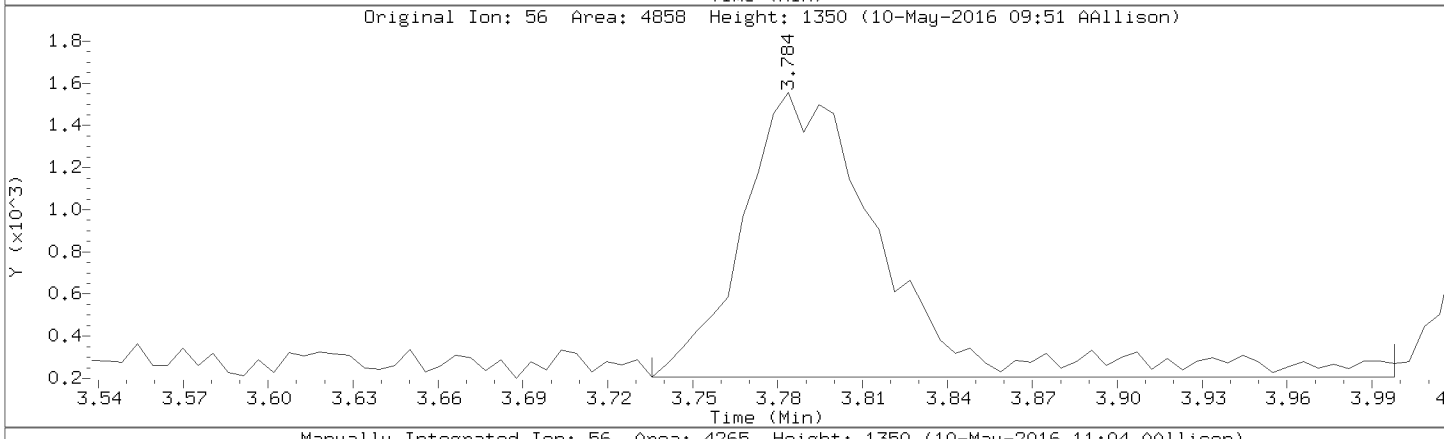


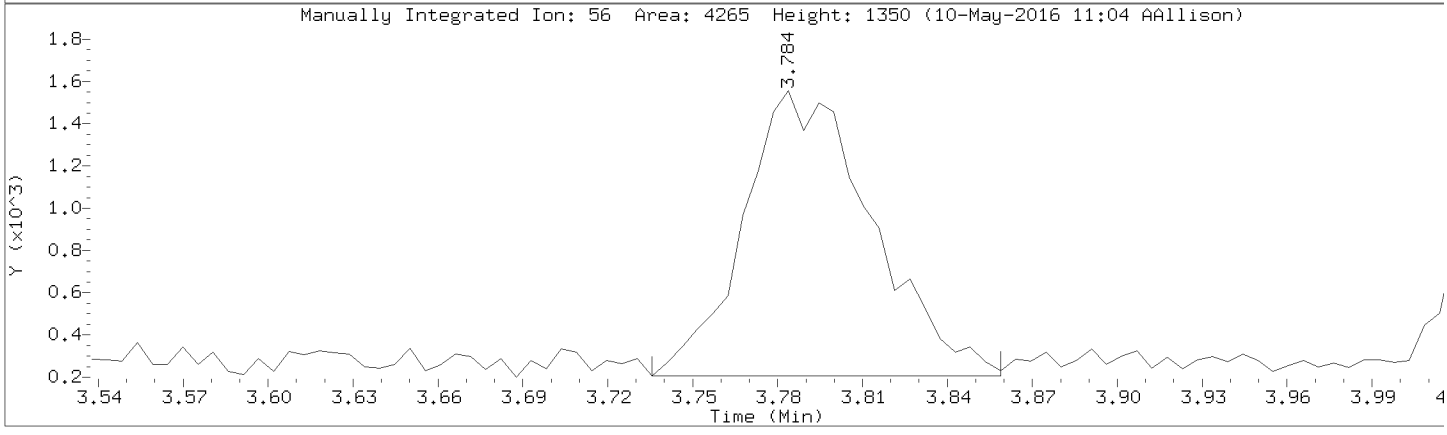
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 2,2,4-Trimethylpentane Review Code: GT
CAS Number: 540-84-1



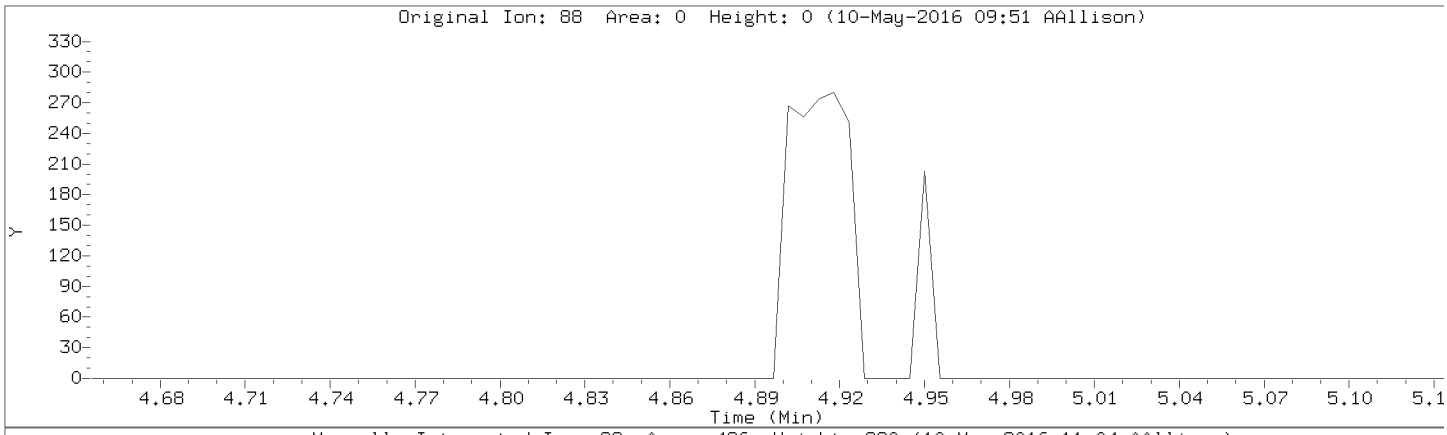


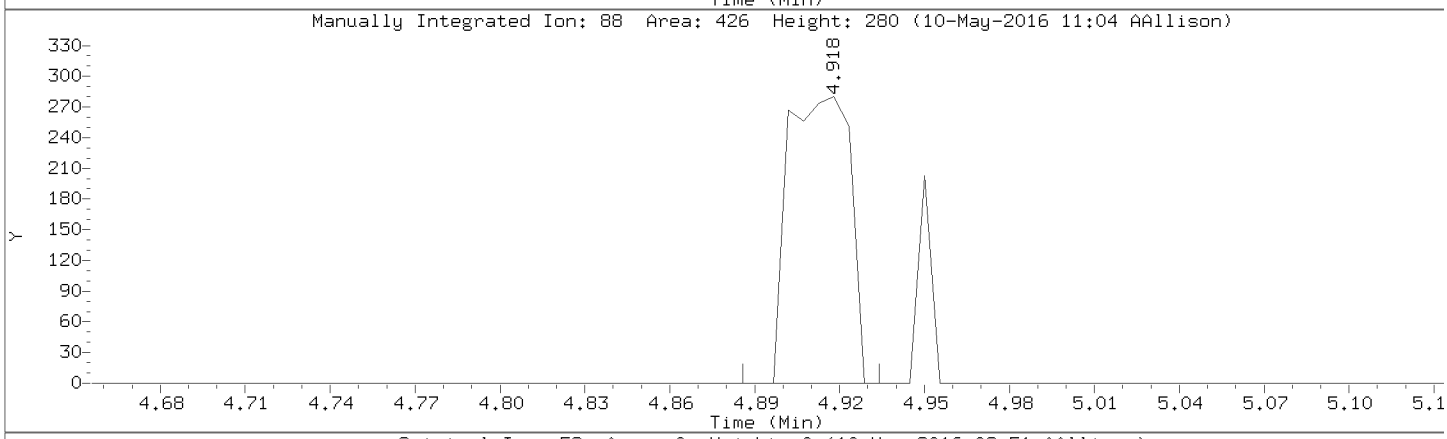


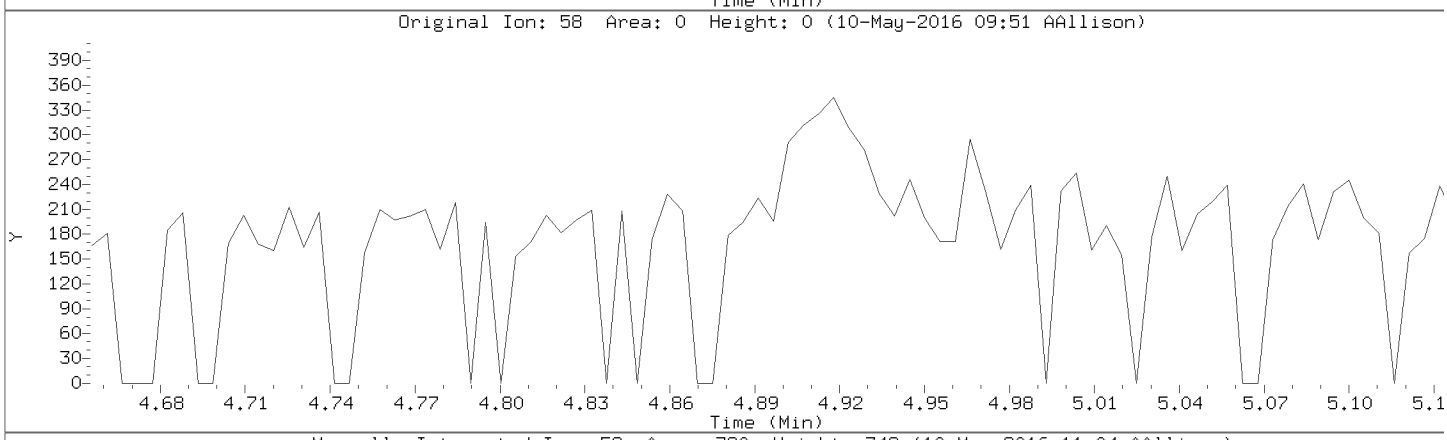


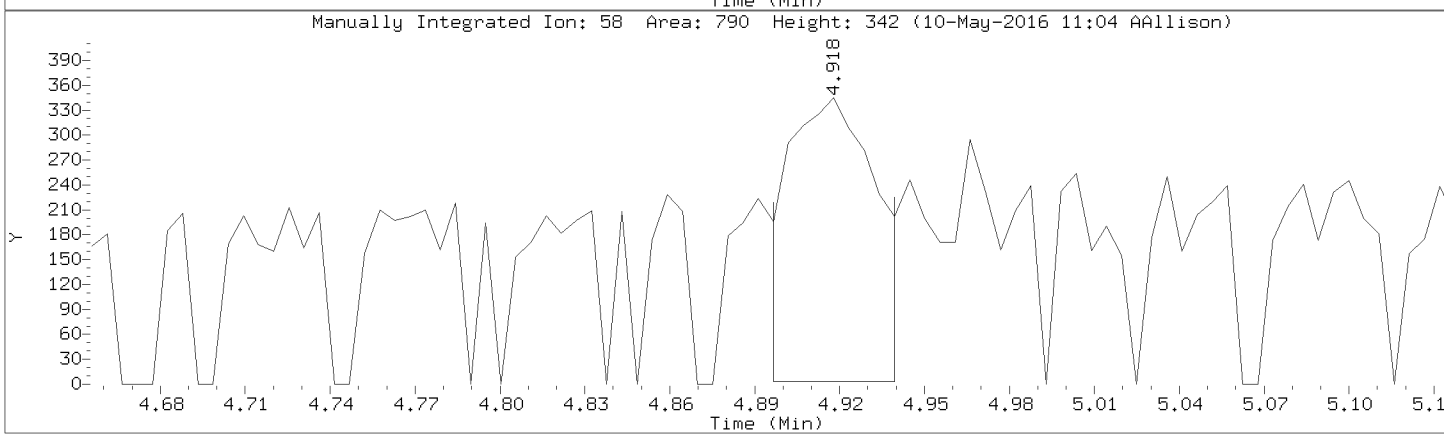
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: 1,4-Dioxane Review Code: NI
CAS Number:



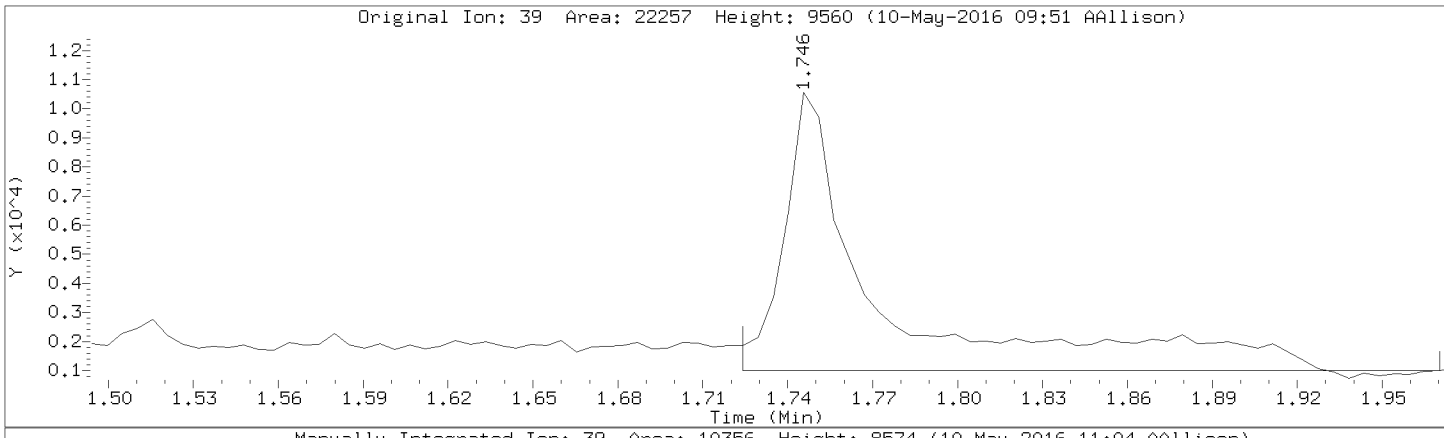


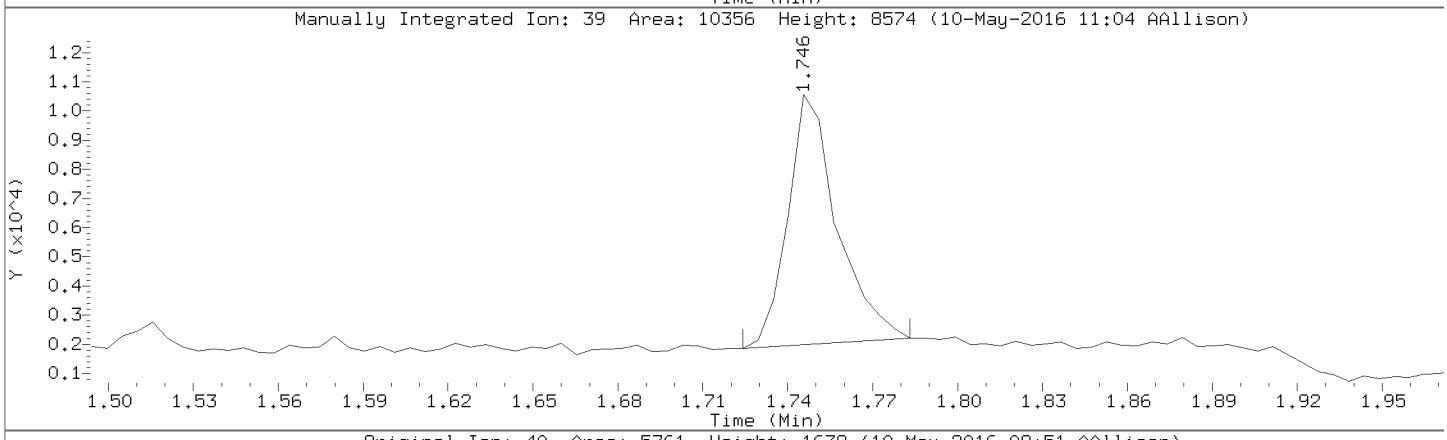


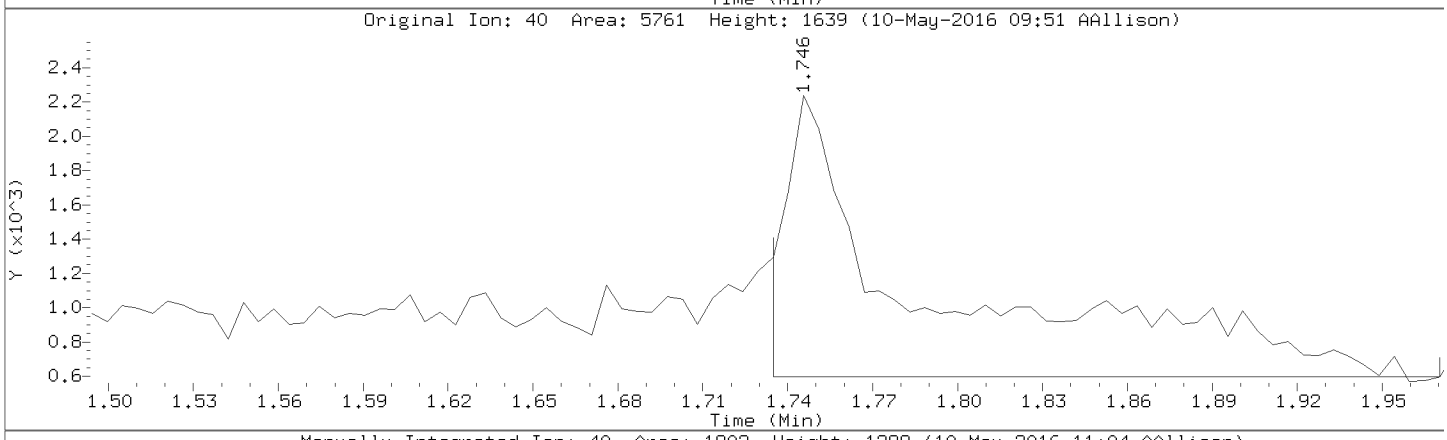


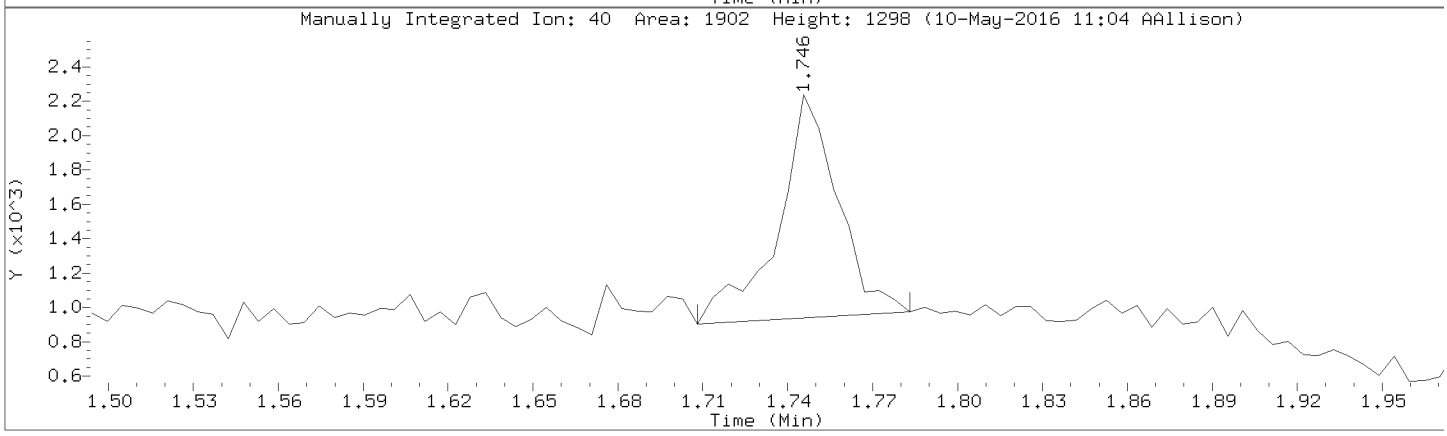
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8

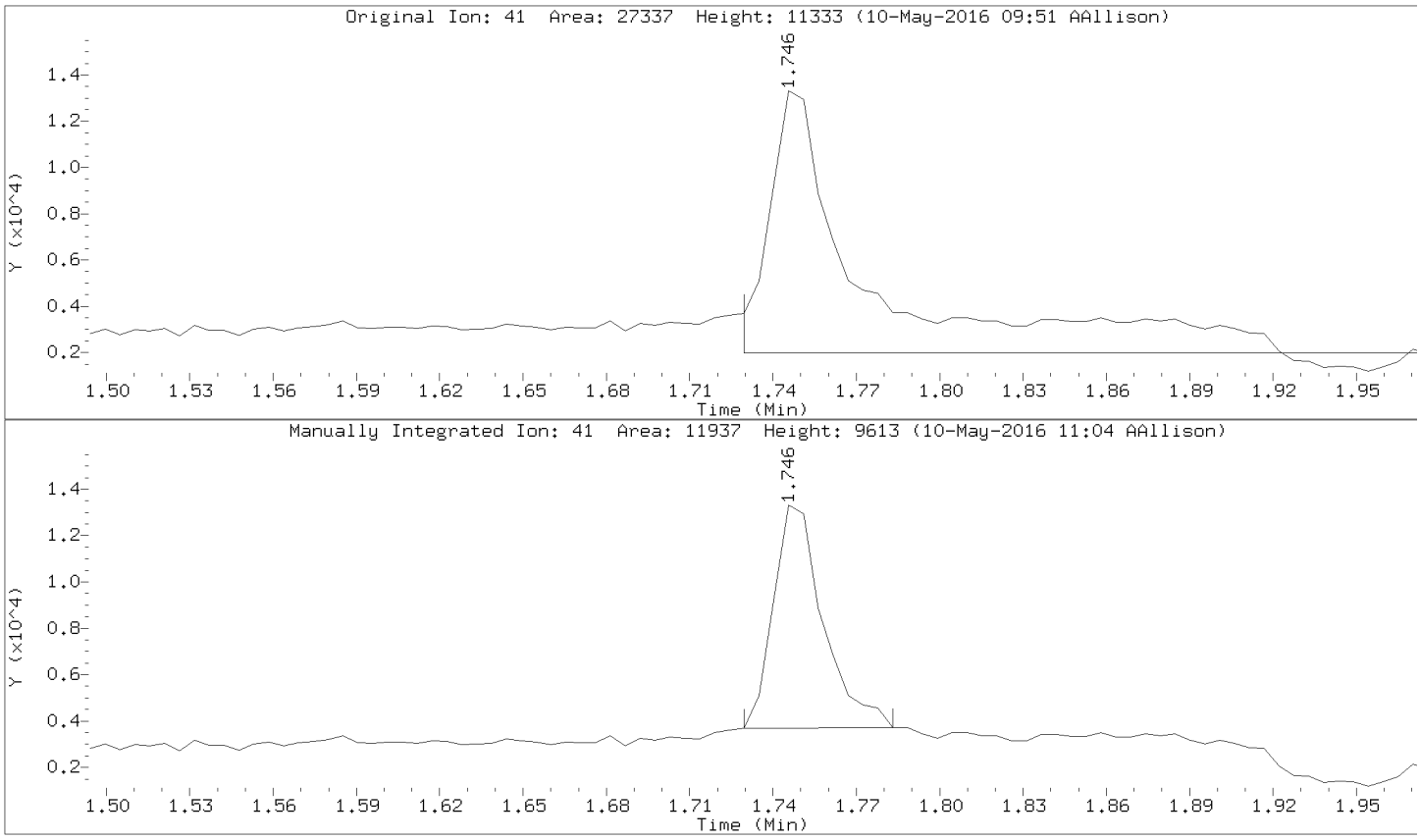






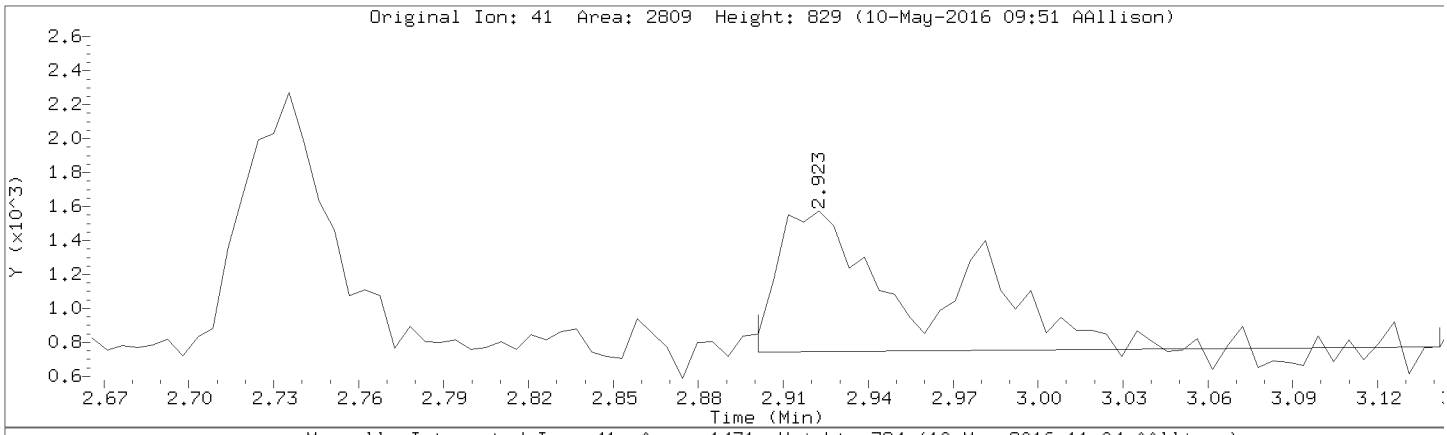


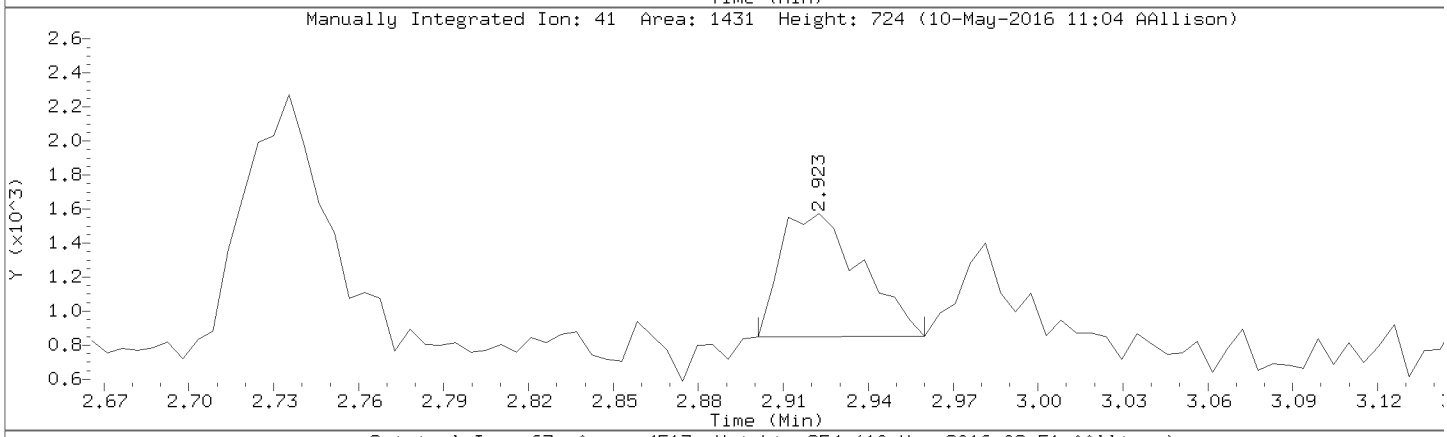
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

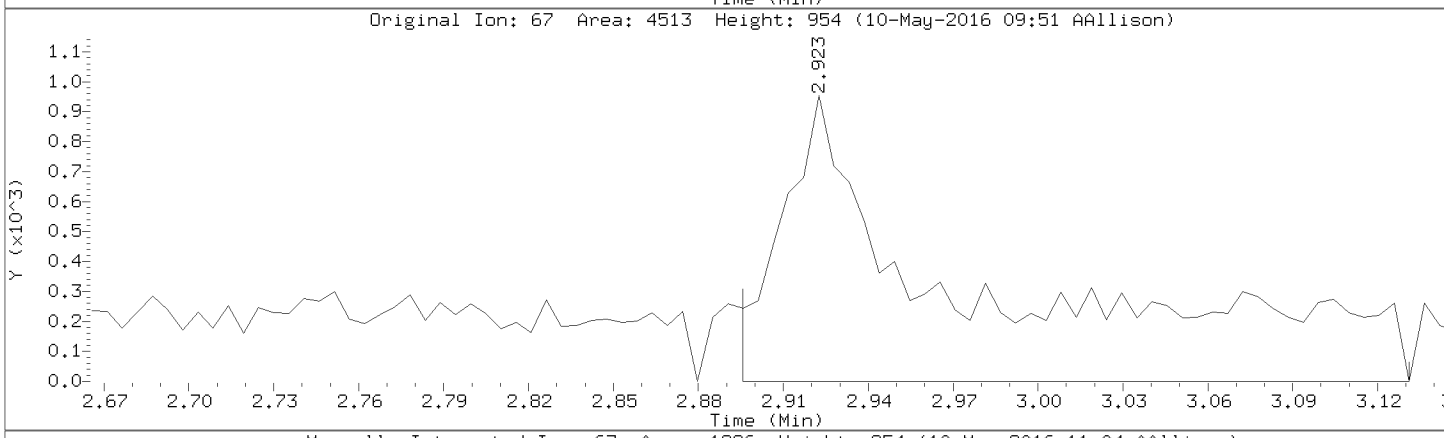


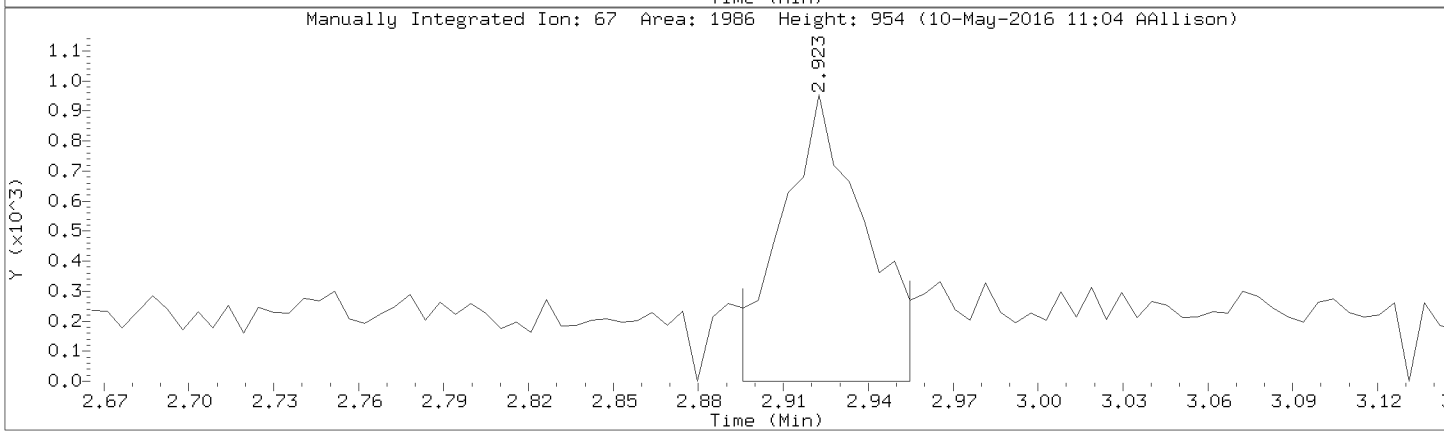
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7

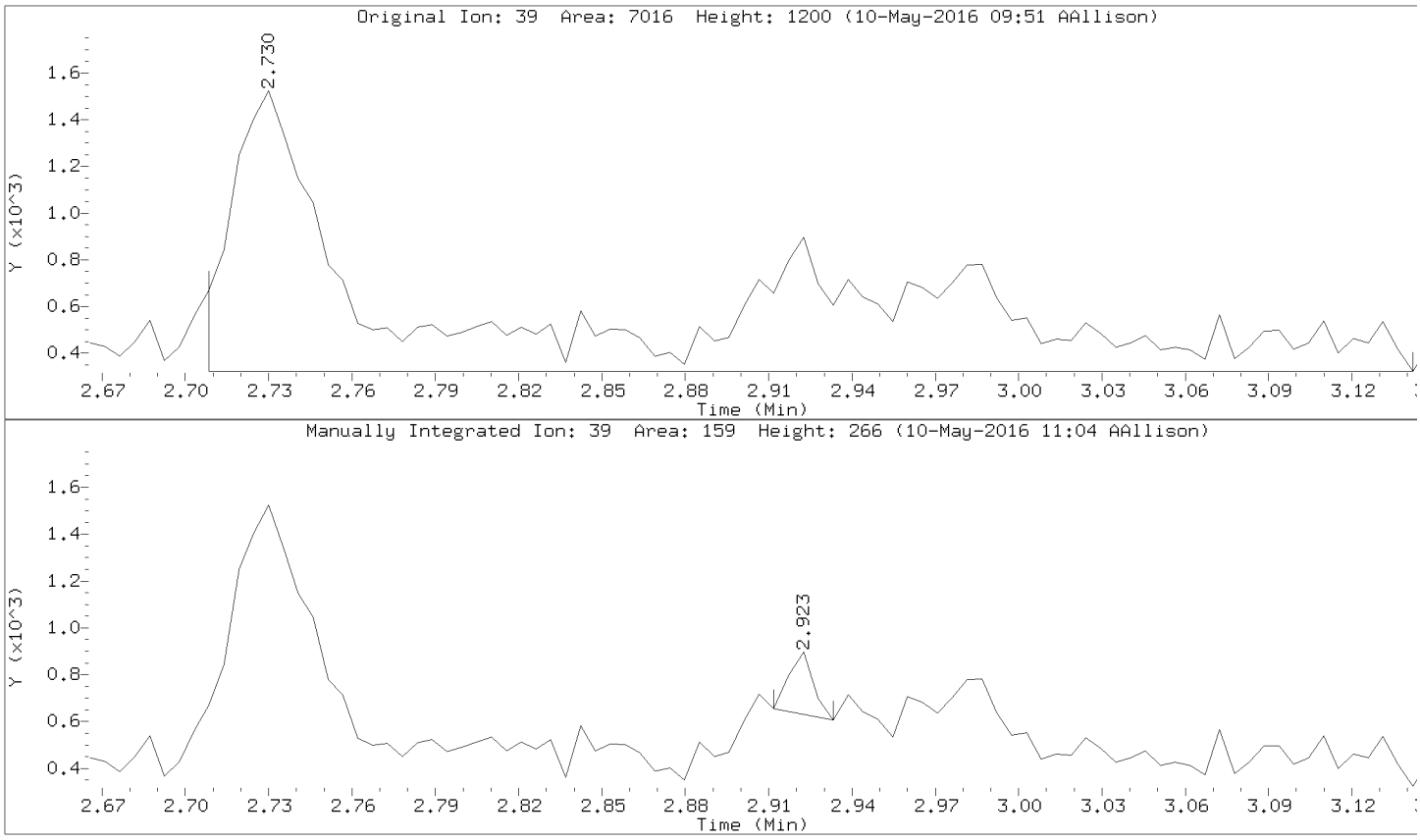






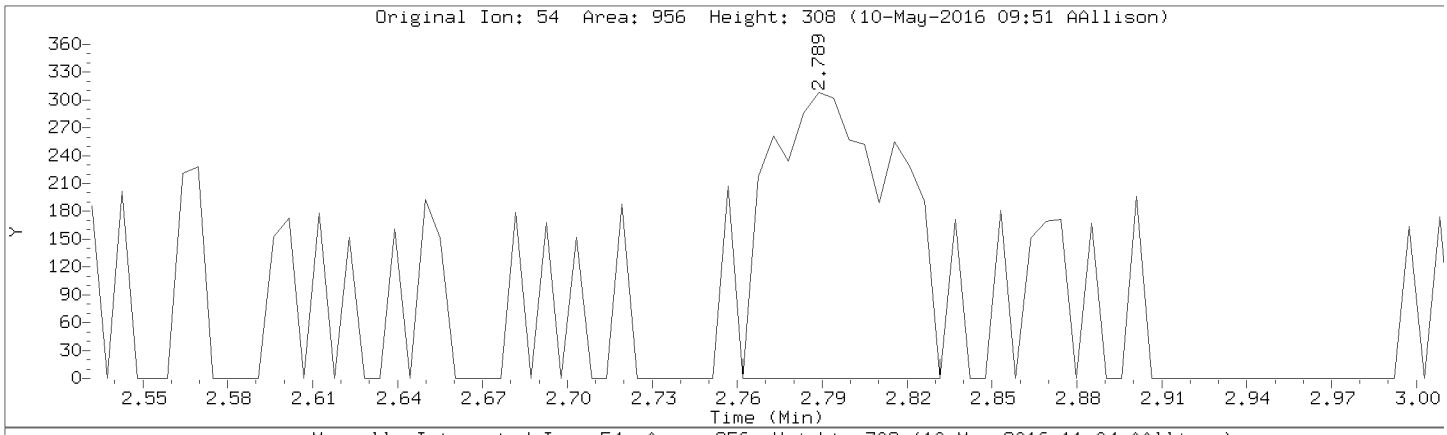


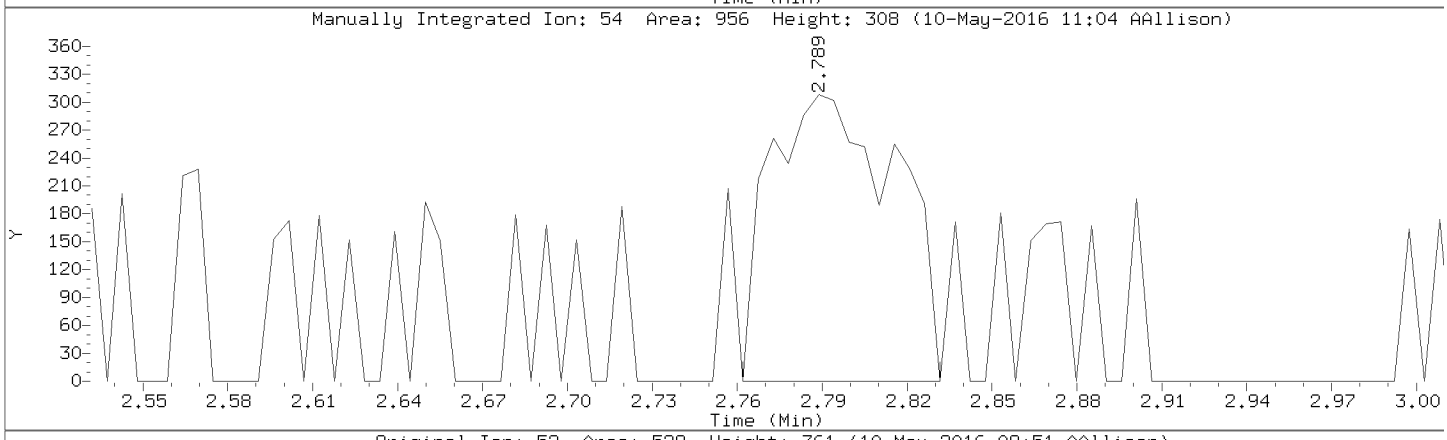
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

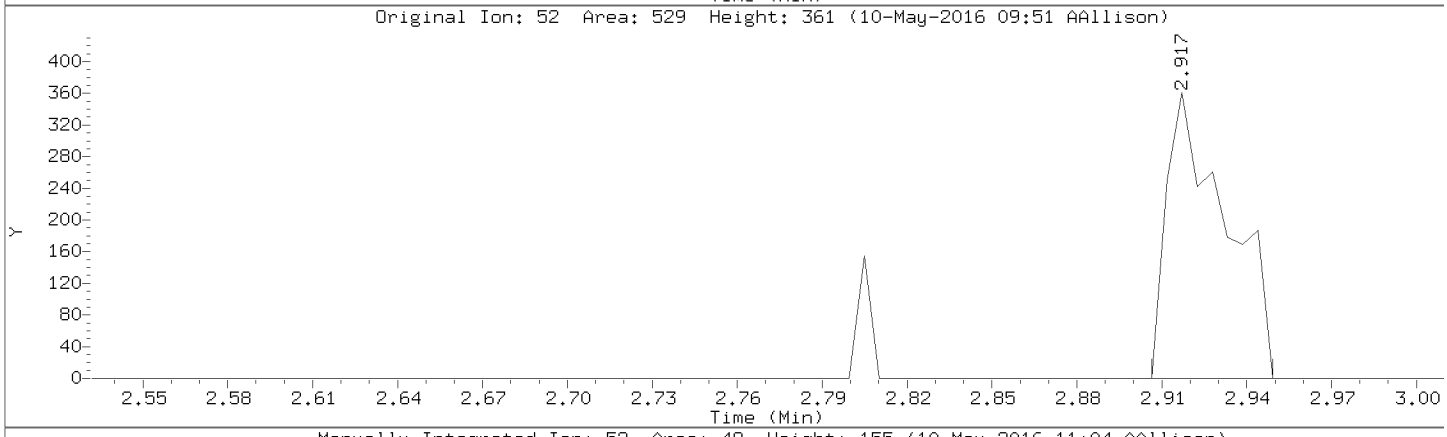


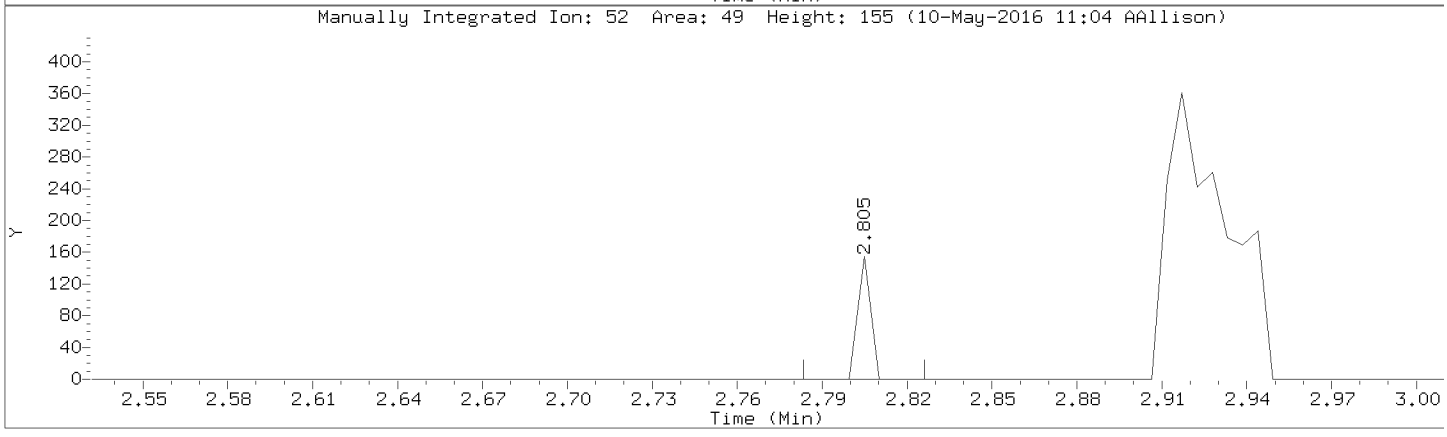
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2

Compound: Propionitrile Review Code: GT
CAS Number:

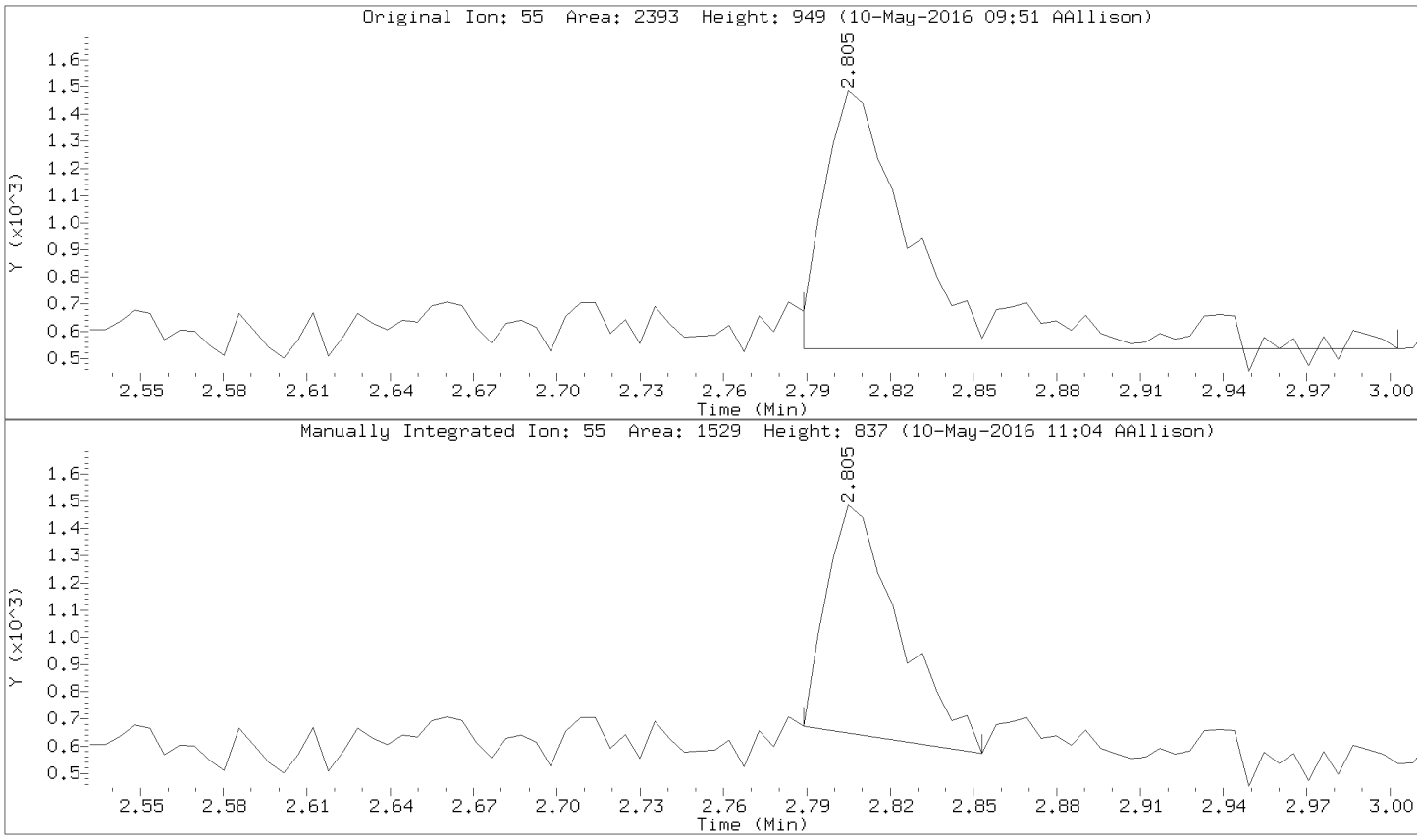








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a02.d
Injection Date: 09-MAY-2016 20:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL2



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a03.d
Lab Smp Id: 8260-CAL3 Client Smp ID: 8260-CAL3
Inj Date : 09-MAY-2016 20:52
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal3,121031:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.910	0.911	(0.226)	11604	5.00000	4.96(M)
2	Chloromethane	50	0.991	0.986	(0.246)	7533	5.00000	4.16(M)
3	Vinyl Chloride	62	1.034	1.034	(0.256)	11591	5.00000	4.52(QM)
4	Bromomethane	94	1.167	1.168	(0.289)	2209	5.00000	4.13(QM)
5	Chloroethane	64	1.215	1.210	(0.301)	7500	5.00000	5.14(M)
6	Trichlorofluoromethane	101	1.322	1.317	(0.328)	21598	5.00000	5.08
8	Diethyl ether	74	1.440	1.440	(0.357)	6835	5.00000	5.15(M)
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	14565	5.00000	4.76
9	Acrolein	56	1.515	1.515	(0.376)	29665	100.000	115
10	1,1,2trichlorotrifluoroethane	101	1.558	1.553	(0.386)	13770	5.00000	5.00
11	1,1-Dichloroethene	96	1.563	1.563	(0.387)	10220	5.00000	5.00(M)
12	Acetone	43	1.579	1.585	(0.391)	18686	25.0000	28.9(M)
13	Iodomethane	142	1.643	1.649	(0.407)	6258	10.0000	4.58(M)
14	Carbon Disulfide	76	1.692	1.686	(0.419)	33743	5.00000	3.77
16	Methyl Acetate	43	1.734	1.734	(0.430)	8340	5.00000	5.75(M)
143	Acetonitrile	39	1.745	1.745	(0.433)	27552	5.00000	5.53(M)
15	allyl chloride	41	1.745	1.745	(0.433)	32555	10.0000	10.6(M)
17	Methylene Chloride	84	1.820	1.820	(0.451)	15735	5.00000	6.73(Q)
18	tert-Butyl Alcohol	59	1.873	1.873	(0.464)	4263	10.0000	15.8(M)
19	Acrylonitrile	53	1.954	1.954	(0.484)	11979	20.0000	21.5(M)
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	22721	5.00000	5.42
21	1,2-Dichloroethene (trans)	96	1.980	1.981	(0.491)	9915	5.00000	4.77
22	n-Hexane	57	2.152	2.146	(0.533)	9142	5.00000	4.50(M)

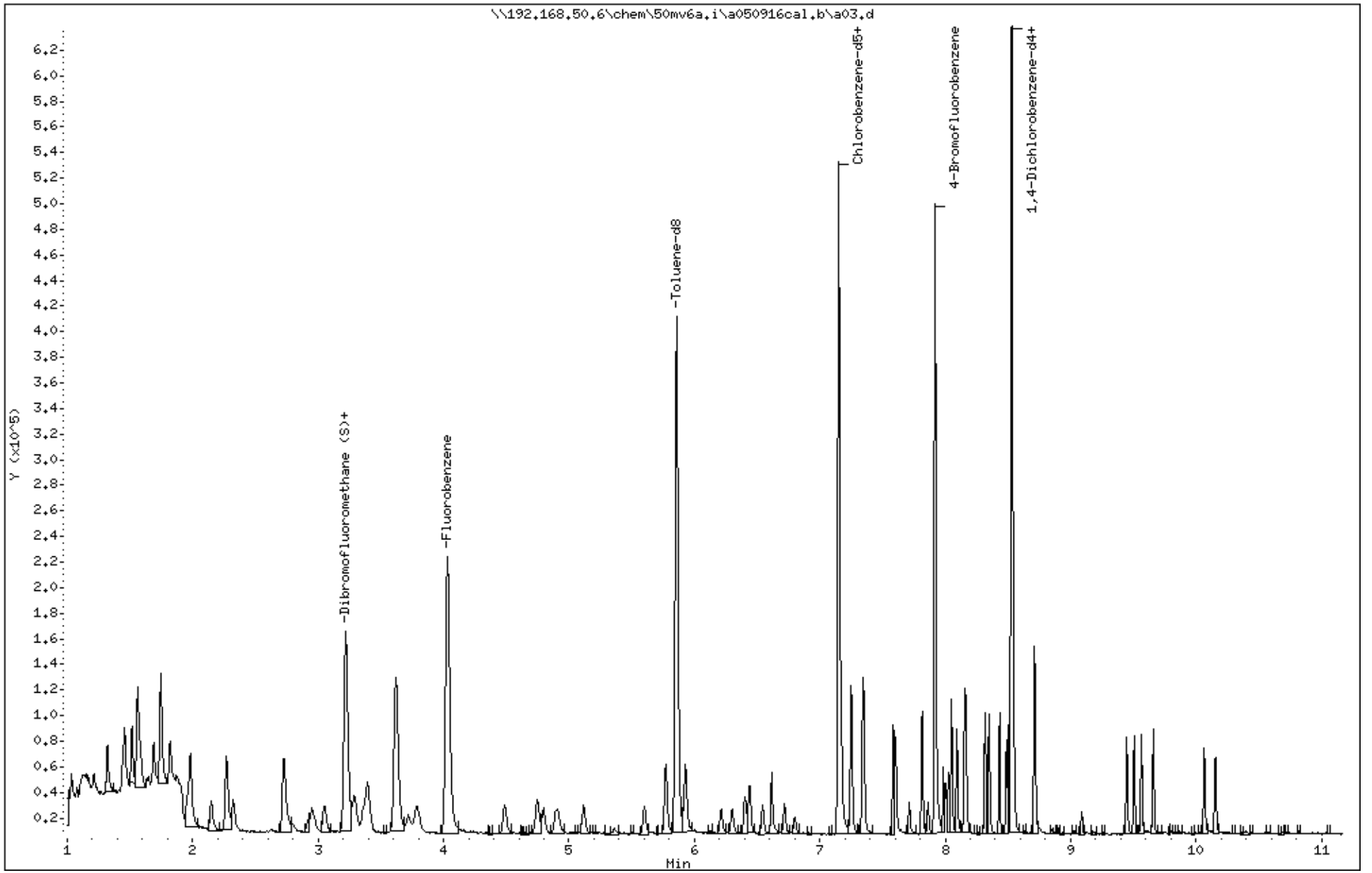
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.264	2.264	(0.561)	55973	20.0000	19.4
	23 1,1-Dichloroethane	63	2.275	2.275	(0.564)	17538	5.00000	5.08
	147 chloroprene	53	2.323	2.323	(0.576)	11771	5.00000	4.69
	28 2-Butanone	43	2.724	2.724	(0.675)	25738	25.0000	26.3(M)
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.675)	10205	5.00000	4.92
	27 2,2-Dichloropropane	77	2.729	2.730	(0.677)	14720	5.00000	4.54
	149 Propionitrile	54	2.783	2.783	(0.690)	1683	5.00000	6.97(QM)
	144 Methacrylonitrile	41	2.917	2.917	(0.723)	4823	5.00000	5.53(QM)
	30 Bromochloromethane	49	2.949	2.949	(0.731)	7129	5.00000	5.57
	31 Tetrahydrofuran	42	2.981	2.975	(0.739)	4095	5.00000	7.77(QM)
	32 Chloroform	83	3.050	3.056	(0.756)	16583	5.00000	4.89(M)
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	94000	50.0000	51.9
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.797)	16668	5.00000	4.82
	35 Cyclohexane	56	3.286	3.291	(0.814)	12800	5.00000	4.63(M)
	150 n-Butyl chloride	56	3.355	3.355	(0.832)	14306	5.00000	4.52
	36 Carbon Tetrachloride	117	3.393	3.393	(0.841)	14257	5.00000	4.97
	37 1,1-Dichloropropene	75	3.393	3.393	(0.841)	10764	5.00000	4.56
	39 Benzene	78	3.628	3.628	(0.899)	30757	5.00000	4.98
	40 1,2-Dichloroethane	62	3.719	3.714	(0.922)	11680	5.00000	5.12
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.939)	26416	5.00000	4.64
	38 Isobutyl alcohol	43	3.783	3.783	(0.938)	5338	5.00000	4.65(QM)
*	41 Fluorobenzene	96	4.035	4.035	(1.000)	253988	50.0000	
	42 Trichloroethene	95	4.489	4.490	(1.113)	8705	5.00000	4.67
	43 Methylcyclohexane	55	4.746	4.741	(1.176)	8381	5.00000	4.17(QM)
	44 1,2-Dichloropropane	63	4.800	4.794	(1.190)	8015	5.00000	5.01(M)
	45 Dibromomethane	93	4.896	4.896	(1.213)	6464	5.00000	5.30
	142 1,4-Dioxane	88	4.912	4.907	(1.217)	2200	100.000	108(QM)
	46 Methyl methacrylate	69	4.917	4.912	(1.219)	4584	5.00000	4.30(M)
	47 Bromodichloromethane	83	5.115	5.115	(1.268)	12303	5.00000	5.11(M)
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	12018	5.00000	4.03
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	36304	25.0000	24.6
$	51 Toluene-d8	98	5.859	5.859	(0.819)	252051	50.0000	49.9
	52 Toluene	91	5.929	5.929	(0.829)	33163	5.00000	4.50
	53 trans-1,3-Dichloropropene	75	6.217	6.223	(0.869)	10437	5.00000	3.88
	54 Ethyl Methacrylate	69	6.303	6.298	(0.881)	8080	5.00000	4.36(M)
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	5903	5.00000	4.29(M)
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	9011	5.00000	4.60
	57 1,3-Dichloropropane	76	6.544	6.544	(0.915)	10623	5.00000	4.75
	58 2-Hexanone	43	6.613	6.613	(0.924)	27140	25.0000	26.0(M)
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	8583	5.00000	4.47
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	7005	5.00000	4.70
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	194440	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	21391	5.00000	4.73
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	7450	5.00000	4.56
	64 Ethylbenzene	106	7.255	7.255	(1.014)	11588	5.00000	4.90
	65 m&p-Xylene	106	7.346	7.346	(1.027)	29444	10.0000	10.2
	67 o-Xylene	106	7.587	7.592	(1.061)	13770	5.00000	4.86
	68 Styrene	104	7.608	7.608	(1.064)	24069	5.00000	4.95
	69 Bromoform	173	7.715	7.710	(0.904)	7071	5.00000	4.32
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	37028	5.00000	4.89
$	72 4-Bromofluorobenzene	95	7.913	7.919	(1.106)	95848	50.0000	51.5
	74 Bromobenzene	77	7.983	7.983	(1.116)	13329	5.00000	4.66
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	10680	5.00000	5.69
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	2973	5.00000	5.26(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	2582	5.00000	4.53
76	n-Propylbenzene	91	8.052	8.052	(0.944)	42734	5.00000	4.92
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	24184	5.00000	4.73
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	26180	5.00000	4.60
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	9151	5.00000	4.76
80	tert-Butylbenzene	119	8.314	8.315	(0.974)	29552	5.00000	4.69(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	26548	5.00000	4.61
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	35487	5.00000	4.59
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	16918	5.00000	4.73
84	p-Isopropyltoluene	119	8.512	8.513	(0.997)	29191	5.00000	4.60
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	106279	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	17980	5.00000	4.81
87	n-Butylbenzene	91	8.710	8.710	(1.021)	28793	5.00000	4.45
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	16826	5.00000	5.01
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	2148	5.00000	5.31
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	12485	5.00000	4.90
91	Hexachlorobutadiene	225	9.507	9.508	(1.114)	7073	5.00000	4.65
92	Naphthalene	128	9.566	9.566	(1.121)	34209	5.00000	4.56
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	12173	5.00000	4.82
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	18995	5.00000	4.74
148	1-Methylnaphthalene	141	10.155	10.155	(1.190)	16446	5.00000	4.76

QC Flag Legend

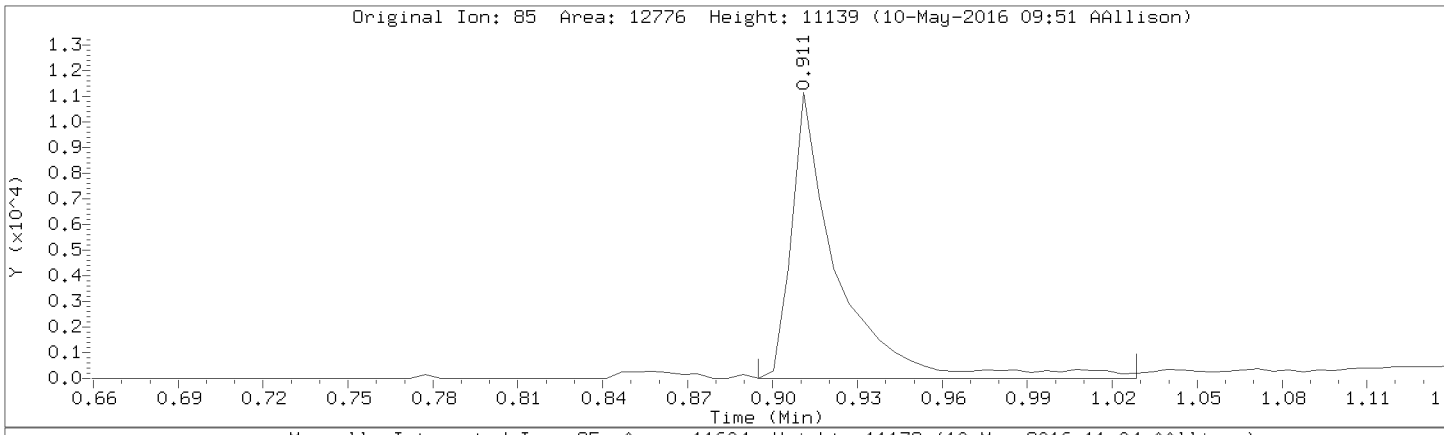
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

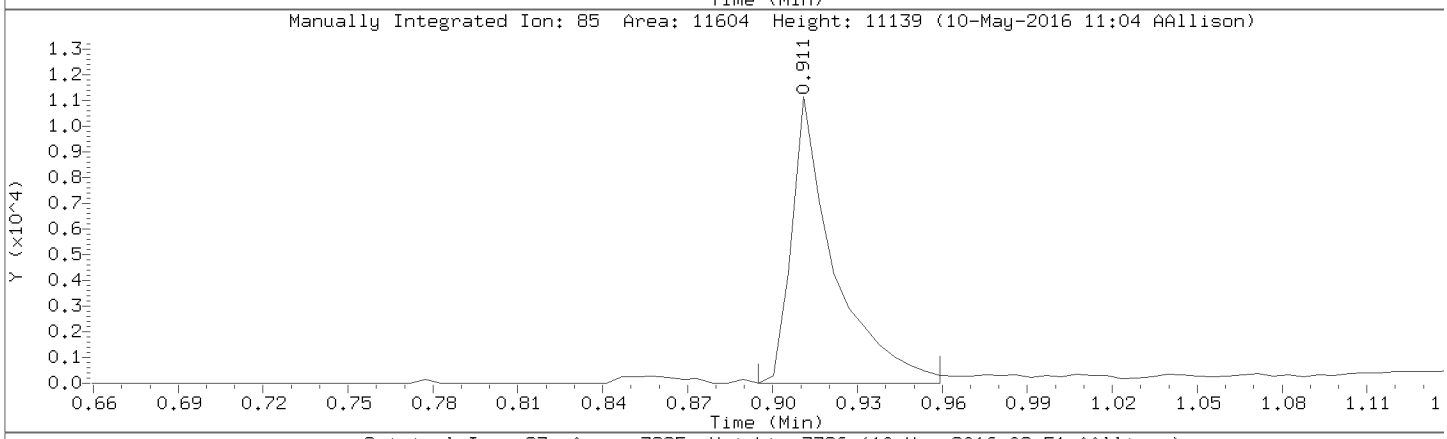
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a03.d
Date : 09-MAY-2016 20:52
Client ID: 8260-CAL3
Instrument: 50mv6a.i
Sample Info: 8260-CAL3,121031:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

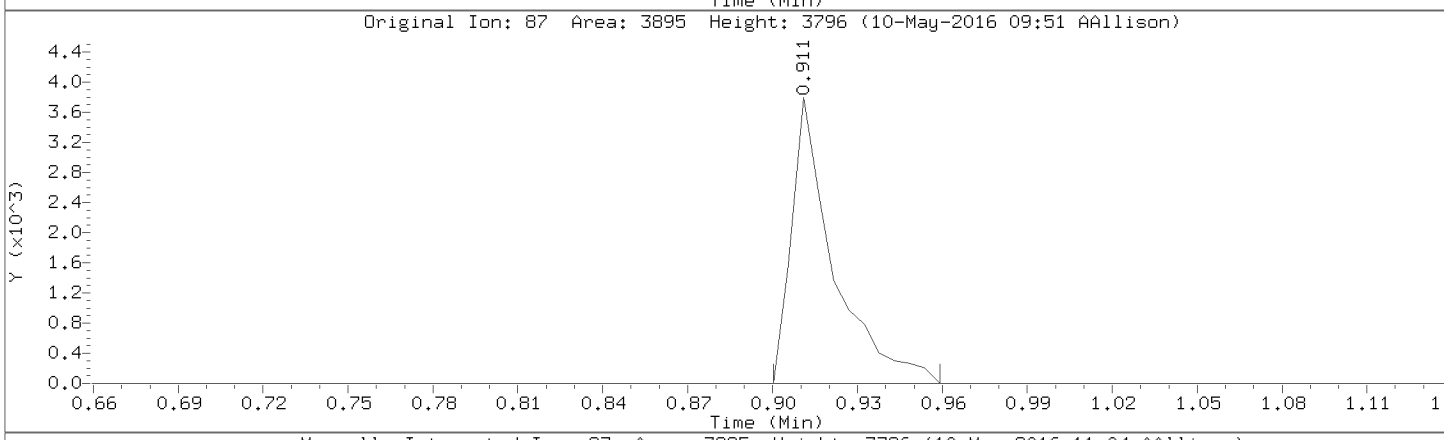


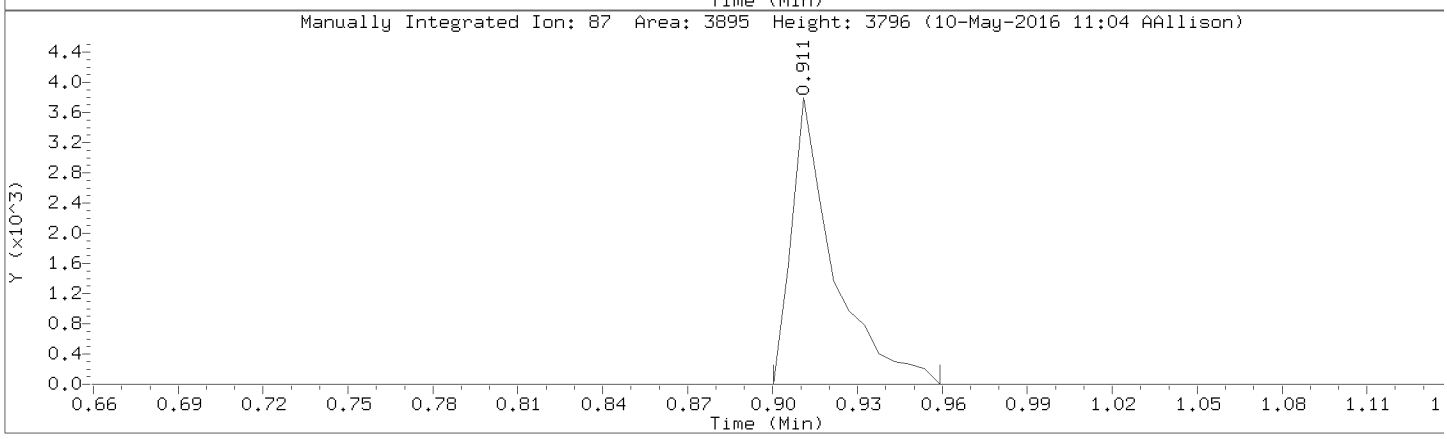
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Dichlorodifluoromethane Review Code: GT
CAS Number: 75-71-8

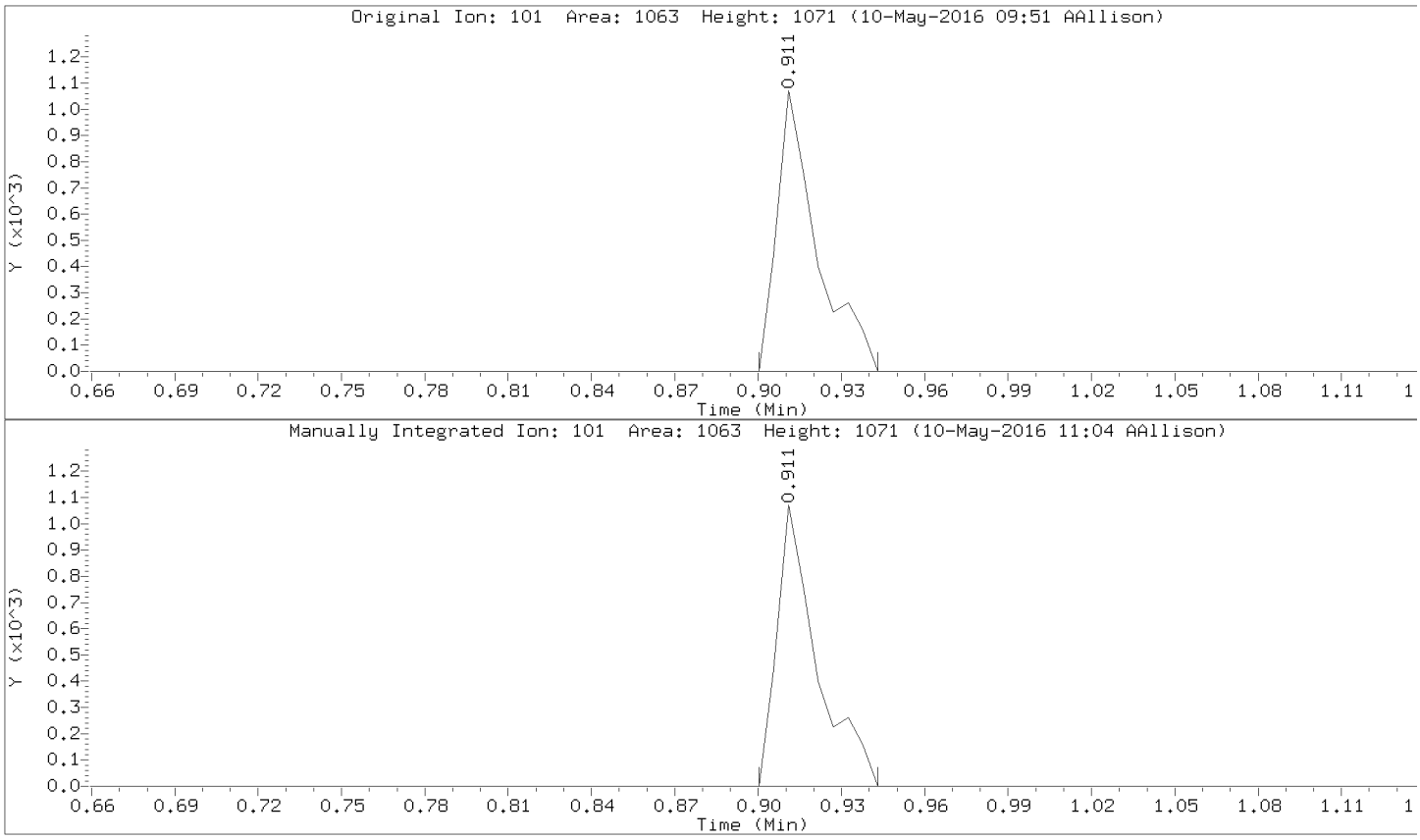






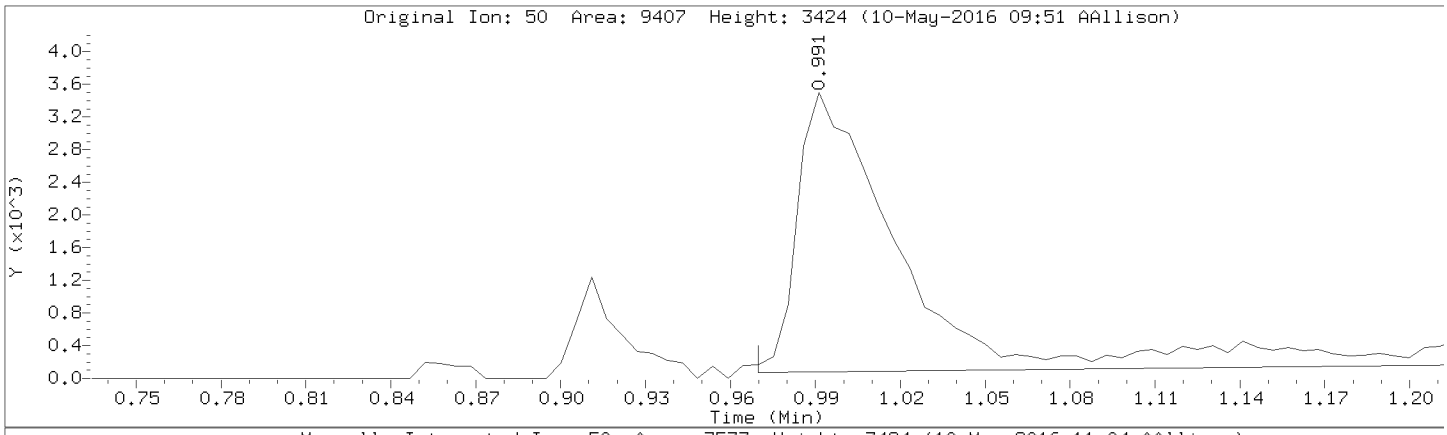


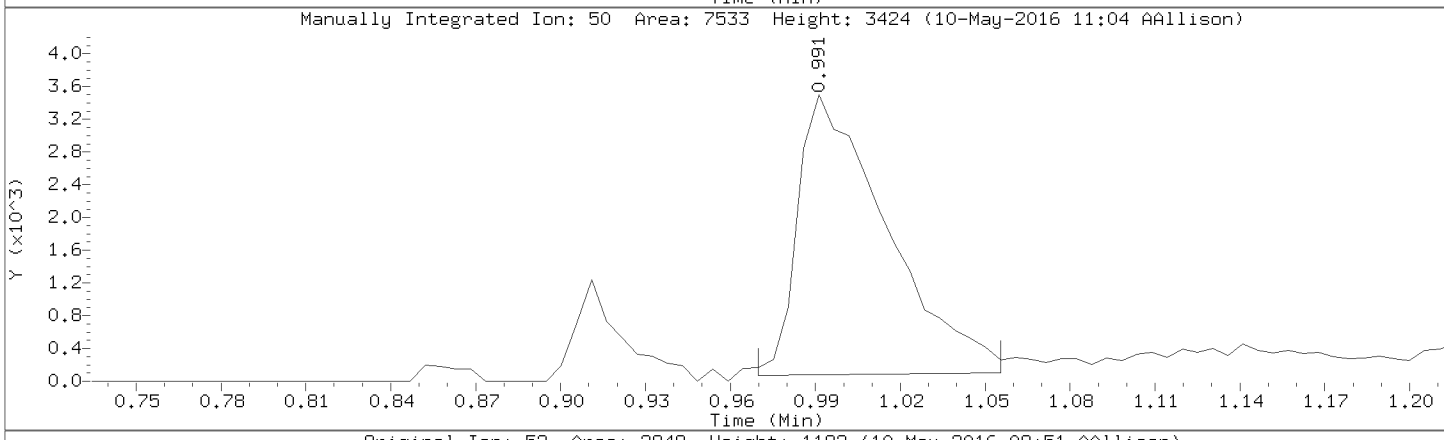
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

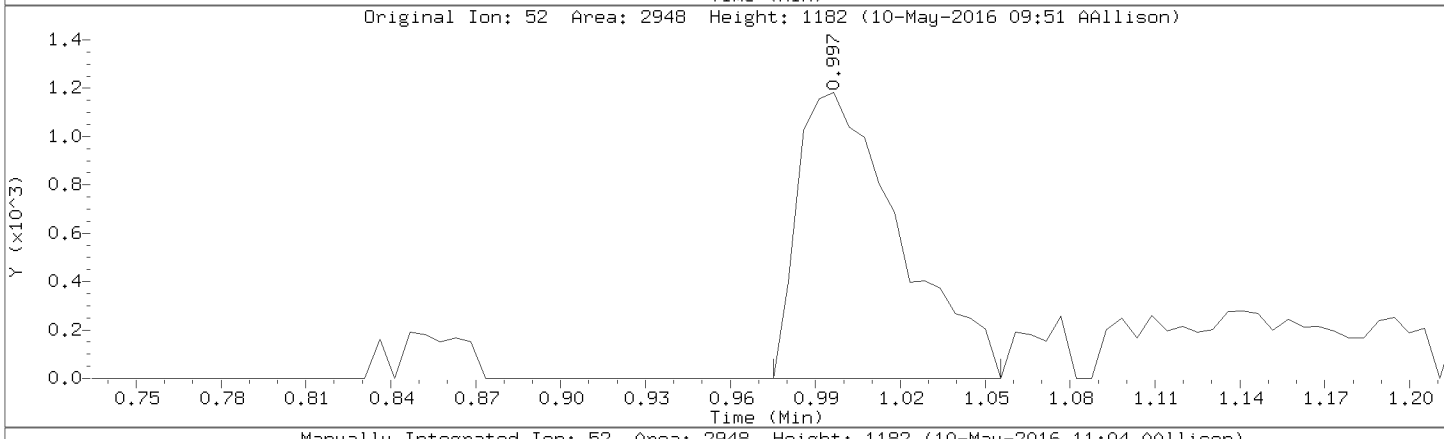


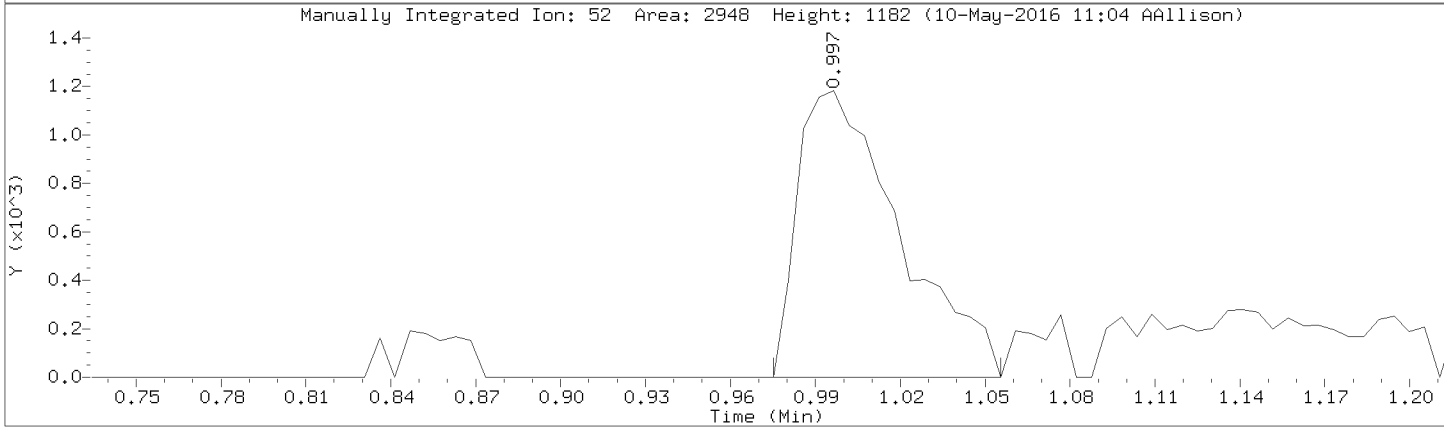
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Chloromethane Review Code: GT
CAS Number: 74-87-3



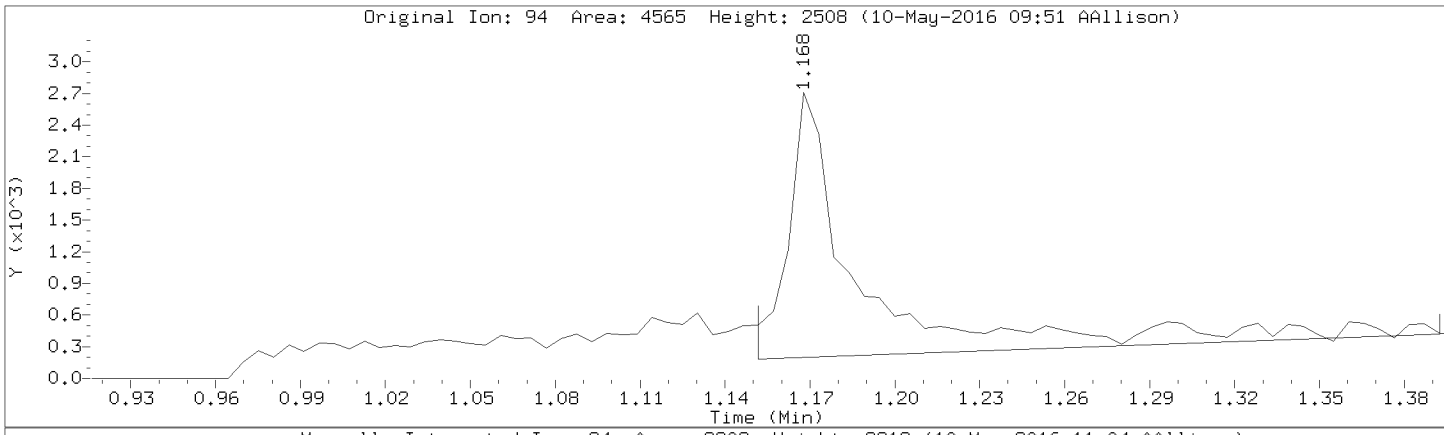


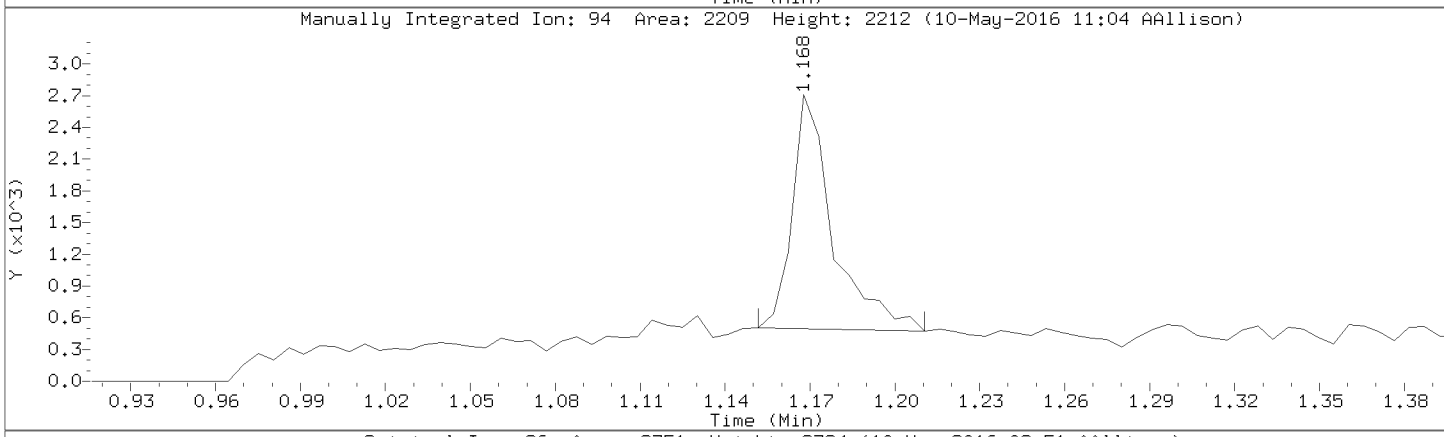


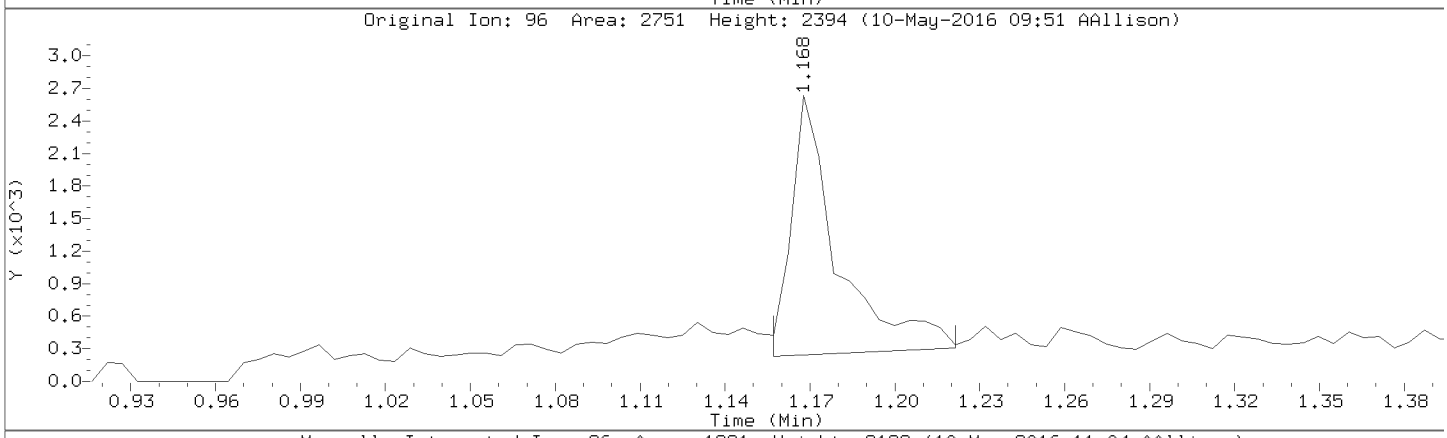


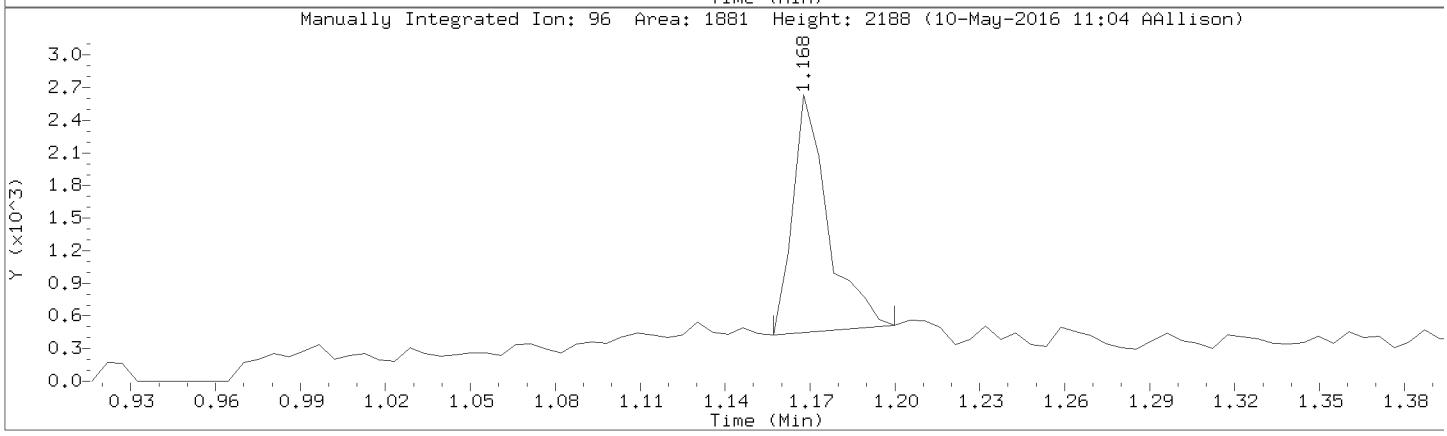
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



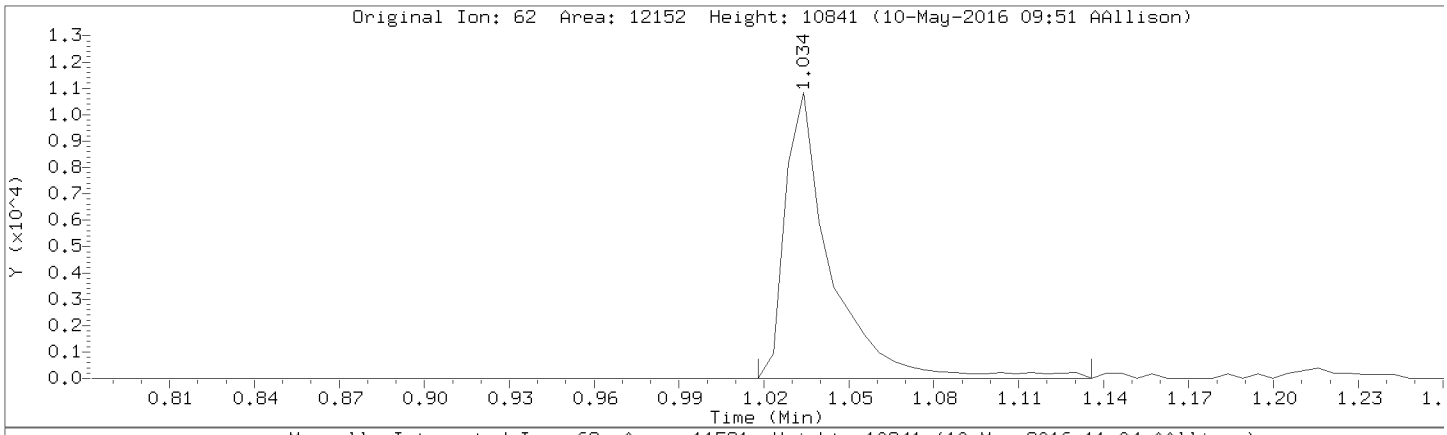


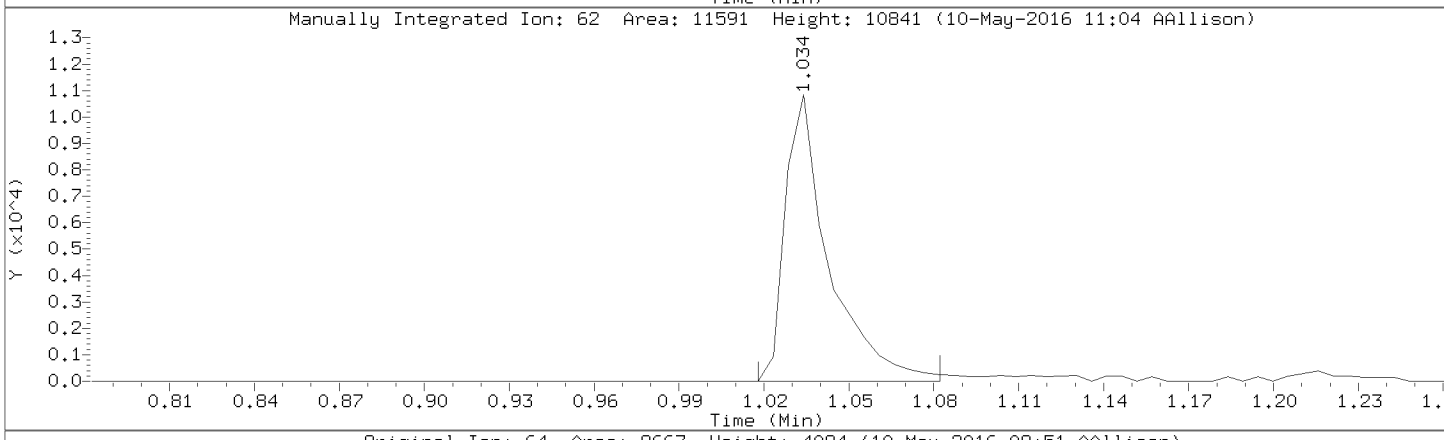


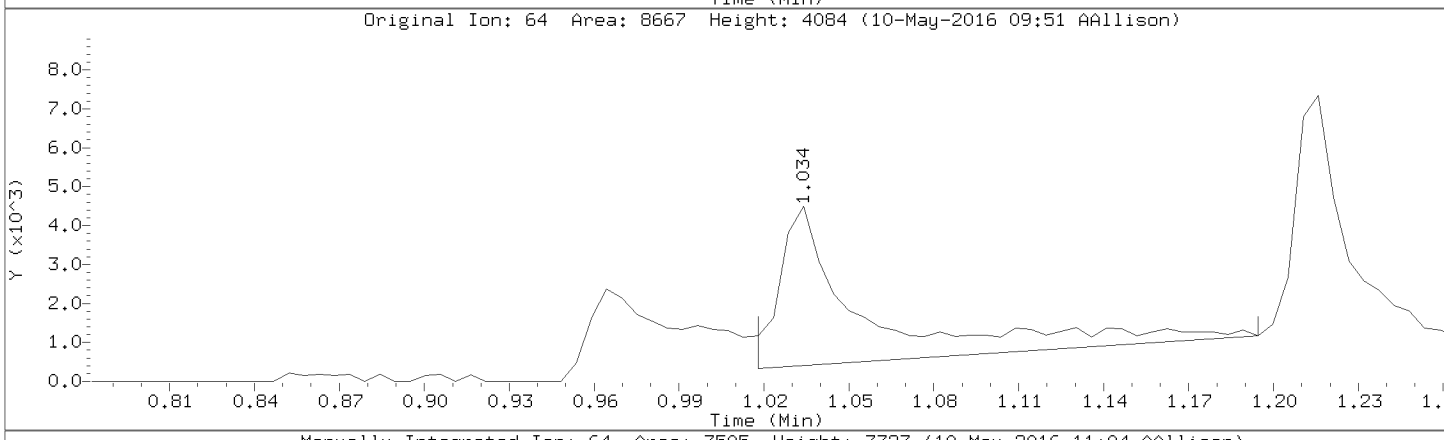


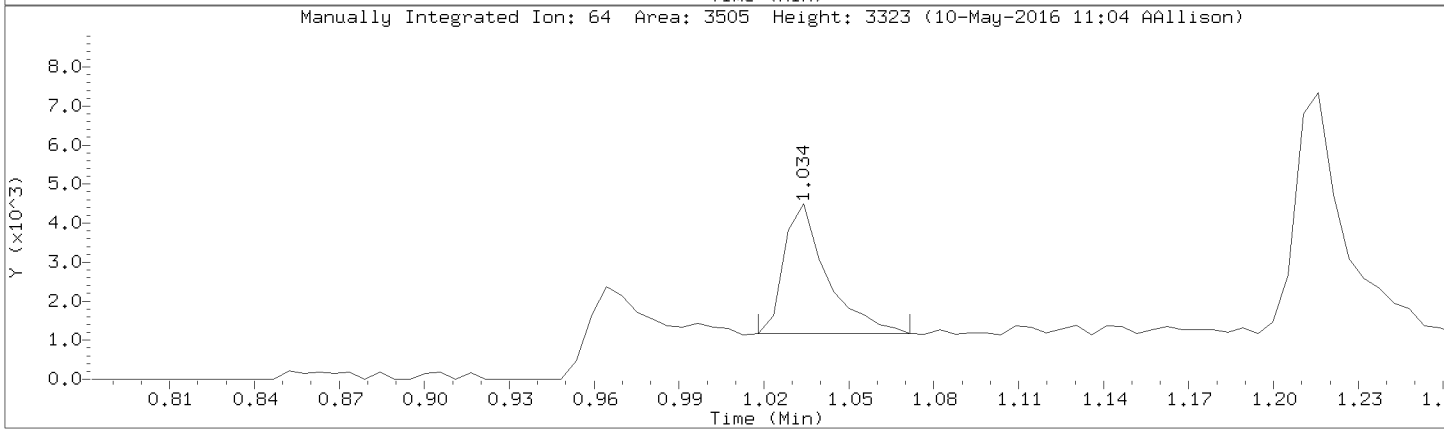
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Vinyl Chloride Review Code: GT
CAS Number: 75-01-4



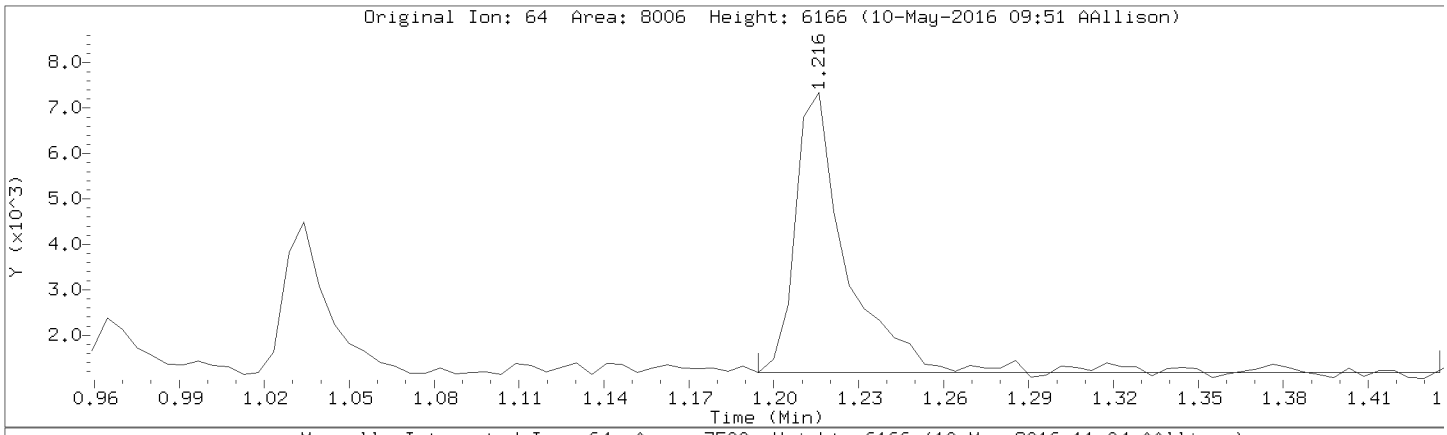


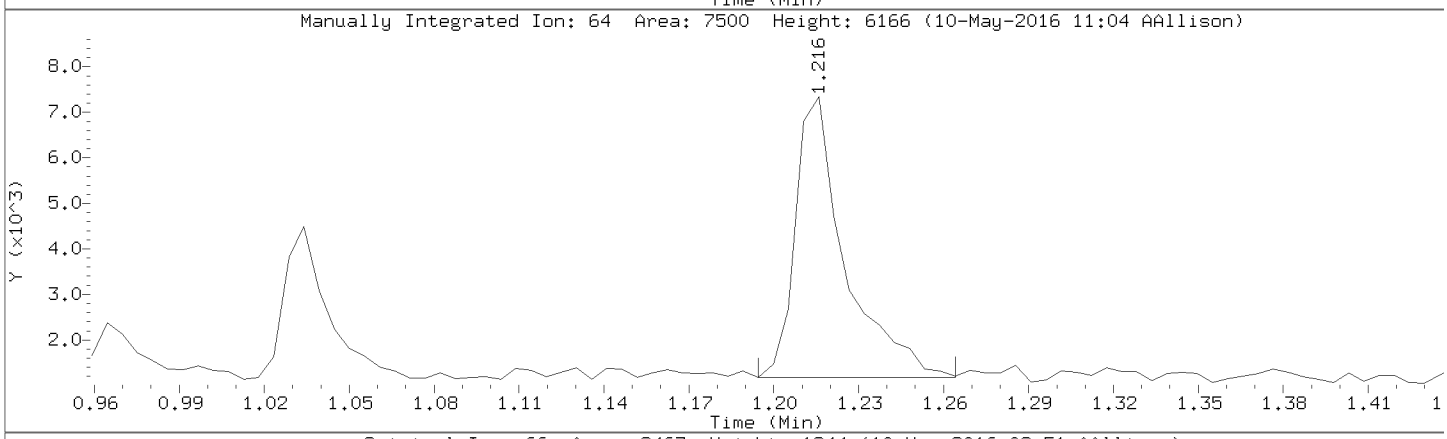


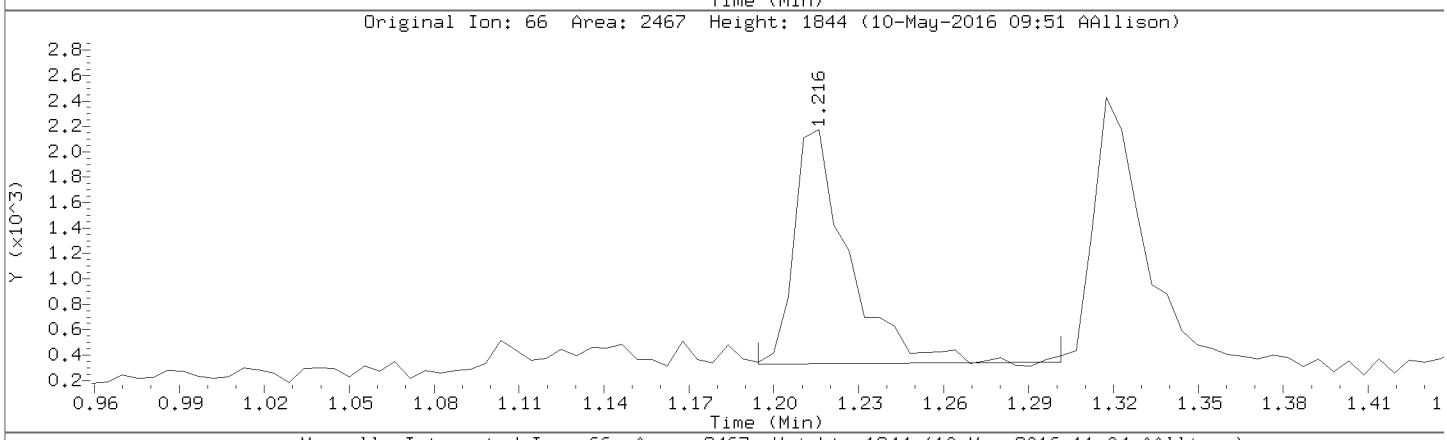


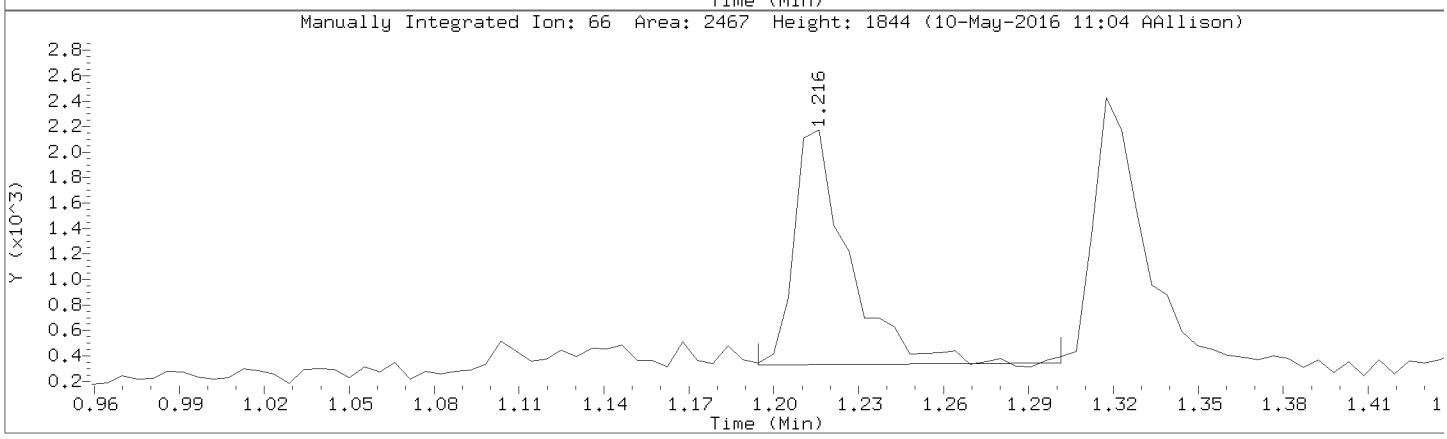
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3



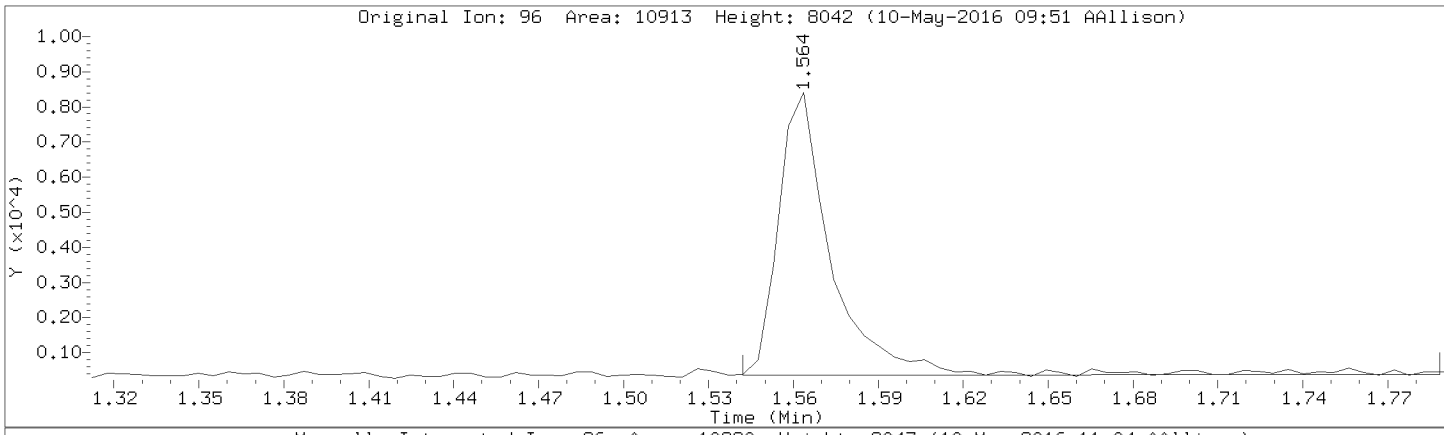


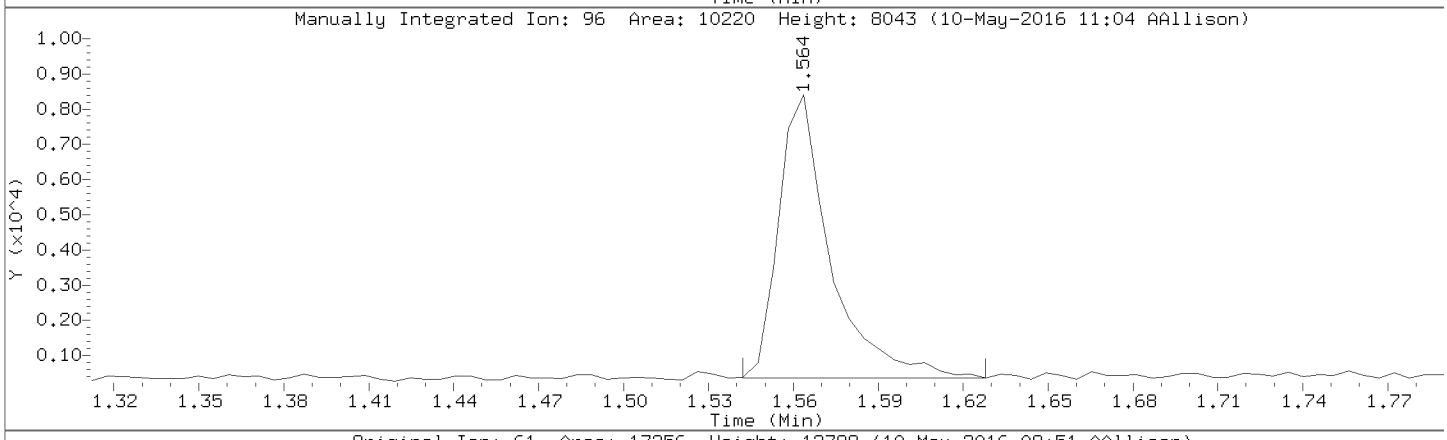


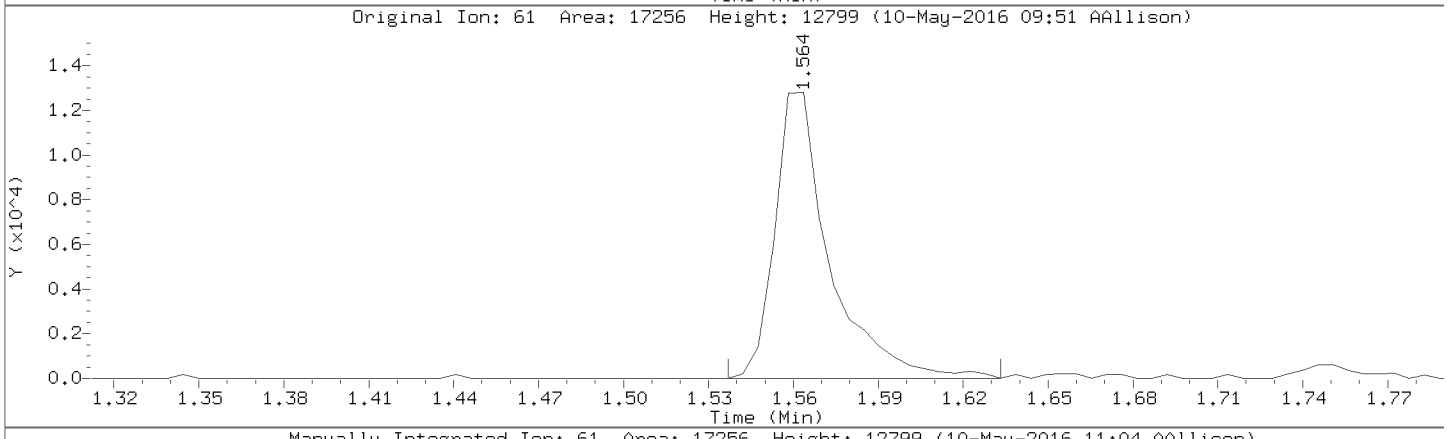


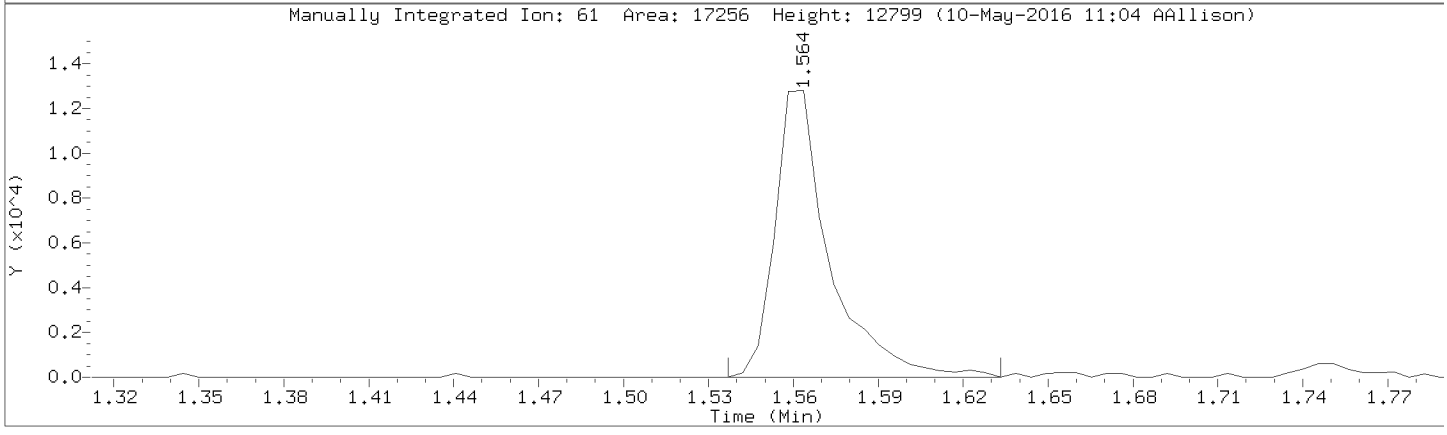
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 1,1-Dichloroethene Review Code: GT
CAS Number: 75-35-4

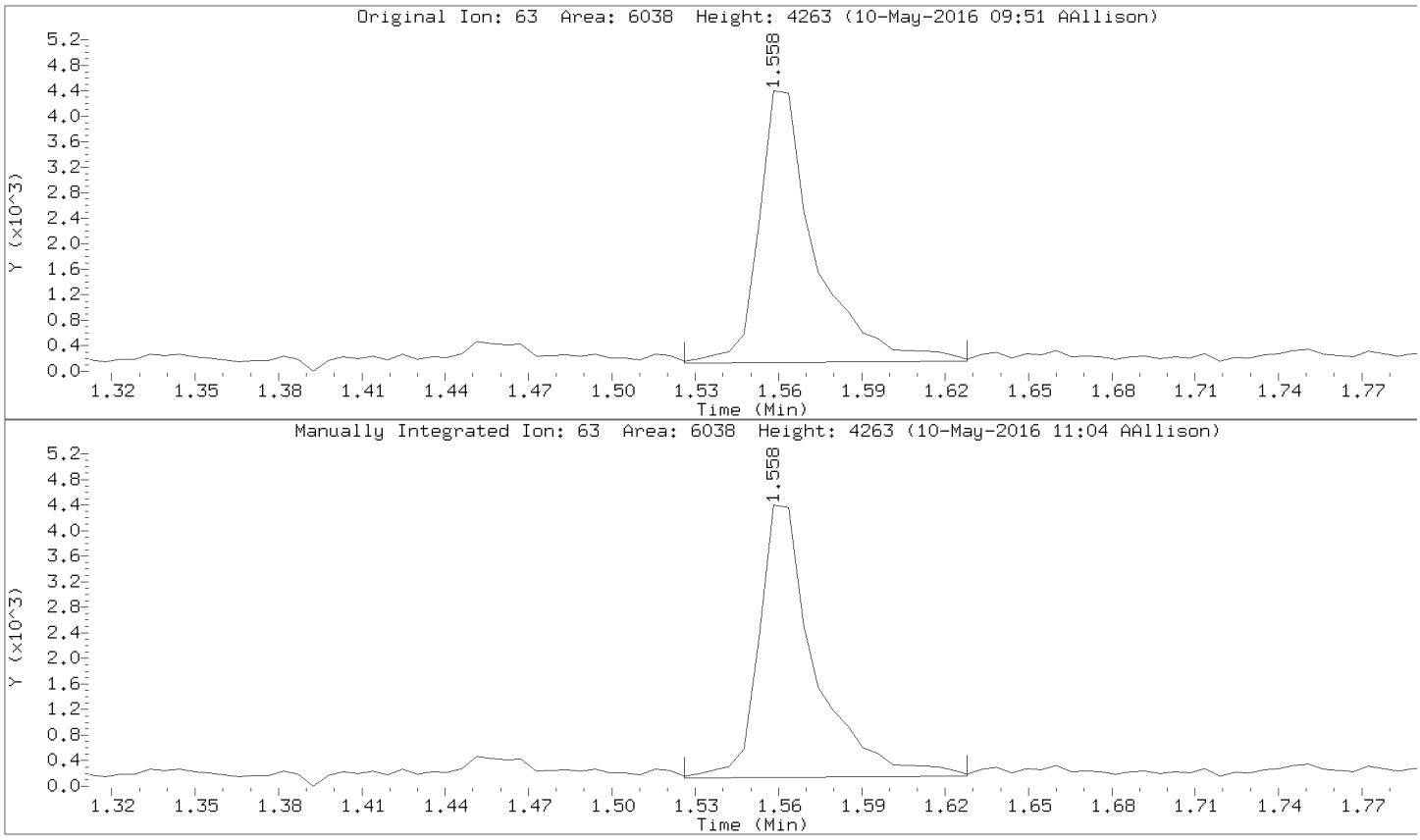






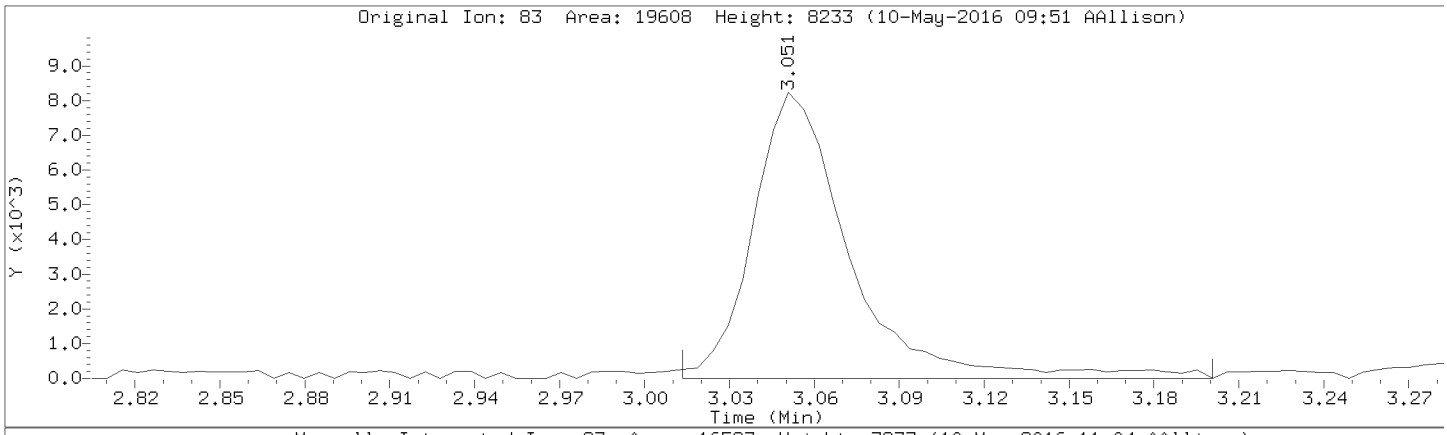


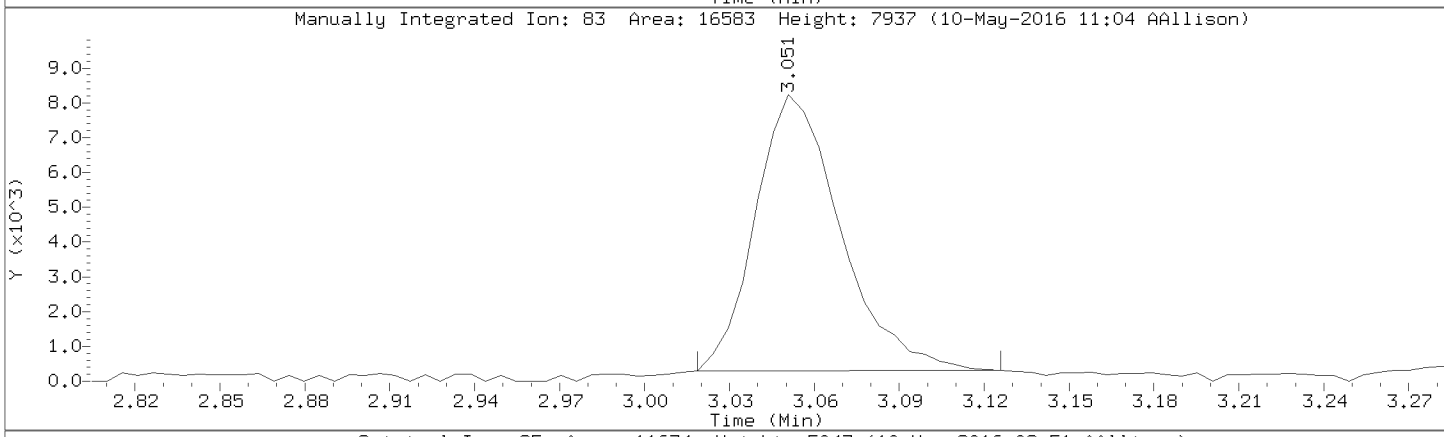
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

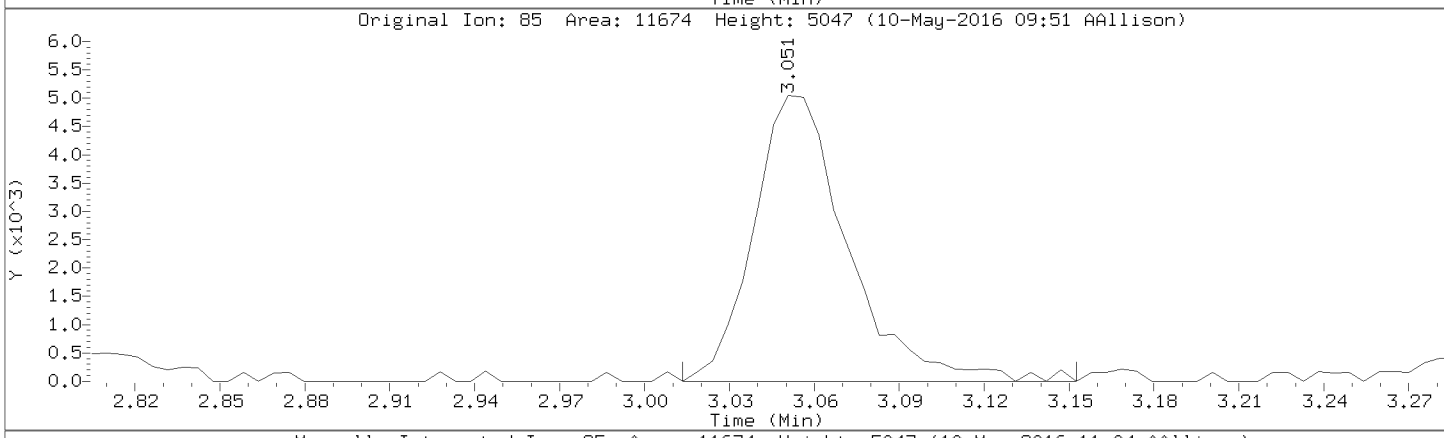


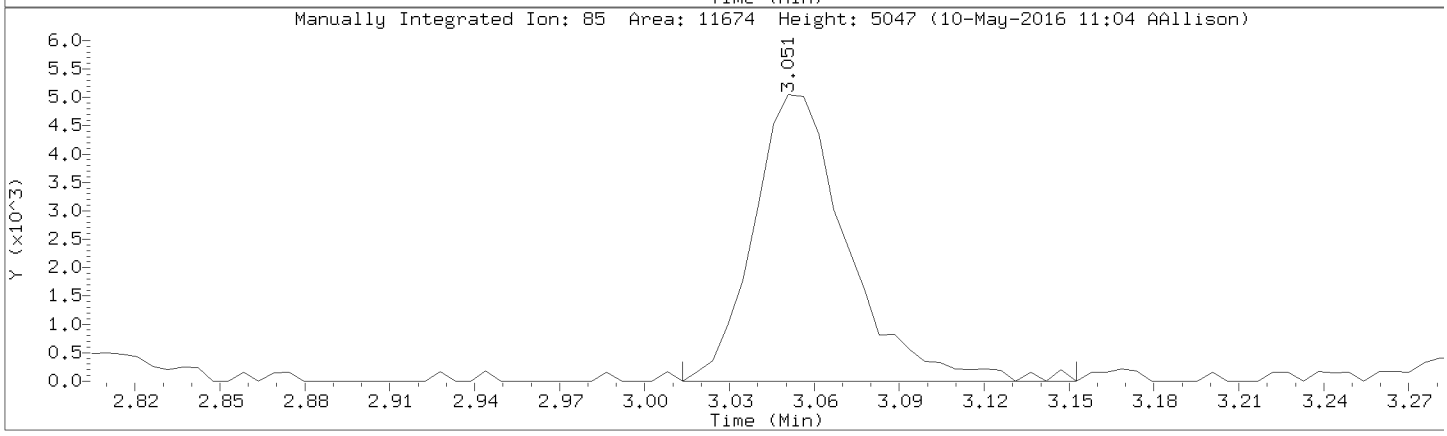
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Chloroform Review Code: GT
CAS Number: 67-66-3



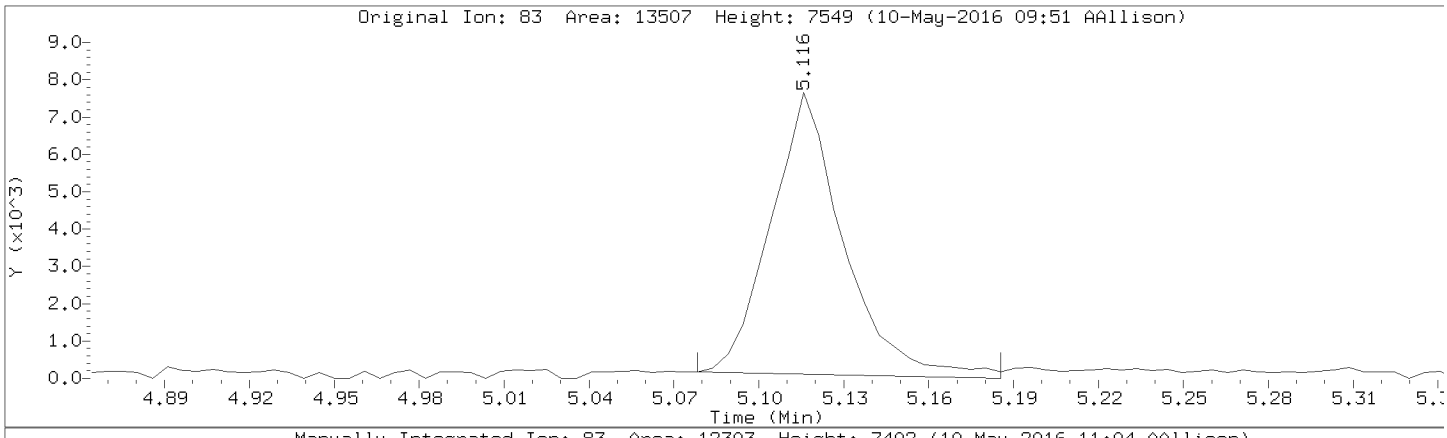


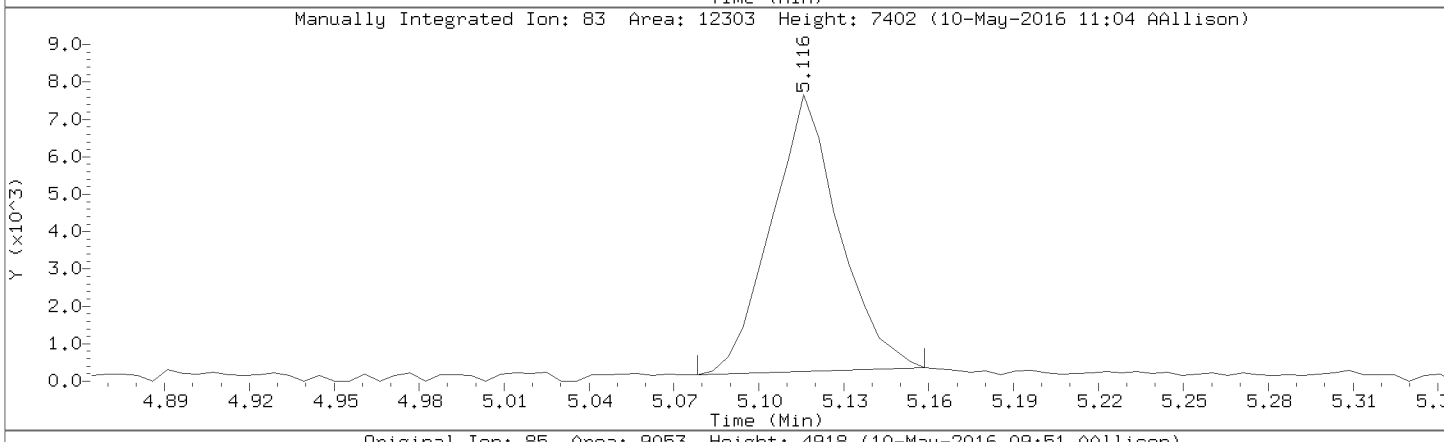


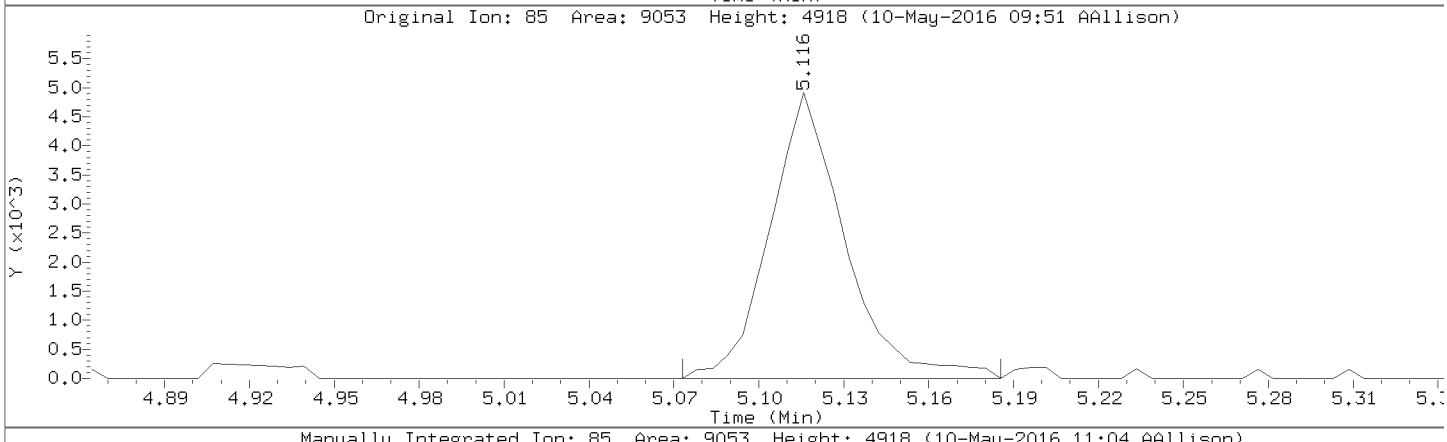


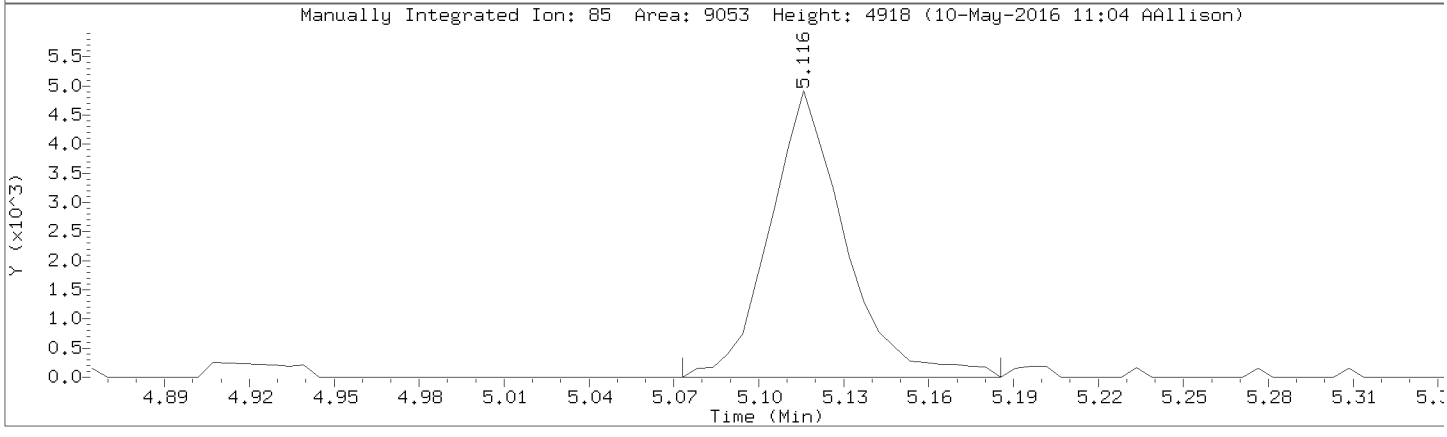
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Bromodichloromethane Review Code: GT
CAS Number: 75-27-4

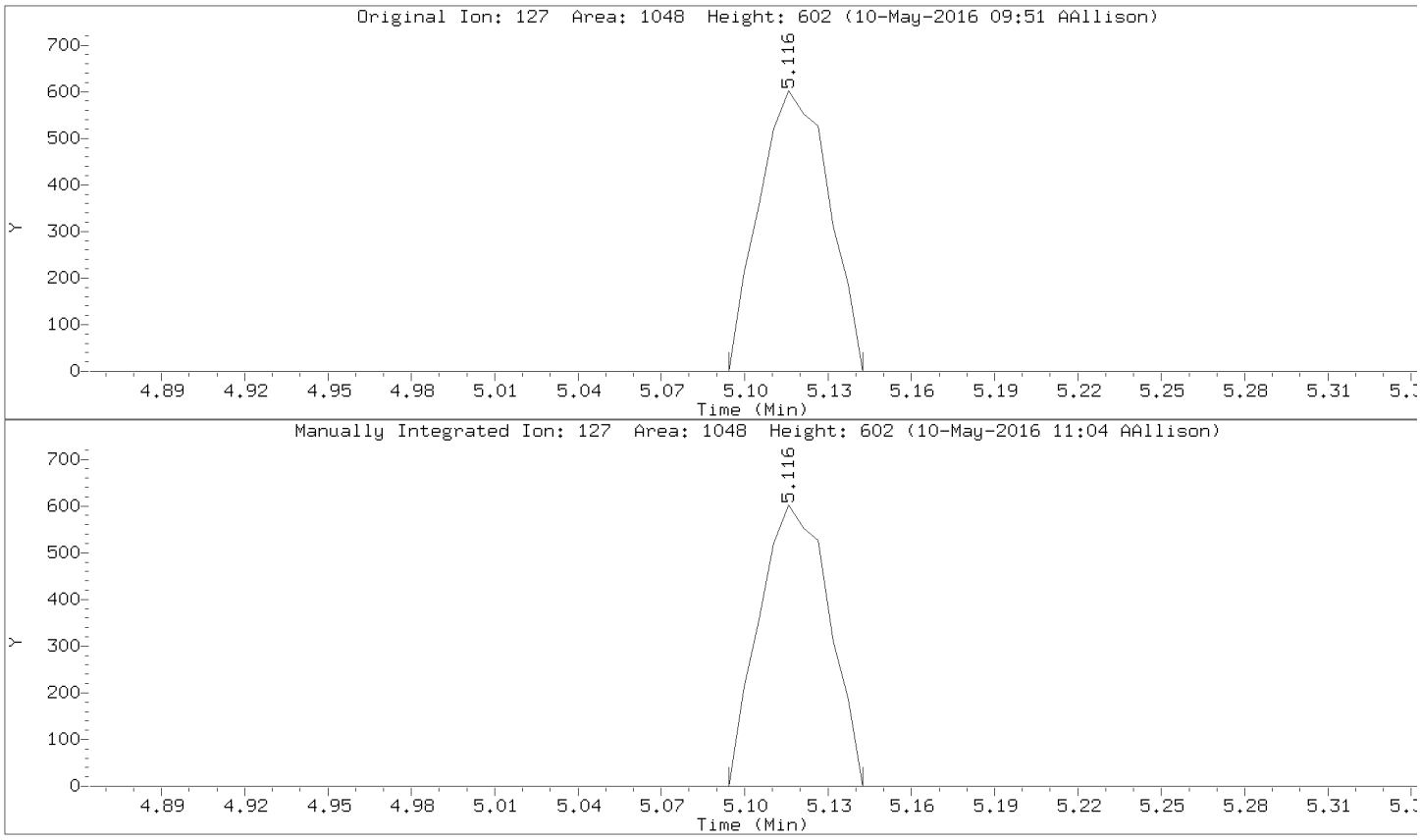






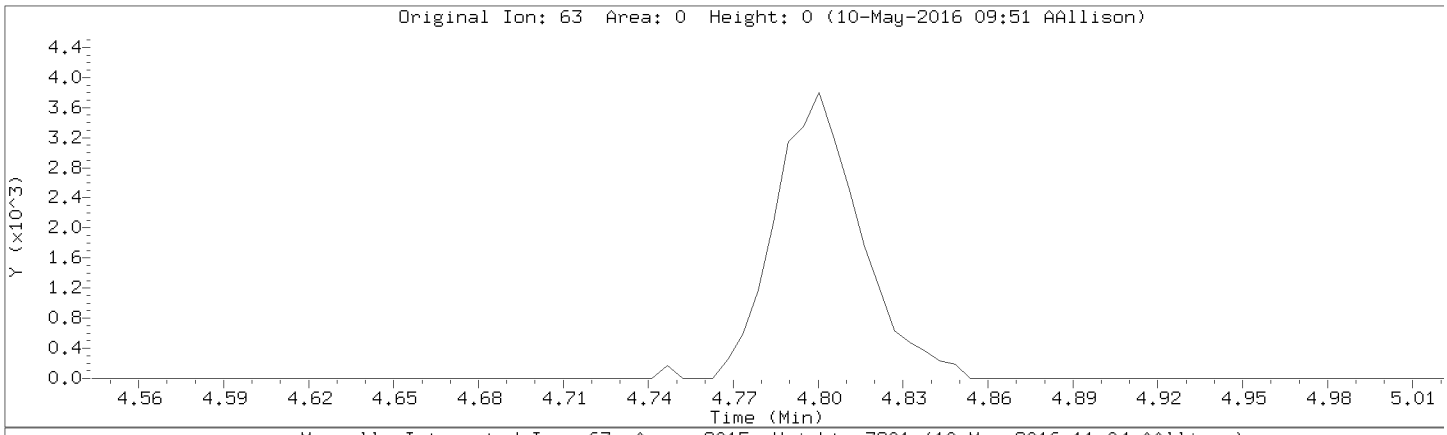


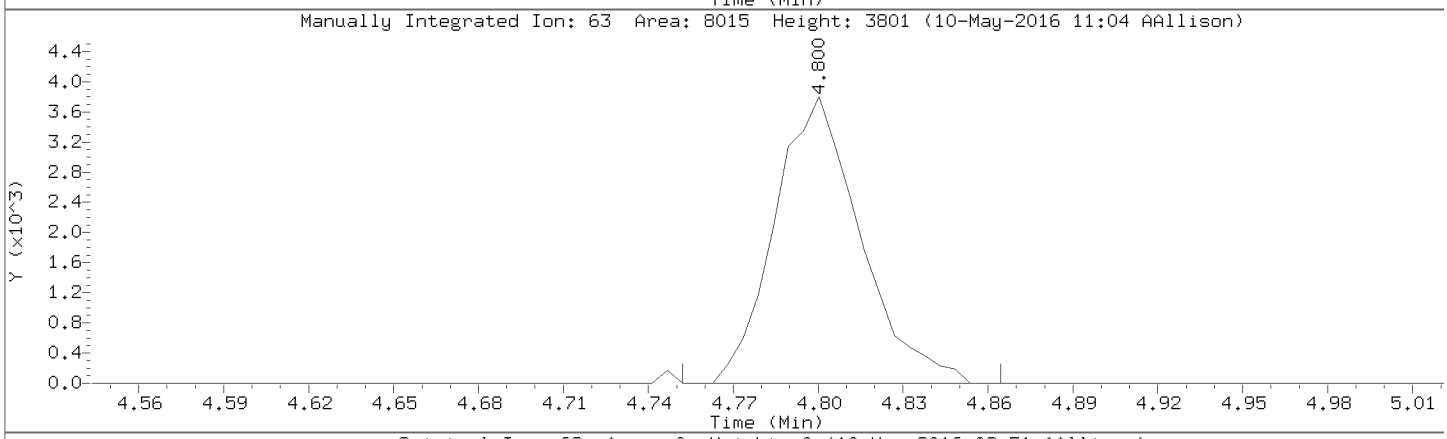
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

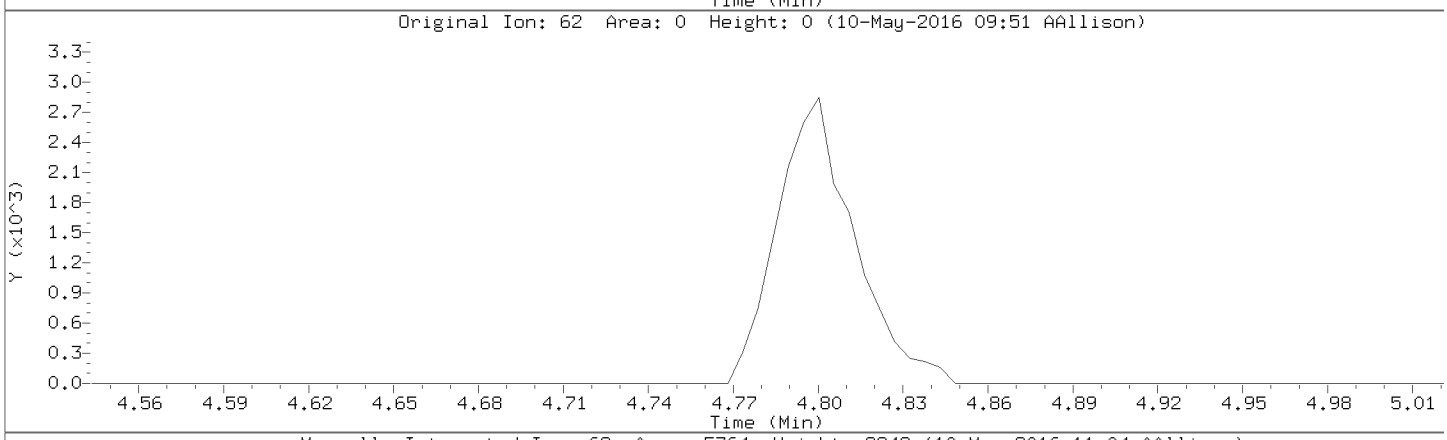


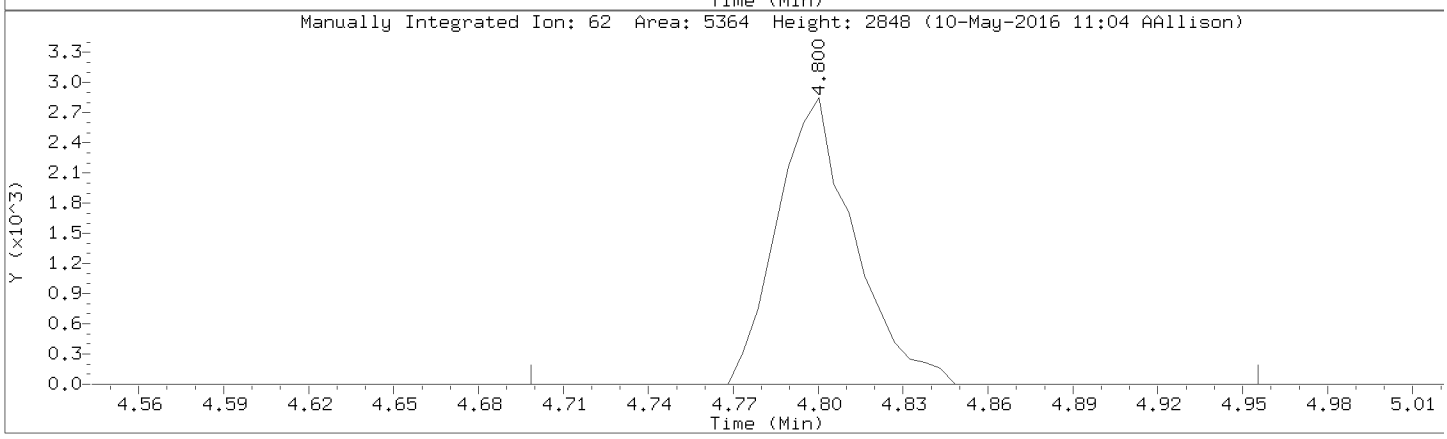
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 1,2-Dichloropropane Review Code: NI
CAS Number: 78-87-5

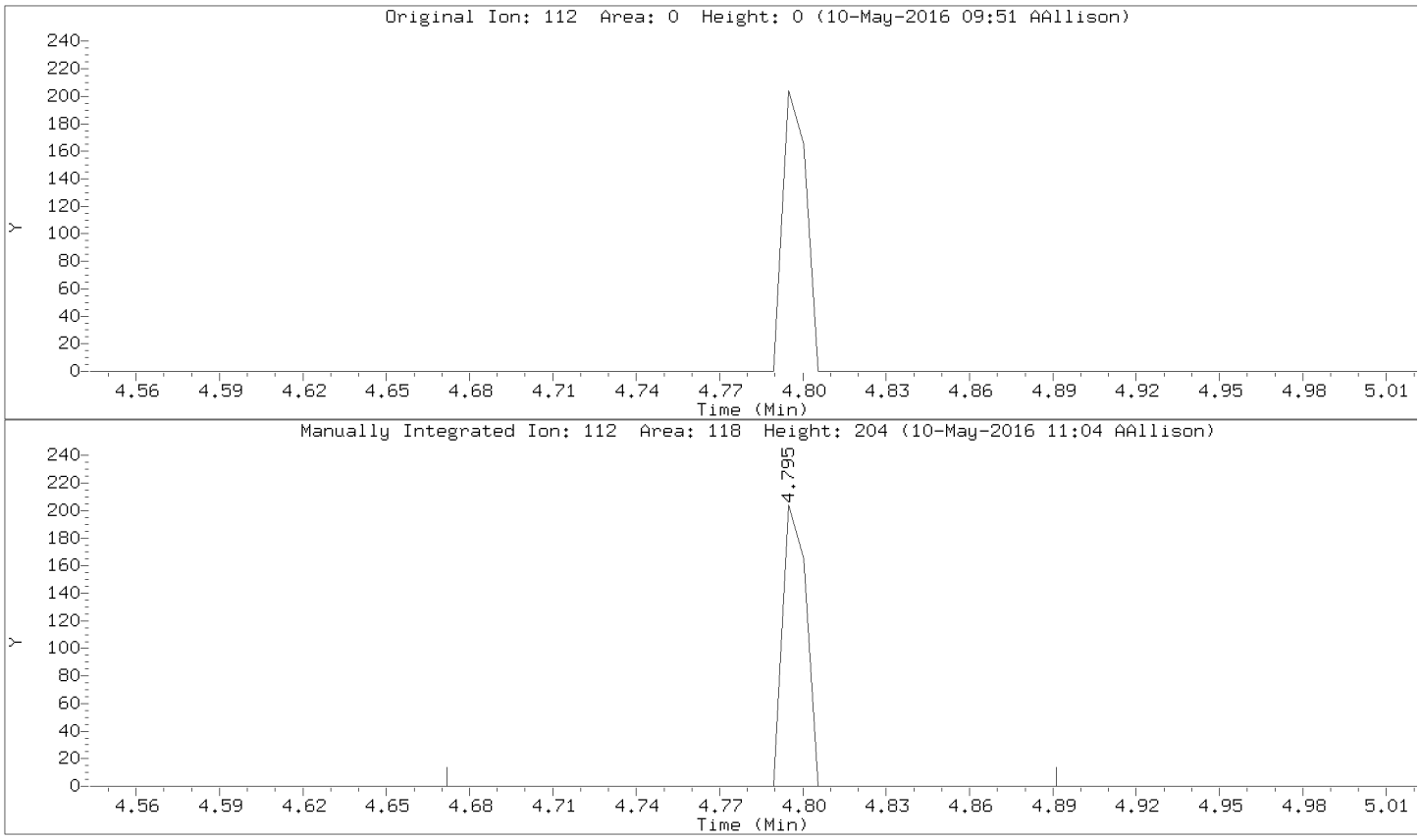






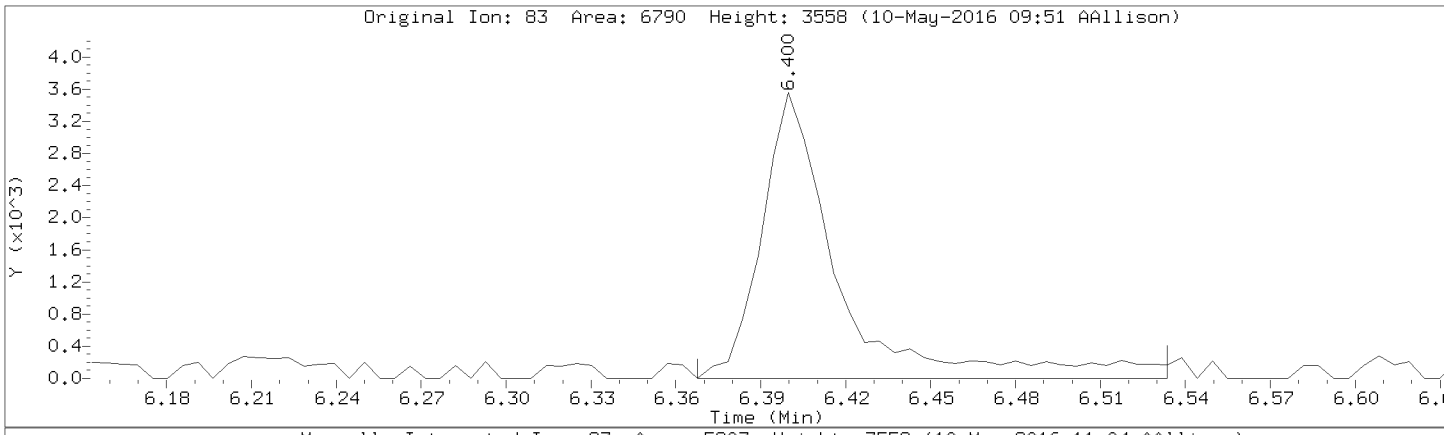


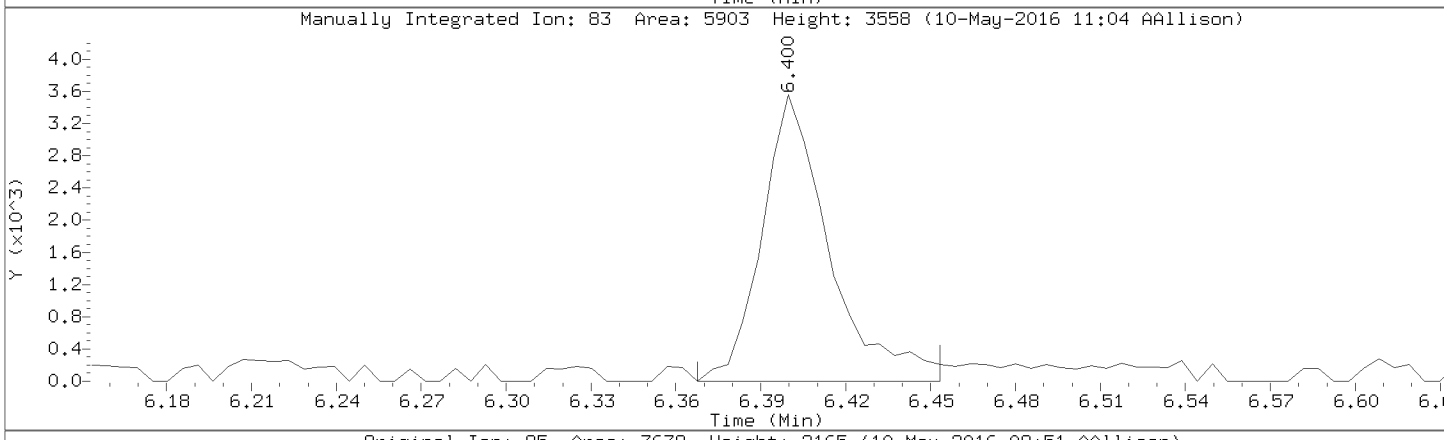
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

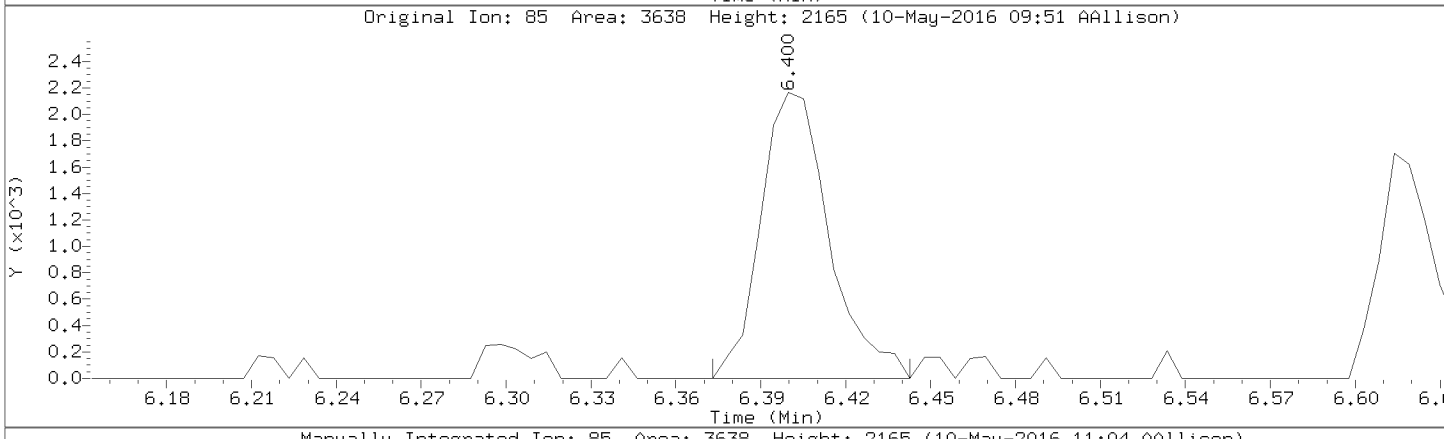


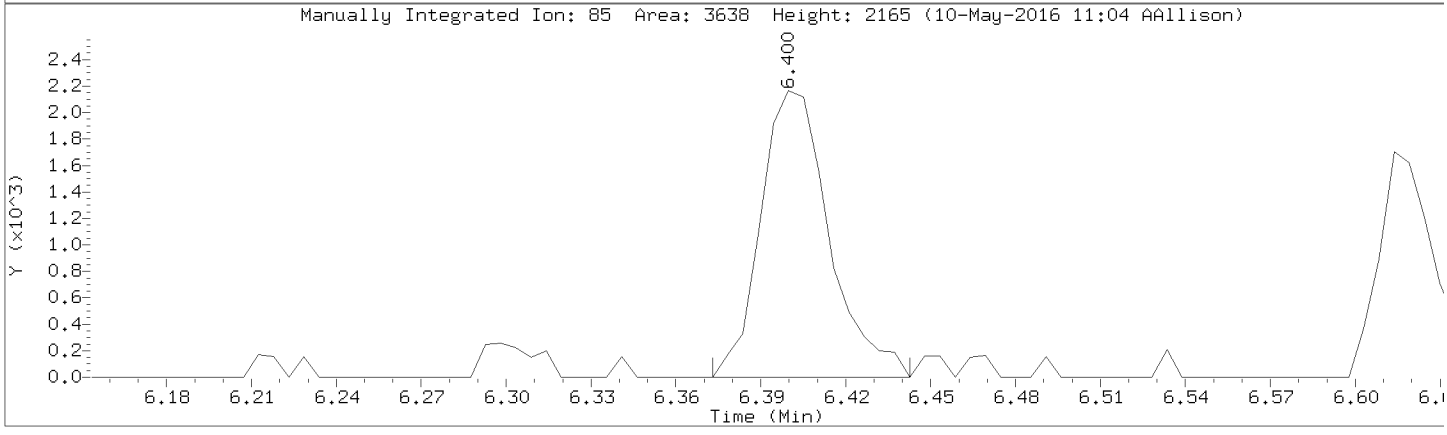
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 1,1,2-Trichloroethane Review Code: GT
CAS Number: 79-00-5

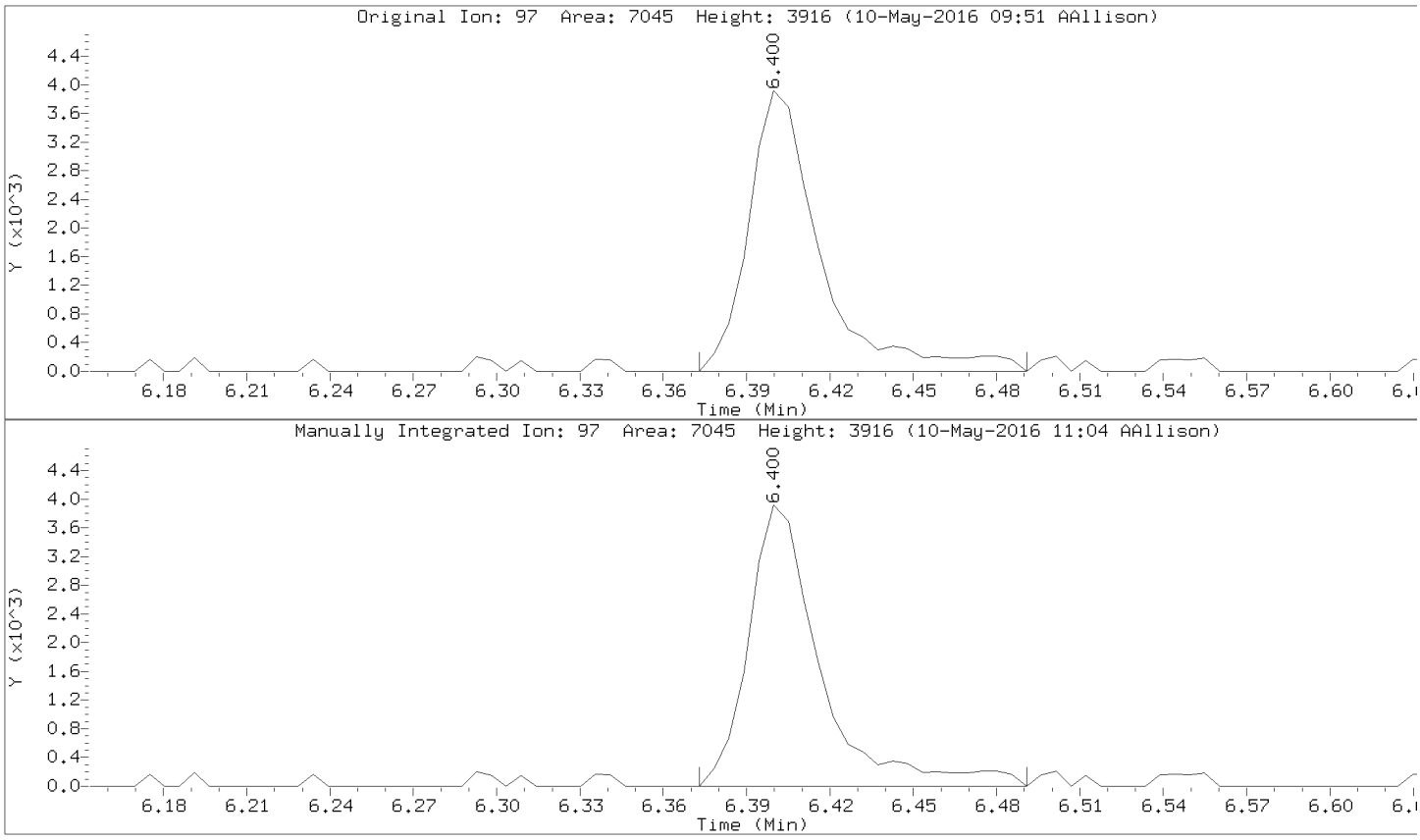






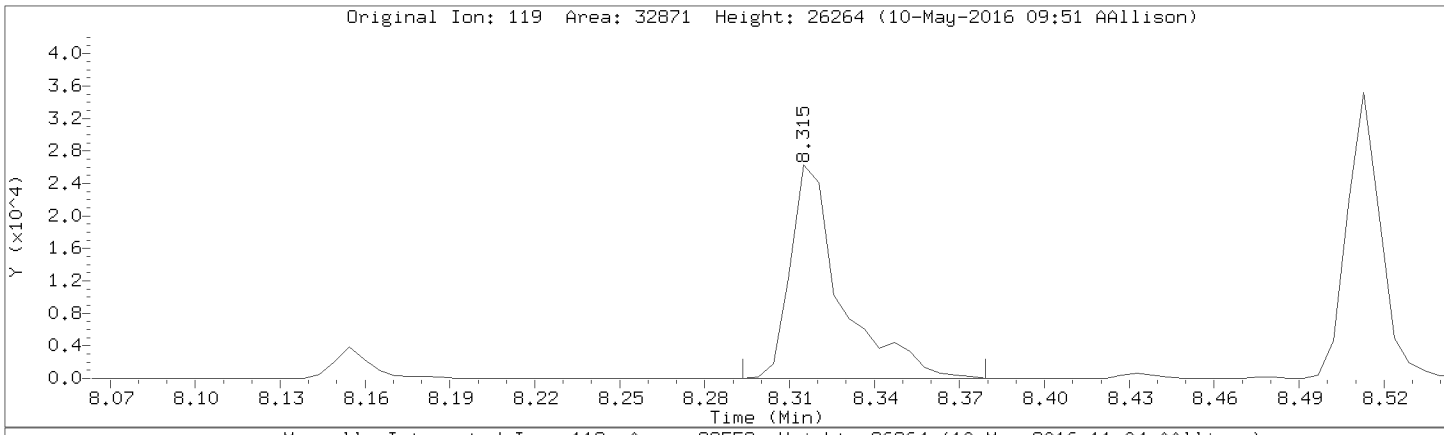


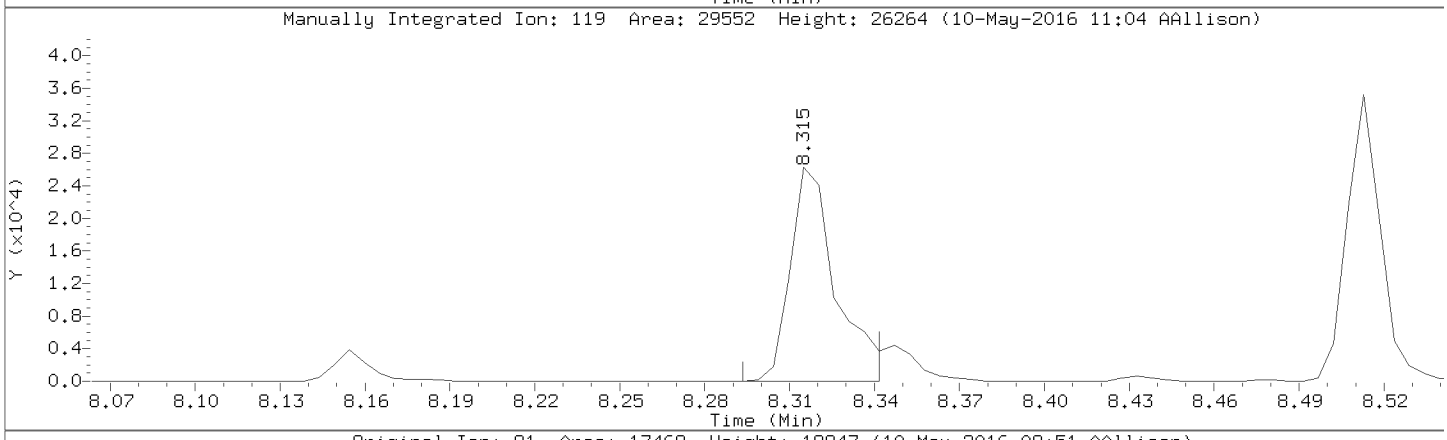
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

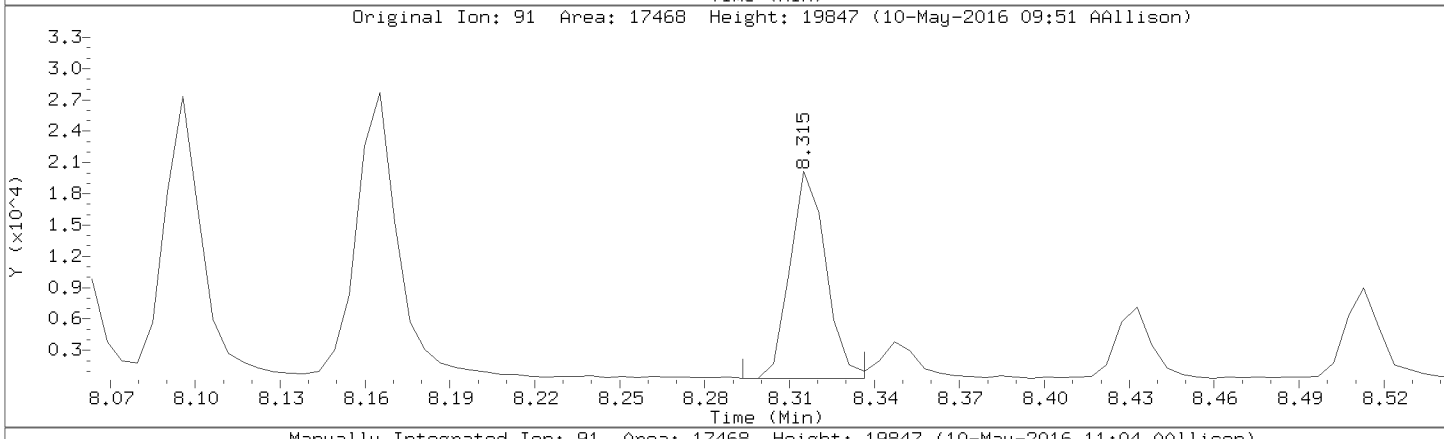


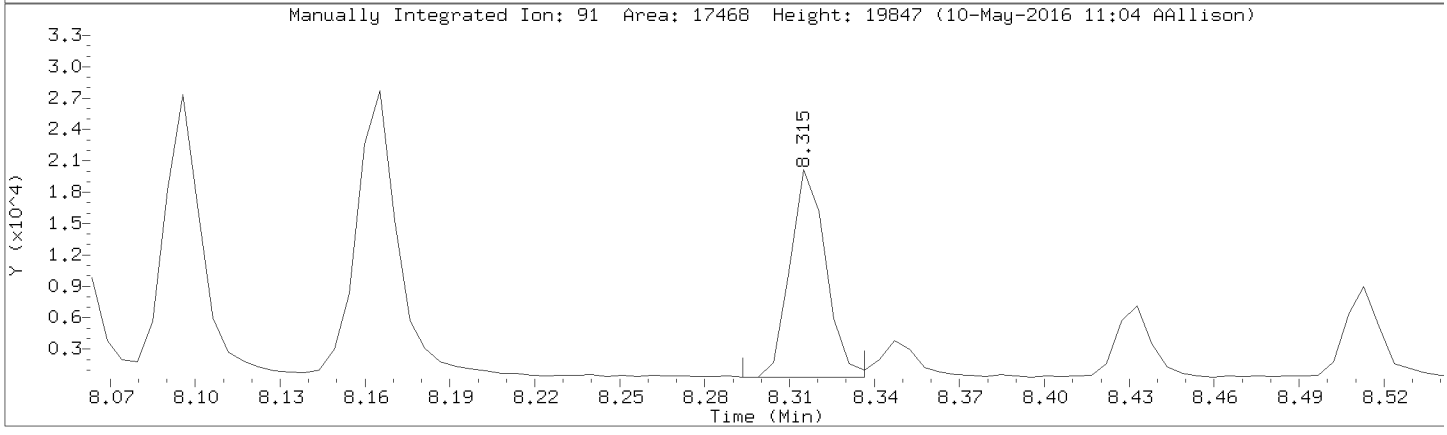
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

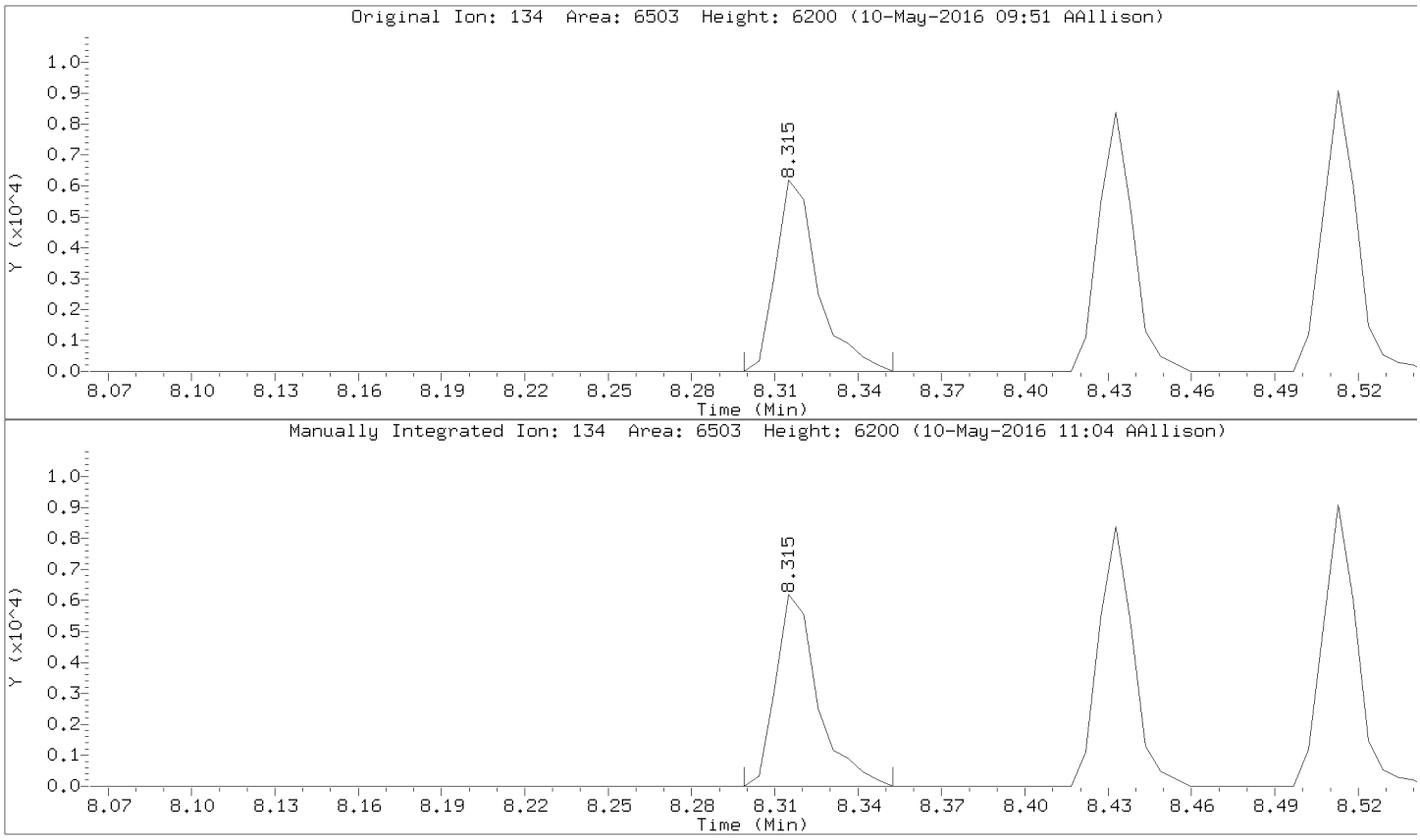






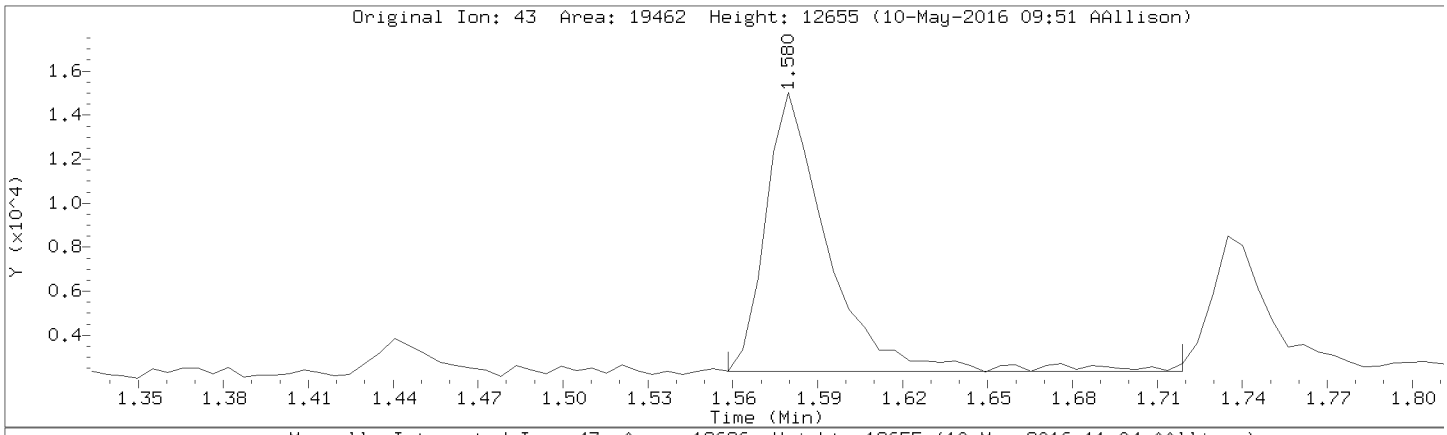


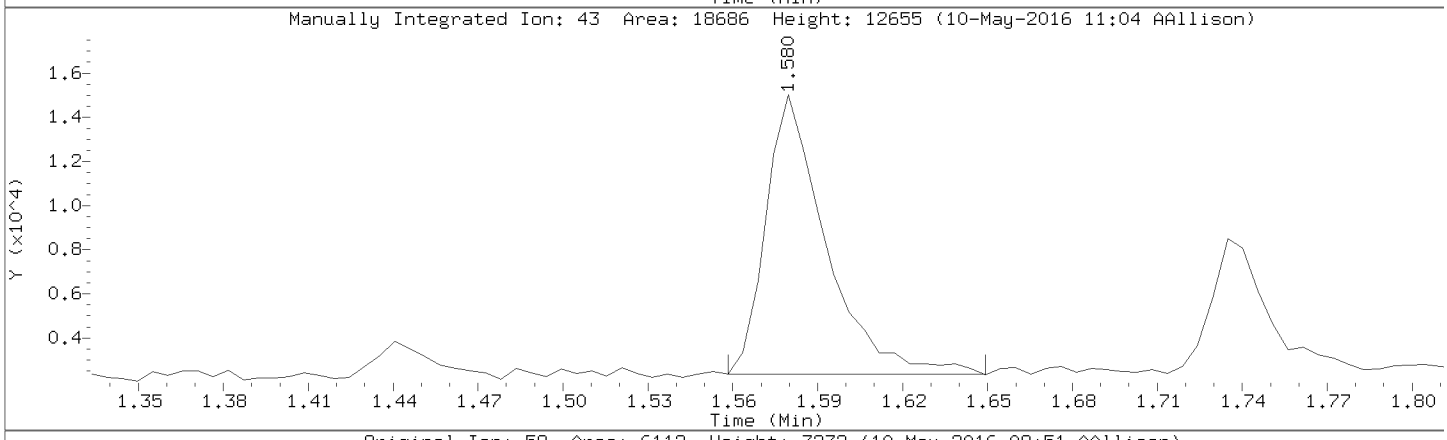
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

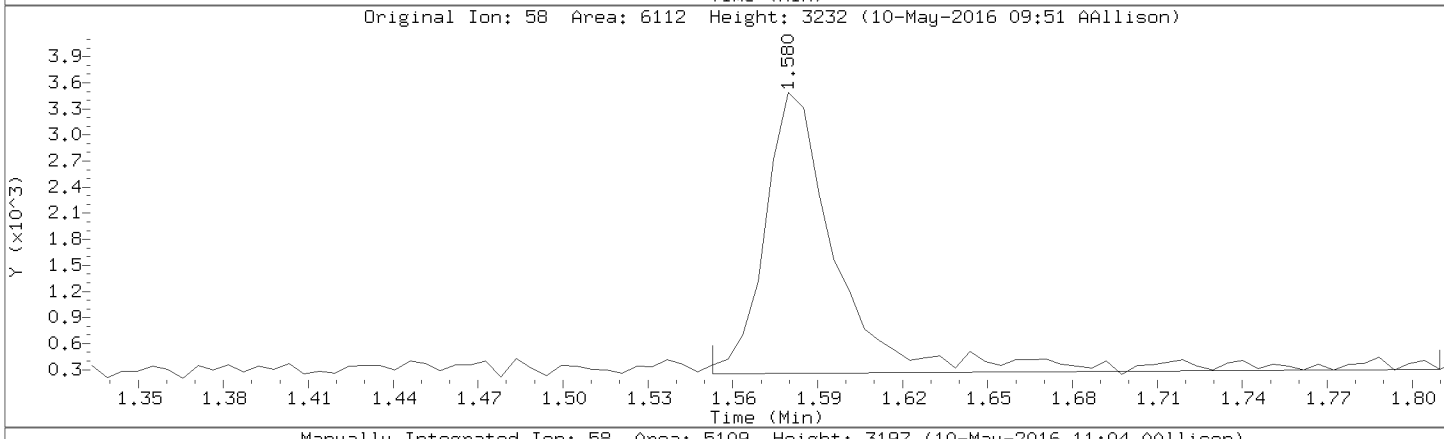


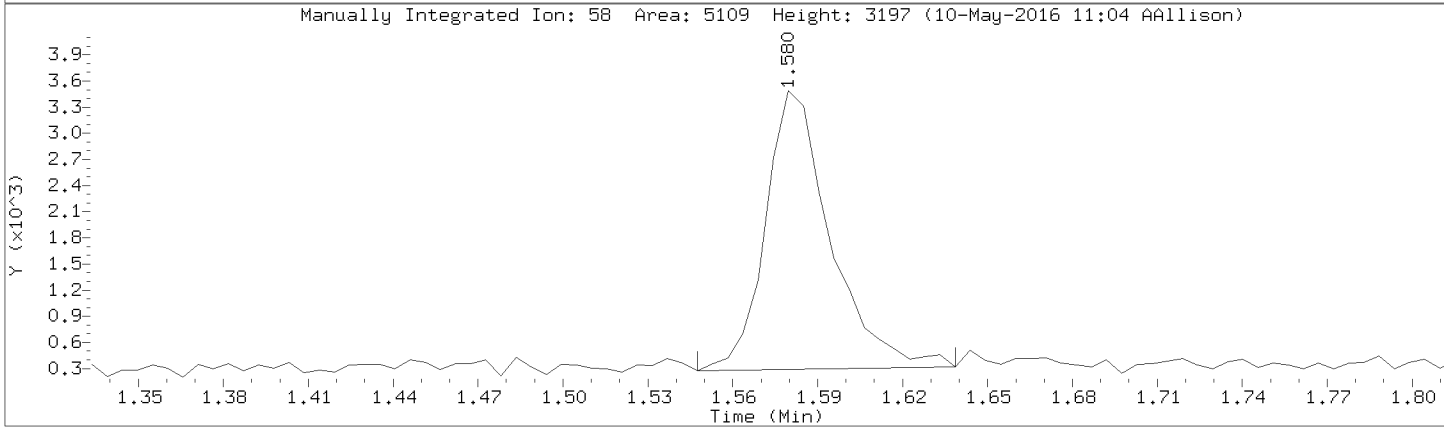
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Acetone Review Code: GT
CAS Number: 67-64-1



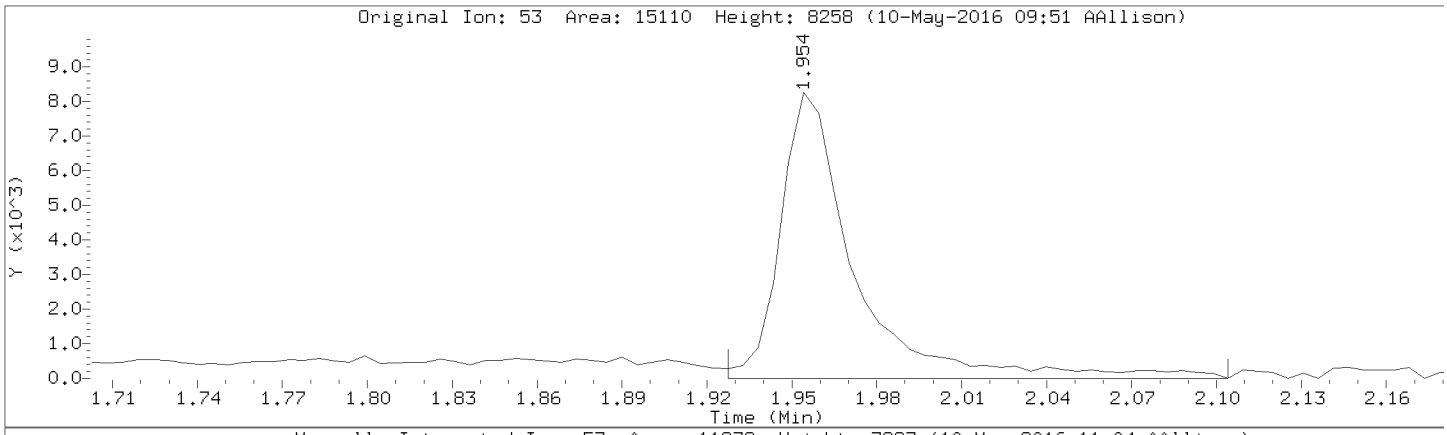


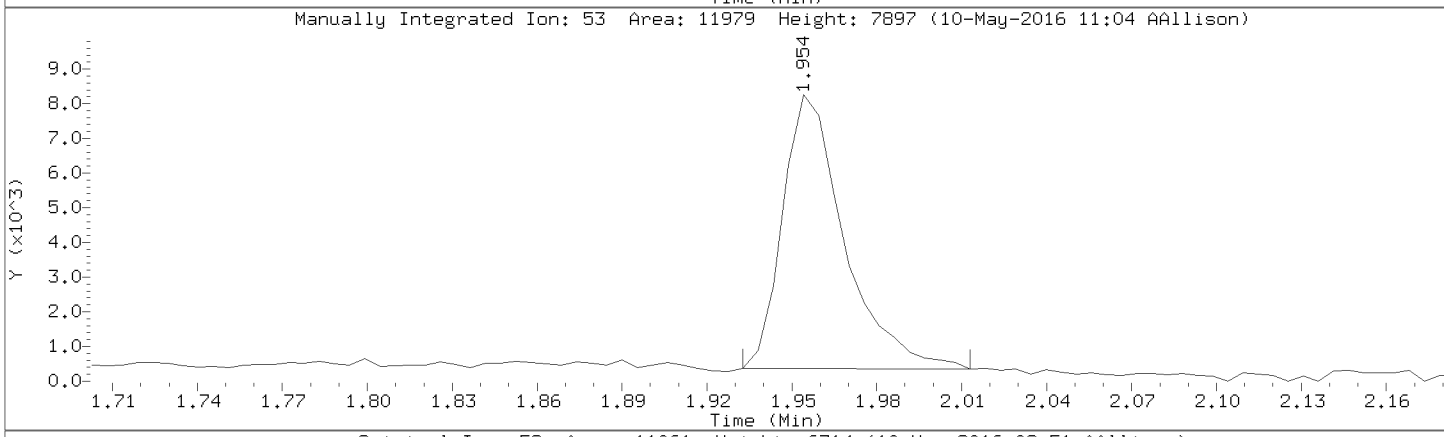


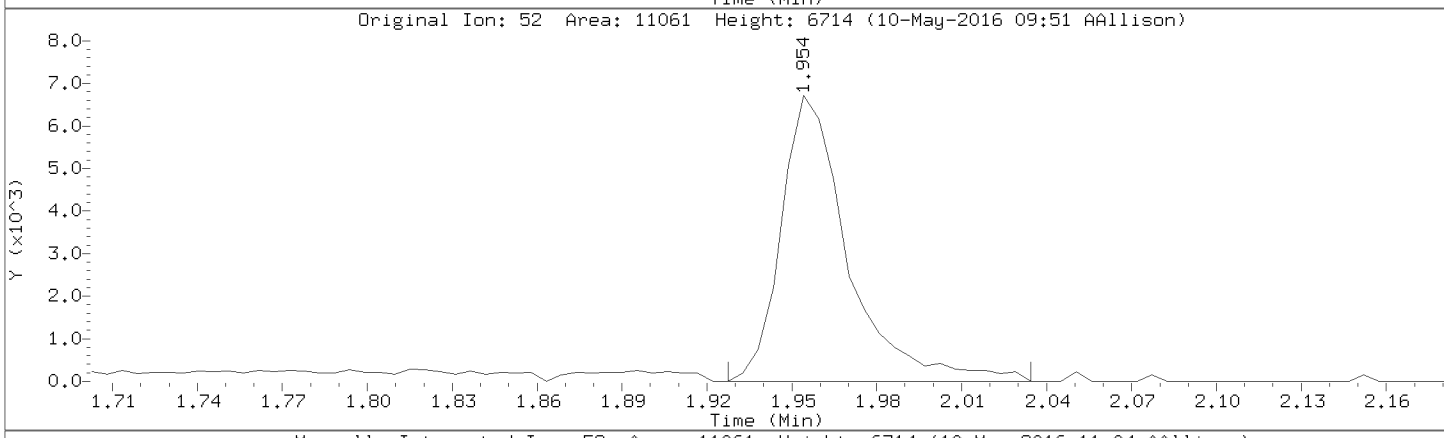


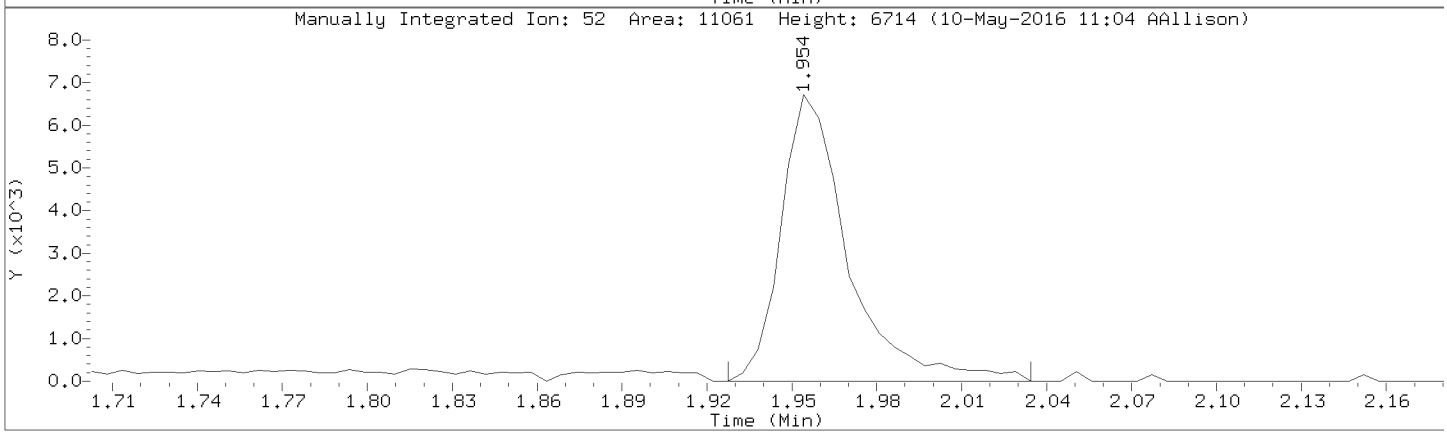
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Acrylonitrile Review Code: GT
CAS Number: 107-13-1



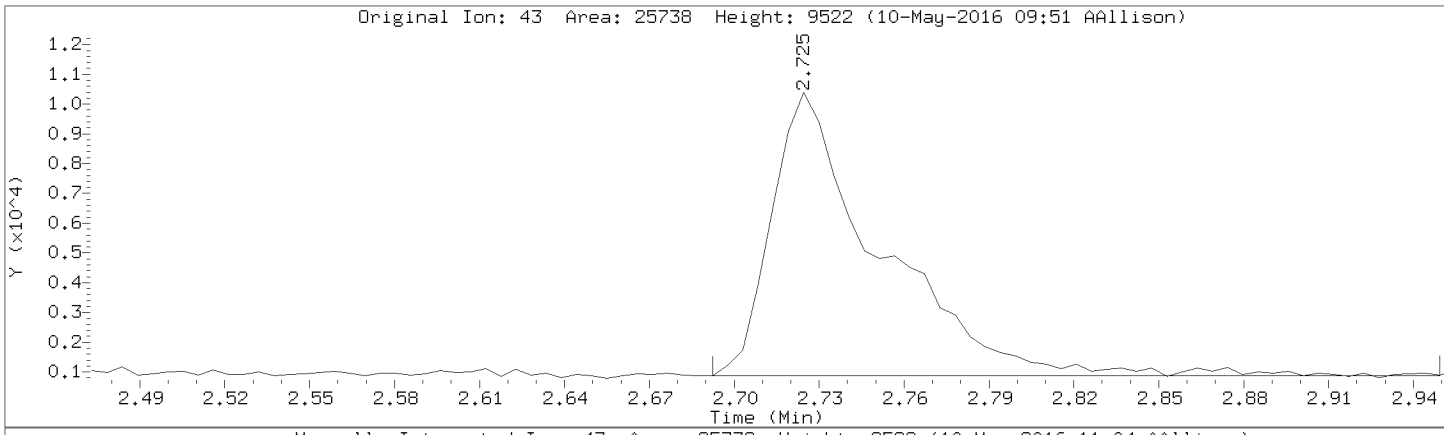


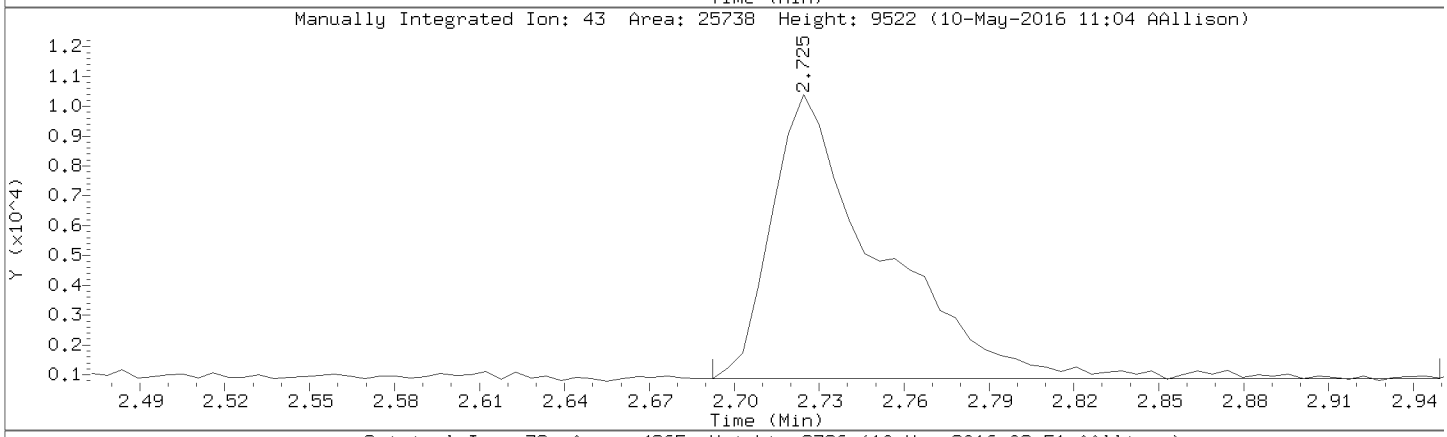


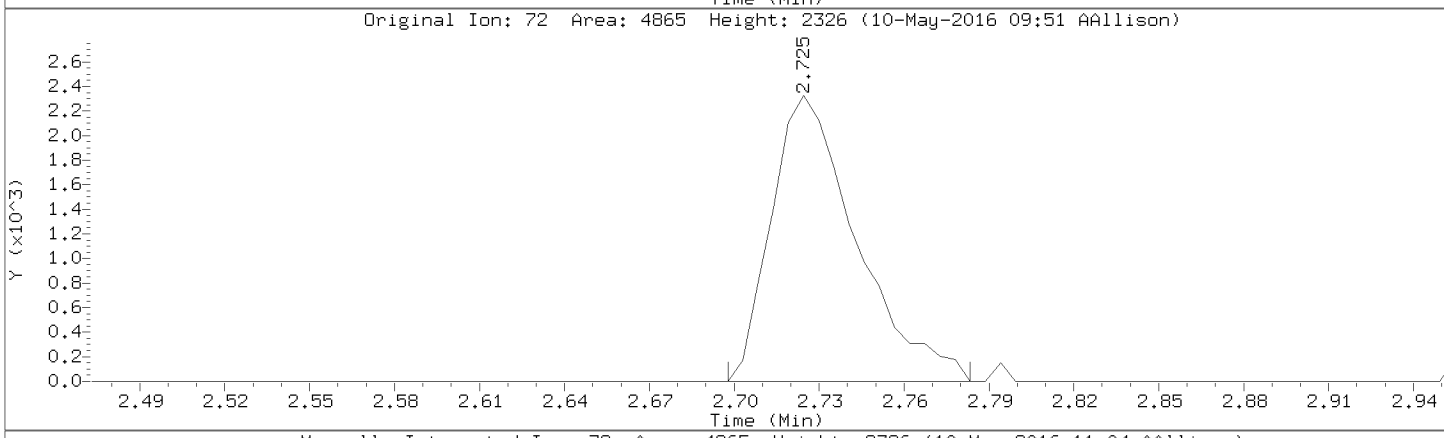


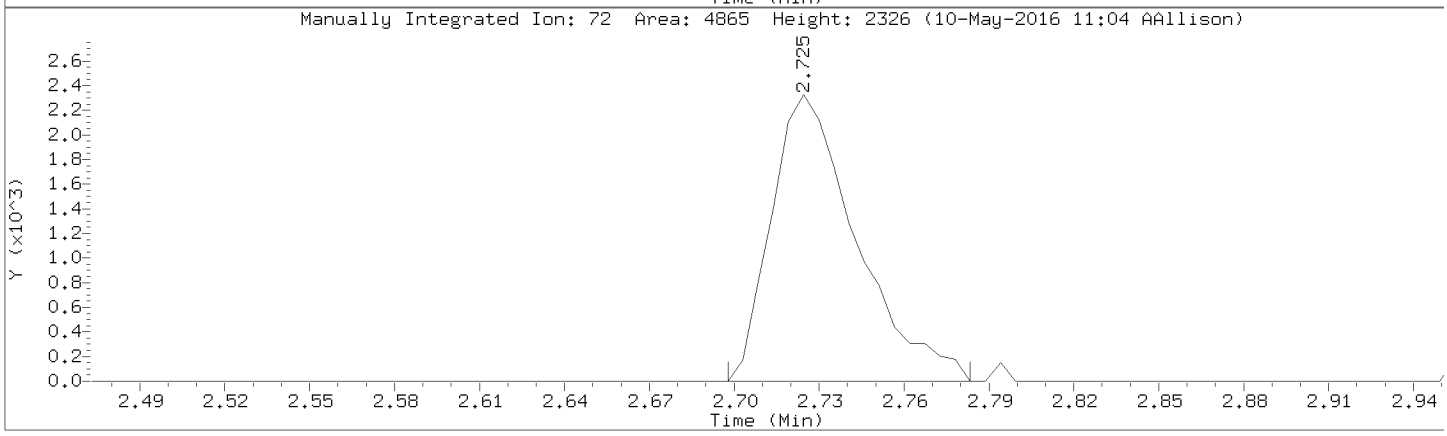
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 2-Butanone Review Code: GT
CAS Number: 78-93-3

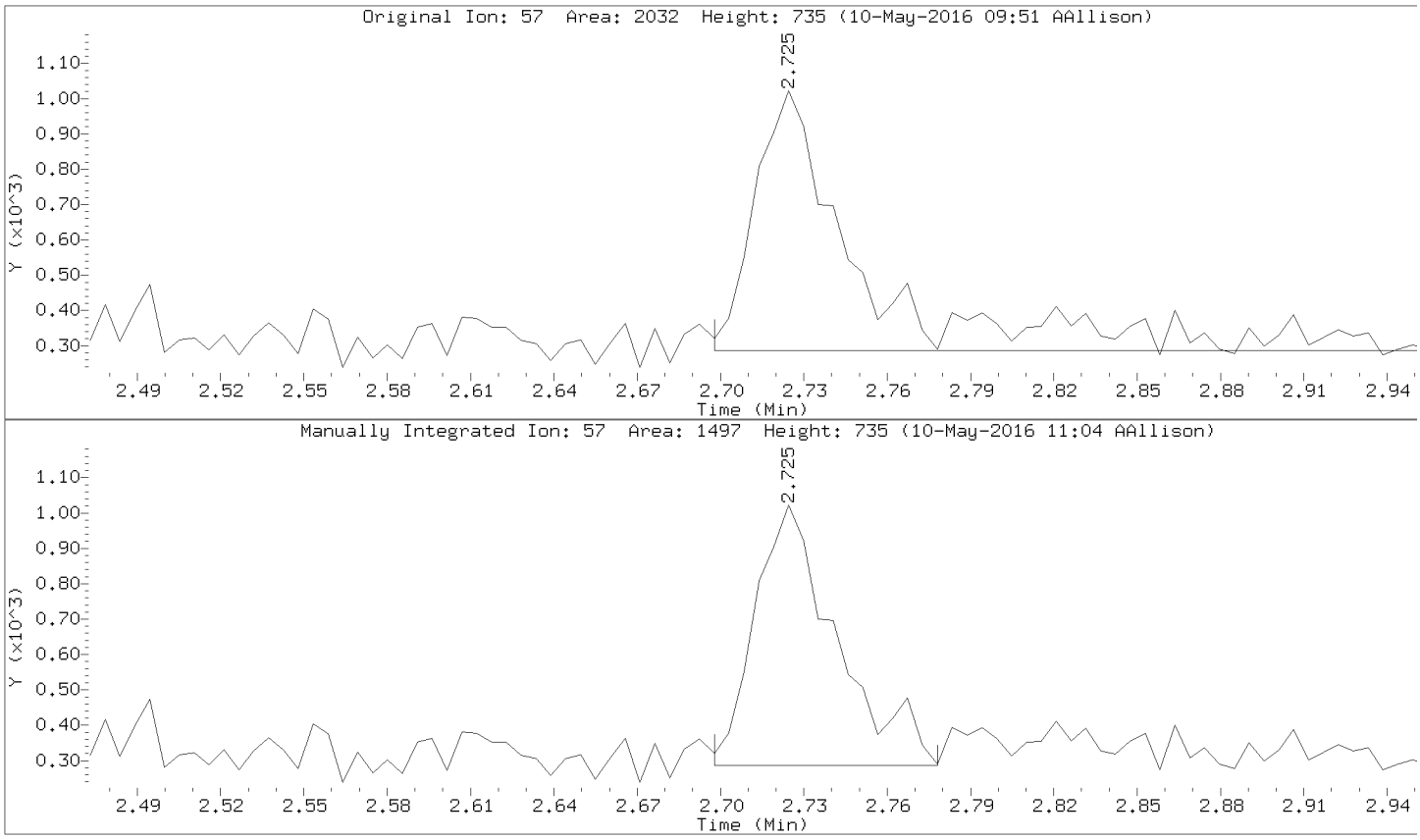






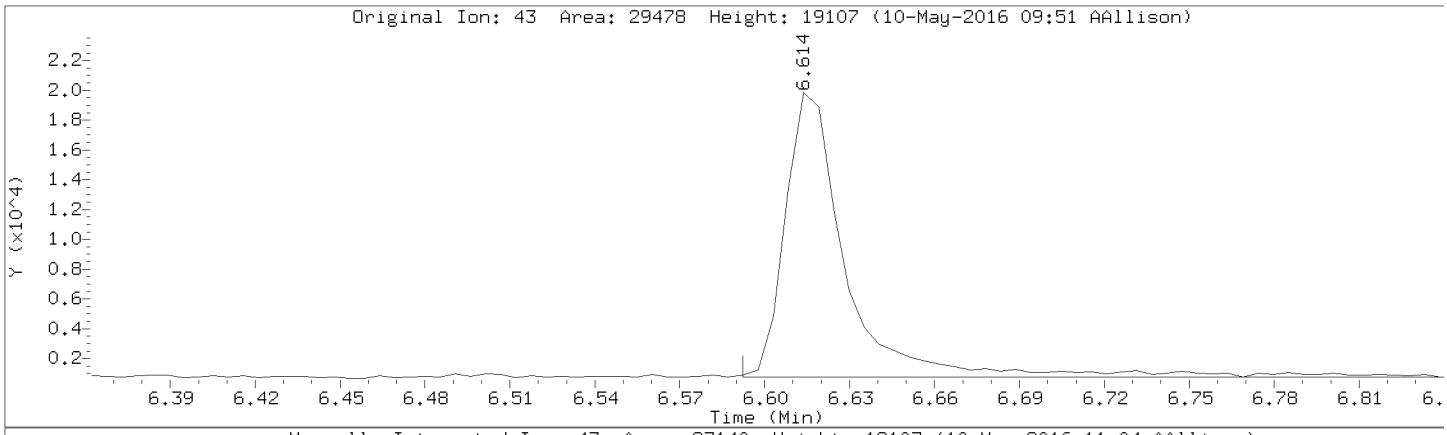


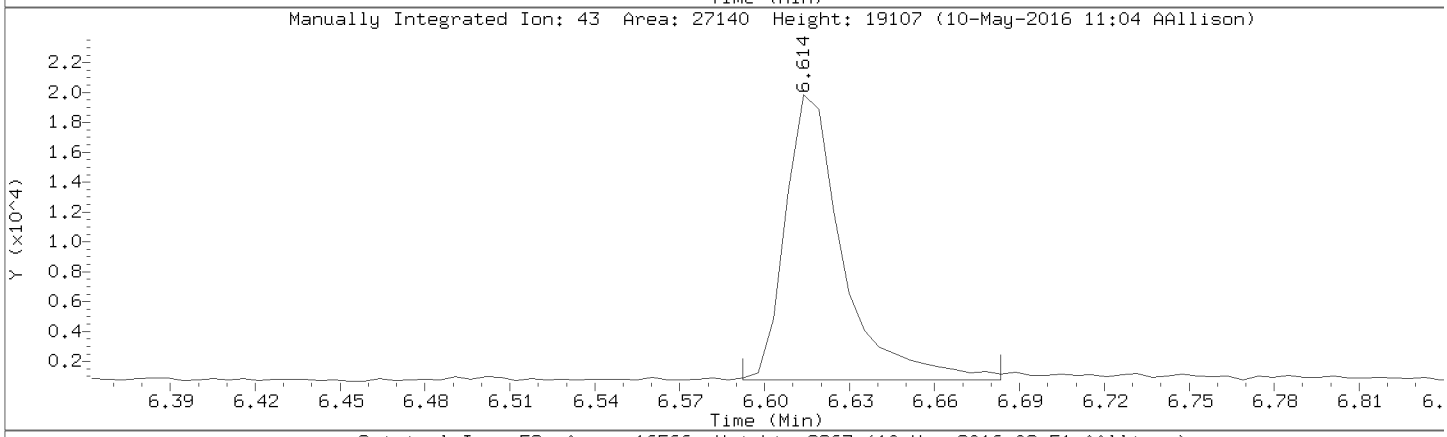
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

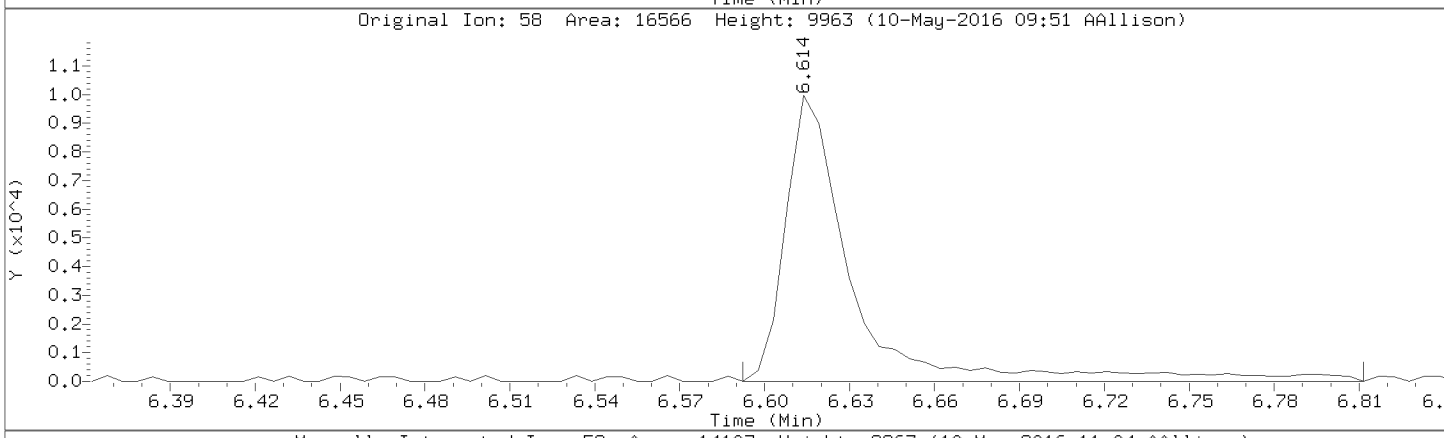


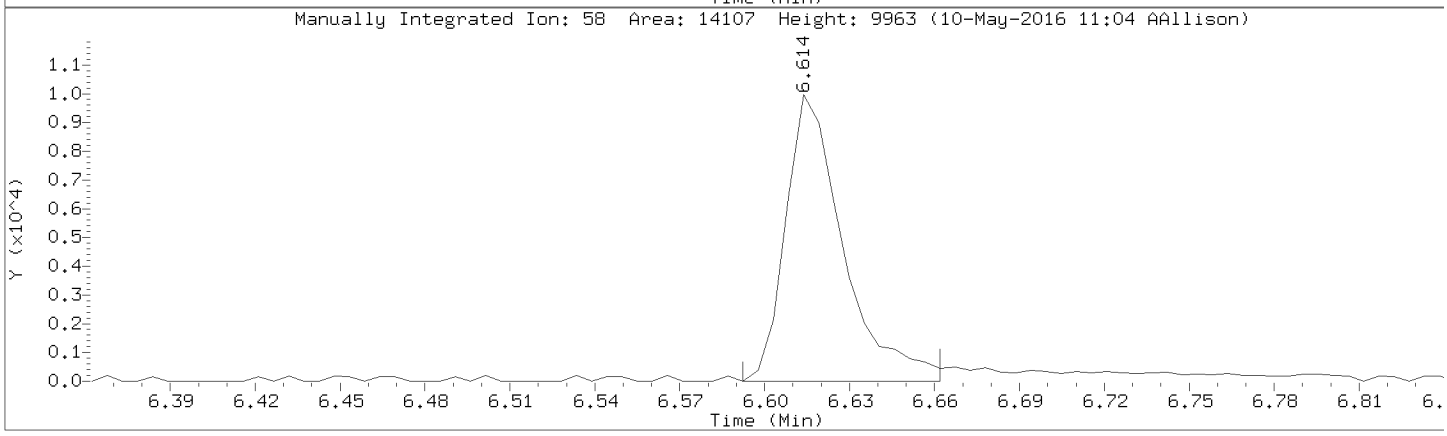
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 2-Hexanone Review Code: GT
CAS Number: 591-78-6

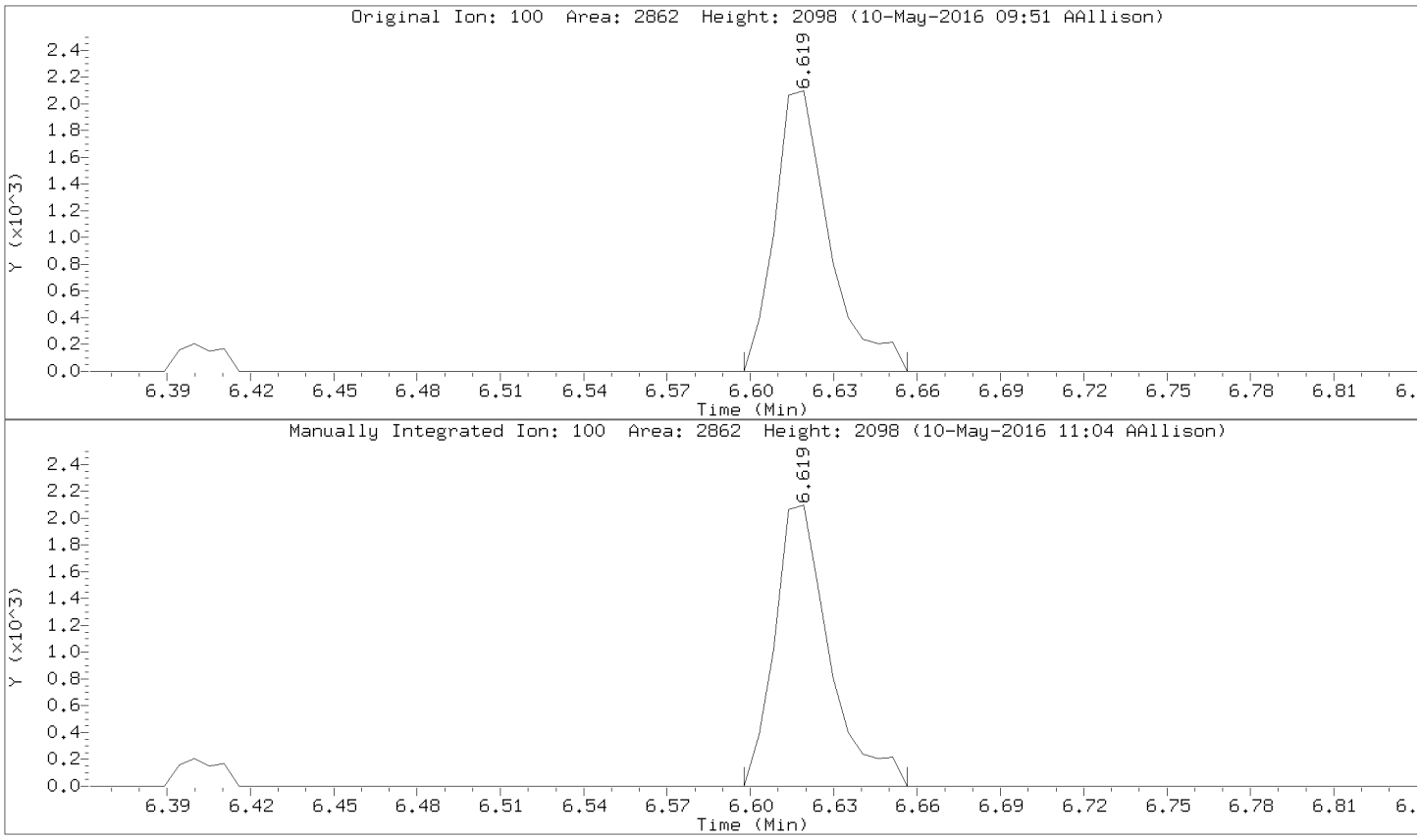






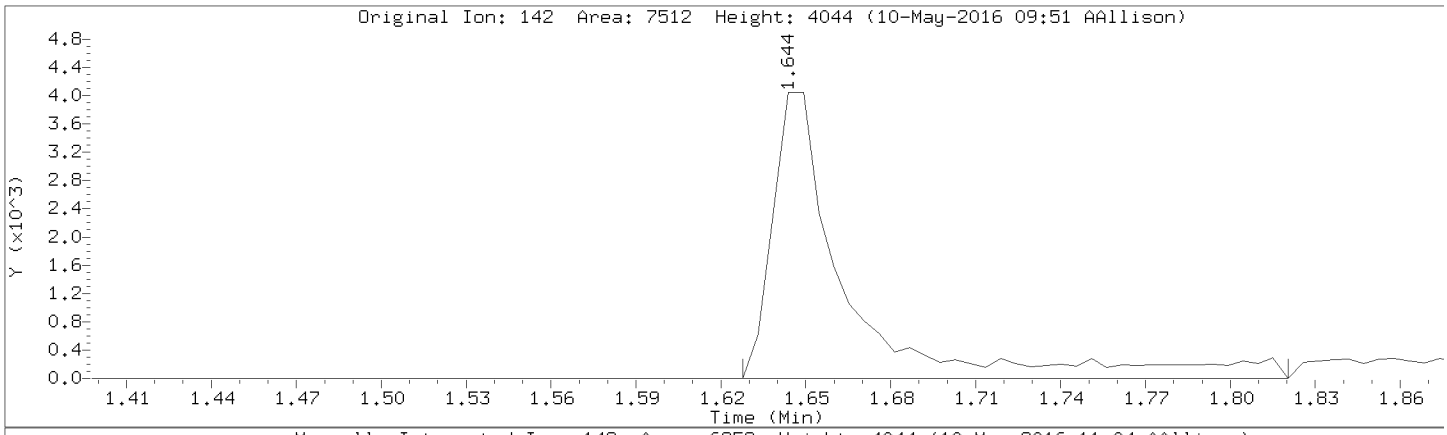


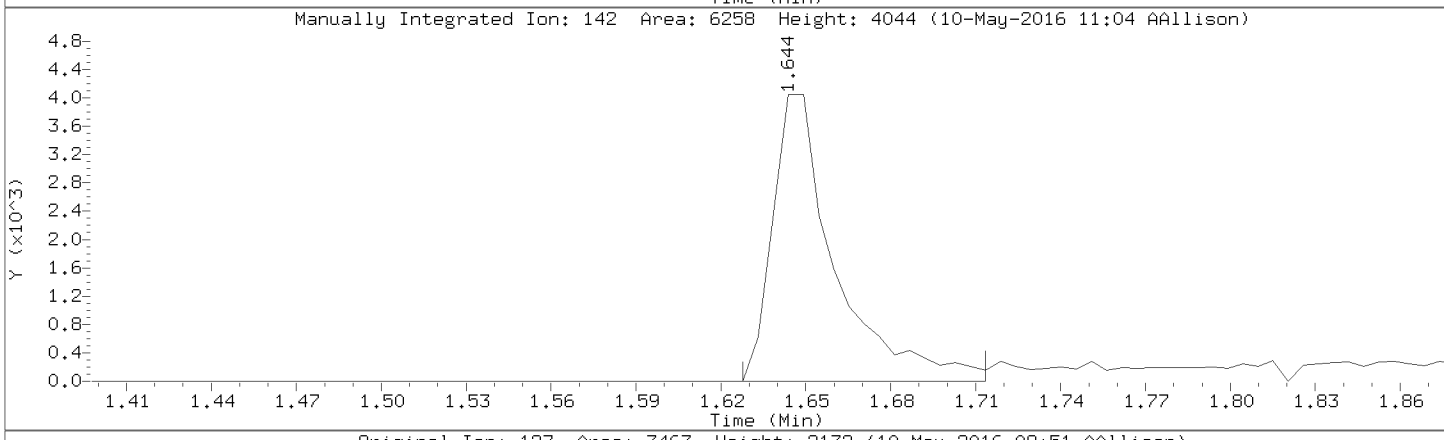
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

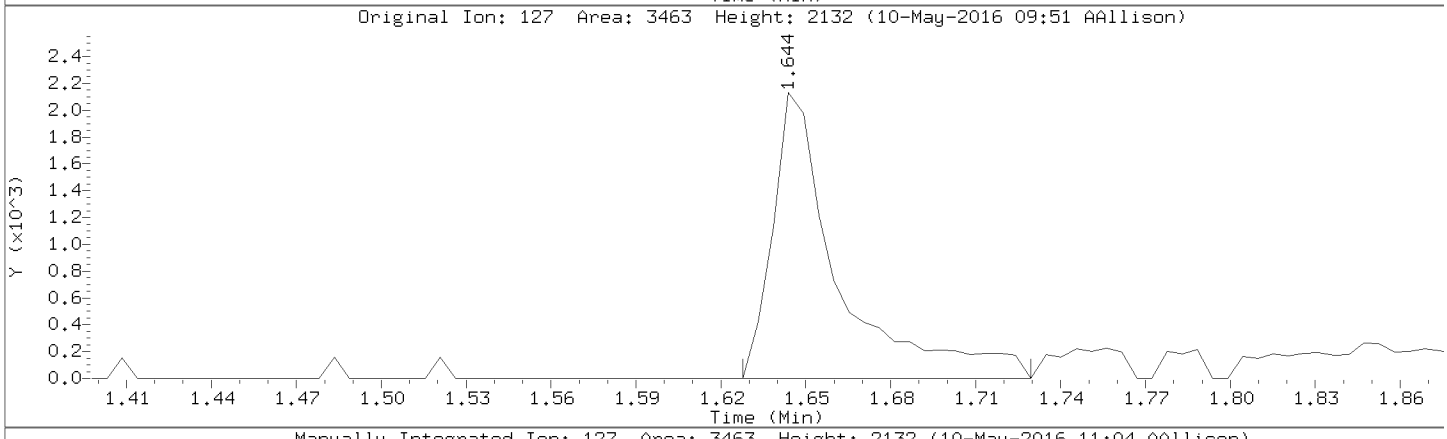


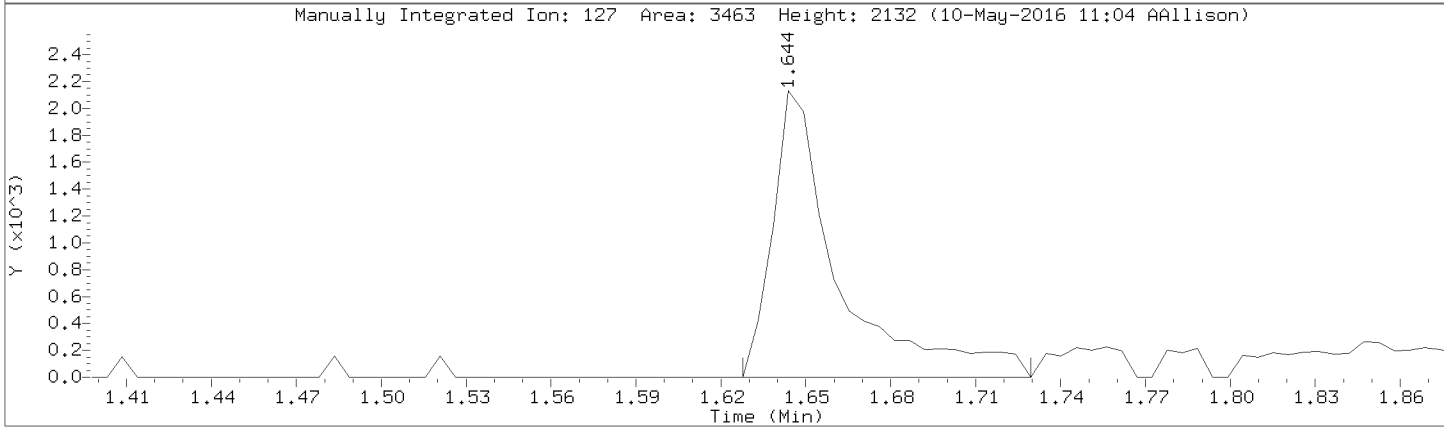
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Iodomethane Review Code: GT
CAS Number:



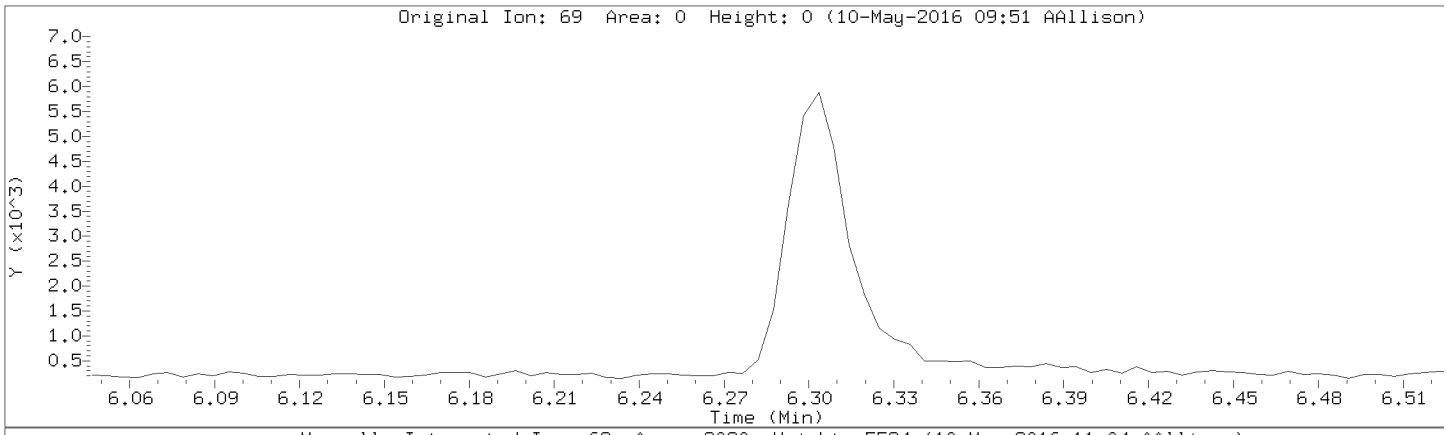


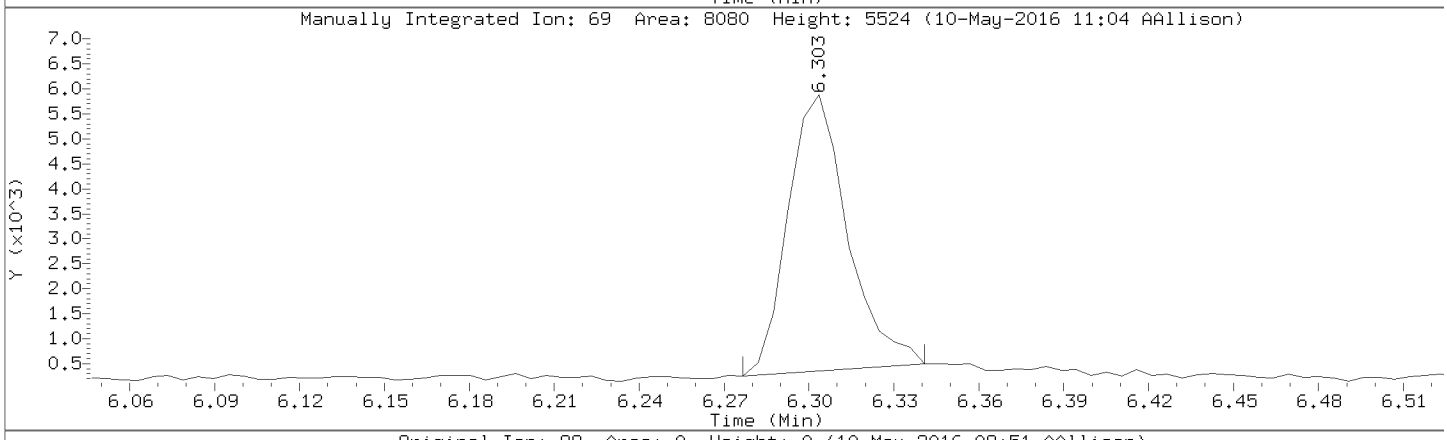


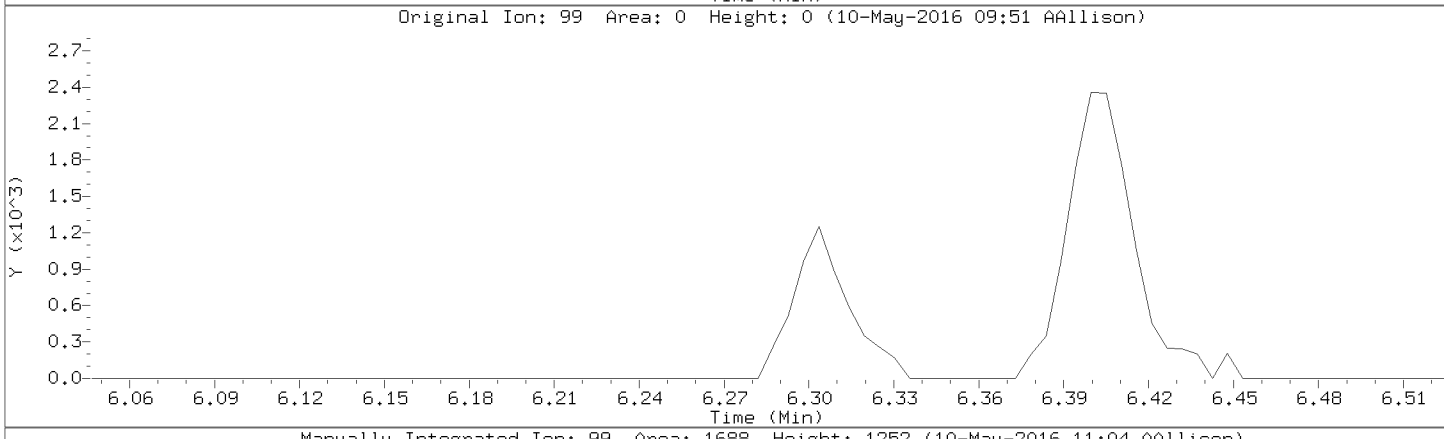


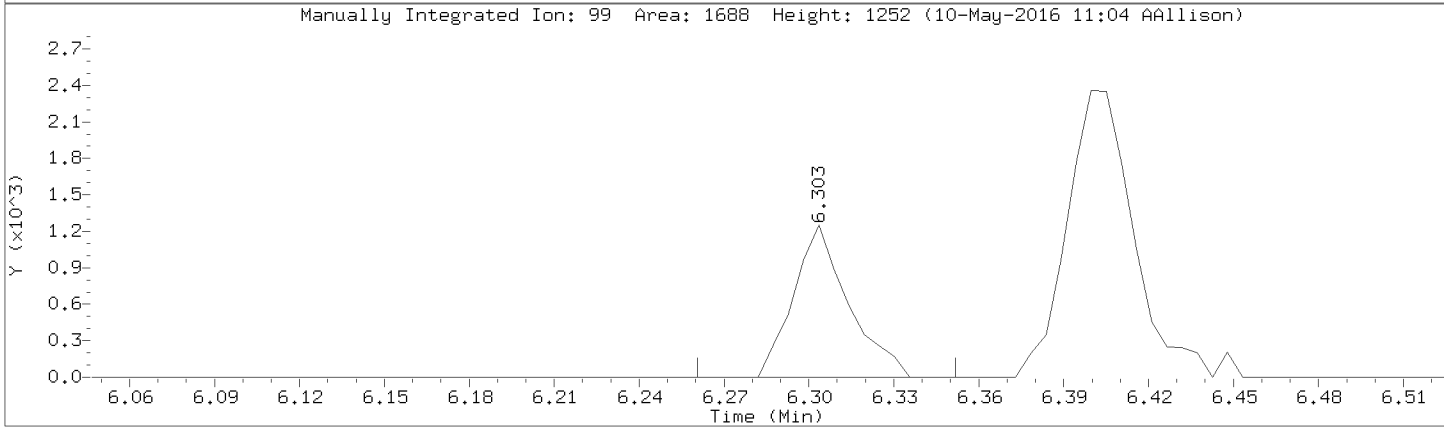
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Ethyl Methacrylate Review Code: NI
CAS Number:

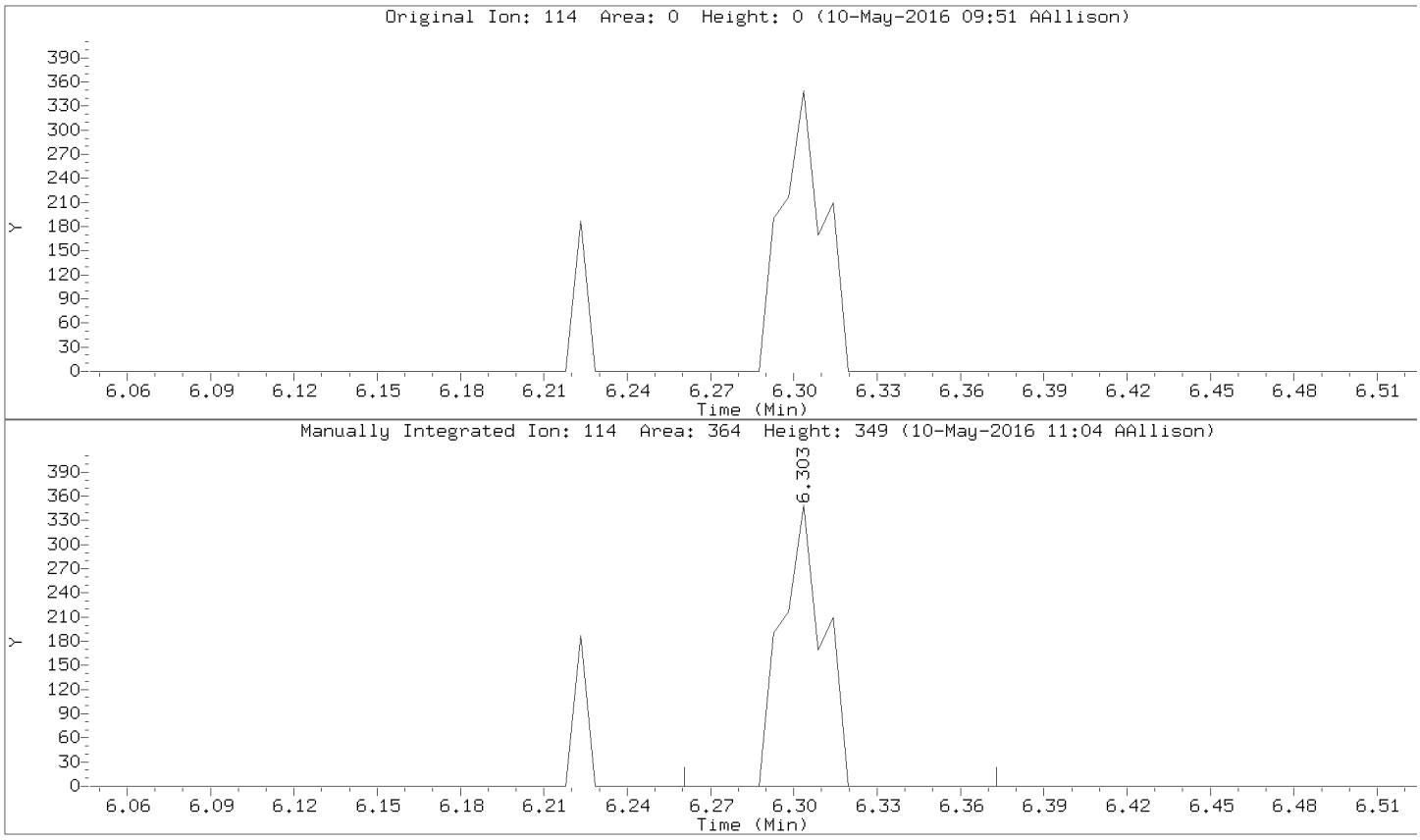






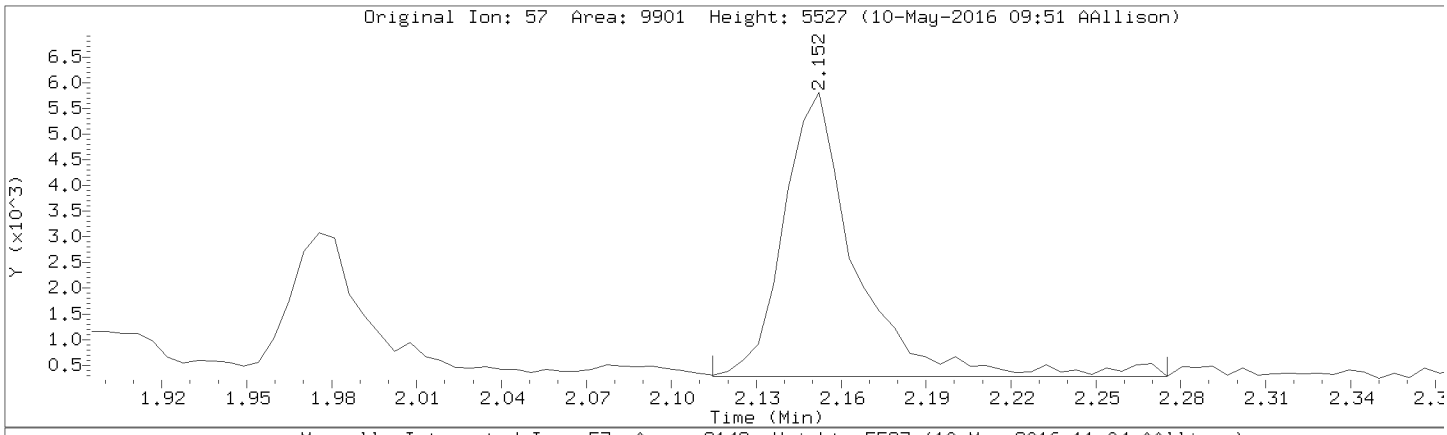


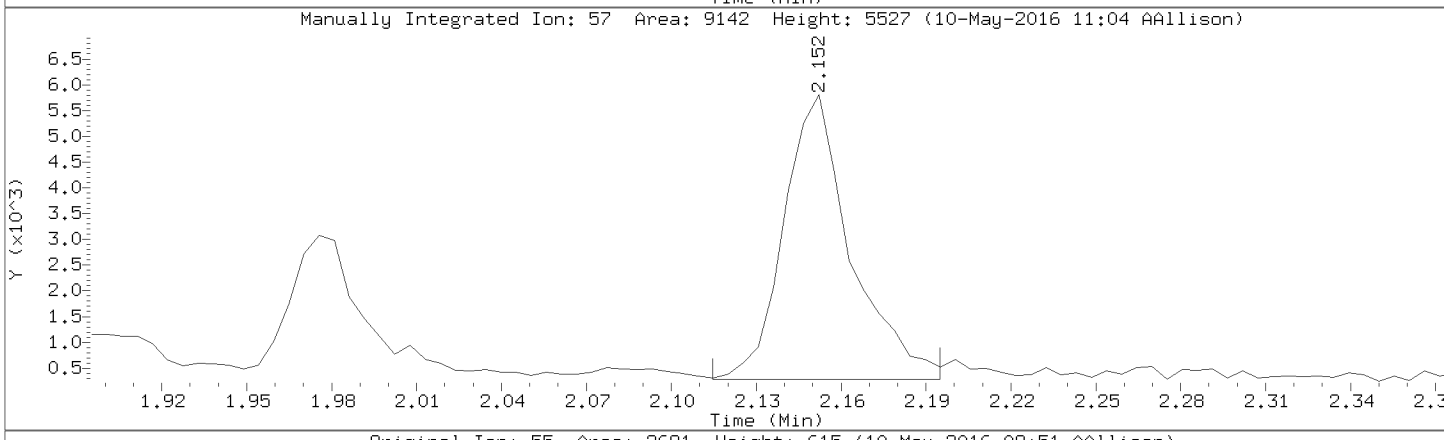
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

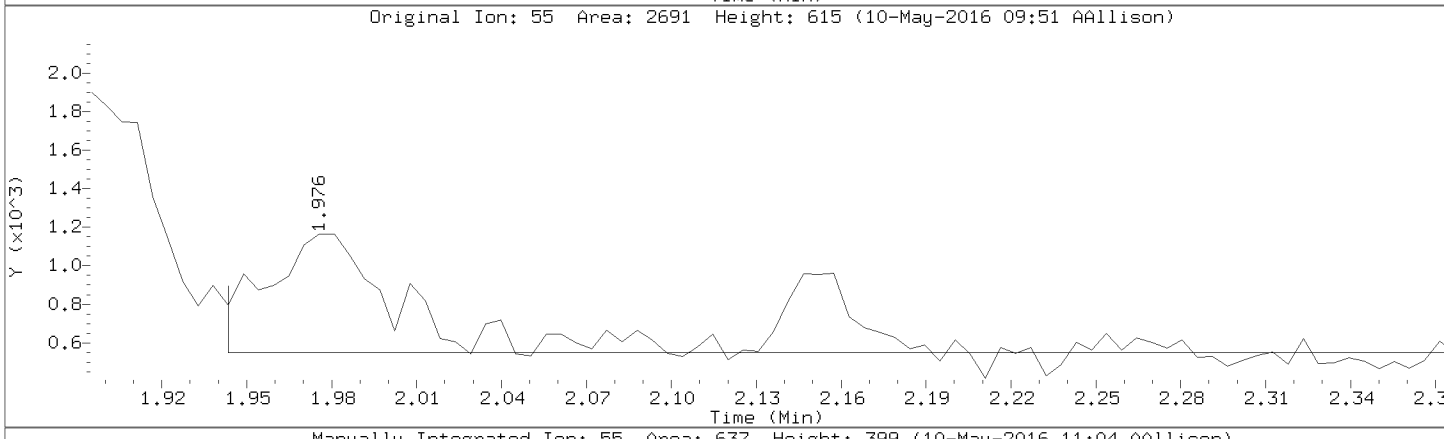


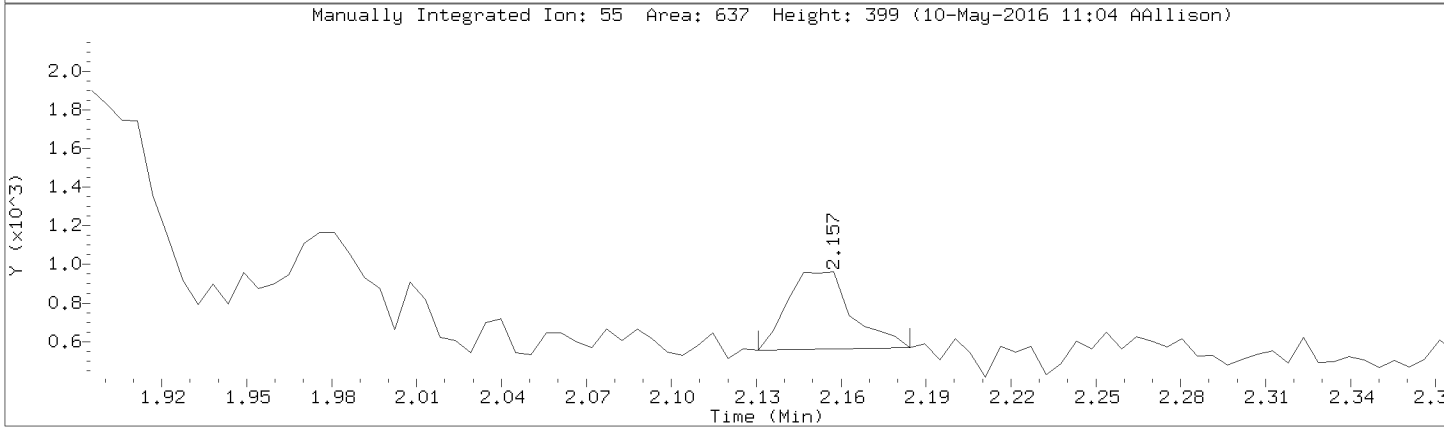
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: n-Hexane Review Code: GT
CAS Number:



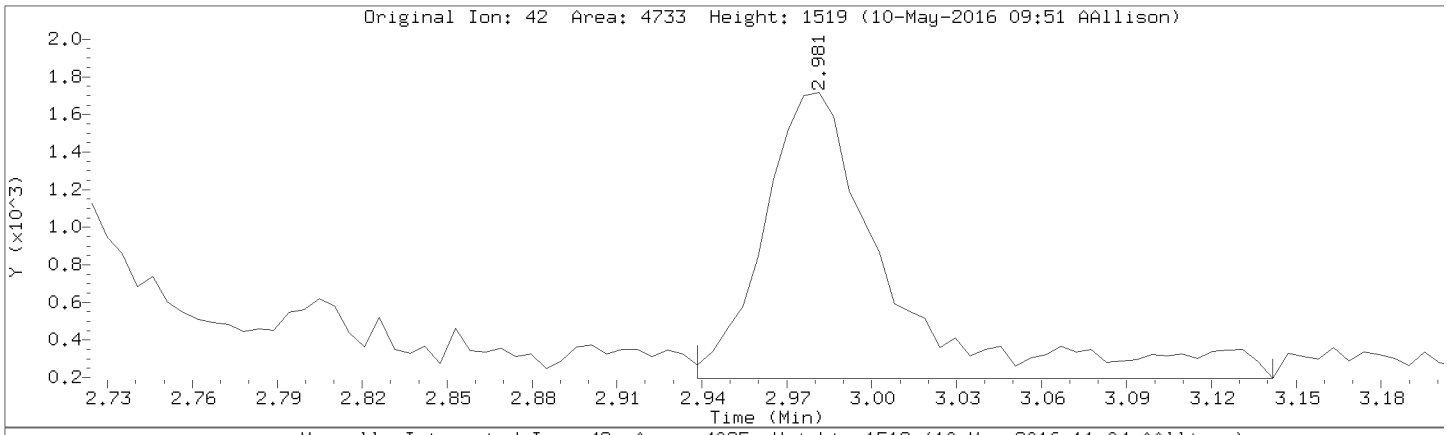


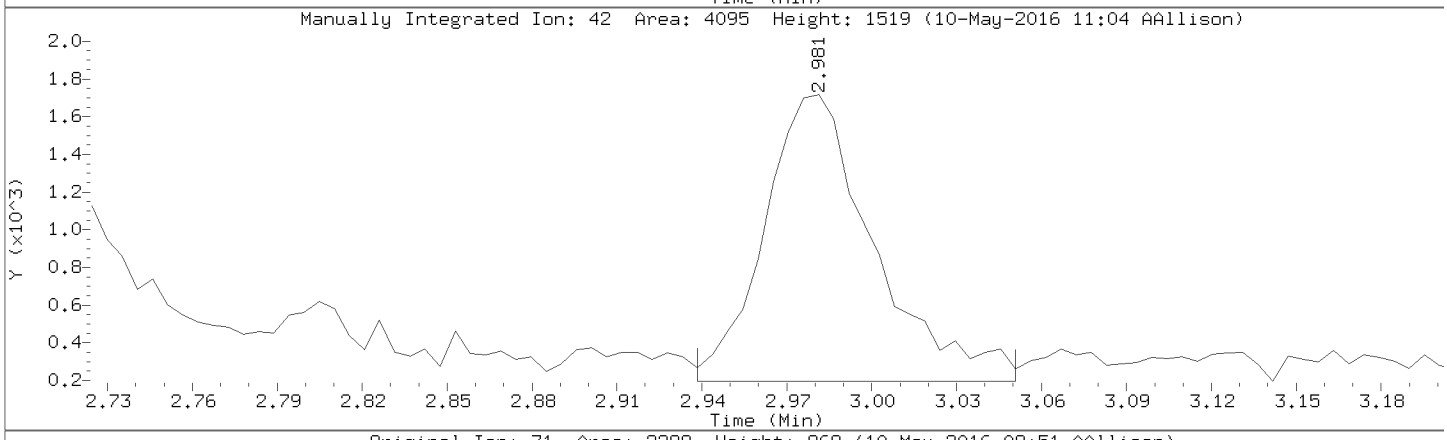


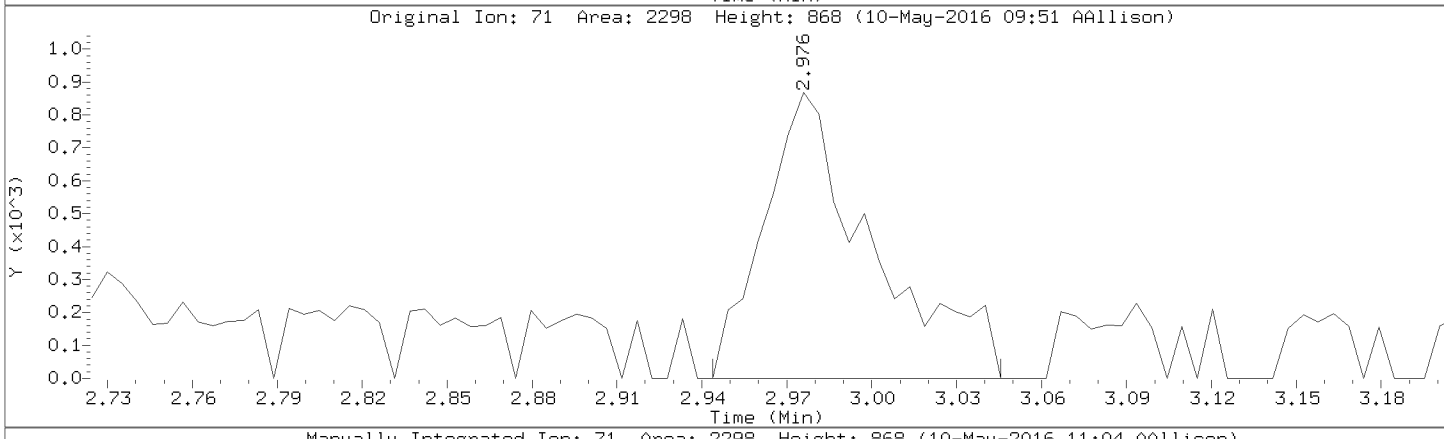


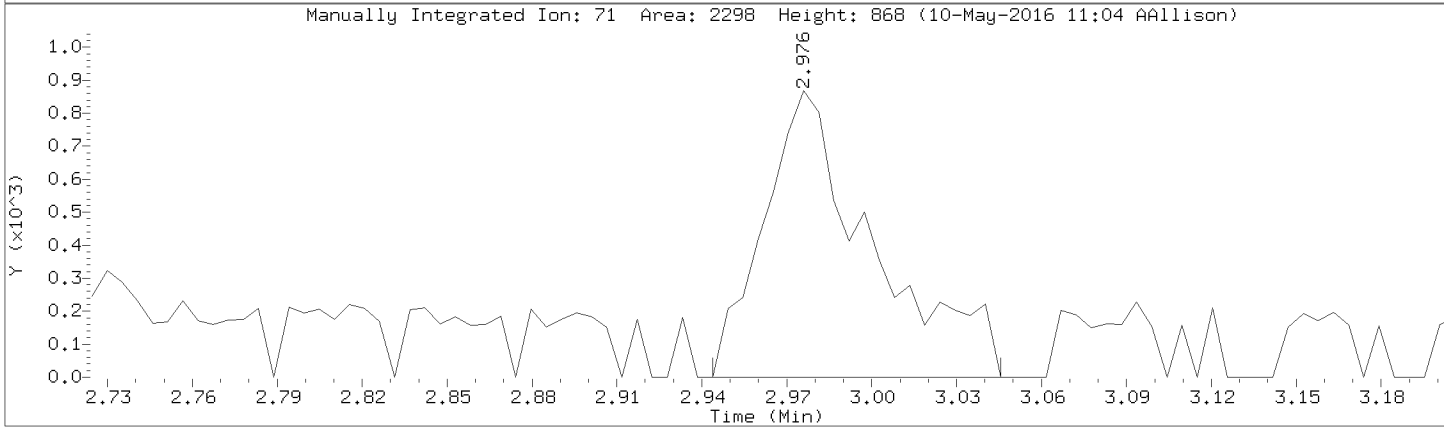
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Tetrahydrofuran Review Code: GT
CAS Number:

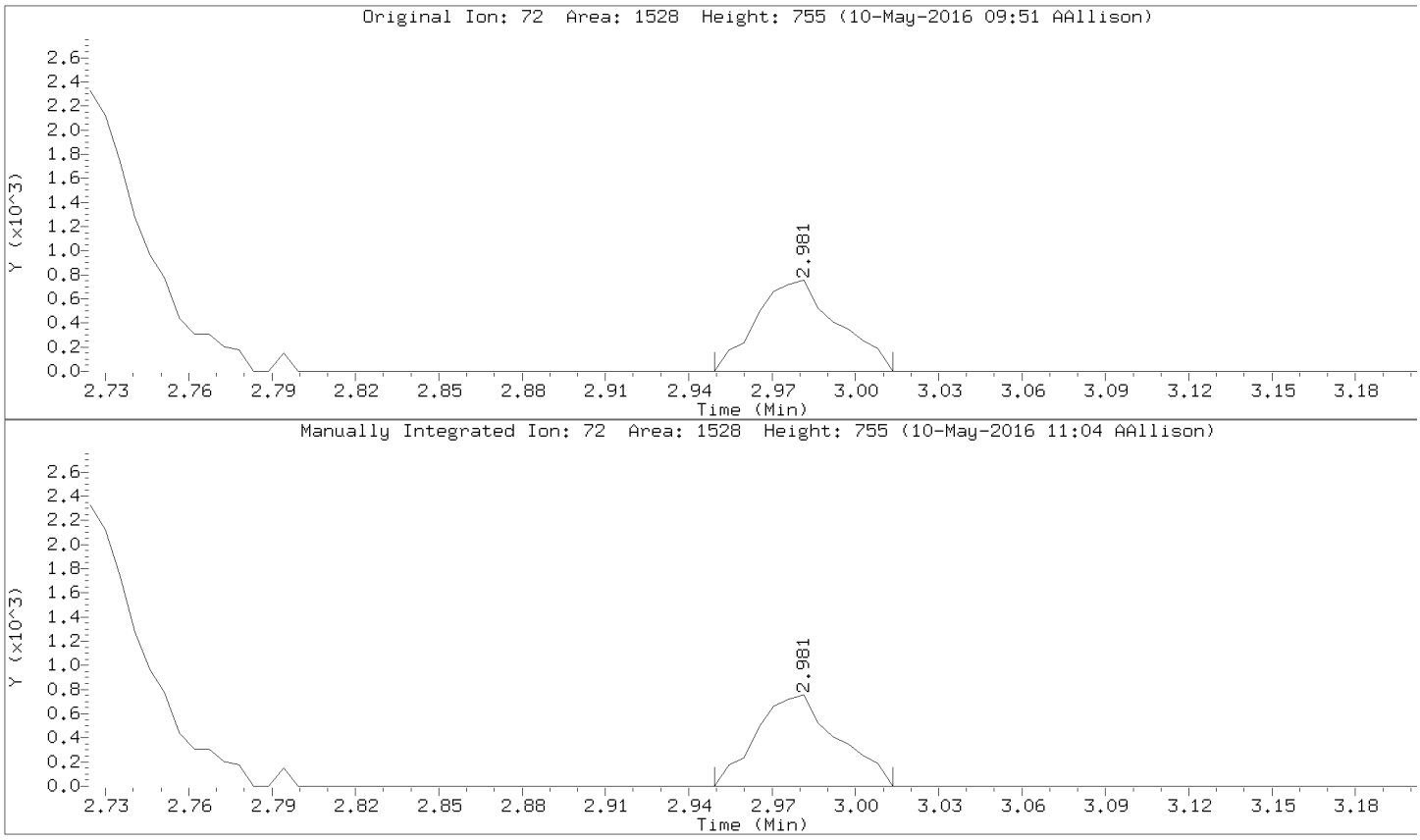






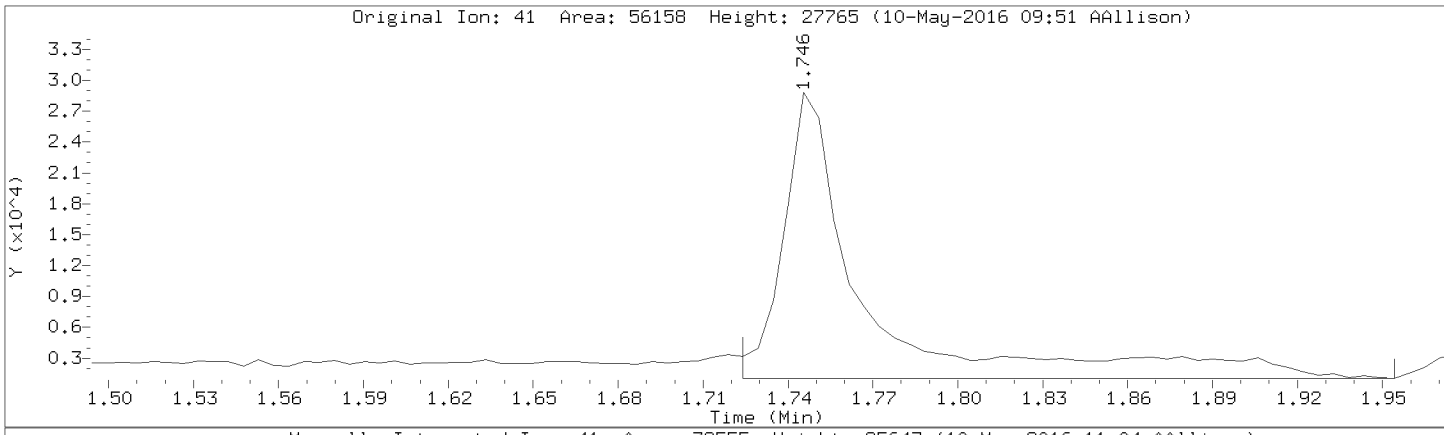


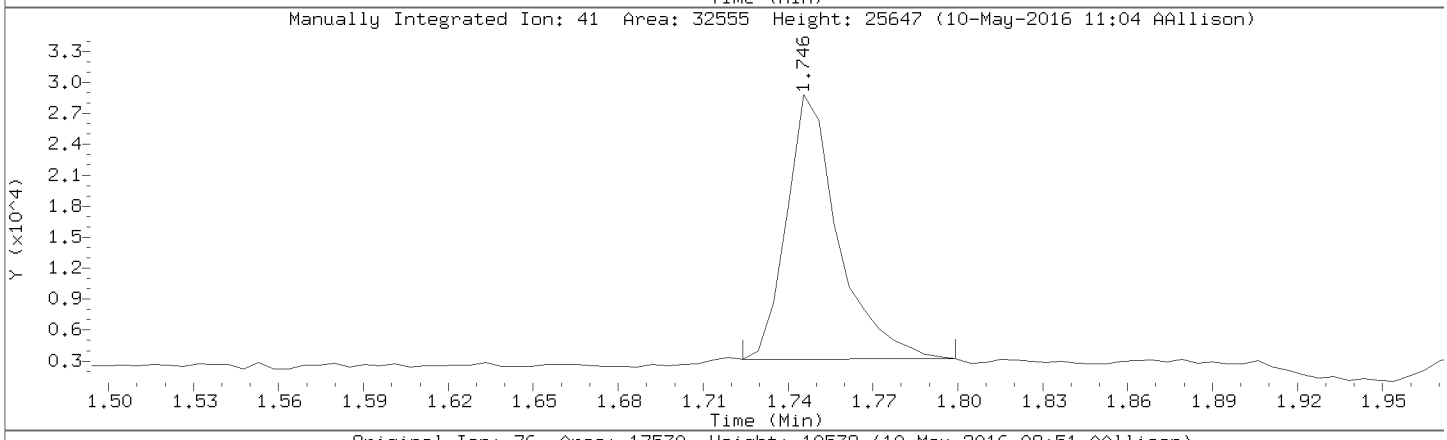
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

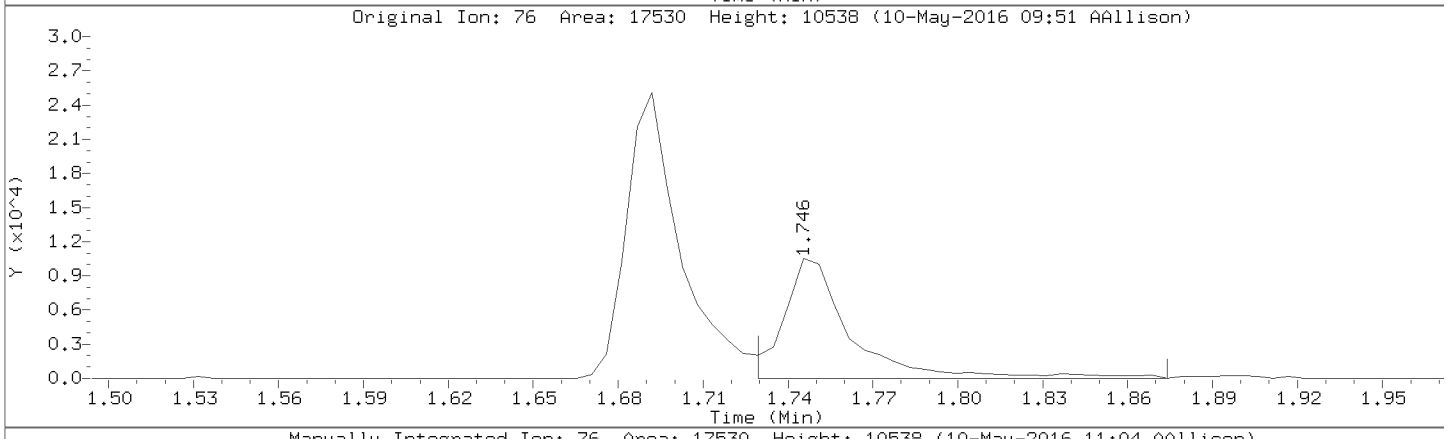


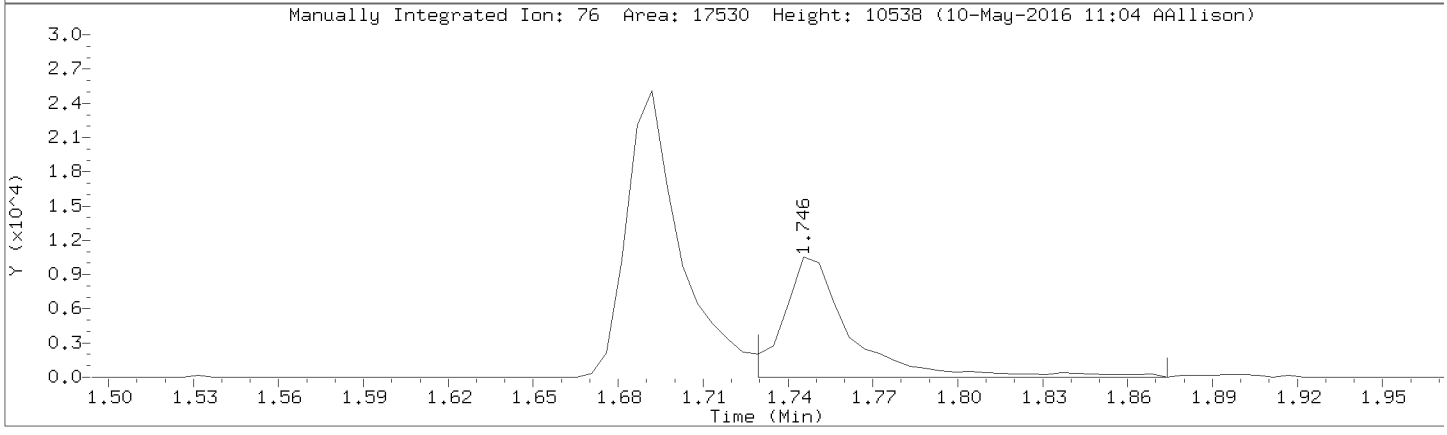
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: allyl chloride Review Code: GT
CAS Number: 107-05-1



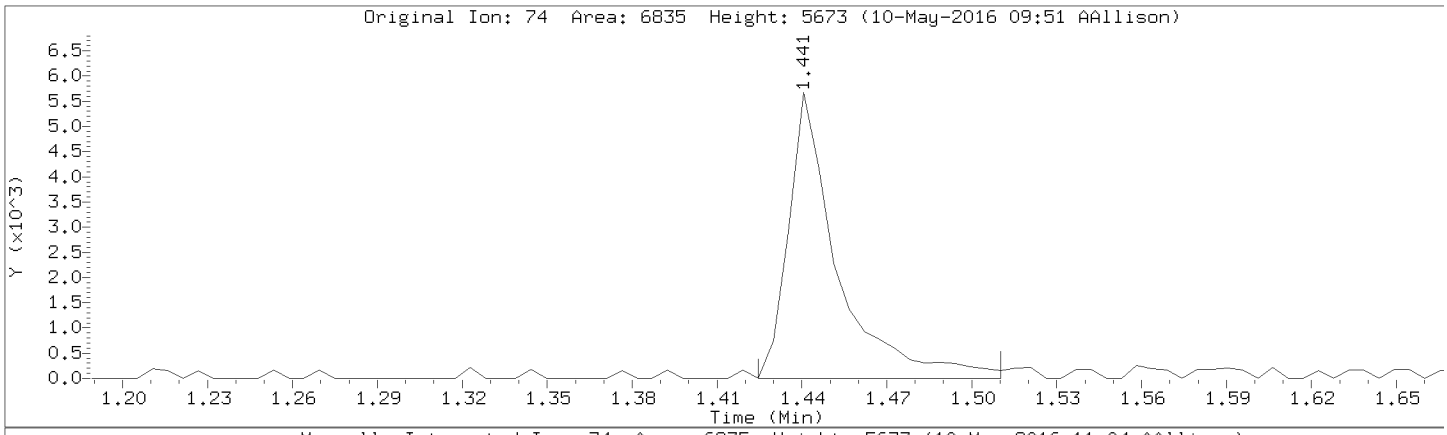


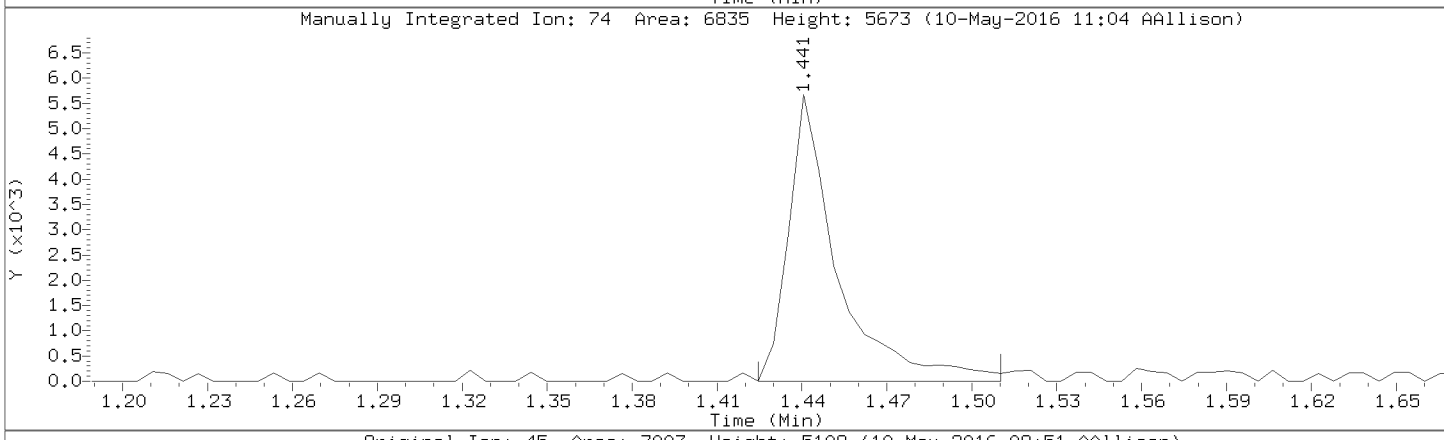


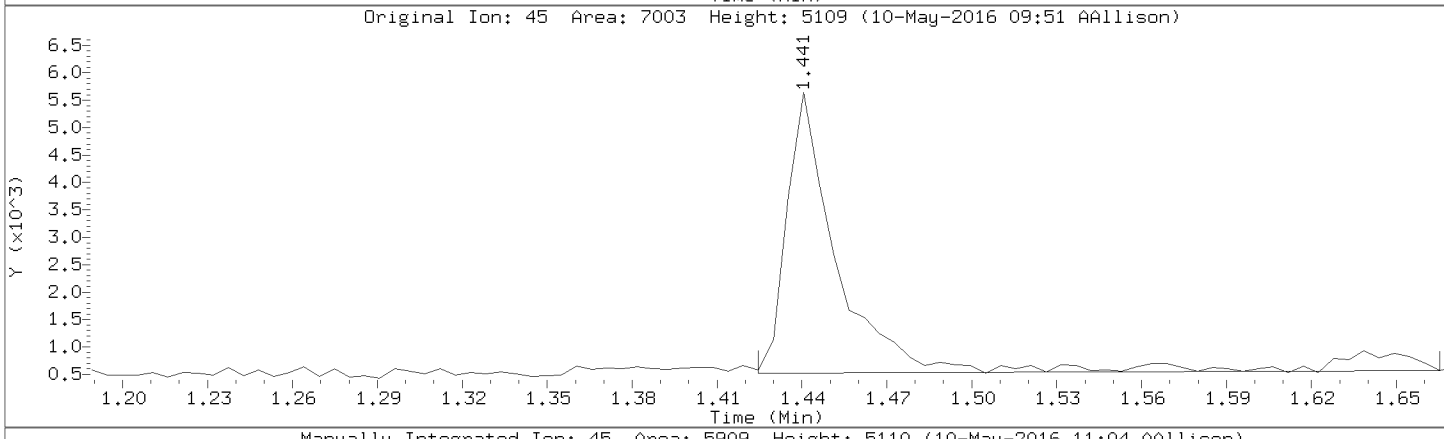


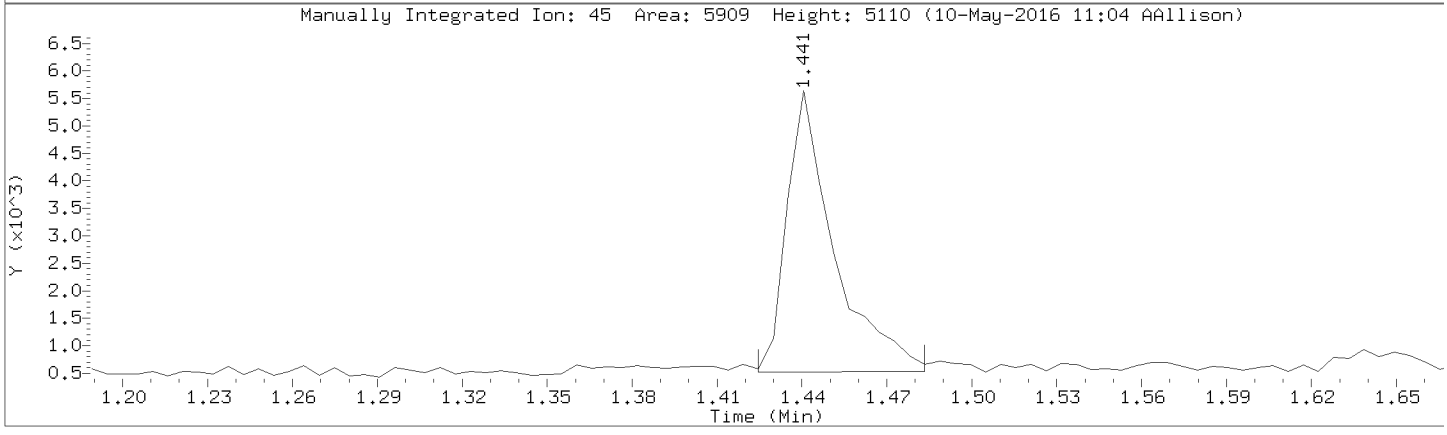
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Diethyl ether Review Code: GT
CAS Number: 60-29-7

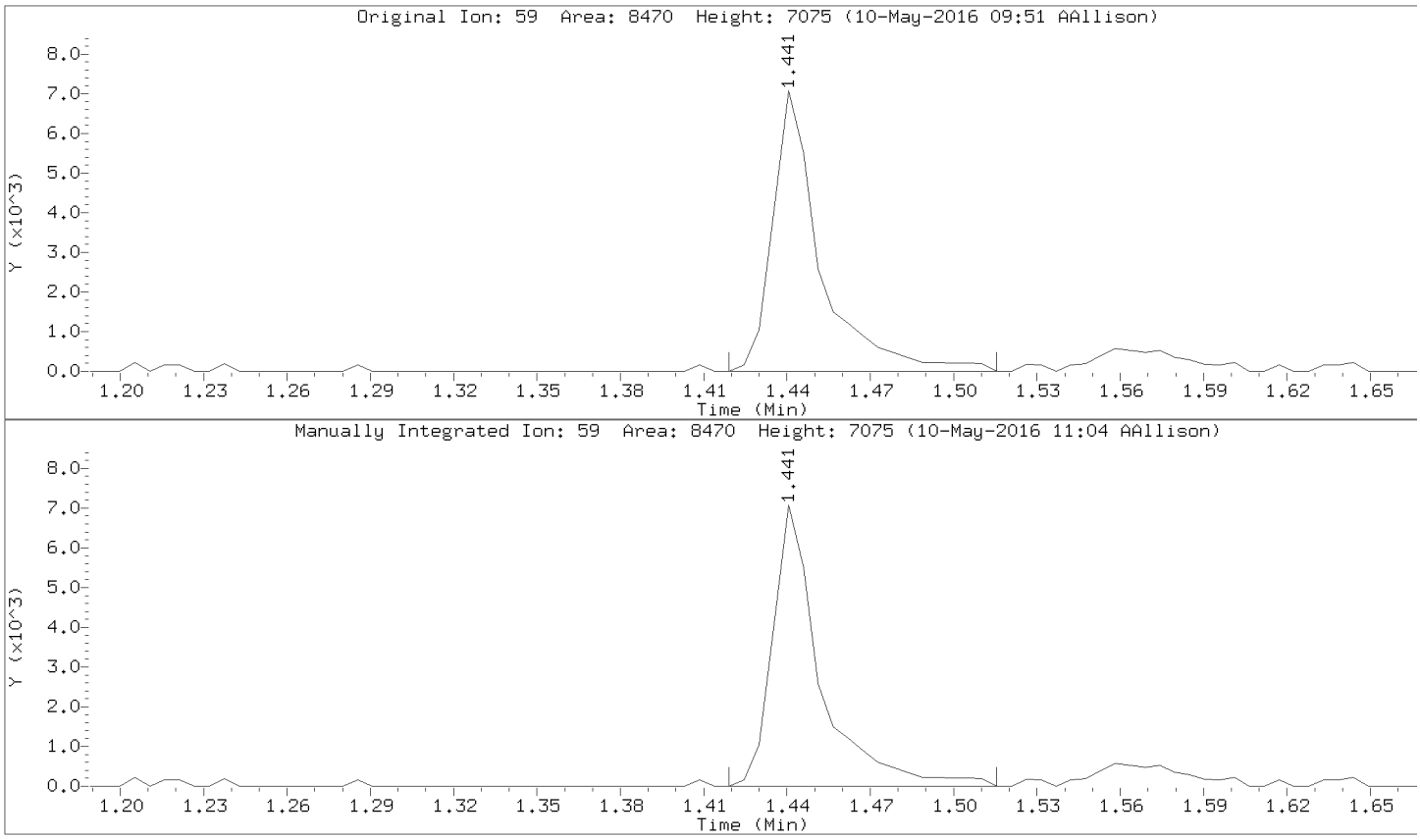






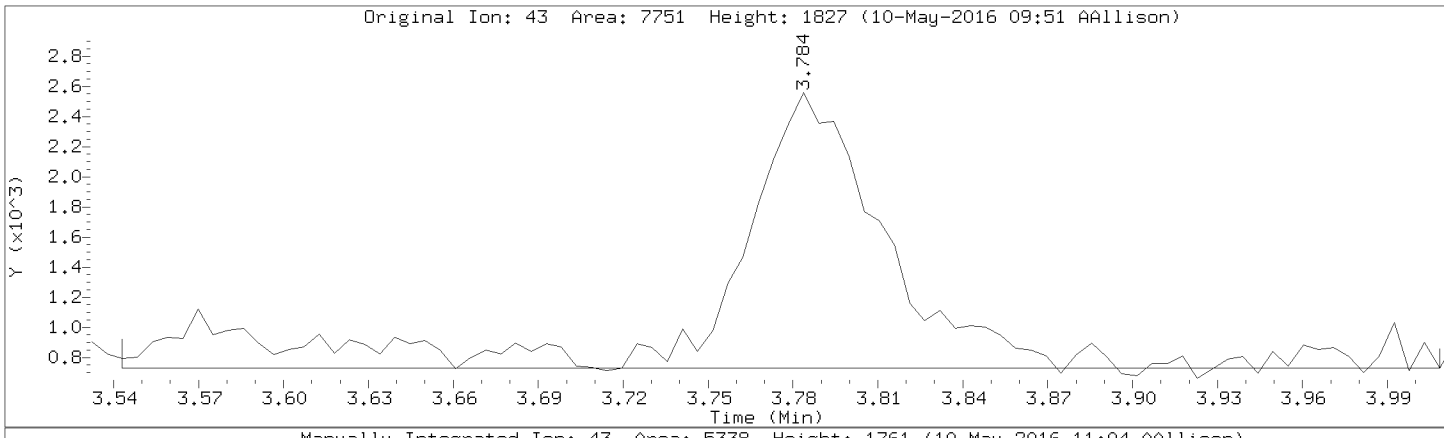


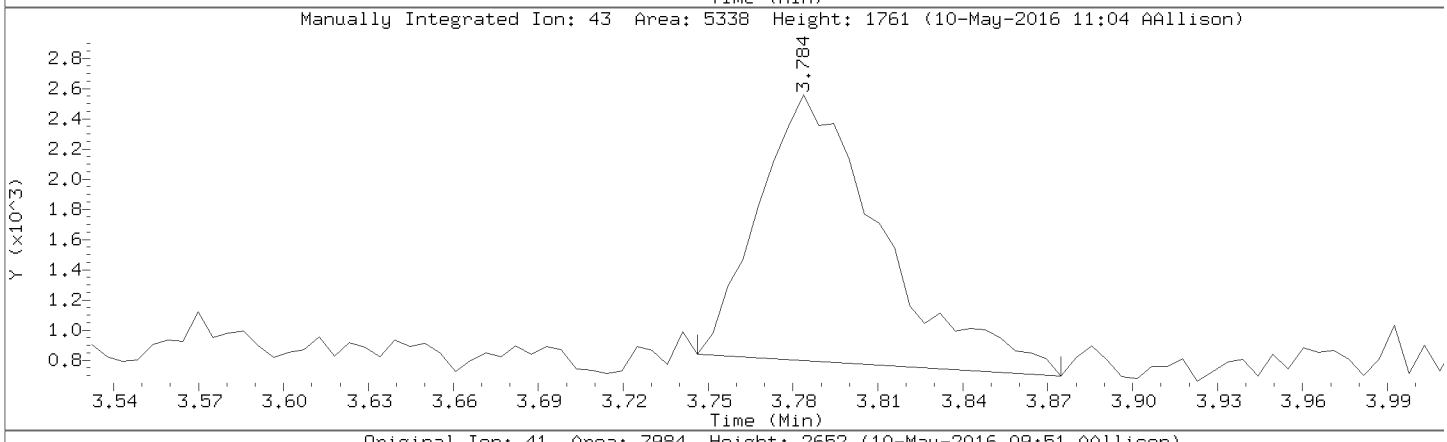
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

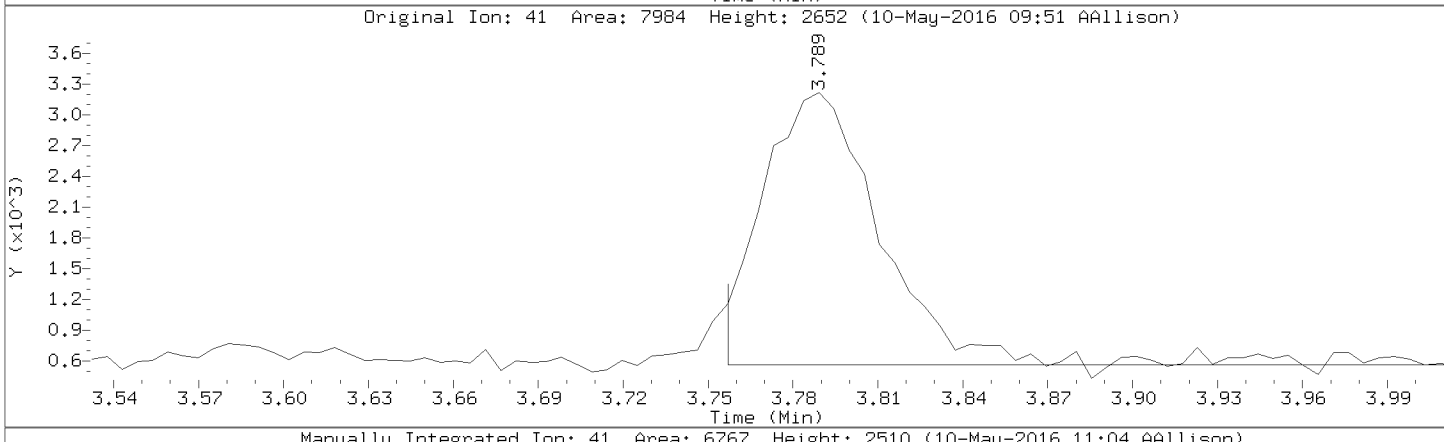


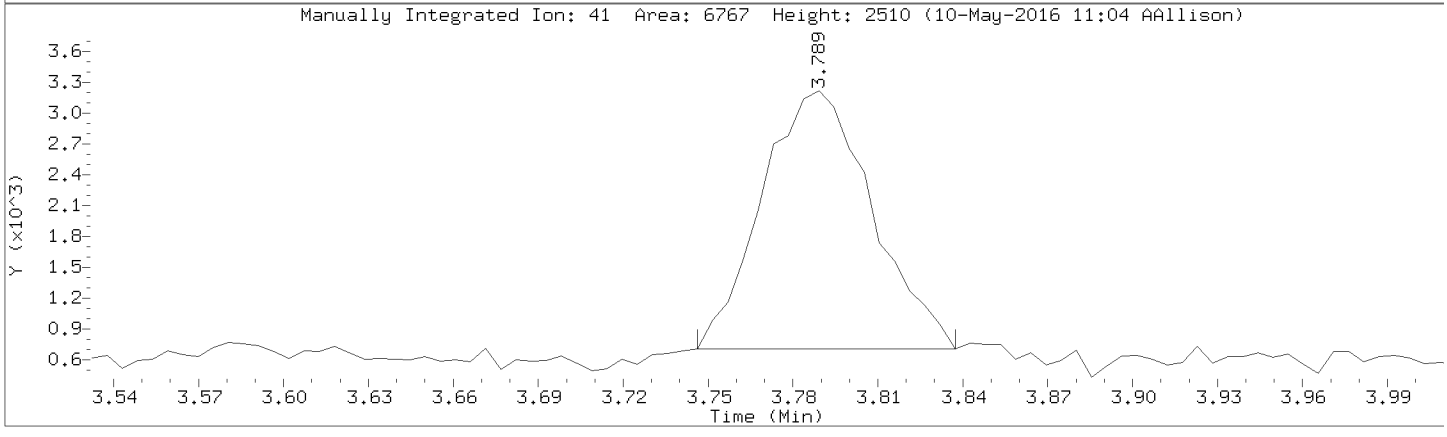
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Isobutyl alcohol Review Code: GT
CAS Number: 78-83-1

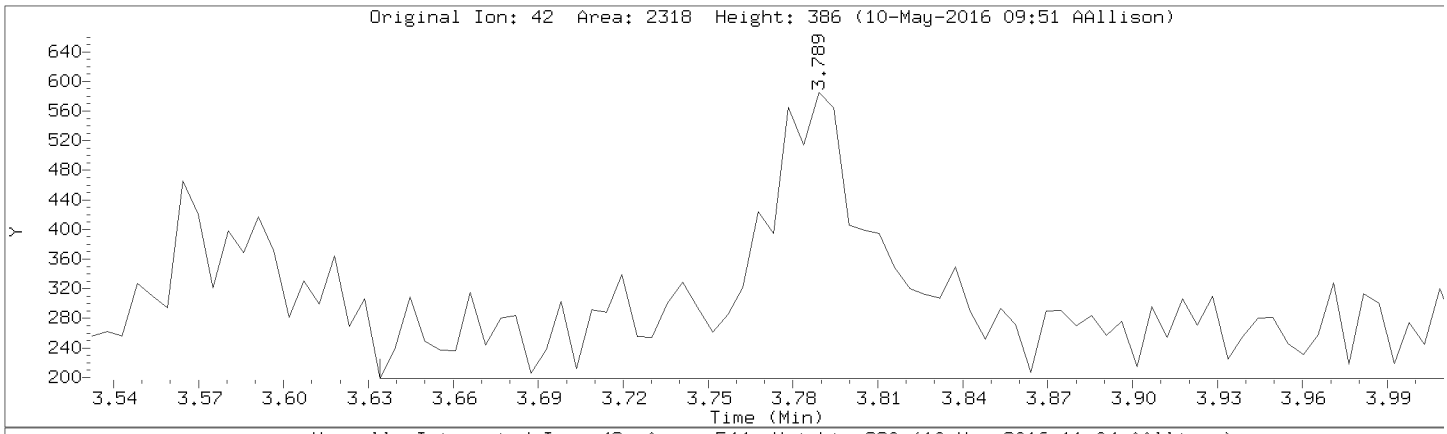


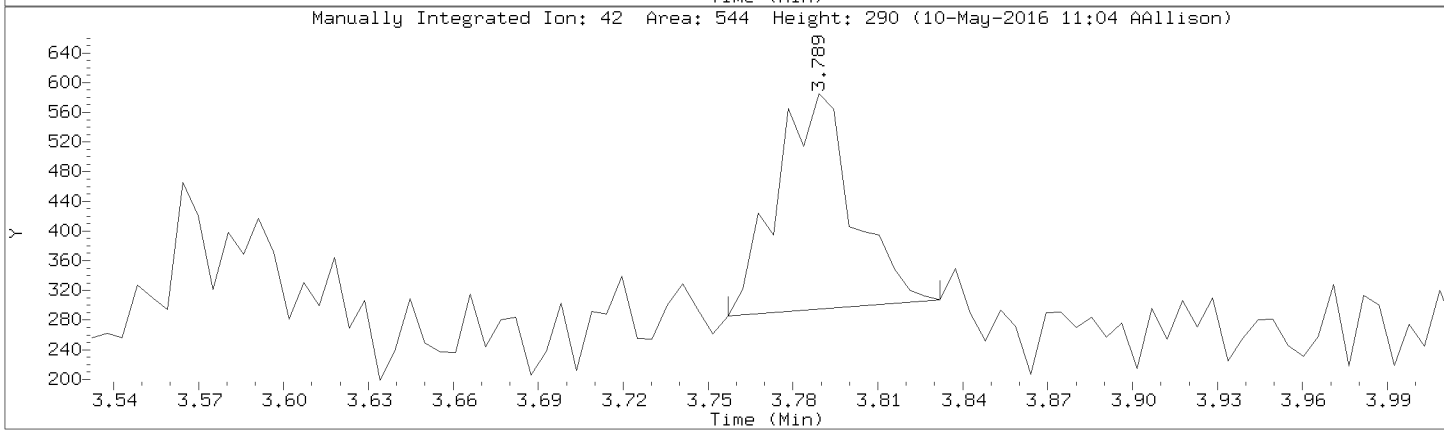






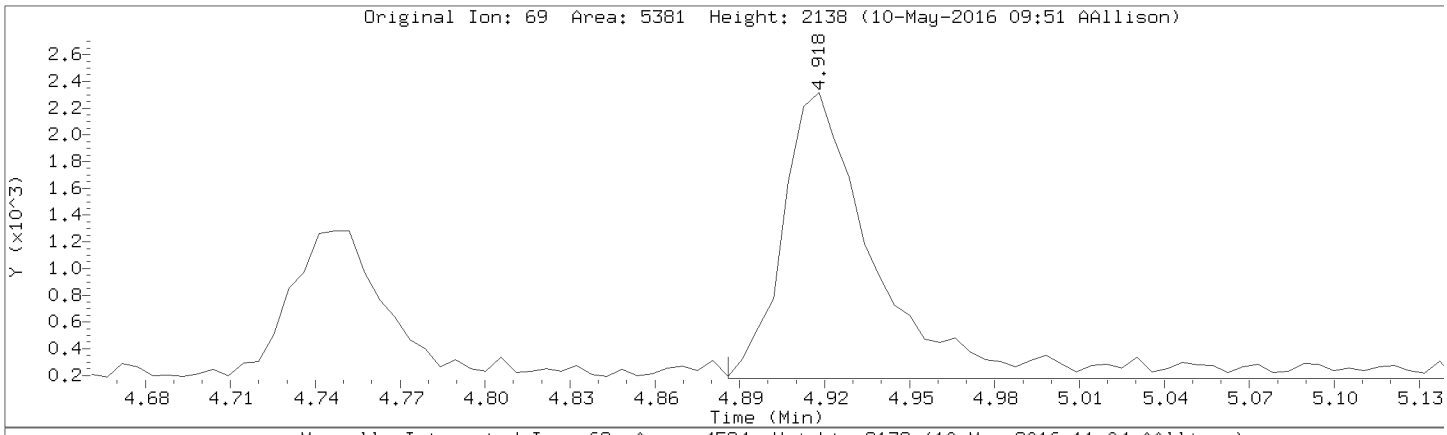
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

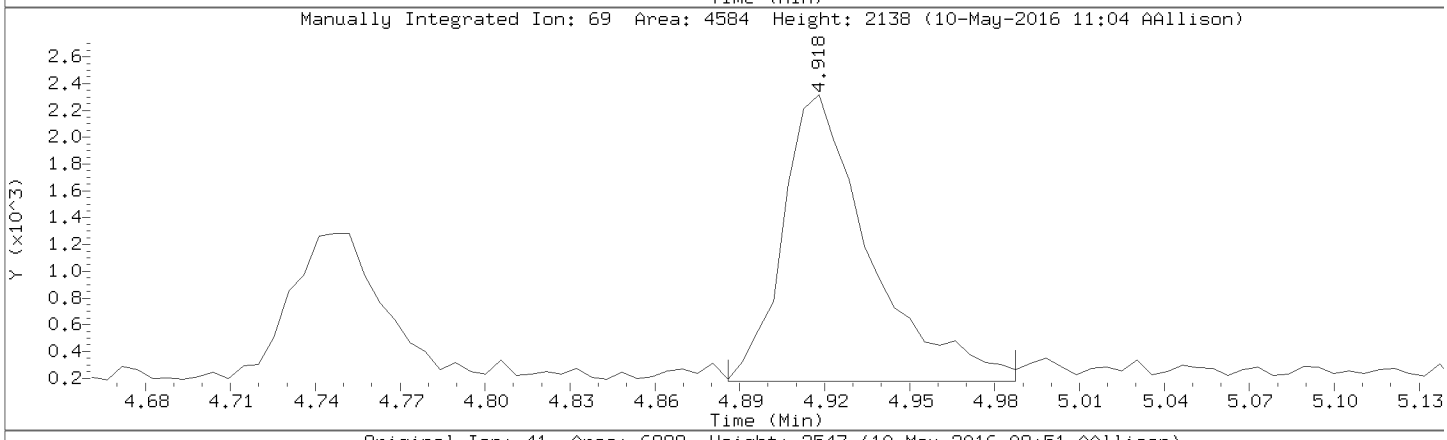


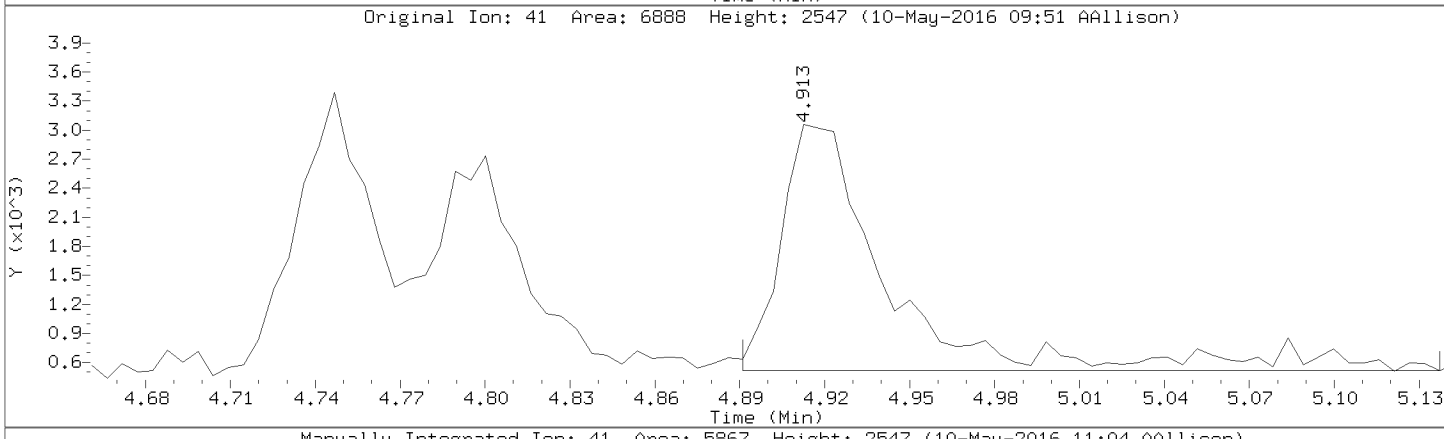


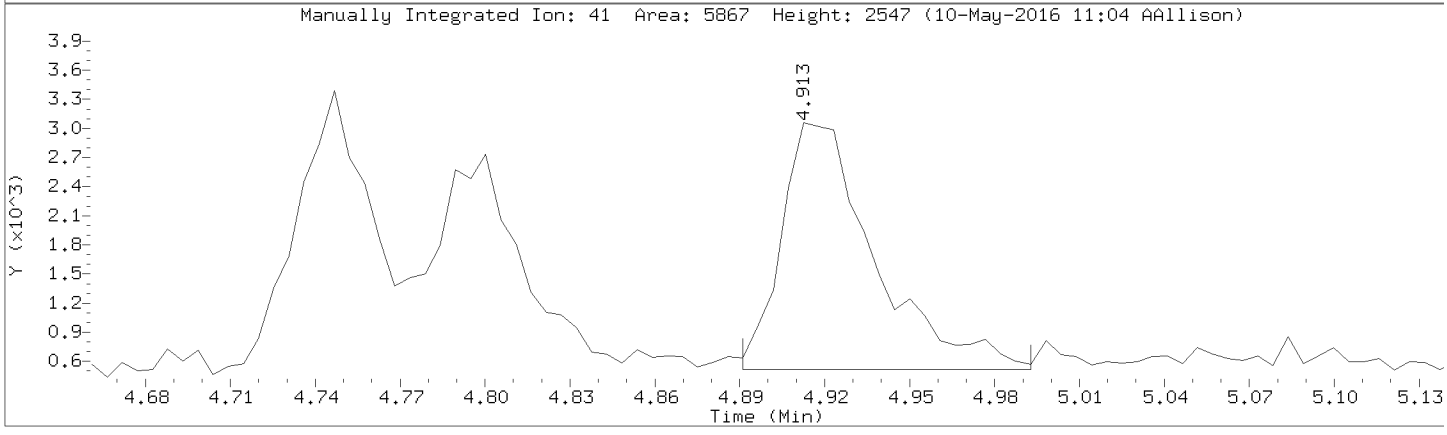
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Methyl methacrylate Review Code: GT
CAS Number: 80-62-6

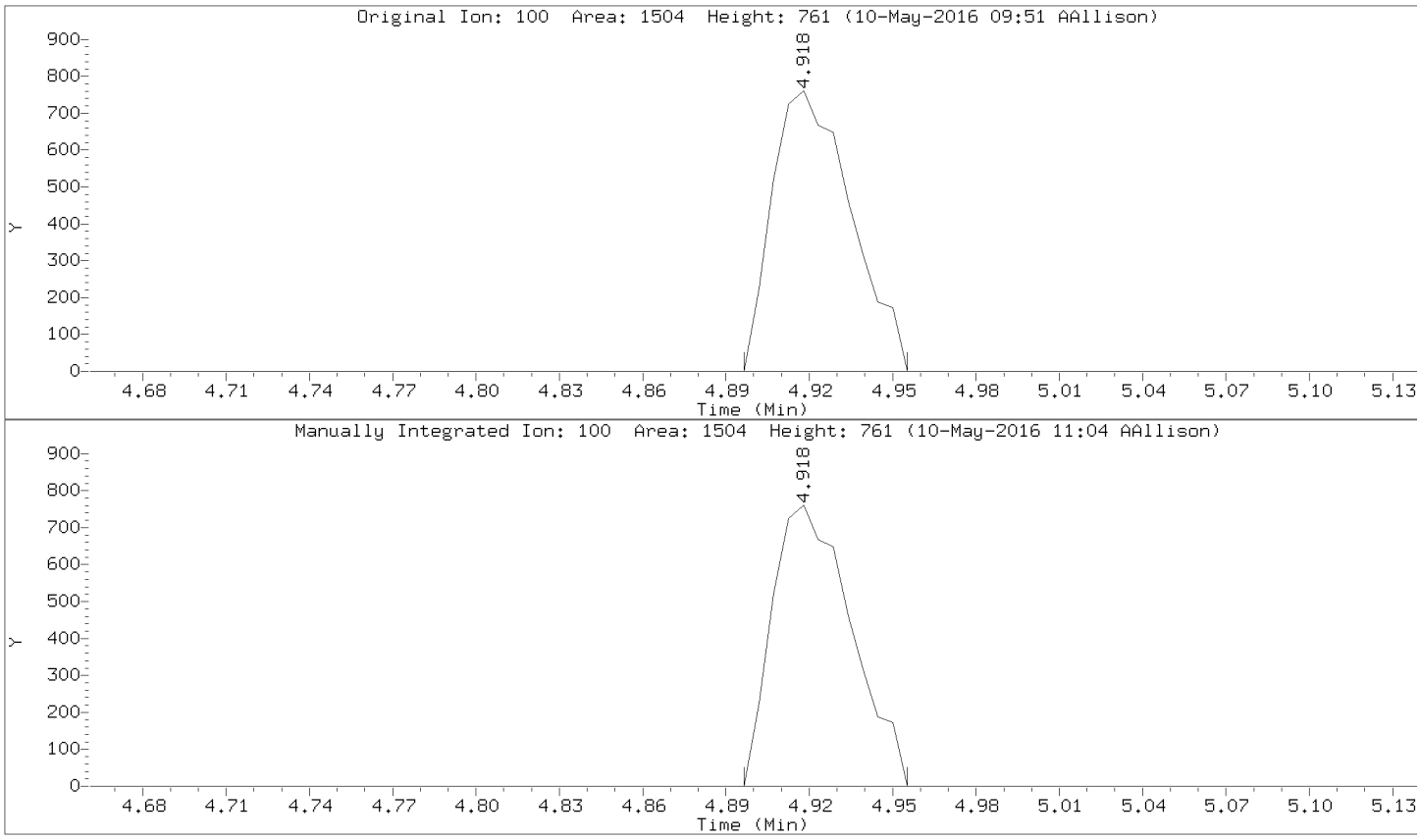






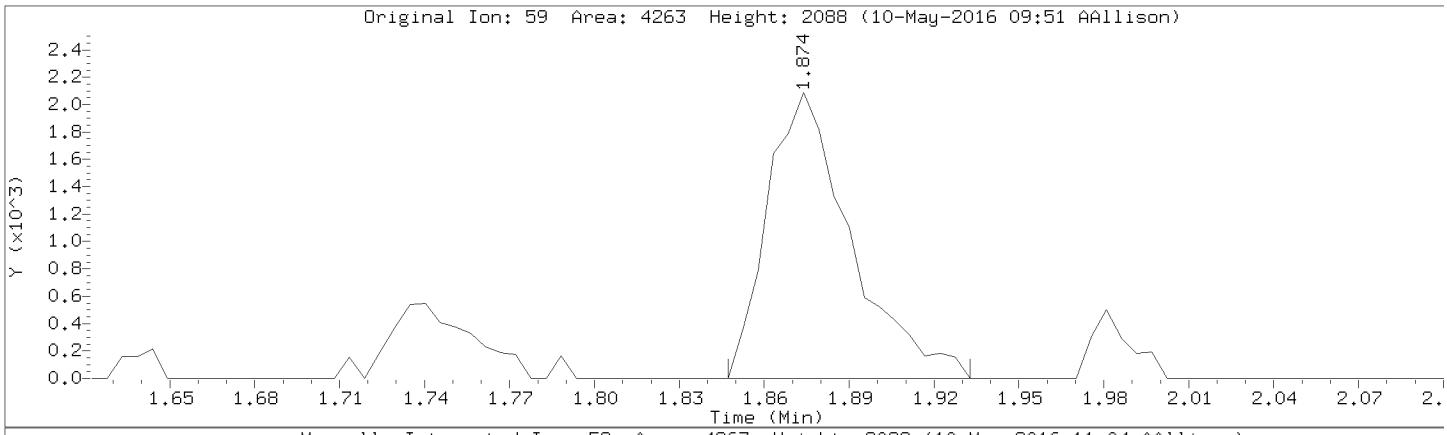


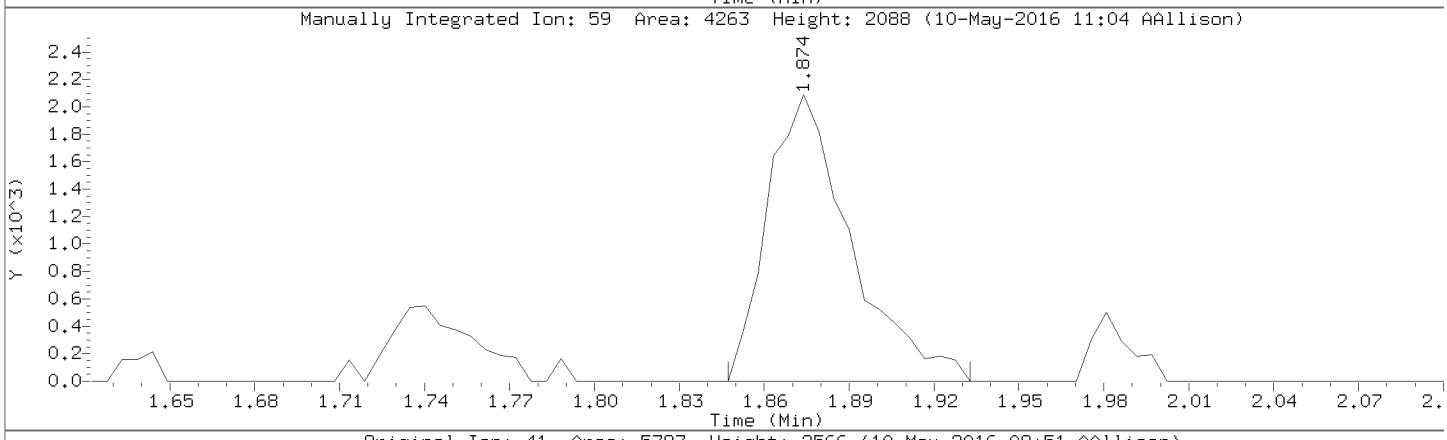
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

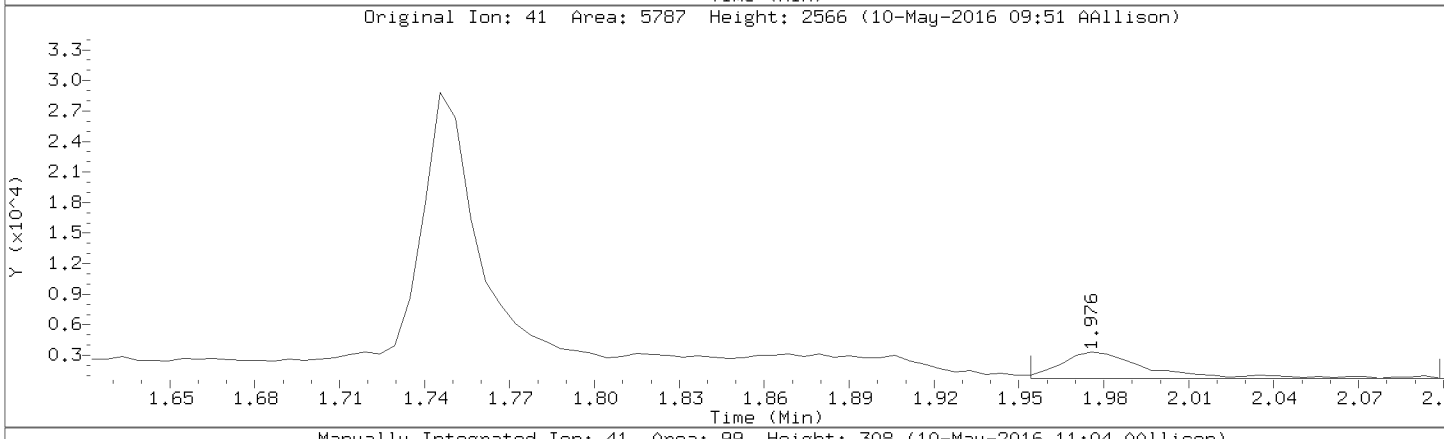


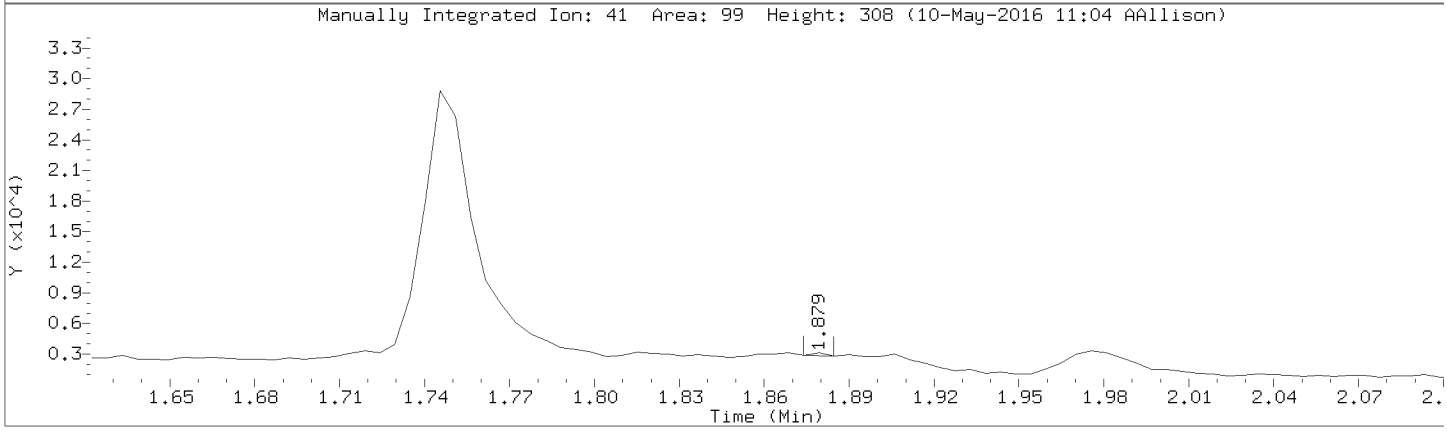
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



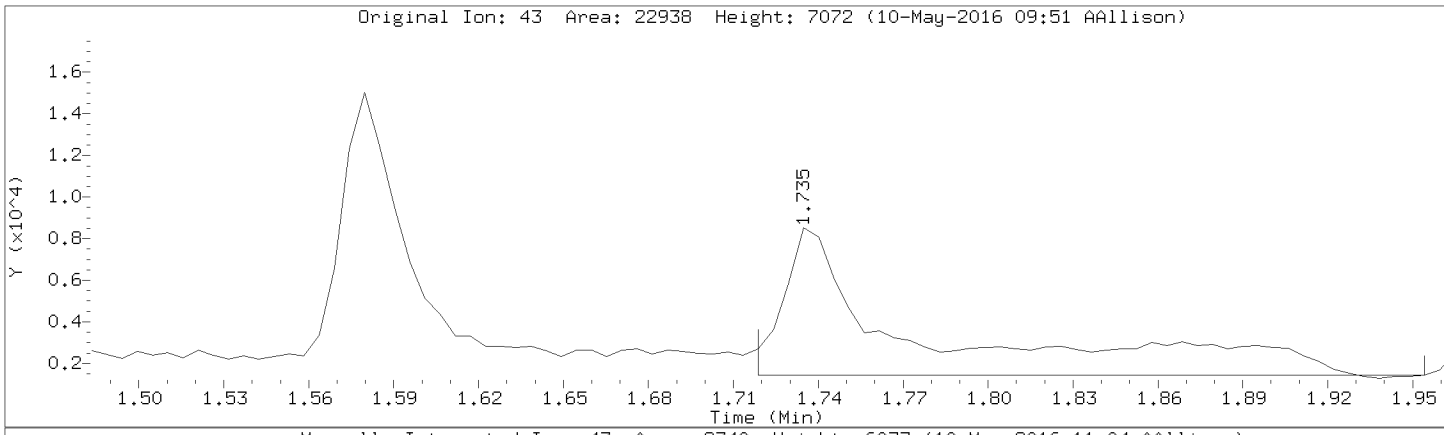


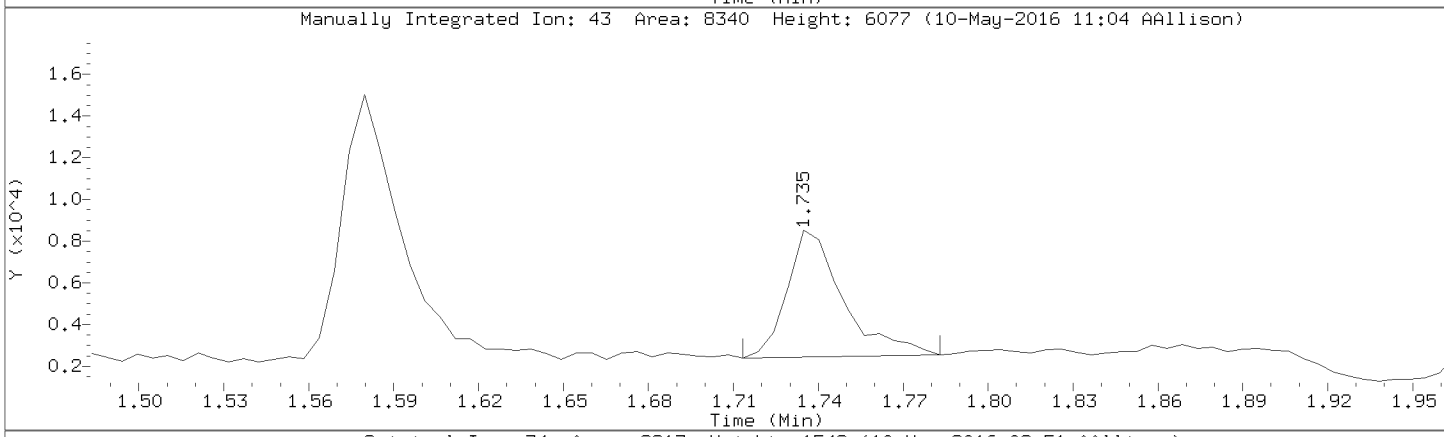


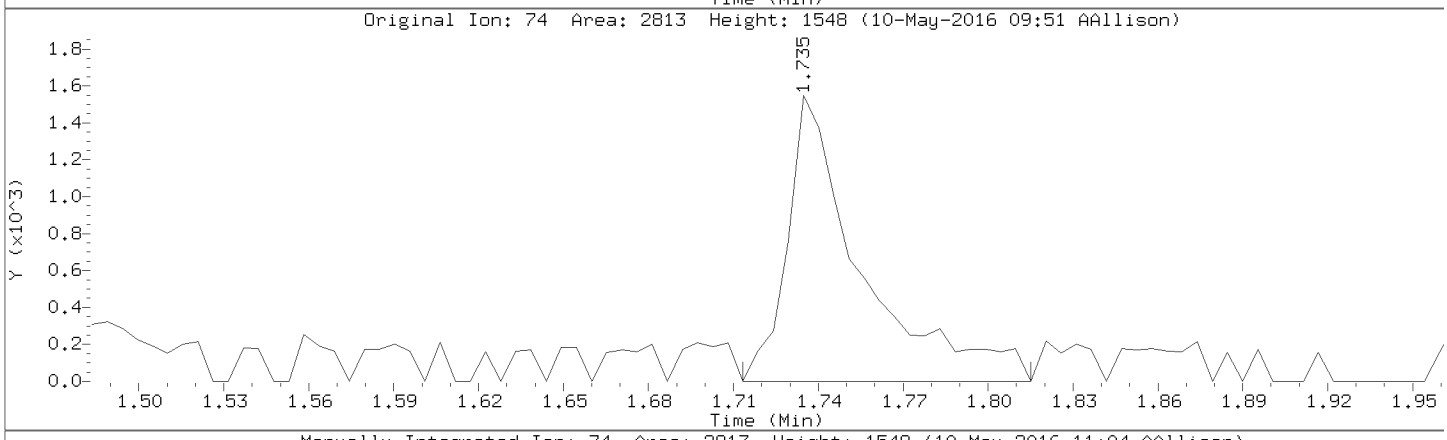


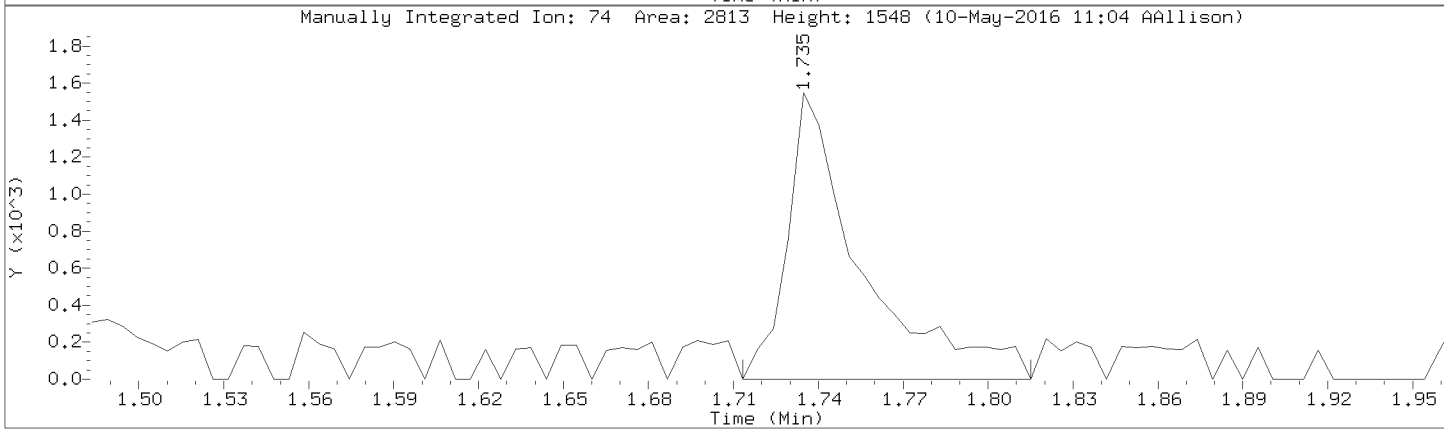
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9



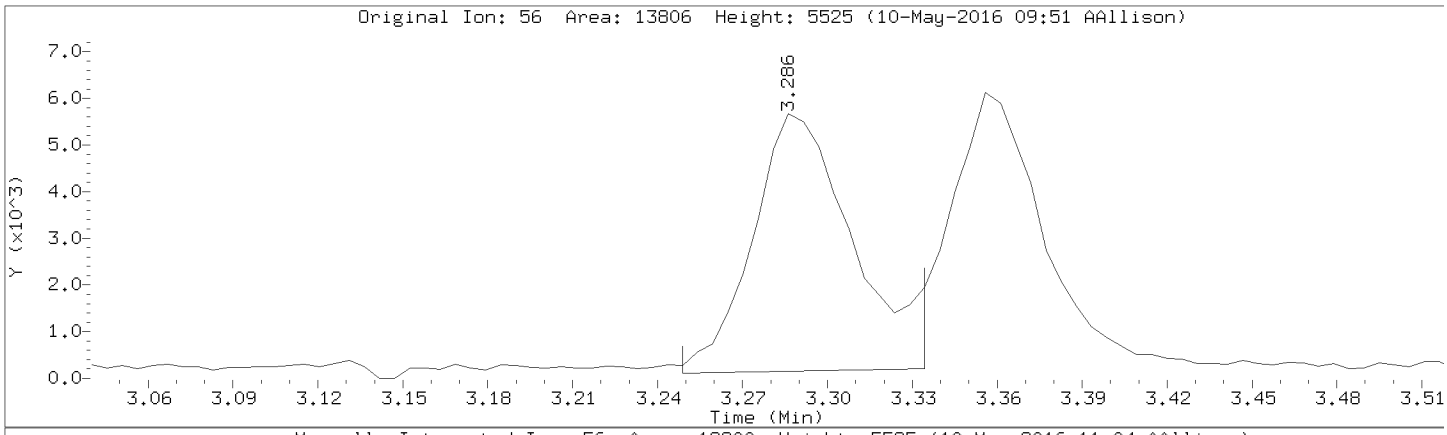


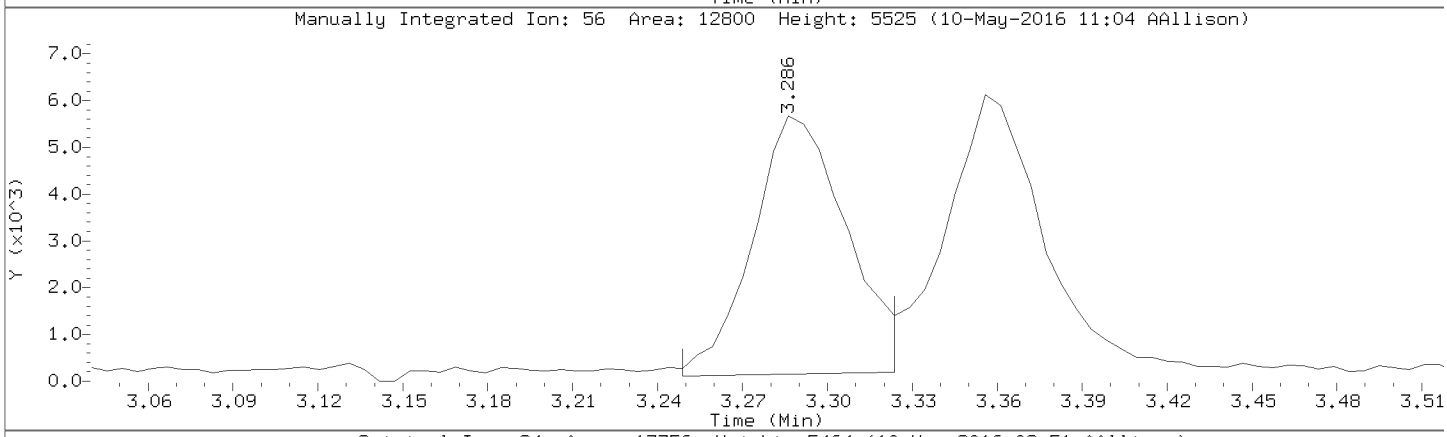


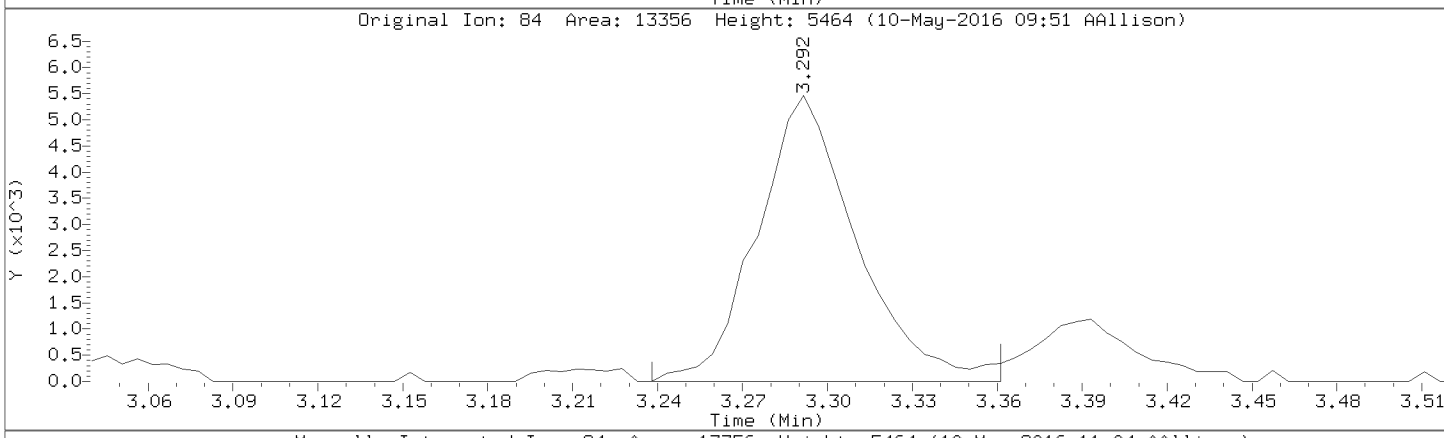


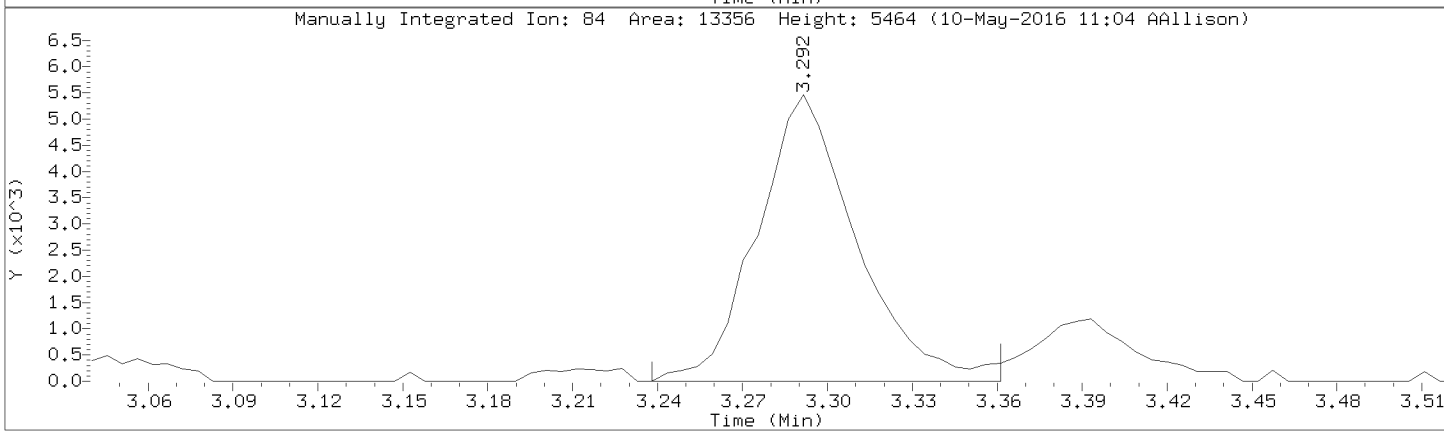
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Cyclohexane Review Code: GT
CAS Number: 110-82-7

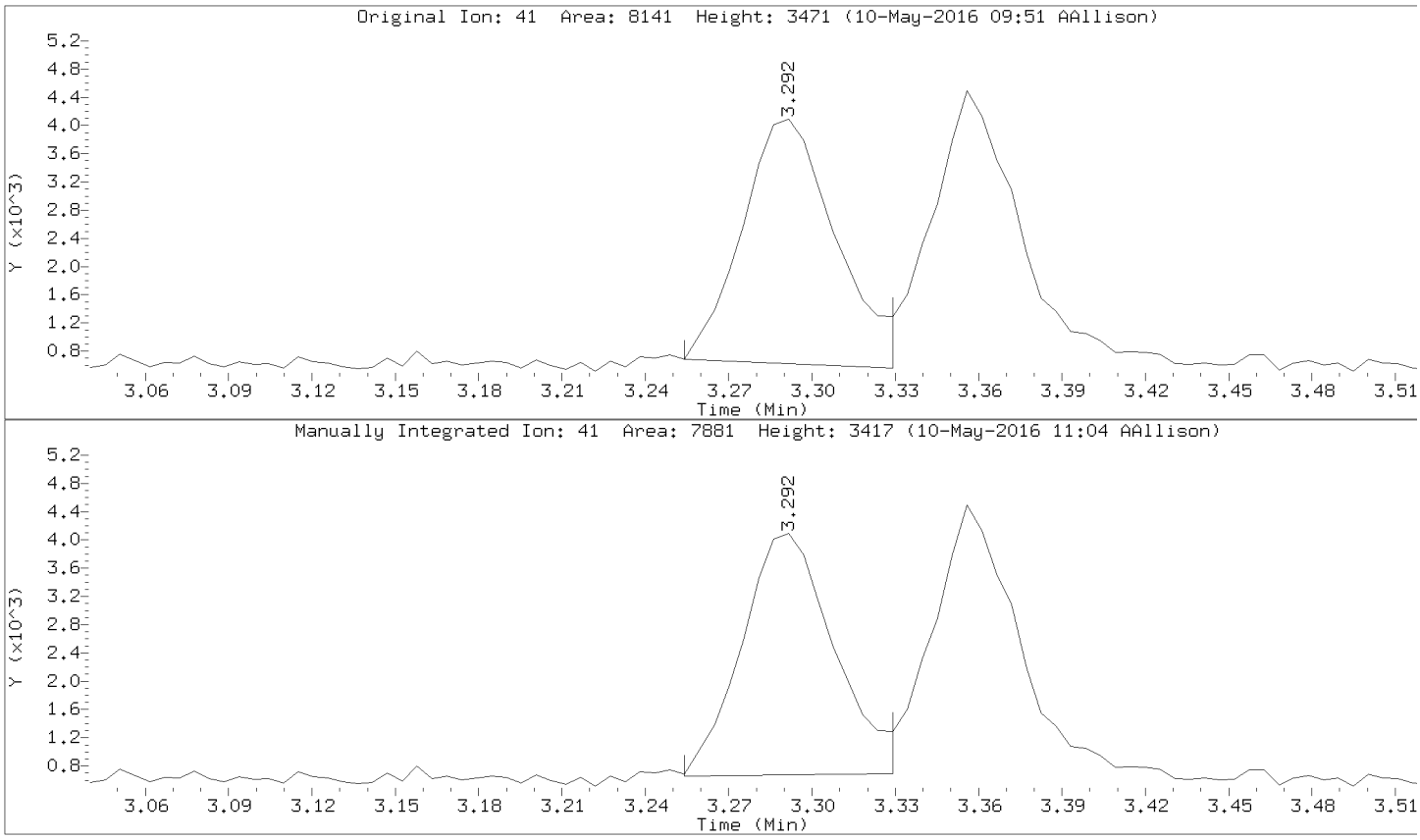






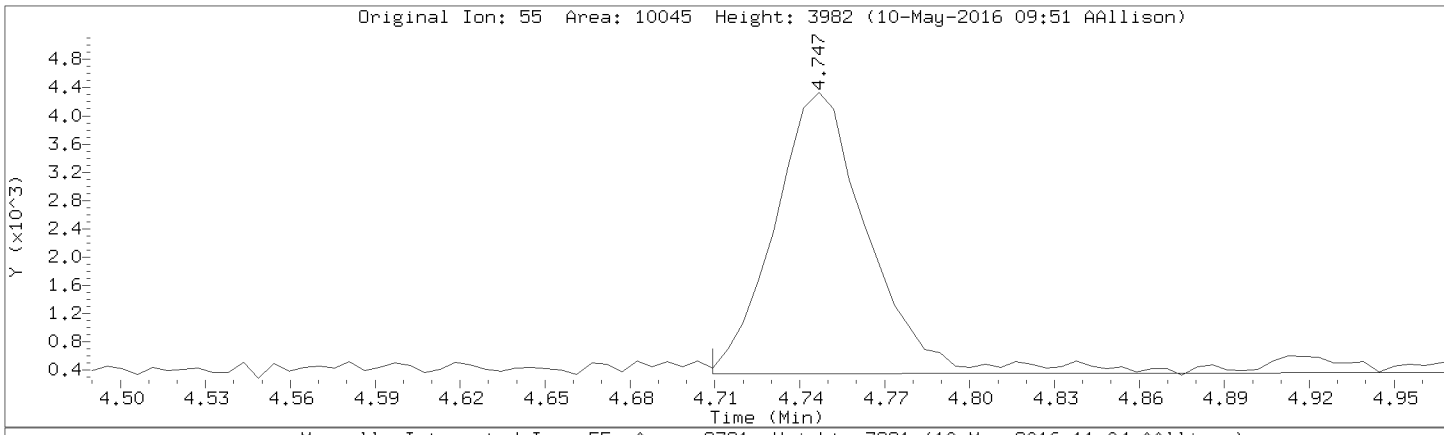


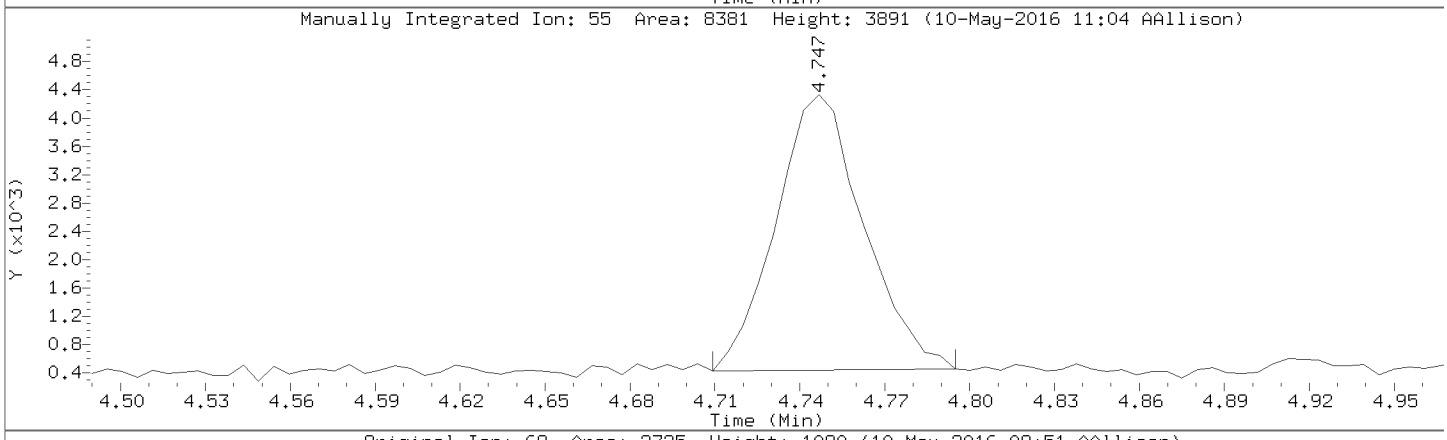
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

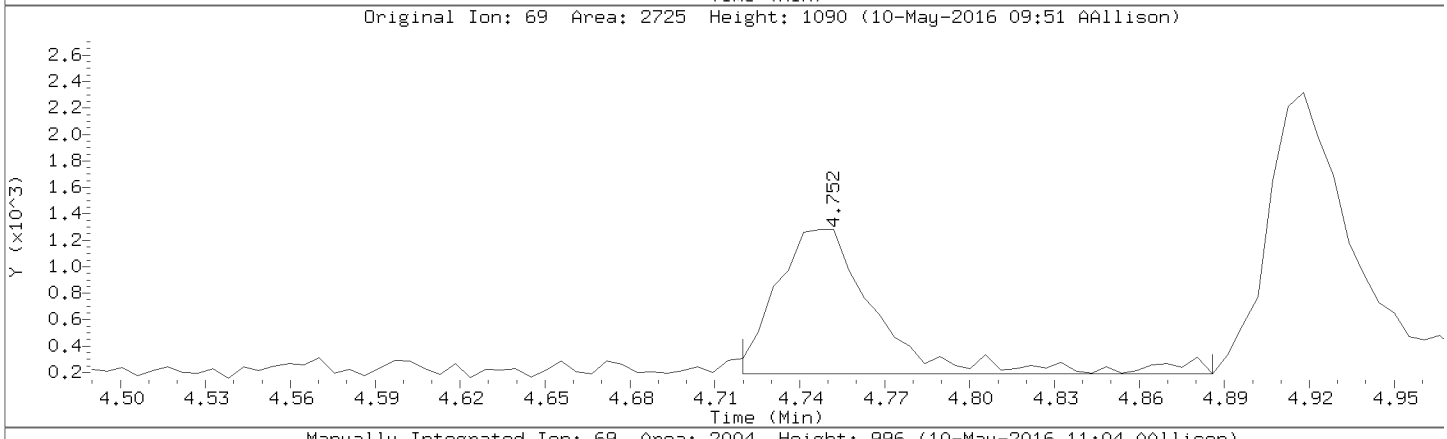


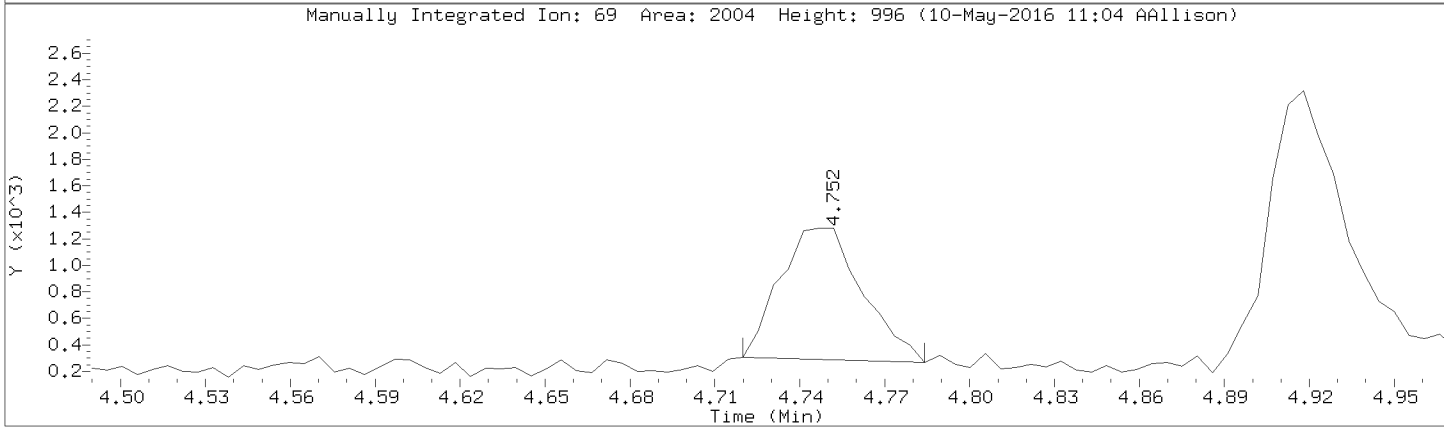
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Methylcyclohexane Review Code: GT
CAS Number: 108-87-2

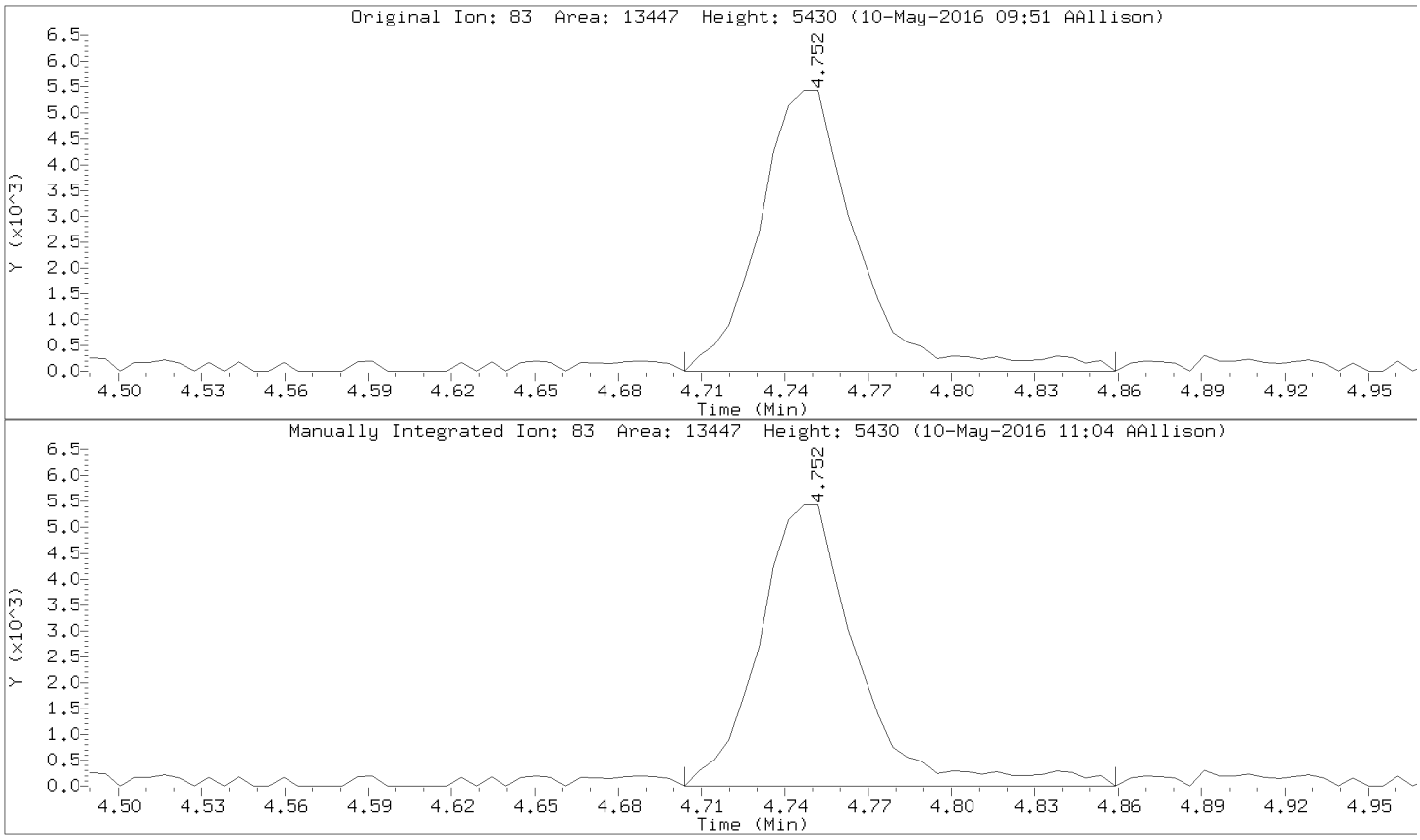






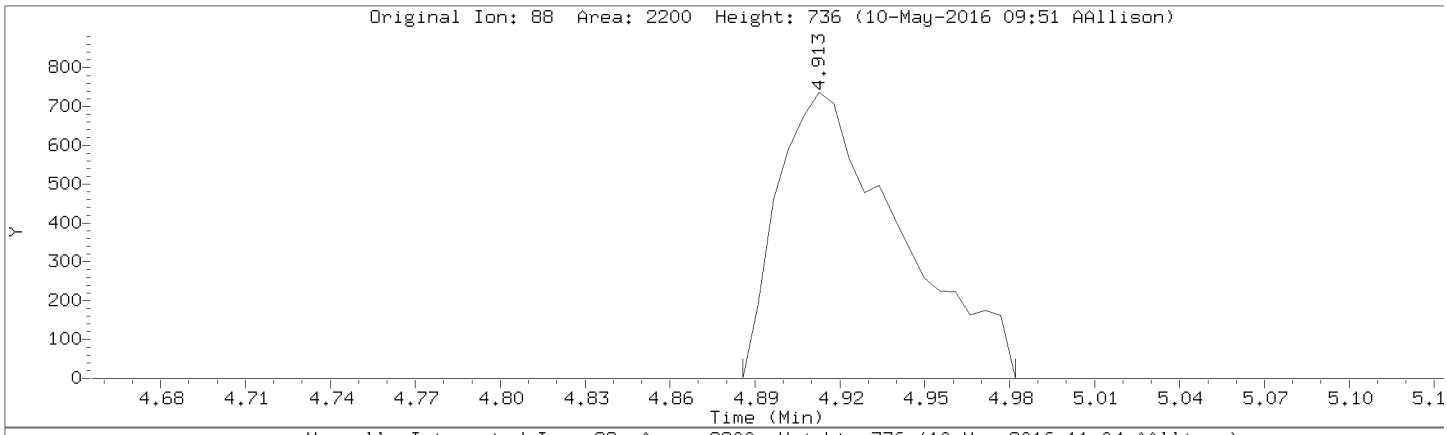


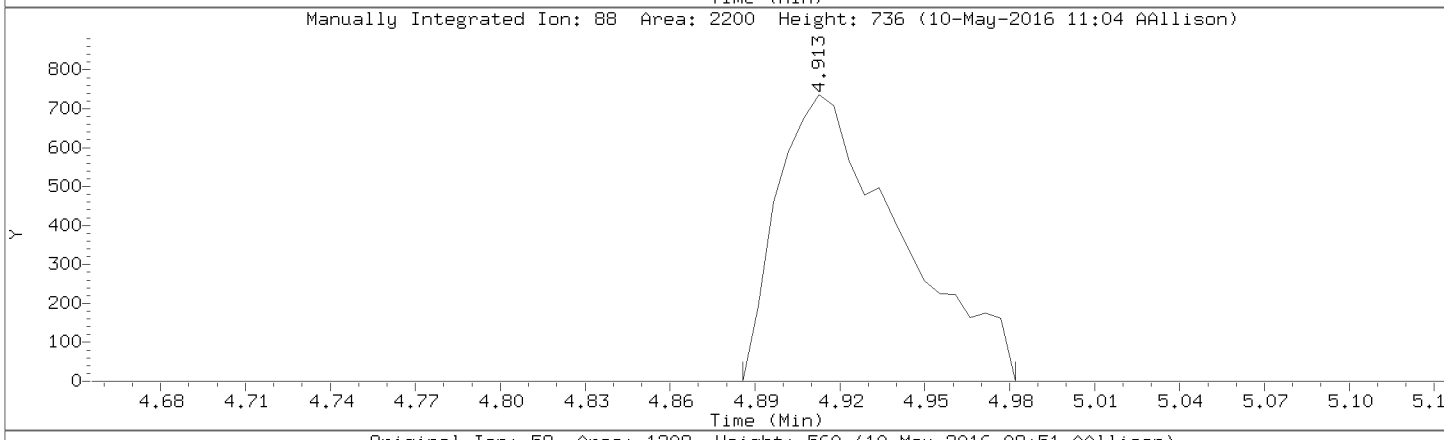
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

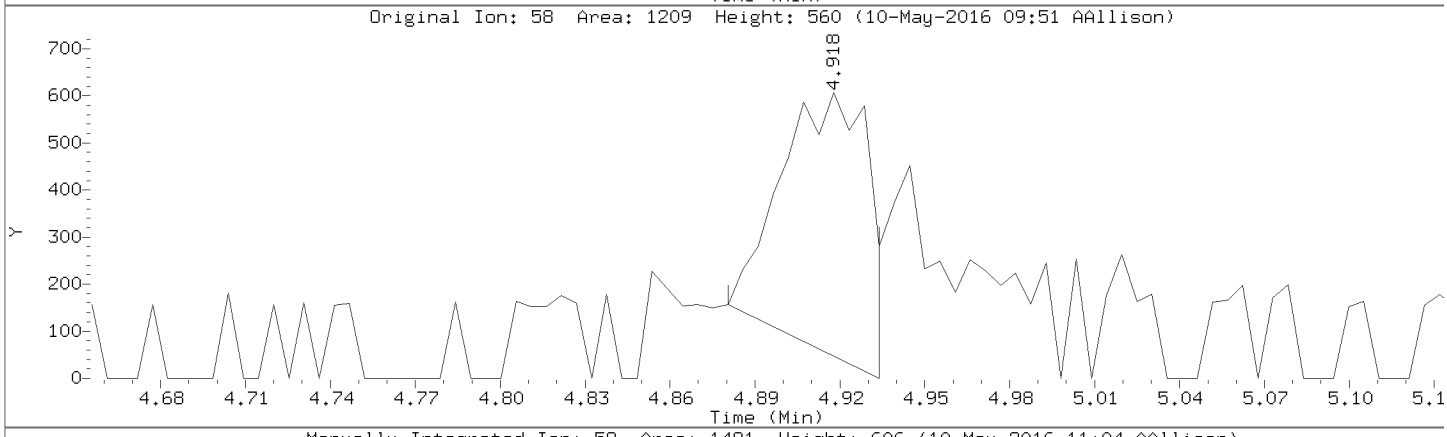


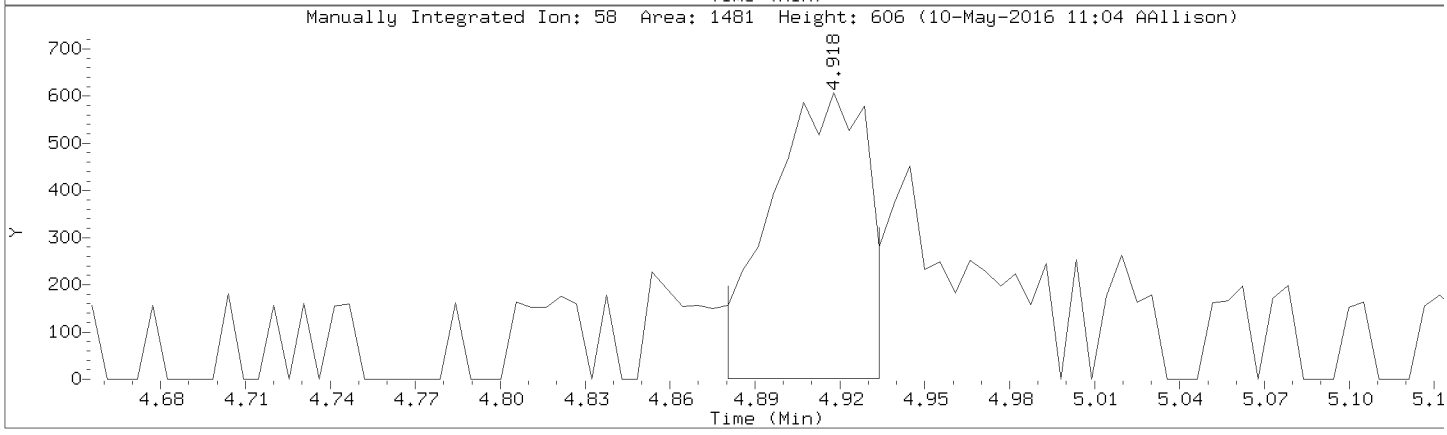
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: 1,4-Dioxane Review Code: LT
CAS Number:



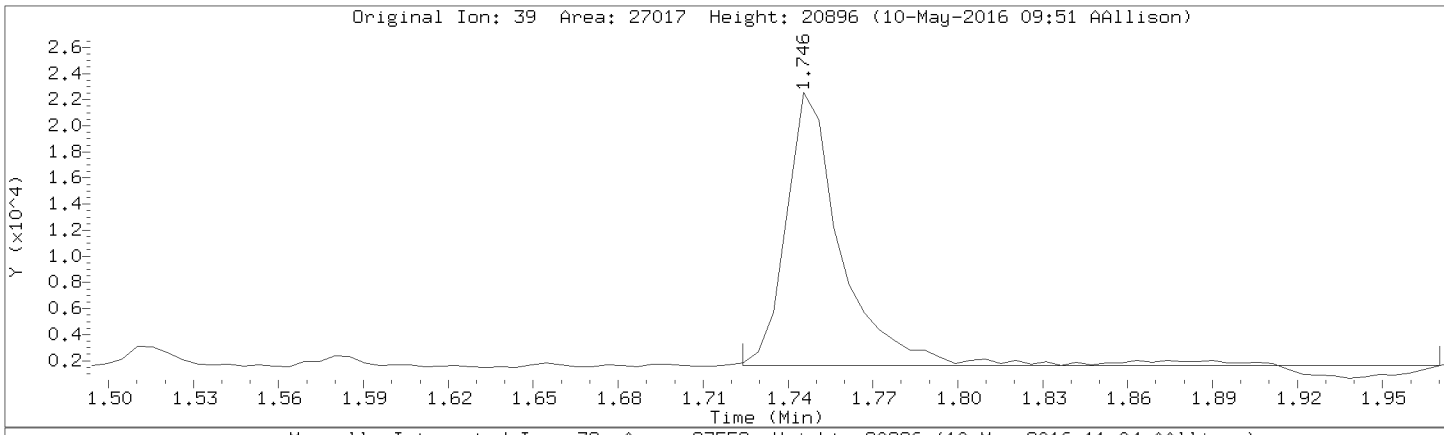


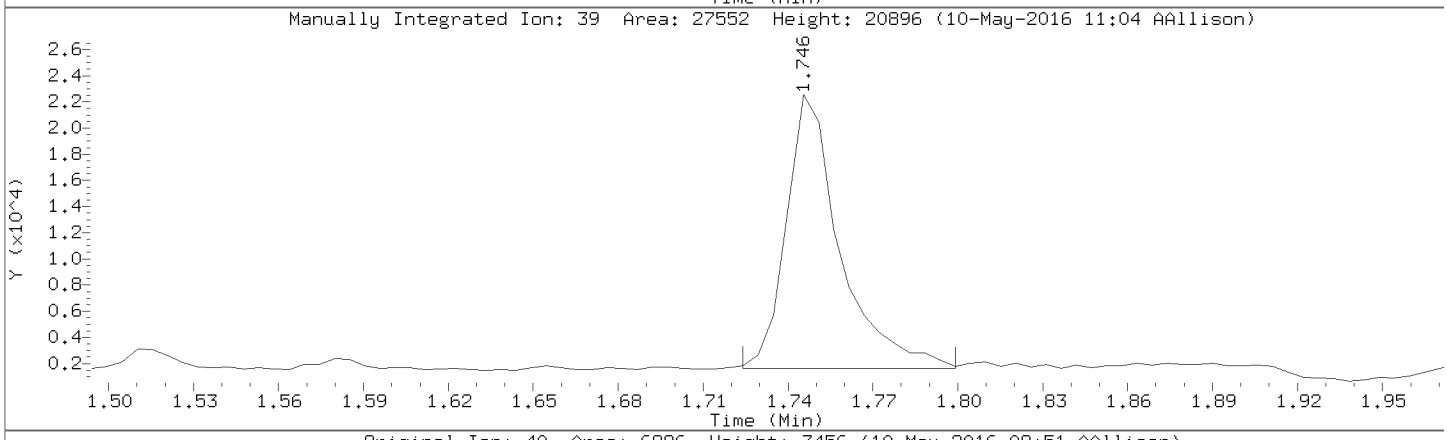


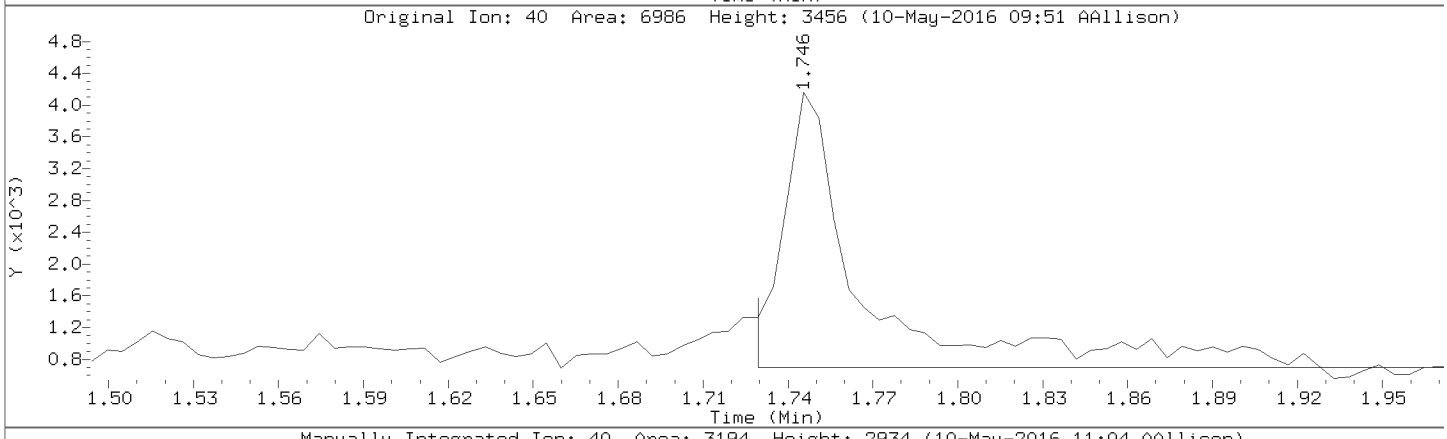


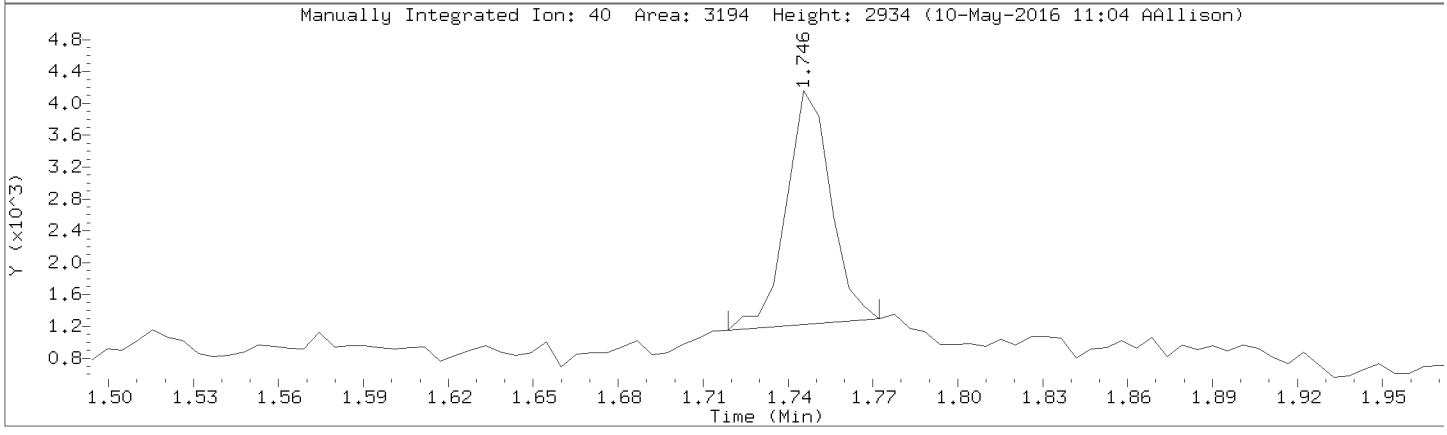
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8

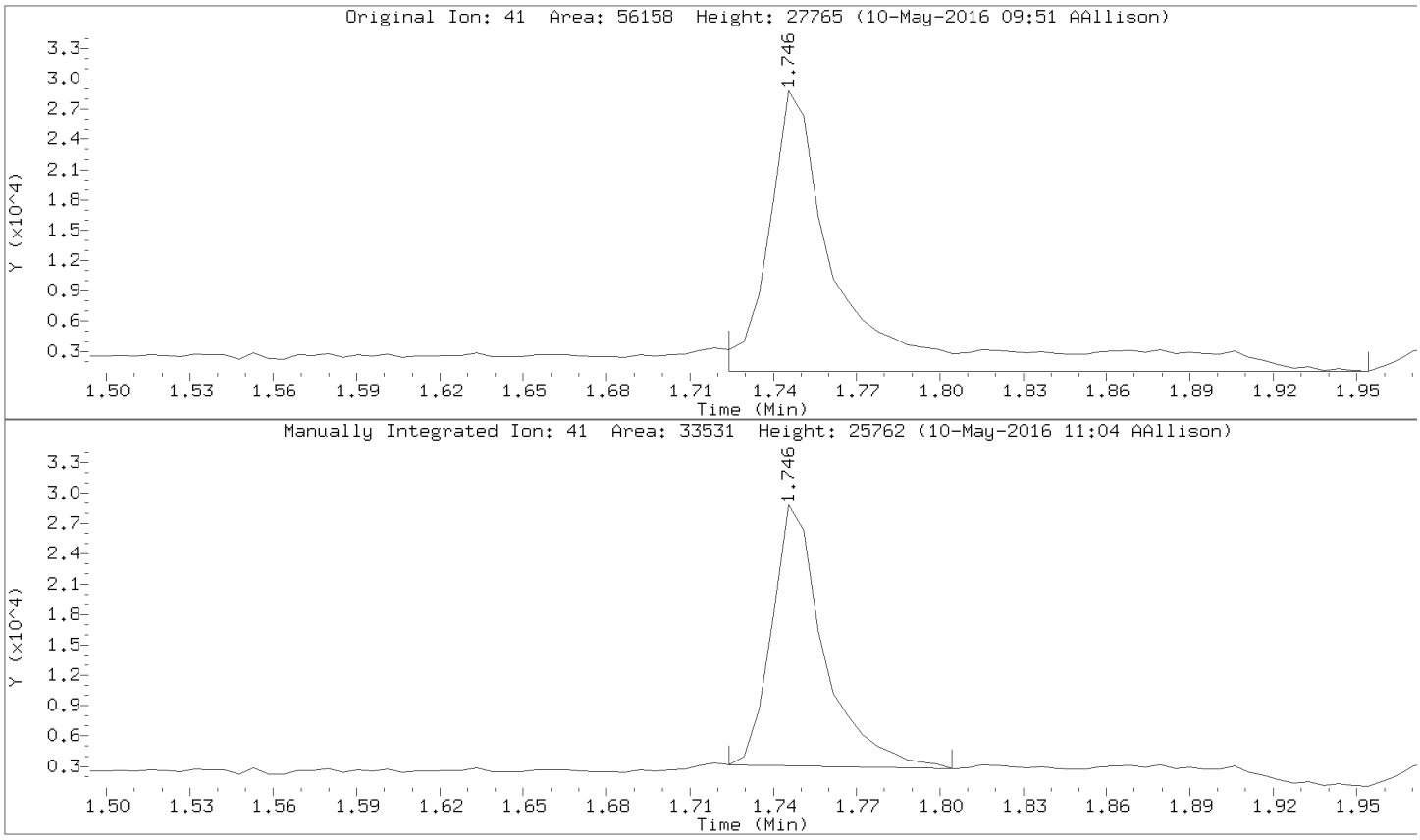






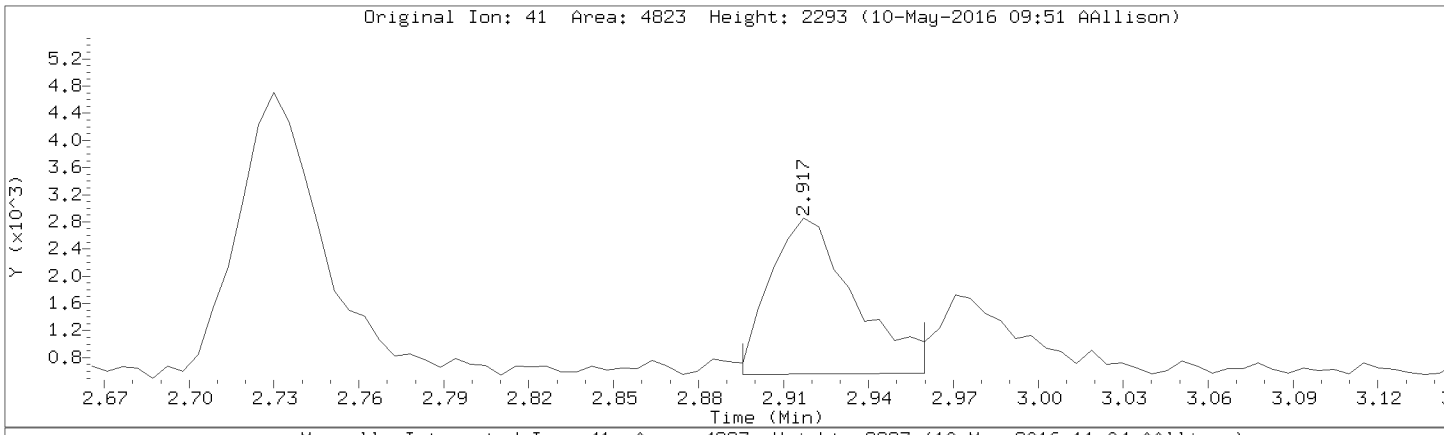


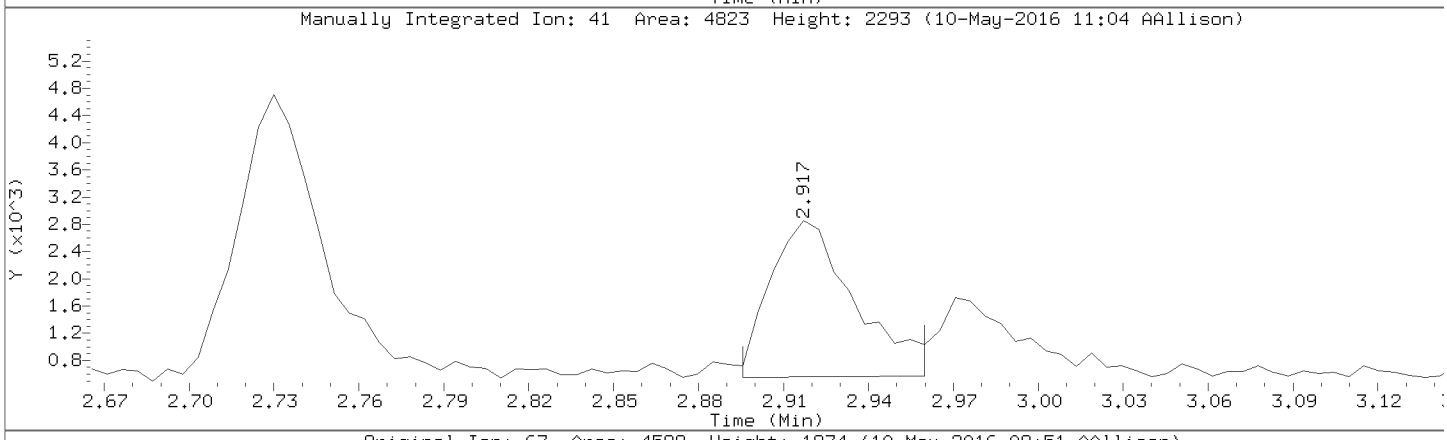
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

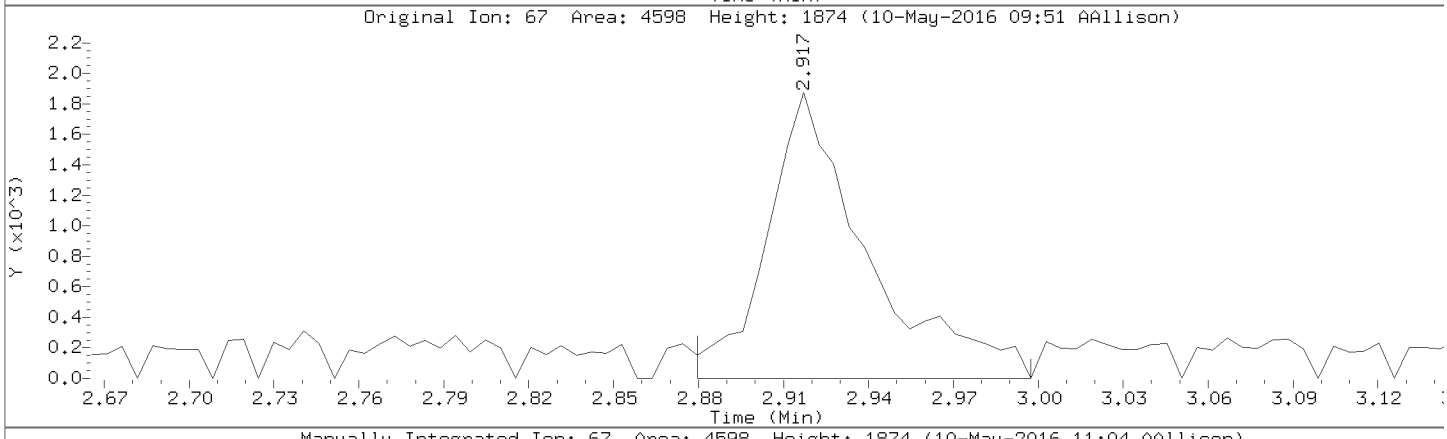


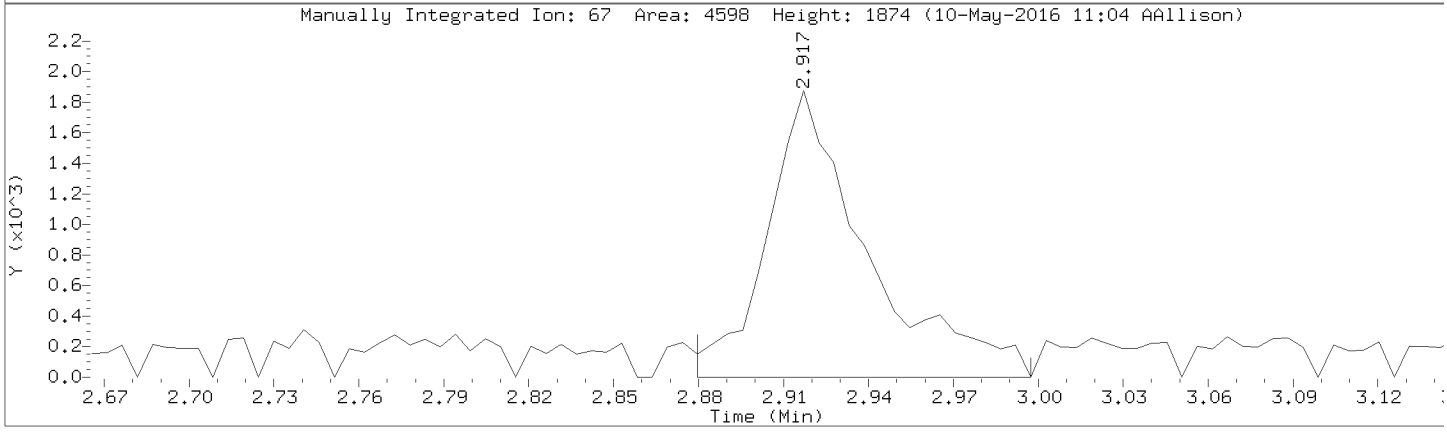
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Methacrylonitrile Review Code: GT
CAS Number: 126-98-7

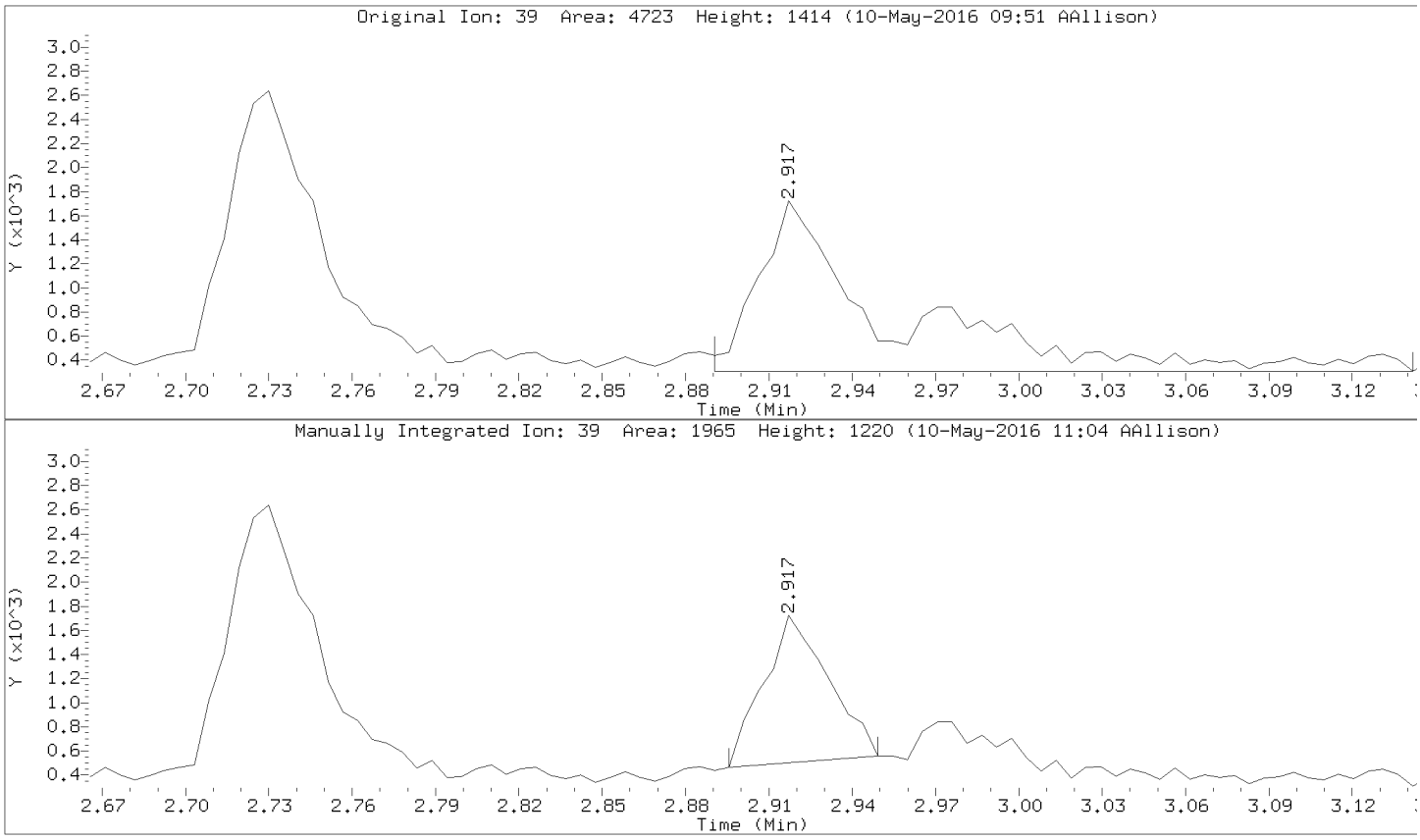






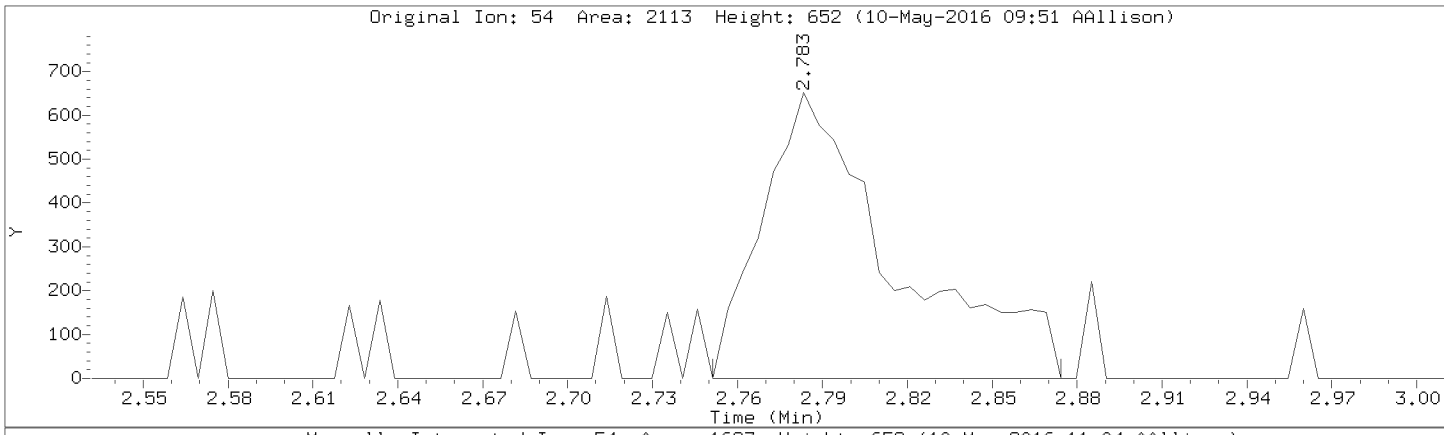


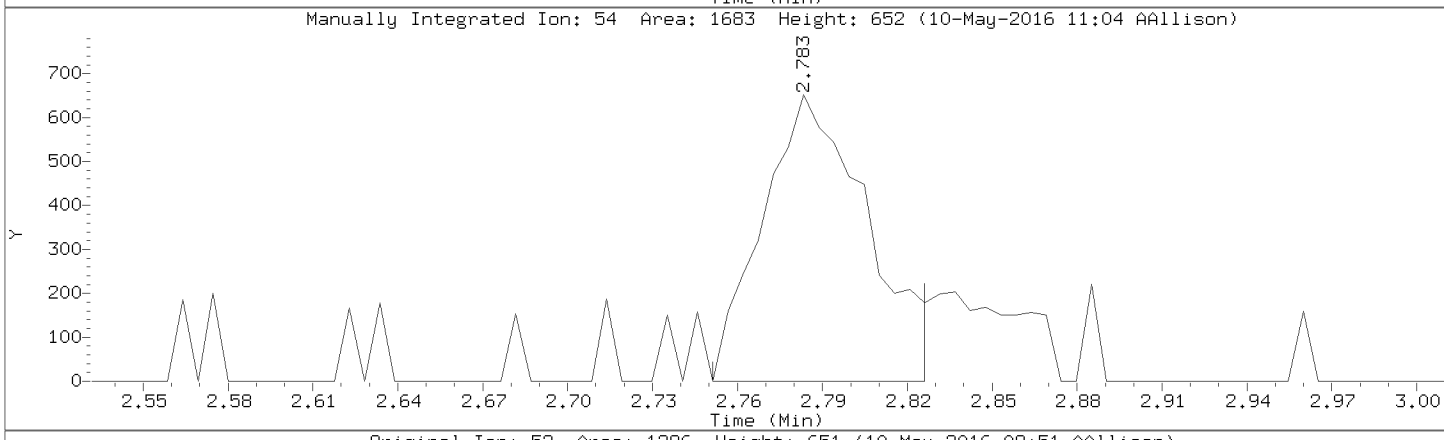
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

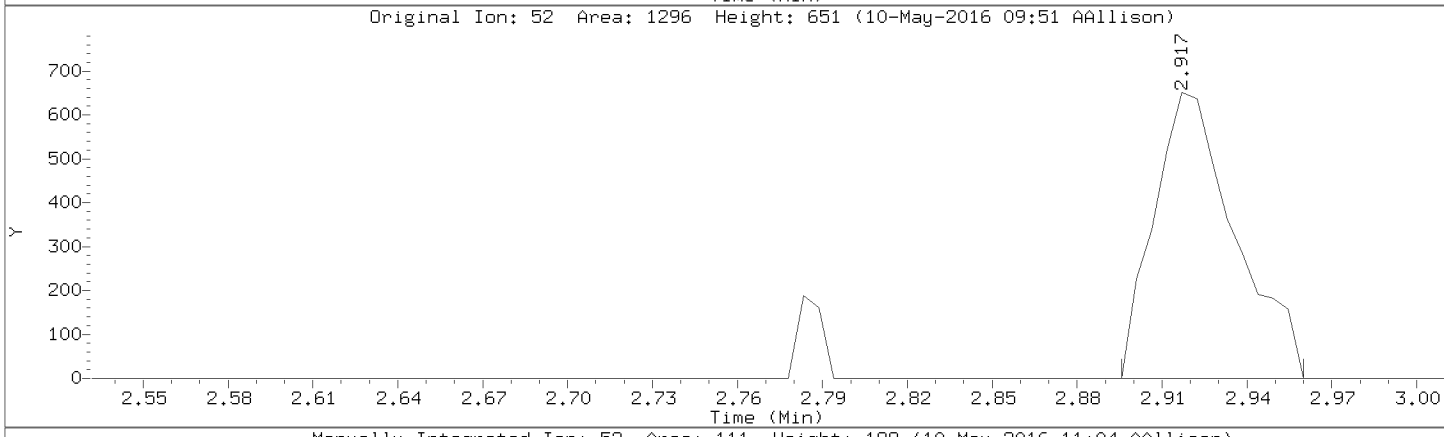


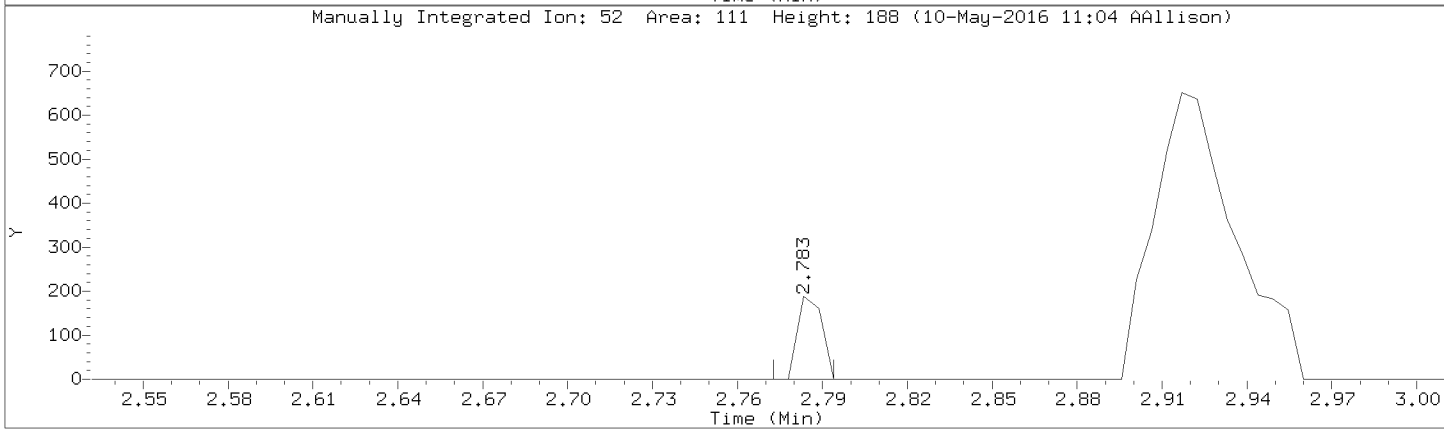
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3

Compound: Propionitrile Review Code: GT
CAS Number:

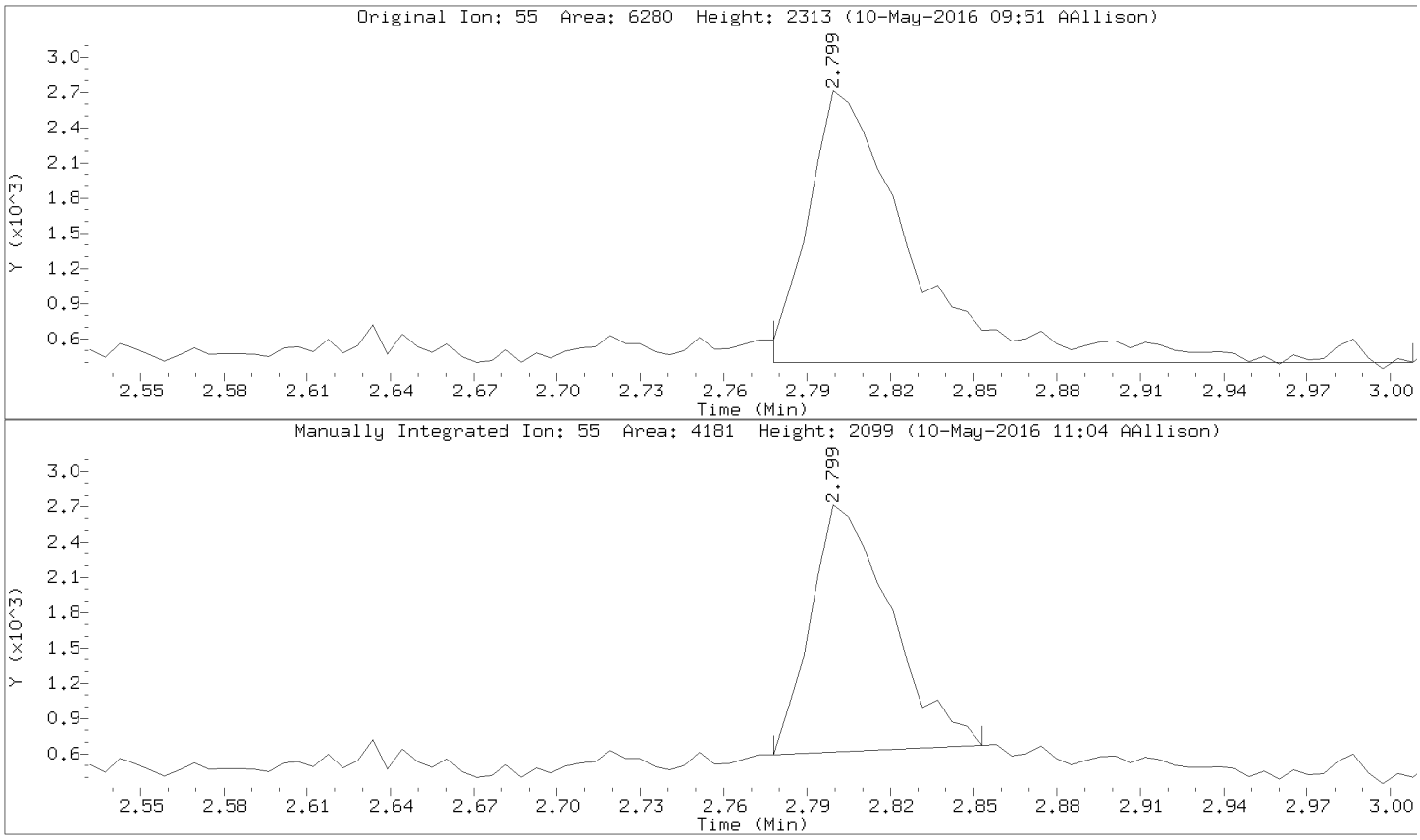








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a03.d
Injection Date: 09-MAY-2016 20:52
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL3



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a04.d
Lab Smp Id: 8260-CAL4 Client Smp ID: 8260-CAL4
Inj Date : 09-MAY-2016 21:30
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal4,121032:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	28374	10.0000	11.3
2	Chloromethane	50	0.996	0.986	(0.247)	15214	10.0000	8.27(M)
3	Vinyl Chloride	62	1.034	1.034	(0.257)	26369	10.0000	9.78
4	Bromomethane	94	1.167	1.168	(0.290)	6076	10.0000	11.2(M)
5	Chloroethane	64	1.210	1.210	(0.300)	16481	10.0000	10.4
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	48175	10.0000	10.5
8	Diethyl ether	74	1.440	1.440	(0.357)	15085	10.0000	10.4
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	36262	10.0000	11.2
9	Acrolein	56	1.510	1.515	(0.375)	55214	200.000	189
10	1,1,2trichlorotrifluoroethane	101	1.553	1.553	(0.385)	33695	10.0000	11.4
11	1,1-Dichloroethene	96	1.563	1.563	(0.388)	26099	10.0000	11.8
12	Acetone	43	1.579	1.585	(0.392)	37588	50.0000	51.3
13	Iodomethane	142	1.643	1.649	(0.408)	17887	20.0000	16.7(M)
14	Carbon Disulfide	76	1.692	1.686	(0.420)	77424	10.0000	8.76
16	Methyl Acetate	43	1.734	1.734	(0.430)	15613	10.0000	9.52(M)
143	Acetonitrile	39	1.745	1.745	(0.433)	63495	10.0000	11.4(M)
15	allyl chloride	41	1.745	1.745	(0.433)	74355	20.0000	22.1(M)
17	Methylene Chloride	84	1.820	1.820	(0.452)	27759	10.0000	9.88
18	tert-Butyl Alcohol	59	1.874	1.873	(0.465)	7980	20.0000	21.3(M)
19	Acrylonitrile	53	1.954	1.954	(0.485)	28233	40.0000	45.9
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	52326	10.0000	11.3
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.492)	22418	10.0000	10.2
22	n-Hexane	57	2.152	2.146	(0.534)	25990	10.0000	12.3

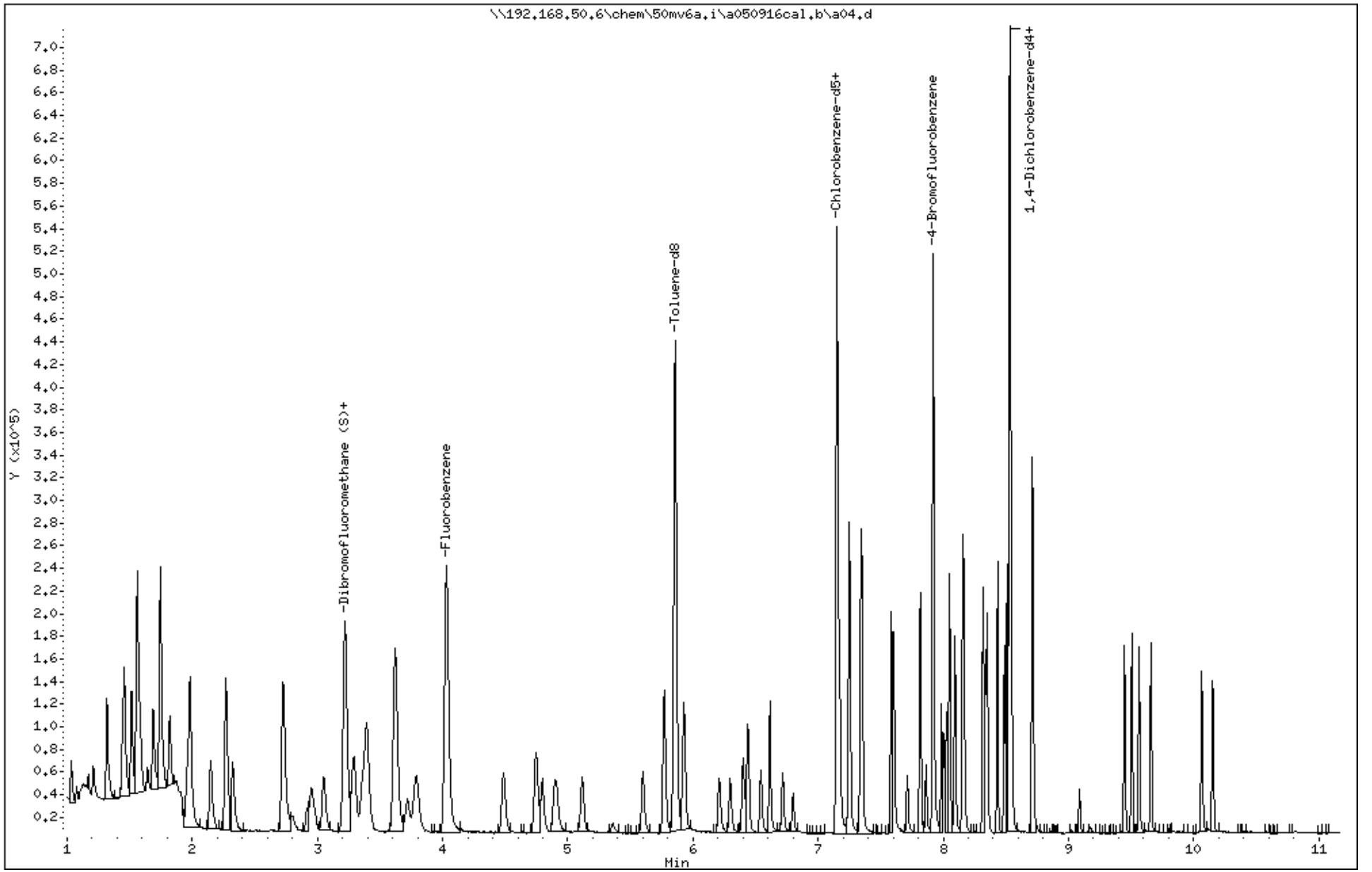
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.269	2.264	(0.563)	122612	40.0000	39.8
	23 1,1-Dichloroethane	63	2.275	2.275	(0.565)	39411	10.0000	10.5
	147 chloroprene	53	2.323	2.323	(0.577)	28617	10.0000	10.8
	28 2-Butanone	43	2.724	2.724	(0.676)	50000	50.0000	46.6
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	23749	10.0000	10.7
	27 2,2-Dichloropropane	77	2.729	2.730	(0.677)	36234	10.0000	10.7
	149 Propionitrile	54	2.783	2.783	(0.691)	3342	10.0000	12.8(Q)
	144 Methacrylonitrile	41	2.917	2.917	(0.724)	10541	10.0000	10.6(M)
	30 Bromochloromethane	49	2.954	2.949	(0.733)	15820	10.0000	11.0
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	7201	10.0000	9.94(M)
	32 Chloroform	83	3.050	3.056	(0.757)	43363	10.0000	12.0
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.800)	94400	50.0000	47.9
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.798)	39346	10.0000	10.7
	35 Cyclohexane	56	3.291	3.291	(0.817)	32104	10.0000	11.0
	150 n-Butyl chloride	56	3.355	3.355	(0.833)	35523	10.0000	10.8
	36 Carbon Tetrachloride	117	3.387	3.393	(0.841)	34635	10.0000	11.2
	37 1,1-Dichloropropene	75	3.393	3.393	(0.842)	28002	10.0000	11.3
	39 Benzene	78	3.628	3.628	(0.900)	72766	10.0000	11.0
	40 1,2-Dichloroethane	62	3.719	3.714	(0.923)	26478	10.0000	10.7
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.940)	65435	10.0000	10.9
	38 Isobutyl alcohol	43	3.789	3.783	(0.940)	12753	10.0000	10.7(Q)
*	41 Fluorobenzene	96	4.029	4.035	(1.000)	273525	50.0000	
	42 Trichloroethene	95	4.490	4.490	(1.114)	20704	10.0000	10.5
	43 Methylcyclohexane	55	4.741	4.741	(1.177)	22992	10.0000	11.2
	44 1,2-Dichloropropane	63	4.794	4.794	(1.190)	18577	10.0000	10.8
	45 Dibromomethane	93	4.891	4.896	(1.214)	14003	10.0000	10.4
	142 1,4-Dioxane	88	4.907	4.907	(1.218)	4941	200.000	216
	46 Methyl methacrylate	69	4.912	4.912	(1.219)	9472	10.0000	8.87(M)
	47 Bromodichloromethane	83	5.115	5.115	(1.269)	32009	10.0000	12.3
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	28961	10.0000	10.4
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	82411	50.0000	54.2
$	51 Toluene-d8	98	5.859	5.859	(0.819)	266209	50.0000	50.9
	52 Toluene	91	5.929	5.929	(0.829)	75570	10.0000	10.2
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	24948	10.0000	10.1
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	20862	10.0000	11.4(M)
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	13932	10.0000	10.5
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	22630	10.0000	11.4
	57 1,3-Dichloropropane	76	6.538	6.544	(0.914)	25202	10.0000	11.1
	58 2-Hexanone	43	6.613	6.613	(0.924)	64213	50.0000	58.7
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	20449	10.0000	10.7
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	16829	10.0000	11.1
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	201318	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	49043	10.0000	10.7
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	17752	10.0000	10.8
	64 Ethylbenzene	106	7.250	7.255	(1.013)	25823	10.0000	10.6
	65 m&p-Xylene	106	7.346	7.346	(1.027)	65433	20.0000	21.9
	67 o-Xylene	106	7.587	7.592	(1.061)	31984	10.0000	11.0
	68 Styrene	104	7.603	7.608	(1.063)	52741	10.0000	10.5
	69 Bromoform	173	7.715	7.710	(0.904)	15990	10.0000	10.4
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	82640	10.0000	10.6
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	97204	50.0000	50.0
	74 Bromobenzene	77	7.983	7.983	(1.116)	29020	10.0000	10.0
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	22725	10.0000	11.4
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	6466	10.0000	10.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	5889	10.0000	10.6
76	n-Propylbenzene	91	8.052	8.052	(0.944)	97837	10.0000	11.2
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	56914	10.0000	11.2
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	58656	10.0000	10.4
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	20391	10.0000	10.7
80	tert-Butylbenzene	119	8.315	8.315	(0.974)	68043	10.0000	10.9(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	58988	10.0000	10.3
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	86868	10.0000	11.4
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	38468	10.0000	10.8
84	p-Isopropyltoluene	119	8.512	8.513	(0.997)	68428	10.0000	11.0
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	107388	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	39274	10.0000	10.5
87	n-Butylbenzene	91	8.710	8.710	(1.021)	64688	10.0000	10.3
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	36524	10.0000	10.8
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	4715	10.0000	11.2
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	26389	10.0000	10.3
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	16360	10.0000	10.9
92	Naphthalene	128	9.566	9.566	(1.121)	69351	10.0000	9.36
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	26186	10.0000	10.4
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	40294	10.0000	10.1
148	1-Methylnaphthalene	141	10.150	10.155	(1.189)	35918	10.0000	10.4

QC Flag Legend

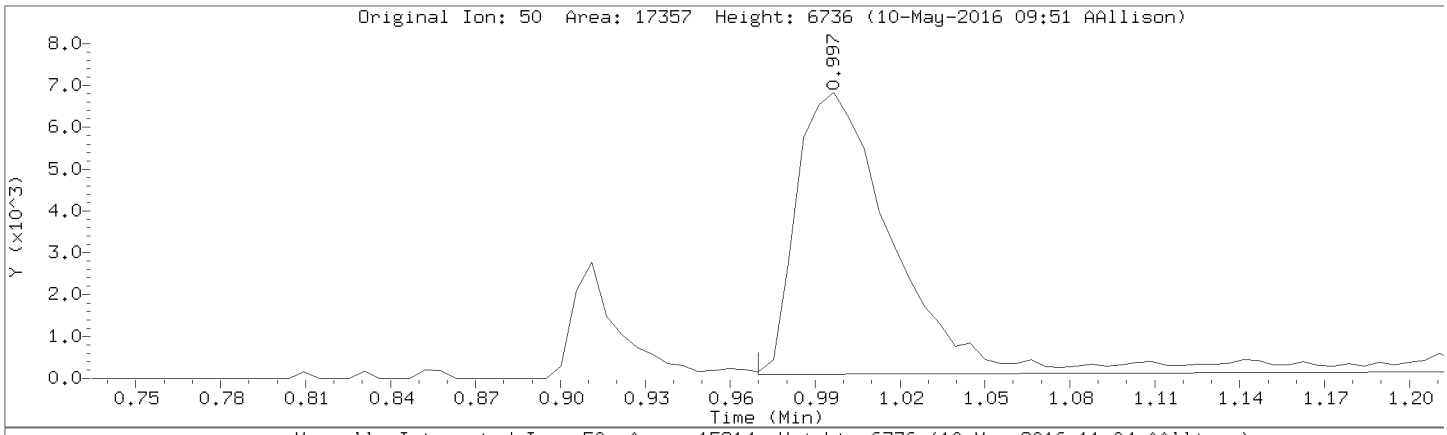
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

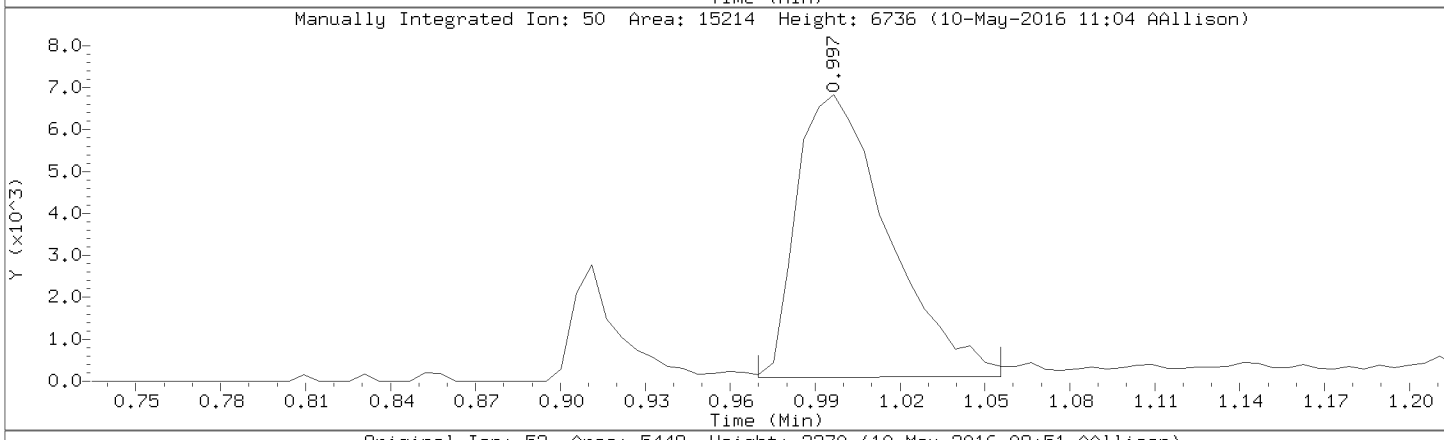
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a04.d
Date : 09-MAY-2016 21:30
Client ID: 8260-CAL4
Instrument: 50mv6a.i
Sample Info: 8260-CAL4,121032:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

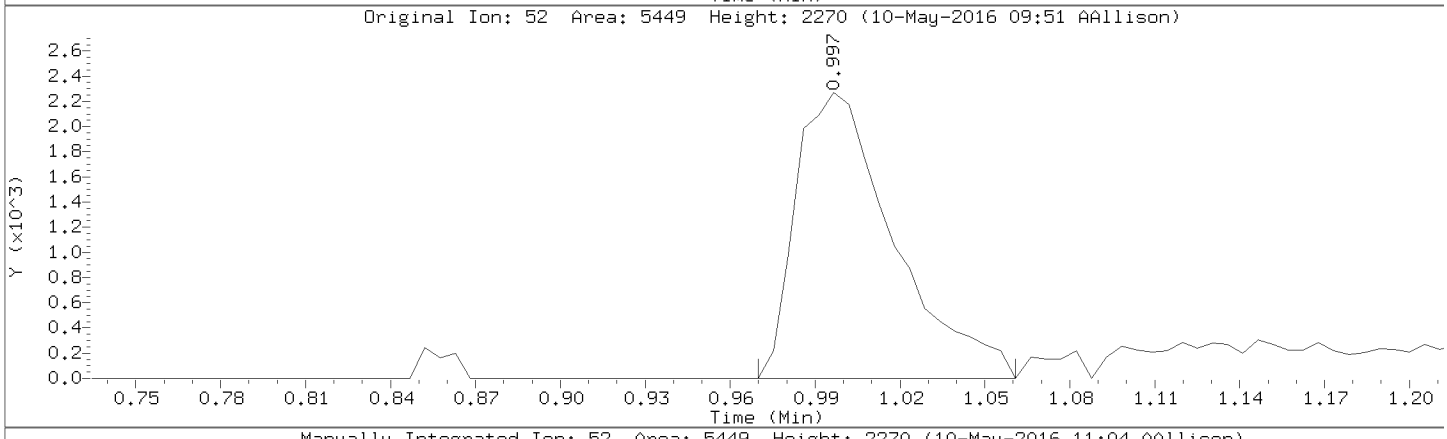


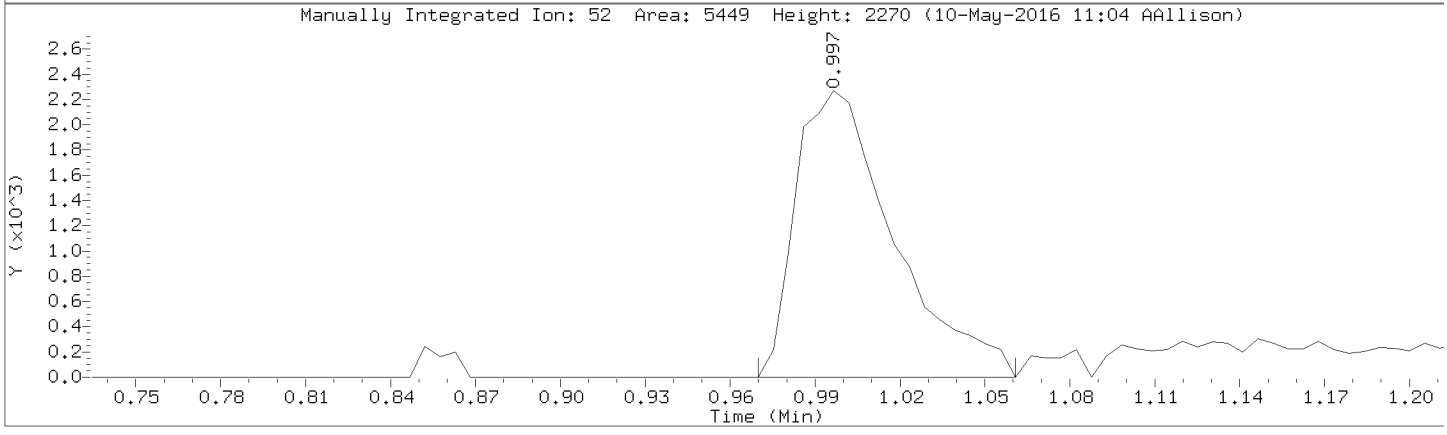
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Chloromethane Review Code: GT
CAS Number: 74-87-3



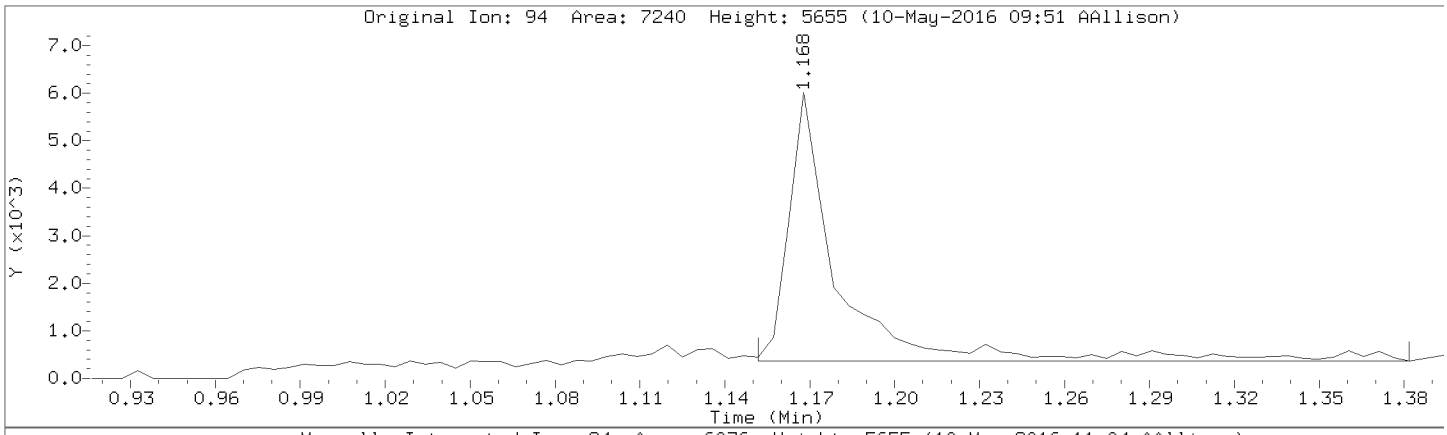


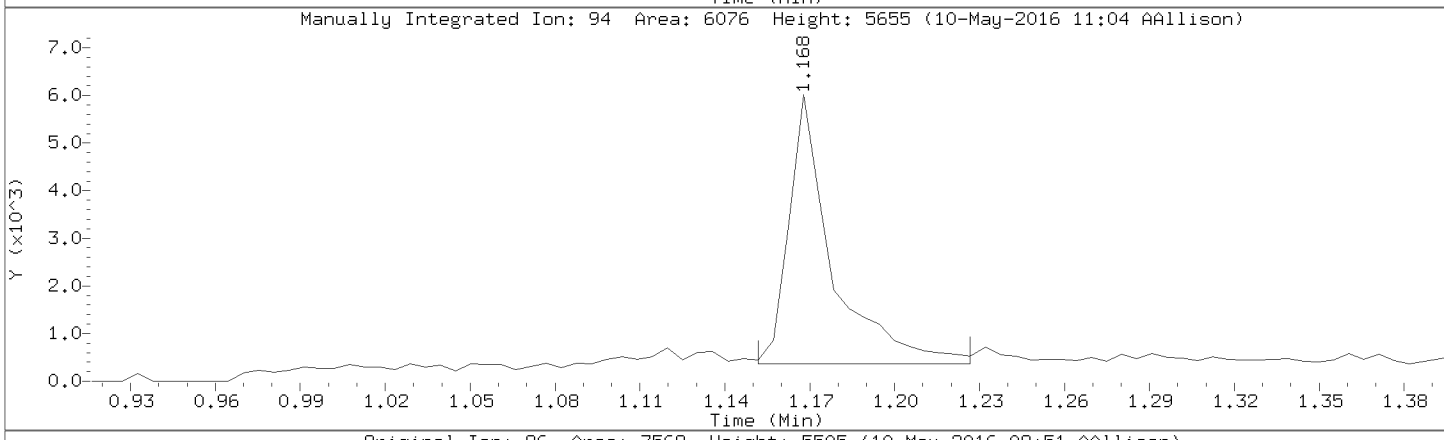


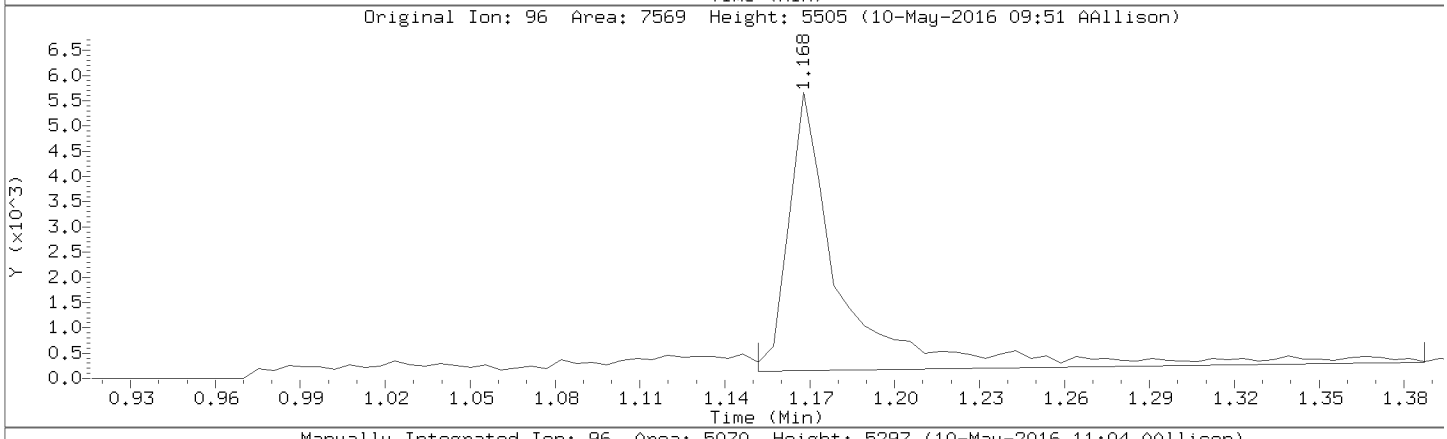


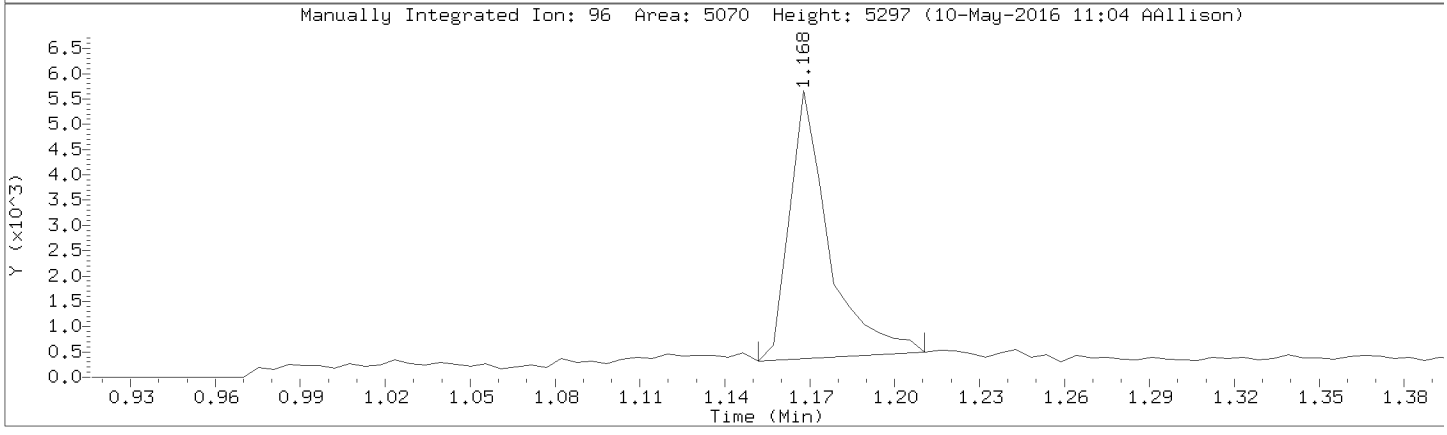
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



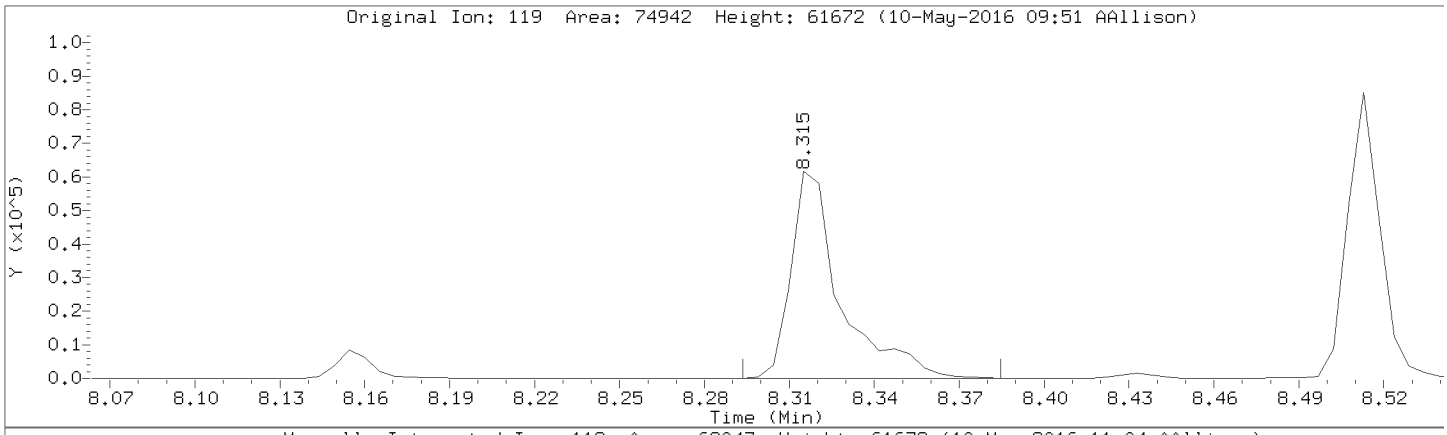


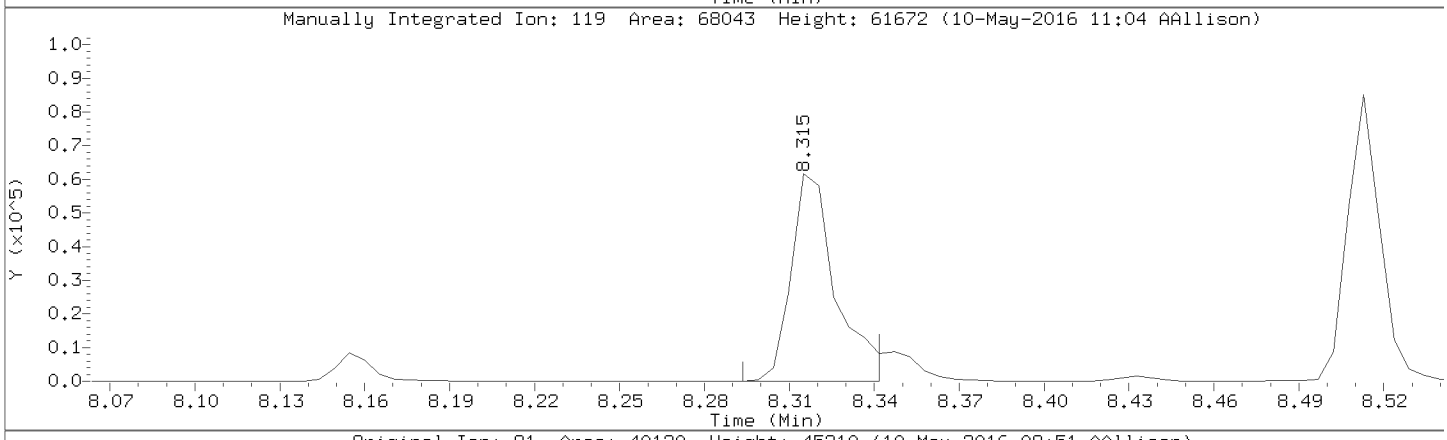


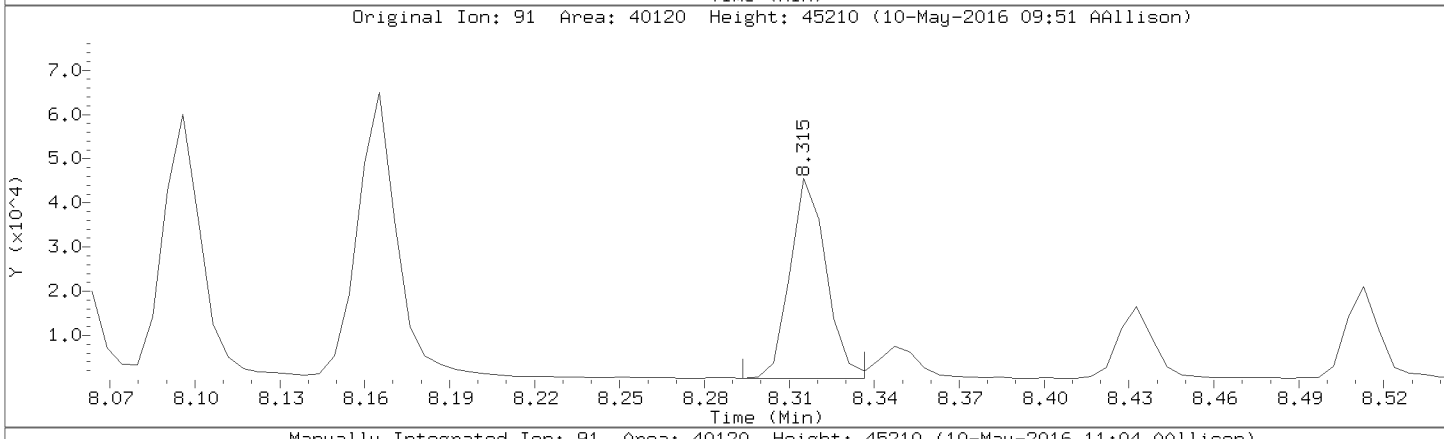


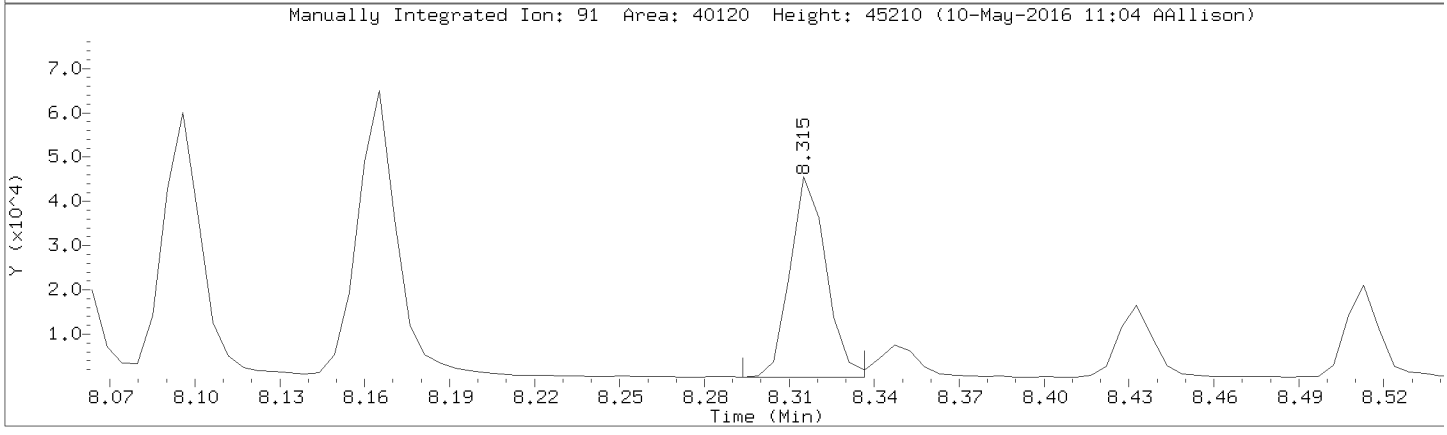
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

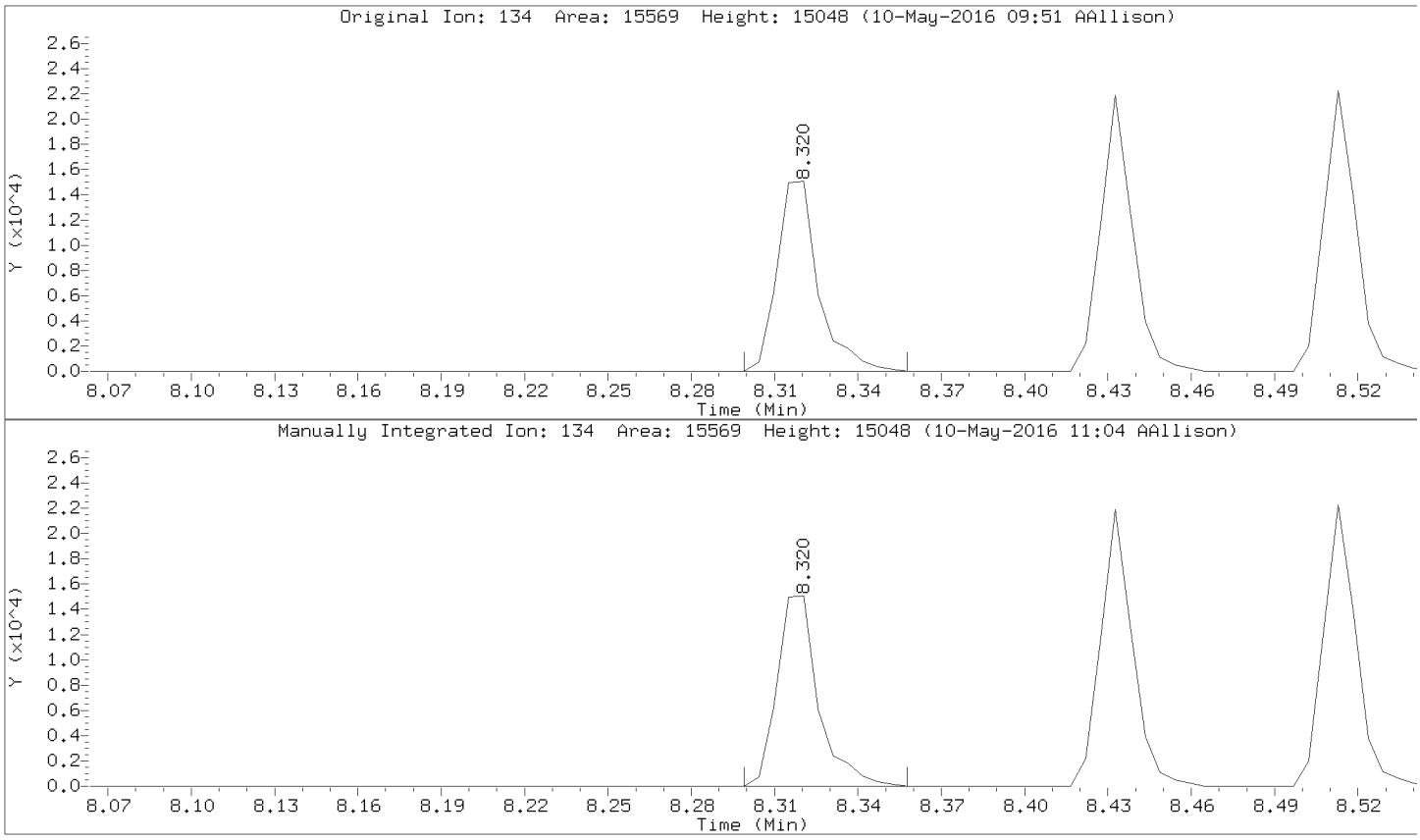






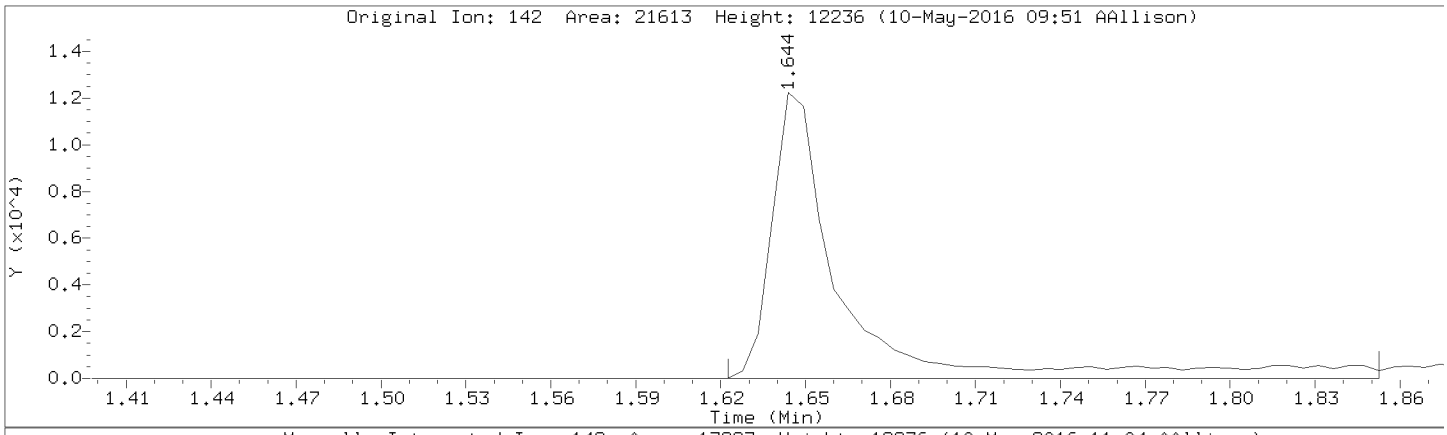


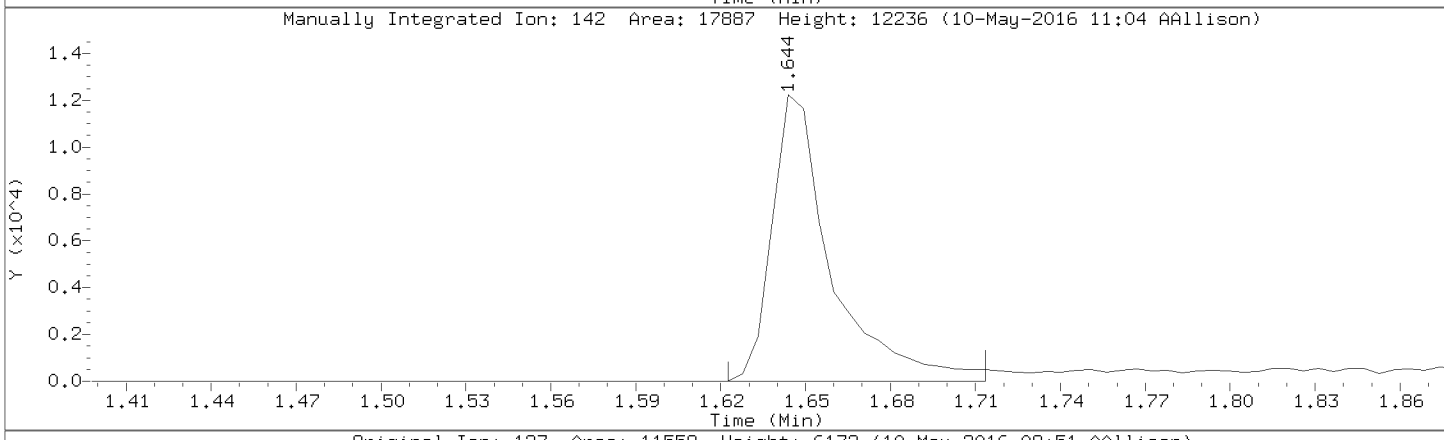
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

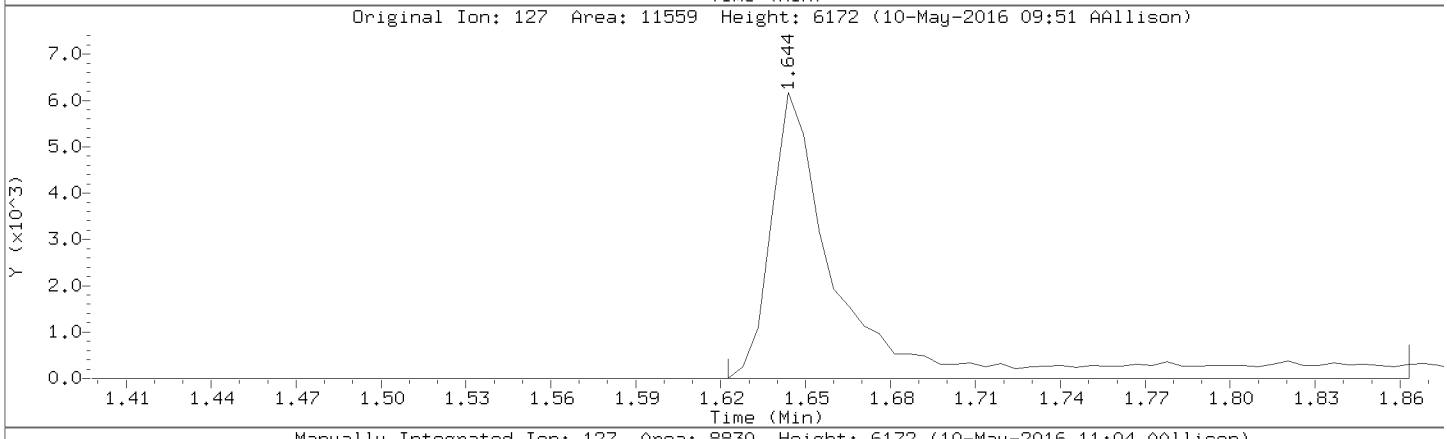


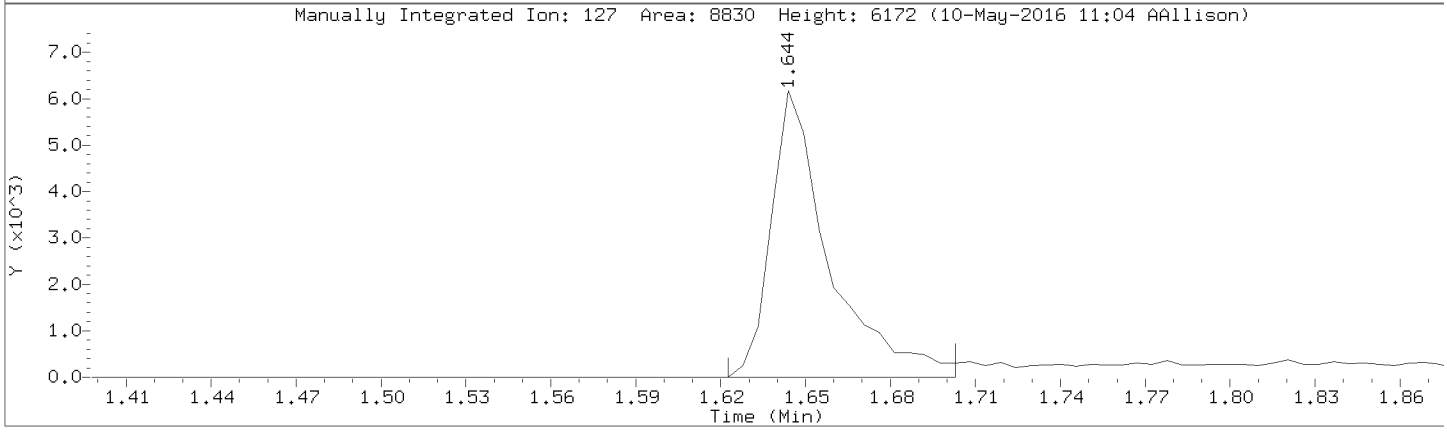
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Iodomethane Review Code: GT
CAS Number:



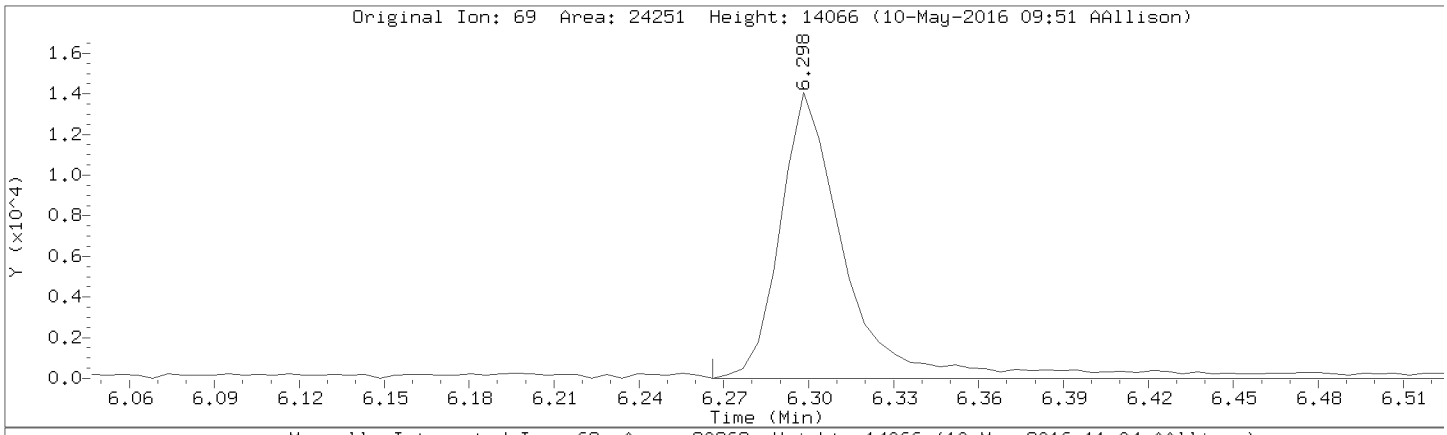


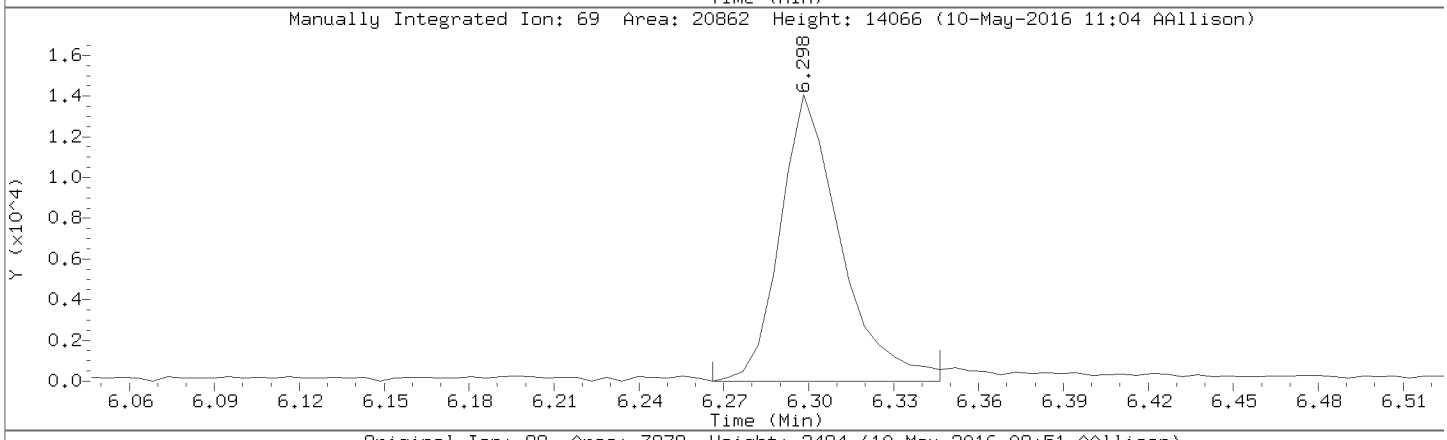


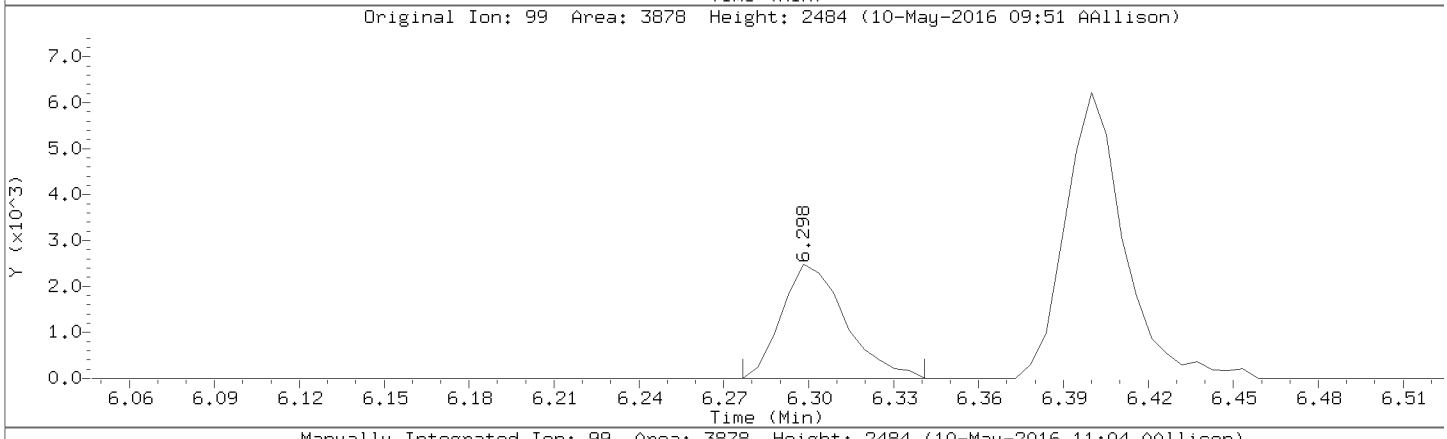


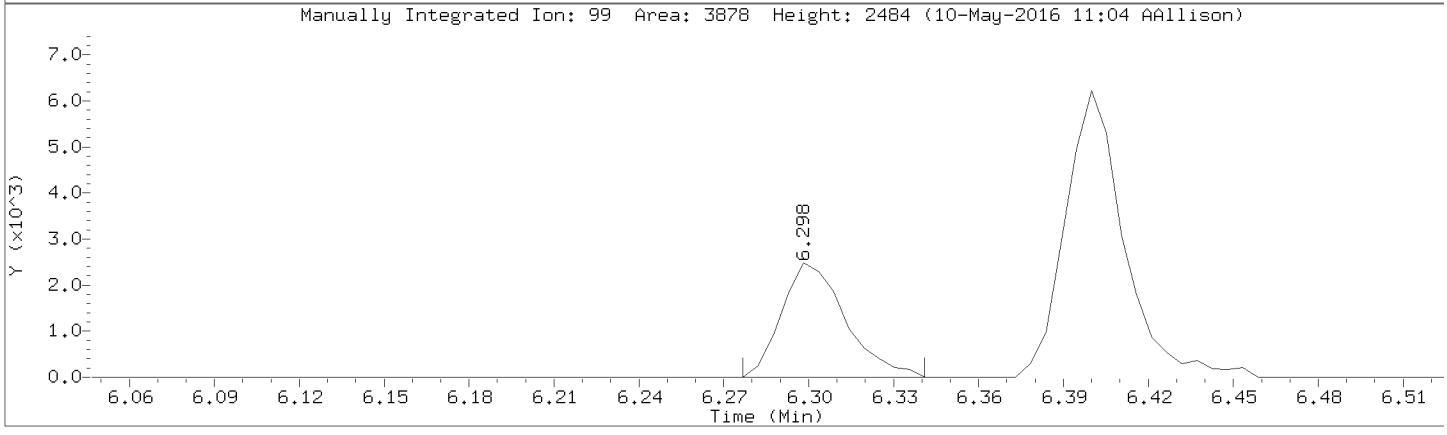
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Ethyl Methacrylate Review Code: GT
CAS Number:

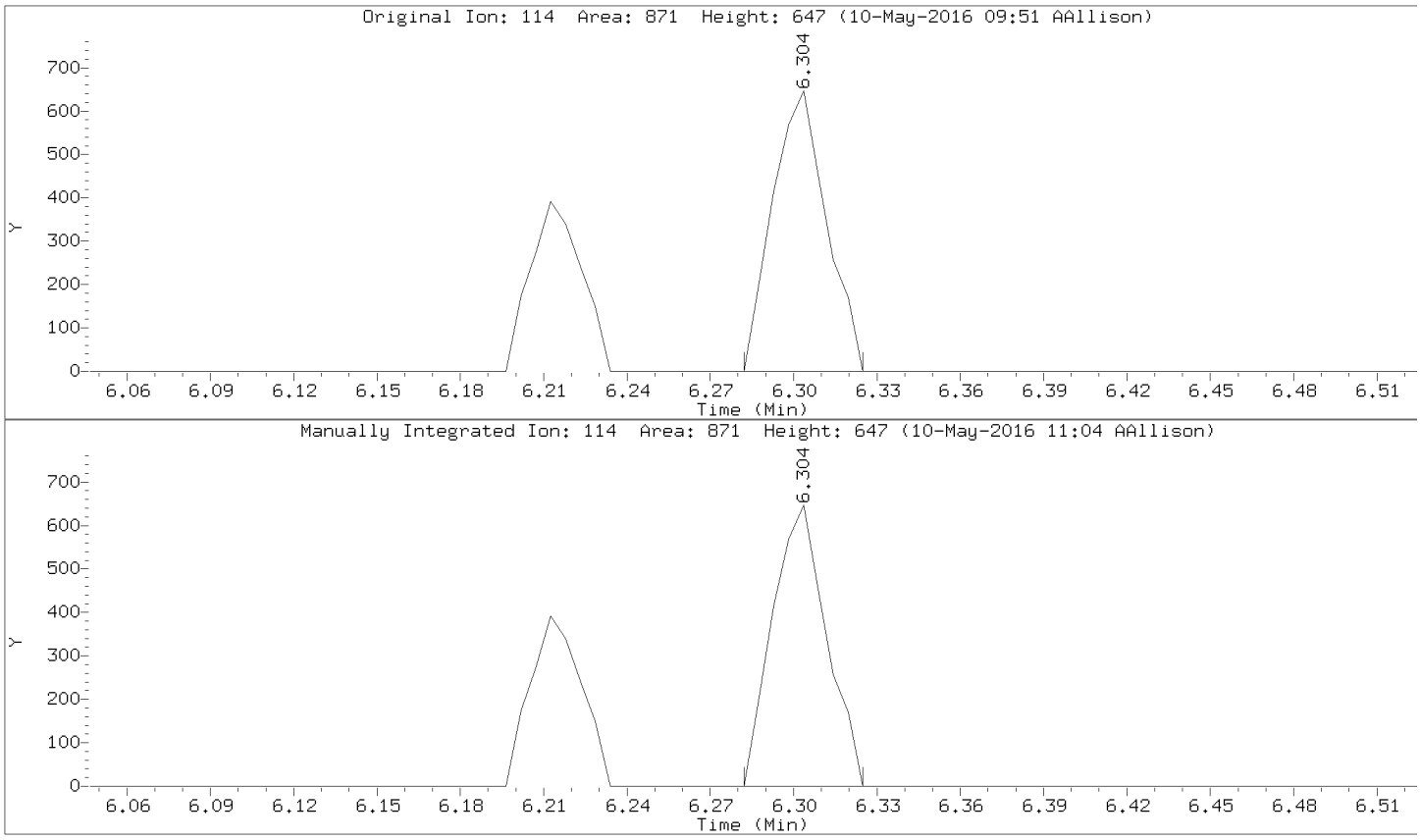






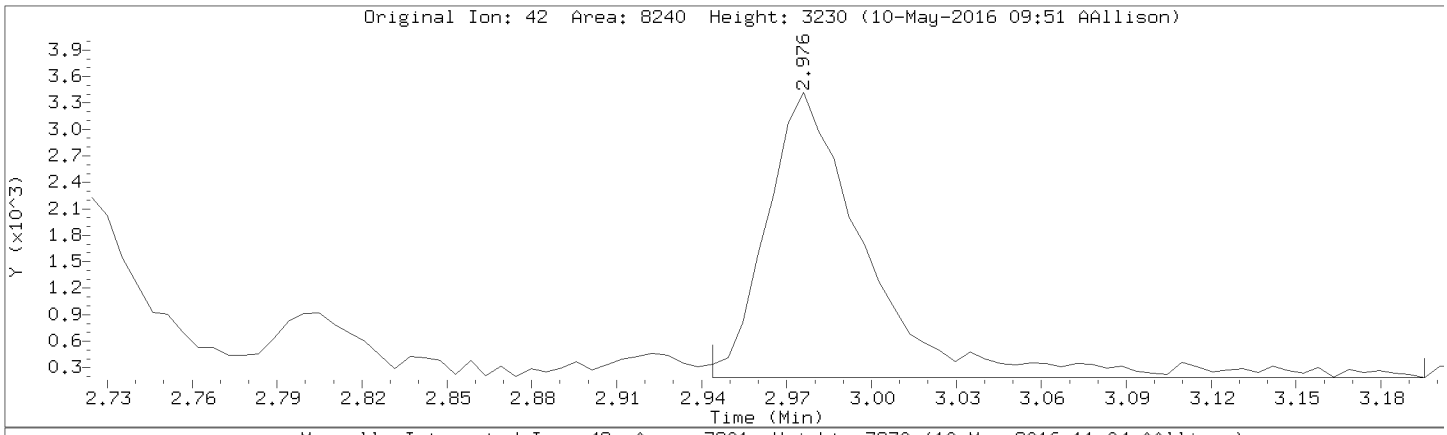


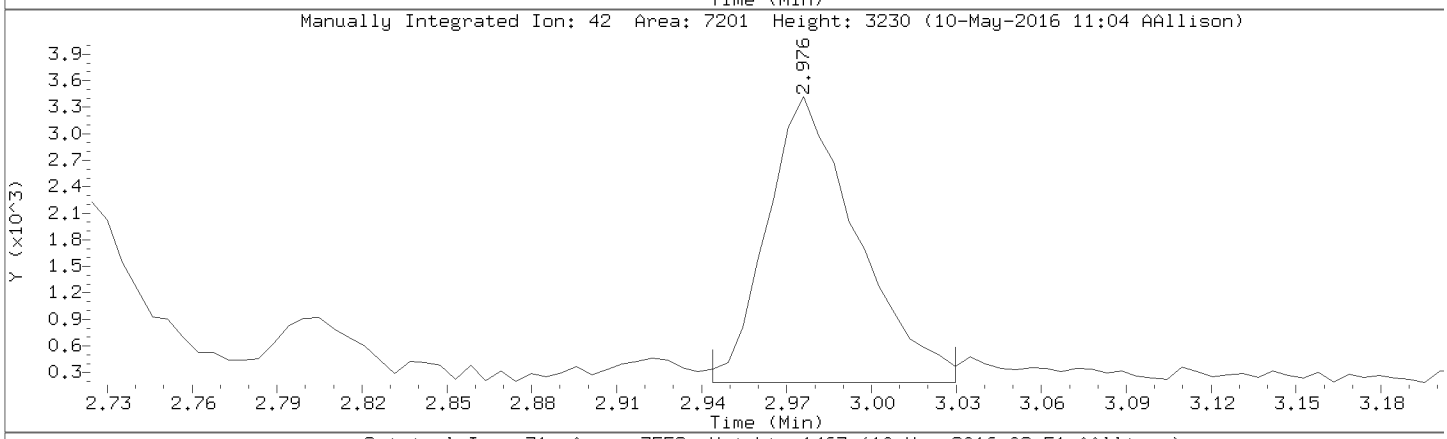
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

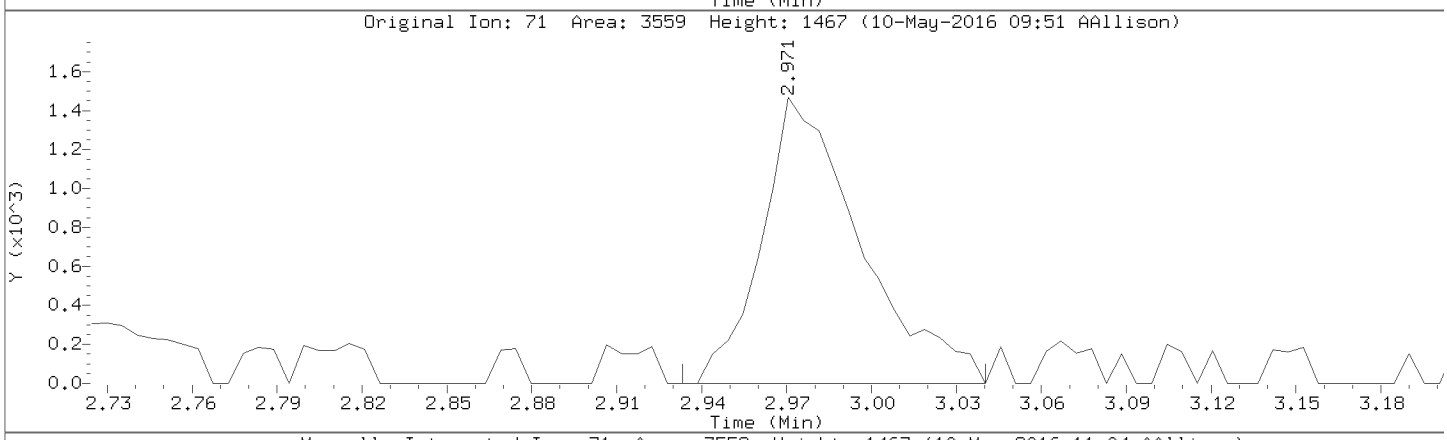


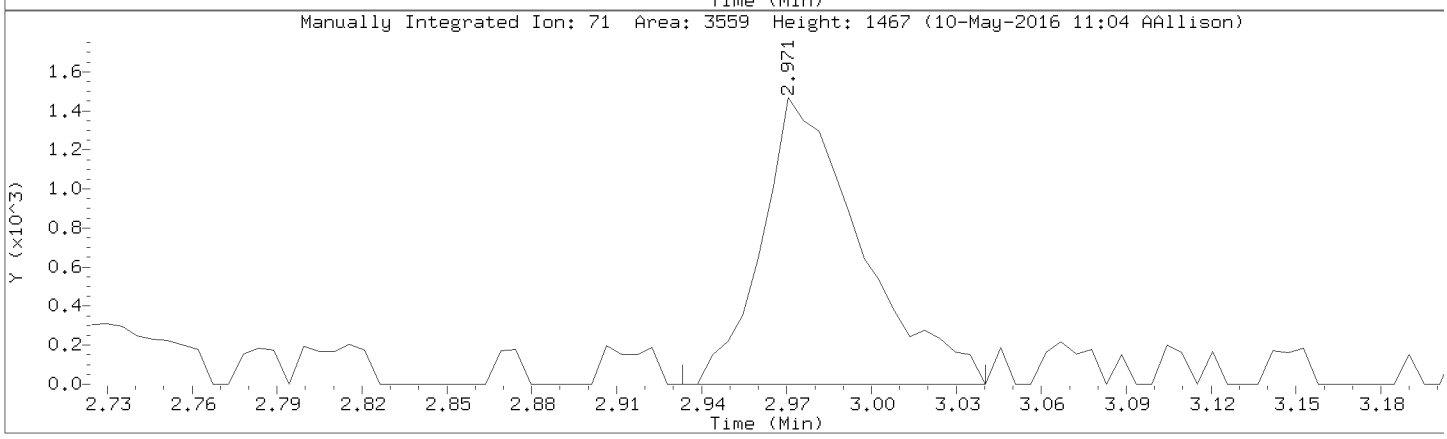
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Tetrahydrofuran Review Code: GT
CAS Number:

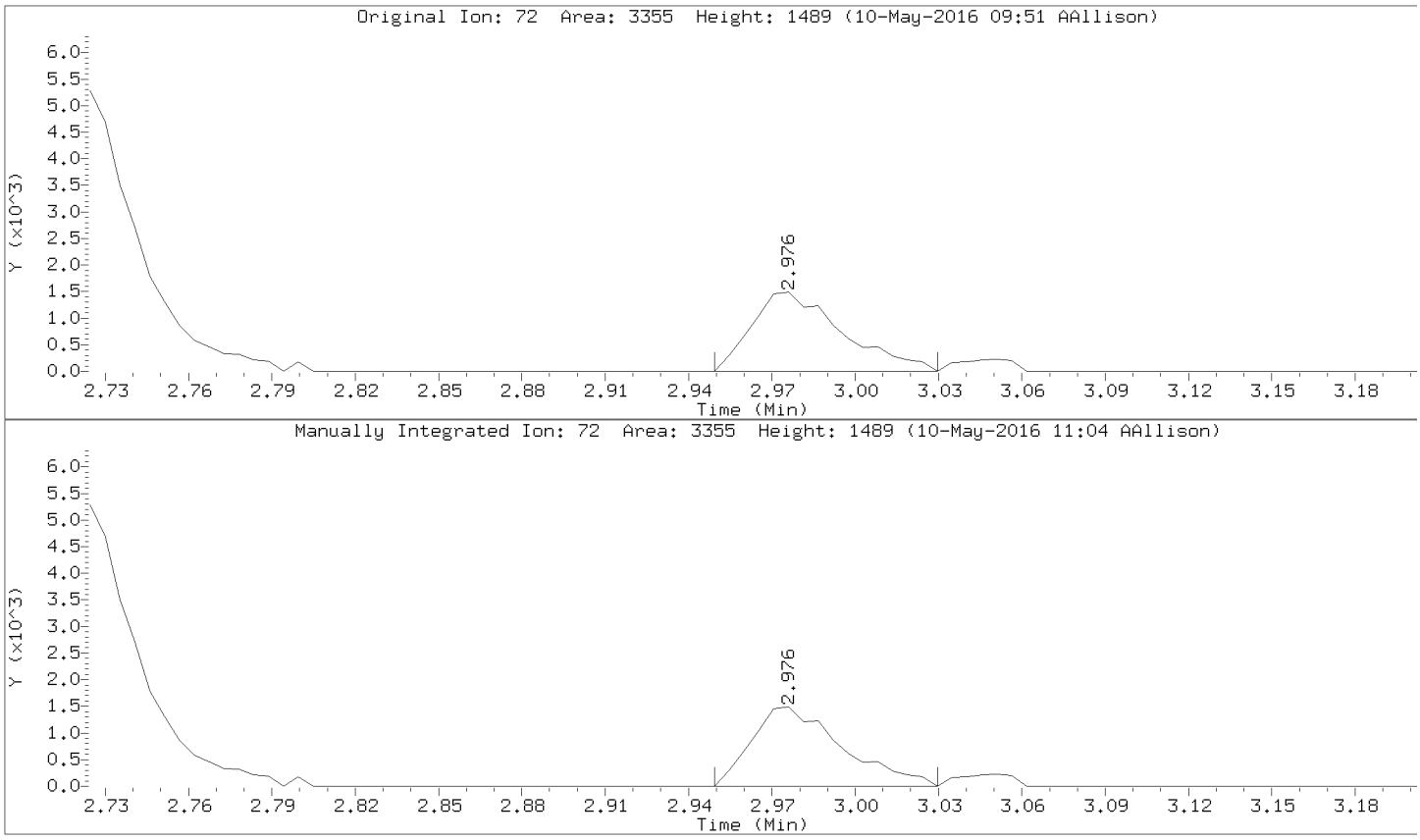






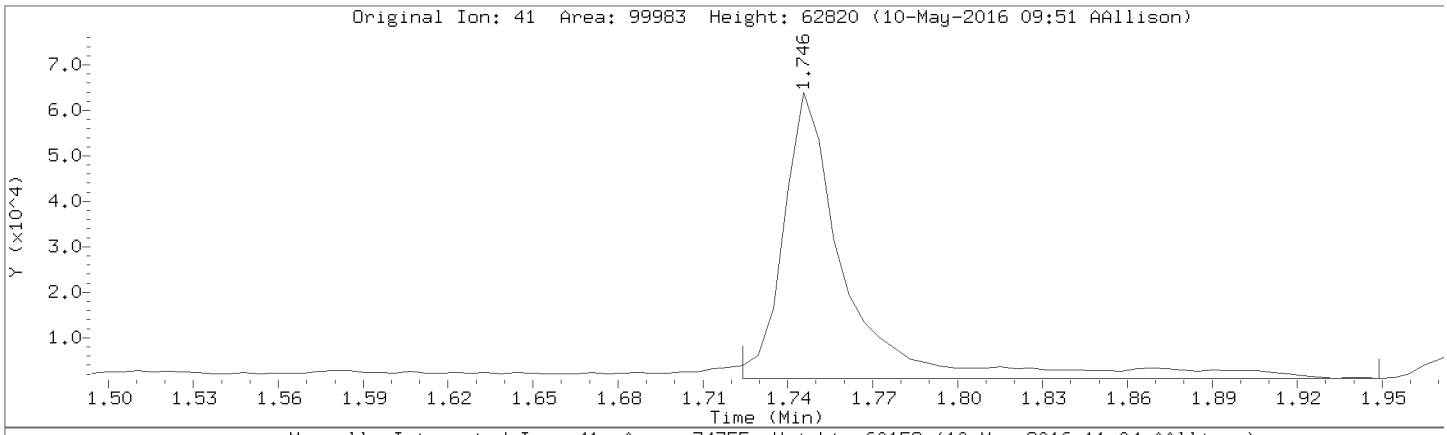


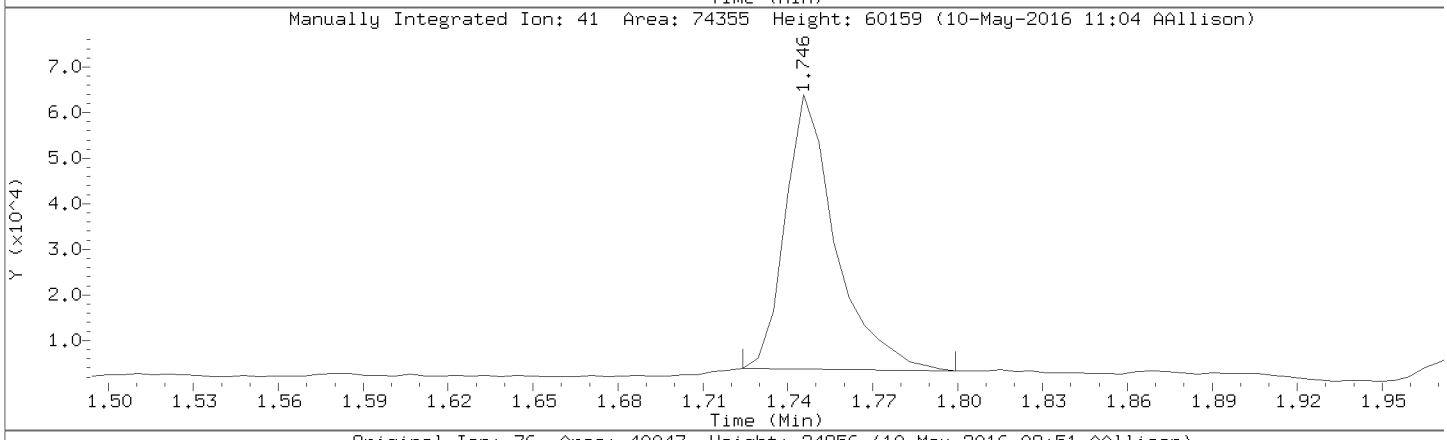
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

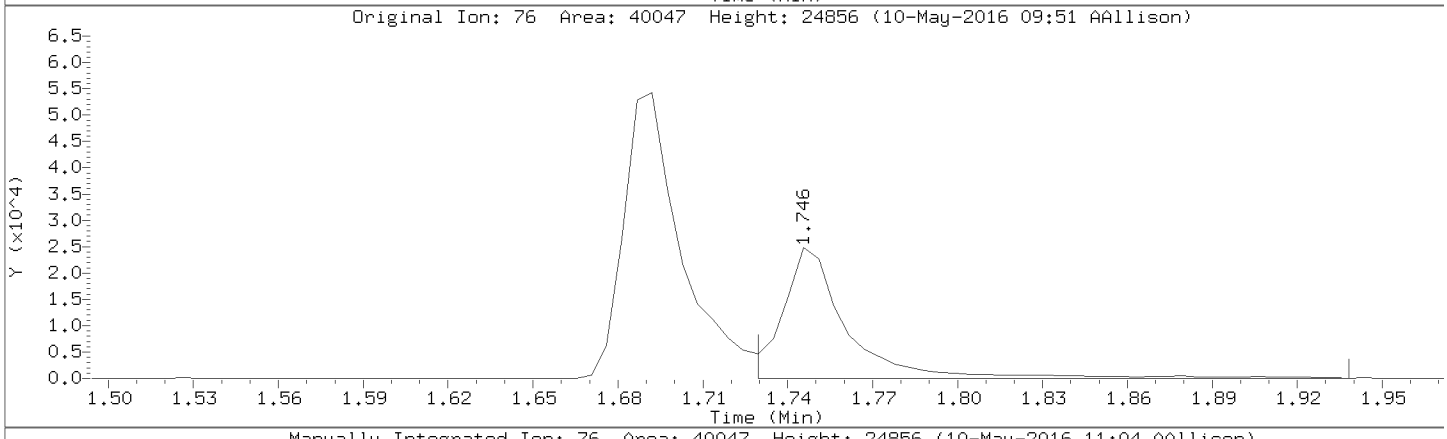


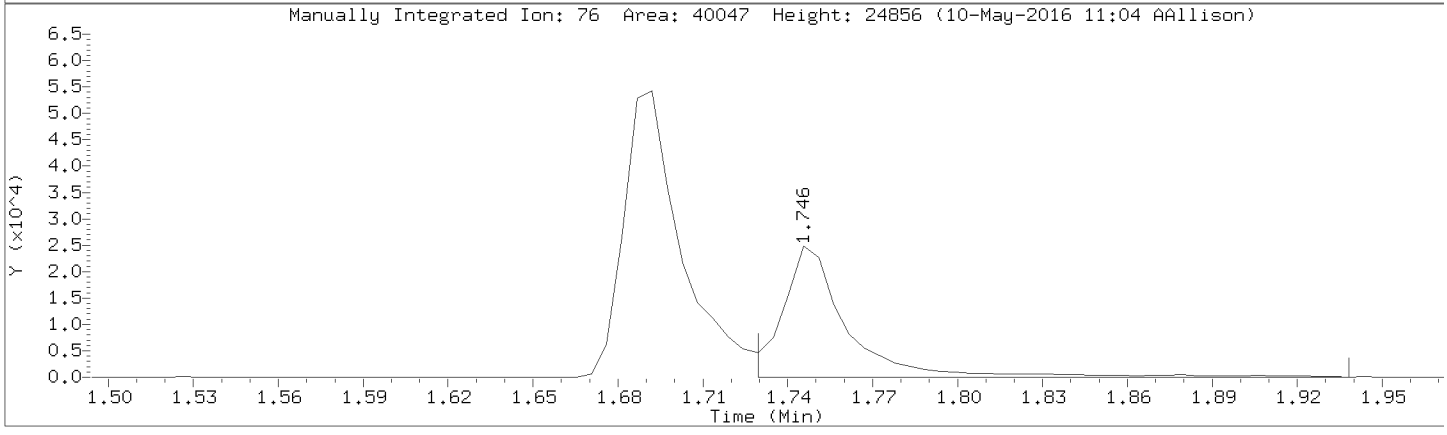
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: allyl chloride Review Code: GT
CAS Number: 107-05-1



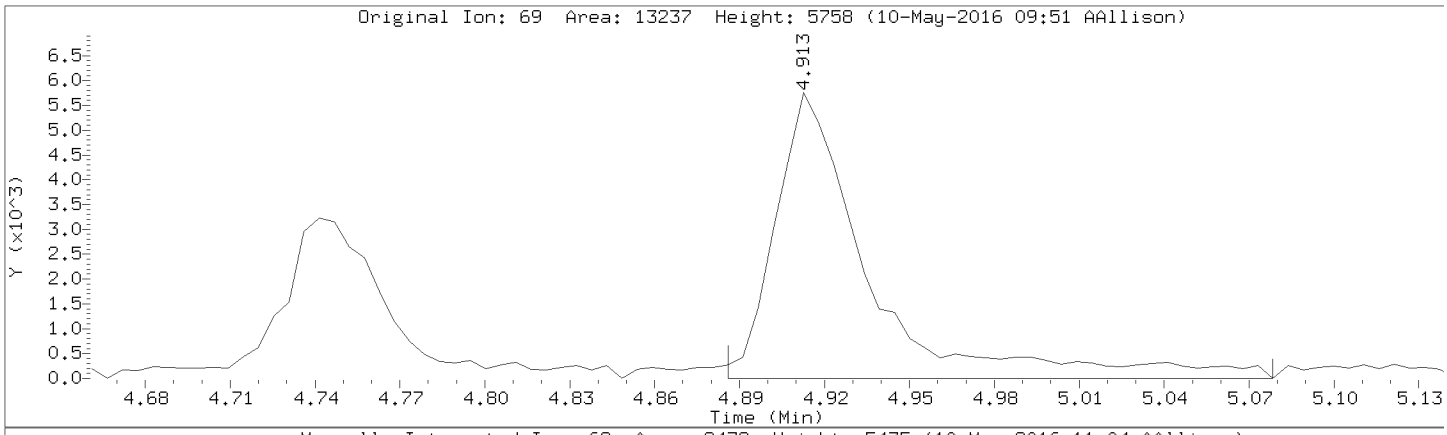


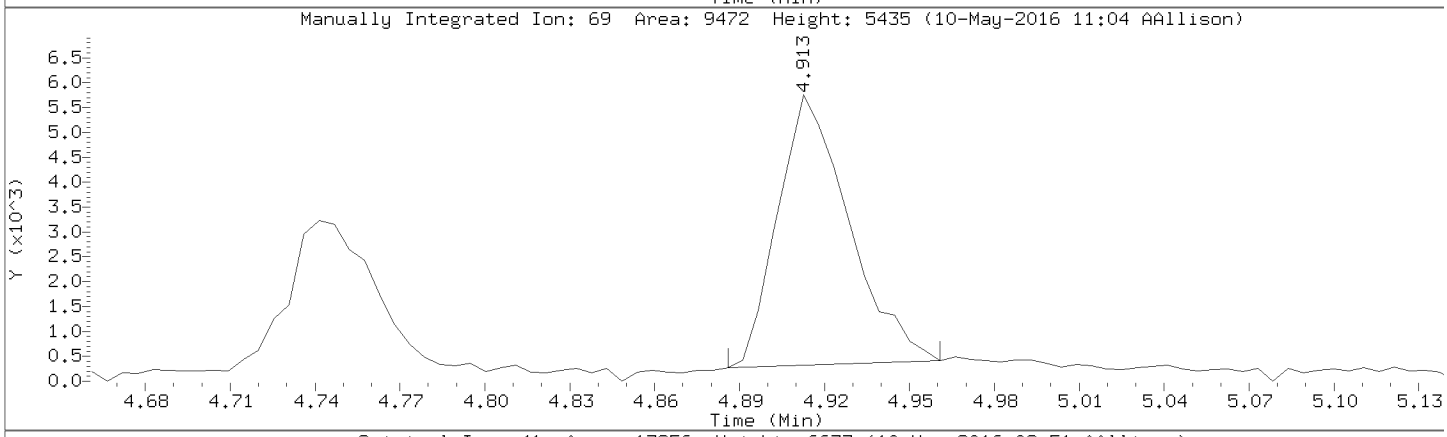


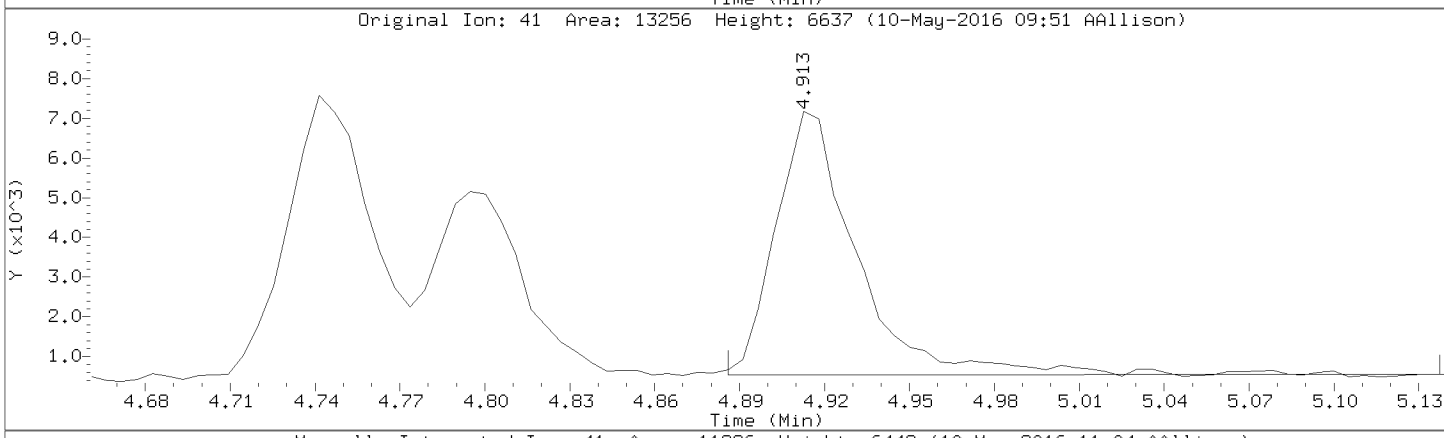


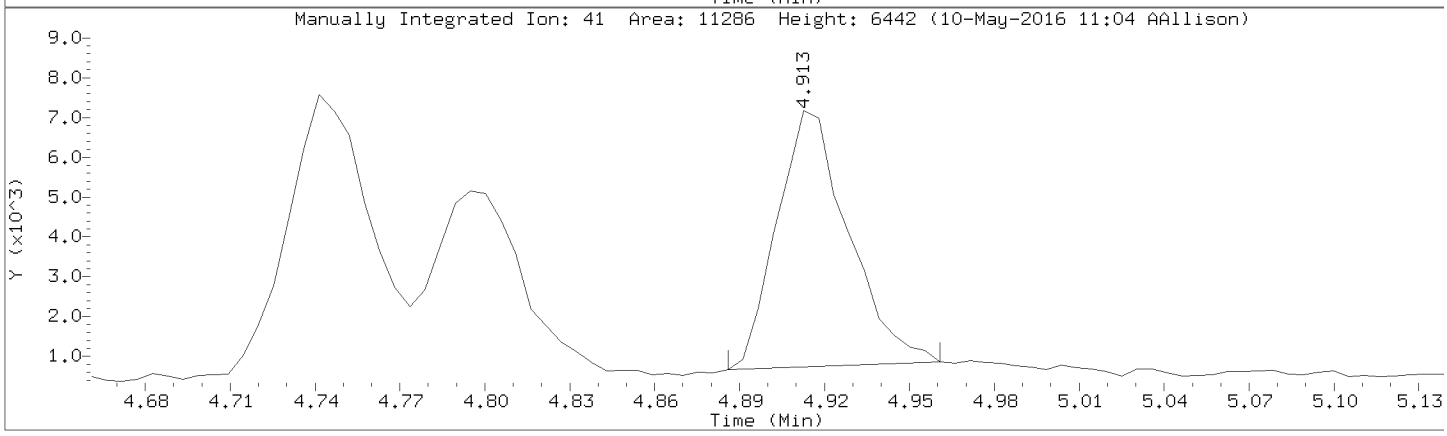
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Methyl methacrylate Review Code: GT
CAS Number: 80-62-6

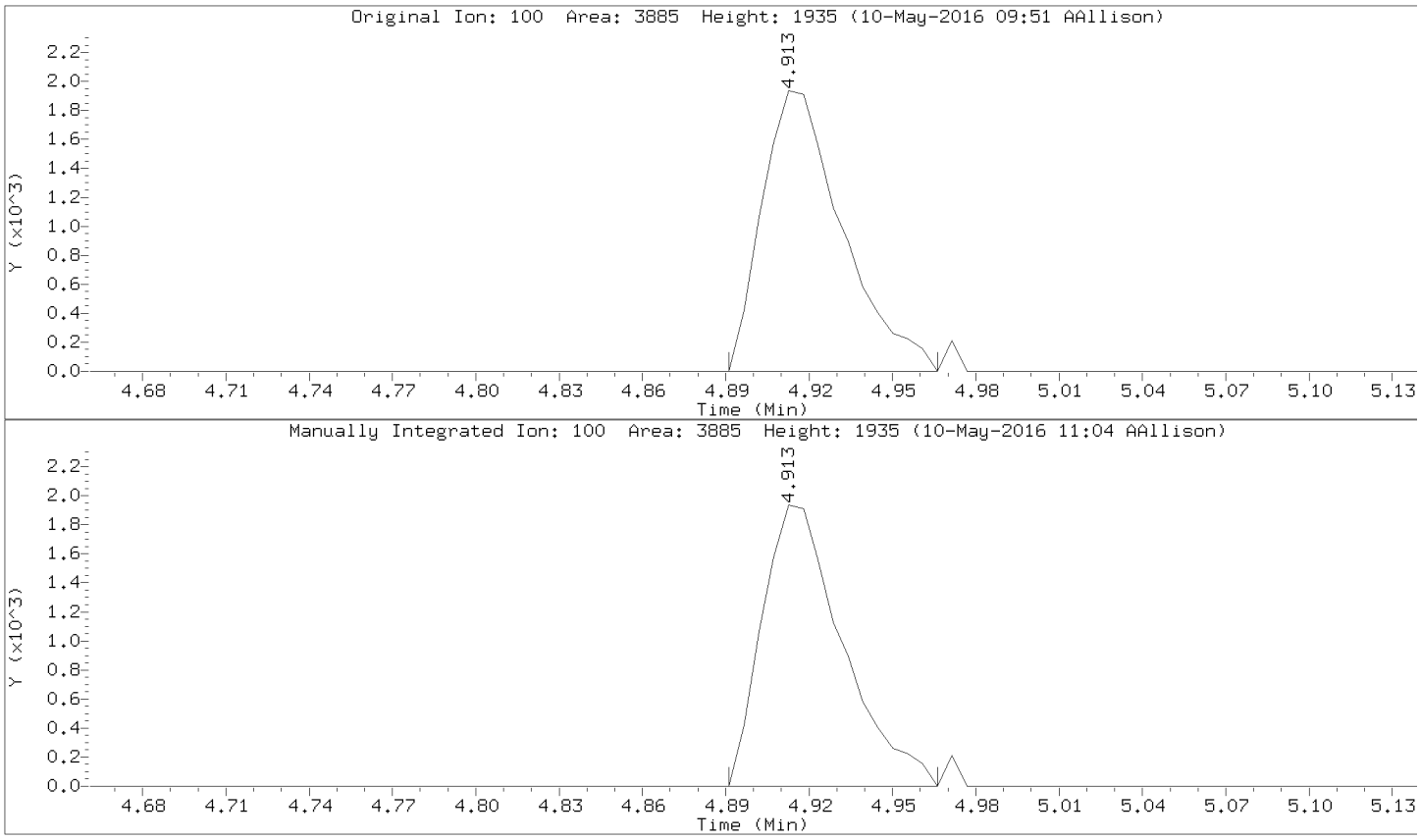






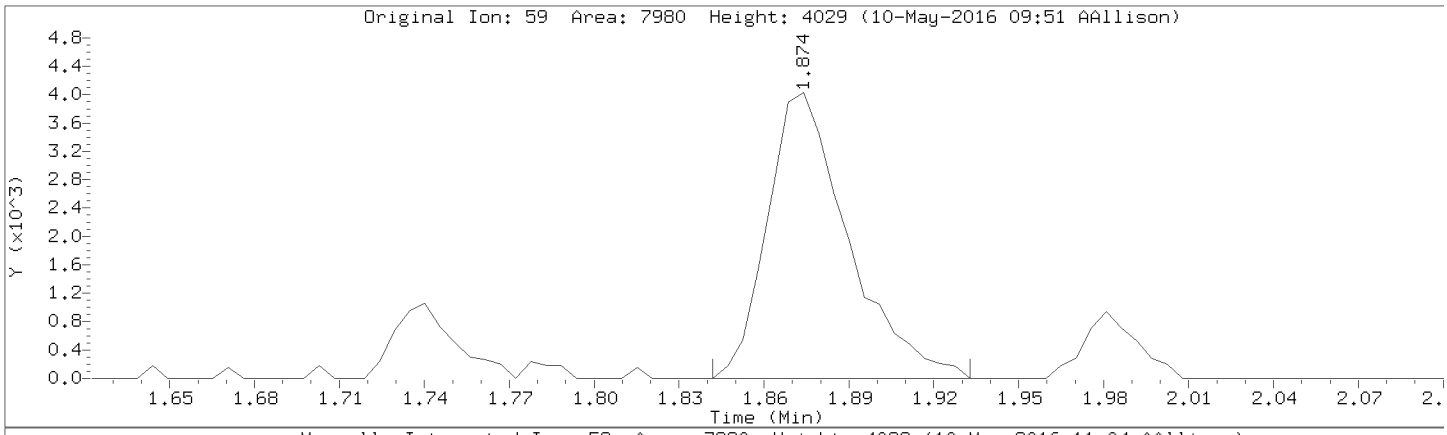


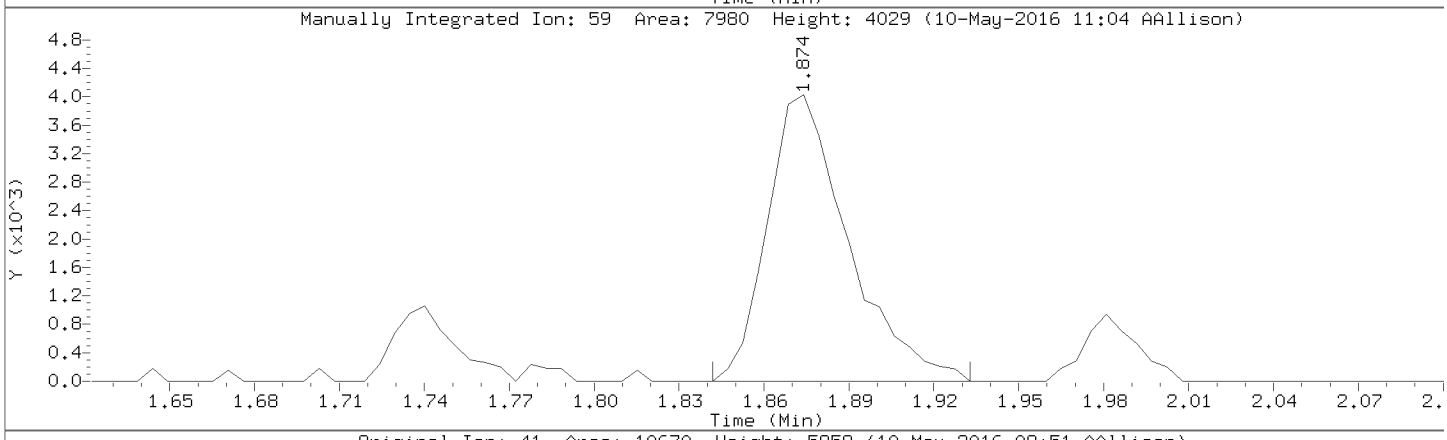
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

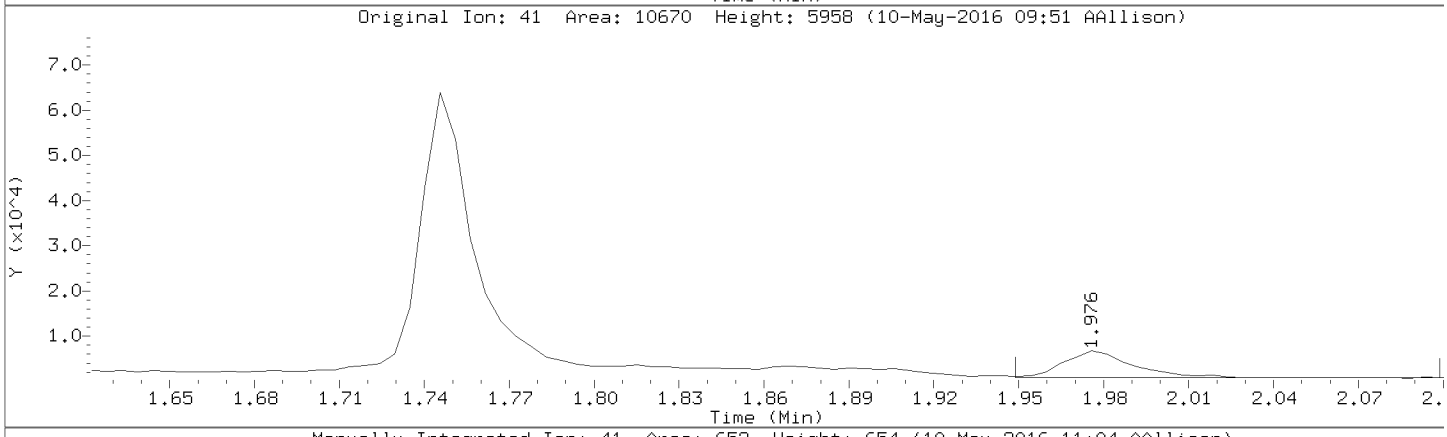


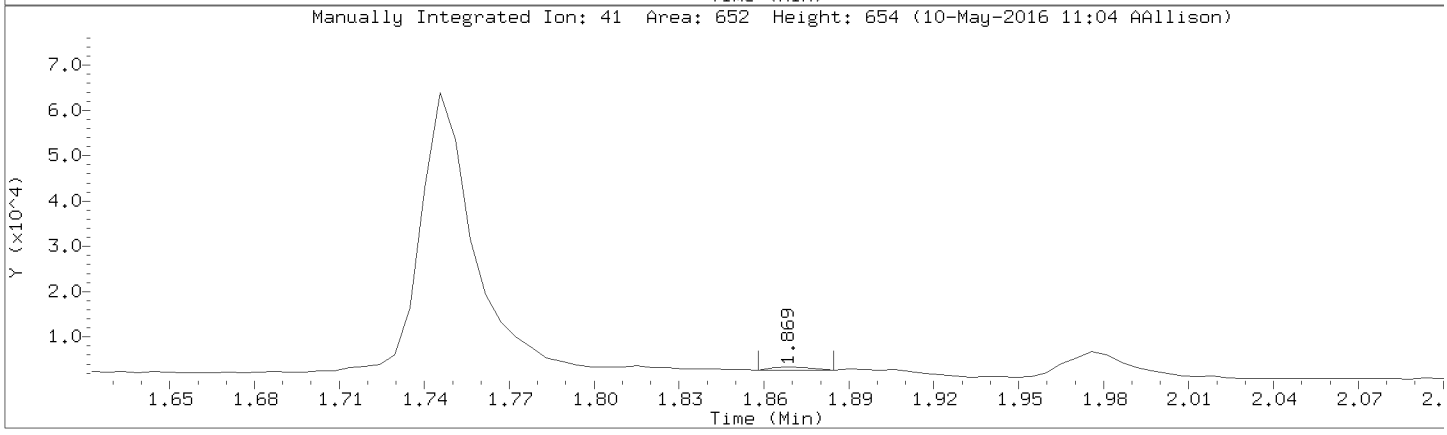
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



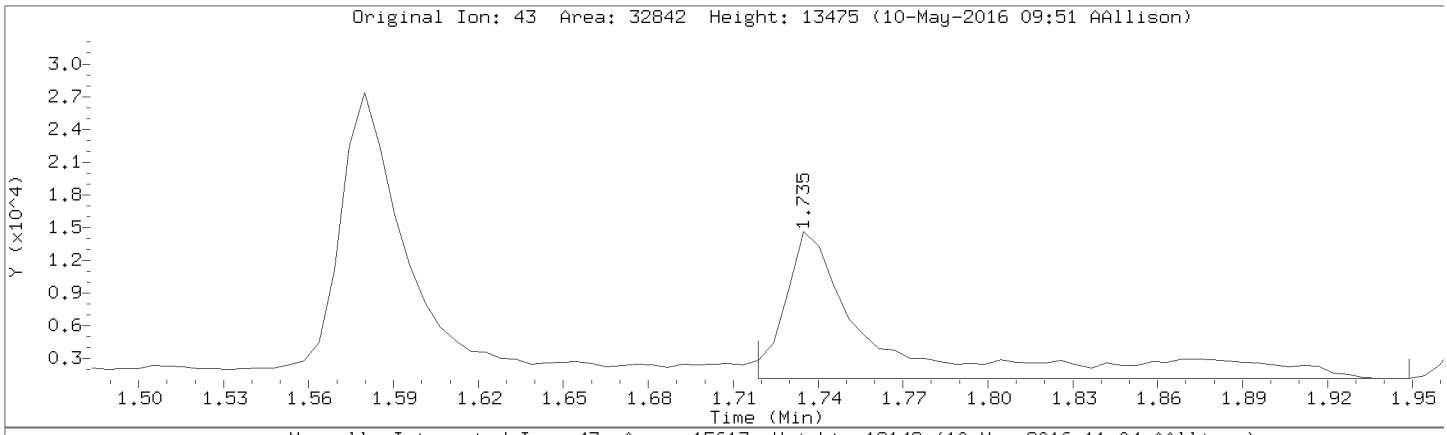


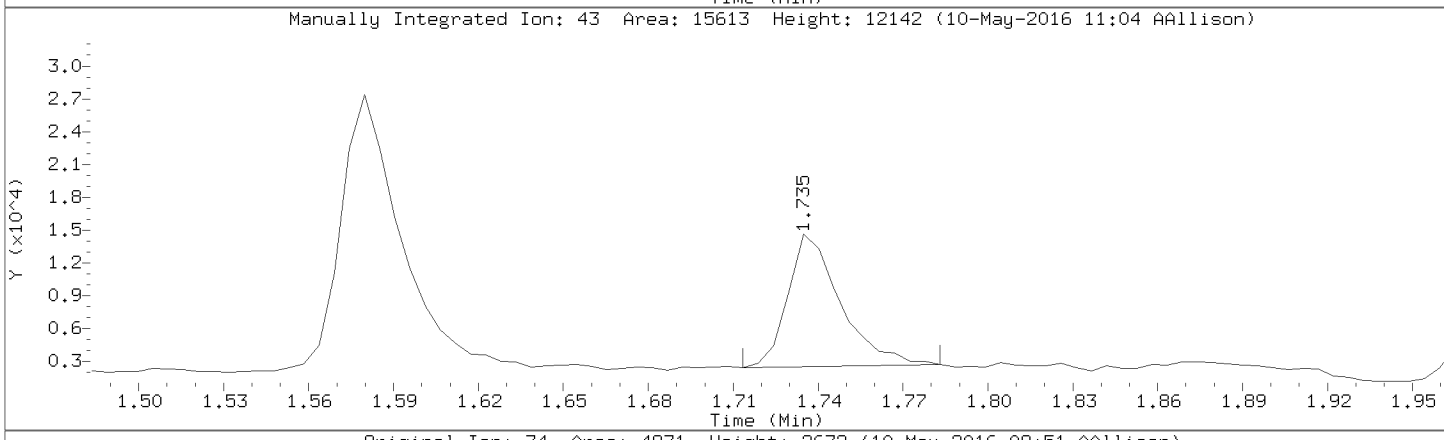


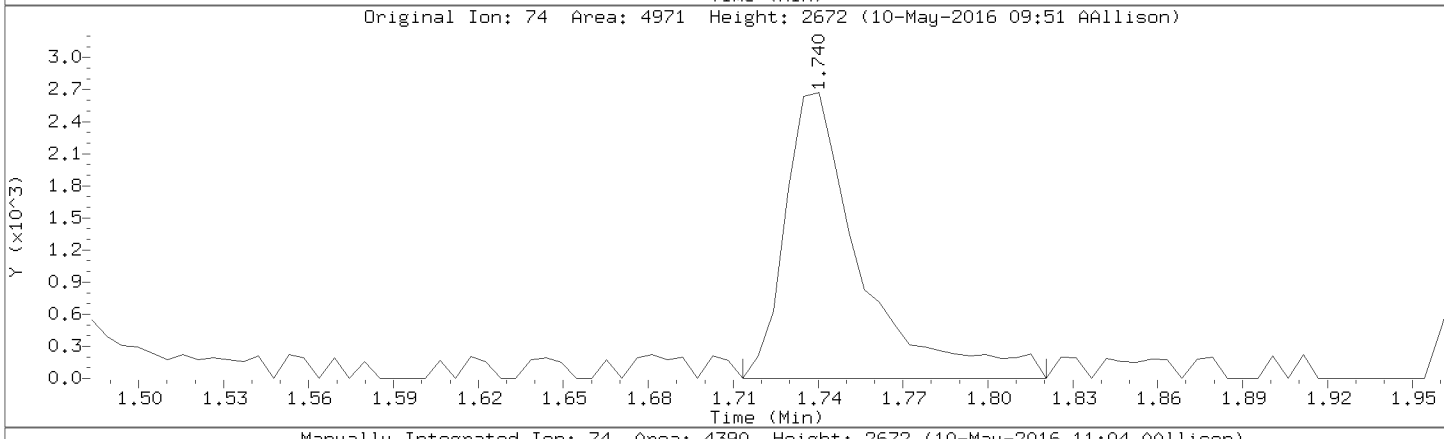


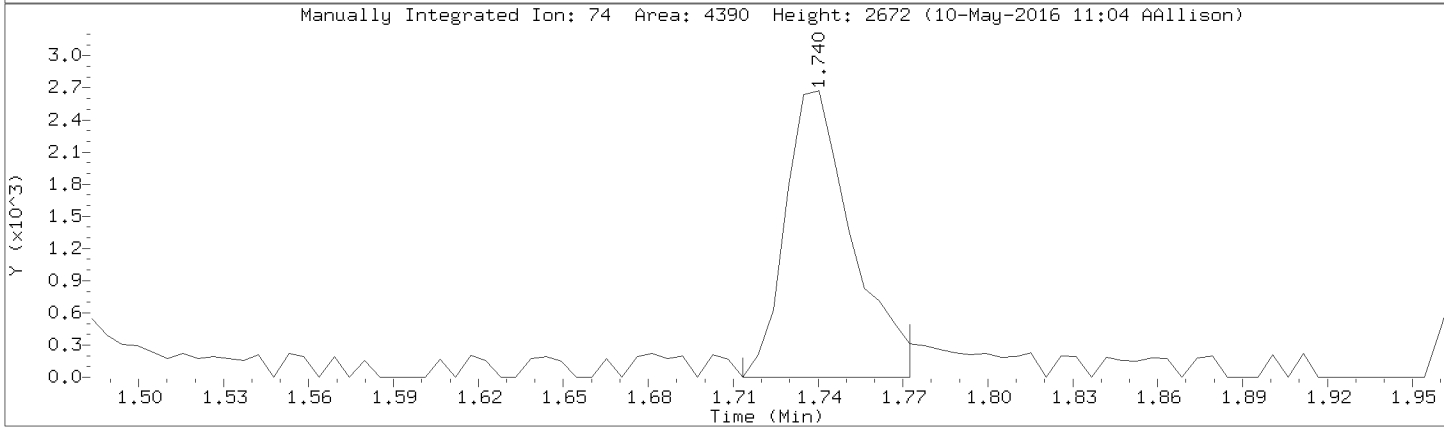
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9



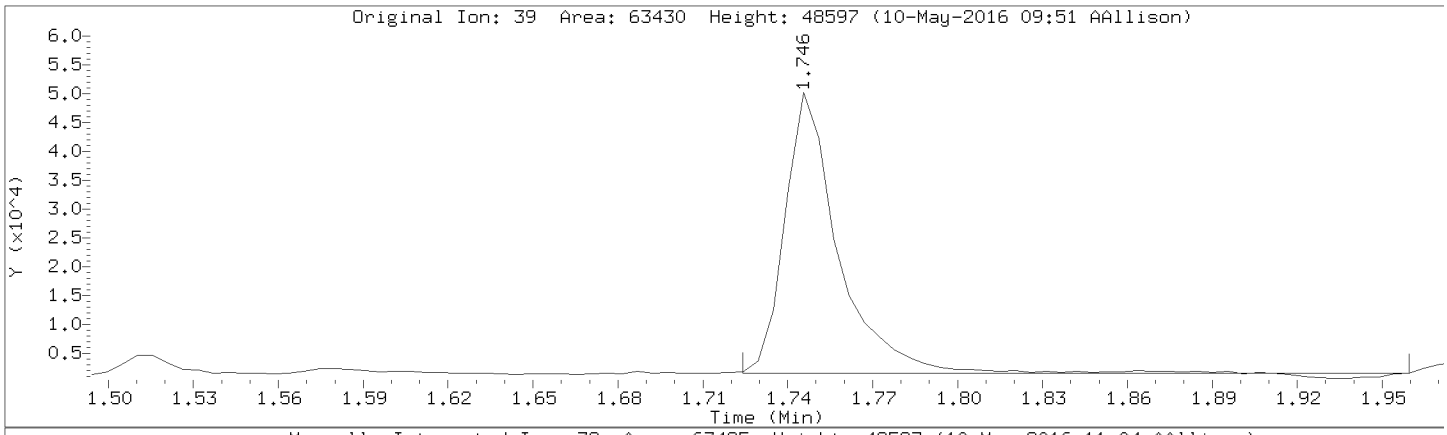


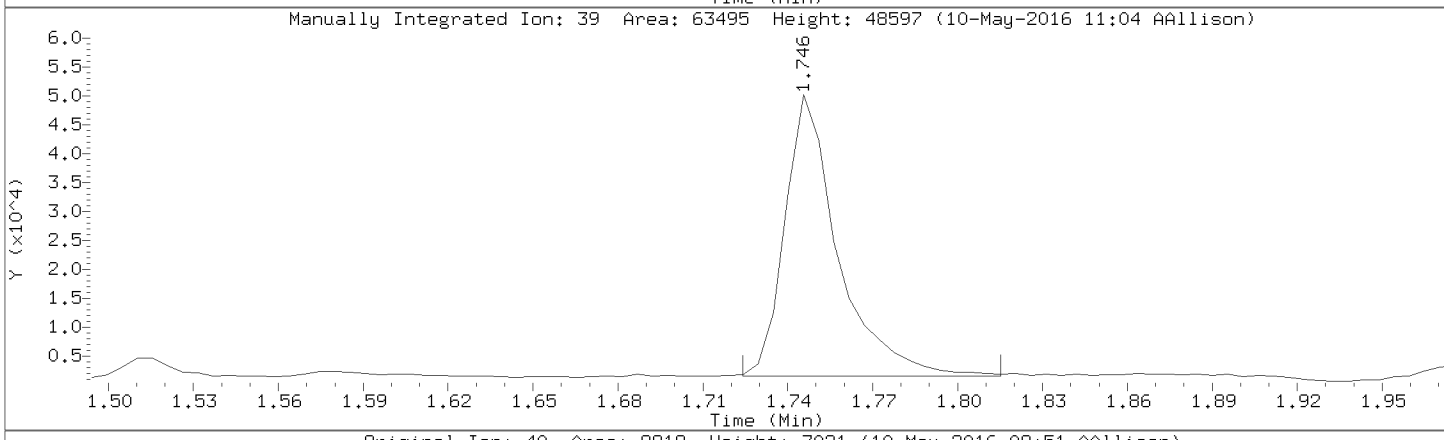


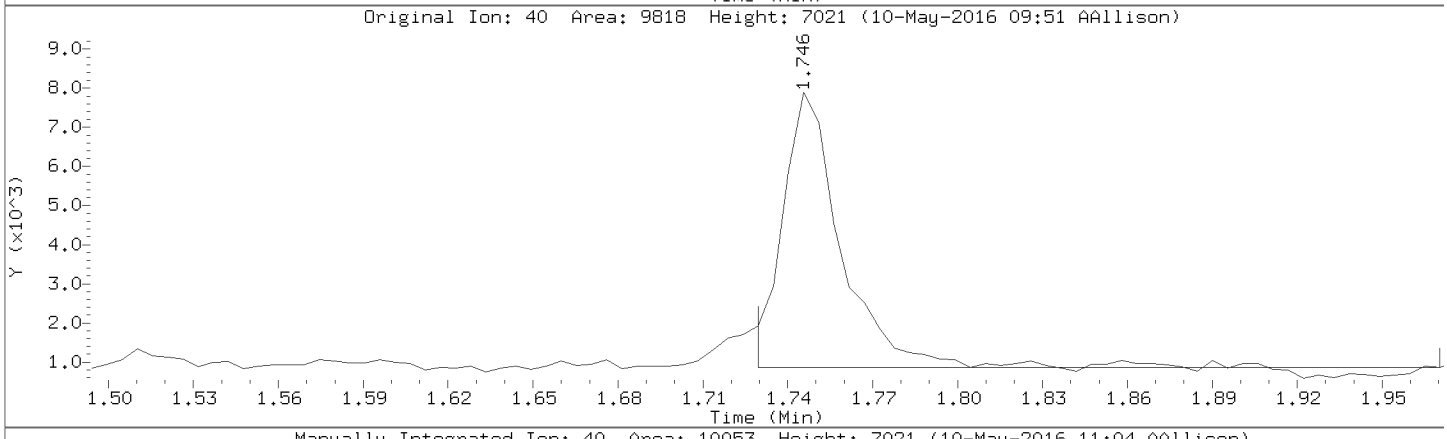


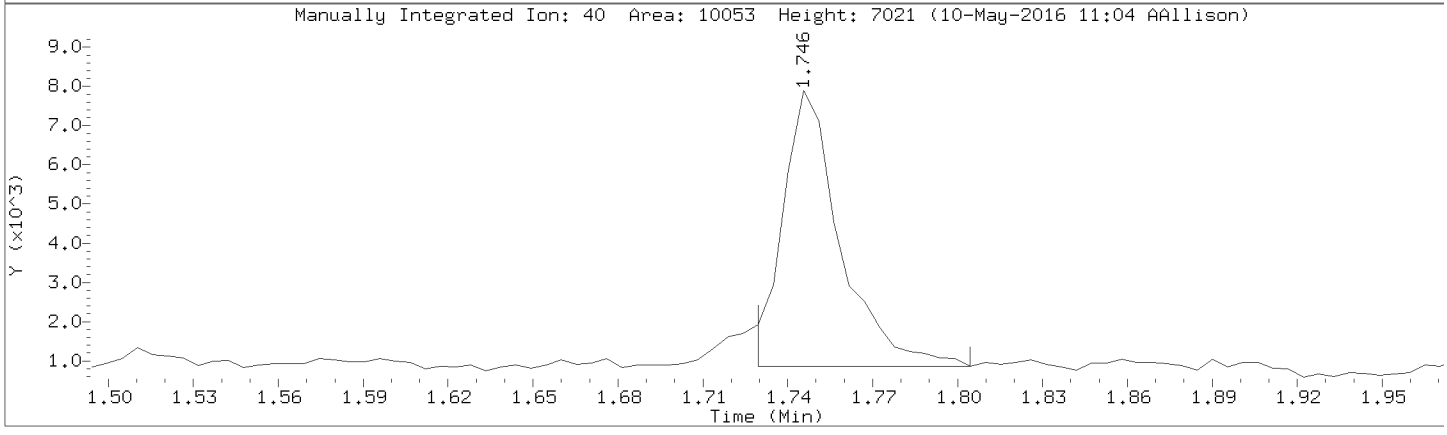
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8

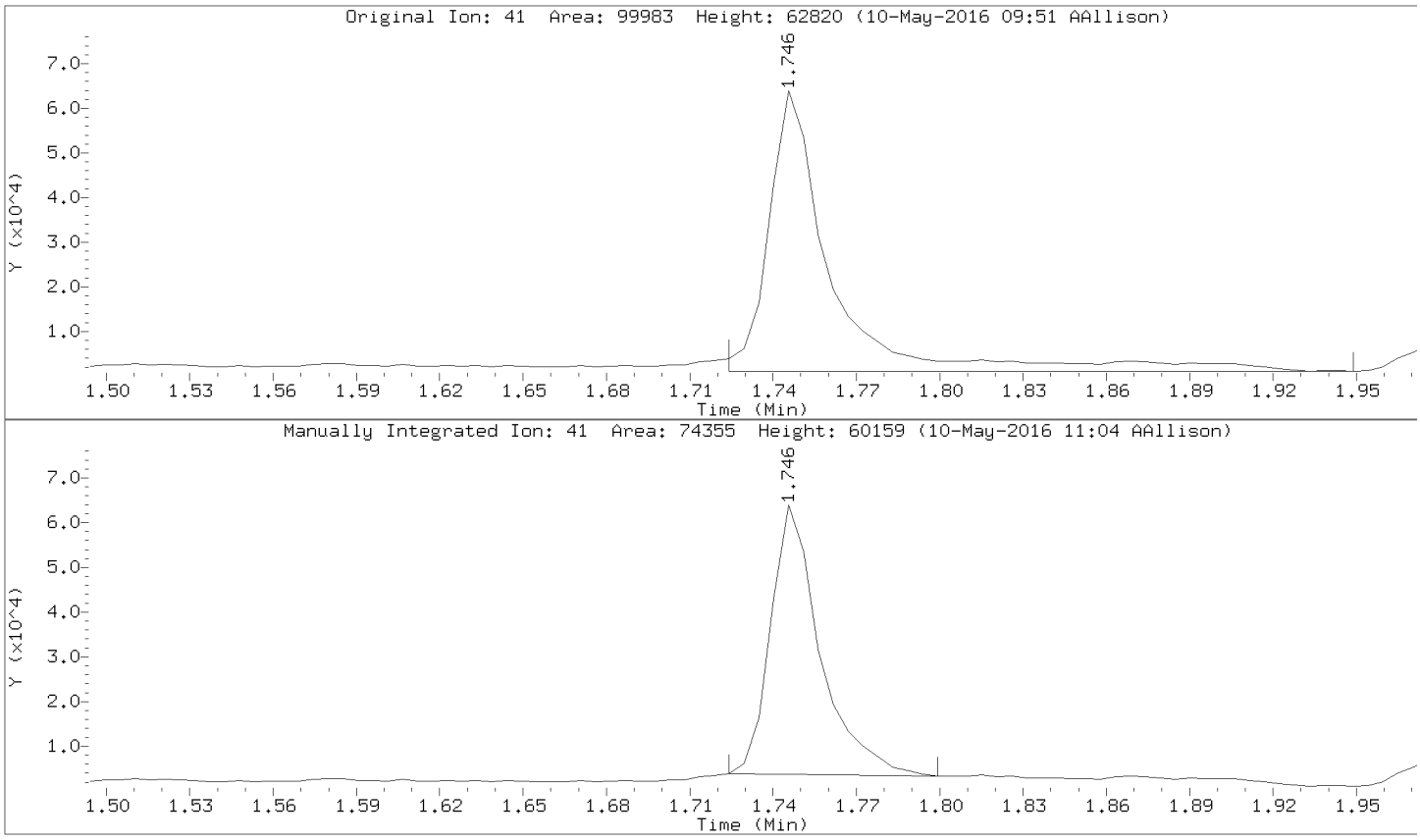






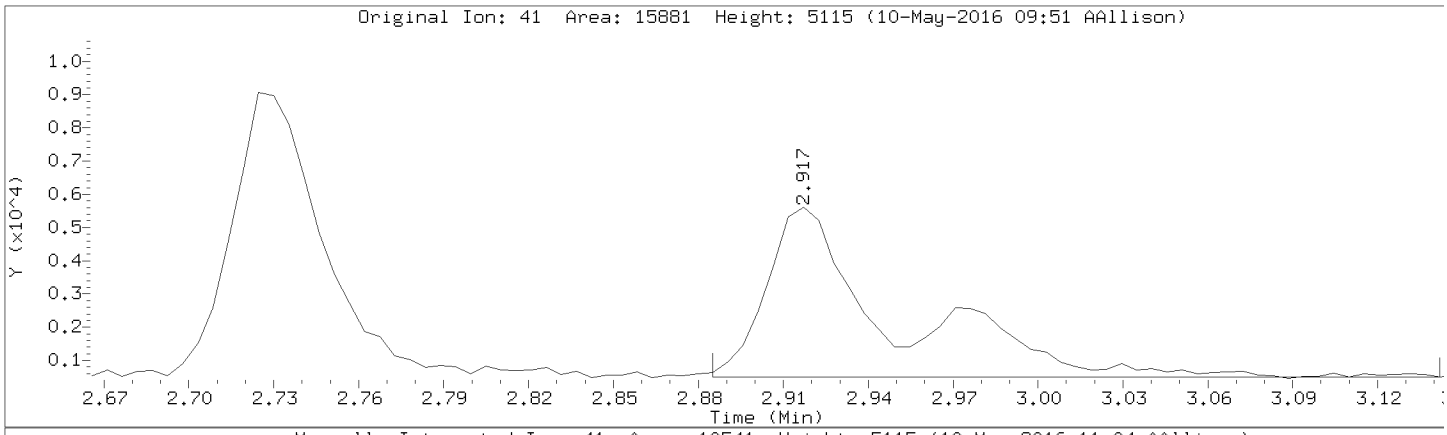


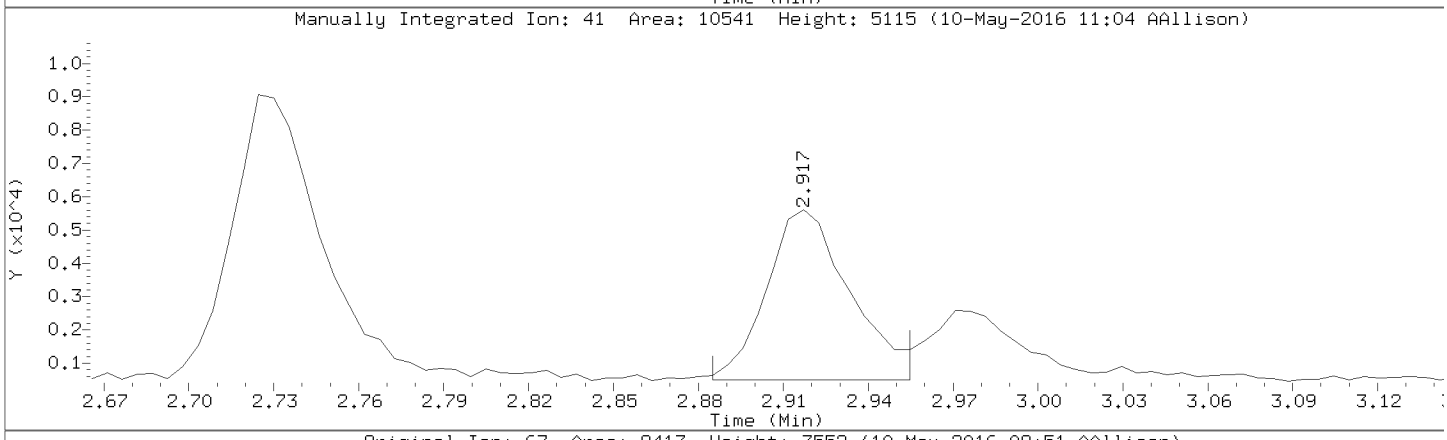
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

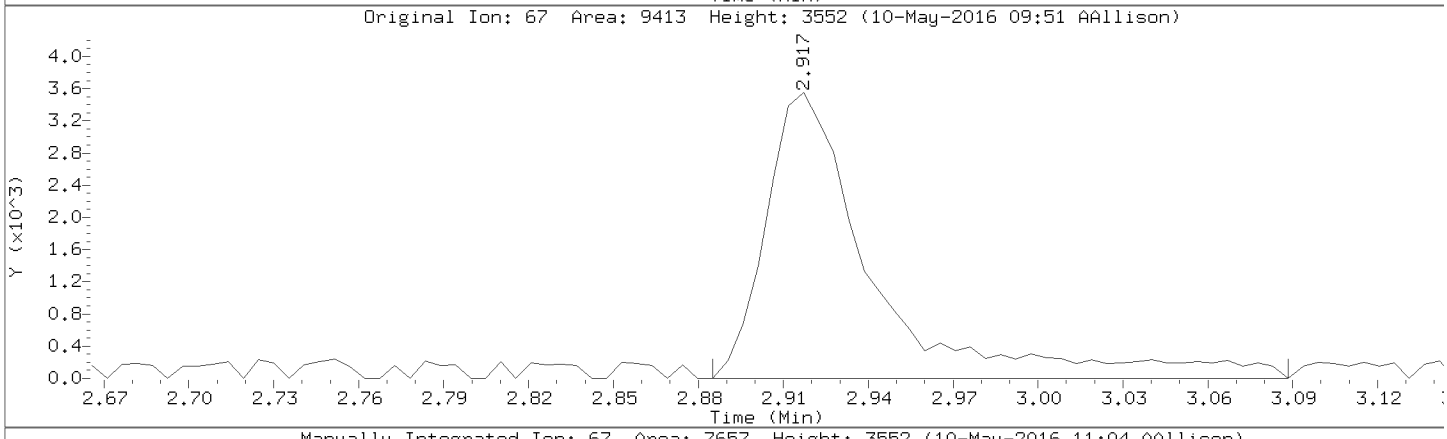


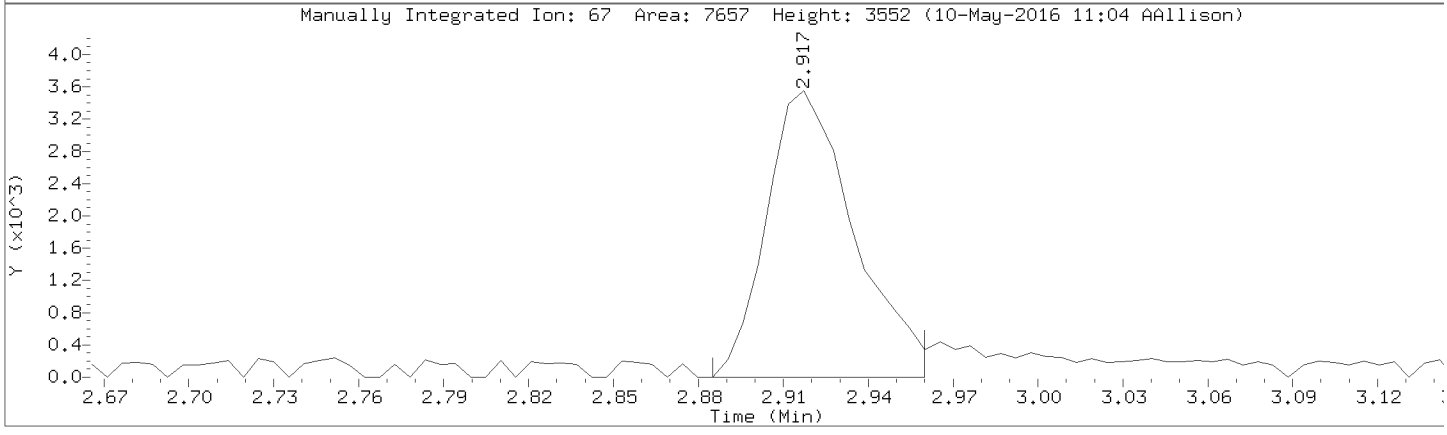
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4

Compound: Methacrylonitrile Review Code: CO
CAS Number: 126-98-7

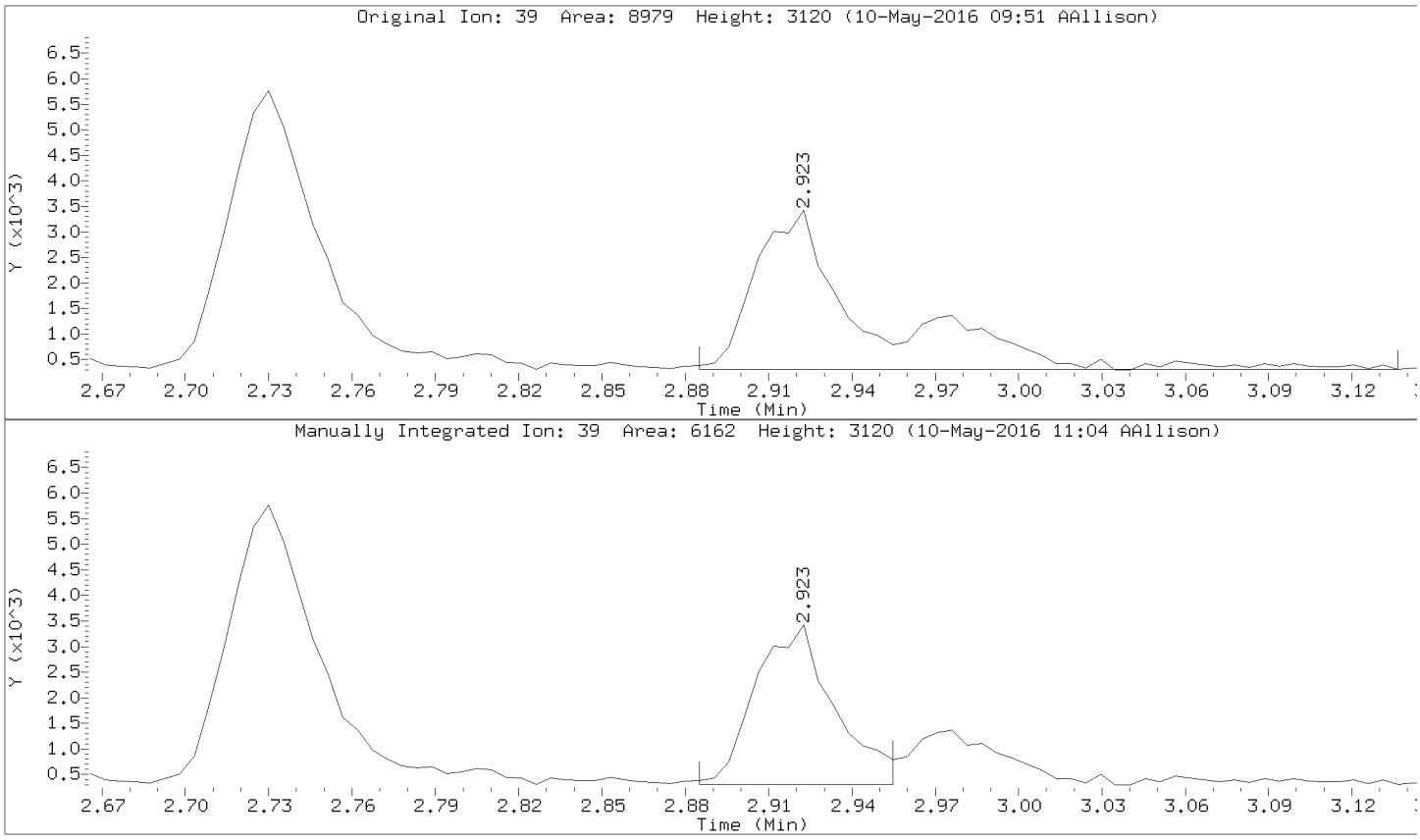








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a04.d
Injection Date: 09-MAY-2016 21:30
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL4



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a05.d
Lab Smp Id: 8260-CAL5 Client Smp ID: 8260-CAL5
Inj Date : 09-MAY-2016 22:07
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal5,121033:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	60132	20.0000	21.9
2	Chloromethane	50	0.996	0.986	(0.247)	36076	20.0000	19.4
3	Vinyl Chloride	62	1.034	1.034	(0.256)	59960	20.0000	21.1
4	Bromomethane	94	1.167	1.168	(0.289)	13761	20.0000	23.3
5	Chloroethane	64	1.210	1.210	(0.300)	38142	20.0000	22.5
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	106702	20.0000	21.7
8	Diethyl ether	74	1.440	1.440	(0.357)	25739	20.0000	16.7
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	66497	20.0000	18.9
9	Acrolein	56	1.515	1.515	(0.376)	126360	400.000	415
10	1,1,2trichlorotrifluoroethane	101	1.553	1.553	(0.385)	60331	20.0000	18.6
11	1,1-Dichloroethene	96	1.558	1.563	(0.386)	44255	20.0000	18.2
12	Acetone	43	1.579	1.585	(0.391)	63269	100.000	81.2
13	Iodomethane	142	1.644	1.649	(0.407)	42971	40.0000	40.1(M)
14	Carbon Disulfide	76	1.692	1.686	(0.419)	138292	20.0000	15.3
16	Methyl Acetate	43	1.734	1.734	(0.430)	43229	20.0000	25.2(M)
143	Acetonitrile	39	1.745	1.745	(0.433)	116443	20.0000	19.1(M)
15	allyl chloride	41	1.745	1.745	(0.433)	150635	40.0000	41.3(M)
17	Methylene Chloride	84	1.820	1.820	(0.451)	46026	20.0000	15.6
18	tert-Butyl Alcohol	59	1.874	1.873	(0.464)	12750	40.0000	31.5(M)
19	Acrylonitrile	53	1.954	1.954	(0.484)	47598	80.0000	70.6
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	96166	20.0000	19.0
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.491)	39635	20.0000	16.9
22	n-Hexane	57	2.146	2.146	(0.532)	49451	20.0000	20.9(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.269	2.264	(0.563)	302150	80.0000	93.0
	23 1,1-Dichloroethane	63	2.275	2.275	(0.564)	70853	20.0000	17.7
	147 chloroprene	53	2.323	2.323	(0.576)	54012	20.0000	18.9
	28 2-Butanone	43	2.724	2.724	(0.675)	82946	100.000	74.4
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.675)	42157	20.0000	17.7
	27 2,2-Dichloropropane	77	2.730	2.730	(0.677)	62130	20.0000	17.1
	149 Propionitrile	54	2.783	2.783	(0.690)	5431	20.0000	17.3(Q)
	144 Methacrylonitrile	41	2.917	2.917	(0.723)	18070	20.0000	16.9(M)
	30 Bromochloromethane	49	2.949	2.949	(0.731)	27170	20.0000	17.5
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	12143	20.0000	15.9(M)
	32 Chloroform	83	3.050	3.056	(0.756)	75566	20.0000	18.8
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	94592	50.0000	45.8
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.797)	70953	20.0000	17.9
	35 Cyclohexane	56	3.286	3.291	(0.814)	59624	20.0000	18.9
	150 n-Butyl chloride	56	3.355	3.355	(0.832)	67892	20.0000	19.1
	36 Carbon Tetrachloride	117	3.388	3.393	(0.840)	62373	20.0000	18.6
	37 1,1-Dichloropropene	75	3.393	3.393	(0.841)	54260	20.0000	20.1
	39 Benzene	78	3.628	3.628	(0.899)	133982	20.0000	18.7
	40 1,2-Dichloroethane	62	3.719	3.714	(0.922)	48377	20.0000	18.2
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.939)	122500	20.0000	18.9
	38 Isobutyl alcohol	43	3.789	3.783	(0.939)	24533	20.0000	19.0
*	41 Fluorobenzene	96	4.035	4.035	(1.000)	289013	50.0000	
	42 Trichloroethene	95	4.490	4.490	(1.113)	38562	20.0000	18.3
	43 Methylcyclohexane	55	4.746	4.741	(1.176)	44181	20.0000	19.8
	44 1,2-Dichloropropane	63	4.794	4.794	(1.188)	35512	20.0000	19.1
	45 Dibromomethane	93	4.896	4.896	(1.213)	25425	20.0000	17.8
	142 1,4-Dioxane	88	4.912	4.907	(1.217)	8770	400.000	354
	46 Methyl methacrylate	69	4.912	4.912	(1.217)	23539	20.0000	21.7
	47 Bromodichloromethane	83	5.115	5.115	(1.268)	56140	20.0000	19.3
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	55482	20.0000	19.4
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	151232	100.000	96.4
$	51 Toluene-d8	98	5.859	5.859	(0.819)	272740	50.0000	51.4
	52 Toluene	91	5.929	5.929	(0.829)	140904	20.0000	18.7
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	48948	20.0000	19.5
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	40182	20.0000	20.9
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	26014	20.0000	19.1
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	41046	20.0000	19.8
	57 1,3-Dichloropropane	76	6.538	6.544	(0.914)	46873	20.0000	19.8
	58 2-Hexanone	43	6.613	6.613	(0.924)	110936	100.000	96.2
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	38892	20.0000	19.8
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	31361	20.0000	20.0
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	203335	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	87989	20.0000	18.6
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	33912	20.0000	20.0
	64 Ethylbenzene	106	7.255	7.255	(1.014)	46969	20.0000	18.8
	65 m&p-Xylene	106	7.346	7.346	(1.027)	117874	40.0000	38.3
	67 o-Xylene	106	7.587	7.592	(1.061)	57083	20.0000	19.0
	68 Styrene	104	7.608	7.608	(1.064)	95416	20.0000	18.6
	69 Bromoform	173	7.715	7.710	(0.904)	28706	20.0000	18.0
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	151510	20.0000	19.0
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	98262	50.0000	50.1
	74 Bromobenzene	77	7.983	7.983	(1.116)	52159	20.0000	17.8
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	39823	20.0000	19.0
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	10872	20.0000	17.5

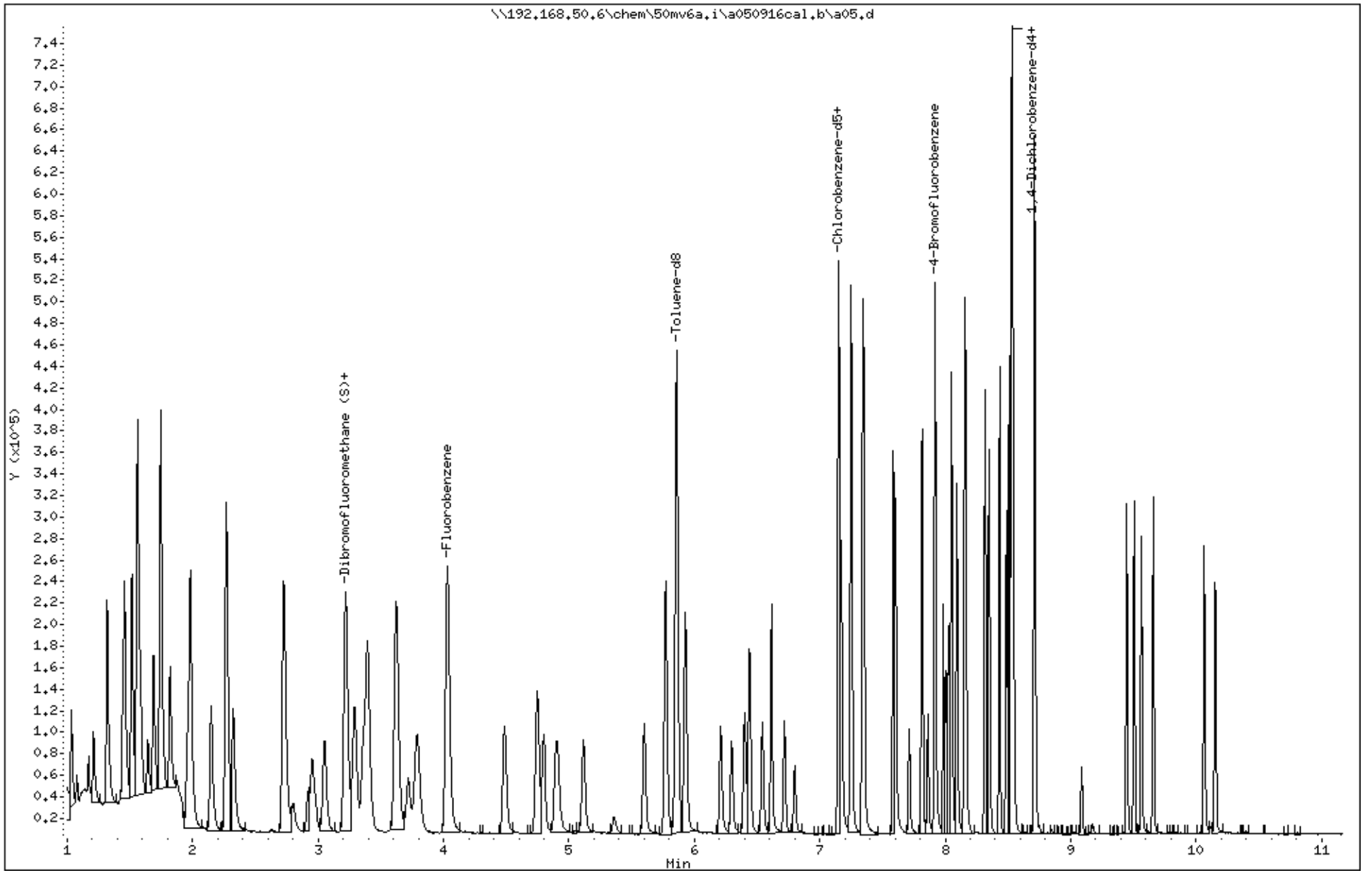
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	10833	20.0000	18.8	
76	n-Propylbenzene	91	8.052	8.052	(0.944)	181871	20.0000	20.0	
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	99579	20.0000	18.7	
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	109195	20.0000	18.9	
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	37467	20.0000	18.9	
80	tert-Butylbenzene	119	8.315	8.315	(0.974)	125814	20.0000	19.4	(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	106253	20.0000	18.1	
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	157494	20.0000	19.6	
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	69042	20.0000	18.7	
84	p-Isopropyltoluene	119	8.513	8.513	(0.997)	126414	20.0000	19.4	
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	109399	50.0000		
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	70966	20.0000	18.4	
87	n-Butylbenzene	91	8.710	8.710	(1.021)	118428	20.0000	18.3	
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	66865	20.0000	19.0	
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	7916	20.0000	17.7	
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	47660	20.0000	18.1	
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	29359	20.0000	18.8	
92	Naphthalene	128	9.566	9.566	(1.121)	122283	20.0000	16.4	
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	47722	20.0000	18.4	
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	71117	20.0000	17.5	
148	1-Methylnaphthalene	141	10.150	10.155	(1.189)	61283	20.0000	17.3	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

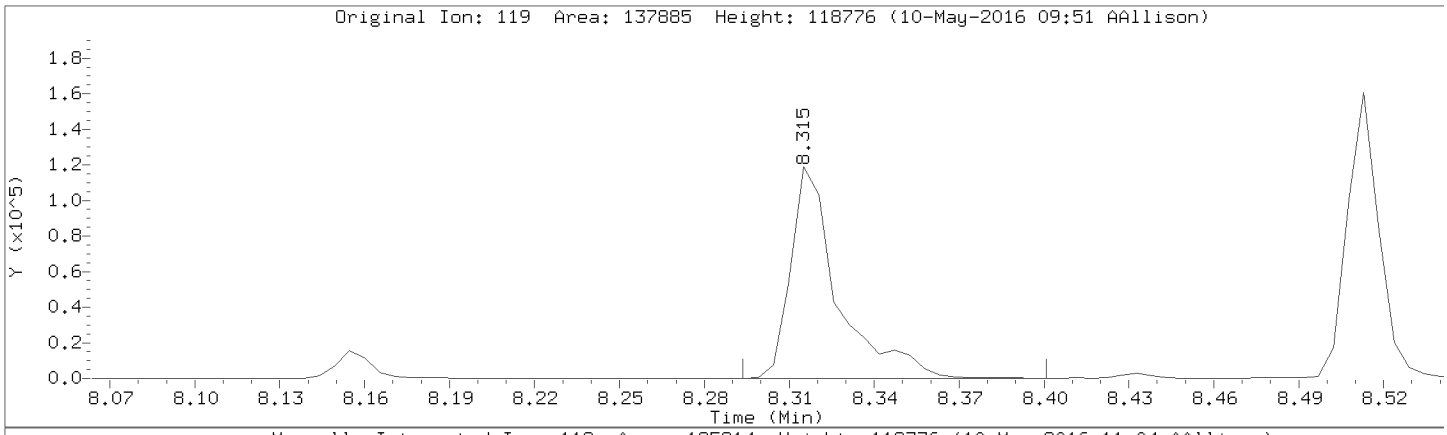
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a05.d
Date : 09-MAY-2016 22:07
Client ID: 8260-CAL5
Sample Info: 8260-CAL5,121033:0
Purge Volume: 5.0
Column phase: DB-624

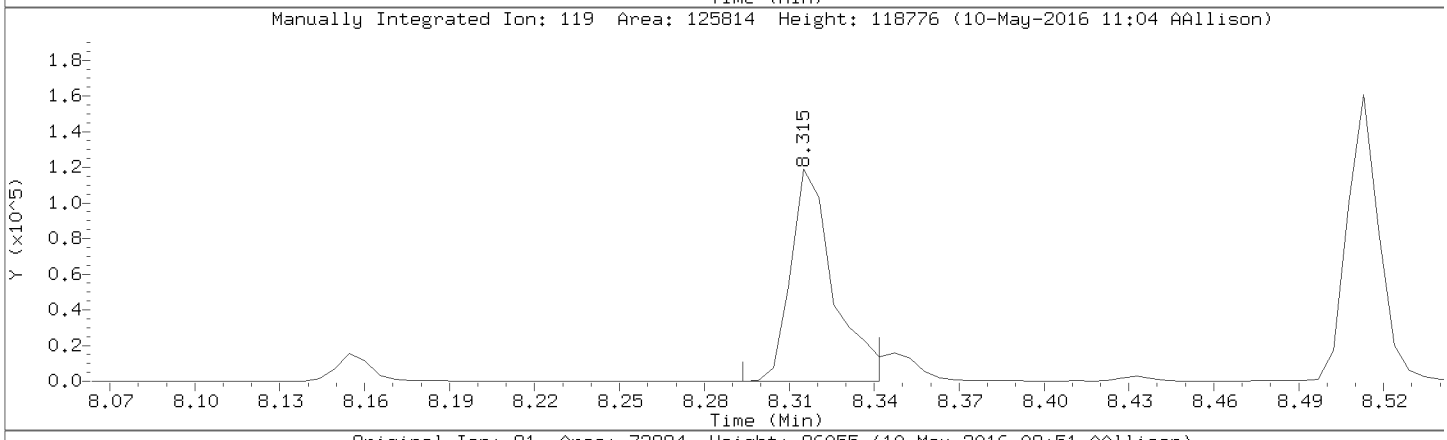
Instrument: 50mv6a.i
Operator: ala
Column diameter: 0.18

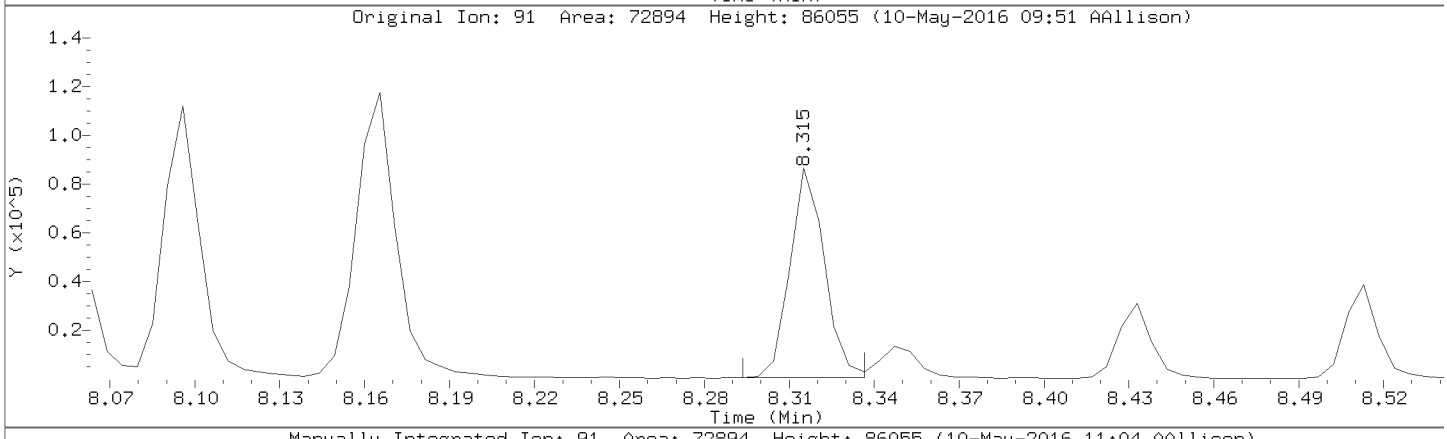


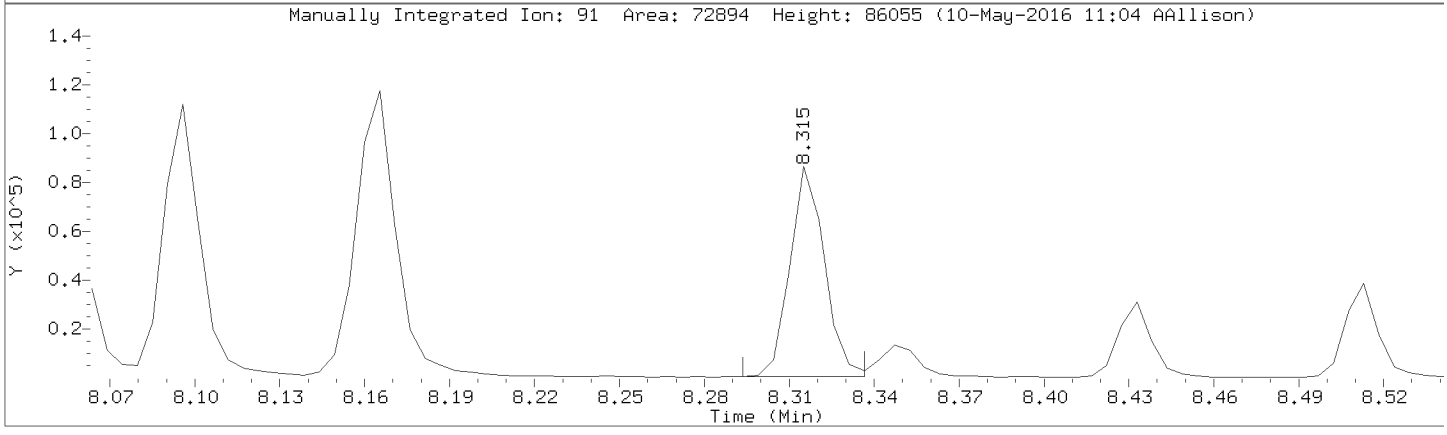
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

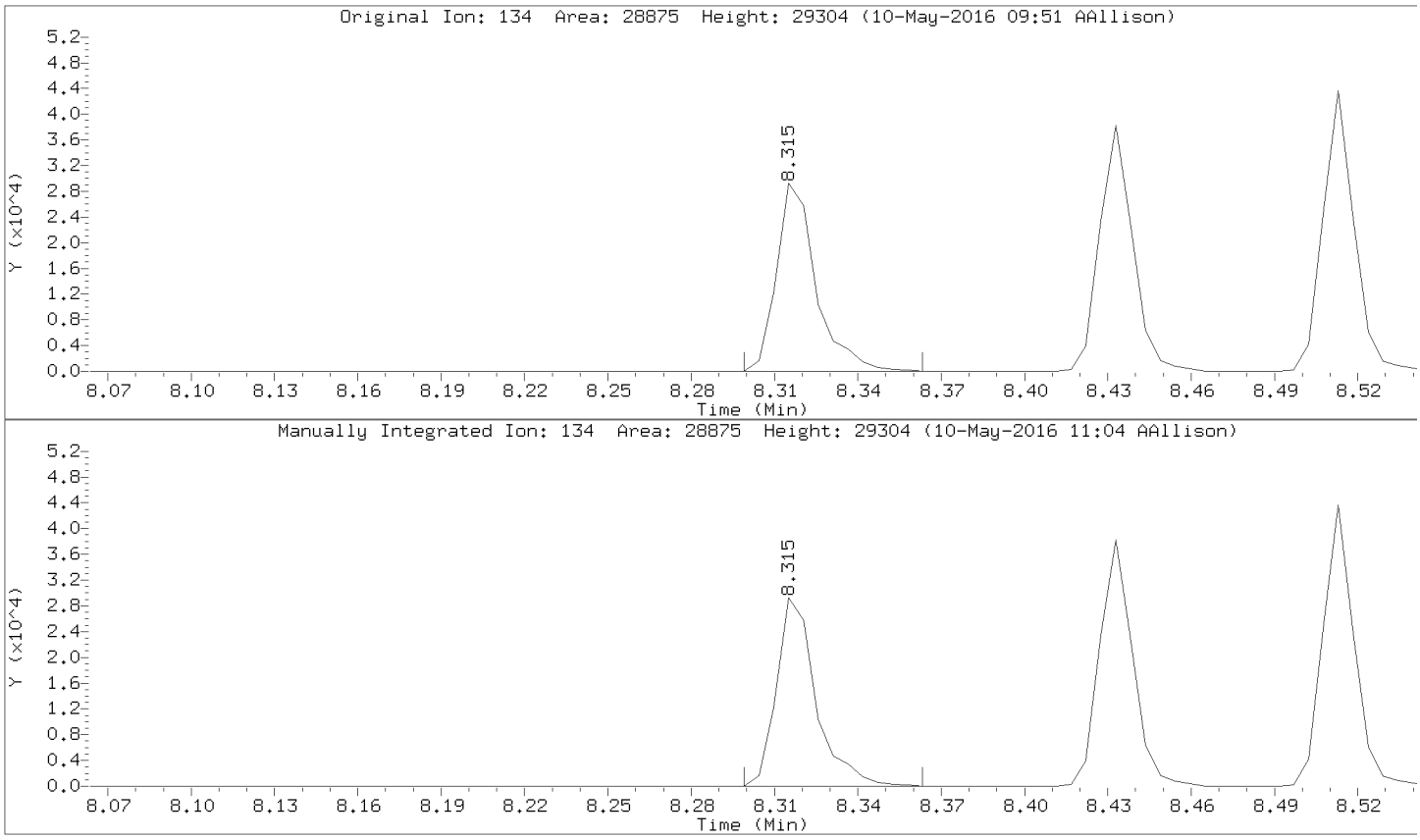






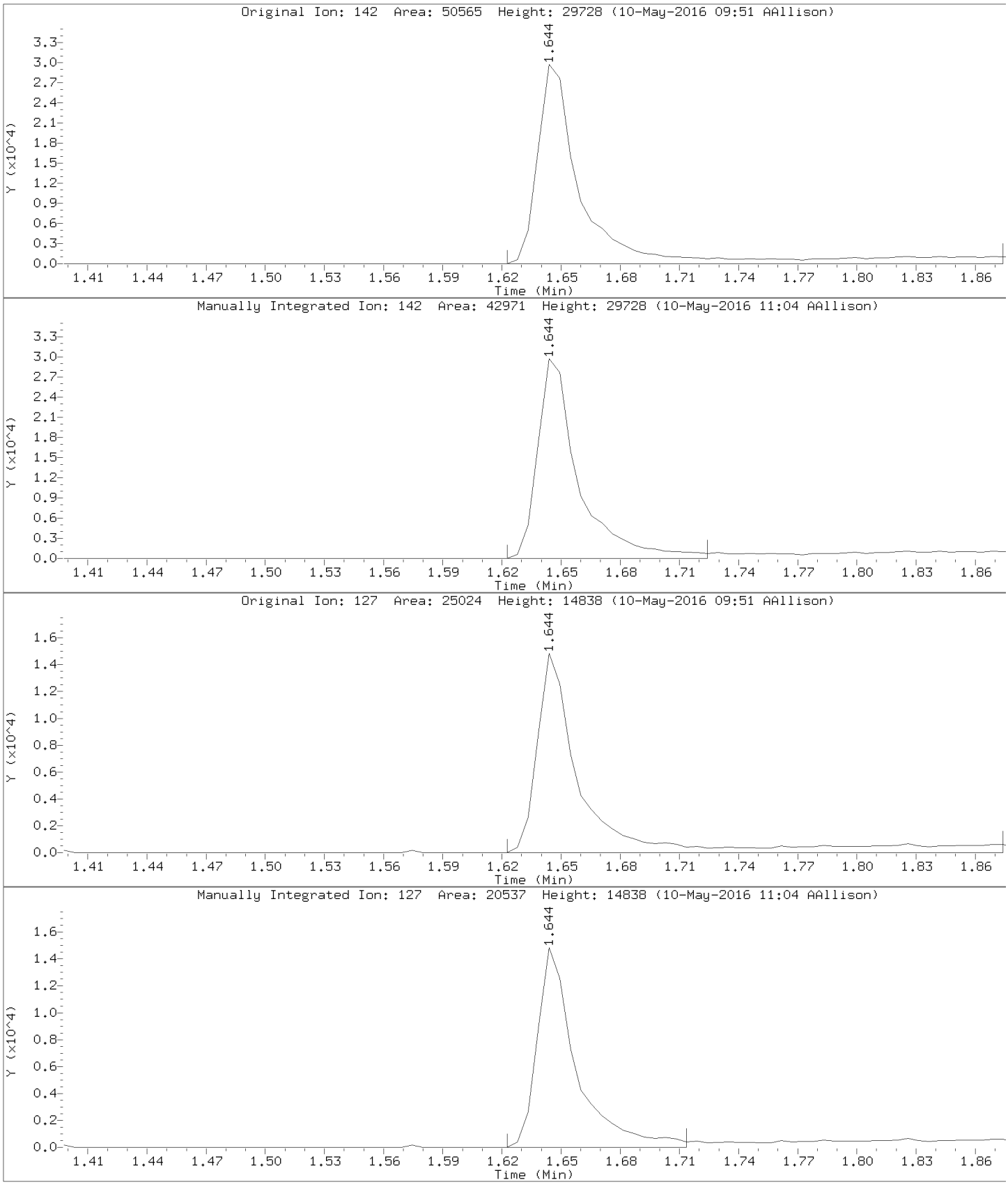


Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5



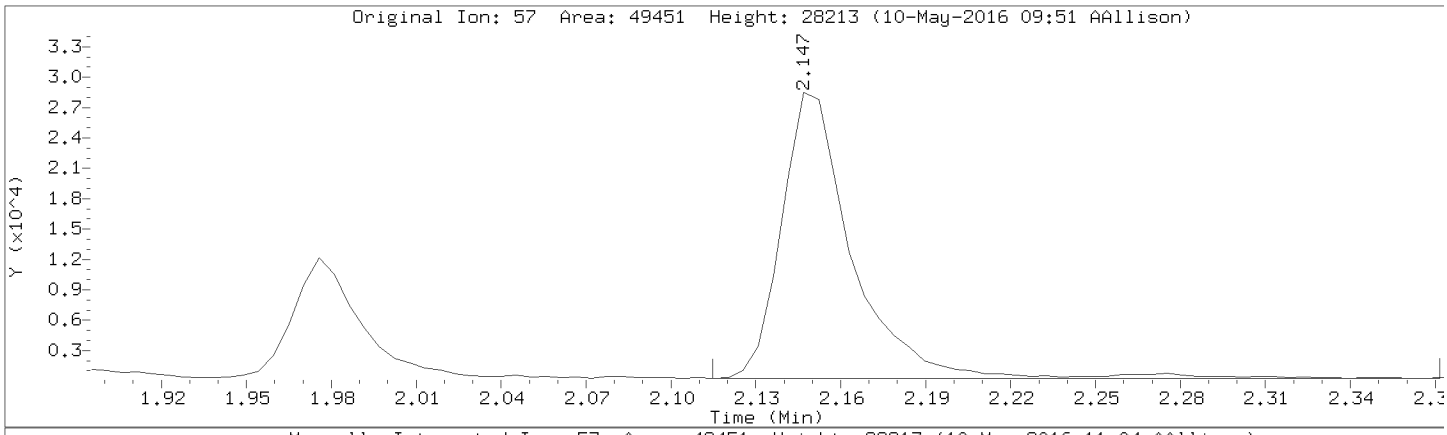
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

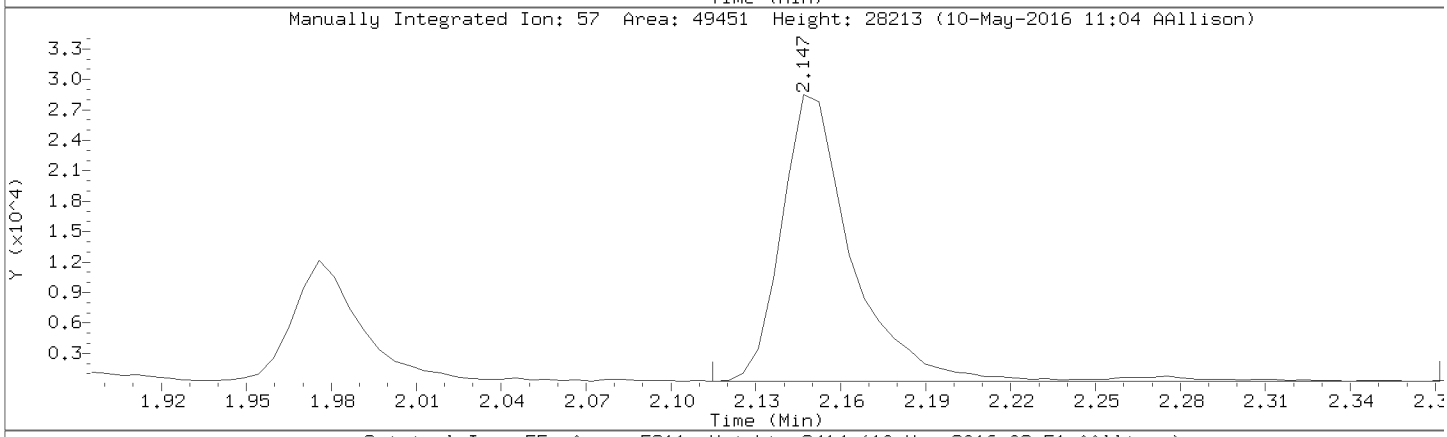
Compound: Iodomethane Review Code: GT
CAS Number:

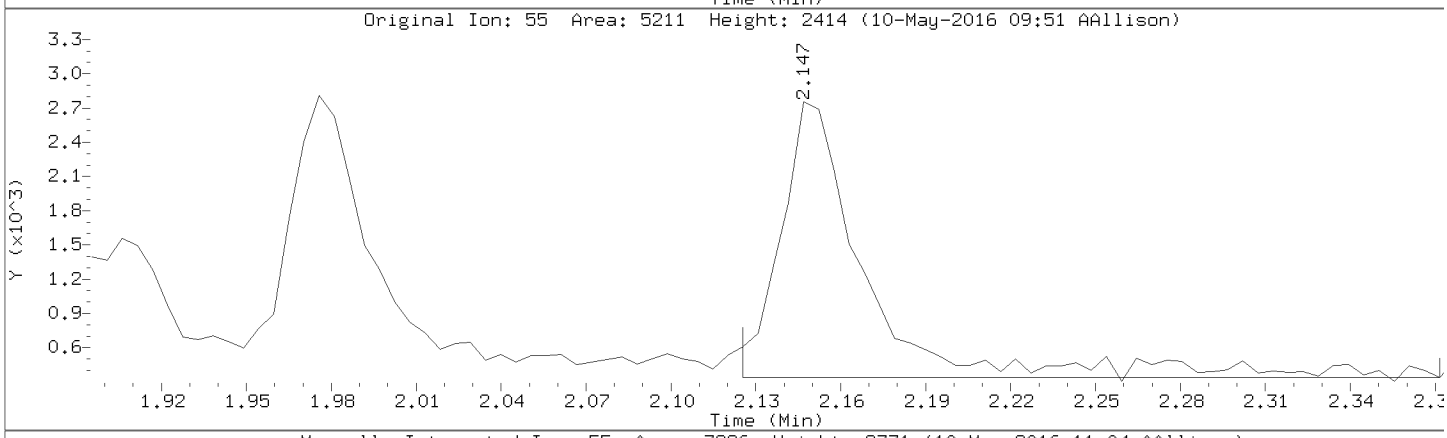


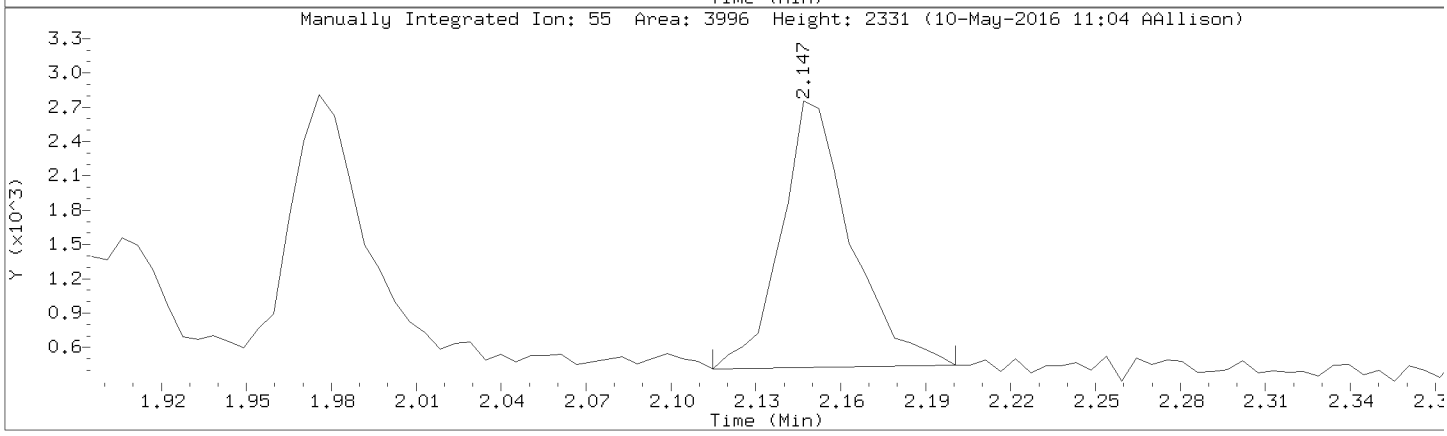
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: n-Hexane Review Code: GT
CAS Number:



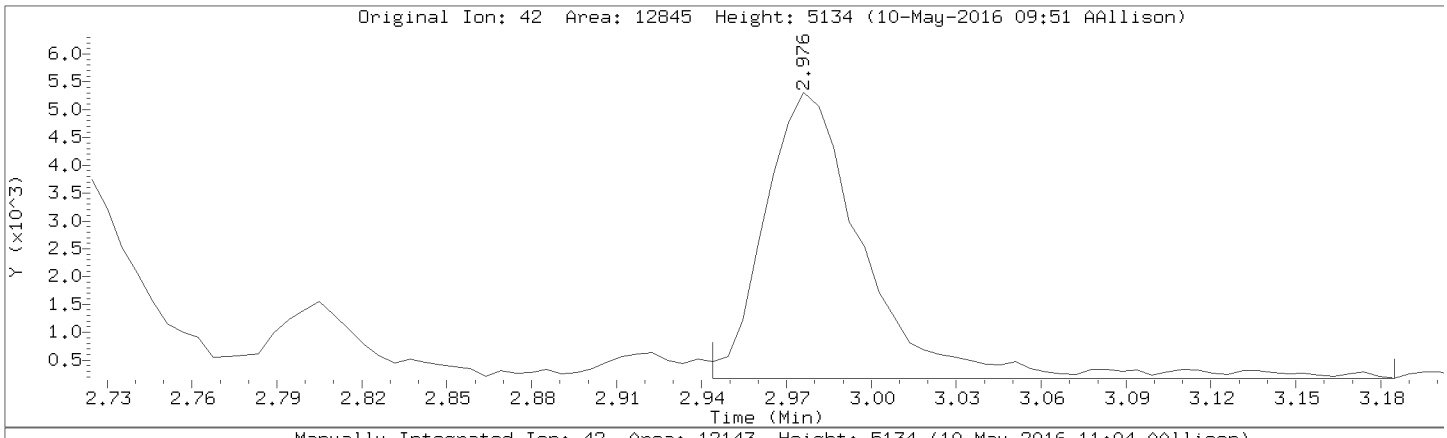


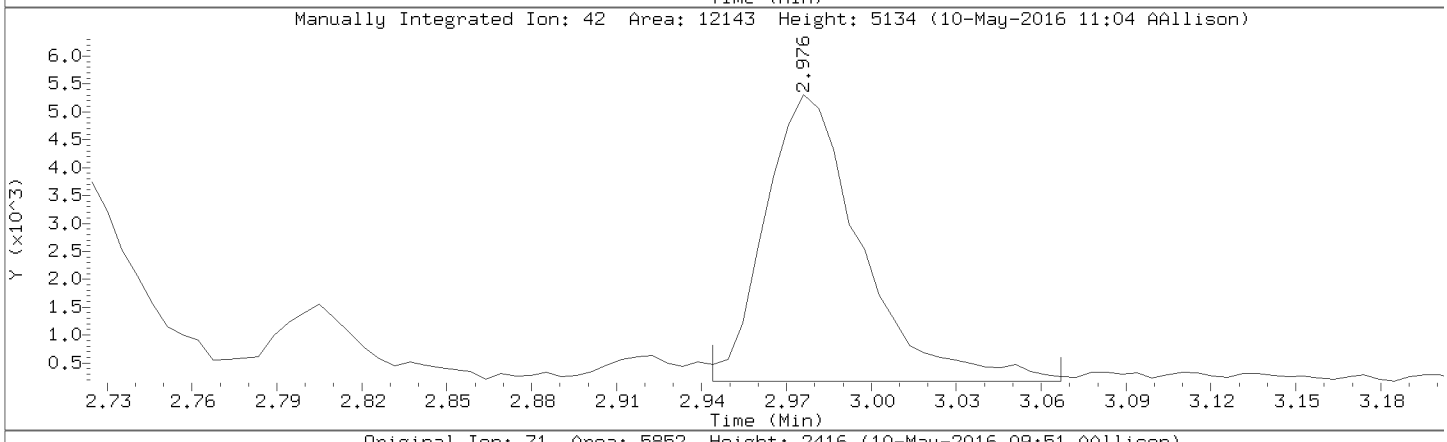


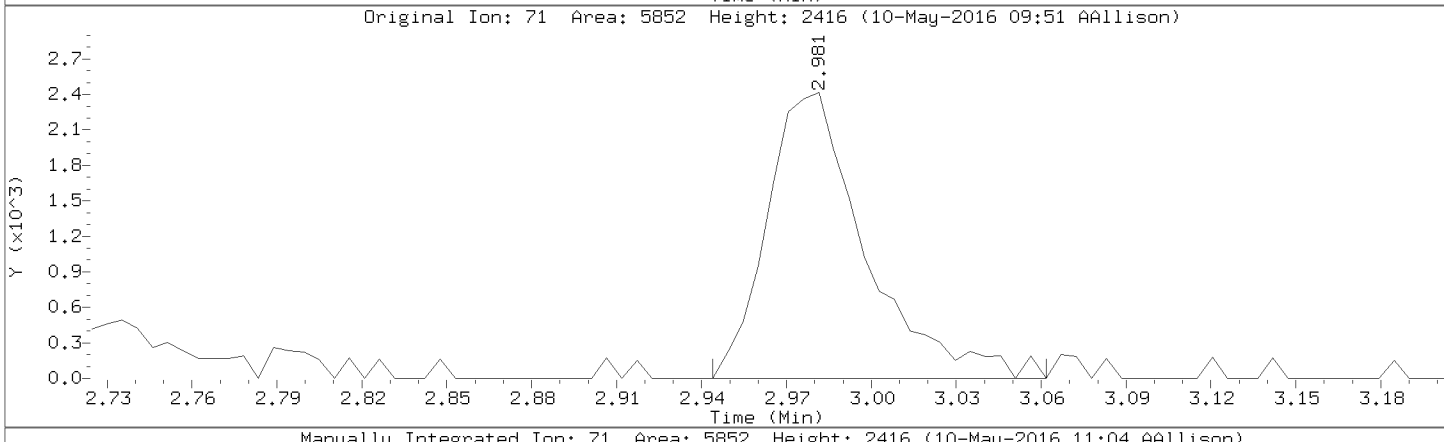


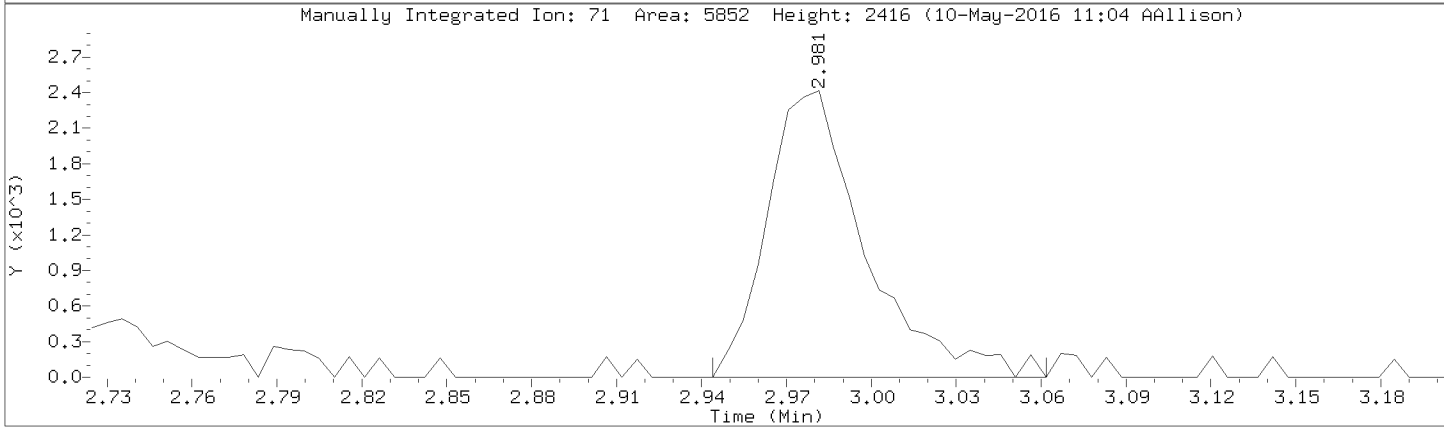
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: Tetrahydrofuran Review Code: GT
CAS Number:

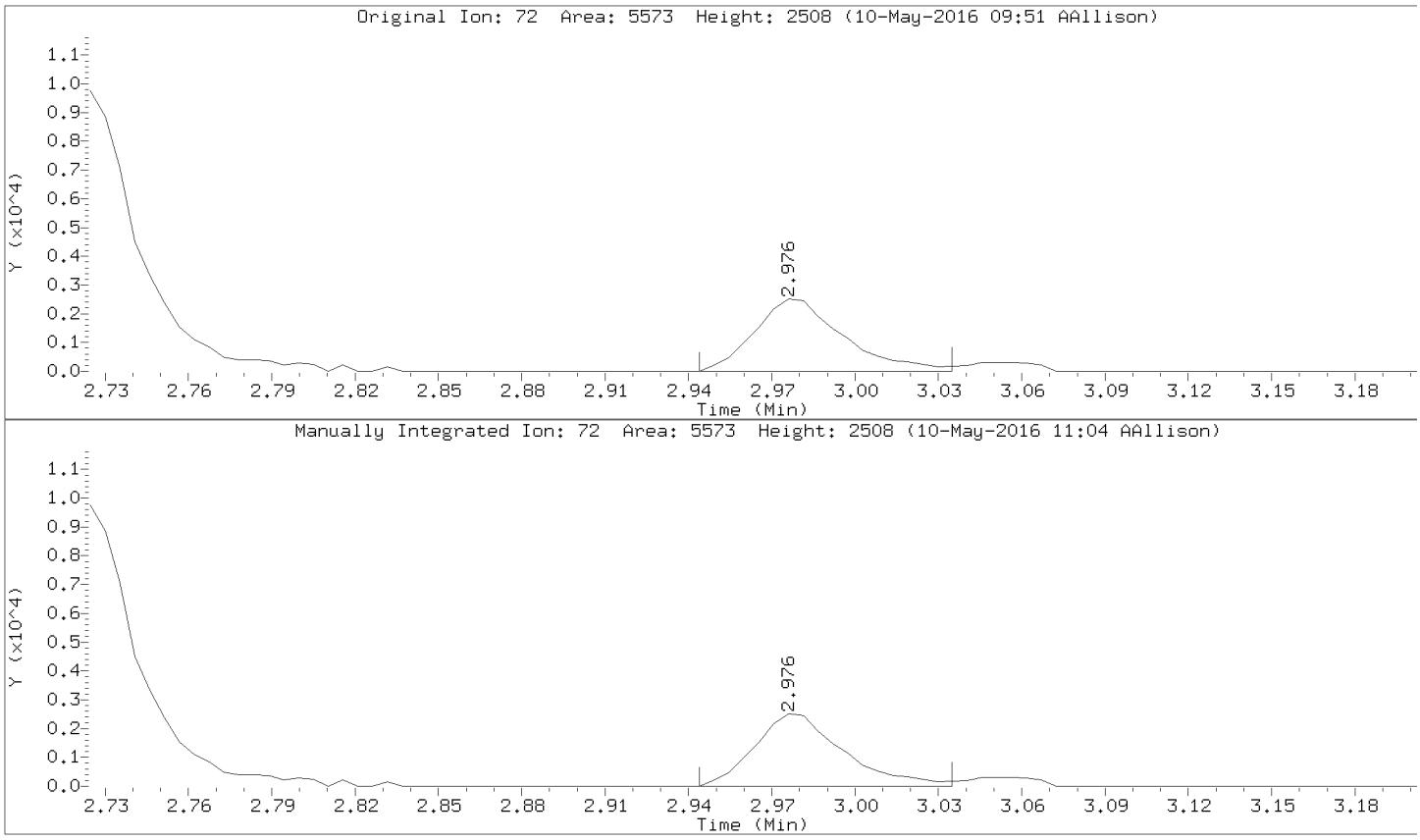






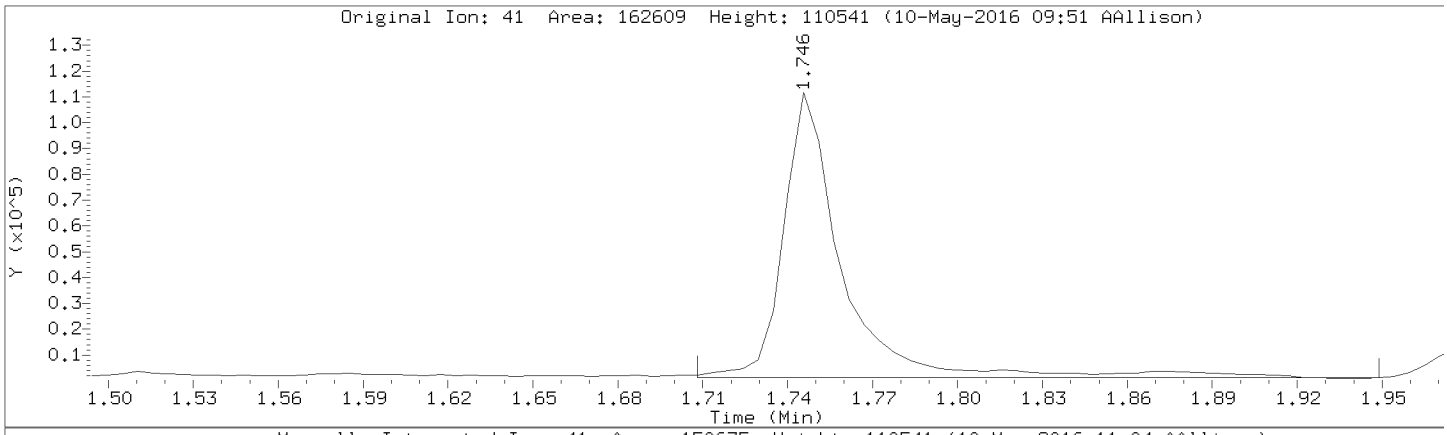


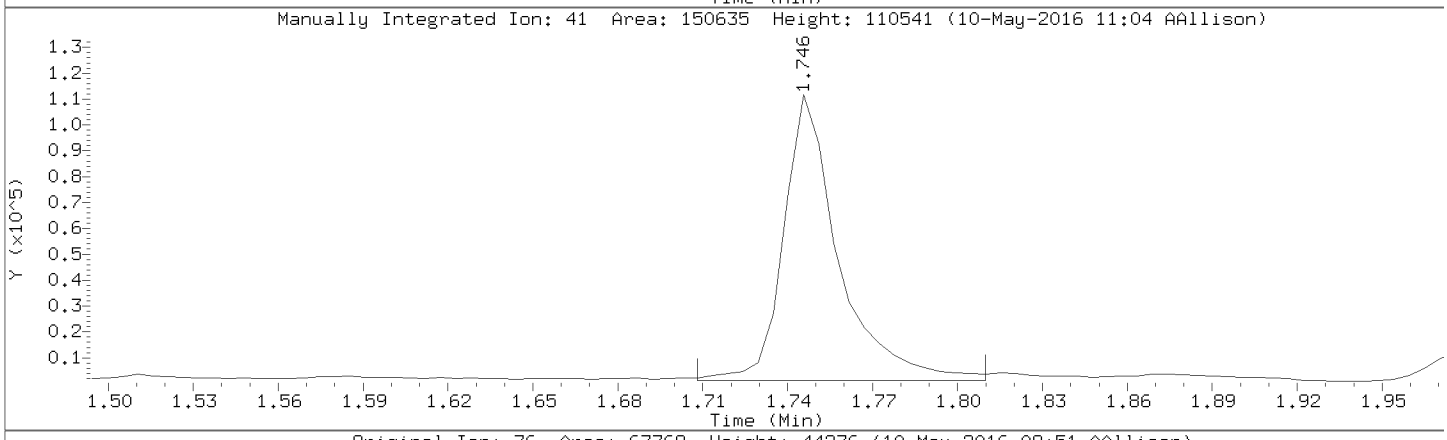
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

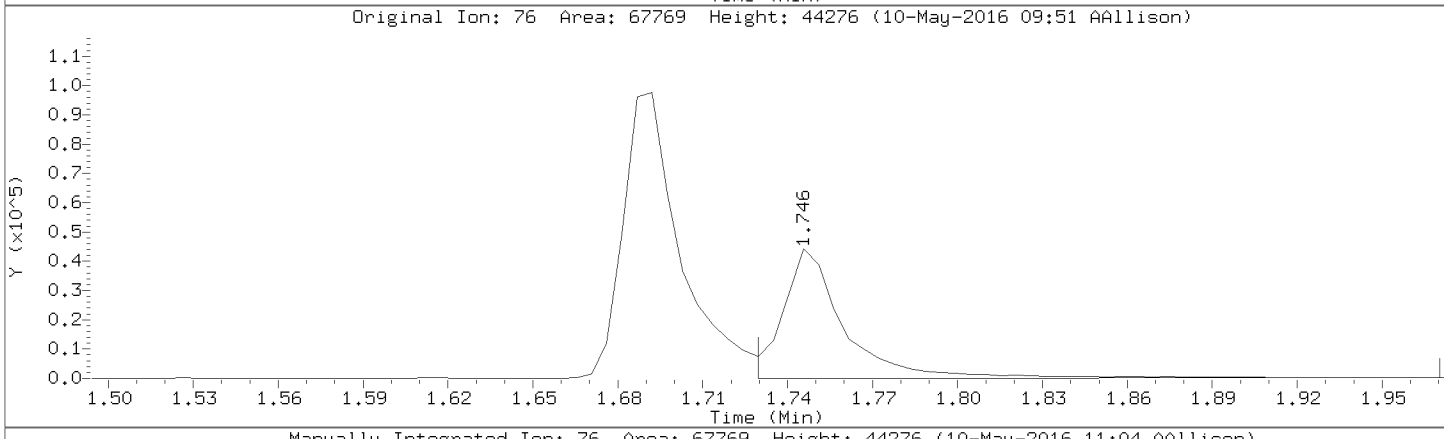


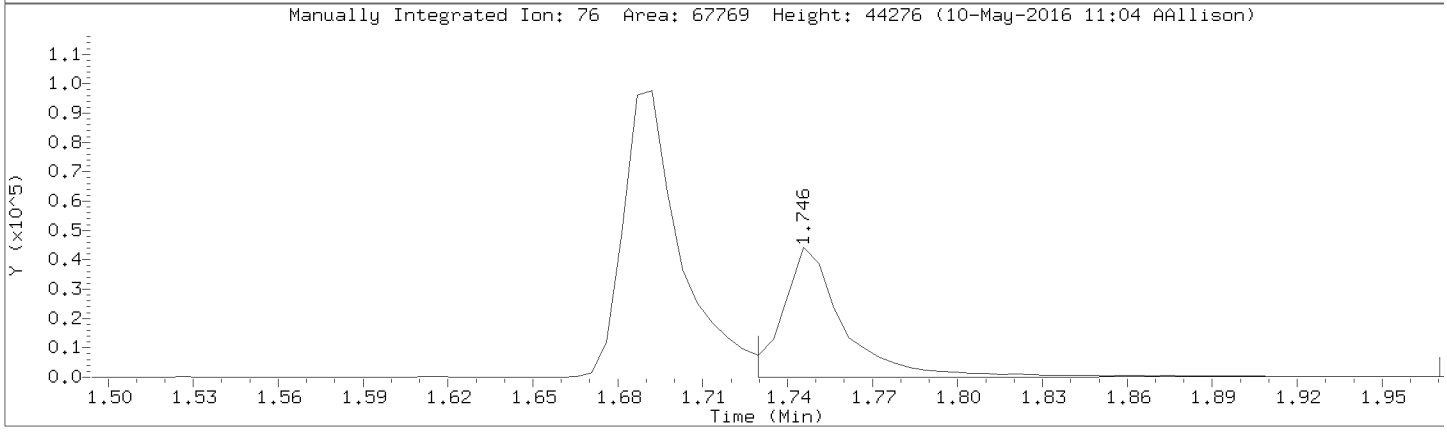
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: allyl chloride Review Code: GT
CAS Number: 107-05-1



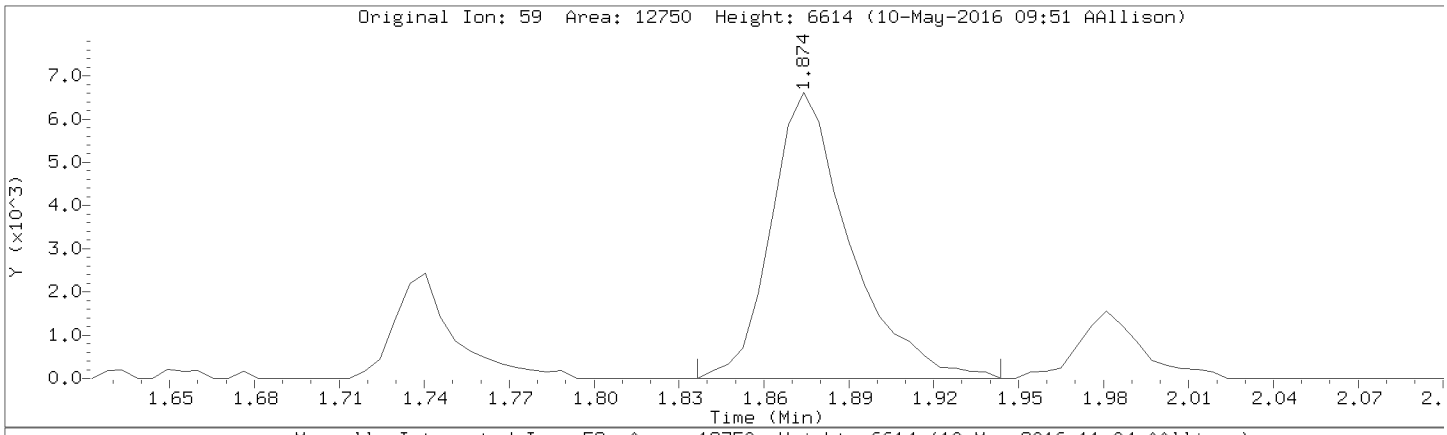


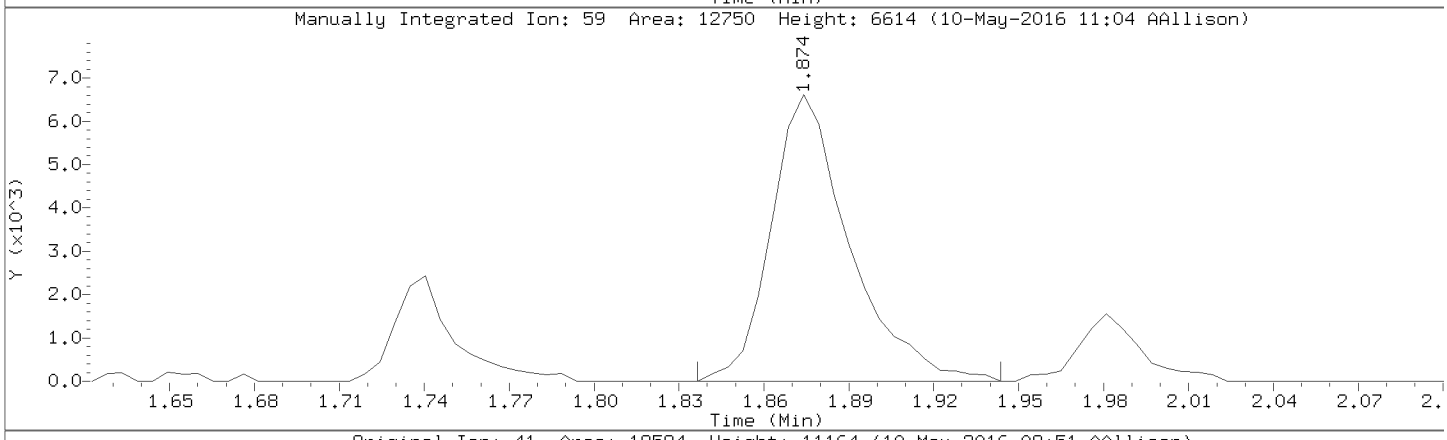


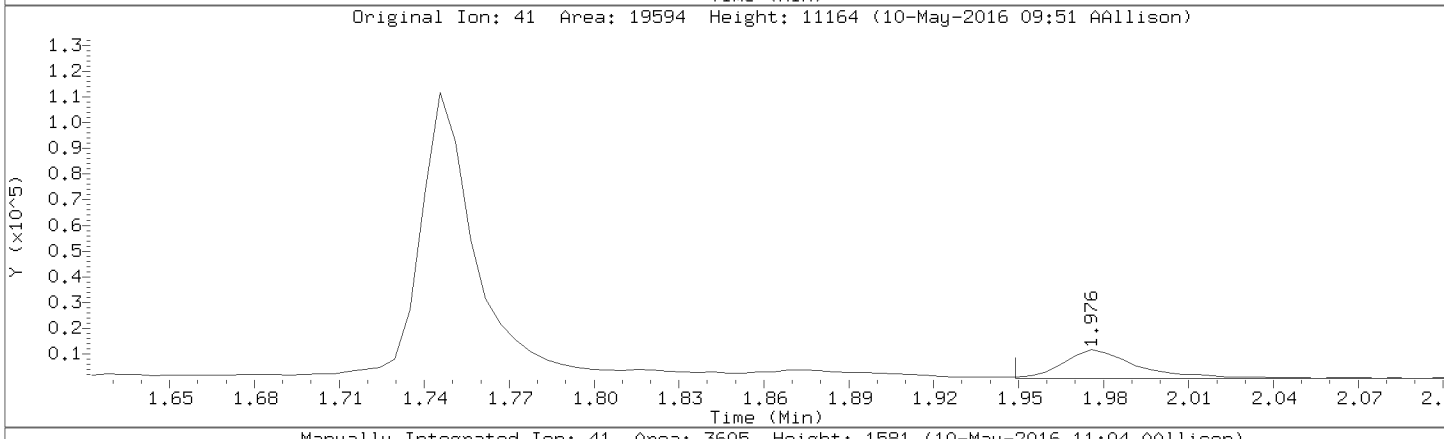


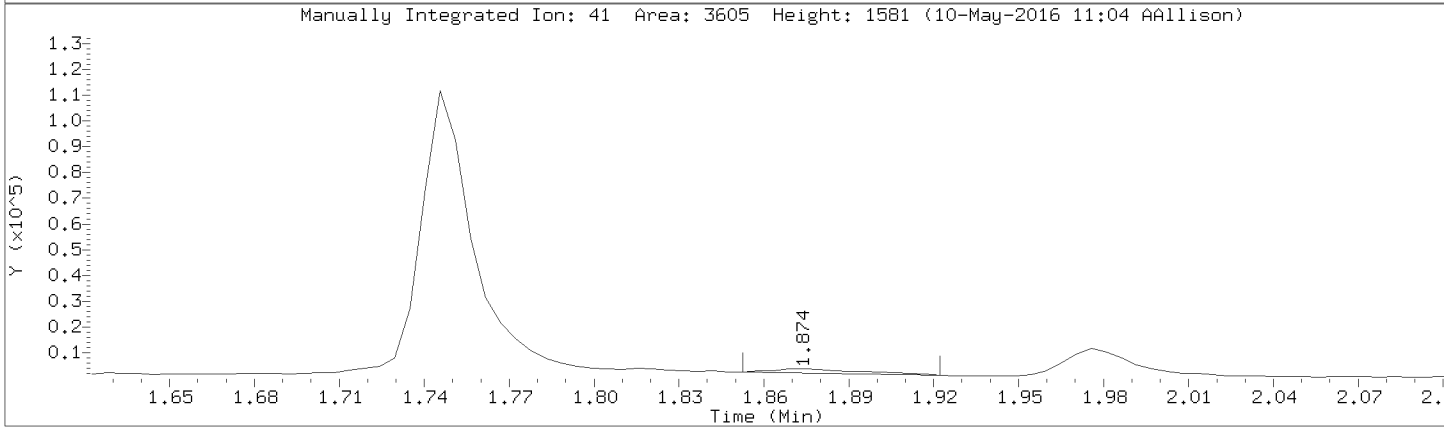
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



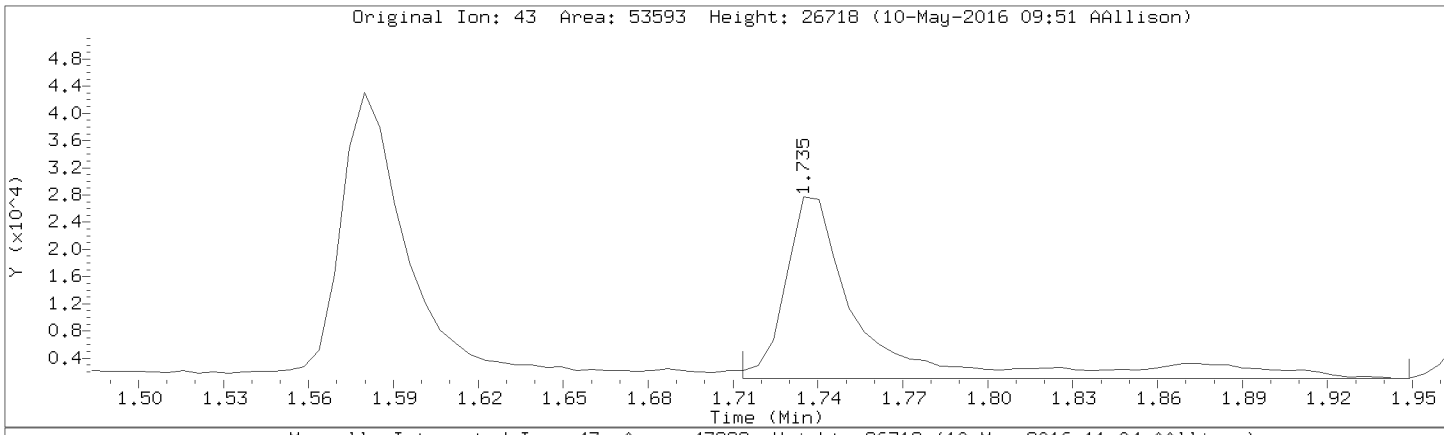


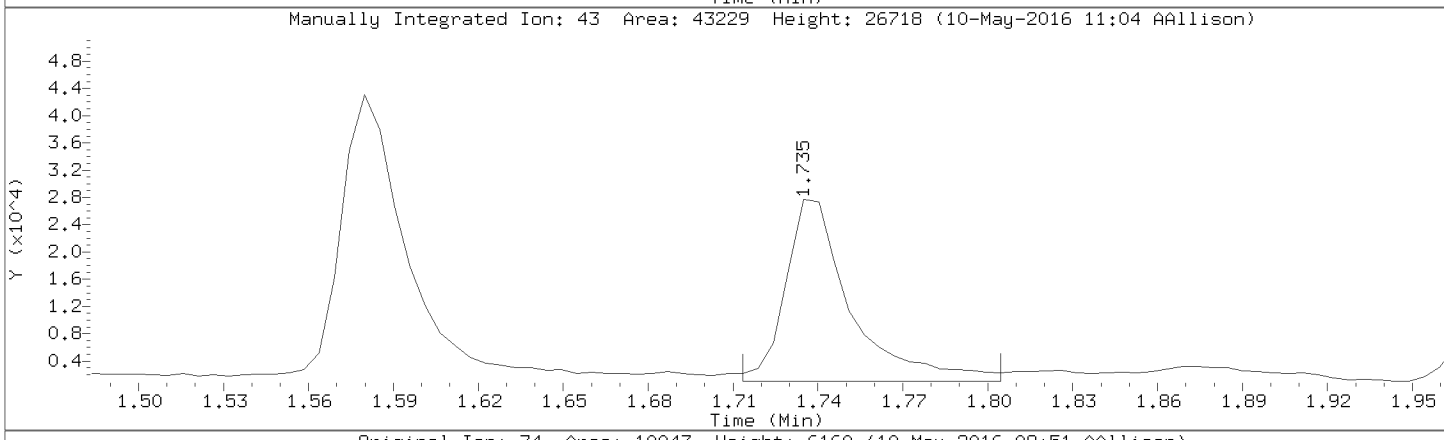


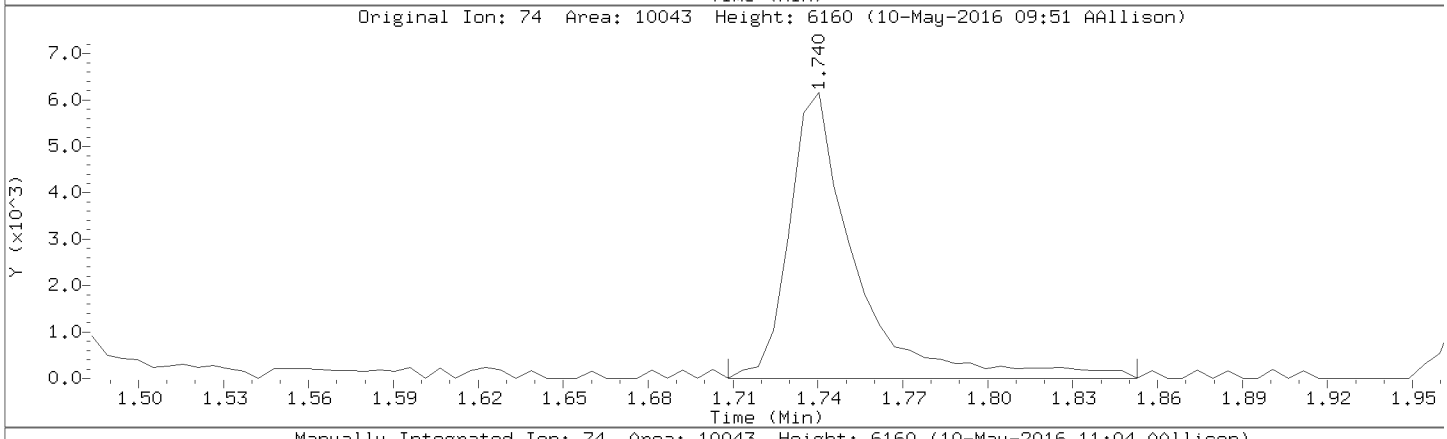


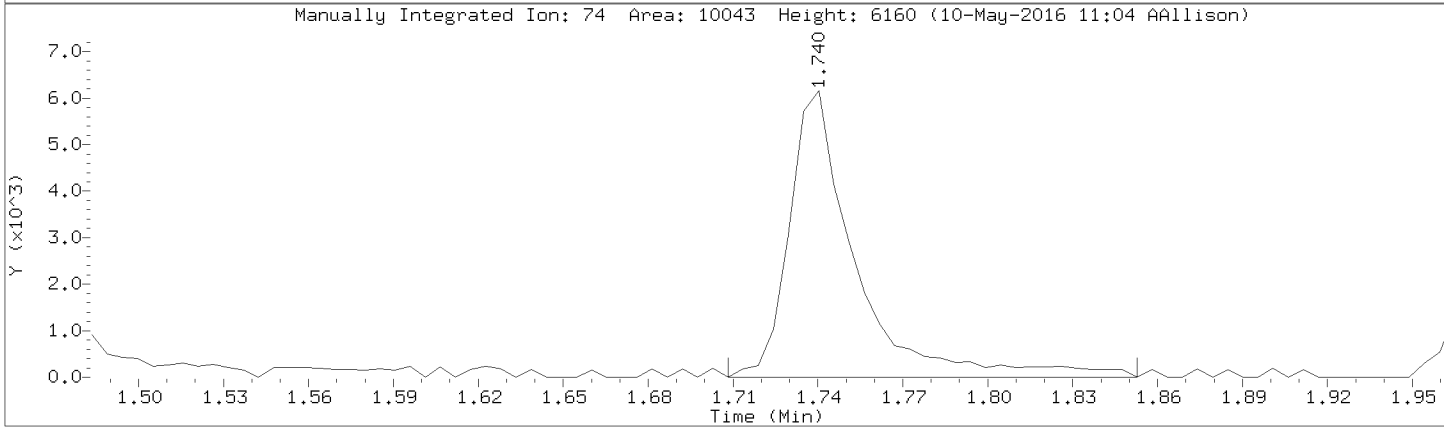
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9



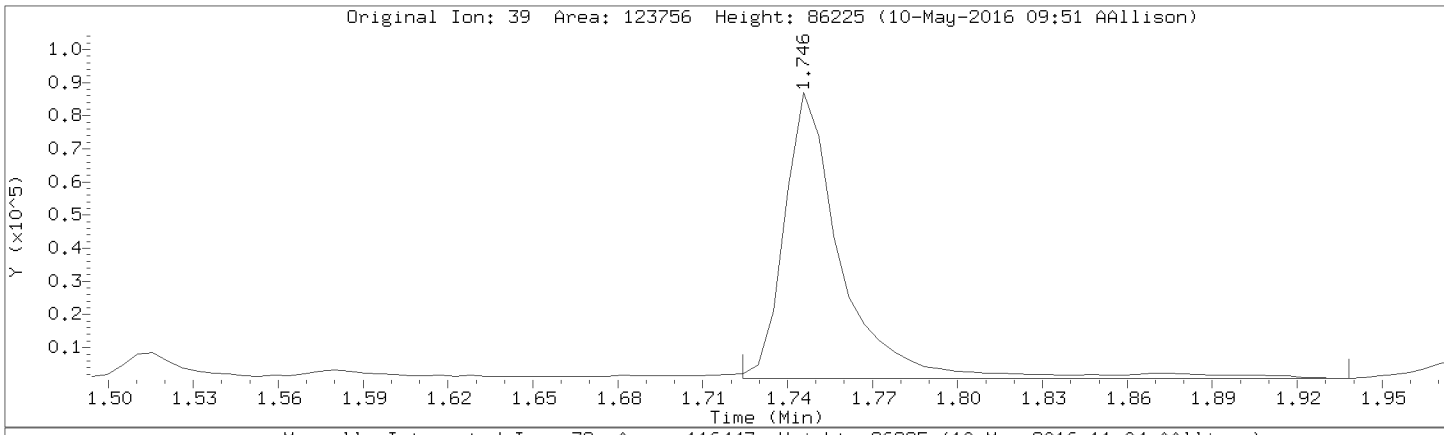


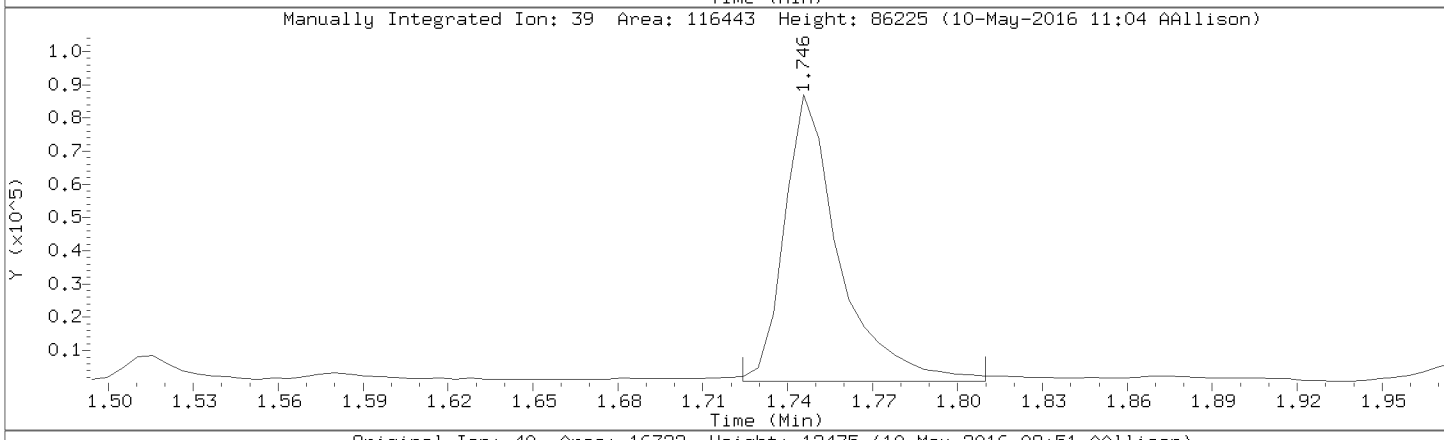


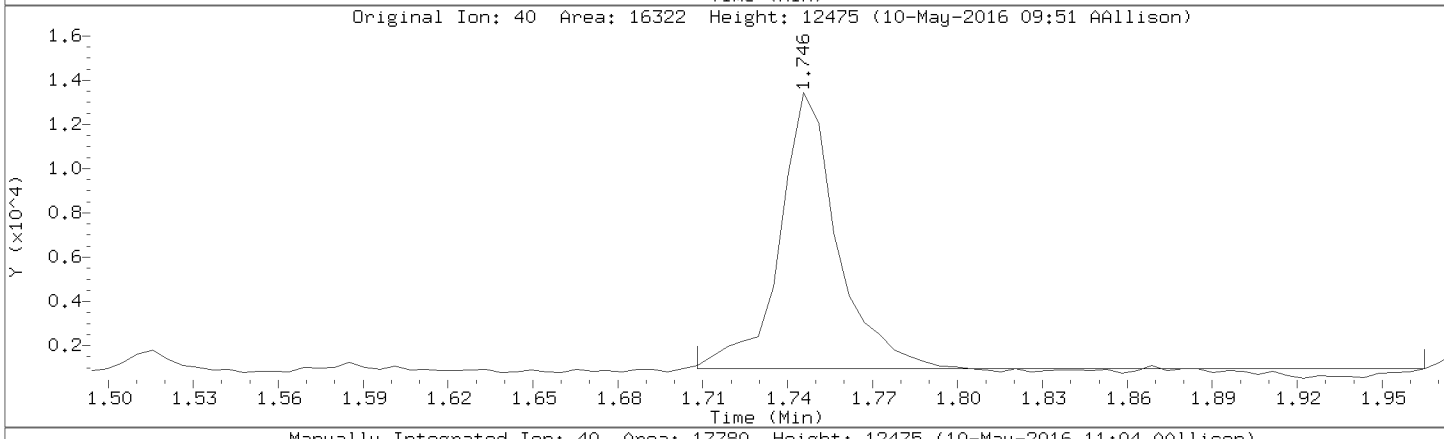


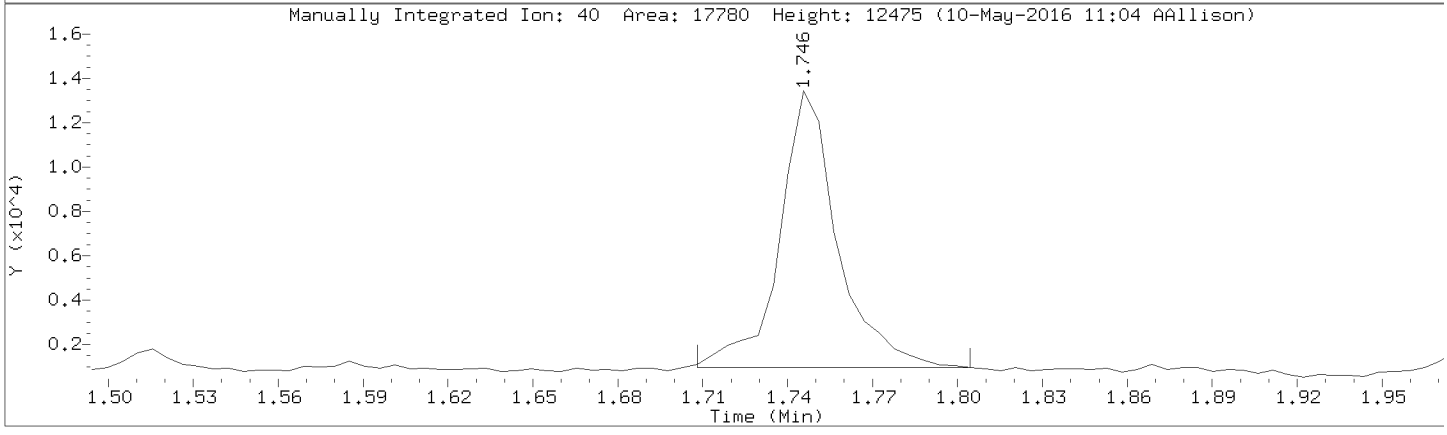
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: Acetonitrile Review Code: GT
CAS Number: 75-05-8

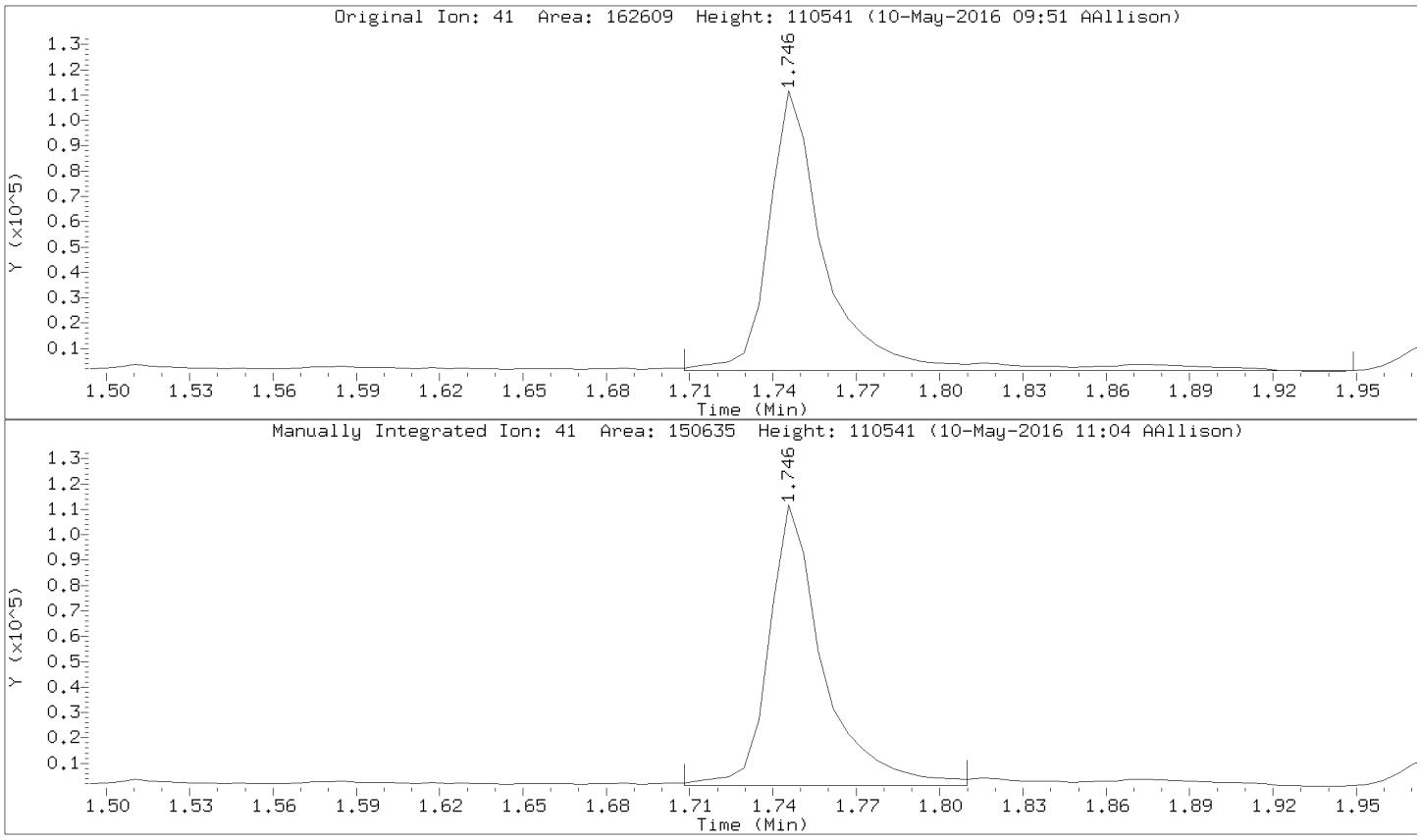






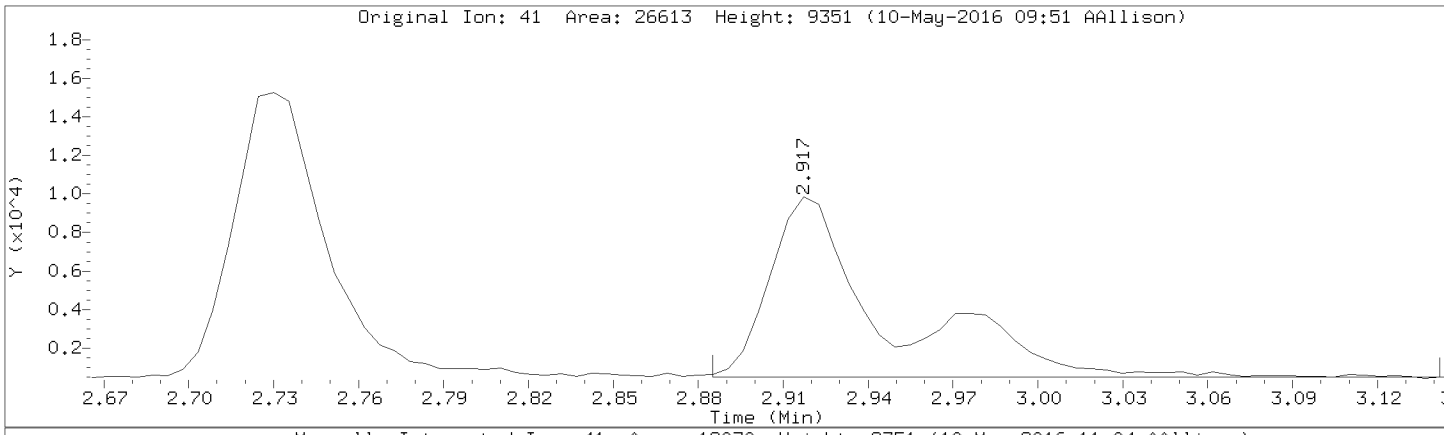


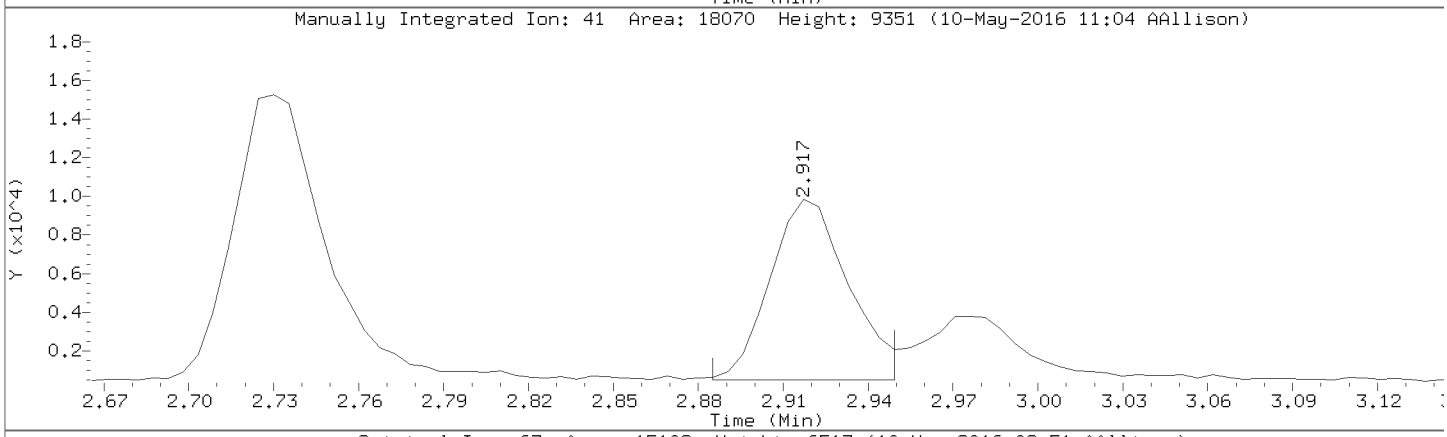
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

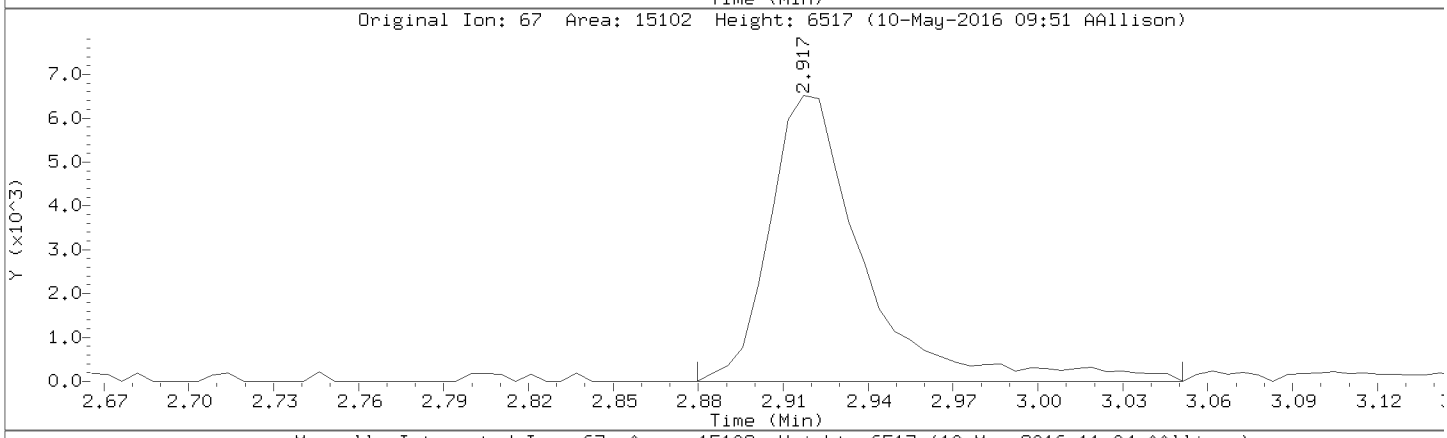


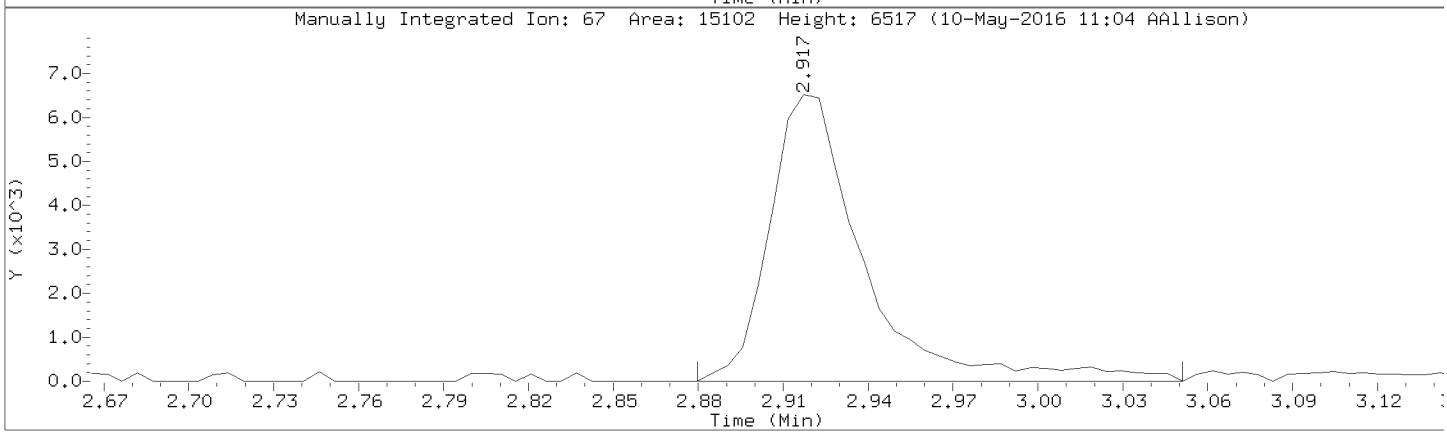
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5

Compound: Methacrylonitrile Review Code: CO
CAS Number: 126-98-7

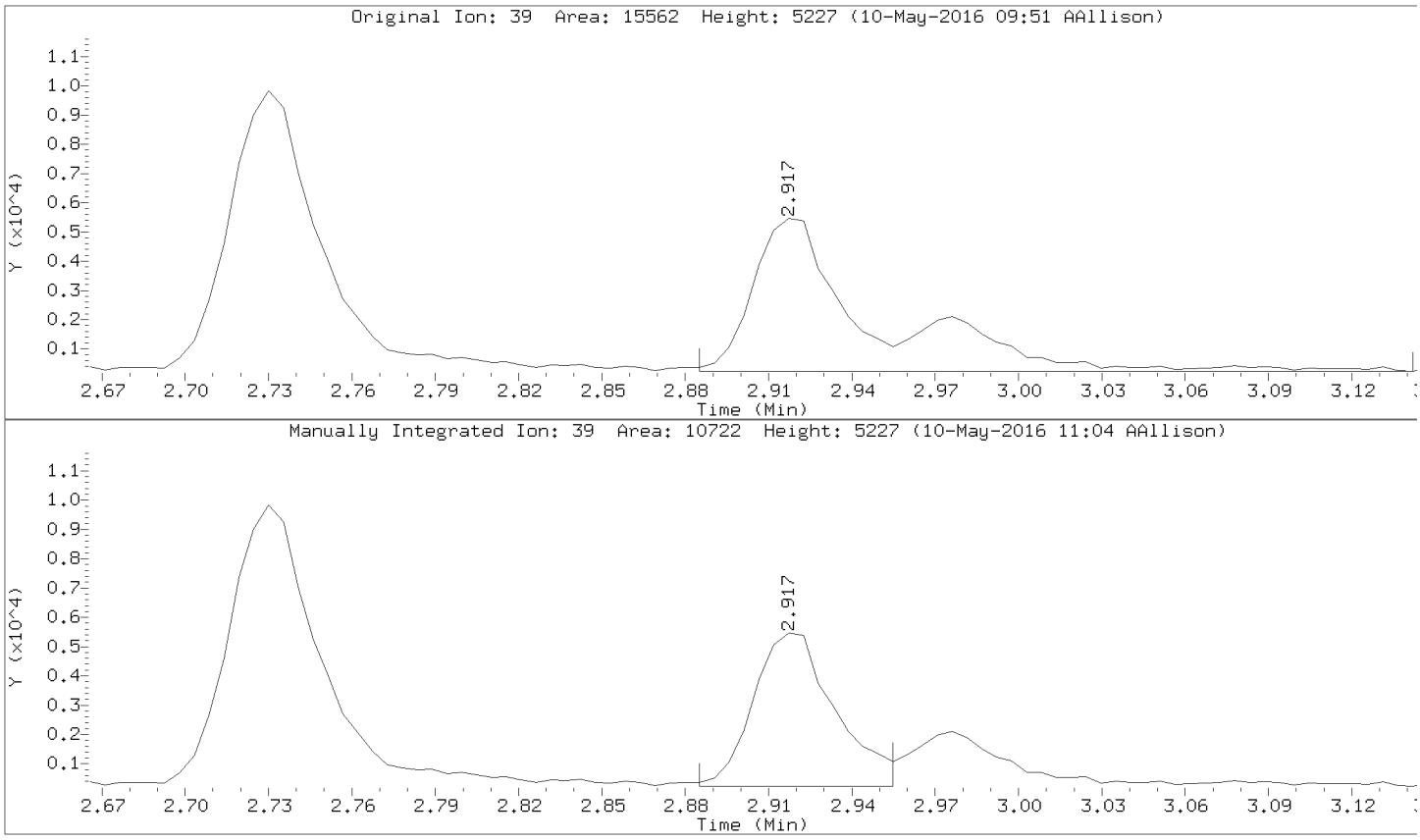








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a05.d
Injection Date: 09-MAY-2016 22:07
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL5



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a06.d
Lab Smp Id: 8260-CAL6 Client Smp ID: 8260-CAL6
Inj Date : 09-MAY-2016 22:45
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal6,121034:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	124238	50.0000	41.4
2	Chloromethane	50	0.991	0.986	(0.246)	81525	50.0000	41.0
3	Vinyl Chloride	62	1.034	1.034	(0.256)	126073	50.0000	41.0
4	Bromomethane	94	1.162	1.168	(0.288)	40100	50.0000	61.2
5	Chloroethane	64	1.210	1.210	(0.300)	80412	50.0000	43.1
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	212956	50.0000	39.6
8	Diethyl ether	74	1.440	1.440	(0.357)	71686	50.0000	44.8
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	175825	50.0000	47.0
9	Acrolein	56	1.510	1.515	(0.374)	266920	1000.00	810
10	1,1,2trichlorotrifluoroethane	101	1.553	1.553	(0.385)	157767	50.0000	46.0
11	1,1-Dichloroethene	96	1.558	1.563	(0.386)	116305	50.0000	45.3
12	Acetone	43	1.579	1.585	(0.392)	169121	250.000	210
13	Iodomethane	142	1.644	1.649	(0.407)	166916	100.000	145
14	Carbon Disulfide	76	1.686	1.686	(0.418)	357789	50.0000	38.6
16	Methyl Acetate	43	1.740	1.734	(0.431)	82808	50.0000	42.8(M)
143	Acetonitrile	39	1.745	1.745	(0.433)	289756	50.0000	44.7
15	allyl chloride	41	1.745	1.745	(0.433)	379968	100.000	96.3
17	Methylene Chloride	84	1.820	1.820	(0.451)	118244	50.0000	38.9
18	tert-Butyl Alcohol	59	1.874	1.873	(0.464)	32862	100.000	79.9(M)
19	Acrylonitrile	53	1.954	1.954	(0.484)	130832	200.000	185
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	278409	50.0000	51.8
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.491)	104936	50.0000	43.1
22	n-Hexane	57	2.146	2.146	(0.532)	151214	50.0000	59.0

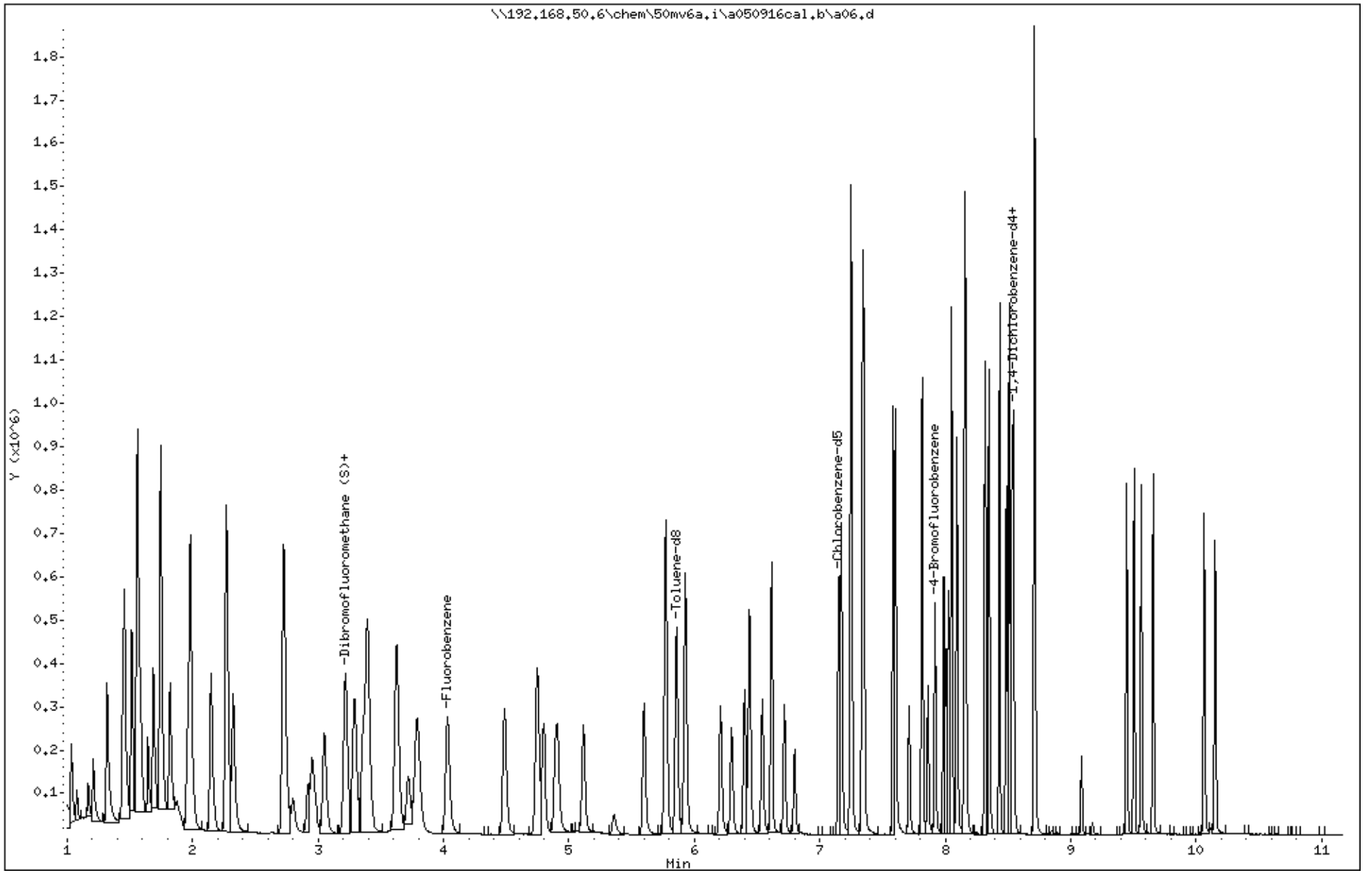
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	24 Vinyl Acetate	43	2.270	2.264	(0.563)	721599	200.000	200
	23 1,1-Dichloroethane	63	2.275	2.275	(0.564)	199566	50.0000	47.5
	147 chloroprene	53	2.323	2.323	(0.576)	146533	50.0000	48.3
	28 2-Butanone	43	2.724	2.724	(0.675)	234712	250.000	207
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.675)	114975	50.0000	45.9
	27 2,2-Dichloropropane	77	2.730	2.730	(0.677)	169179	50.0000	44.6
	149 Propionitrile	54	2.783	2.783	(0.690)	14758	50.0000	45.8(Q)
	144 Methacrylonitrile	41	2.917	2.917	(0.723)	53305	50.0000	48.3(M)
	30 Bromochloromethane	49	2.949	2.949	(0.731)	70431	50.0000	43.3
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	32191	50.0000	41.3
	32 Chloroform	83	3.051	3.056	(0.756)	200907	50.0000	47.1
$	33 Dibromofluoromethane (S)	113	3.216	3.222	(0.797)	95141	50.0000	43.5
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.797)	187579	50.0000	45.1
	35 Cyclohexane	56	3.291	3.291	(0.816)	161825	50.0000	48.4
	150 n-Butyl chloride	56	3.356	3.355	(0.832)	193739	50.0000	51.2
	36 Carbon Tetrachloride	117	3.388	3.393	(0.840)	171167	50.0000	48.1
	37 1,1-Dichloropropene	75	3.393	3.393	(0.841)	151487	50.0000	52.2
	39 Benzene	78	3.628	3.628	(0.899)	383944	50.0000	50.5
	40 1,2-Dichloroethane	62	3.719	3.714	(0.922)	130924	50.0000	46.6
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.939)	360519	50.0000	52.4
	38 Isobutyl alcohol	43	3.789	3.783	(0.939)	70146	50.0000	51.3
*	41 Fluorobenzene	96	4.035	4.035	(1.000)	310426	50.0000	
	42 Trichloroethene	95	4.484	4.490	(1.111)	110024	50.0000	49.5
	43 Methylcyclohexane	55	4.746	4.741	(1.176)	128377	50.0000	53.8
	44 1,2-Dichloropropane	63	4.800	4.794	(1.190)	100761	50.0000	51.0
	45 Dibromomethane	93	4.891	4.896	(1.212)	69612	50.0000	46.3
	142 1,4-Dioxane	88	4.907	4.907	(1.216)	24906	1000.00	964
	46 Methyl methacrylate	69	4.912	4.912	(1.217)	65127	50.0000	54.7
	47 Bromodichloromethane	83	5.116	5.115	(1.268)	152226	50.0000	49.0
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	162741	50.0000	55.0
	50 4-Methyl-2-Pentanone	43	5.774	5.773	(0.807)	449112	250.000	276
$	51 Toluene-d8	98	5.859	5.859	(0.819)	283723	50.0000	51.0
	52 Toluene	91	5.929	5.929	(0.829)	394645	50.0000	50.8
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	146638	50.0000	56.4
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	109525	50.0000	54.2
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	75019	50.0000	53.4
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	120133	50.0000	55.8
	57 1,3-Dichloropropane	76	6.539	6.544	(0.914)	139141	50.0000	56.5
	58 2-Hexanone	43	6.613	6.613	(0.924)	315052	250.000	264
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	114296	50.0000	55.8
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	90898	50.0000	55.5
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	212214	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	255477	50.0000	52.6
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	104647	50.0000	59.2
	64 Ethylbenzene	106	7.250	7.255	(1.013)	130537	50.0000	50.7
	65 m&p-Xylene	106	7.346	7.346	(1.027)	320521	100.000	100
	67 o-Xylene	106	7.587	7.592	(1.061)	154487	50.0000	49.7
	68 Styrene	104	7.603	7.608	(1.063)	265393	50.0000	50.3
	69 Bromoform	173	7.716	7.710	(0.904)	86677	50.0000	54.3
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	410219	50.0000	49.8
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	97571	50.0000	47.6
	74 Bromobenzene	77	7.983	7.983	(1.116)	147706	50.0000	49.4
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	113931	50.0000	53.4
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	30820	50.0000	49.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	30670	50.0000	52.3
76	n-Propylbenzene	91	8.053	8.052	(0.944)	496916	50.0000	53.0
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	273418	50.0000	50.5
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	308382	50.0000	52.3
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	102681	50.0000	50.9
80	tert-Butylbenzene	119	8.315	8.315	(0.974)	349595	50.0000	52.6(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	297204	50.0000	50.1
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	434424	50.0000	52.8
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	188887	50.0000	50.3
84	p-Isopropyltoluene	119	8.513	8.513	(0.997)	350607	50.0000	52.6
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	112617	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	196887	50.0000	50.3
87	n-Butylbenzene	91	8.711	8.710	(1.021)	323458	50.0000	49.4
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	187353	50.0000	52.3
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	21428	50.0000	48.0
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	132164	50.0000	49.8
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	79460	50.0000	50.0
92	Naphthalene	128	9.561	9.566	(1.120)	335918	50.0000	45.1
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	130250	50.0000	49.6
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	196799	50.0000	48.2
148	1-Methylnaphthalene	141	10.150	10.155	(1.189)	168772	50.0000	47.6

QC Flag Legend

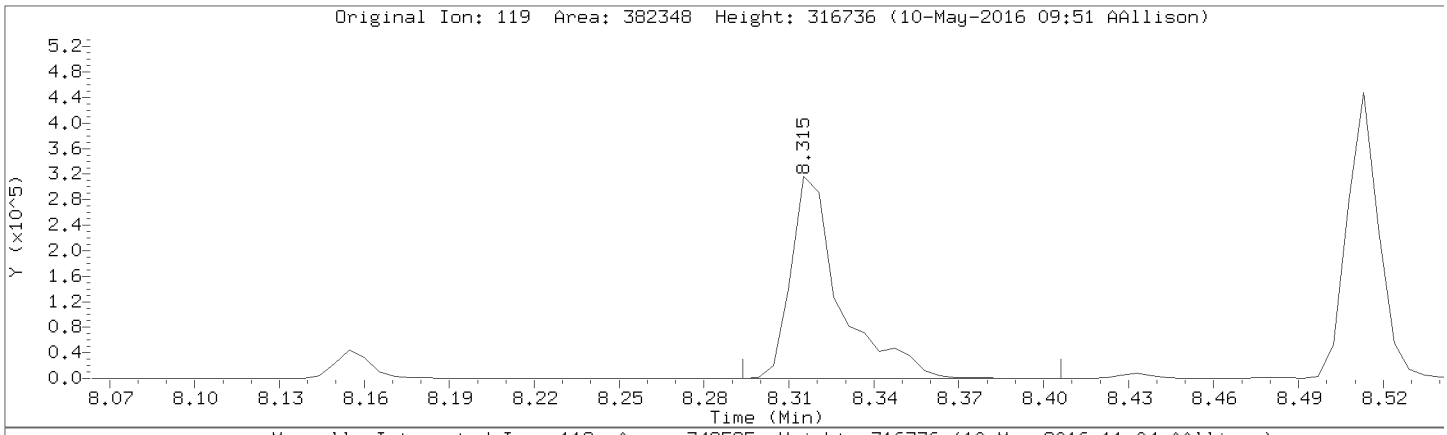
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

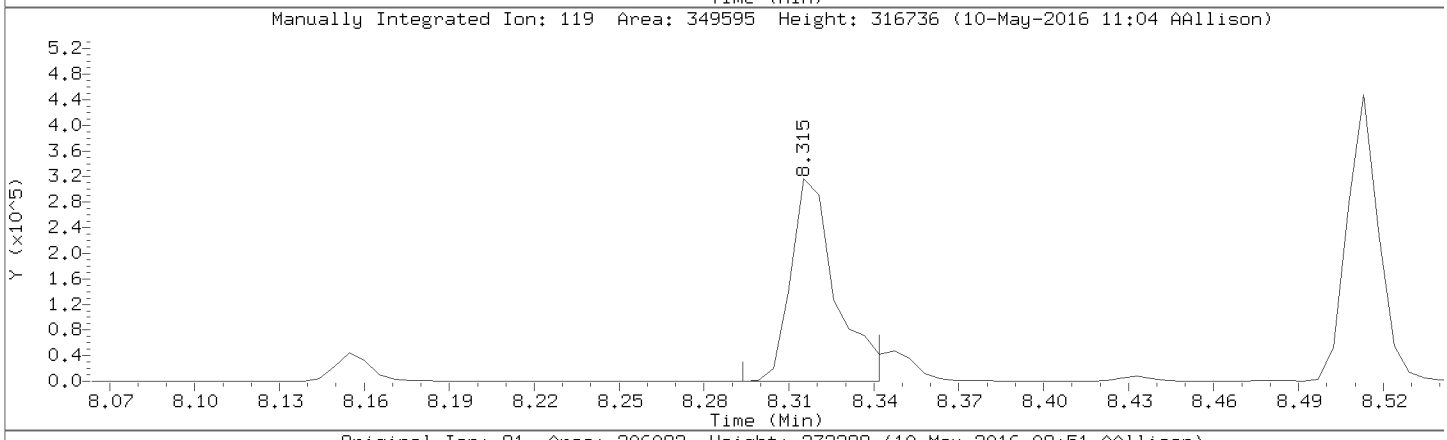
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a06.d
Date : 09-MAY-2016 22:45
Client ID: 8260-CAL6
Instrument: 50mv6a.i
Sample Info: 8260-CAL6,121034:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

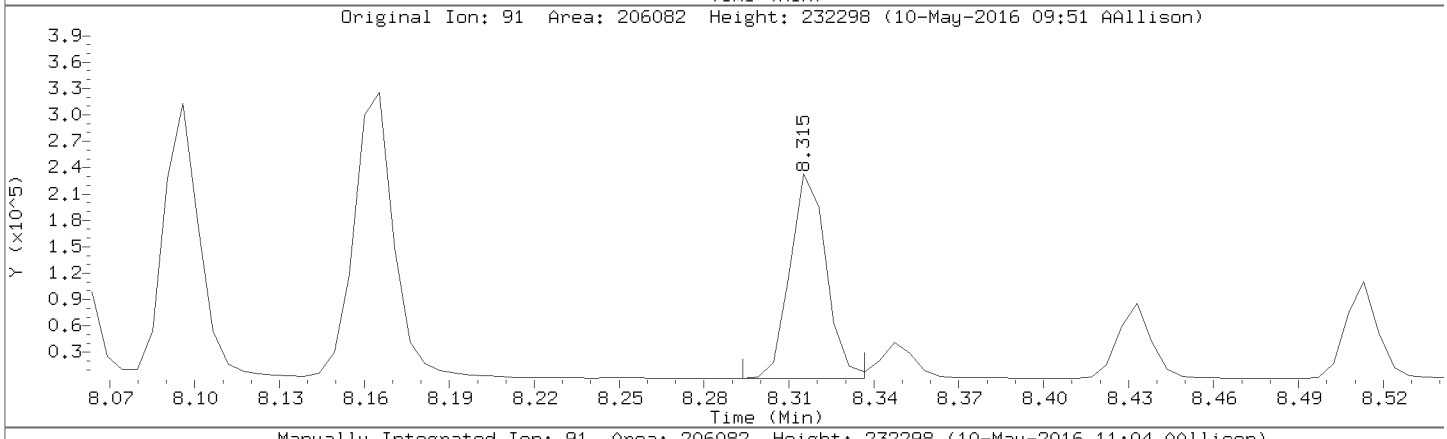


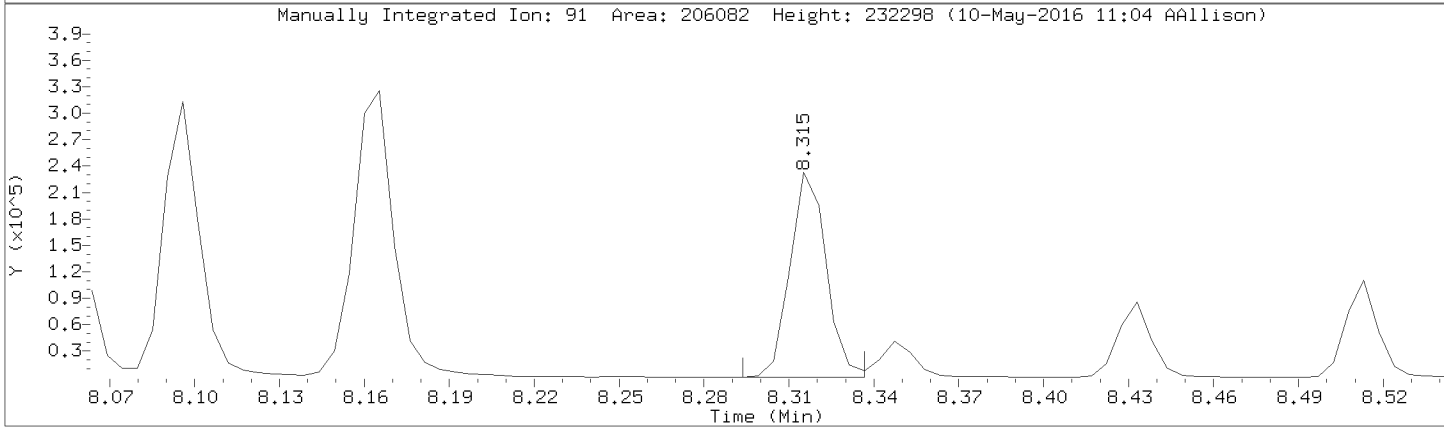
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

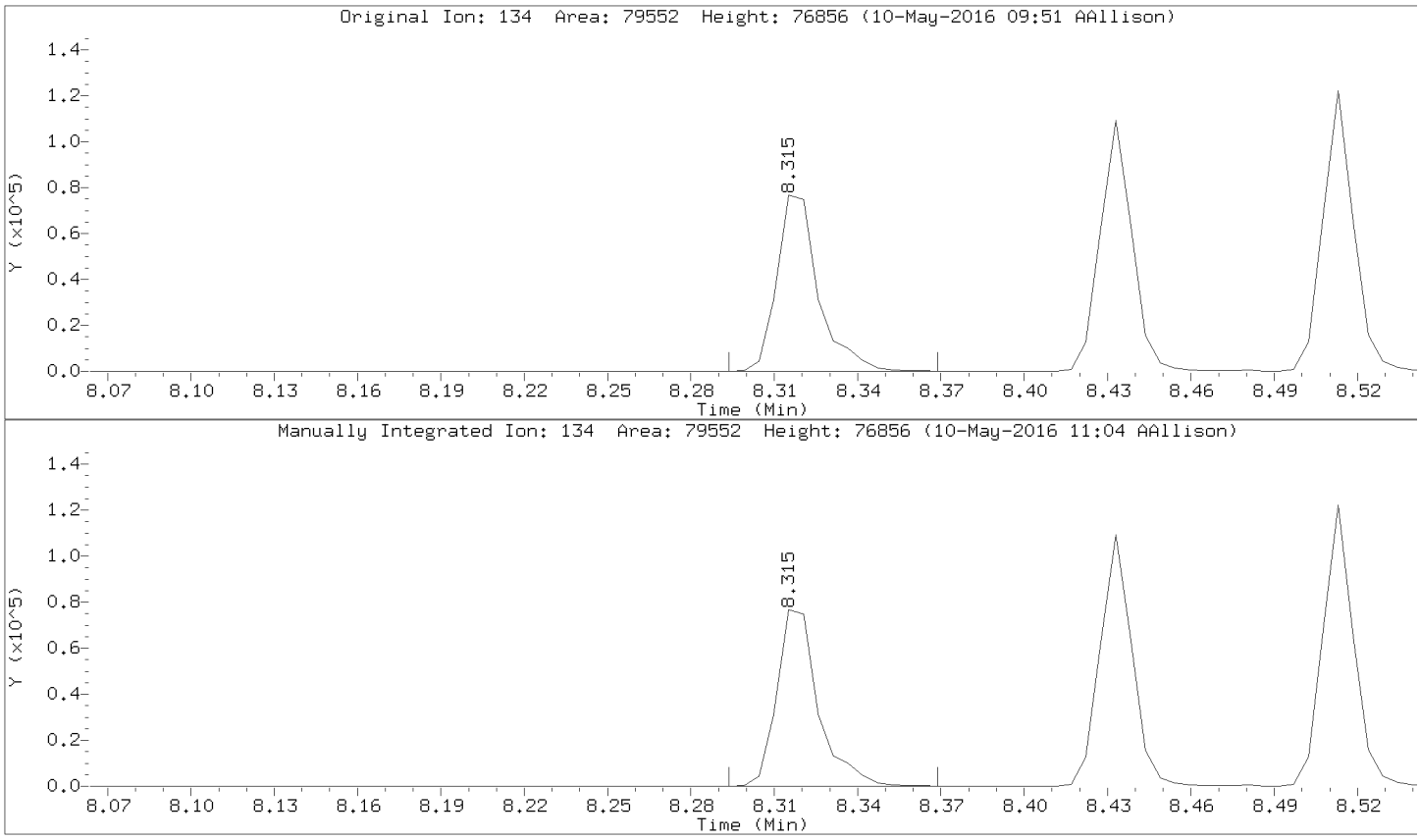






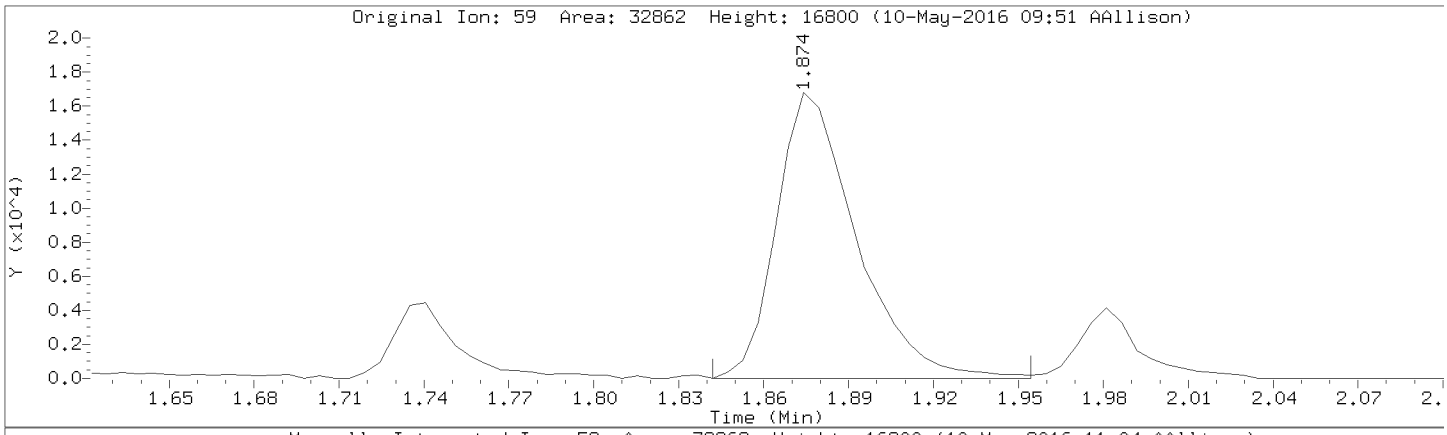


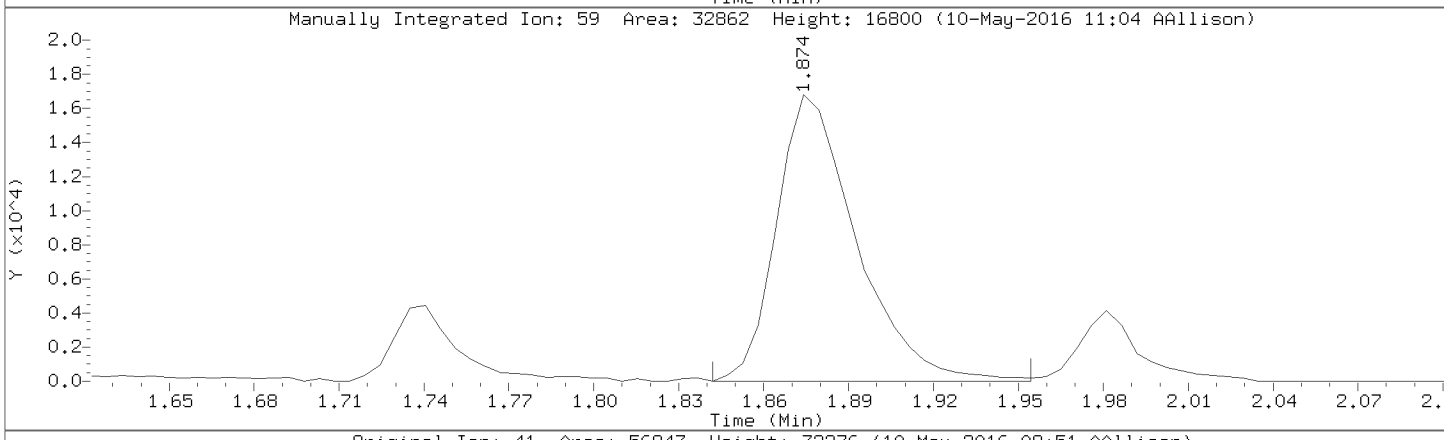
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6

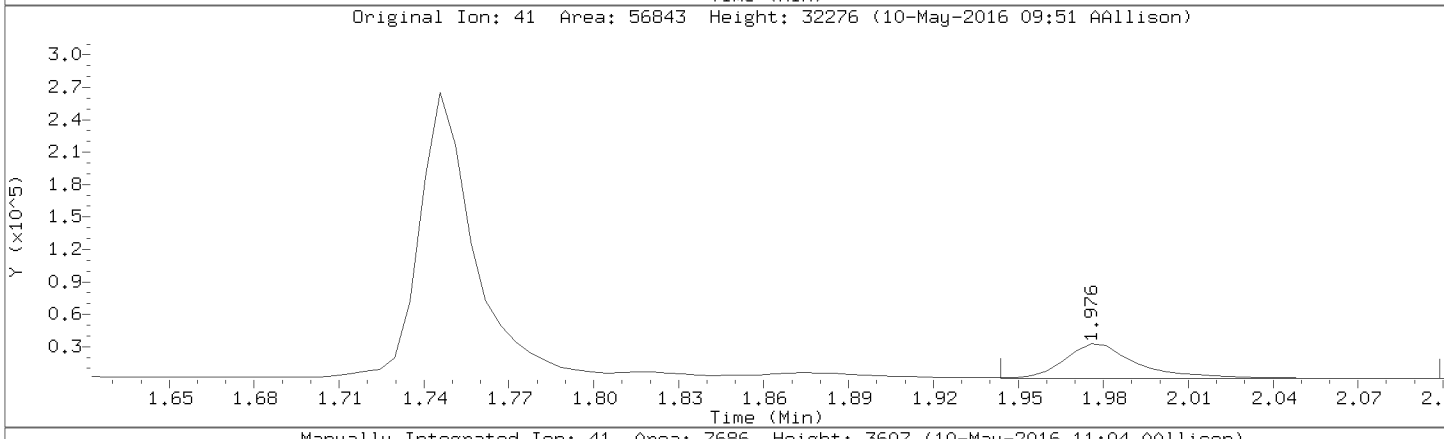


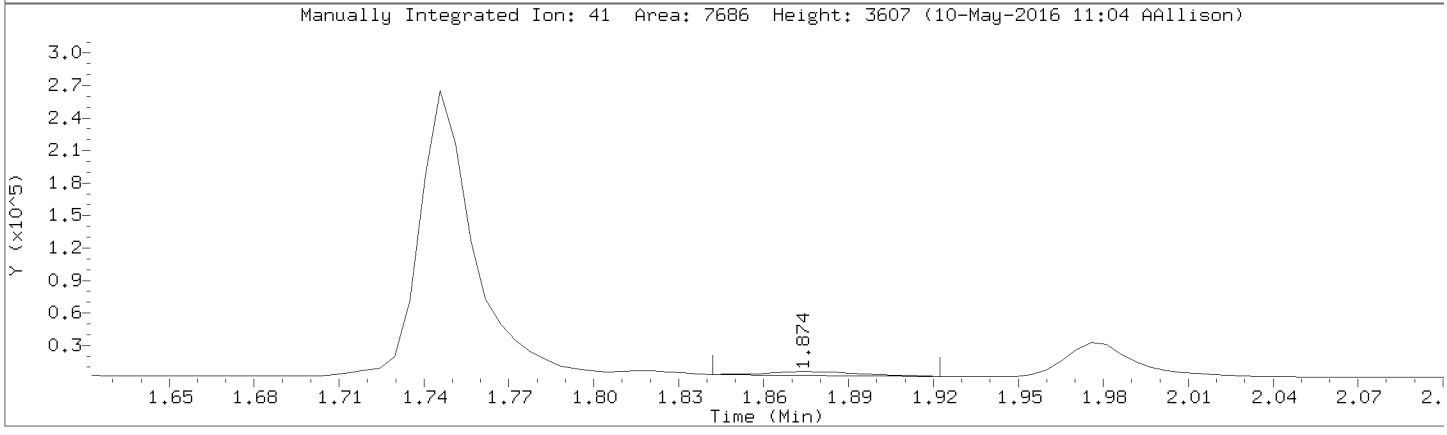
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



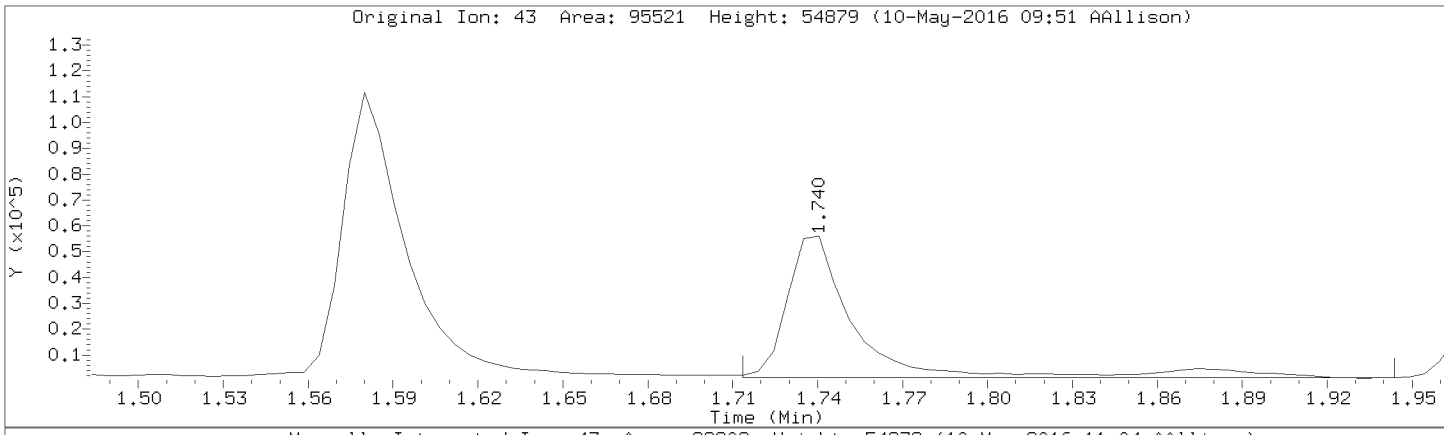


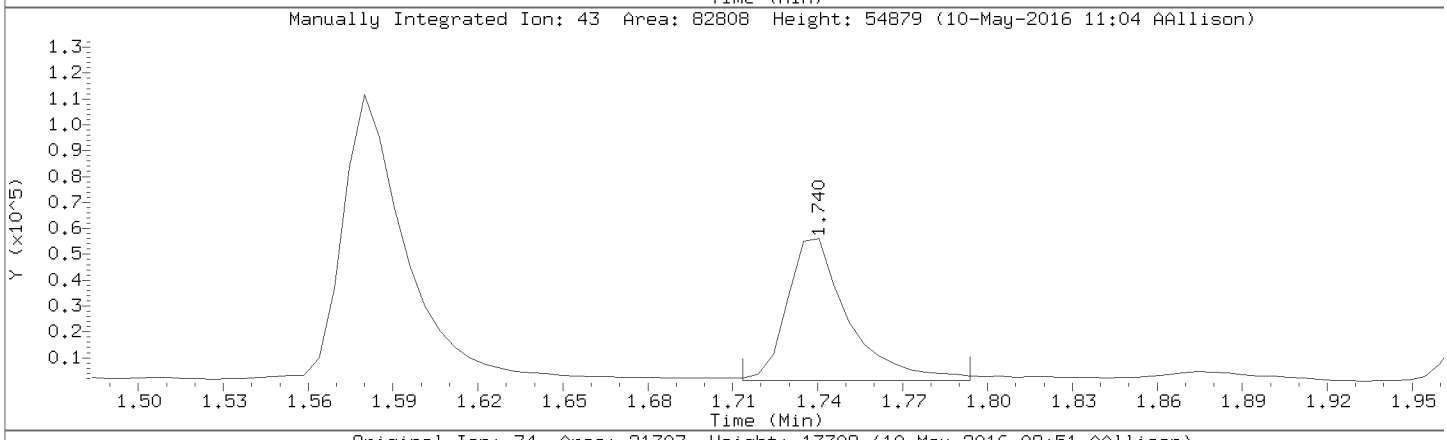


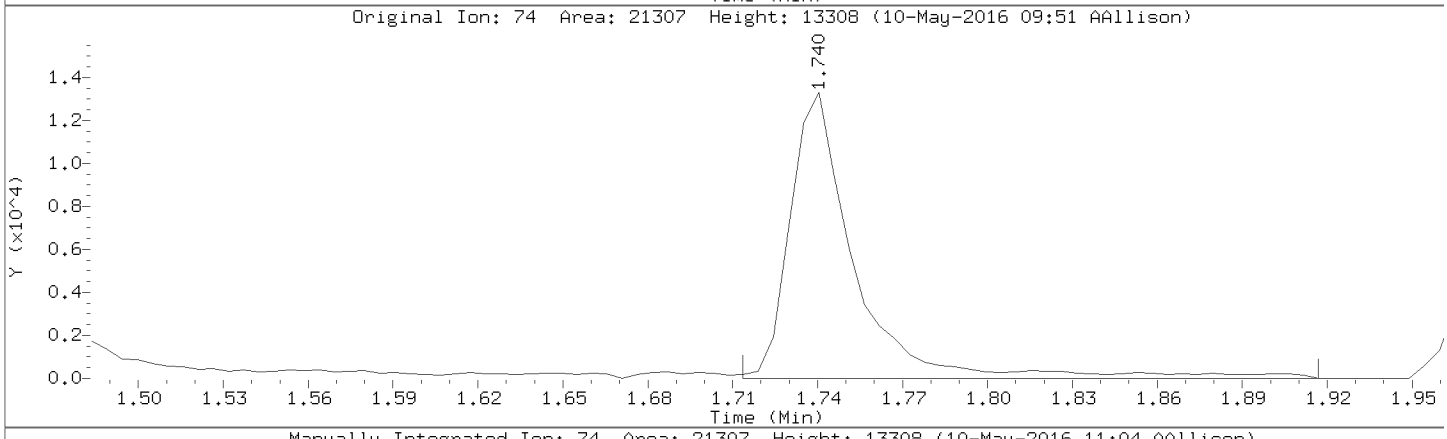


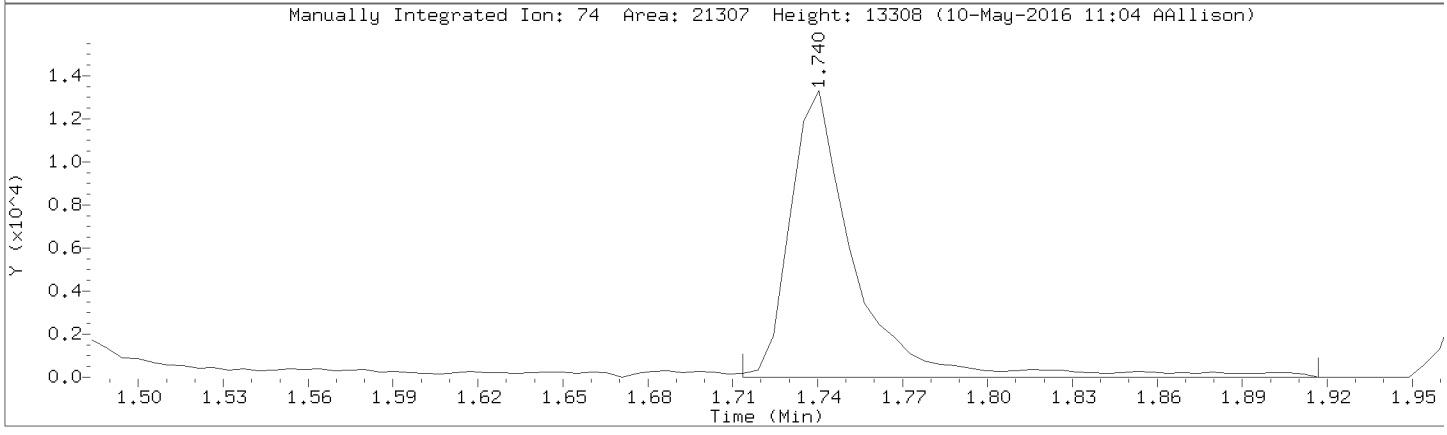
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6

Compound: Methyl Acetate Review Code: GT
CAS Number: 79-20-9



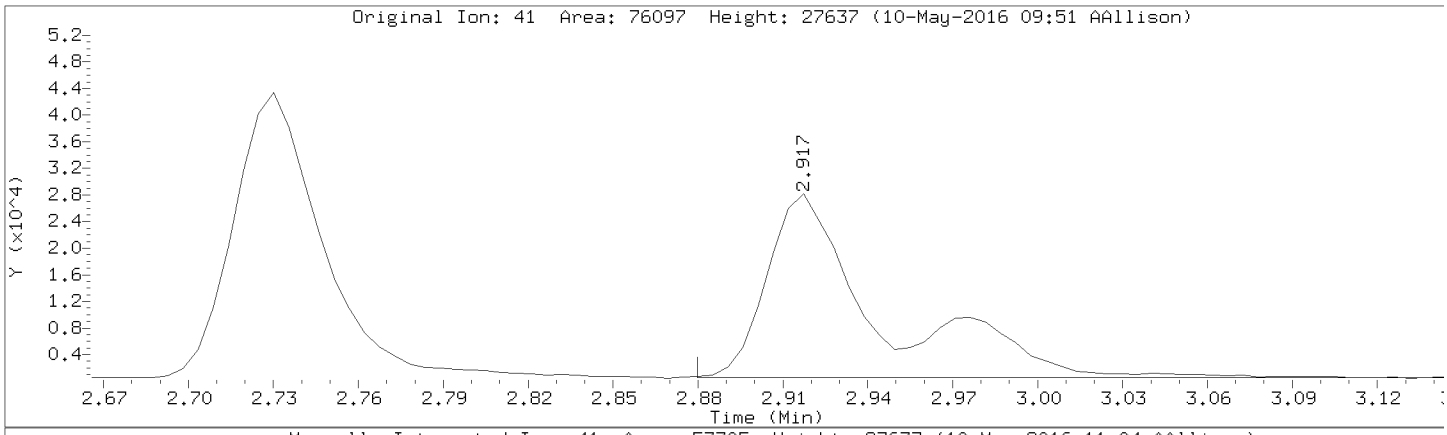


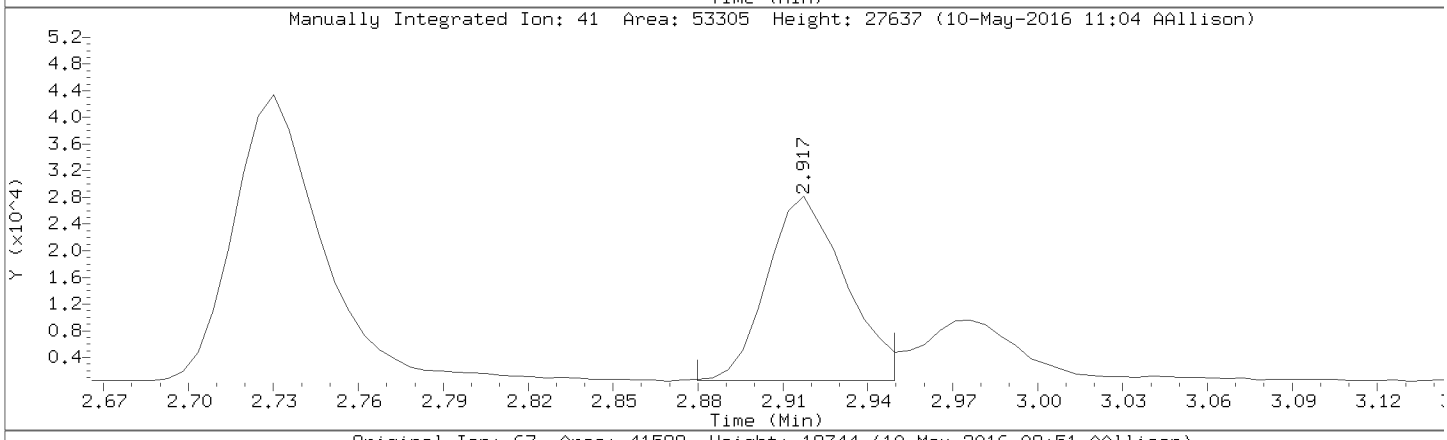


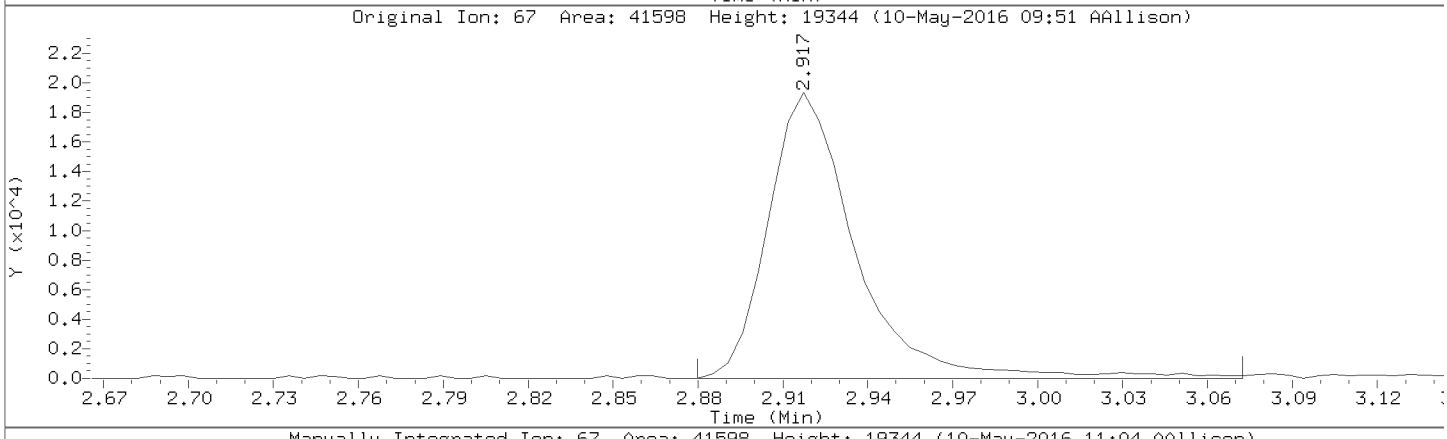


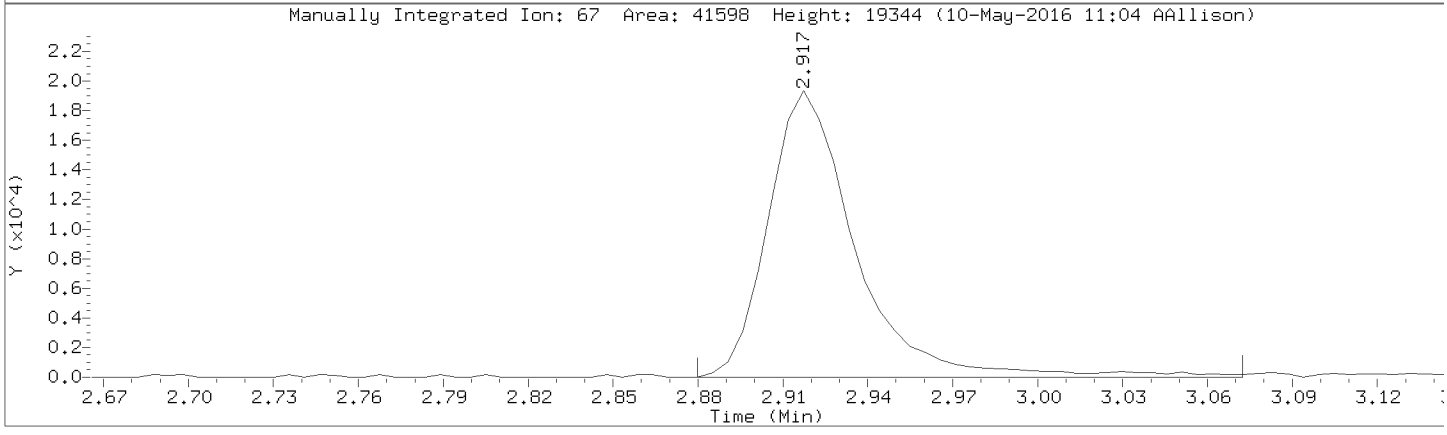
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6

Compound: Methacrylonitrile Review Code: CO
CAS Number: 126-98-7

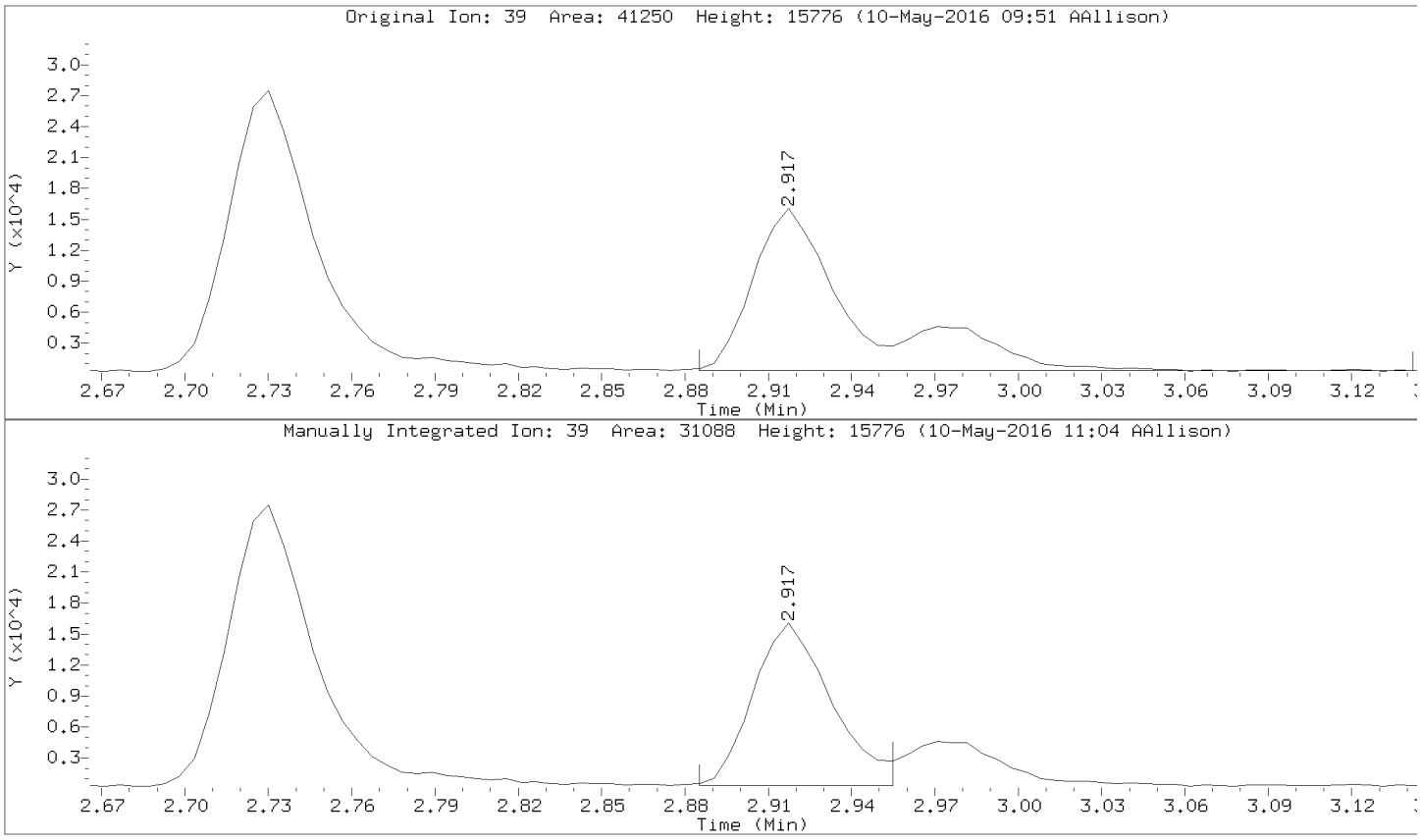








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a06.d
Injection Date: 09-MAY-2016 22:45
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL6



Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a07.d
Lab Smp Id: 8260-CAL7 Client Smp ID: 8260-CAL7
Inj Date : 09-MAY-2016 23:22
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal7,121035:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1 Dichlorodifluoromethane	85	0.911	0.911	(0.226)	342778	150.000	111
2 Chloromethane	50	0.985	0.986	(0.245)	279249	150.000	137
3 Vinyl Chloride	62	1.028	1.034	(0.255)	350396	150.000	111
4 Bromomethane	94	1.157	1.168	(0.287)	66692	150.000	99.1(M)
5 Chloroethane	64	1.199	1.210	(0.298)	186411	150.000	97.4
6 Trichlorofluoromethane	101	1.312	1.317	(0.326)	578461	150.000	105
8 Diethyl ether	74	1.440	1.440	(0.357)	217650	150.000	132
7 1,2-dichlorotrifluoroethane	67	1.451	1.456	(0.360)	488977	150.000	127
9 Acrolein	56	1.515	1.515	(0.376)	790220	3000.00	2340
10 1,1,2trichlorotrifluoroethane	101	1.547	1.553	(0.384)	469143	150.000	133
11 1,1-Dichloroethene	96	1.558	1.563	(0.387)	328239	150.000	124
12 Acetone	43	1.579	1.585	(0.392)	512883	750.000	620
13 Iodomethane	142	1.638	1.649	(0.407)	419590	300.000	355(M)
14 Carbon Disulfide	76	1.686	1.686	(0.419)	1036479	150.000	109
16 Methyl Acetate	43	1.740	1.734	(0.432)	242413	150.000	122
143 Acetonitrile	39	1.745	1.745	(0.433)	652881	150.000	98.2
15 allyl chloride	41	1.745	1.745	(0.433)	860204	300.000	212
17 Methylene Chloride	84	1.815	1.820	(0.450)	350875	150.000	112
18 tert-Butyl Alcohol	59	1.884	1.873	(0.468)	94055	300.000	223
19 Acrylonitrile	53	1.959	1.954	(0.486)	421120	600.000	580
20 Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	930978	150.000	168
21 1,2-Dichloroethene (trans)	96	1.975	1.981	(0.490)	332544	150.000	133
22 n-Hexane	57	2.146	2.146	(0.533)	490110	150.000	186

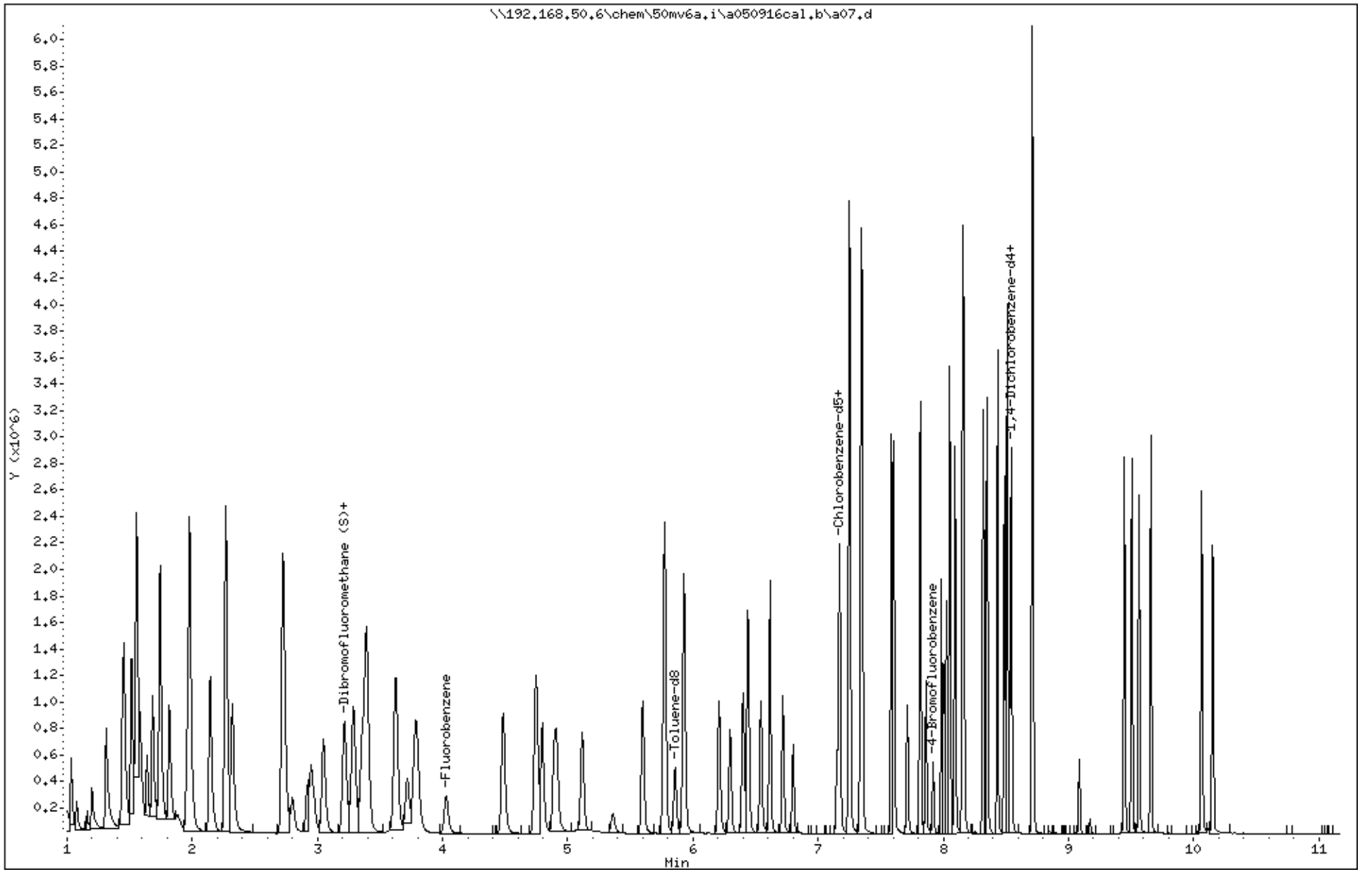
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.269	2.264	(0.563)	2274586	600.000	615
	23 1,1-Dichloroethane	63	2.269	2.275	(0.563)	614219	150.000	142
	147 chloroprene	53	2.317	2.323	(0.575)	459136	150.000	147
	28 2-Butanone	43	2.724	2.724	(0.676)	764666	750.000	656
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	356218	150.000	138
	27 2,2-Dichloropropane	77	2.729	2.730	(0.677)	521012	150.000	134
	149 Propionitrile	54	2.783	2.783	(0.691)	45726	150.000	138(Q)
	144 Methacrylonitrile	41	2.917	2.917	(0.724)	179706	150.000	159
	30 Bromochloromethane	49	2.949	2.949	(0.732)	201591	150.000	121
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	101600	150.000	127
	32 Chloroform	83	3.050	3.056	(0.757)	608885	150.000	139
$	33 Dibromofluoromethane (S)	113	3.216	3.222	(0.798)	95590	50.0000	42.6
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.798)	563652	150.000	132
	35 Cyclohexane	56	3.286	3.291	(0.815)	480039	150.000	140
	150 n-Butyl chloride	56	3.355	3.355	(0.833)	600545	150.000	155
	36 Carbon Tetrachloride	117	3.382	3.393	(0.839)	519216	150.000	142
	37 1,1-Dichloropropene	75	3.393	3.393	(0.842)	469788	150.000	158
	39 Benzene	78	3.628	3.628	(0.900)	1191771	150.000	153
	40 1,2-Dichloroethane	62	3.714	3.714	(0.922)	404713	150.000	140
	141 2,2,4-Trimethylpentane	57	3.783	3.789	(0.939)	1158458	150.000	164
	38 Isobutyl alcohol	43	3.783	3.783	(0.939)	220096	150.000	157
*	41 Fluorobenzene	96	4.029	4.035	(1.000)	318782	50.0000	
	42 Trichloroethene	95	4.484	4.490	(1.113)	337676	150.000	148
	43 Methylcyclohexane	55	4.741	4.741	(1.177)	405327	150.000	165
	44 1,2-Dichloropropane	63	4.794	4.794	(1.190)	313621	150.000	154
	45 Dibromomethane	93	4.891	4.896	(1.214)	219304	150.000	142
	142 1,4-Dioxane	88	4.912	4.907	(1.219)	81315	3000.00	3060
	46 Methyl methacrylate	69	4.912	4.912	(1.219)	207115	150.000	169
	47 Bromodichloromethane	83	5.115	5.115	(1.269)	468930	150.000	147
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	523995	150.000	175
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	1480859	750.000	900
$	51 Toluene-d8	98	5.859	5.859	(0.819)	293138	50.0000	52.1
	52 Toluene	91	5.929	5.929	(0.829)	1242894	150.000	158
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	478056	150.000	182
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	340972	150.000	167
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	242047	150.000	170
	56 Tetrachloroethene	166	6.437	6.437	(0.900)	393613	150.000	180
	57 1,3-Dichloropropane	76	6.544	6.544	(0.915)	447501	150.000	180
	58 2-Hexanone	43	6.613	6.613	(0.924)	980944	750.000	812
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	363383	150.000	175
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	290458	150.000	175
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	214738	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	790812	150.000	161
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	338760	150.000	190
	64 Ethylbenzene	106	7.255	7.255	(1.014)	408200	150.000	157
	65 m&p-Xylene	106	7.346	7.346	(1.027)	979891	300.000	304
	67 o-Xylene	106	7.587	7.592	(1.061)	467130	150.000	149
	68 Styrene	104	7.603	7.608	(1.063)	808553	150.000	151
	69 Bromoform	173	7.715	7.710	(0.904)	273599	150.000	178
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	1210136	150.000	145
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	92931	50.0000	44.8
	74 Bromobenzene	77	7.983	7.983	(1.116)	441046	150.000	146
	73 1,1,2,2-Tetrachloroethane	83	8.010	8.004	(0.939)	345284	150.000	168
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	85567	150.000	134(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	92702	150.000	164	
76	n-Propylbenzene	91	8.052	8.052	(0.944)	1449147	150.000	160	
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	817627	150.000	157	
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	985143	150.000	173	
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	305154	150.000	157	
80	tert-Butylbenzene	119	8.320	8.315	(0.975)	1019009	150.000	159	(M)
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	938930	150.000	164	
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	1241878	150.000	157	
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	570888	150.000	158	
84	p-Isopropyltoluene	119	8.512	8.513	(0.997)	1051333	150.000	164	
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	108561	50.0000		(Q)
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	584309	150.000	155	
87	n-Butylbenzene	91	8.710	8.710	(1.021)	1032759	150.000	164	
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	570875	150.000	165	
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	66910	150.000	155	
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	443255	150.000	173	
91	Hexachlorobutadiene	225	9.507	9.508	(1.114)	267824	150.000	175	
92	Naphthalene	128	9.566	9.566	(1.121)	1091859	150.000	152	
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	450905	150.000	178	
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	669141	150.000	170	
148	1-Methylnaphthalene	141	10.149	10.155	(1.189)	547081	150.000	160	

QC Flag Legend

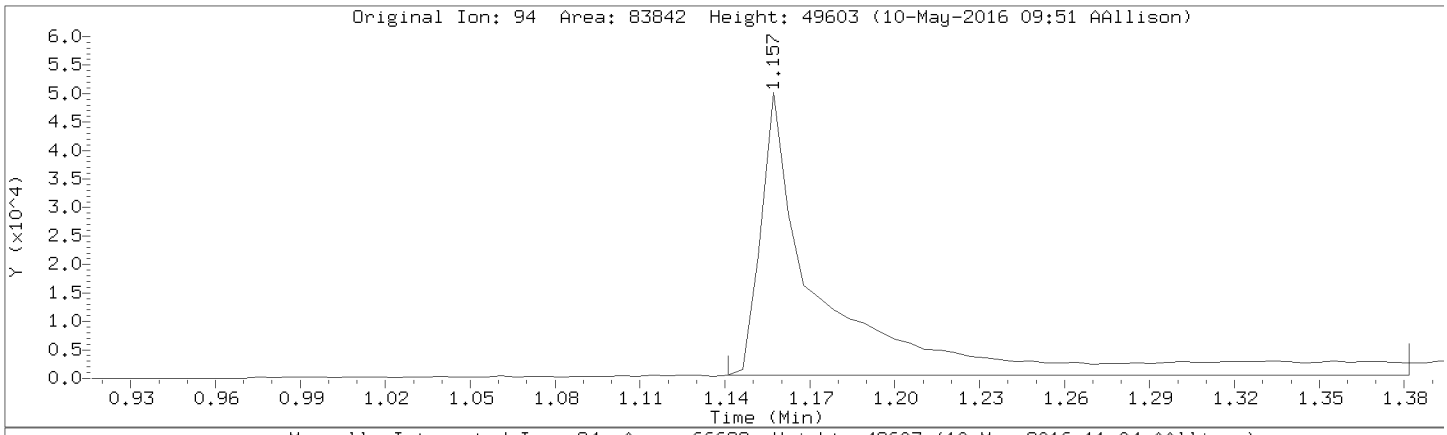
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

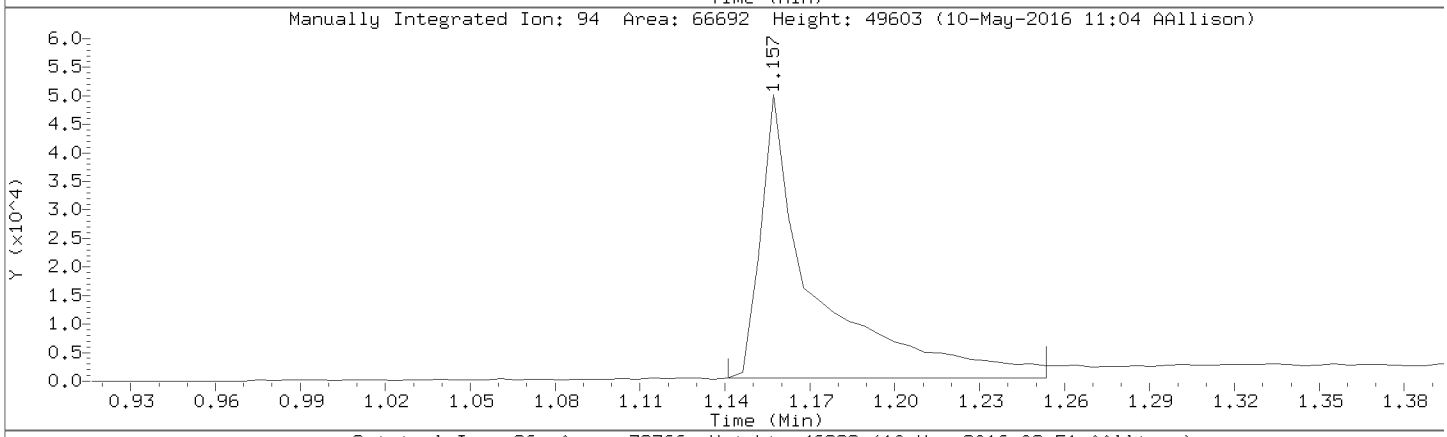
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a07.d
Date : 09-MAY-2016 23:22
Client ID: 8260-CAL7
Instrument: 50mv6a.i
Sample Info: 8260-CAL7,121035:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

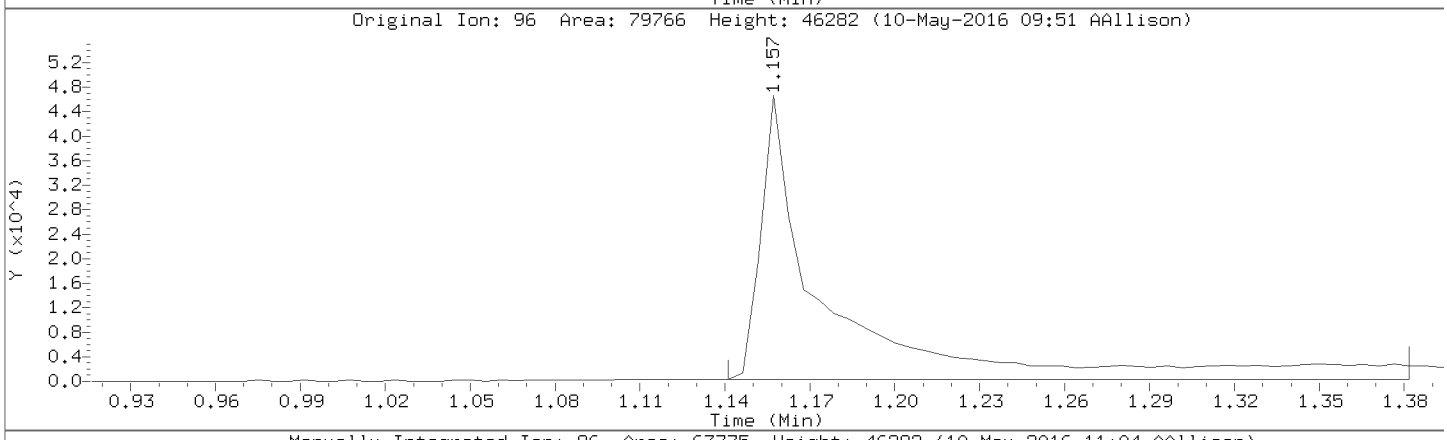


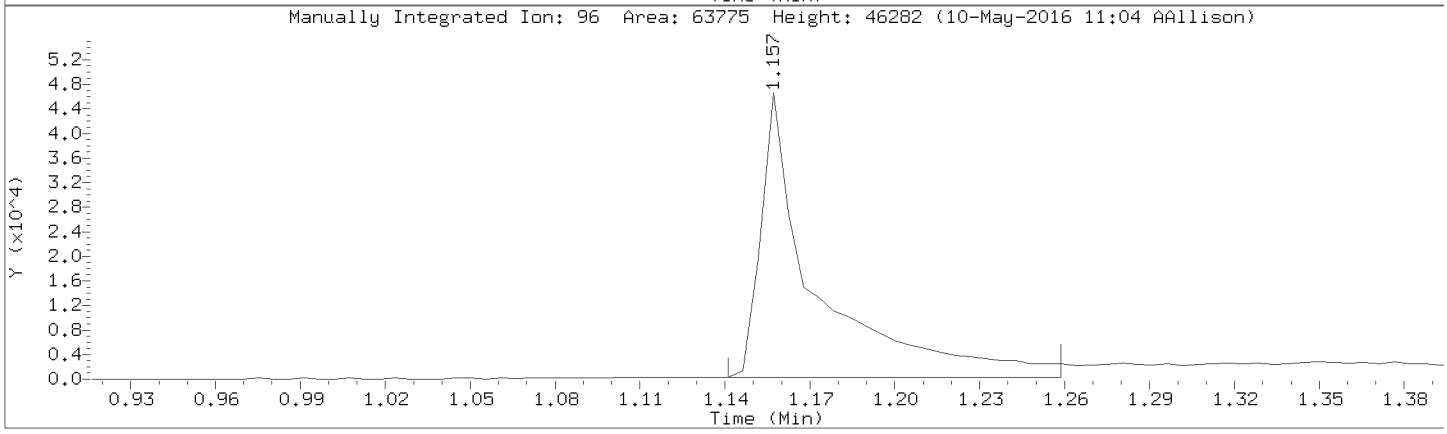
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a07.d
Injection Date: 09-MAY-2016 23:22
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL7

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



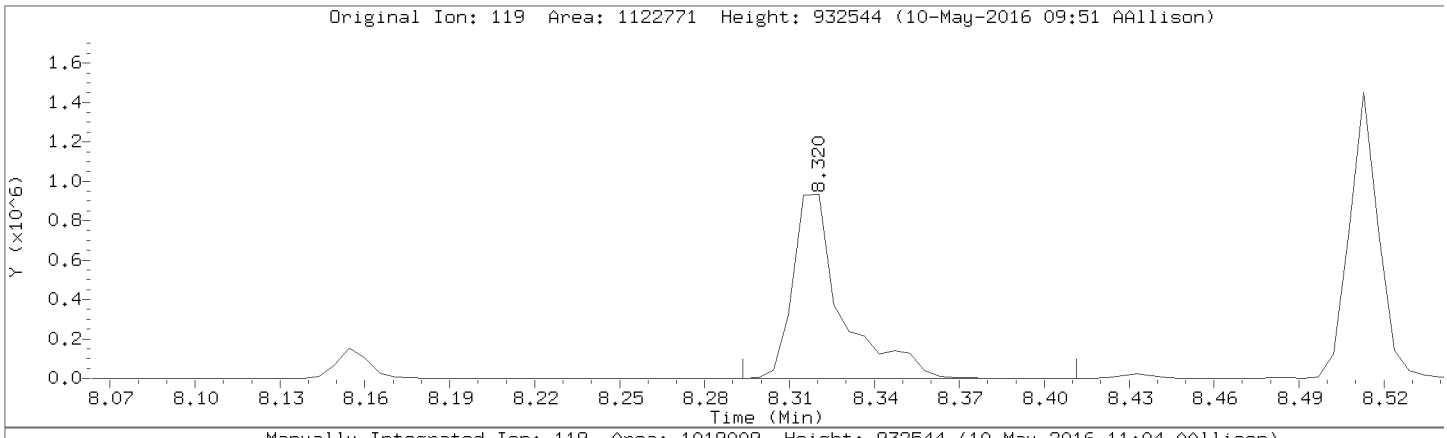


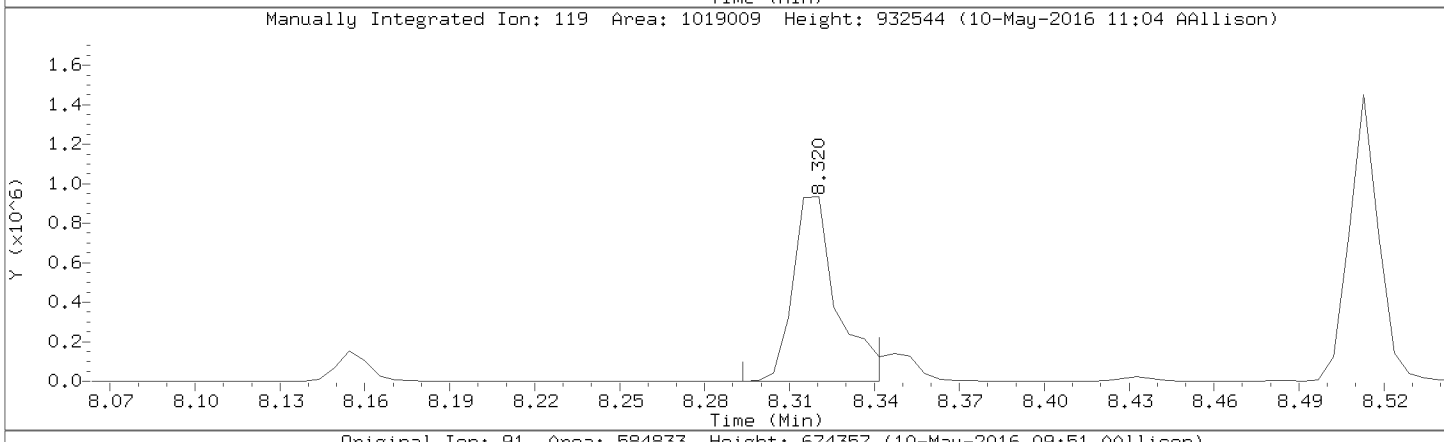


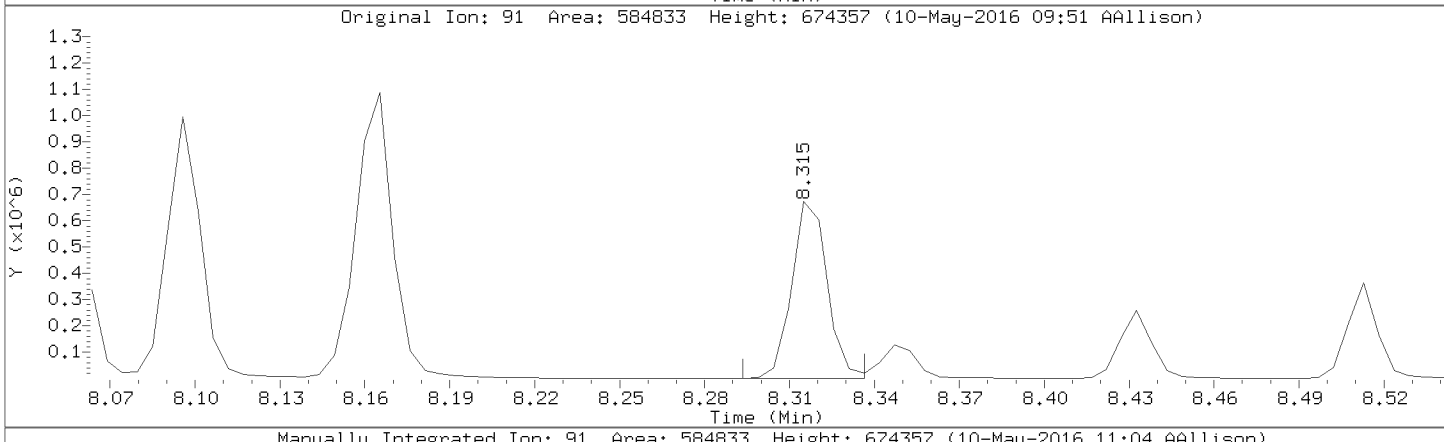


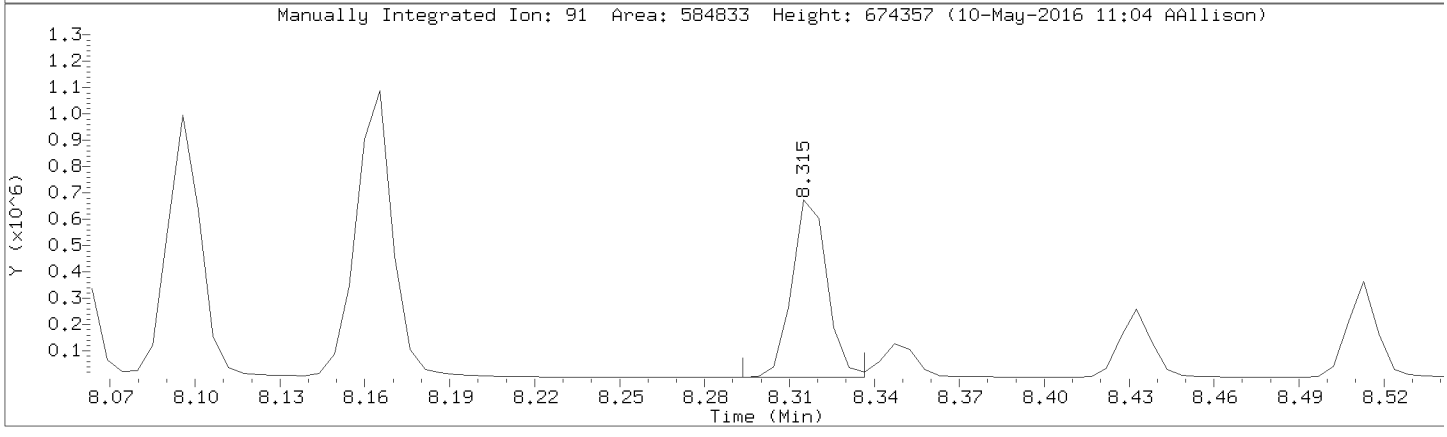
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a07.d
Injection Date: 09-MAY-2016 23:22
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL7

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

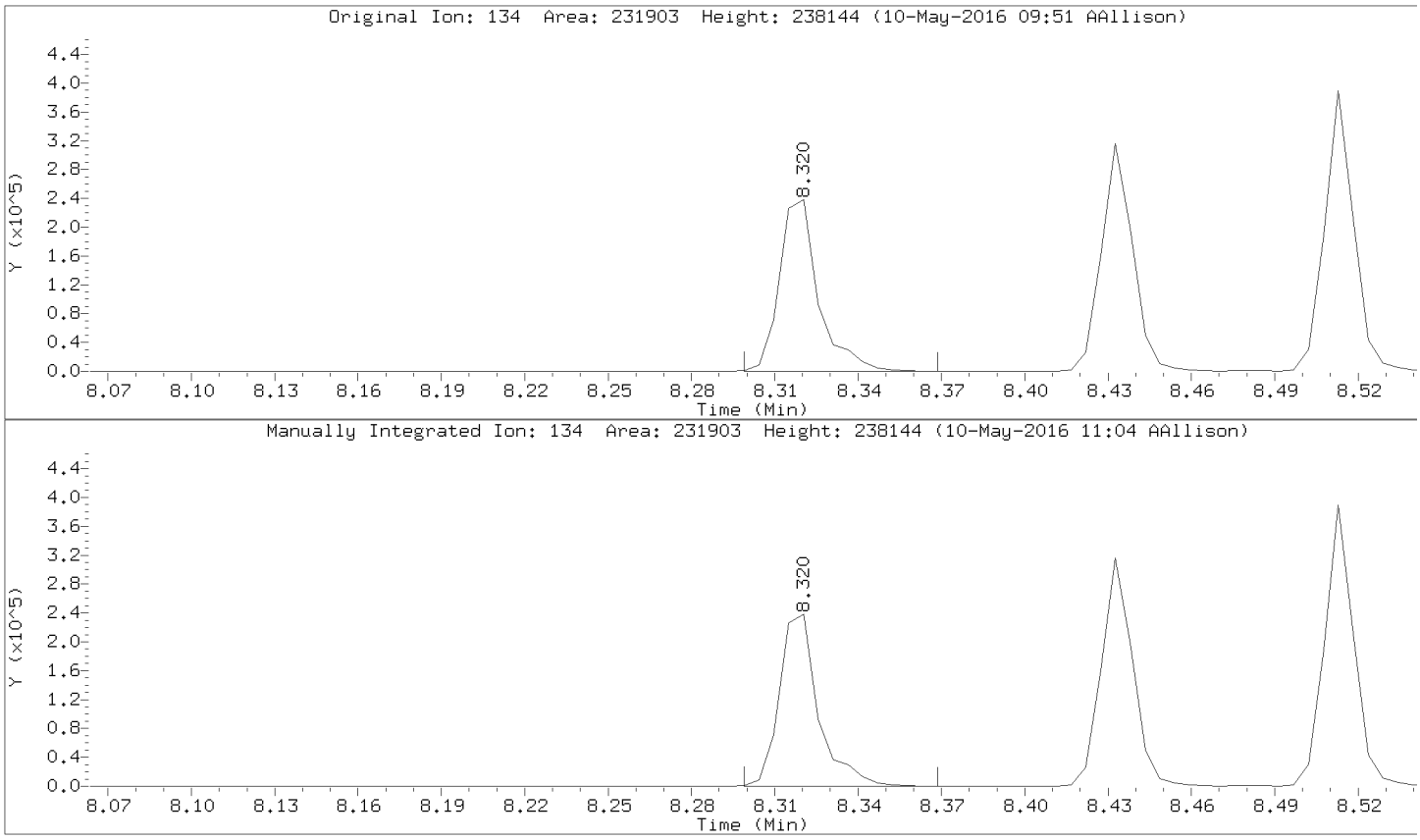






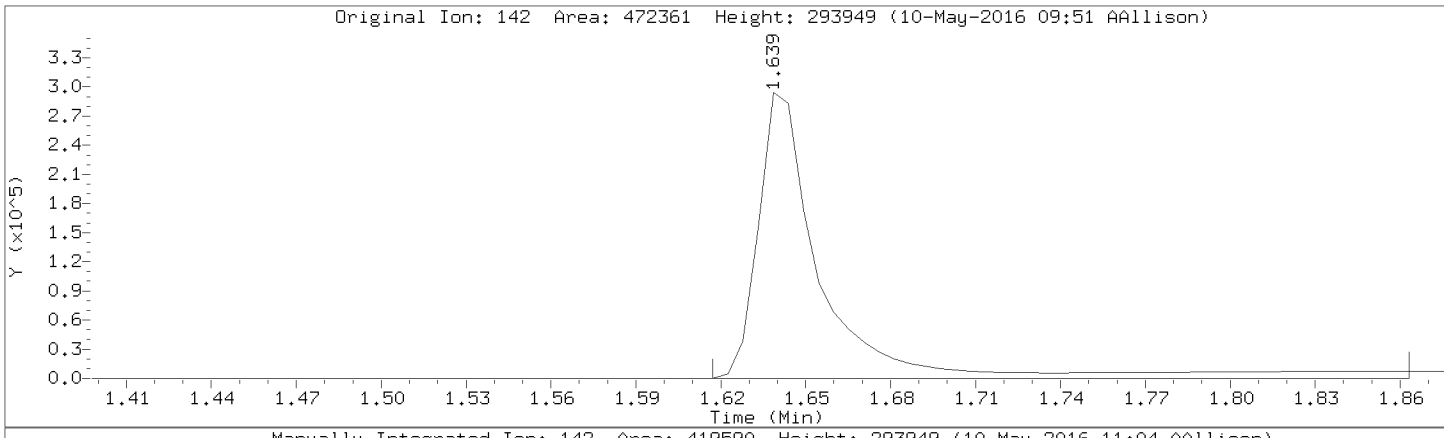


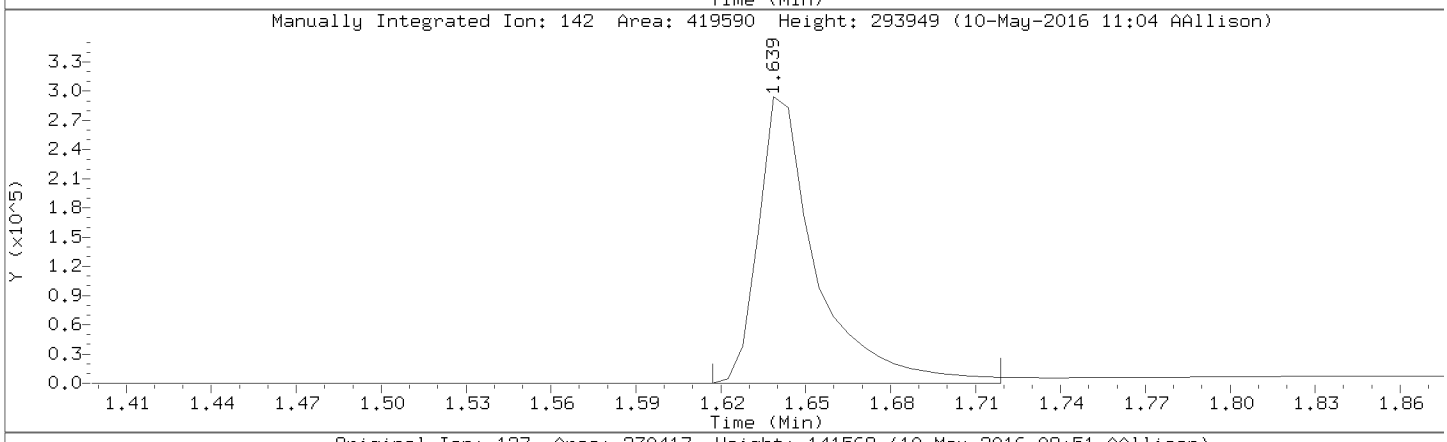
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a07.d
Injection Date: 09-MAY-2016 23:22
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL7

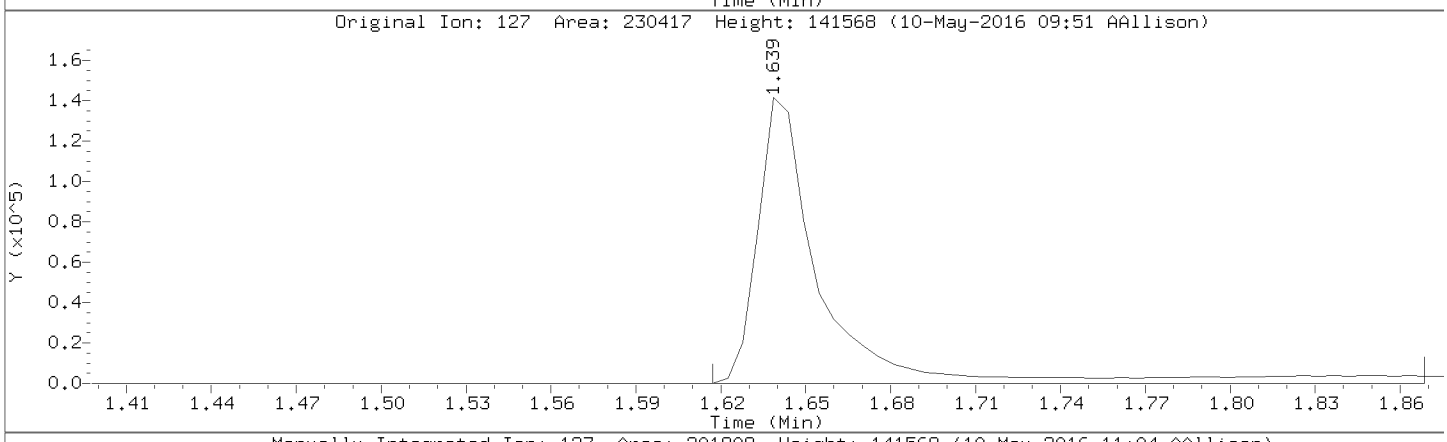


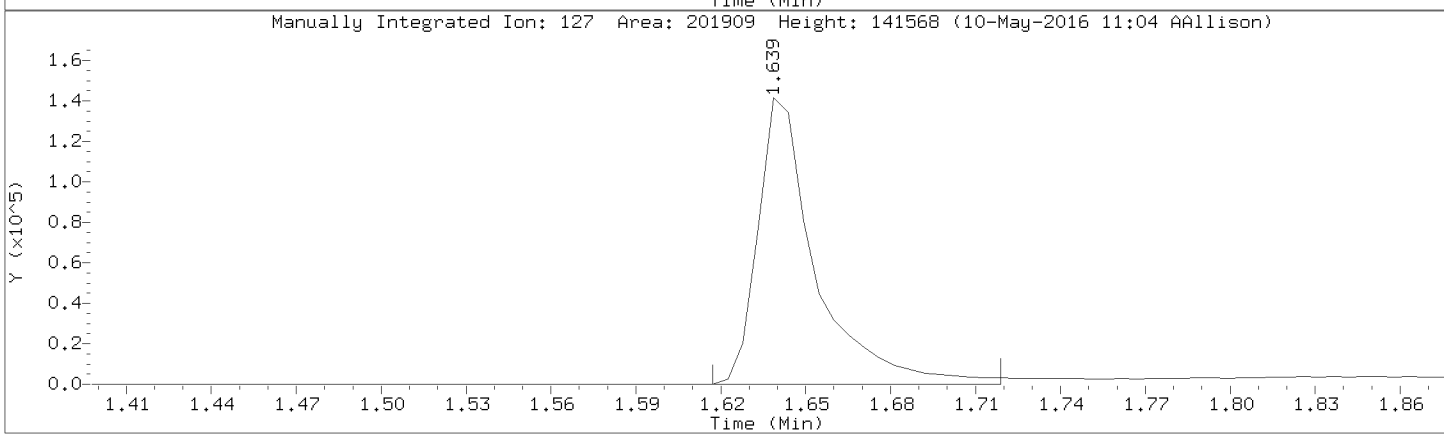
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a07.d
Injection Date: 09-MAY-2016 23:22
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL7

Compound: Iodomethane Review Code: GT
CAS Number:









Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a08.d
Lab Smp Id: 8260-CAL8 Client Smp ID: 8260-CAL8
Inj Date : 10-MAY-2016 00:00
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-cal8,121036:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 05-MAY-2016 21:59 Cal File: a08.d
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.905	0.911	(0.225)	770609	300.000	255
2	Chloromethane	50	0.980	0.986	(0.243)	688050	300.000	334
3	Vinyl Chloride	62	1.028	1.034	(0.255)	752098	300.000	242
4	Bromomethane	94	1.151	1.168	(0.286)	84854	300.000	131(M)
5	Chloroethane	64	1.194	1.210	(0.296)	169908	300.000	92.1(M)
6	Trichlorofluoromethane	101	1.301	1.317	(0.323)	1134669	300.000	212
8	Diethyl ether	74	1.435	1.440	(0.356)	418946	300.000	254
7	1,2-dichlorotrifluoroethane	67	1.451	1.456	(0.360)	875650	300.000	228
9	Acrolein	56	1.510	1.515	(0.375)	1722576	6000.00	5170
10	1,1,2trichlorotrifluoroethane	101	1.542	1.553	(0.383)	864630	300.000	244
11	1,1-Dichloroethene	96	1.552	1.563	(0.385)	589818	300.000	225
12	Acetone	43	1.585	1.585	(0.393)	920235	1500.00	1120
13	Iodomethane	142	1.633	1.649	(0.405)	712149	600.000	568(M)
14	Carbon Disulfide	76	1.676	1.686	(0.416)	1926171	300.000	207
16	Methyl Acetate	43	1.740	1.734	(0.432)	495609	300.000	251
143	Acetonitrile	39	1.740	1.745	(0.432)	1108817	300.000	173
15	allyl chloride	41	1.740	1.745	(0.432)	1552212	600.000	394
17	Methylene Chloride	84	1.815	1.820	(0.450)	651684	300.000	213
18	tert-Butyl Alcohol	59	1.895	1.873	(0.470)	158192	600.000	386(M)
19	Acrylonitrile	53	1.959	1.954	(0.486)	781983	1200.00	1060
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	1832299	300.000	318
21	1,2-Dichloroethene (trans)	96	1.975	1.981	(0.490)	631015	300.000	251
22	n-Hexane	57	2.141	2.146	(0.531)	935972	300.000	334

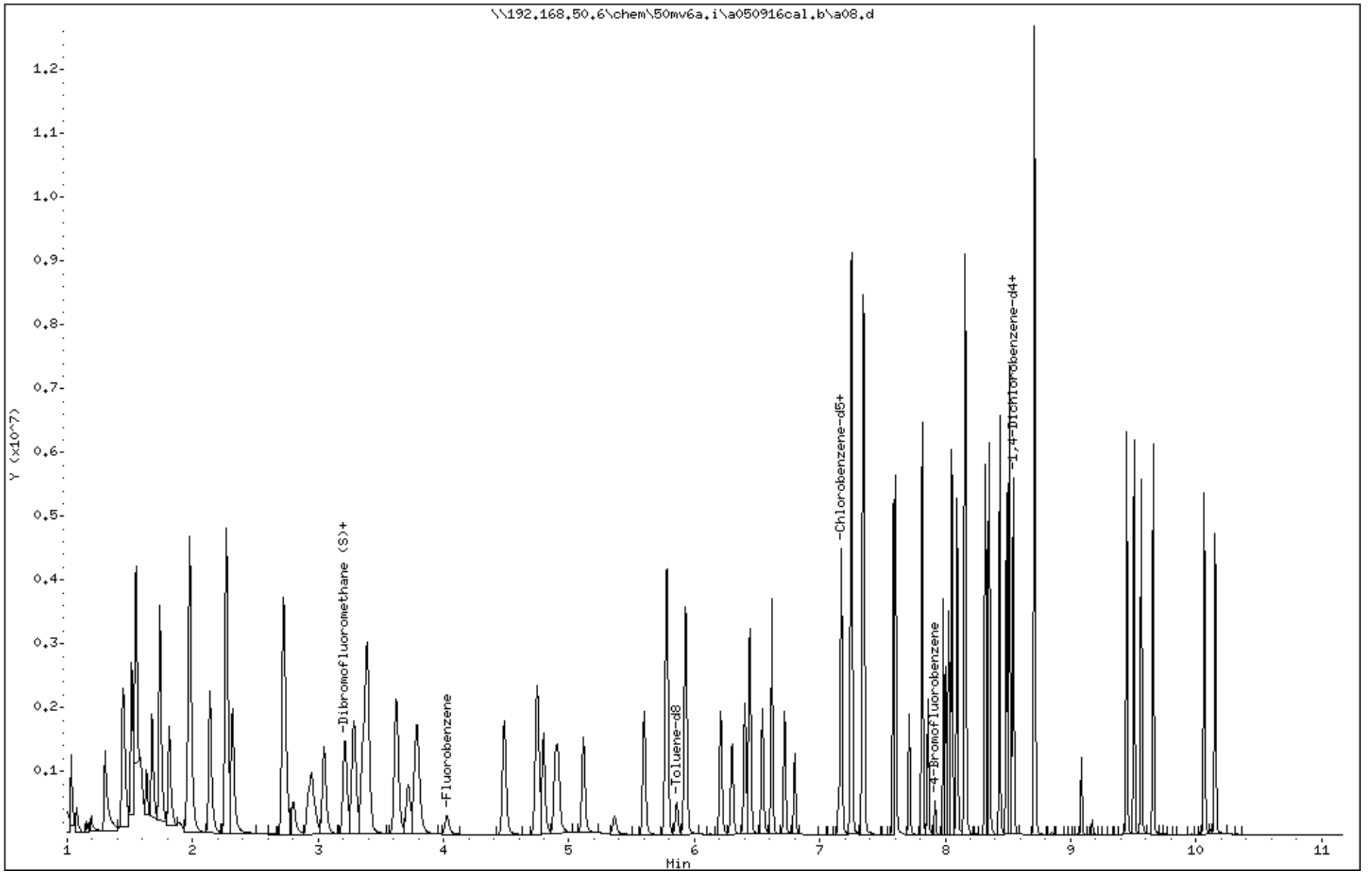
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
	24 Vinyl Acetate	43	2.269	2.264	(0.563)	4953266	1200.00	1300
	23 1,1-Dichloroethane	63	2.269	2.275	(0.563)	1072887	300.000	245
	147 chloroprene	53	2.318	2.323	(0.575)	871982	300.000	274
	28 2-Butanone	43	2.729	2.724	(0.677)	1422088	1500.00	1220
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	650181	300.000	250
	27 2,2-Dichloropropane	77	2.724	2.730	(0.676)	1007584	300.000	257
	149 Propionitrile	54	2.788	2.783	(0.692)	83946	300.000	253
	144 Methacrylonitrile	41	2.922	2.917	(0.725)	343447	300.000	293(M)
	30 Bromochloromethane	49	2.949	2.949	(0.732)	369265	300.000	223
	31 Tetrahydrofuran	42	2.981	2.975	(0.740)	186059	300.000	234
	32 Chloroform	83	3.050	3.056	(0.757)	1166759	300.000	264
$	33 Dibromofluoromethane (S)	113	3.216	3.222	(0.798)	96744	50.0000	43.0
	34 1,1,1-Trichloroethane	97	3.211	3.222	(0.797)	1072568	300.000	250
	35 Cyclohexane	56	3.286	3.291	(0.815)	926804	300.000	267
	150 n-Butyl chloride	56	3.355	3.355	(0.833)	1132520	300.000	284
	36 Carbon Tetrachloride	117	3.382	3.393	(0.839)	991031	300.000	268
	37 1,1-Dichloropropene	75	3.393	3.393	(0.842)	896772	300.000	292
	39 Benzene	78	3.623	3.628	(0.899)	2260339	300.000	282
	40 1,2-Dichloroethane	62	3.719	3.714	(0.923)	773594	300.000	265
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.940)	2249069	300.000	306
	38 Isobutyl alcohol	43	3.783	3.783	(0.939)	424577	300.000	293
*	41 Fluorobenzene	96	4.029	4.035	(1.000)	326195	50.0000	
	42 Trichloroethene	95	4.484	4.490	(1.113)	652319	300.000	280
	43 Methylcyclohexane	55	4.746	4.741	(1.178)	789407	300.000	309
	44 1,2-Dichloropropane	63	4.794	4.794	(1.190)	599211	300.000	287
	45 Dibromomethane	93	4.891	4.896	(1.214)	419143	300.000	268
	142 1,4-Dioxane	88	4.934	4.907	(1.224)	155630	6000.00	5710
	46 Methyl methacrylate	69	4.917	4.912	(1.220)	390389	300.000	304
	47 Bromodichloromethane	83	5.115	5.115	(1.269)	907288	300.000	279
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	999599	300.000	323
	50 4-Methyl-2-Pentanone	43	5.784	5.773	(0.809)	2677060	1500.00	1570
$	51 Toluene-d8	98	5.859	5.859	(0.819)	299023	50.0000	52.7
	52 Toluene	91	5.929	5.929	(0.829)	2354739	300.000	296
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	888400	300.000	323
	54 Ethyl Methacrylate	69	6.303	6.298	(0.881)	635748	300.000	305
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	456885	300.000	312
	56 Tetrachloroethene	166	6.442	6.437	(0.901)	750119	300.000	332
	57 1,3-Dichloropropane	76	6.538	6.544	(0.914)	835004	300.000	324
	58 2-Hexanone	43	6.619	6.613	(0.925)	1788456	1500.00	1460
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	680079	300.000	318
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	530519	300.000	311
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	215135	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	1520972	300.000	305
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	647778	300.000	346
	64 Ethylbenzene	106	7.255	7.255	(1.014)	797864	300.000	304
	65 m&p-Xylene	106	7.346	7.346	(1.027)	1835416	600.000	566
	67 o-Xylene	106	7.592	7.592	(1.061)	855471	300.000	272
	68 Styrene	104	7.608	7.608	(1.064)	1509879	300.000	282
	69 Bromoform	173	7.715	7.710	(0.904)	504038	300.000	321
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	2296106	300.000	276
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	91658	50.0000	44.8
	74 Bromobenzene	77	7.983	7.983	(1.116)	837799	300.000	278
	73 1,1,2,2-Tetrachloroethane	83	8.010	8.004	(0.939)	647584	300.000	313
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	164162	300.000	263

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	170561	300.000	302	
76	n-Propylbenzene	91	8.052	8.052	(0.944)	2570564	300.000	286	
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	1475131	300.000	285	
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	1844410	300.000	322	
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	555785	300.000	288	
80	tert-Butylbenzene	119	8.320	8.315	(0.975)	1884036	300.000	296	(M)
81	1,2,4-Trimethylbenzene	105	8.352	8.347	(0.979)	1808708	300.000	317	
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	2259925	300.000	287	
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	1059392	300.000	295	
84	p-Isopropyltoluene	119	8.512	8.513	(0.997)	1949490	300.000	304	
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	106891	50.0000		(Q)
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	1096815	300.000	294	
87	n-Butylbenzene	91	8.710	8.710	(1.021)	2049107	300.000	325	
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	1120478	300.000	325	
89	1,2-Dibromo-3-chloropropane	155	9.085	9.090	(1.065)	135572	300.000	318	
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	918788	300.000	356	
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	566531	300.000	365	
92	Naphthalene	128	9.561	9.566	(1.120)	2177043	300.000	308	
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	910607	300.000	354	
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	1322924	300.000	334	
148	1-Methylnaphthalene	141	10.149	10.155	(1.189)	1100931	300.000	323	

QC Flag Legend

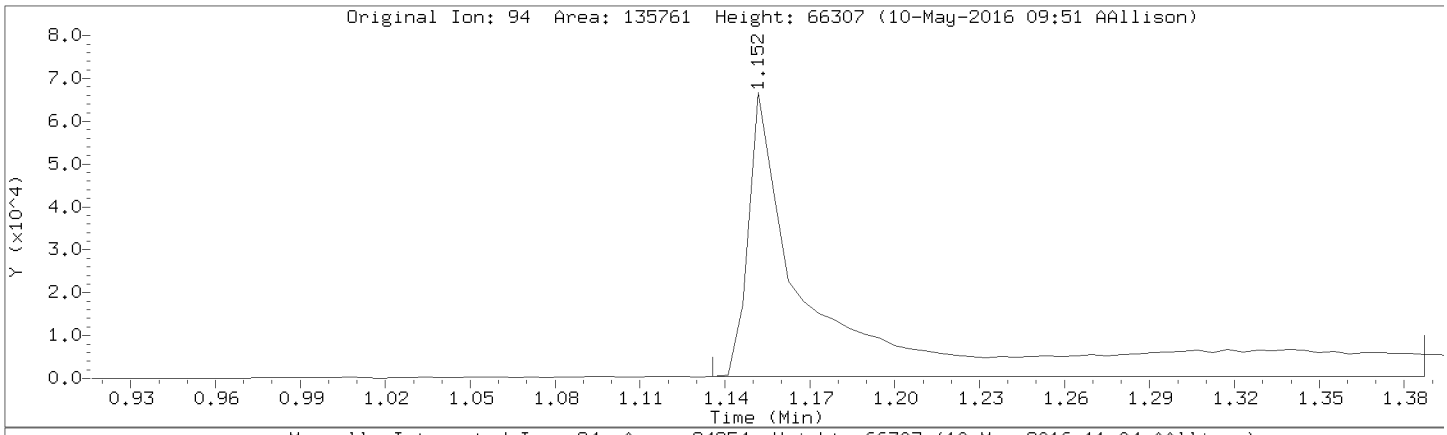
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

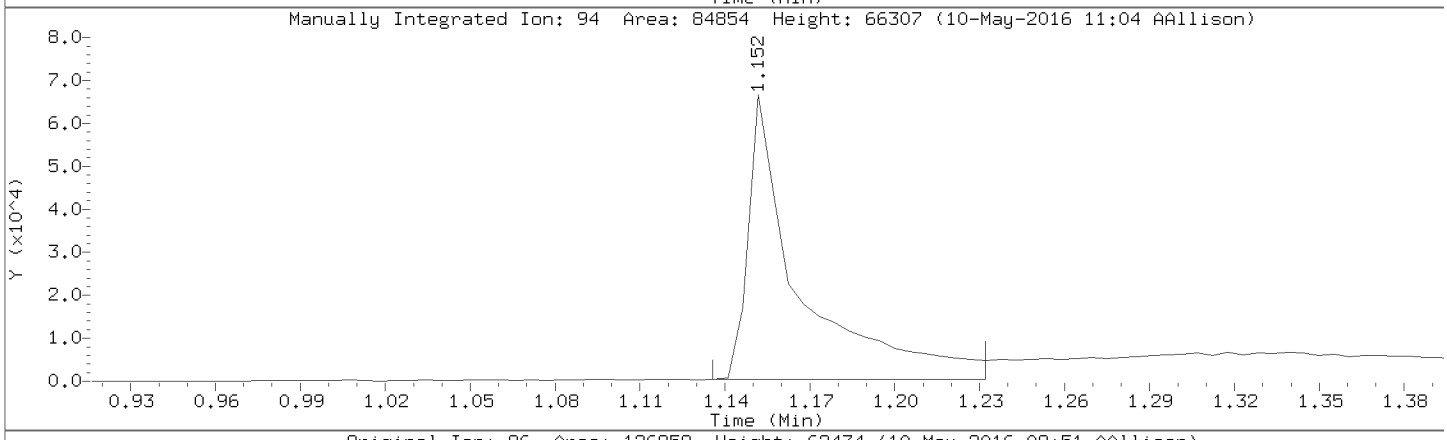
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a08.d
Date : 10-MAY-2016 00:00
Client ID: 8260-CAL8
Instrument: 50mv6a.i
Sample Info: 8260-CAL8,121036:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18

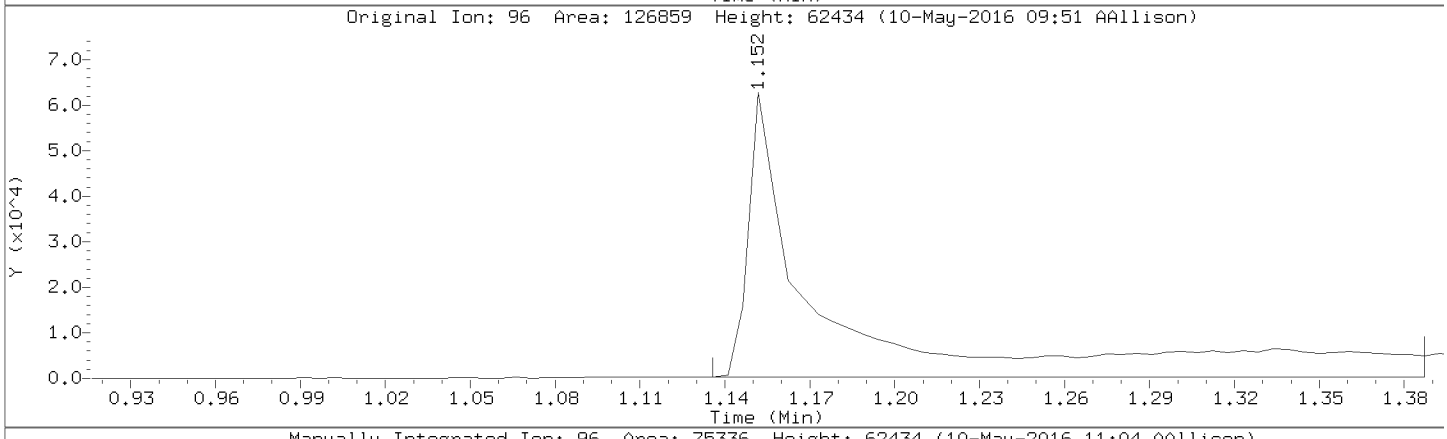


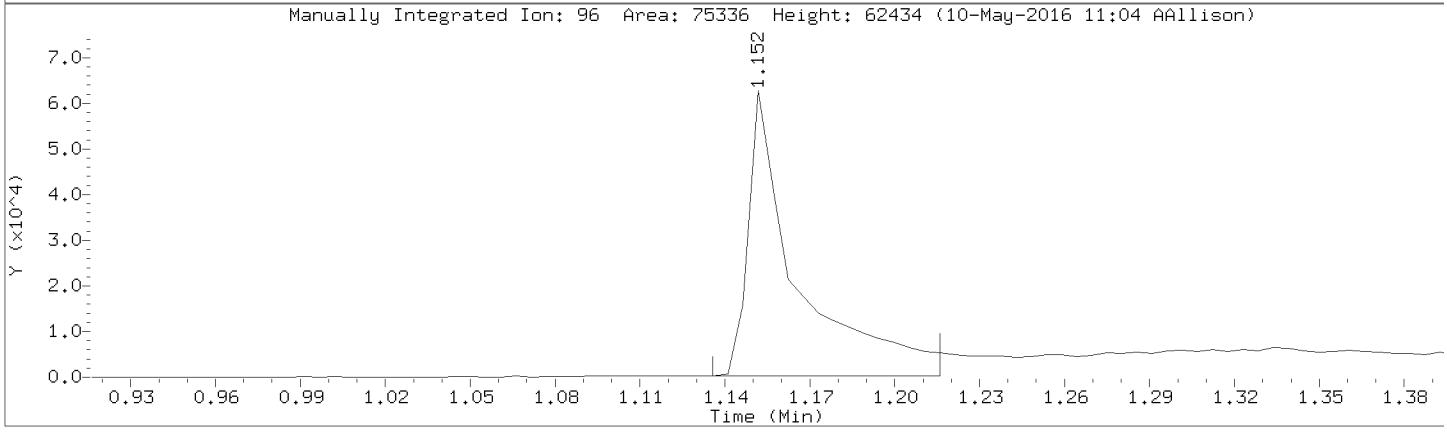
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

Compound: Bromomethane Review Code: GT
CAS Number: 74-83-9



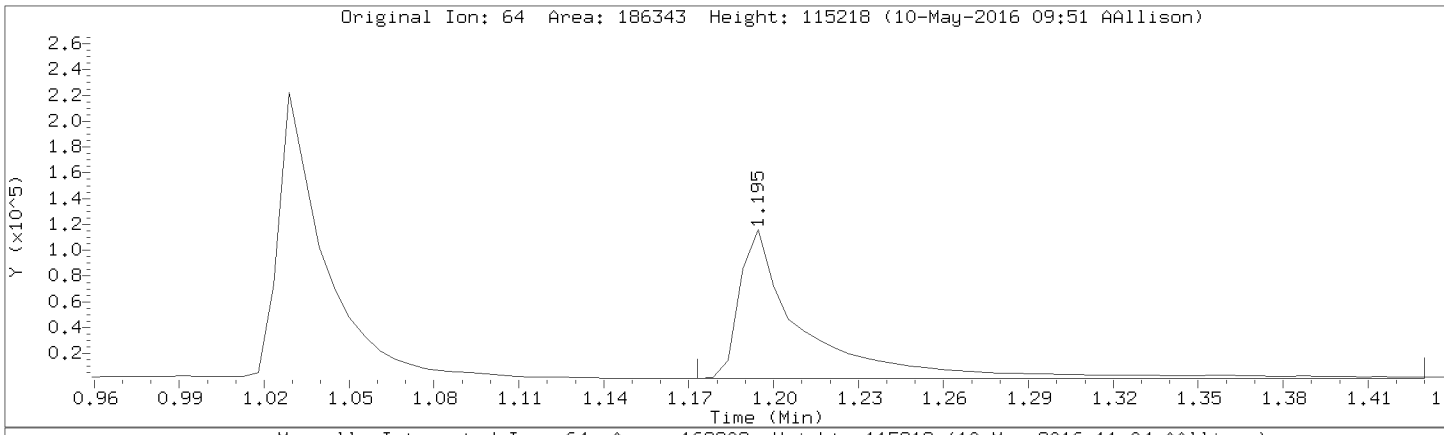


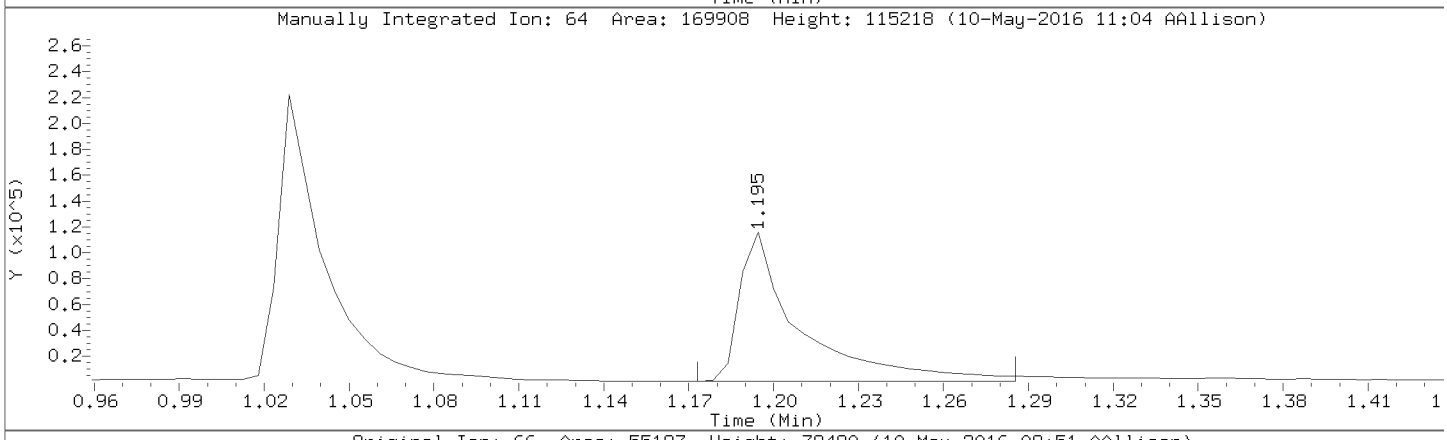


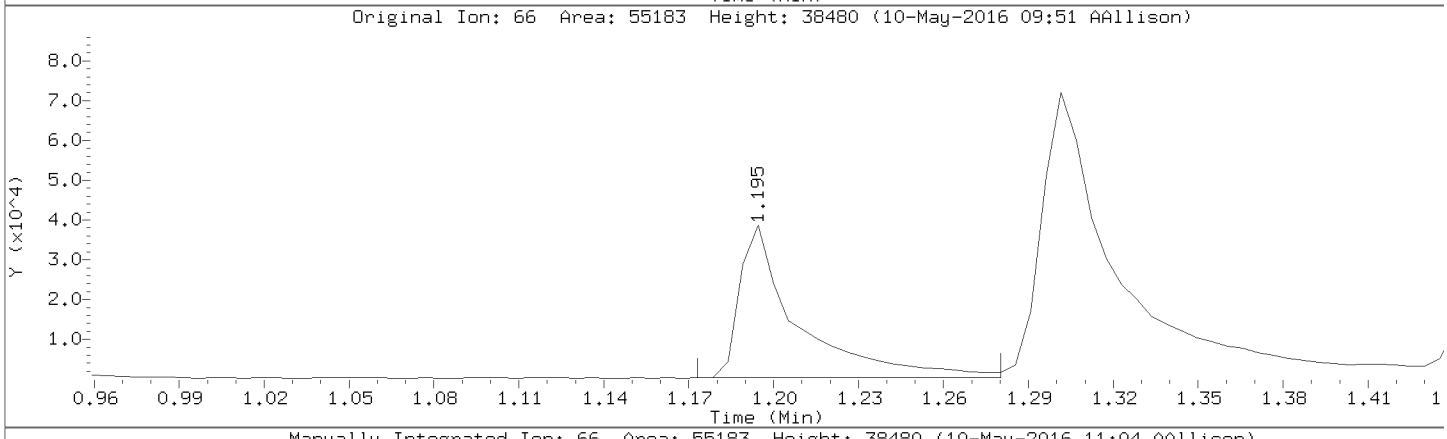


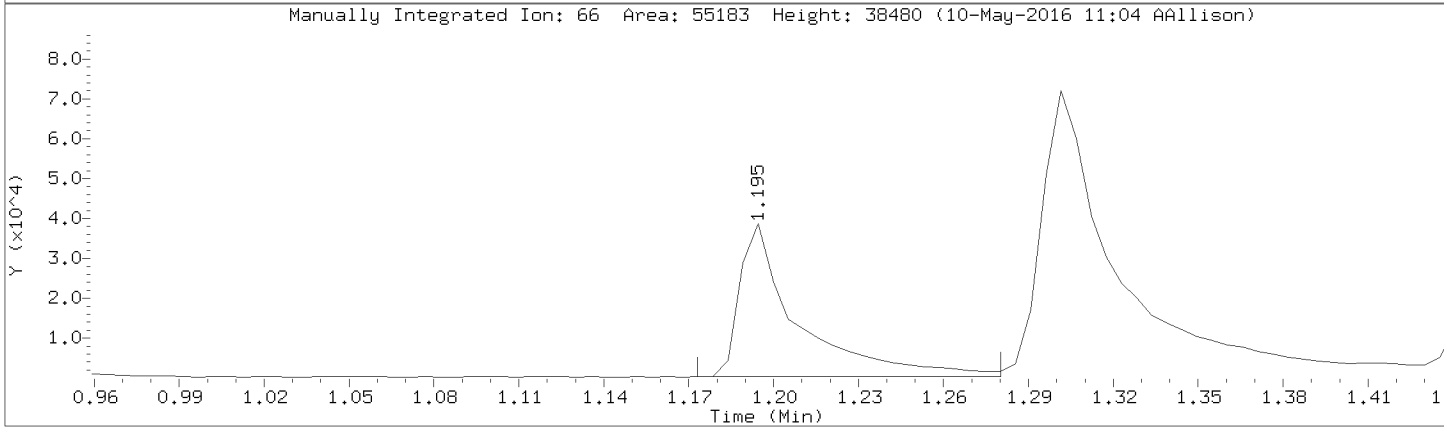
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

Compound: Chloroethane Review Code: GT
CAS Number: 75-00-3



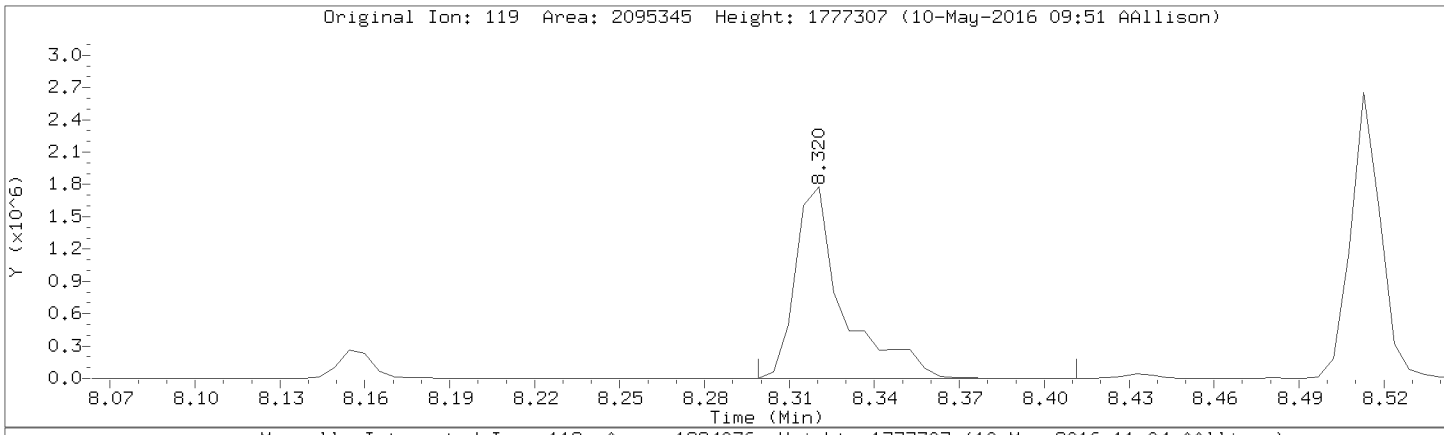


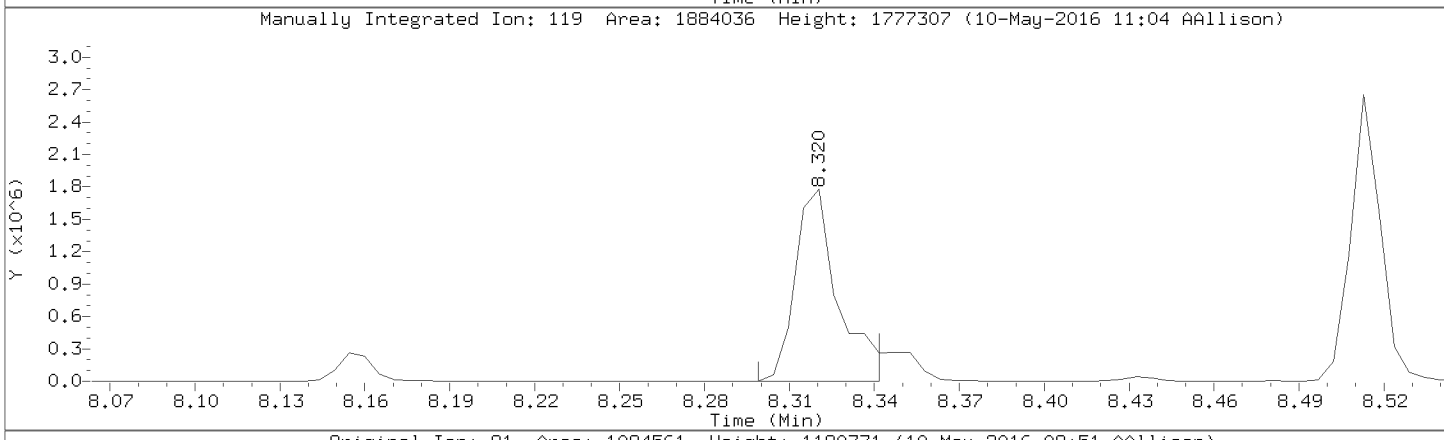


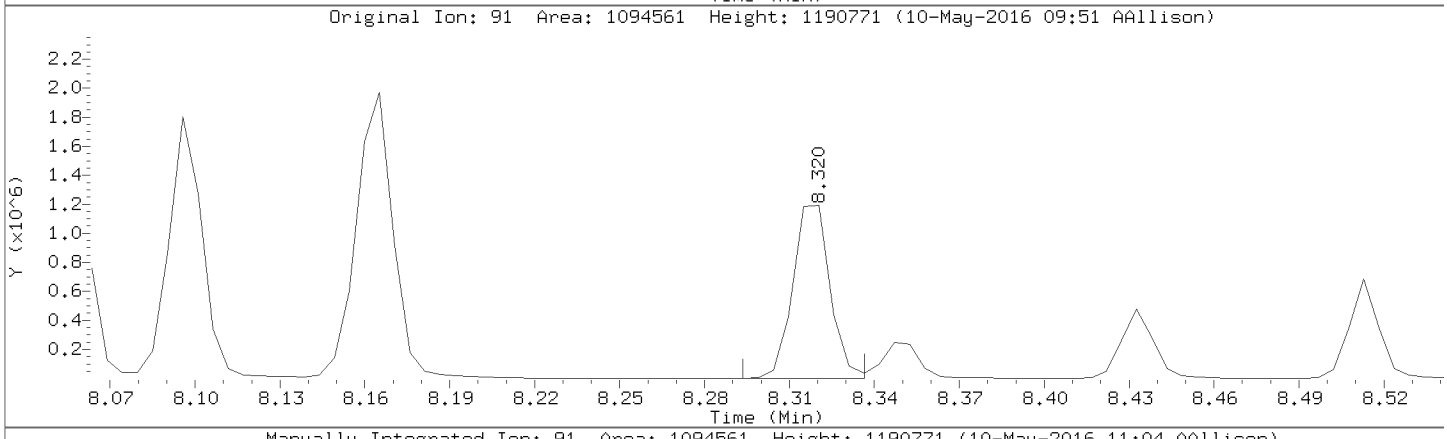


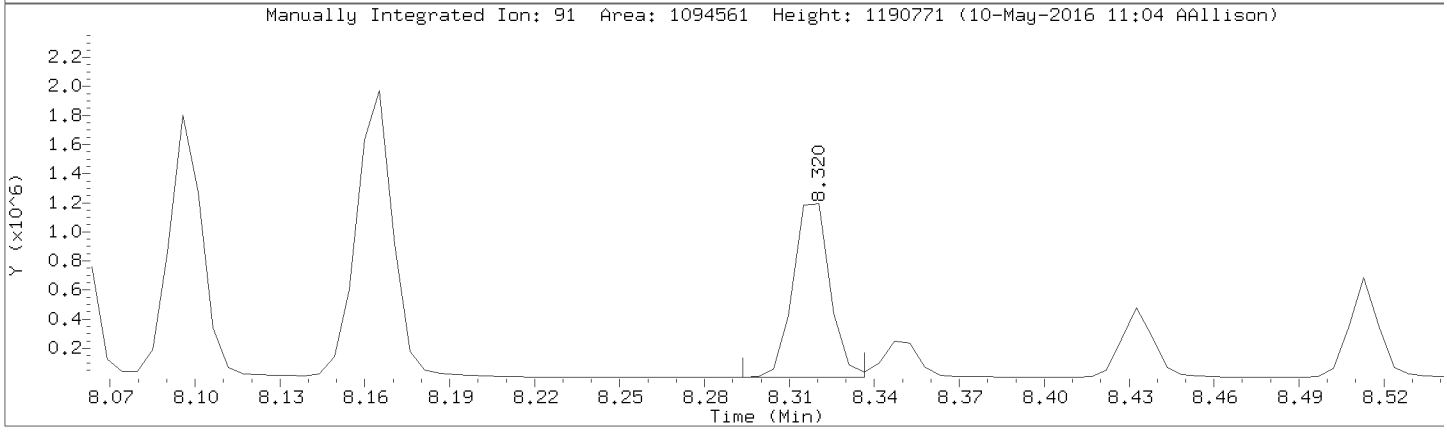
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butylbenzene Review Code: CO
CAS Number: 98-06-6

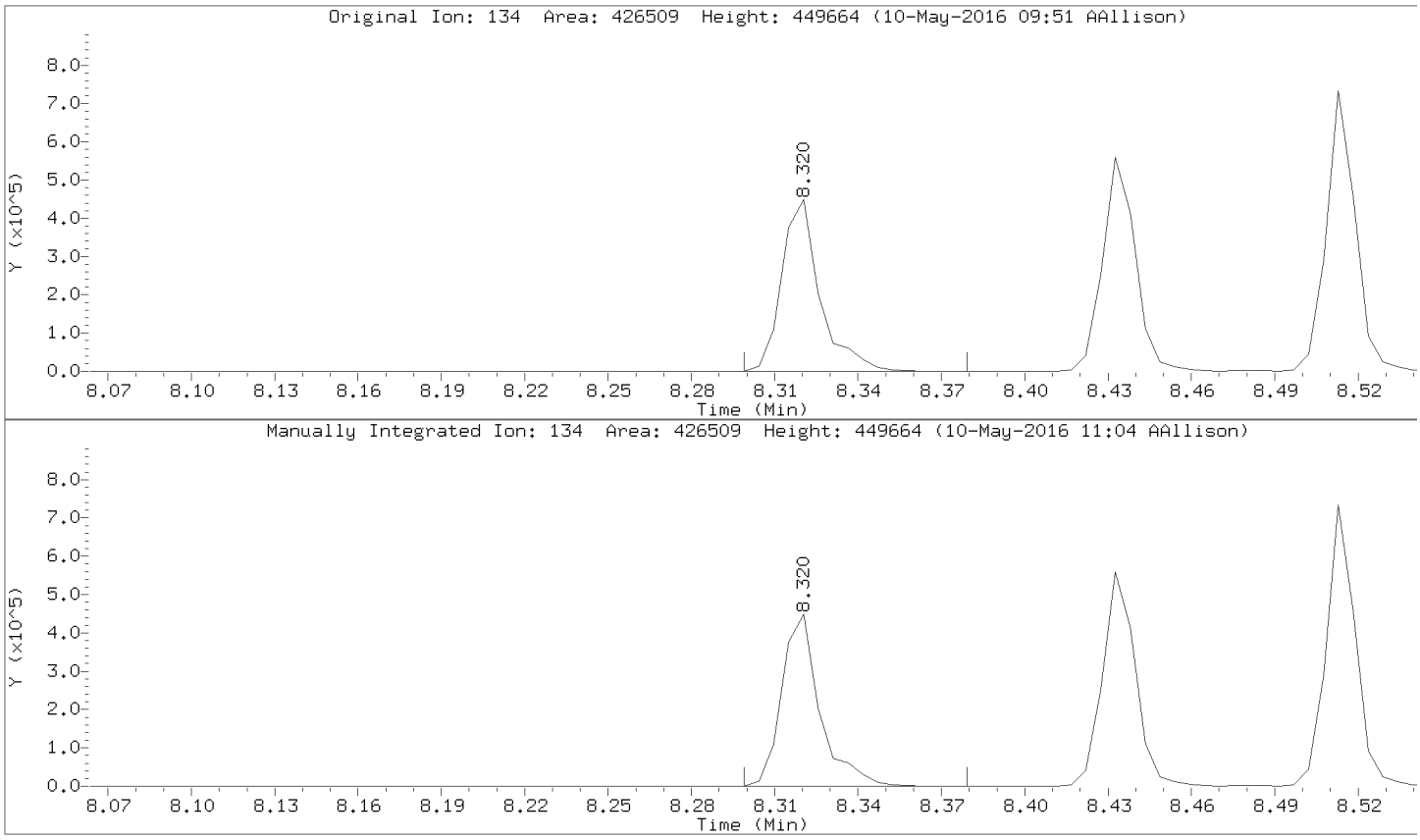






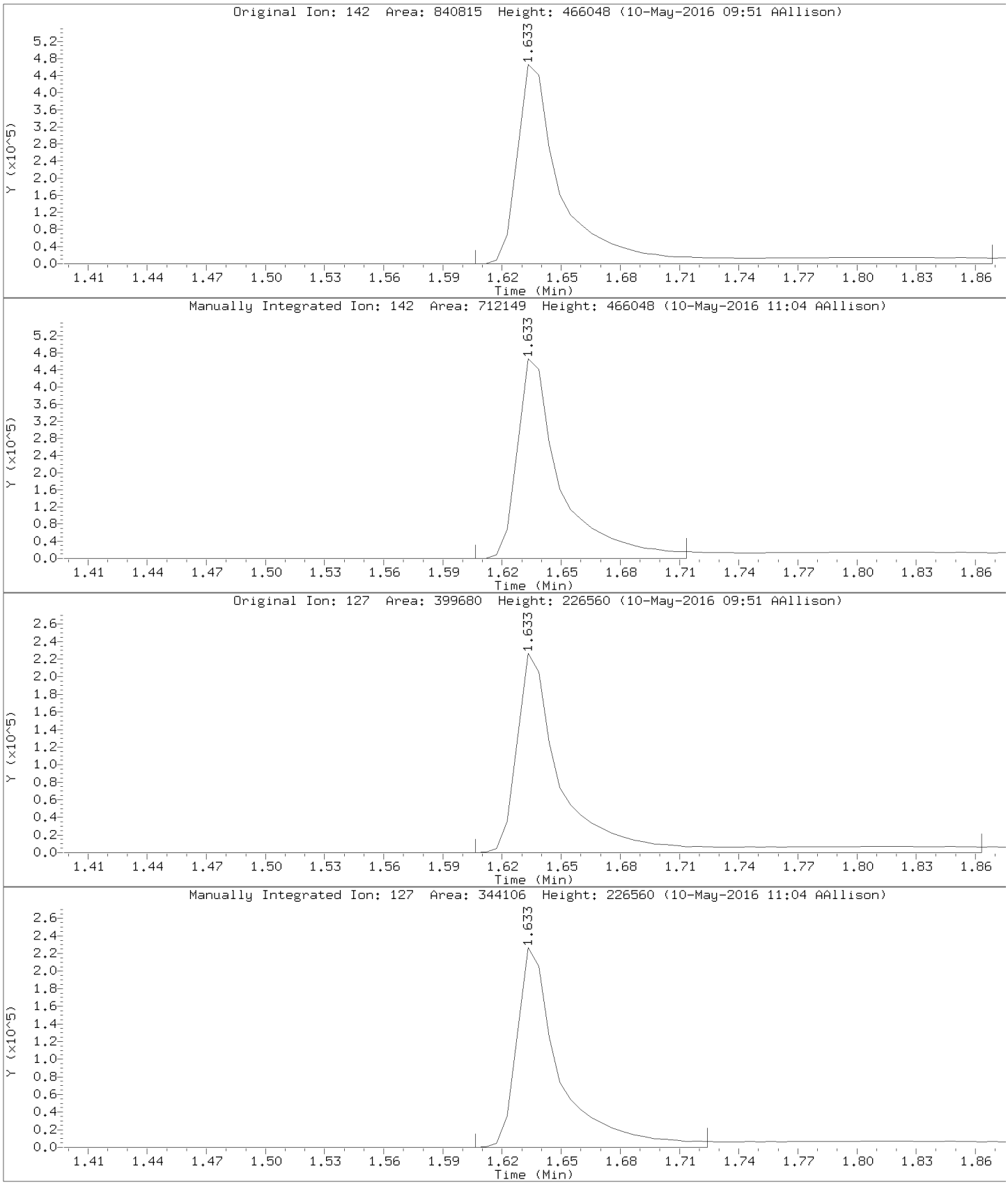


Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8



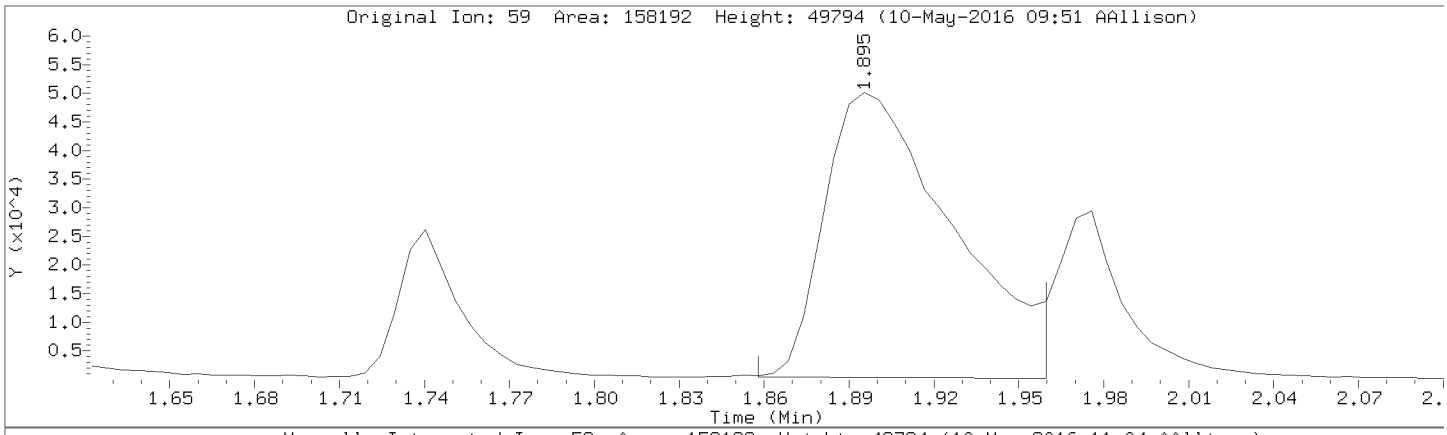
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

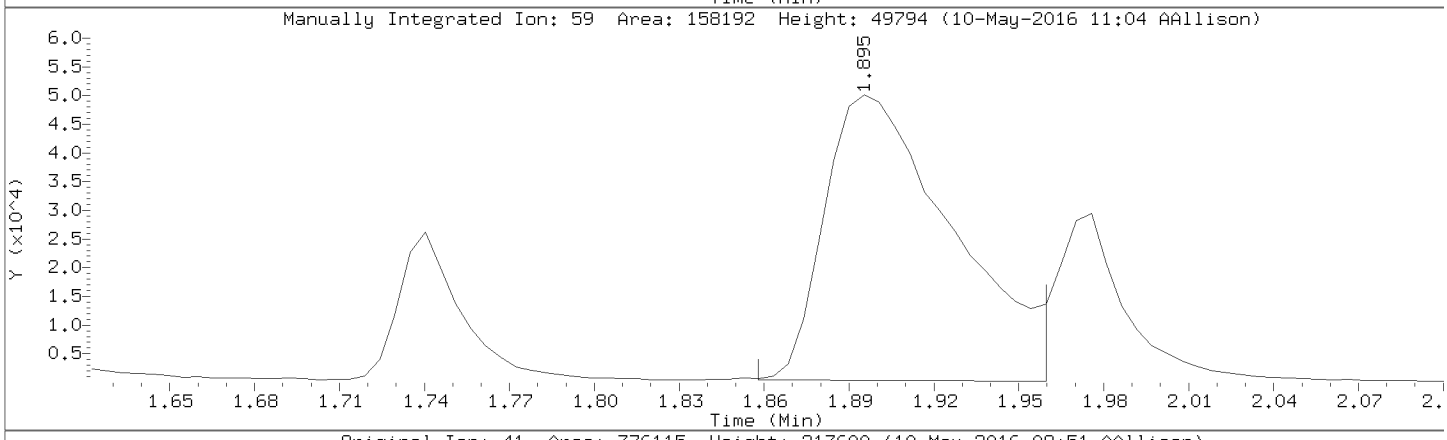
Compound: Iodomethane Review Code: GT
CAS Number:

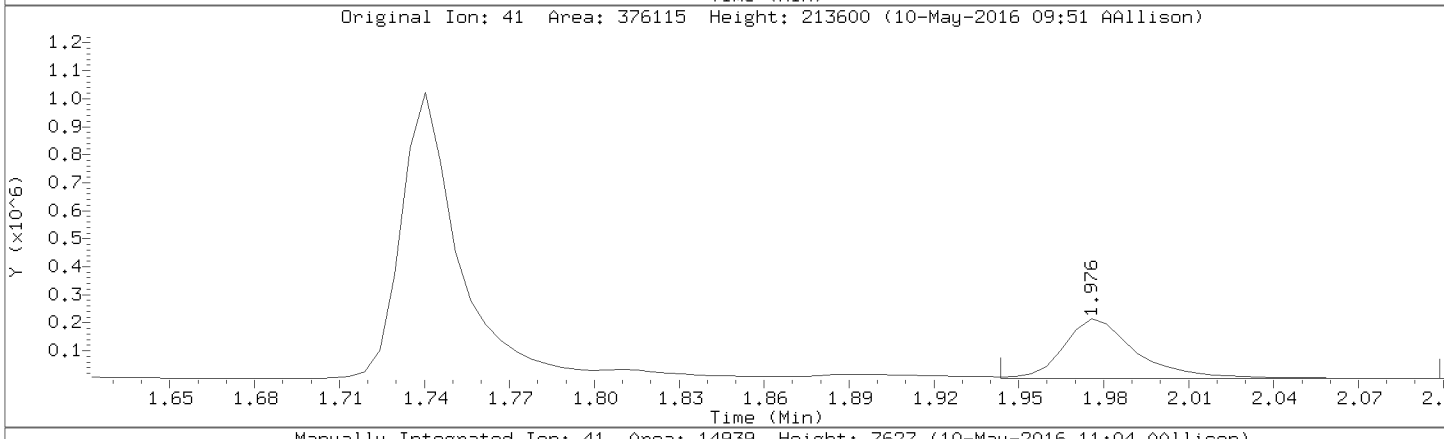


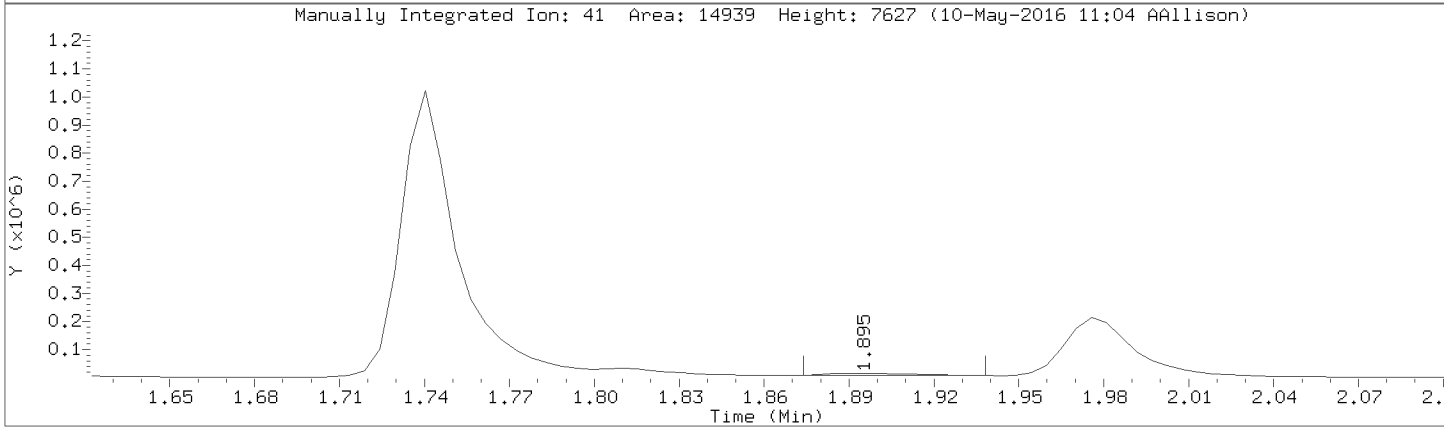
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

Compound: tert-Butyl Alcohol Review Code: WP
CAS Number: 75-65-0



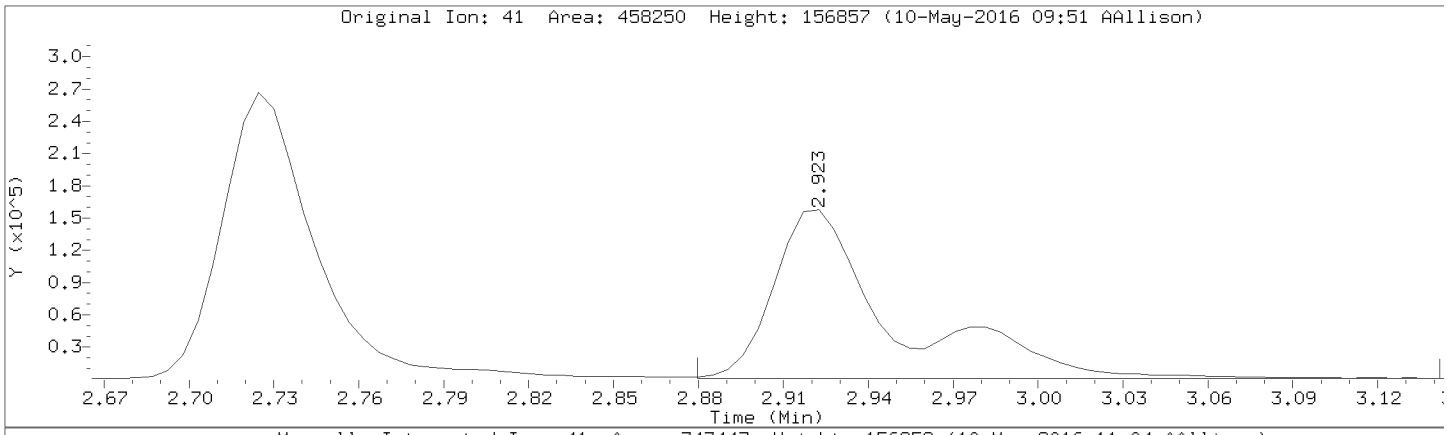


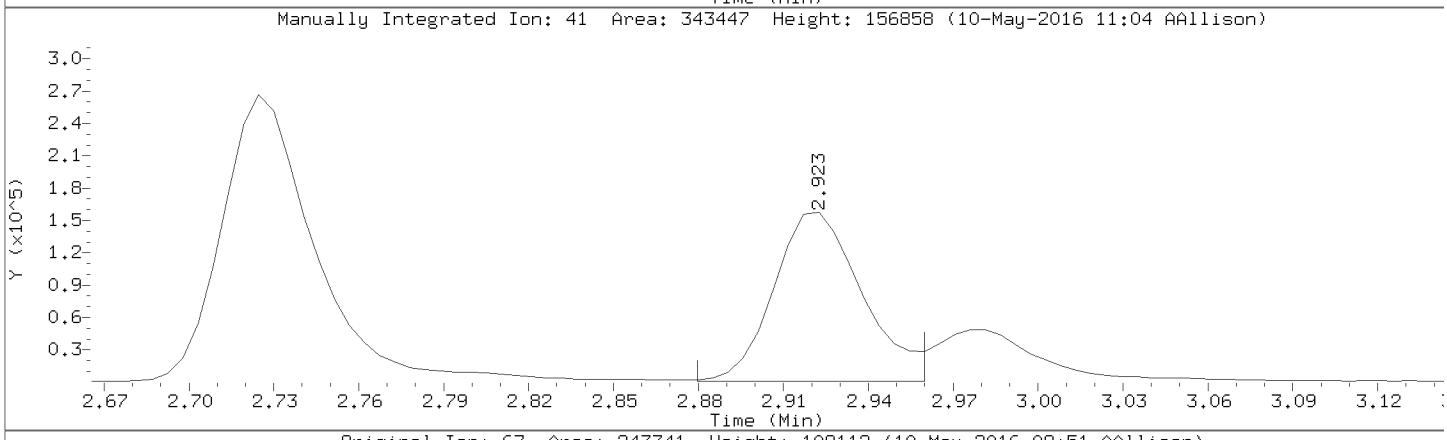


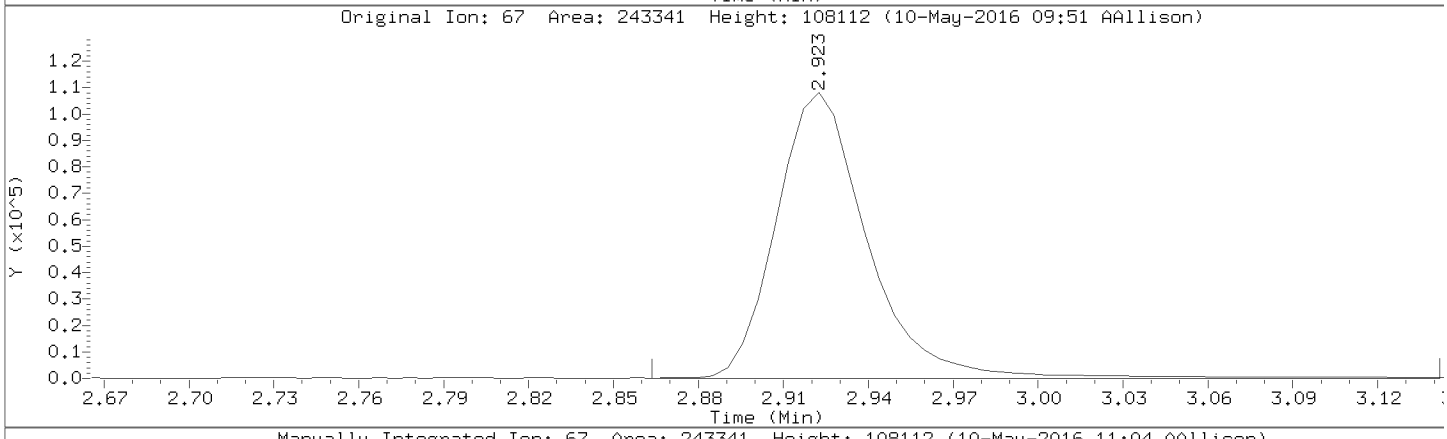


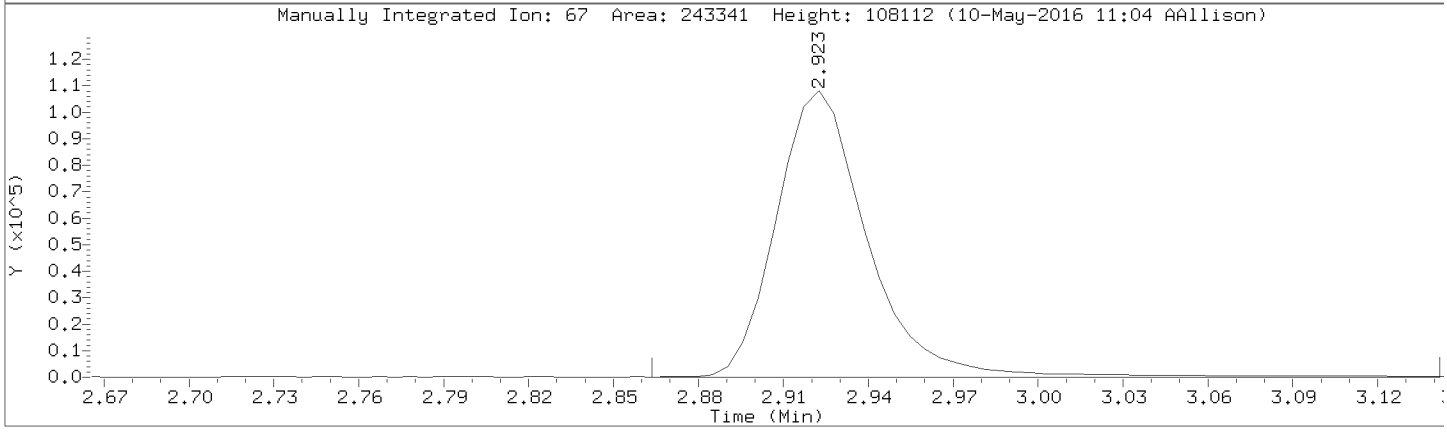
Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8

Compound: Methacrylonitrile Review Code: CO
CAS Number: 126-98-7

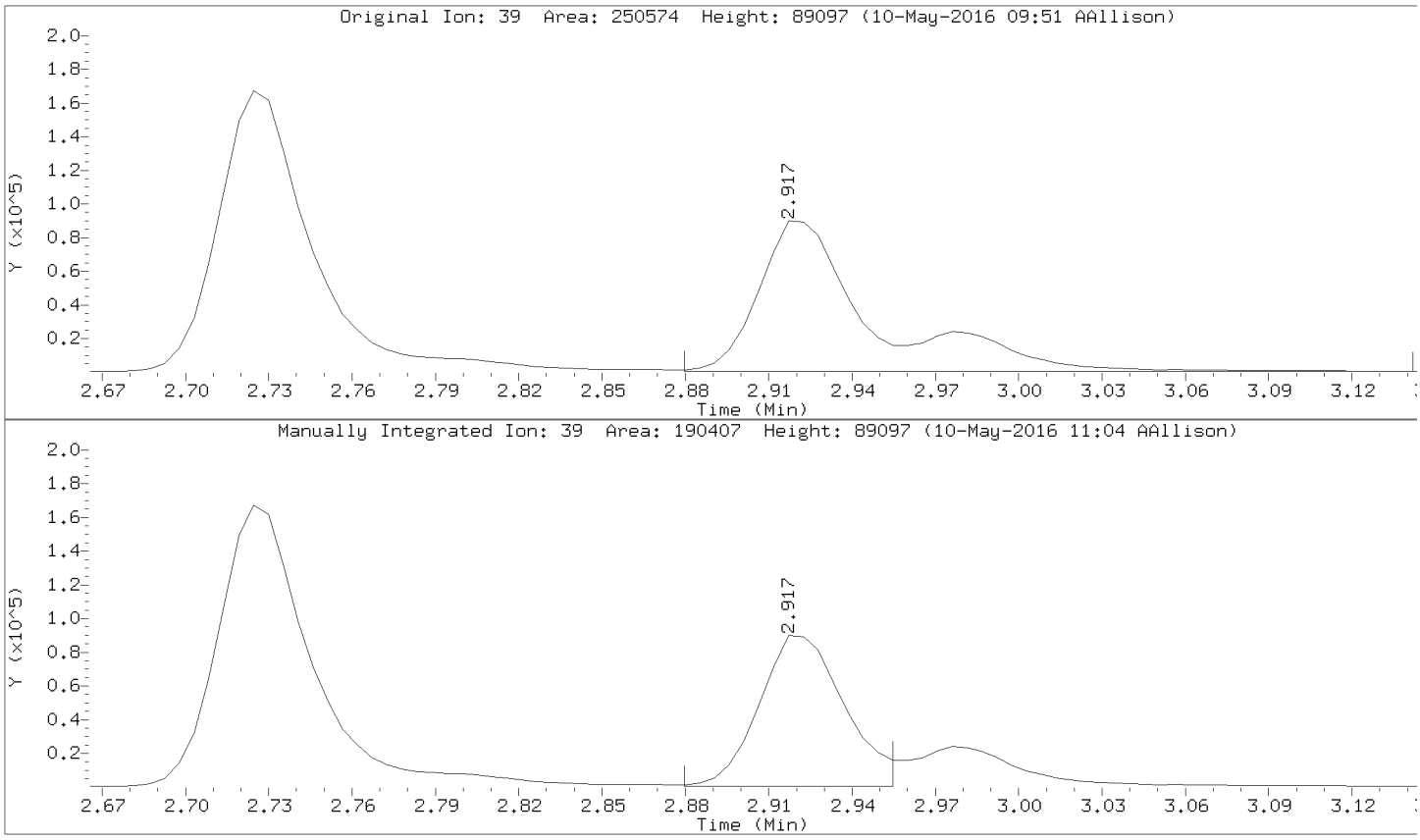








Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a08.d
Injection Date: 10-MAY-2016 00:00
Instrument: 50mv6a.i
Lab Sample ID: 8260-CAL8



SAMPLE NO.

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

9698515CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/10/2016 Time: 14:54

Instrument ID: 50MV6A GC Column: Col 1 Init. Calib. Date(s): 05/09/2016 05/10/2016

Lab File ID: A051016.B\A01CCV.D Init. Calib. Time(s): 19:37 00:00

SDG No.: 50143942

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Averaged	0.12140	0.11008	0.0100	-9.3233	20.0000
Benzene	Averaged	1.21860	1.23394	0.5000	1.2591	20.0000
Bromodichloromethane	Averaged	0.49377	0.49086	0.2000	-0.5903	20.0000
Bromoform	Averaged	0.72648	0.70086	0.1000	-3.5267	20.0000
Bromomethane	Averaged	0.11019	0.14902	0.1000	35.2420	20.0000
2-Butanone (MEK)	Averaged	0.17426	0.14158	0.0100	-18.7528	20.0000
Carbon disulfide	Averaged	1.19343	1.29313	0.1000	8.3540	20.0000
Carbon tetrachloride	Averaged	0.56167	0.56301	0.1000	0.2376	20.0000
Chlorobenzene	Averaged	1.14759	1.19494	0.5000	4.1264	20.0000
Chloroethane	Averaged	0.28142	0.28240	0.1000	0.3464	20.0000
Chloroform	Averaged	0.68000	0.65311	0.2000	-3.9536	20.0000
Chloromethane	Averaged	0.32042	0.27564	0.1000	-13.9765	20.0000
Cyclohexane	Averaged	0.52437	0.50394	0.1000	-3.8952	20.0000
1,2-Dibromo-3-chloropropane	Averaged	0.19711	0.17389	0.0500	-11.7816	20.0000
Dibromochloromethane	Averaged	0.48703	0.52301	0.1000	7.3886	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.39279	0.42666	0.1000	8.6236	20.0000
1,2-Dichlorobenzene	Averaged	1.63104	1.67192	0.4000	2.5064	20.0000
1,3-Dichlorobenzene	Averaged	1.67701	1.73801	0.6000	3.6369	20.0000
1,4-Dichlorobenzene	Averaged	1.74075	1.83320	0.5000	5.3107	20.0000
Dichlorodifluoromethane	Averaged	0.46985	0.38868	0.1000	-17.2765	20.0000
1,1-Dichloroethane	Averaged	0.66262	0.63052	0.2000	-4.8443	20.0000
1,2-Dichloroethane	Averaged	0.44491	0.41410	0.1000	-6.9245	20.0000
1,1-Dichloroethene	Averaged	0.39506	0.43748	0.1000	10.7377	20.0000
cis-1,2-Dichloroethene	Averaged	0.40421	0.37514	0.1000	-7.1922	20.0000
trans-1,2-Dichloroethene	Averaged	0.37230	0.35344	0.1000	-5.0668	20.0000
1,2-Dichloropropane	Averaged	0.31810	0.31301	0.1000	-1.5982	20.0000
cis-1,3-Dichloropropene	Averaged	0.67769	0.75898	0.2000	11.9951	20.0000
trans-1,3-Dichloropropene	Averaged	0.62153	0.67699	0.1000	8.9233	20.0000
Ethylbenzene	Averaged	0.61156	0.62830	0.1000	2.7365	20.0000
2-Hexanone	Averaged	0.28409	0.27638	0.0500	-2.7168	20.0000
Isopropylbenzene (Cumene)	Averaged	1.87681	2.03335	0.1000	8.3411	20.0000
Methyl acetate	Averaged	0.29512	0.27124	0.1000	-8.0908	20.0000
Methylcyclohexane	Averaged	0.39291	0.40936	0.1000	4.1879	20.0000
Methylene Chloride	Linear	50	58.6903	0.1000	17.3806	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.39903	0.39119	0.0500	-1.9653	20.0000
Methyl-tert-butyl ether	Averaged	0.85829	0.88289	0.1000	2.8660	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

9698515CCV

Lab Name: Pace Analytical - Indiana Calibration Date: 05/10/2016 Time: 14:54

Instrument ID: 50MV6A GC Column: Col 1 Init. Calib. Date(s): 05/09/2016 05/10/2016

Lab File ID: A051016.B\A01CCV.D Init. Calib. Time(s): 19:37 00:00

SDG No.: 50143942

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Styrene	Averaged	1.23468	1.28726	0.3000	4.2583	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.97272	0.91749	0.3000	-5.6779	20.0000
Tetrachloroethene	Averaged	0.51722	0.59890	0.2000	15.7924	20.0000
Toluene	Averaged	1.84330	1.87565	0.4000	1.7551	20.0000
1,2,4-Trichlorobenzene	Averaged	1.24334	1.25340	0.2000	0.8088	20.0000
1,1,1-Trichloroethane	Averaged	0.65806	0.61422	0.1000	-6.6615	20.0000
1,1,2-Trichloroethane	Averaged	0.33186	0.34402	0.1000	3.6660	20.0000
Trichloroethene	Averaged	0.36506	0.35639	0.2000	-2.3744	20.0000
Trichlorofluoromethane	Averaged	0.75410	0.80214	0.1000	6.3706	20.0000
1,1,2-Trichlorotrifluoroethane	Averaged	0.53598	0.58475	0.1000	9.1007	20.0000
Vinyl chloride	Averaged	0.46521	0.43824	0.1000	-5.7981	20.0000
m&p-Xylene	Averaged	0.74765	0.79332	0.1000	6.1083	20.0000
o-Xylene	Averaged	0.72240	0.75618	0.3000	4.6760	20.0000
4-Bromofluorobenzene (S)	Averaged	0.46925	0.47003	0.1000	0.1666	20.0000
Dibromofluoromethane (S)	Averaged	0.33867	0.31214	0.1000	-7.8330	20.0000
Toluene-d8 (S)	Averaged	1.32673	1.33503	0.1000	0.6255	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d
Lab Smp Id: 8260-ICV Client Smp ID: 8260-ICV
Inj Date : 10-MAY-2016 01:15
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-icv,121037:0
Misc Info : 89951
Comment   :
Method   : \\192.168.50.6\chem\50mv6a.i\a050916cal.b\-a8260sl_a_c.m
Meth Date : 10-May-2016 12:54 AAllison Quant Type: ISTD
Cal Date : 10-MAY-2016 00:00 Cal File: a08.d
Als bottle: 11 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
1	Dichlorodifluoromethane	85	0.911	0.911	(0.226)	147886	50.3213	50.3
2	Chloromethane	50	0.986	0.986	(0.245)	89057	44.4353	44.4
3	Vinyl Chloride	62	1.034	1.034	(0.257)	147404	50.6578	50.6
4	Bromomethane	94	1.167	1.168	(0.290)	57334	86.8791	86.9(RH)
5	Chloroethane	64	1.210	1.210	(0.300)	82732	47.0004	47.0
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	251557	53.3326	53.3
8	Diethyl ether	74	1.440	1.440	(0.357)	69804	44.0477	44.0
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	162376	45.7324	45.7
9	Acrolein	56	1.510	1.515	(0.375)	384512	1191.53	1190
10	1,1,2trichlorotrifluoroethane	101	1.553	1.553	(0.385)	146614	43.7336	43.7
11	1,1-Dichloroethene	96	1.558	1.563	(0.387)	106765	43.2067	43.2
12	Acetone	43	1.579	1.585	(0.392)	162370	213.834	214
13	Iodomethane	142	1.644	1.649	(0.408)	151181	108.612	109
14	Carbon Disulfide	76	1.686	1.686	(0.419)	351717	47.1173	47.1
16	Methyl Acetate	43	1.735	1.734	(0.431)	97440	52.7870	52.8
143	Acetonitrile	39	1.745	1.745	(0.433)	232865	37.8745	37.9
15	allyl chloride	41	1.745	1.745	(0.433)	308058	85.6895	85.7
17	Methylene Chloride	84	1.820	1.820	(0.452)	110869	48.4852	48.5
18	tert-Butyl Alcohol	59	1.874	1.873	(0.465)	31825	105.603	106(Q)
19	Acrylonitrile	53	1.954	1.954	(0.485)	126740	184.375	184
20	Methyl-tert-butyl ether	73	1.975	1.981	(0.490)	274510	51.1340	51.1
21	1,2-Dichloroethene (trans)	96	1.981	1.981	(0.492)	100624	43.2106	43.2
22	n-Hexane	57	2.146	2.146	(0.533)	143675	53.8583	53.8

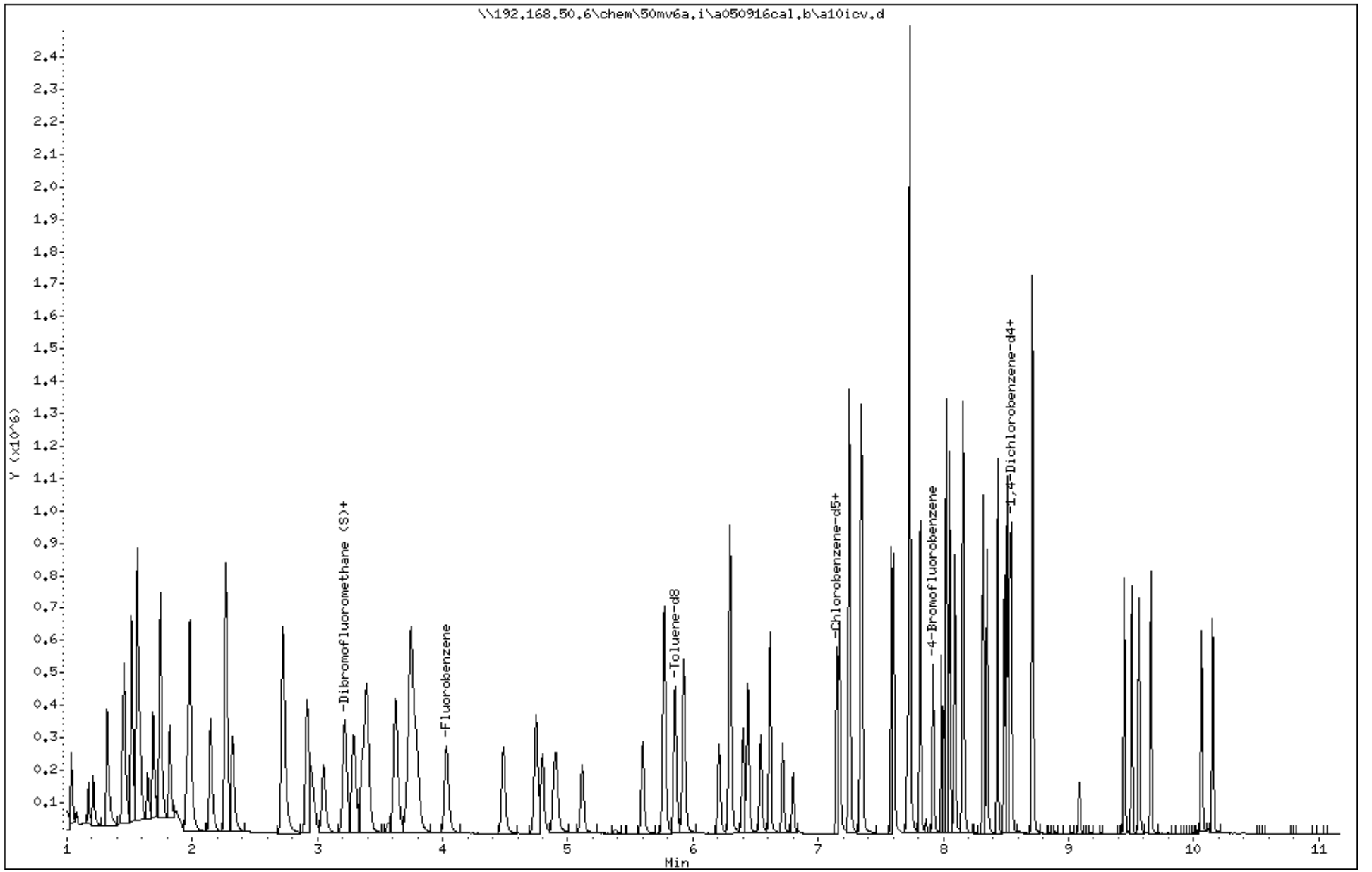
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ppb)
	24 Vinyl Acetate	43	2.264	2.264	(0.562)	842218	234.367	234
	23 1,1-Dichloroethane	63	2.275	2.275	(0.565)	178951	43.1775	43.2
	147 chloroprene	53	2.323	2.323	(0.577)	142573	47.3798	47.4
	28 2-Butanone	43	2.719	2.724	(0.675)	229926	210.953	211
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	110467	43.6926	43.7
	27 2,2-Dichloropropane	77	2.730	2.730	(0.677)	154034	42.3412	42.3
	149 Propionitrile	54	2.783	2.783	(0.691)	12390	40.2100	40.2(Q)
	144 Methacrylonitrile	41	2.917	2.917	(0.724)	234580	215.861	216
	30 Bromochloromethane	49	2.949	2.949	(0.732)	67117	43.6624	43.7
	31 Tetrahydrofuran	42	2.976	2.975	(0.738)	31163	47.7491	47.7
	32 Chloroform	83	3.051	3.056	(0.757)	180955	42.5450	42.5
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.800)	96373	45.4957	45.5
	34 1,1,1-Trichloroethane	97	3.216	3.222	(0.798)	167171	40.6144	40.6
	35 Cyclohexane	56	3.286	3.291	(0.815)	156771	47.7988	47.8
	150 n-Butyl chloride	56	3.355	3.355	(0.833)	183515	48.2965	48.3
	36 Carbon Tetrachloride	117	3.388	3.393	(0.841)	160498	45.6847	45.7
	37 1,1-Dichloropropene	75	3.393	3.393	(0.842)	141245	49.2279	49.2
	39 Benzene	78	3.628	3.628	(0.900)	356177	46.7293	46.7
	40 1,2-Dichloroethane	62	3.719	3.714	(0.923)	128718	46.2542	46.2
	141 2,2,4-Trimethylpentane	57	3.789	3.789	(0.940)	339793	48.9219	48.9
	38 Isobutyl alcohol	43	3.746	3.783	(0.930)	916144	660.868	661(Q)
*	41 Fluorobenzene	96	4.030	4.035	(1.000)	312741	50.0000	
	42 Trichloroethene	95	4.484	4.490	(1.113)	101565	44.4803	44.5
	43 Methylcyclohexane	55	4.746	4.741	(1.178)	125509	51.0703	51.1
	44 1,2-Dichloropropane	63	4.795	4.794	(1.190)	94534	47.5131	47.5
	45 Dibromomethane	93	4.891	4.896	(1.214)	65819	42.9326	42.9
	142 1,4-Dioxane	88	4.907	4.907	(1.218)	25863	997.206	997
	46 Methyl methacrylate	69	4.912	4.912	(1.219)	62918	53.4845	53.5
	47 Bromodichloromethane	83	5.116	5.115	(1.269)	139056	45.0244	45.0
	49 cis-1,3-Dichloropropene	75	5.597	5.602	(0.782)	154625	54.2047	54.2
	50 4-Methyl-2-Pentanone	43	5.774	5.773	(0.807)	447120	266.201	266
$	51 Toluene-d8	98	5.859	5.859	(0.819)	283364	50.7403	50.7
	52 Toluene	91	5.929	5.929	(0.829)	366022	47.1739	47.2
	53 trans-1,3-Dichloropropene	75	6.212	6.223	(0.868)	135495	51.7906	51.8
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	418709	204.619	205
	55 1,1,2-Trichloroethane	83	6.399	6.405	(0.895)	71241	51.0001	51.0
	56 Tetrachloroethene	166	6.437	6.437	(0.900)	107742	49.4884	49.5
	57 1,3-Dichloropropane	76	6.539	6.544	(0.914)	131352	53.3892	53.4
	58 2-Hexanone	43	6.613	6.613	(0.924)	316756	264.881	265
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	107746	52.5578	52.6
	60 1,2-Dibromoethane	107	6.801	6.806	(0.951)	86860	52.5356	52.5
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	210465	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	232523	48.1361	48.1
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	98716	54.7536	54.8
	64 Ethylbenzene	106	7.250	7.255	(1.013)	121148	47.0613	47.1
	65 m&p-Xylene	106	7.346	7.346	(1.027)	298354	94.8038	94.8
	67 o-Xylene	106	7.587	7.592	(1.061)	144562	47.5407	47.5
	68 Styrene	104	7.603	7.608	(1.063)	237304	45.6604	45.7
	69 Bromoform	173	7.715	7.710	(0.904)	75362	46.0481	46.0
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	375753	47.5634	47.6
$	72 4-Bromofluorobenzene	95	7.913	7.919	(1.106)	97497	49.3607	49.4
	74 Bromobenzene	77	7.983	7.983	(1.116)	136625	46.8795	46.9
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	106364	48.5392	48.5
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.031	(1.122)	106094	168.724	169(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)	
75	1,2,3-Trichloropropane	110	8.031	8.036	(0.941)	29588	49.8420	49.8	(Q)
76	n-Propylbenzene	91	8.053	8.052	(0.944)	459810	48.8270	48.8	
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	264211	49.4524	49.4	
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	283970	46.6434	46.6	
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	98912	48.9812	49.0	
80	tert-Butylbenzene	119	8.315	8.315	(0.974)	268296	40.6939	40.7	
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	278036	45.9019	45.9	
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	412173	50.5919	50.6	
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	182108	48.2034	48.2	
84	p-Isopropyltoluene	119	8.513	8.513	(0.997)	321793	47.6885	47.7	
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	112638	50.0000		(Q)
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	191124	48.7376	48.7	
87	n-Butylbenzene	91	8.711	8.710	(1.021)	309015	46.1752	46.2	
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	171614	46.7061	46.7	
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	20627	46.4534	46.4	
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	126510	45.1667	45.2	
91	Hexachlorobutadiene	225	9.508	9.508	(1.114)	73824	44.8506	44.8	
92	Naphthalene	128	9.566	9.566	(1.121)	321444	42.9552	43.0	
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	126537	45.4365	45.4	
94	2,methyl-naphthalene	142	10.064	10.069	(1.179)	168462	39.7333	39.7	
148	1-Methylnaphthalene	141	10.150	10.155	(1.189)	166486	43.5194	43.5	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d
Date : 10-MAY-2016 01:15
Client ID: 8260-ICV
Instrument: 50mv6a.i
Sample Info: 8260-ICV,121037:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

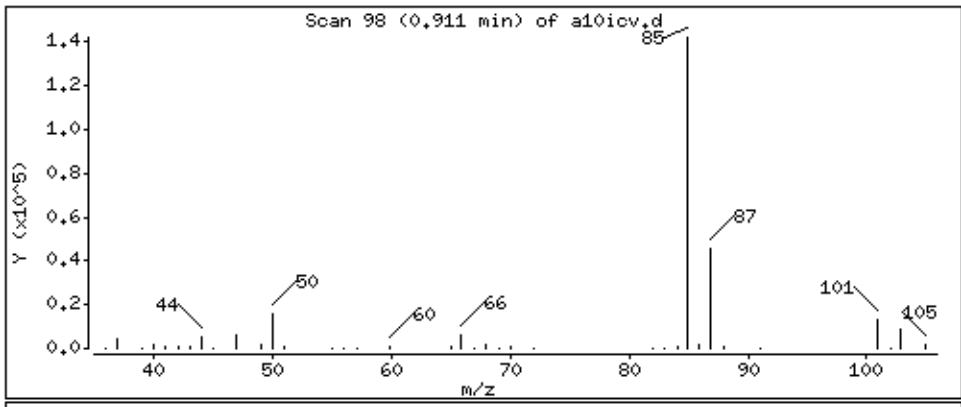
Operator: ala

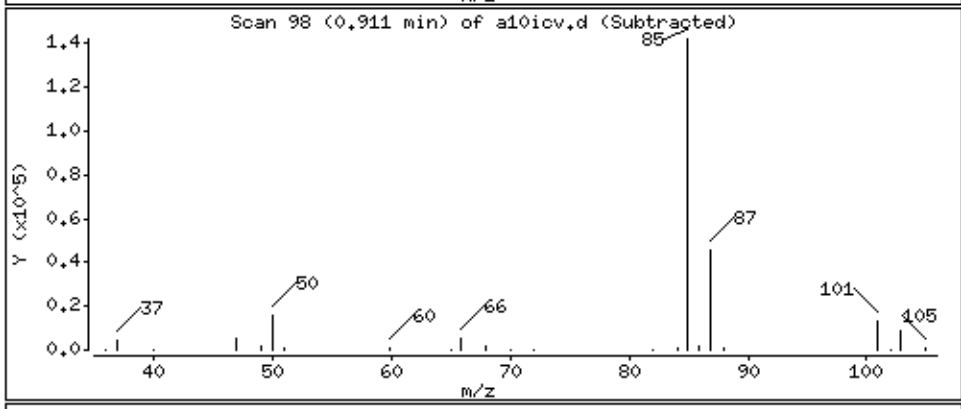
Column phase: DB-624

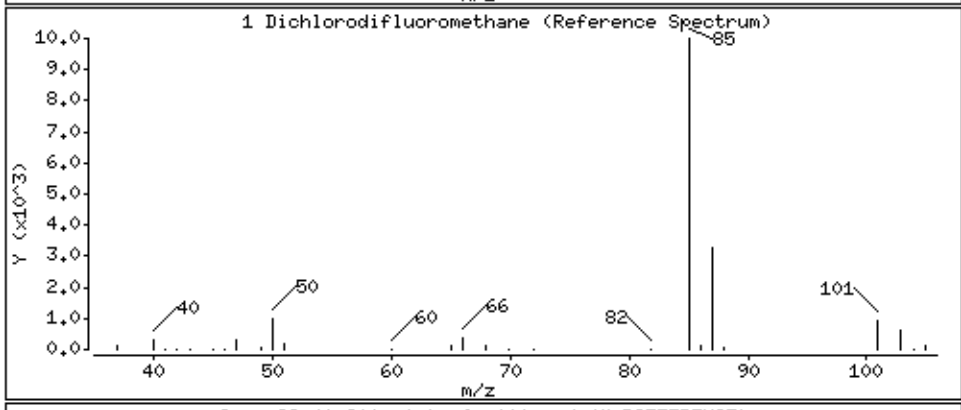
Column diameter: 0.18

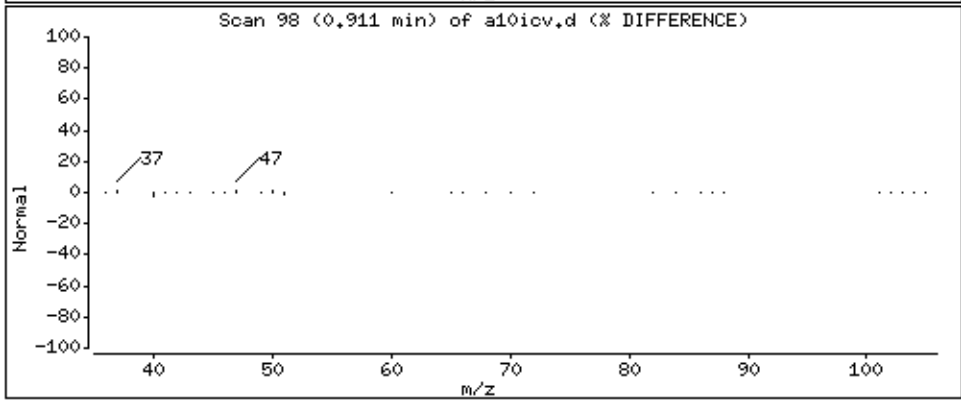
1 Dichlorodifluoromethane

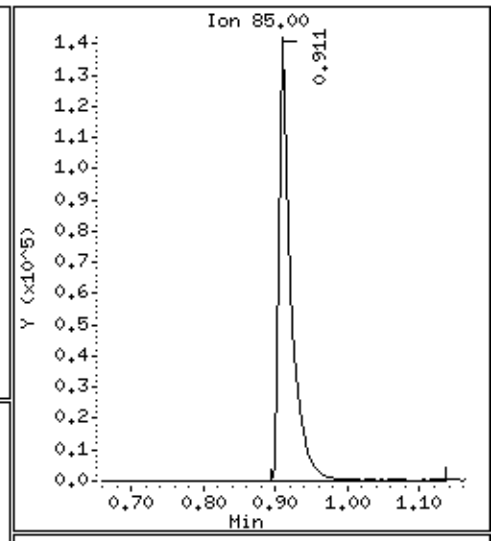
Concentration: 50.3 ppb

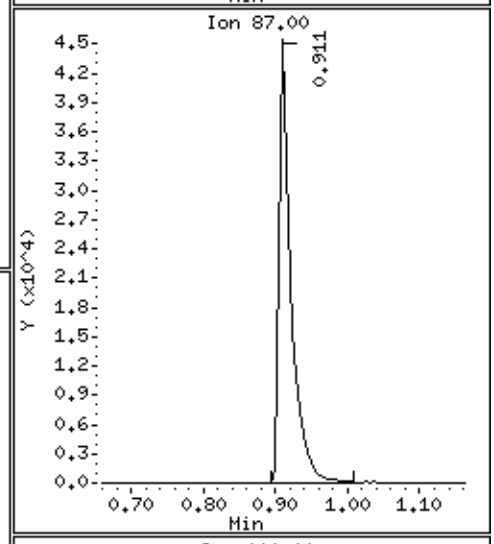


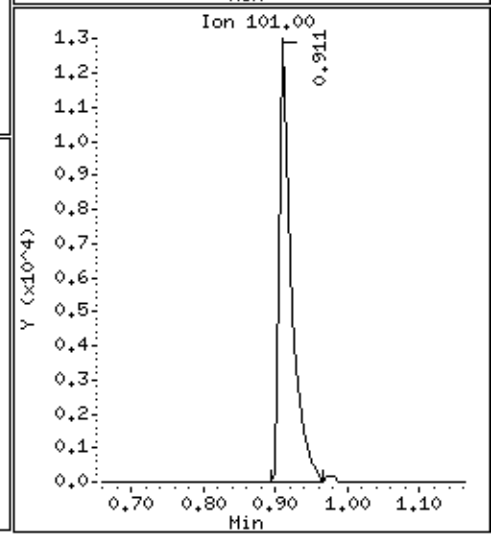












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

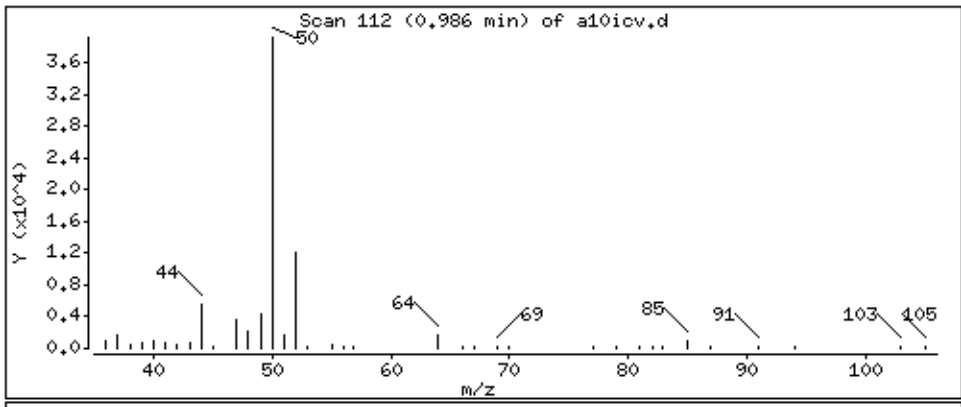
Operator: ala

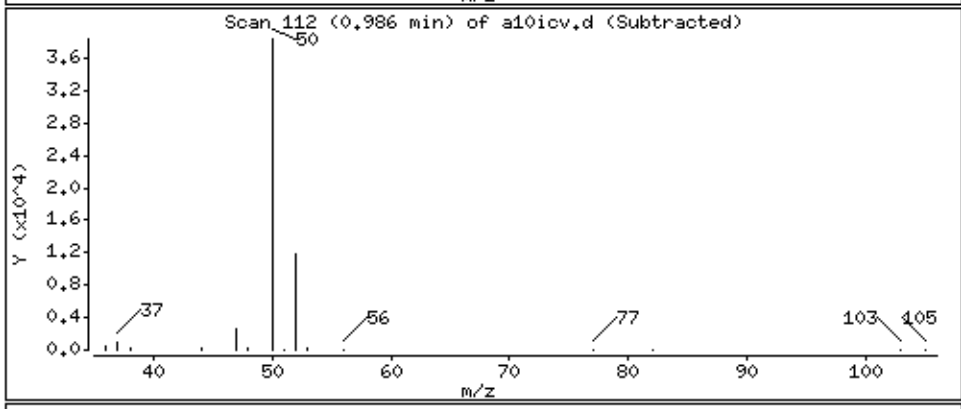
Column phase: DB-624

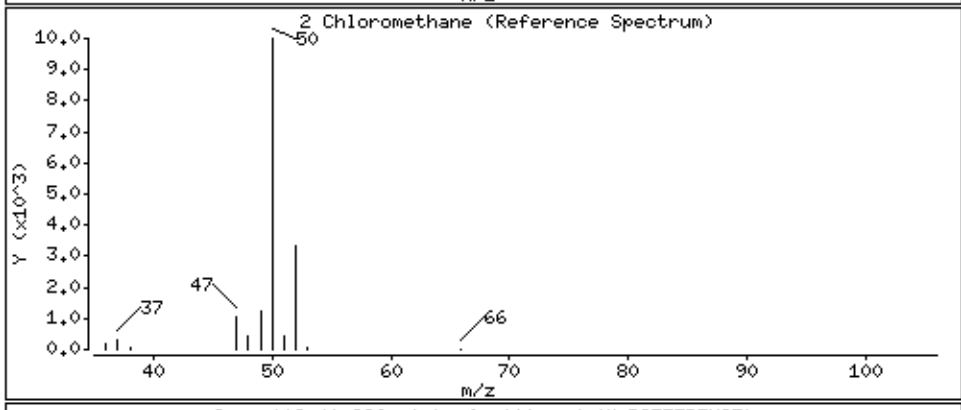
Column diameter: 0.18

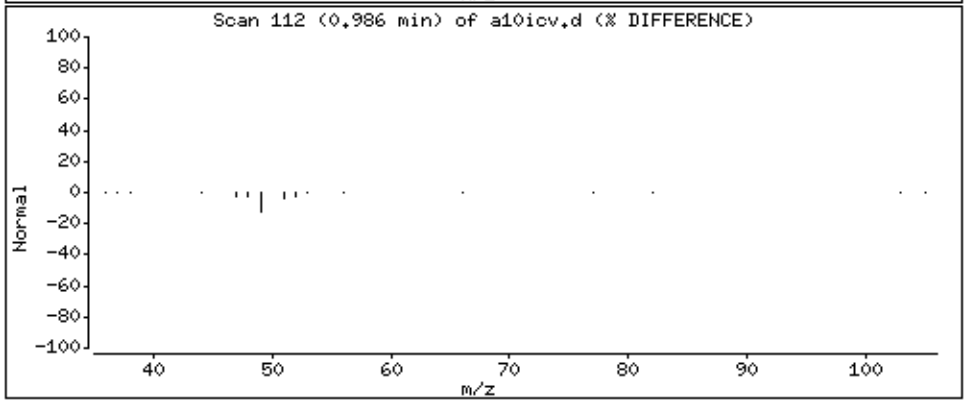
2 Chloromethane

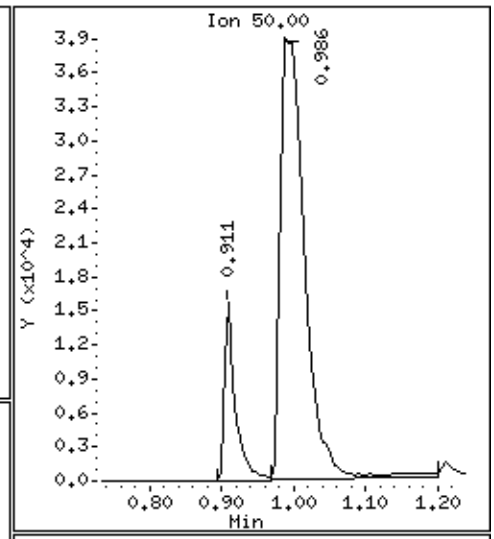
Concentration: 44.4 ppb

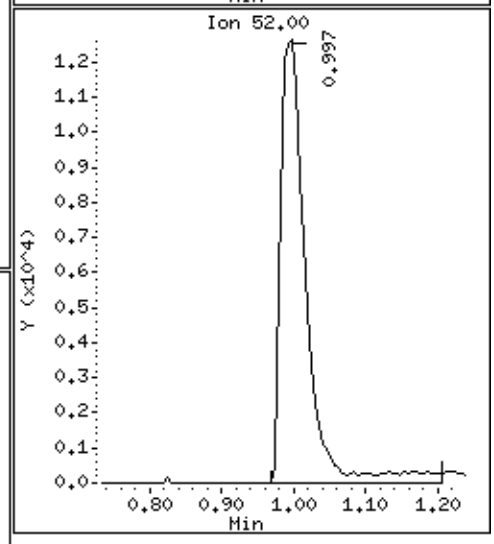












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

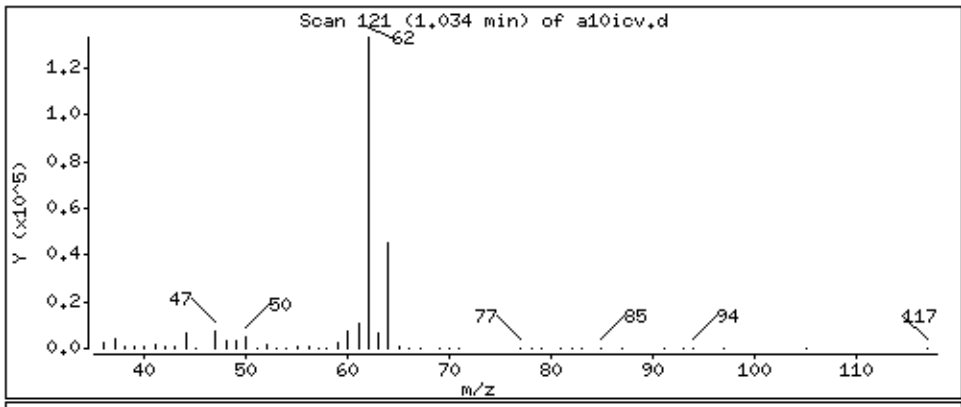
Operator: ala

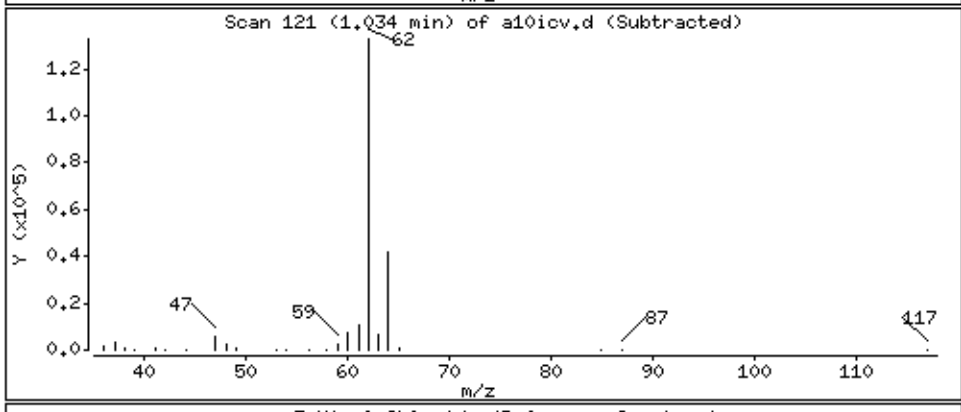
Column phase: DB-624

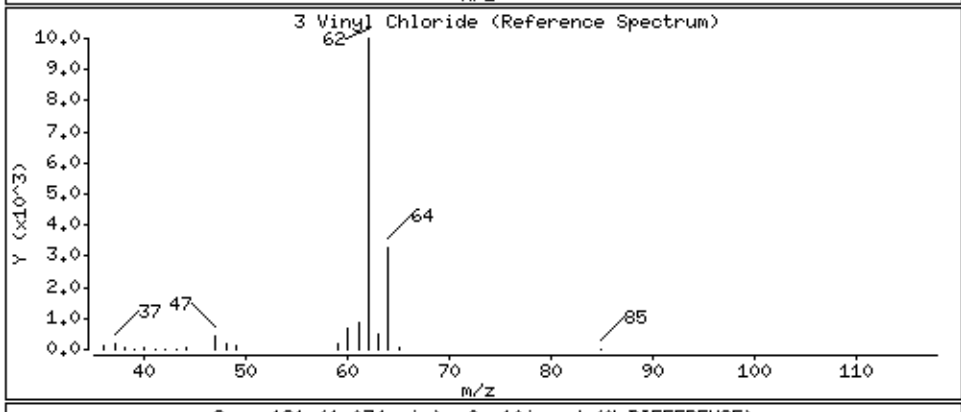
Column diameter: 0.18

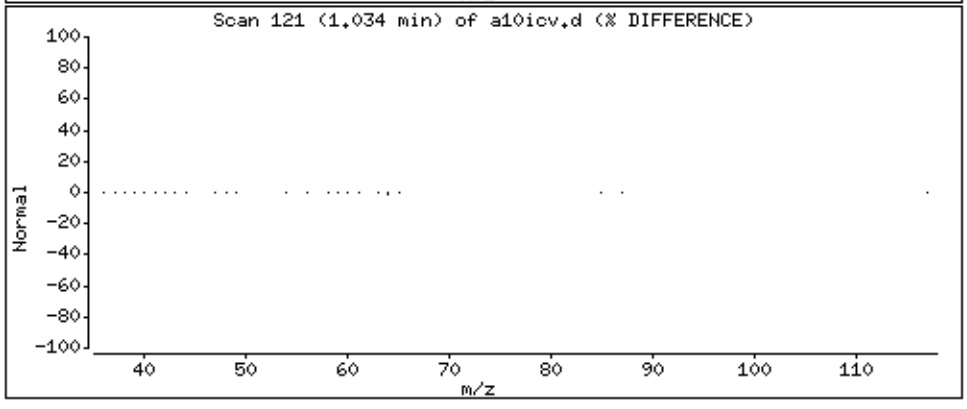
3 Vinyl Chloride

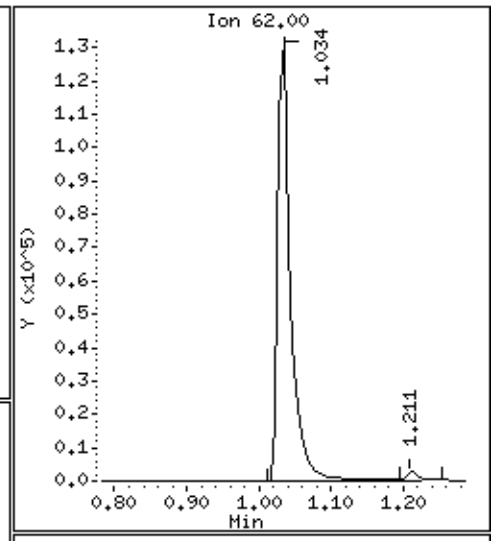
Concentration: 50.6 ppb

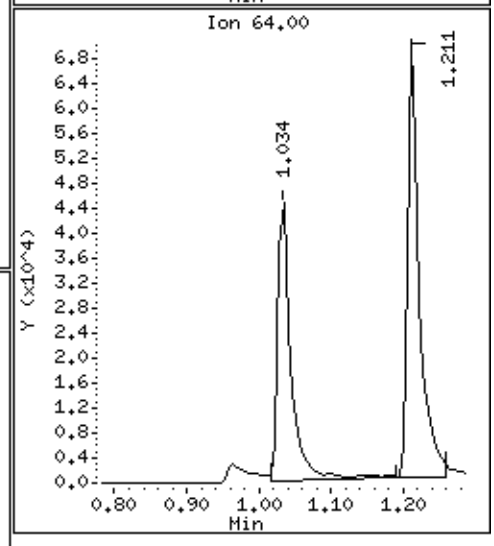












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

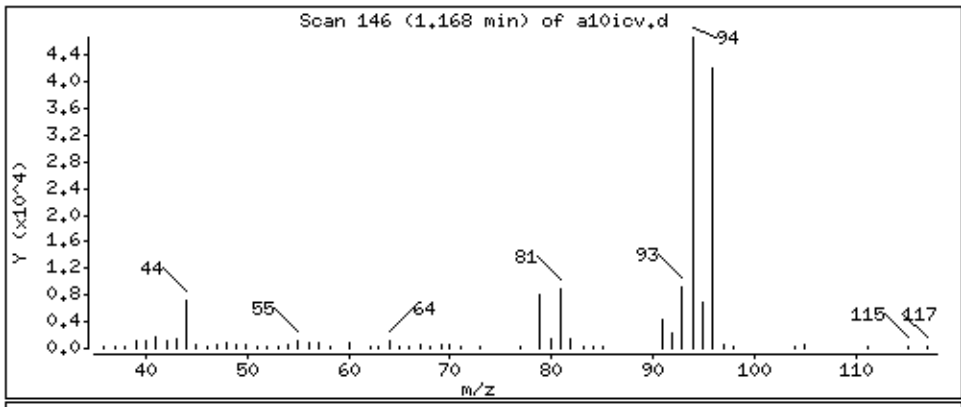
Operator: ala

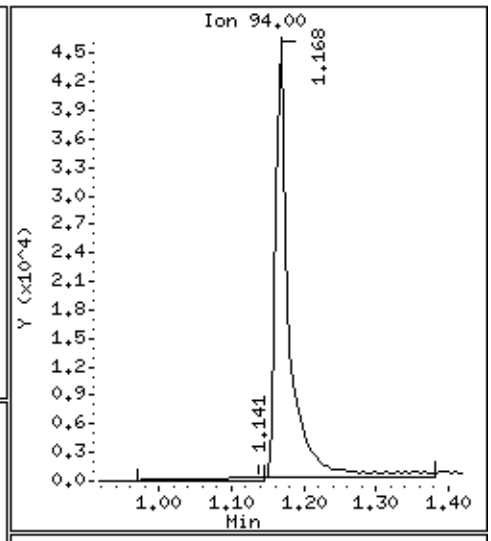
Column phase: DB-624

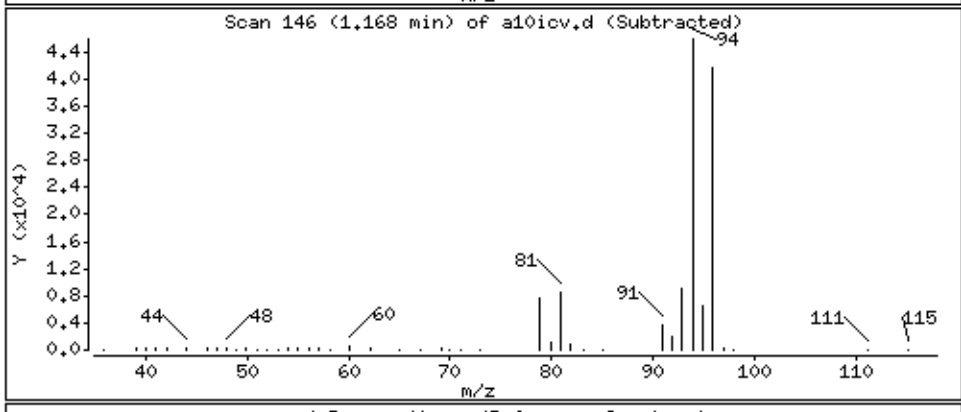
Column diameter: 0.18

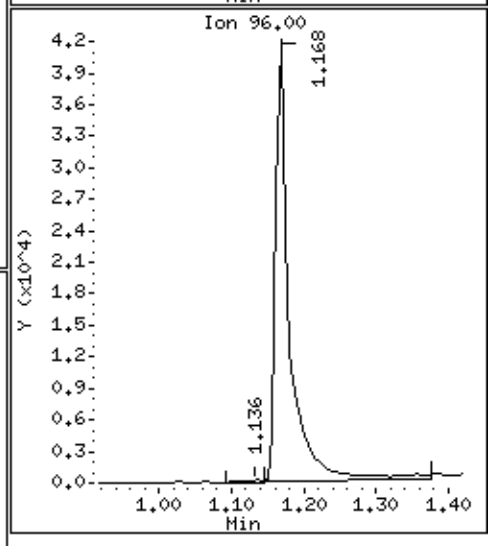
4 Bromomethane

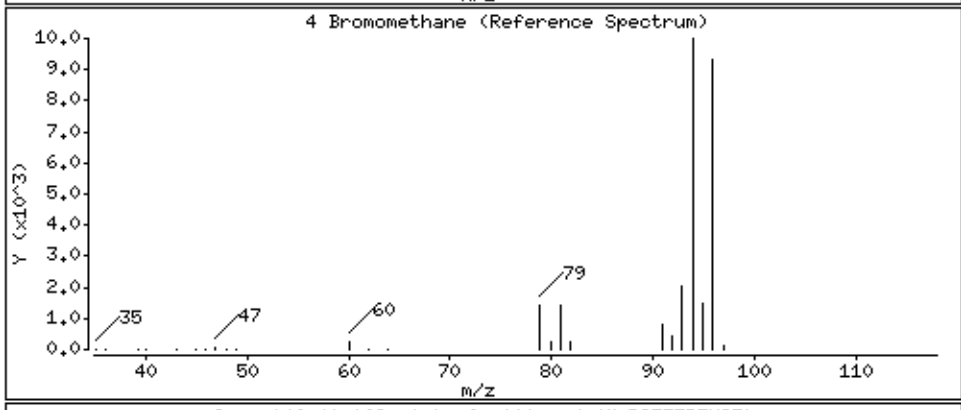
Concentration: 86.9 ppb

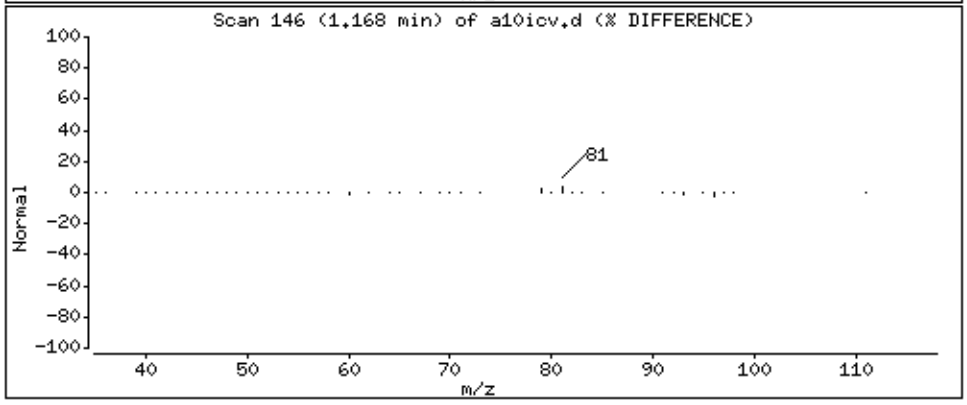












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

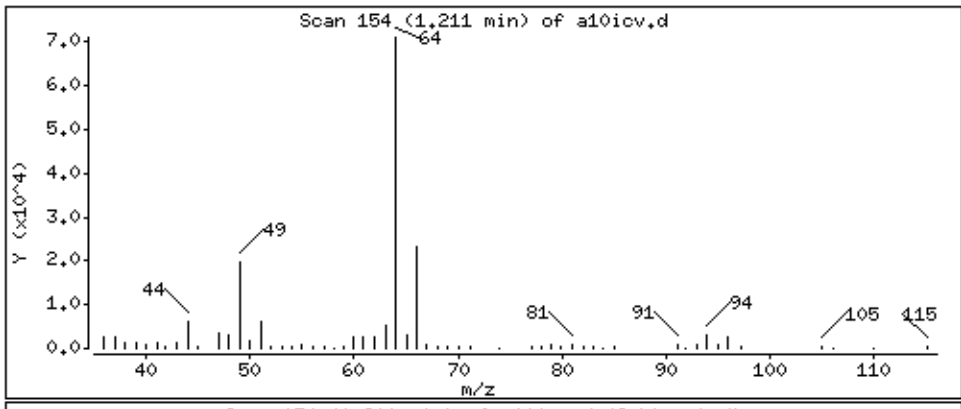
Operator: ala

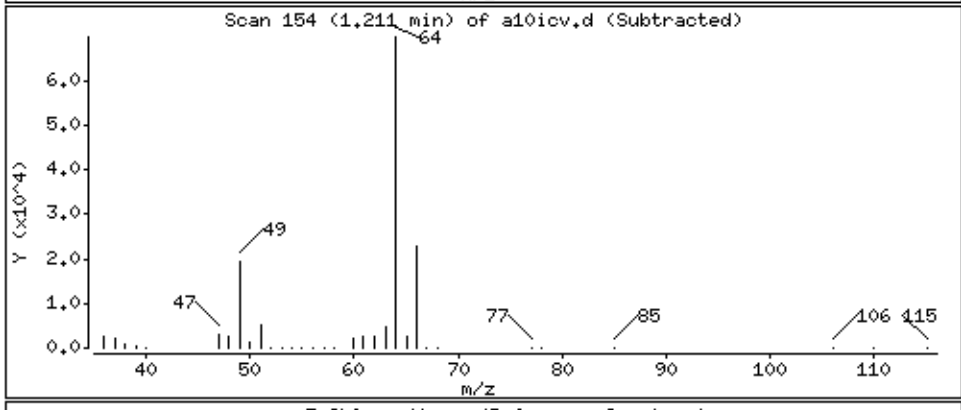
Column phase: DB-624

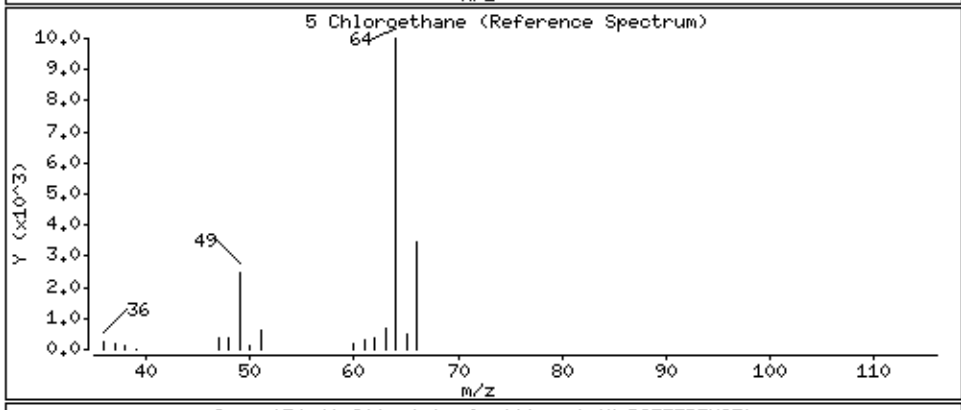
Column diameter: 0.18

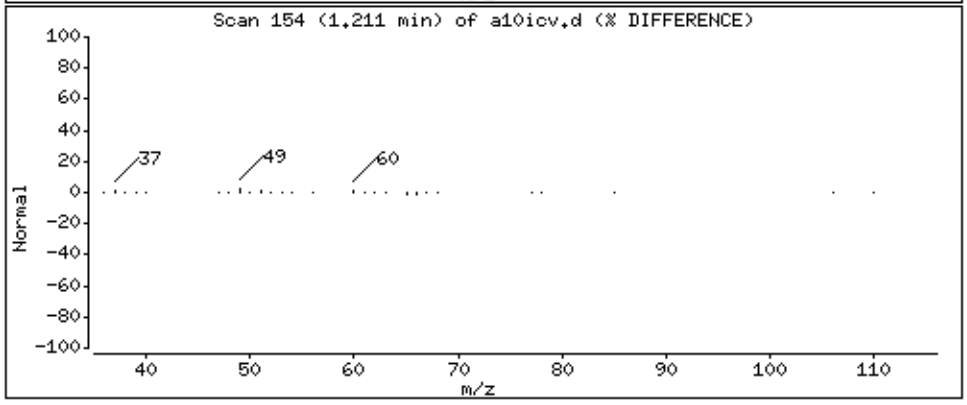
5 Chloroethane

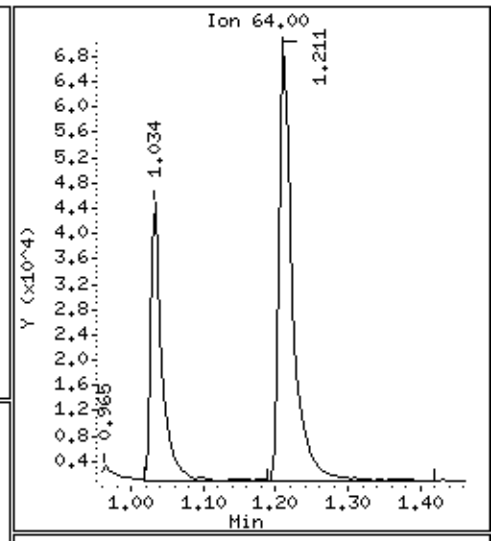
Concentration: 47.0 ppb

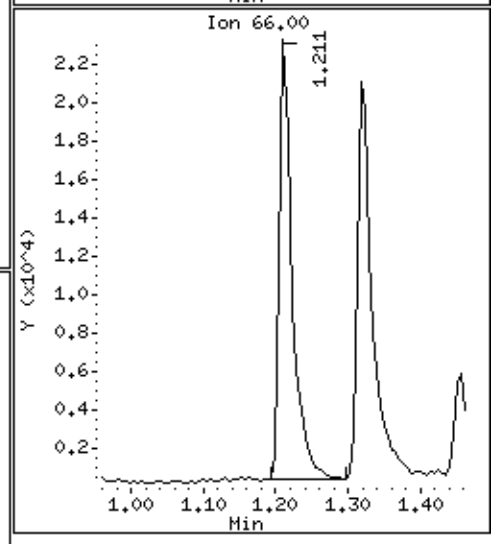












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

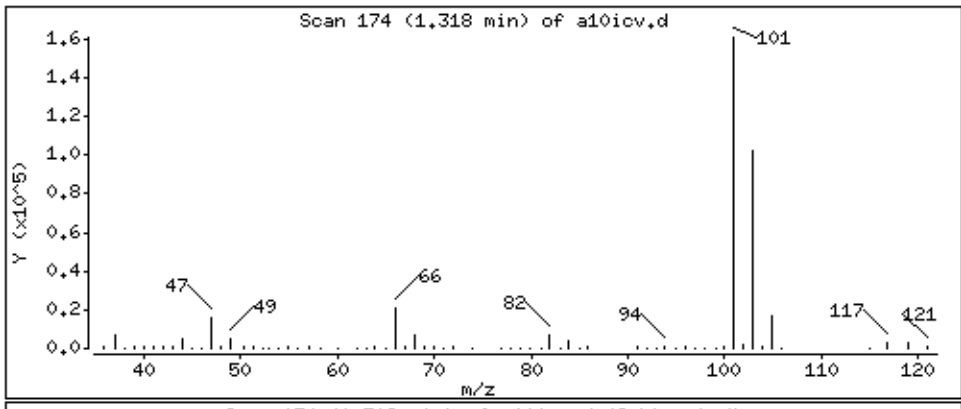
Operator: ala

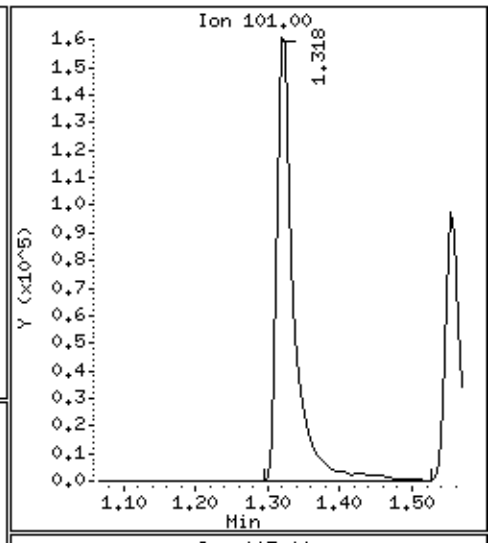
Column phase: DB-624

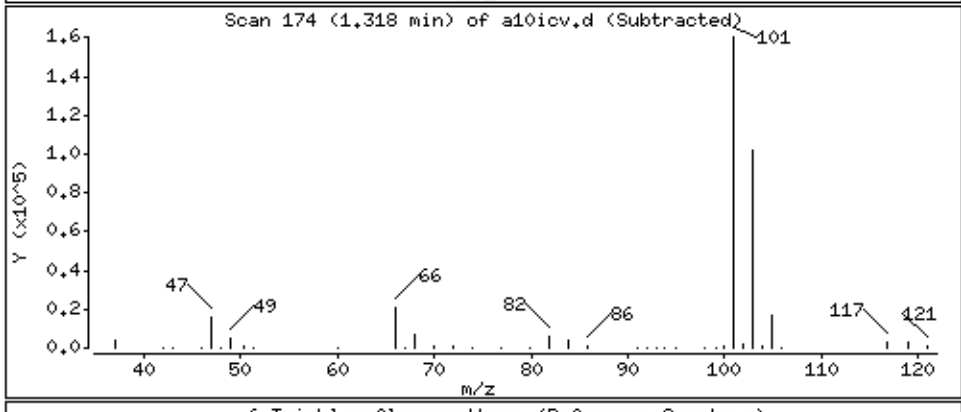
Column diameter: 0.18

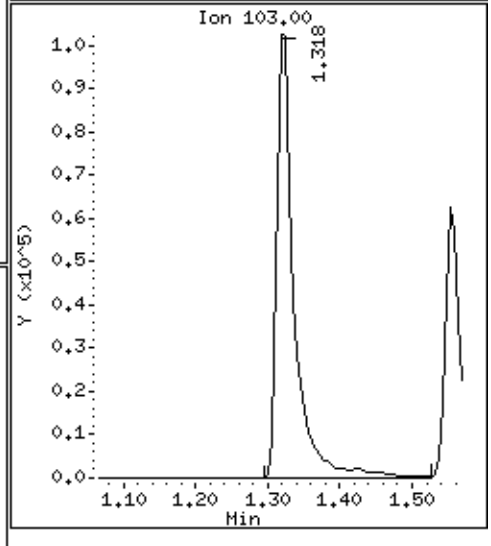
6 Trichlorofluoromethane

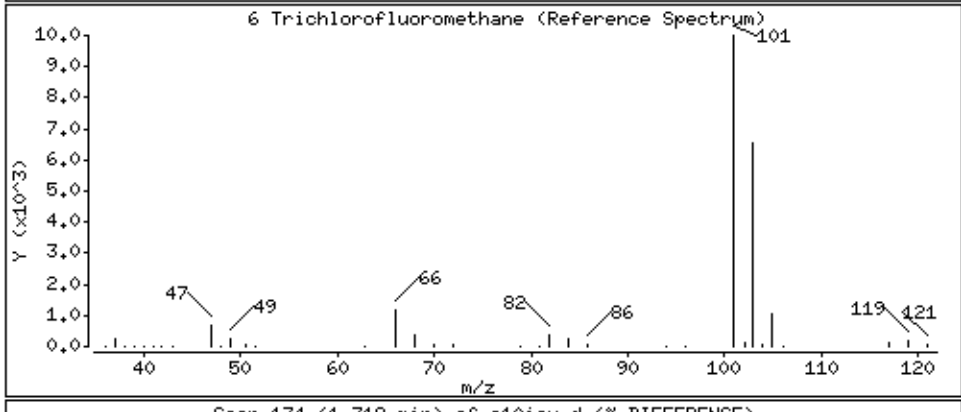
Concentration: 53.3 ppb

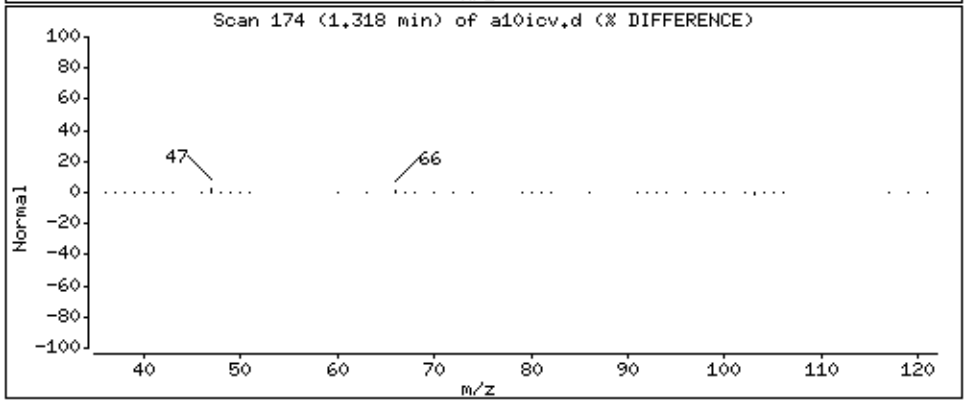












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 11

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

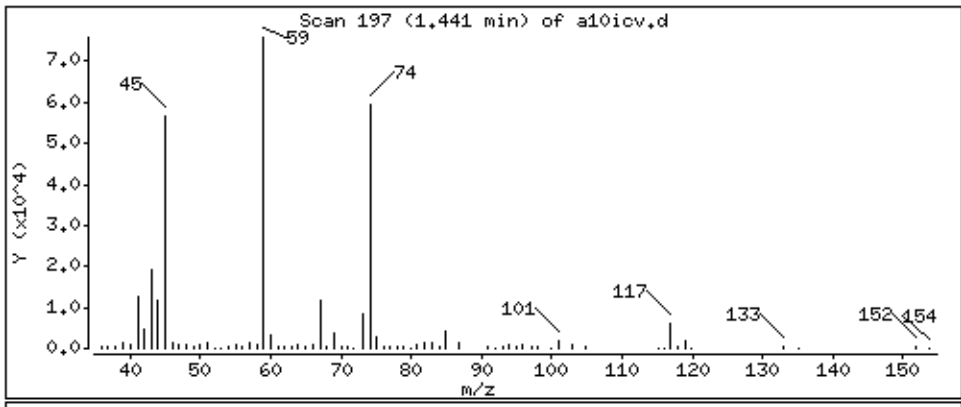
Operator: ala

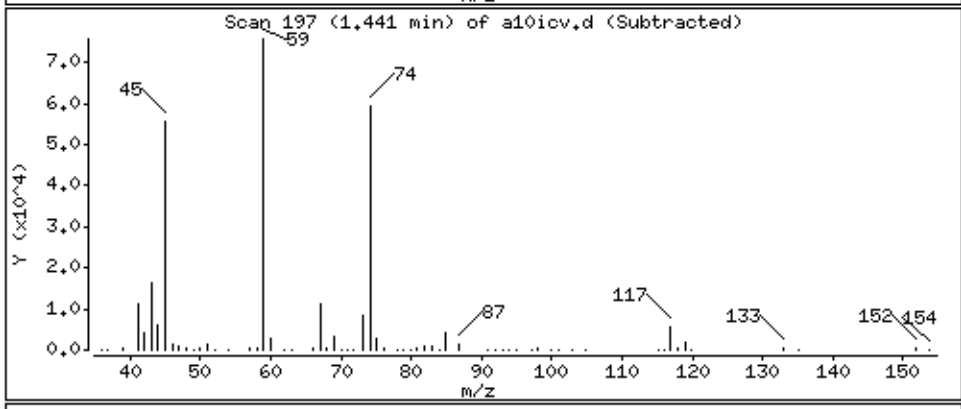
Column phase: DB-624

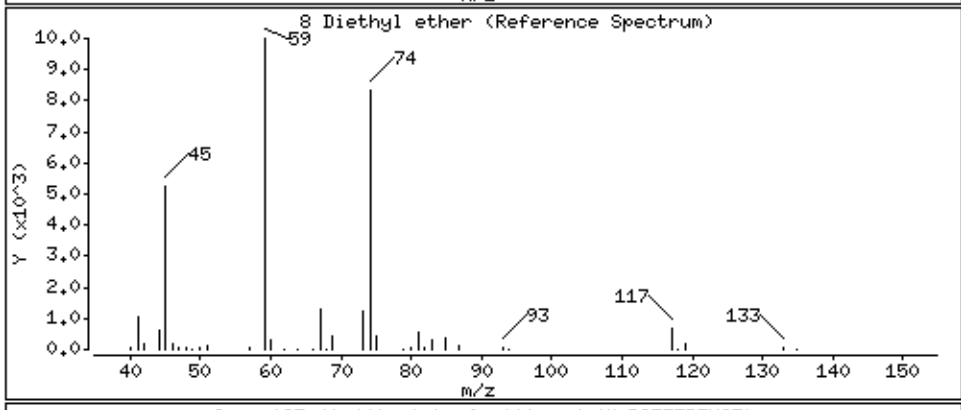
Column diameter: 0.18

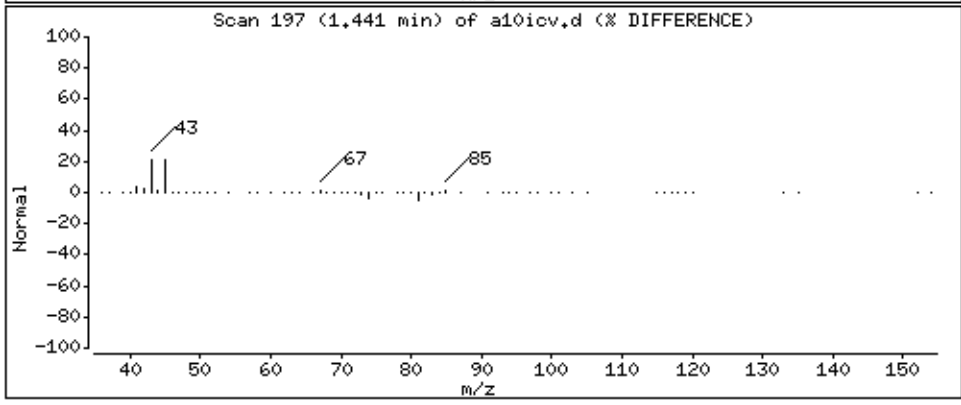
8 Diethyl ether

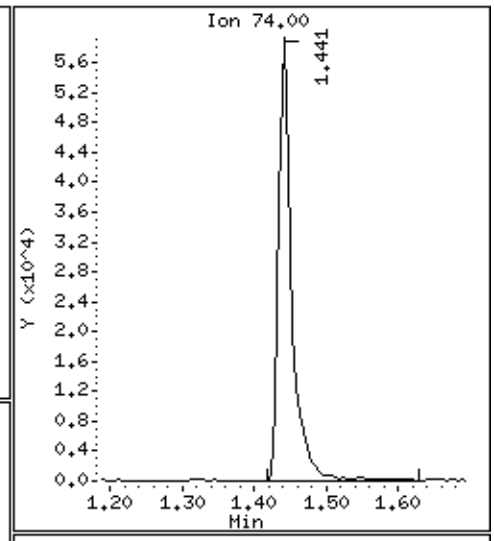
Concentration: 44.0 ppb

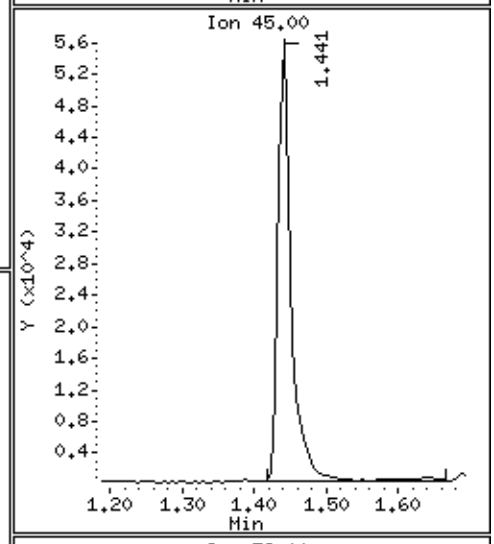


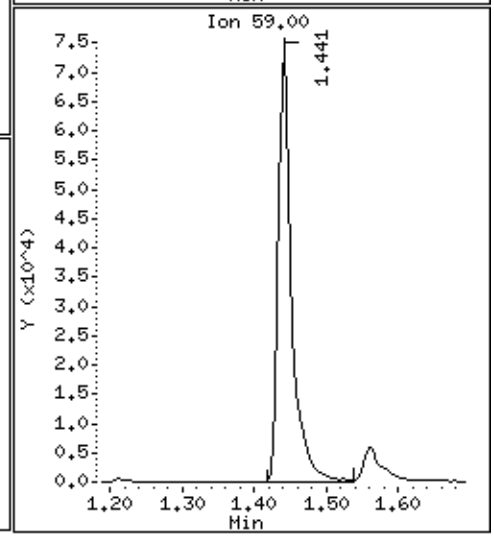












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

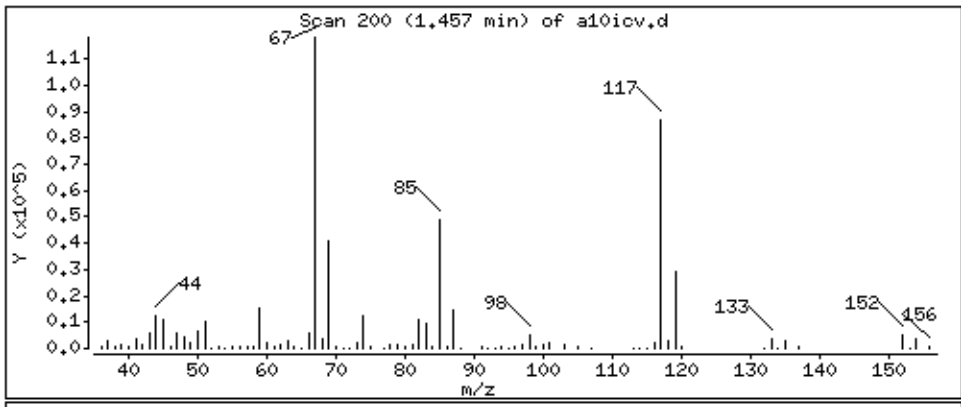
Operator: ala

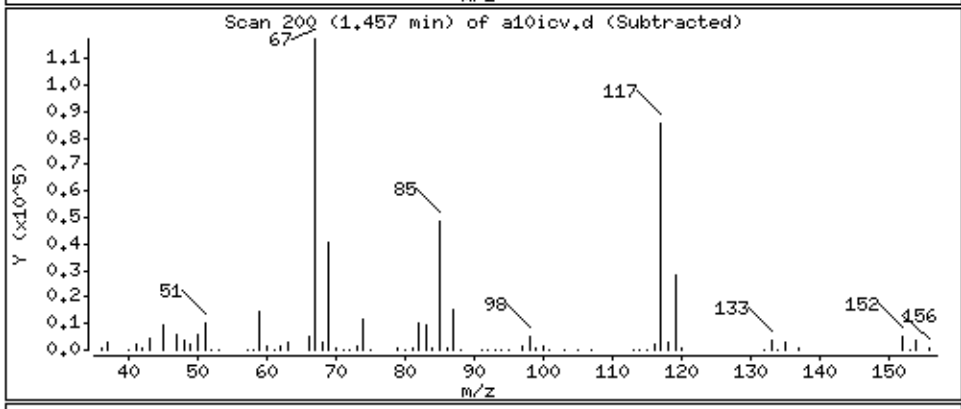
Column phase: DB-624

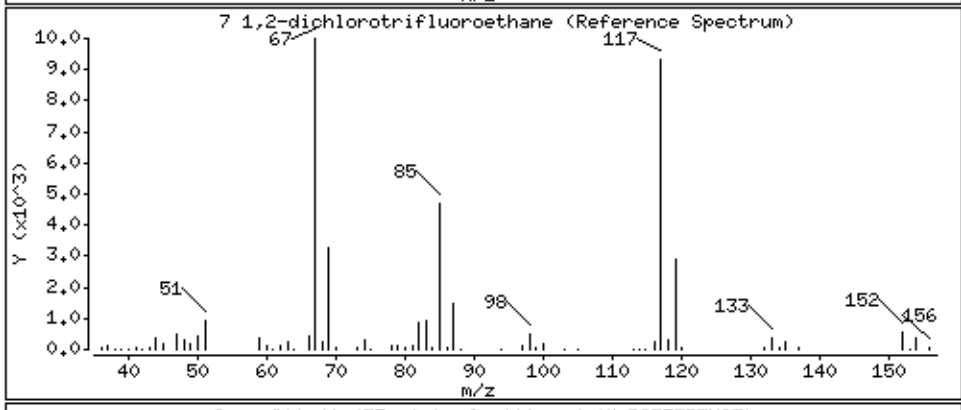
Column diameter: 0.18

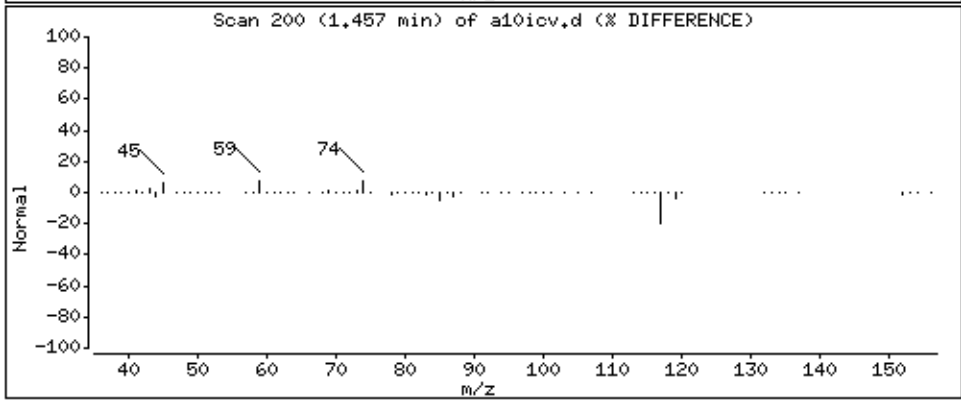
7 1,2-dichlorotrifluoroethane

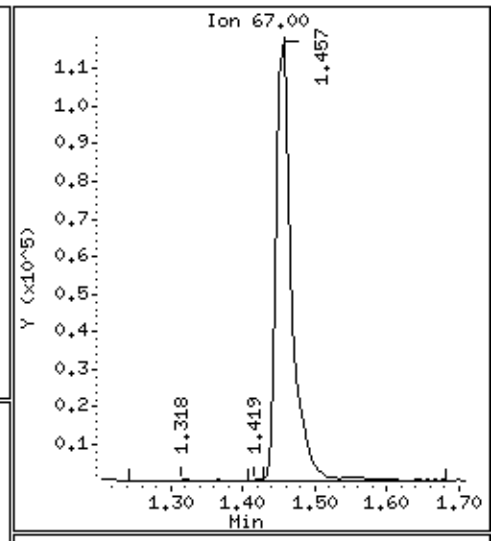
Concentration: 45.7 ppb

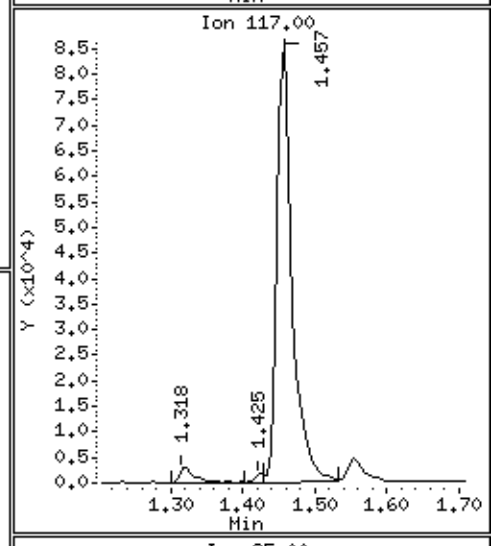


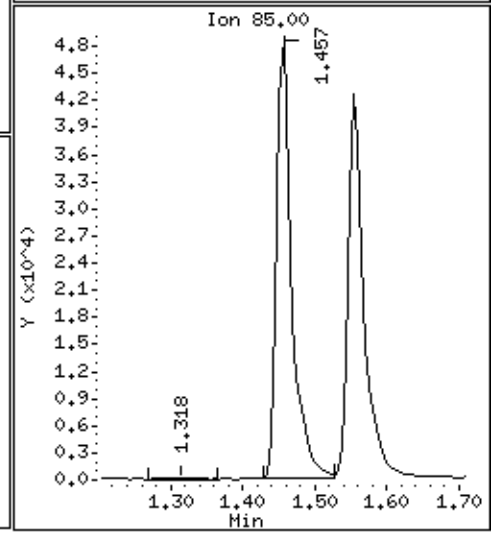












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

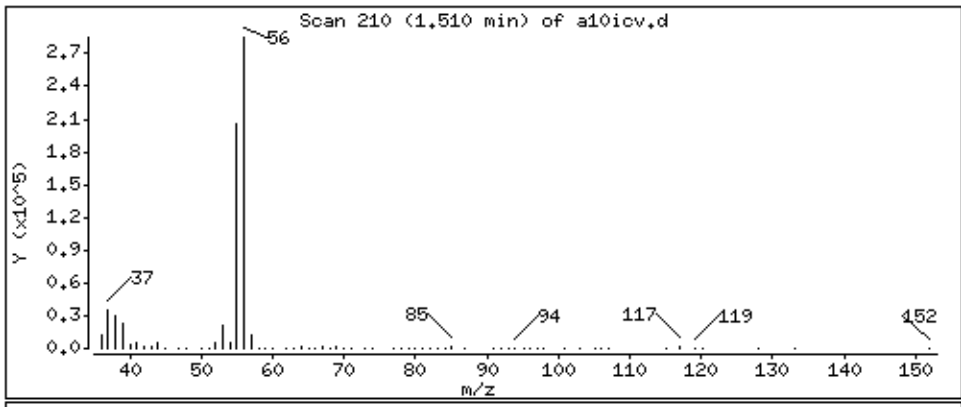
Operator: ala

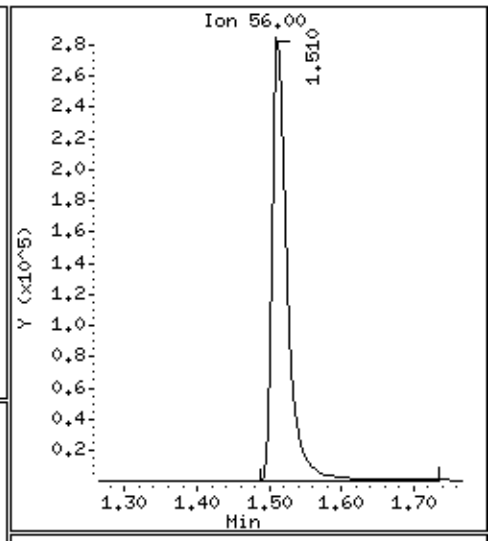
Column phase: DB-624

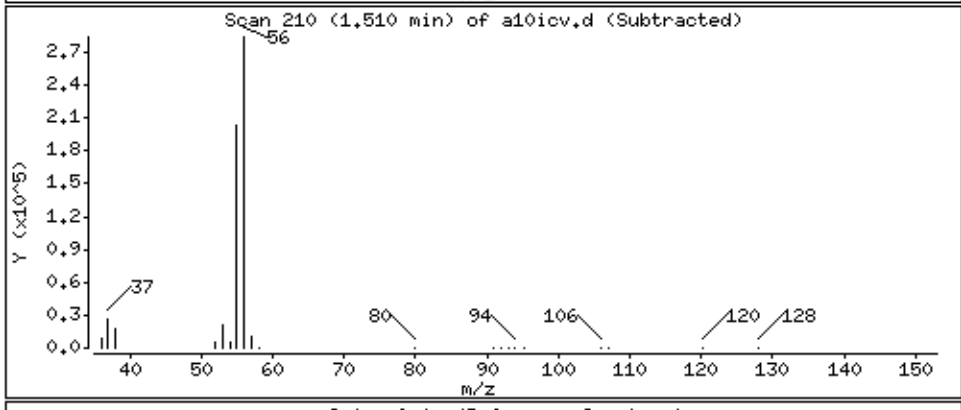
Column diameter: 0.18

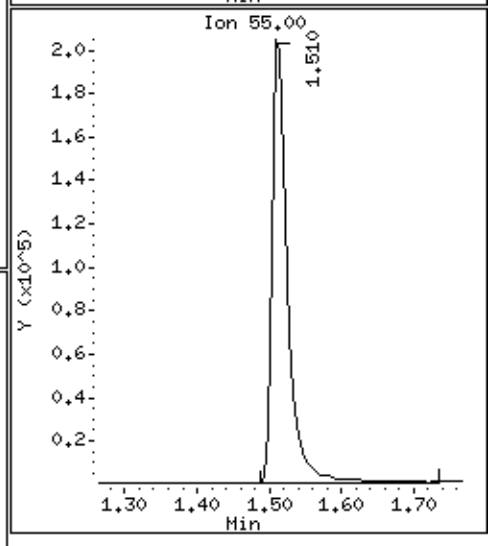
9 Acrolein

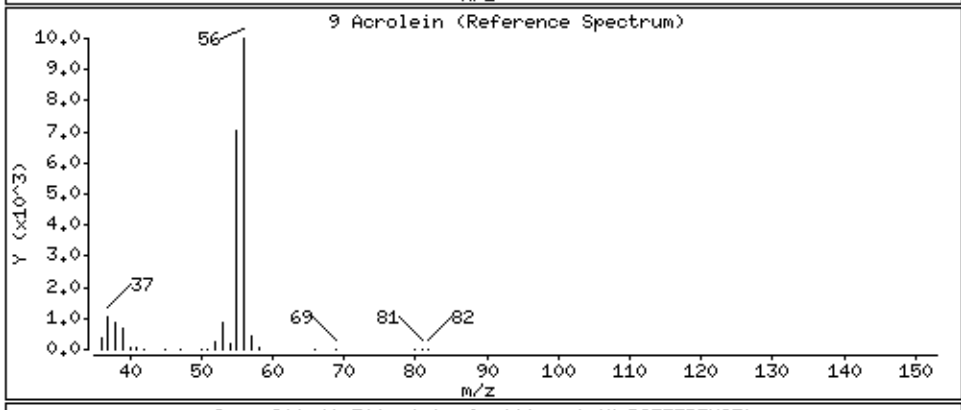
Concentration: 1190 ppb

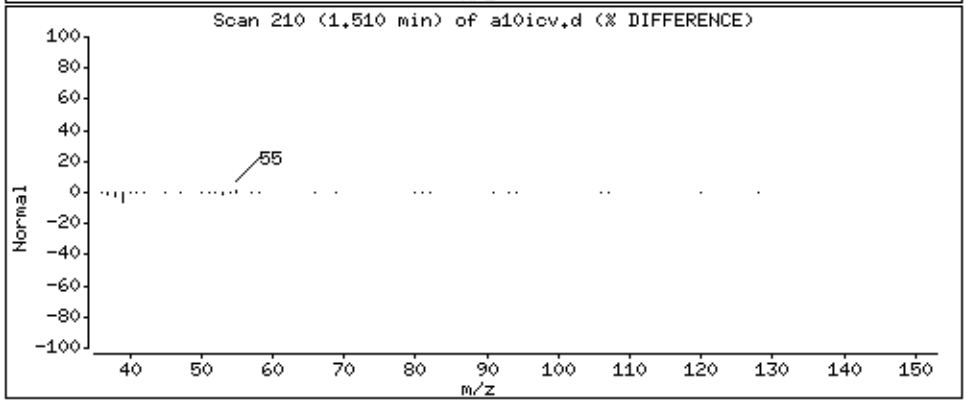












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

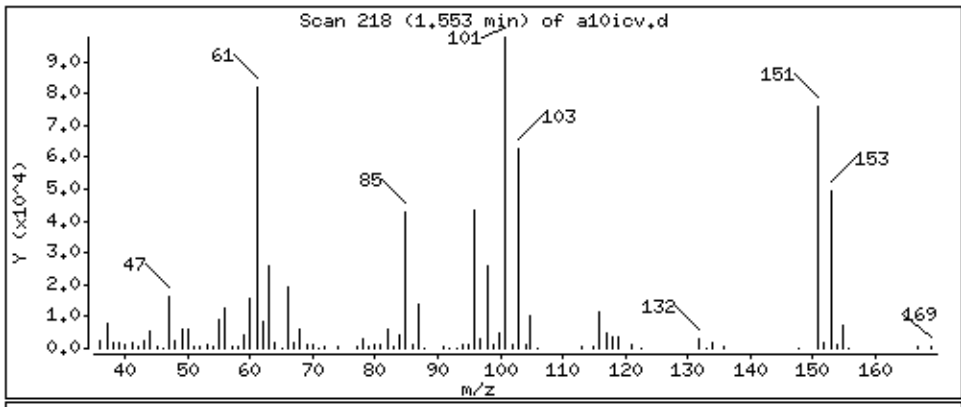
Operator: ala

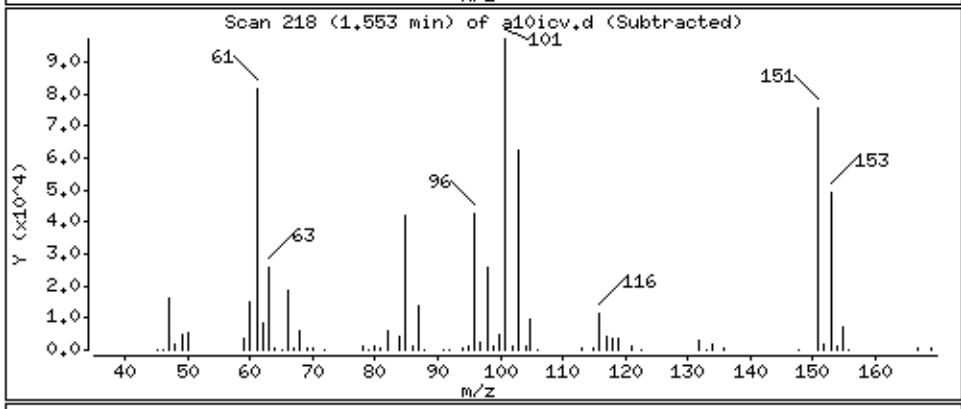
Column phase: DB-624

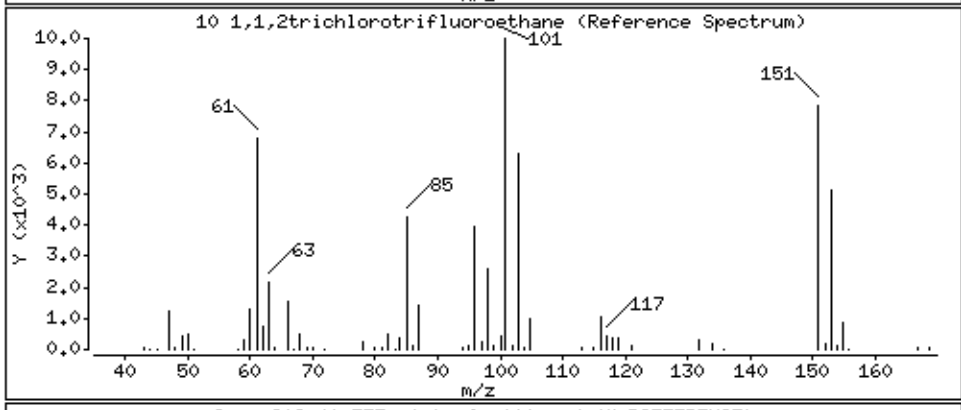
Column diameter: 0.18

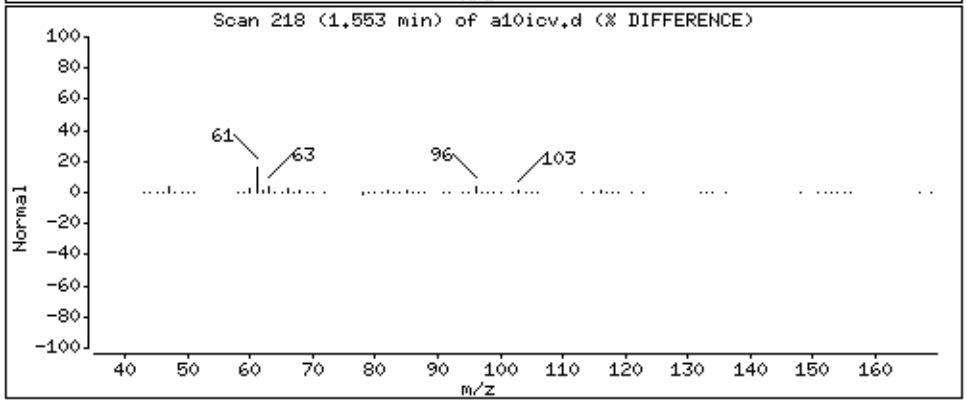
10 1,1,2trichlorotrifluoroethane

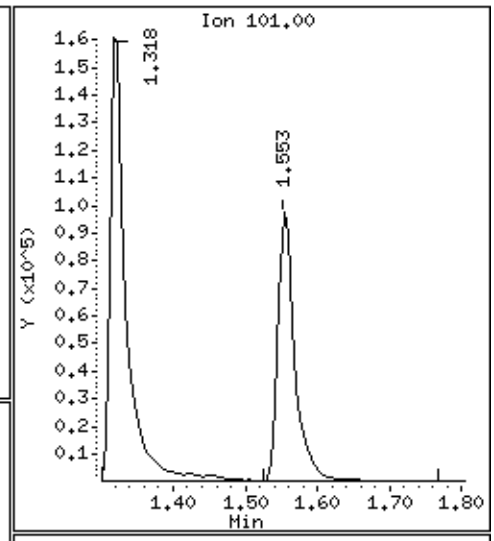
Concentration: 43.7 ppb

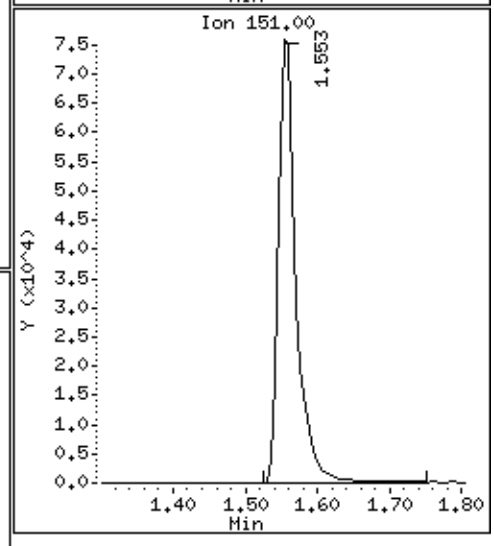












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

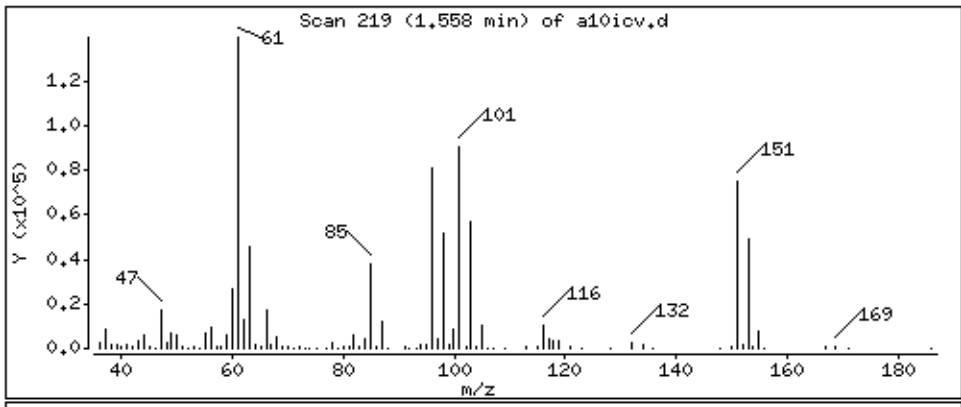
Operator: ala

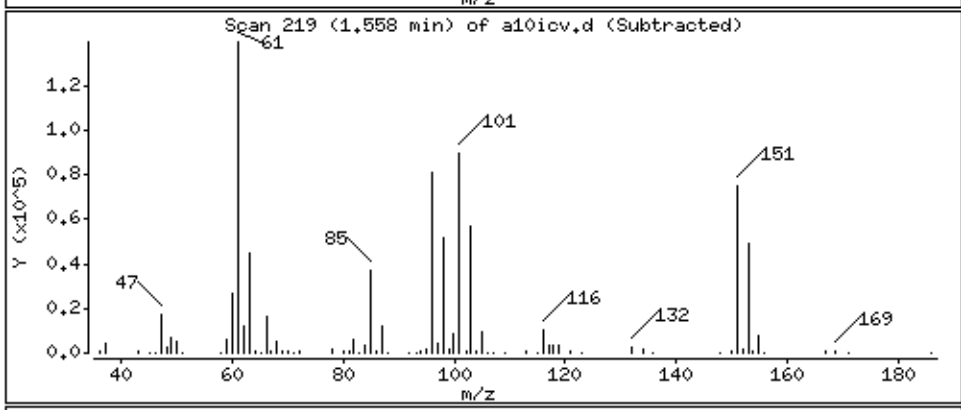
Column phase: DB-624

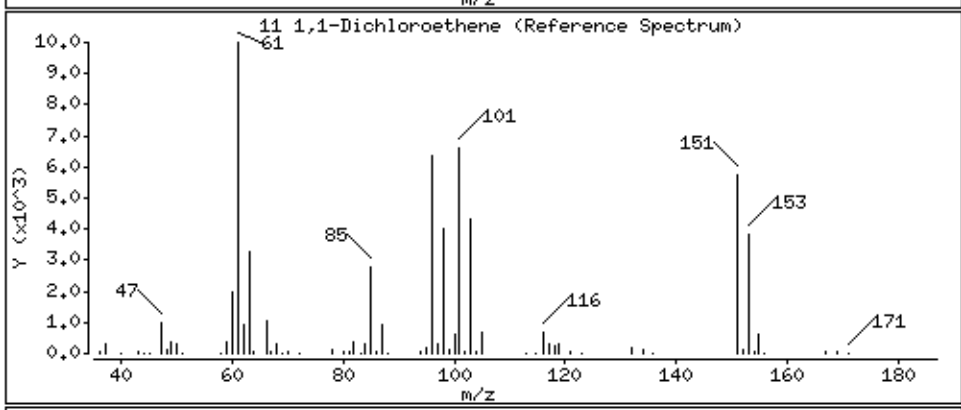
Column diameter: 0.18

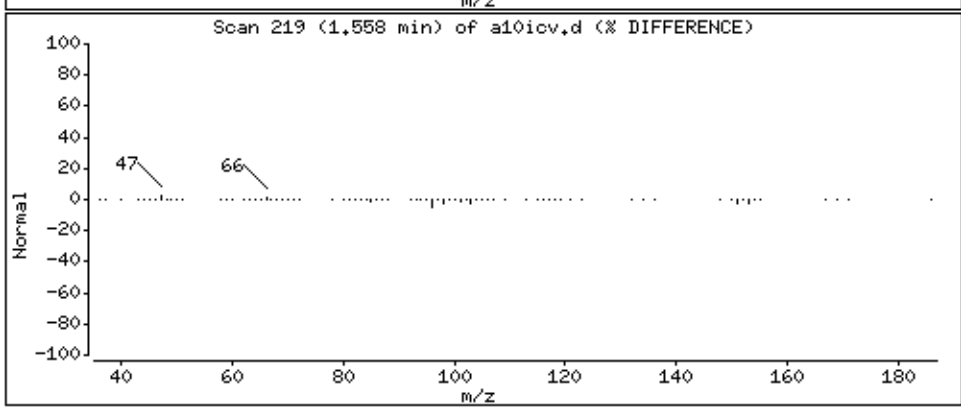
11 1,1-Dichloroethene

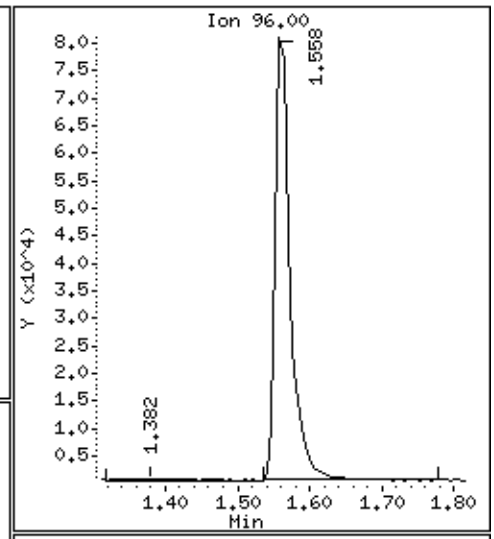
Concentration: 43.2 ppb

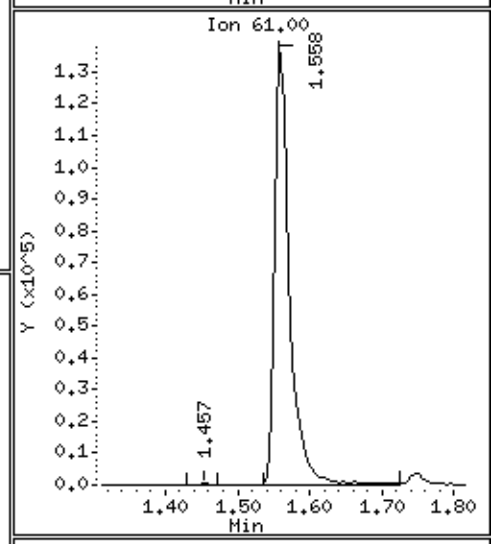


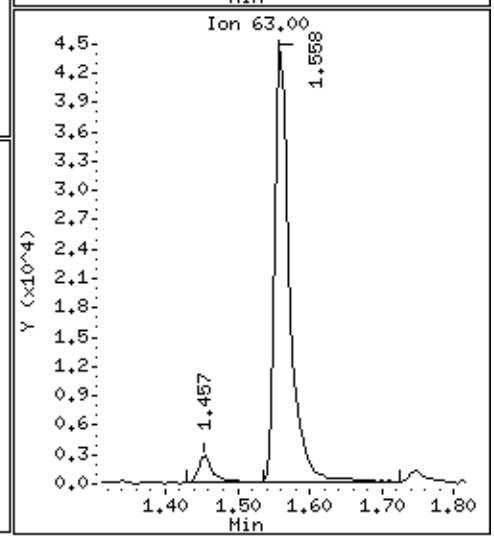












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

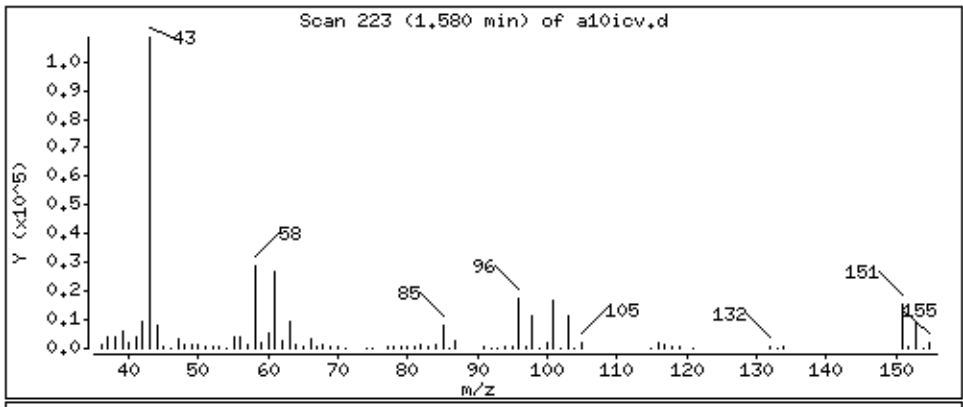
Operator: ala

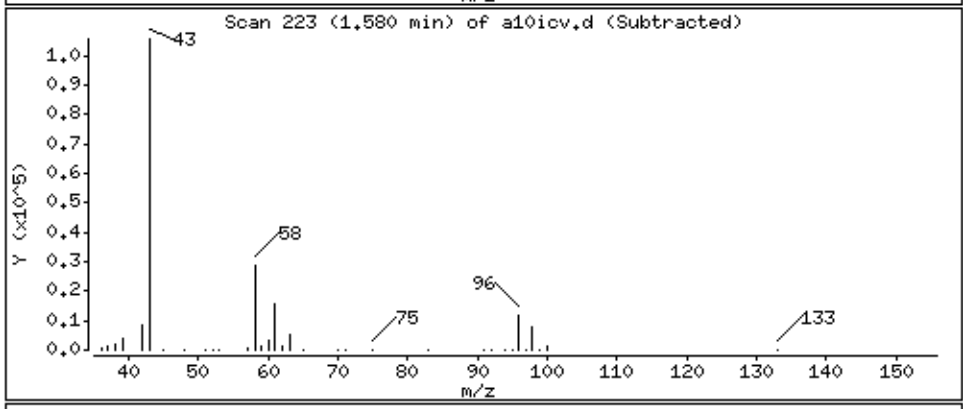
Column phase: DB-624

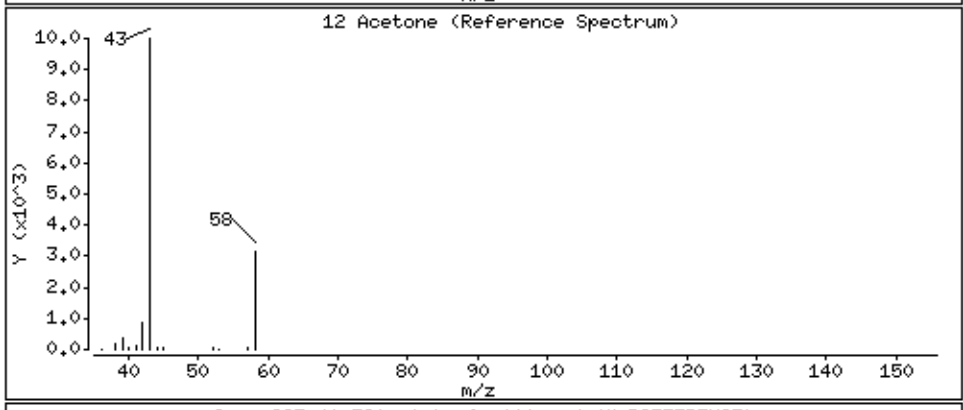
Column diameter: 0.18

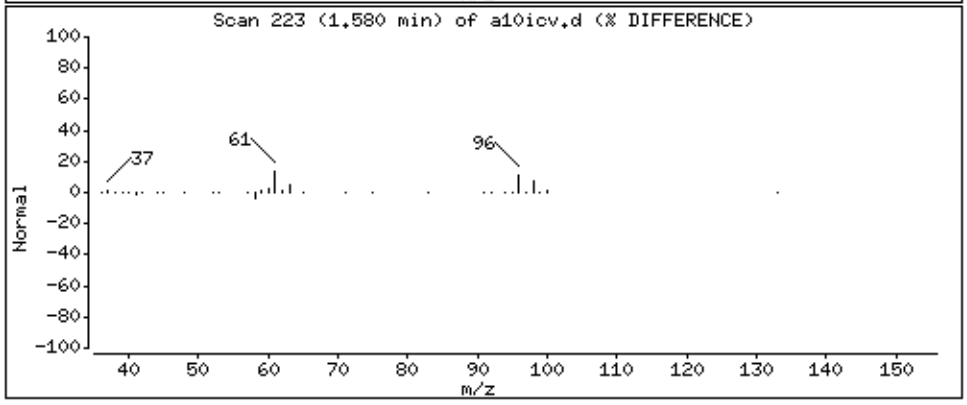
12 Acetone

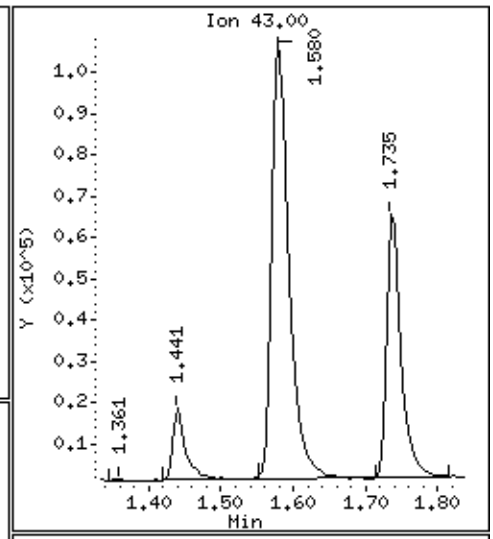
Concentration: 214 ppb

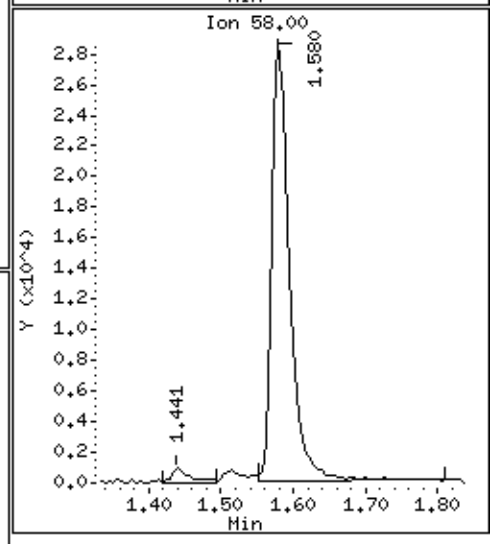












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

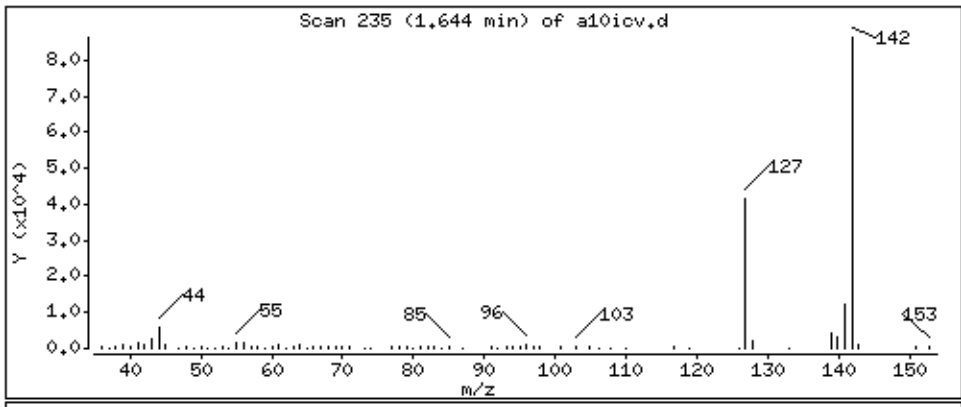
Operator: ala

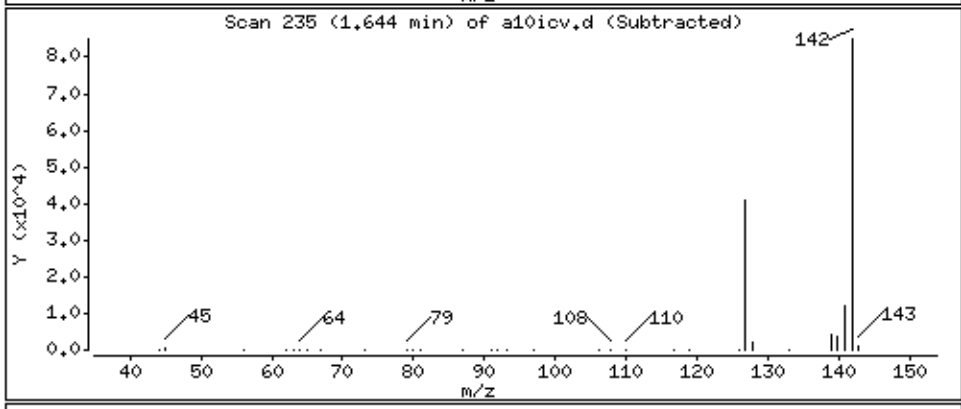
Column phase: DB-624

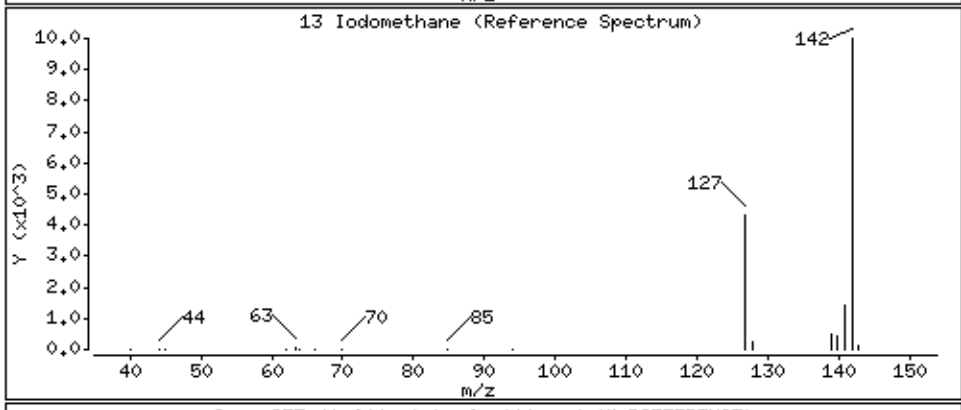
Column diameter: 0.18

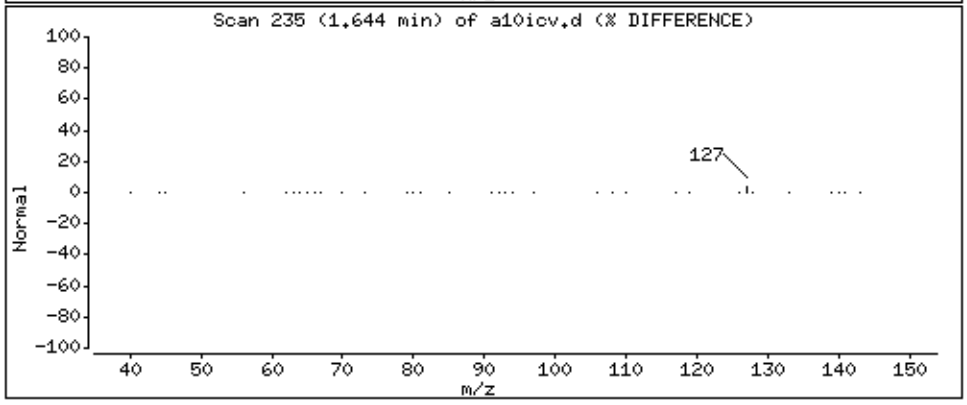
13 Iodomethane

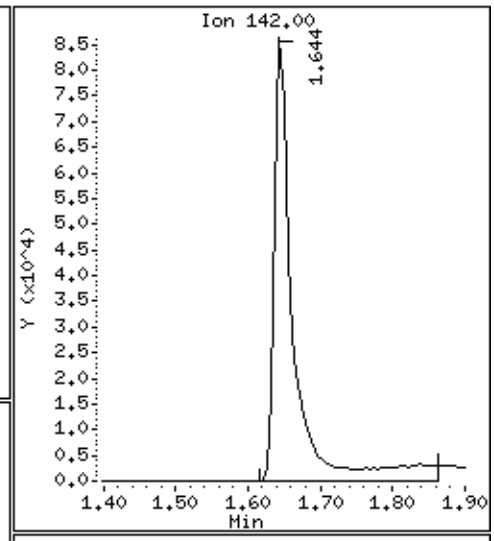
Concentration: 109 ppb

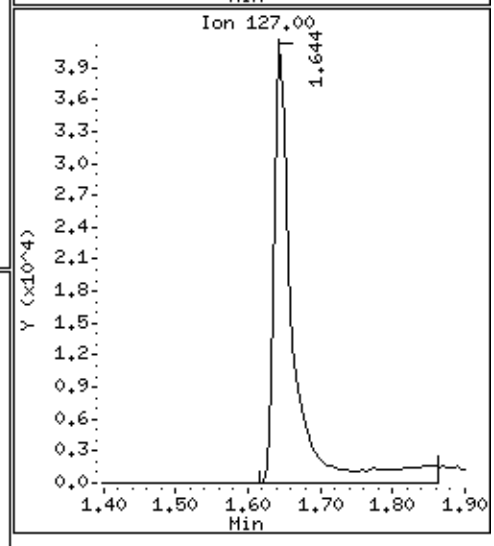












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

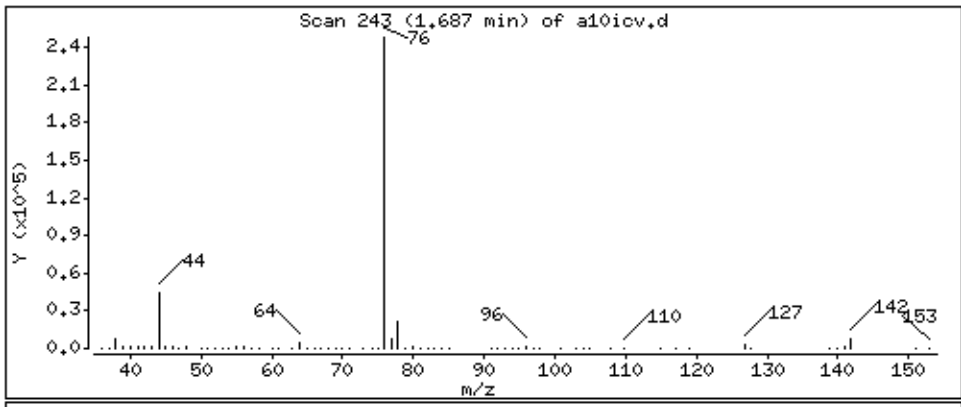
Operator: ala

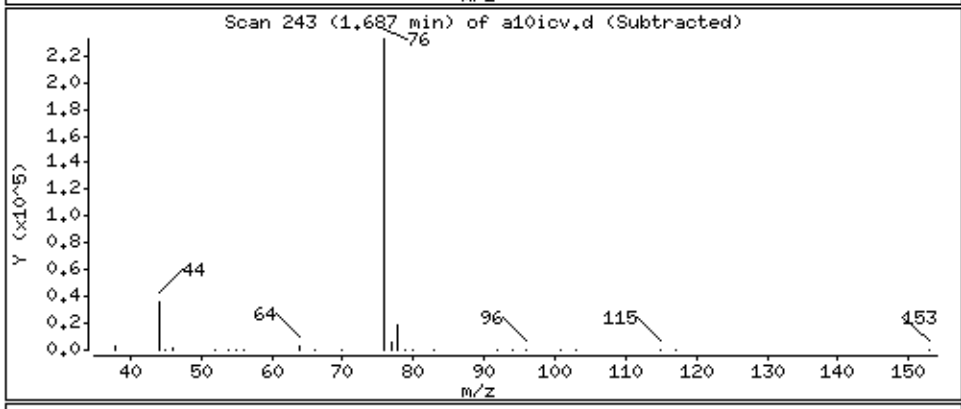
Column phase: DB-624

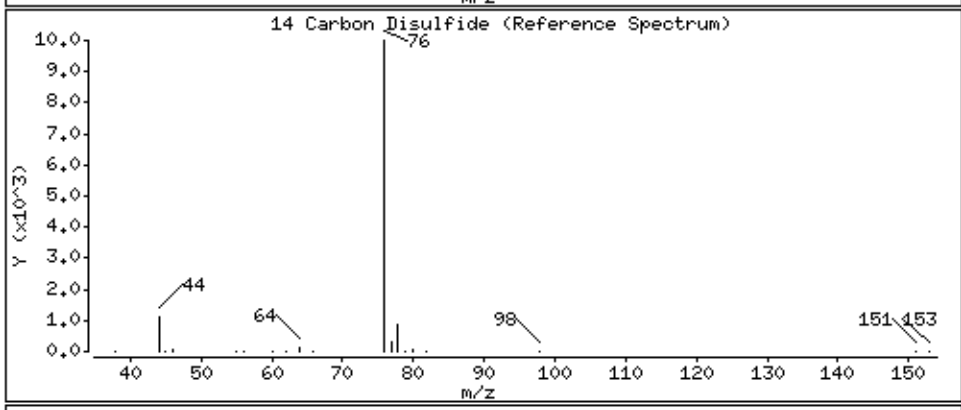
Column diameter: 0.18

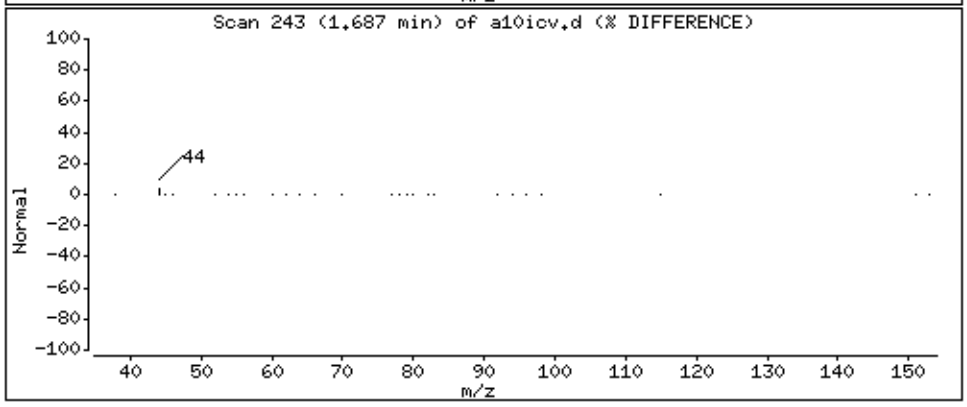
14 Carbon Disulfide

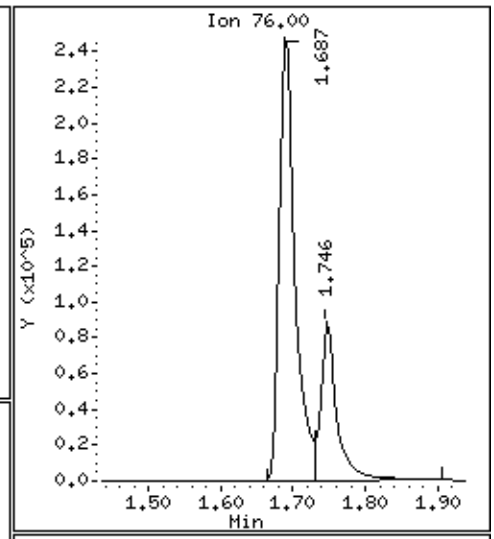
Concentration: 47.1 ppb

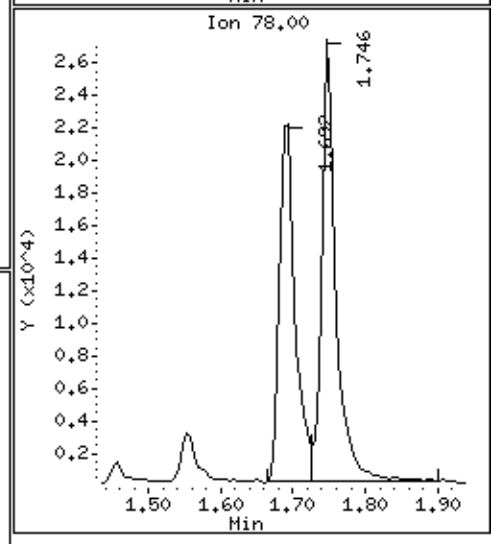












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

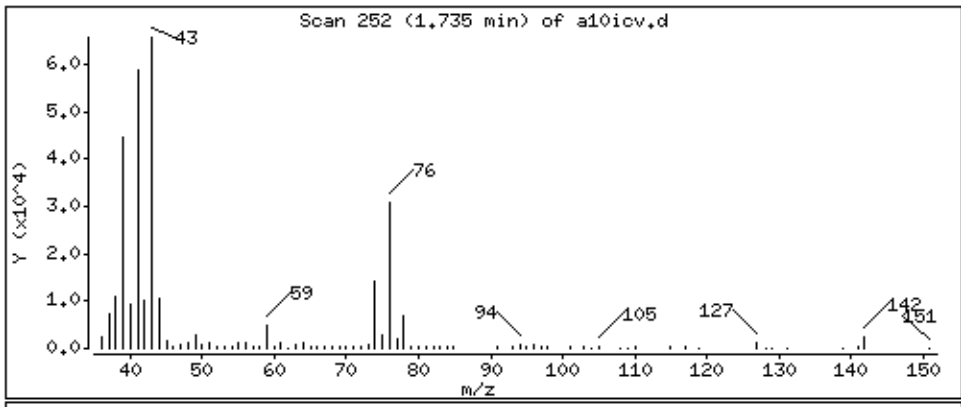
Operator: ala

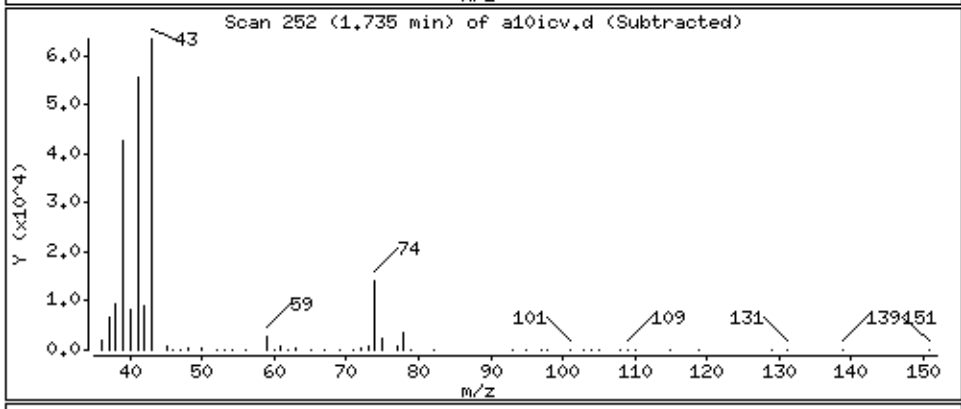
Column phase: DB-624

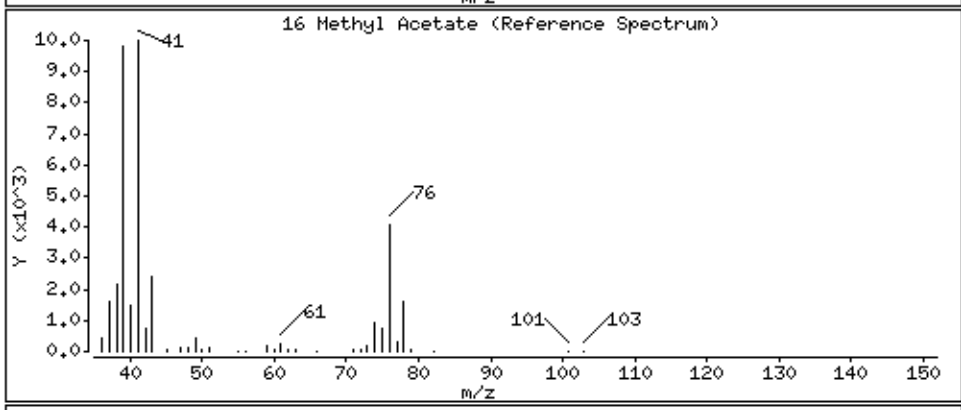
Column diameter: 0.18

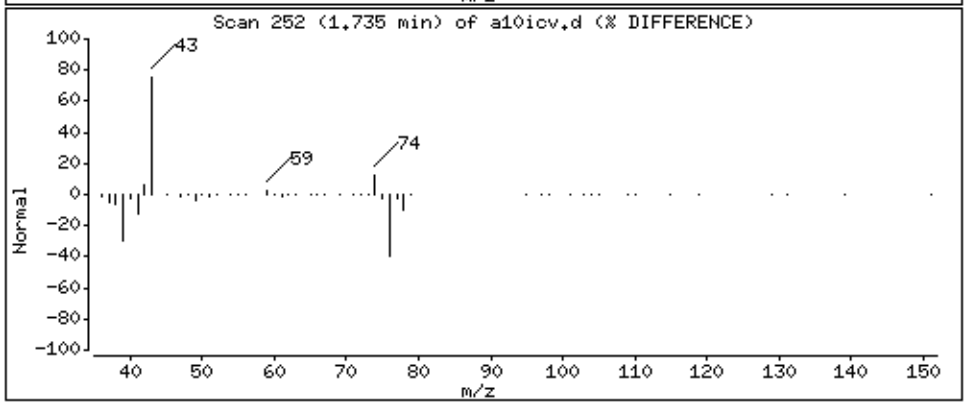
16 Methyl Acetate

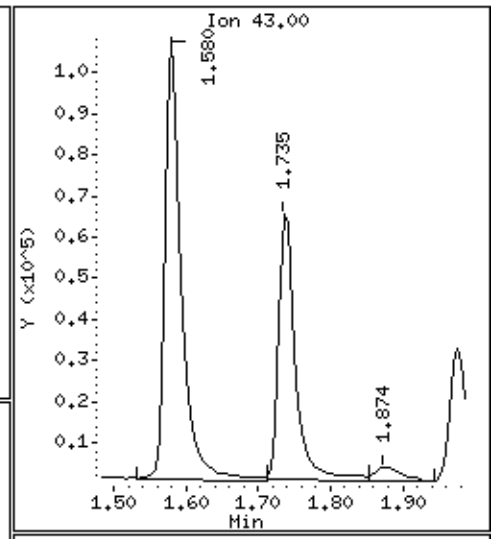
Concentration: 52.8 ppb

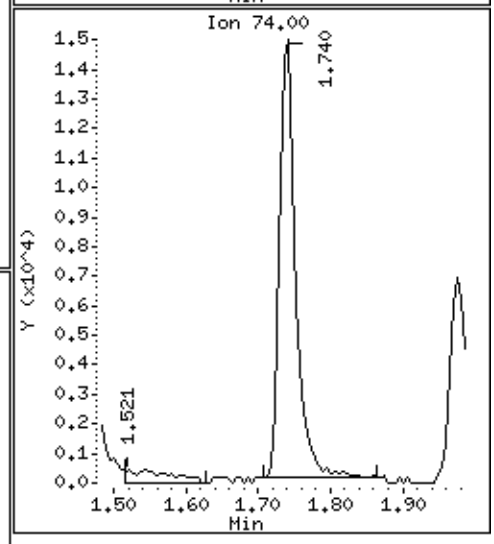












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 20

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

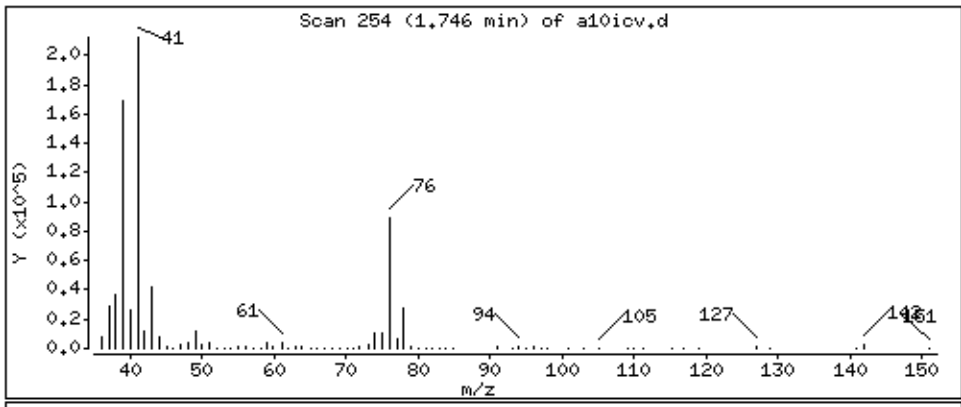
Operator: ala

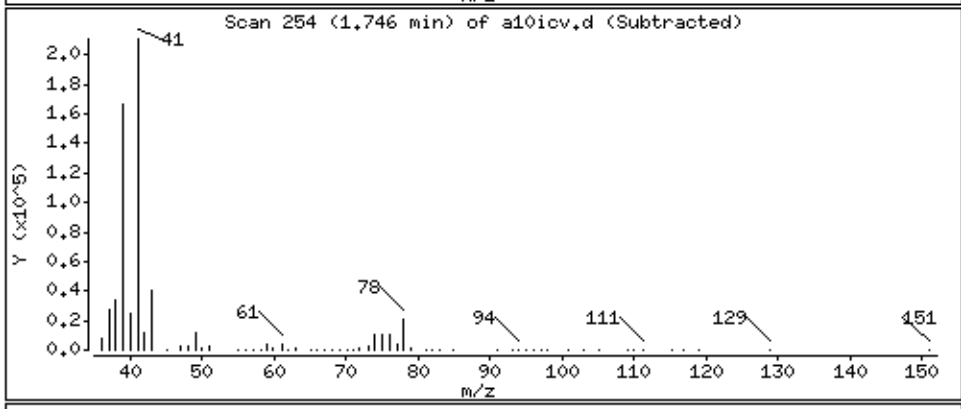
Column phase: DB-624

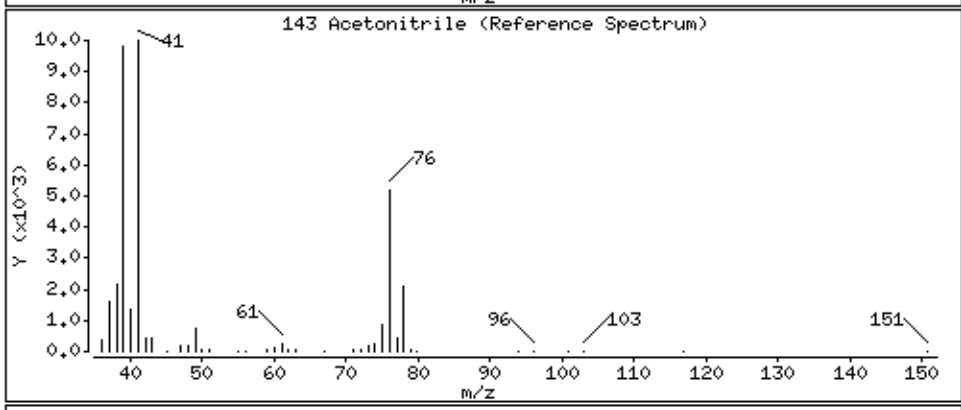
Column diameter: 0.18

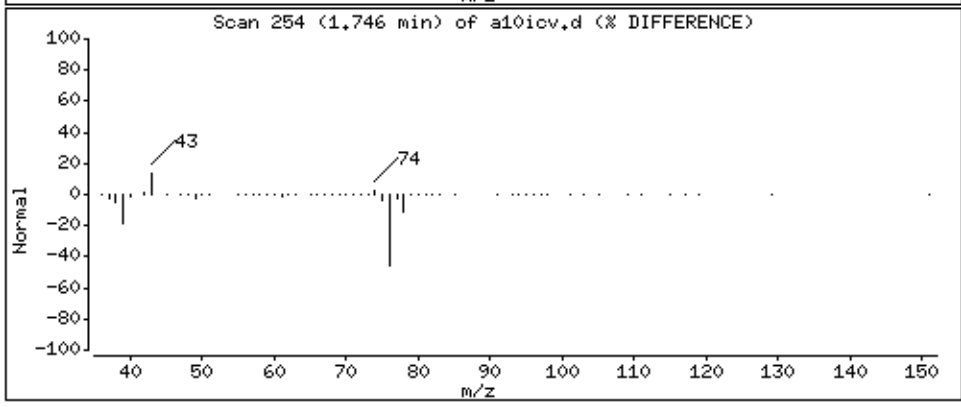
143 Acetonitrile

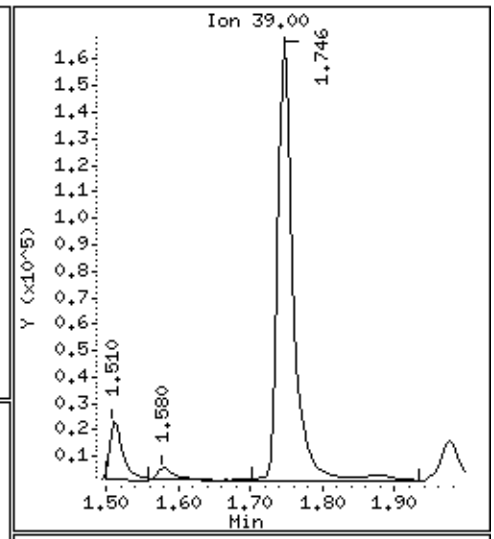
Concentration: 37.9 ppb

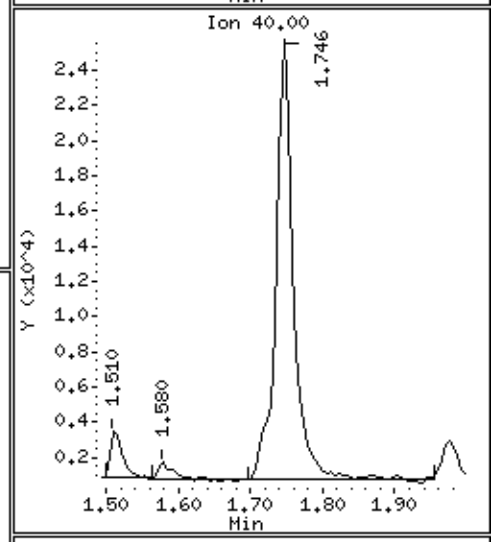


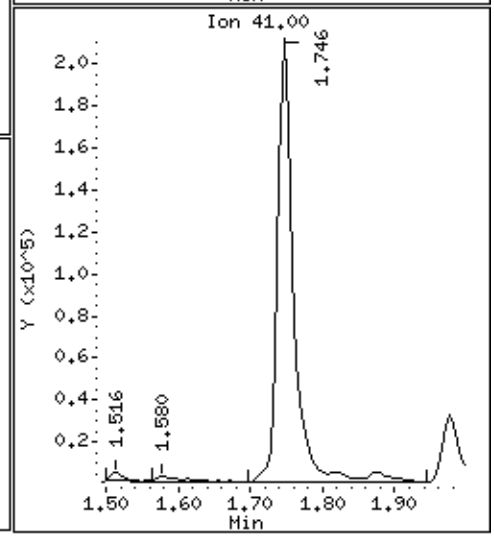












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

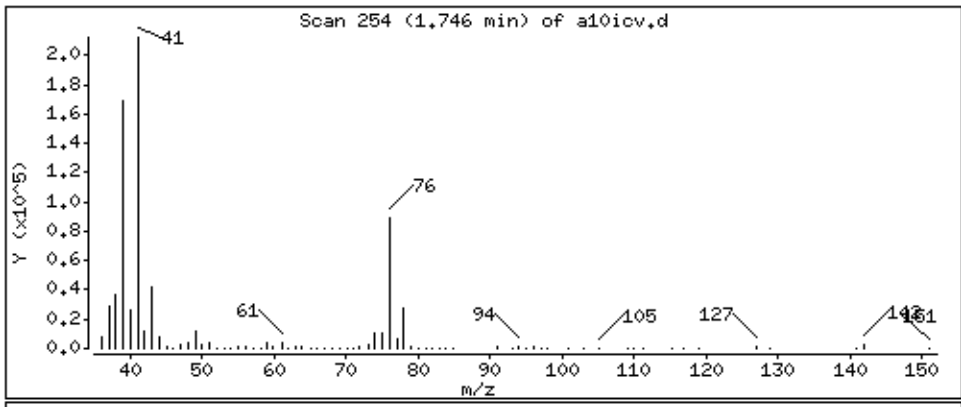
Operator: ala

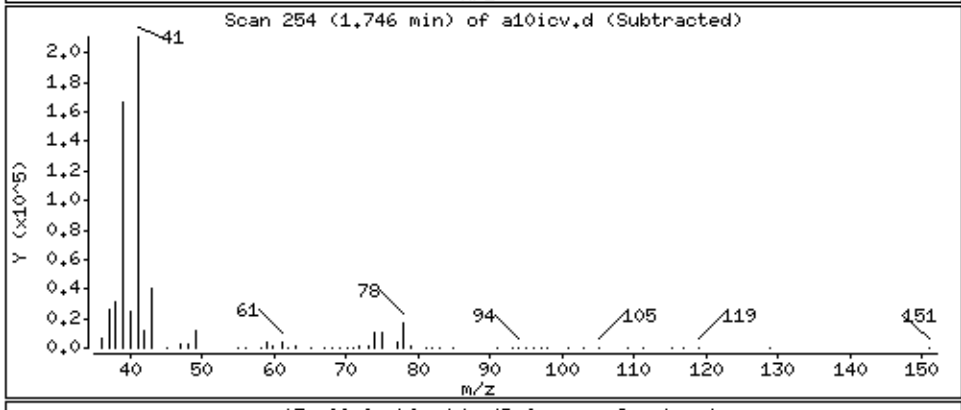
Column phase: DB-624

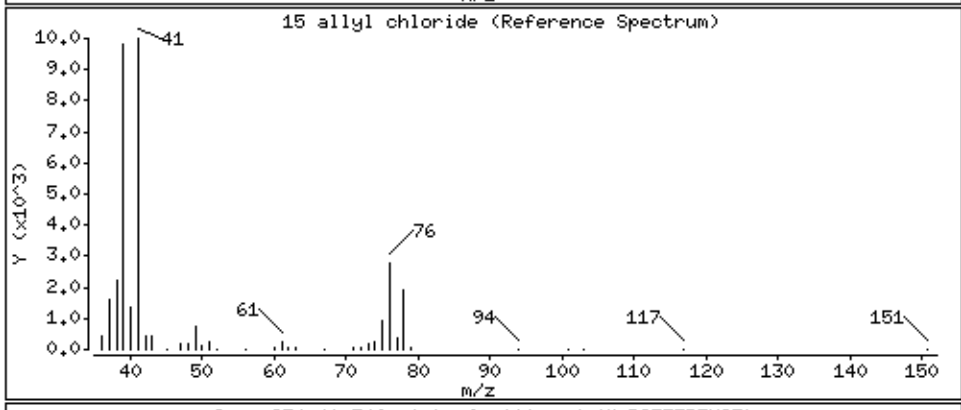
Column diameter: 0.18

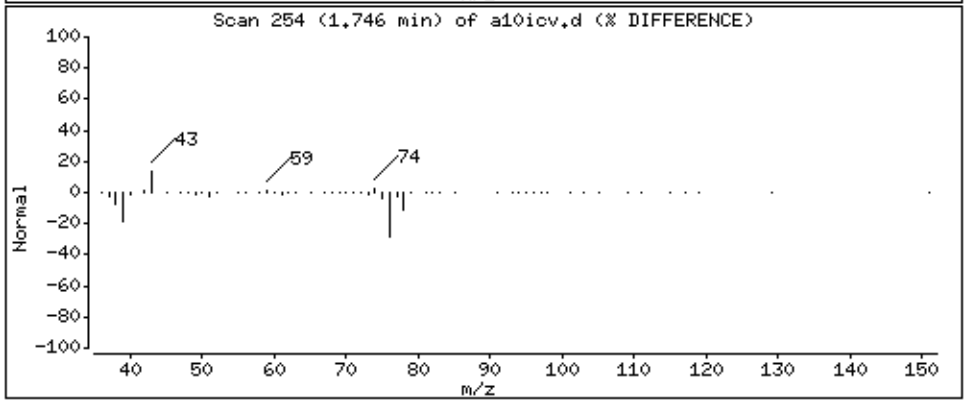
15 allyl chloride

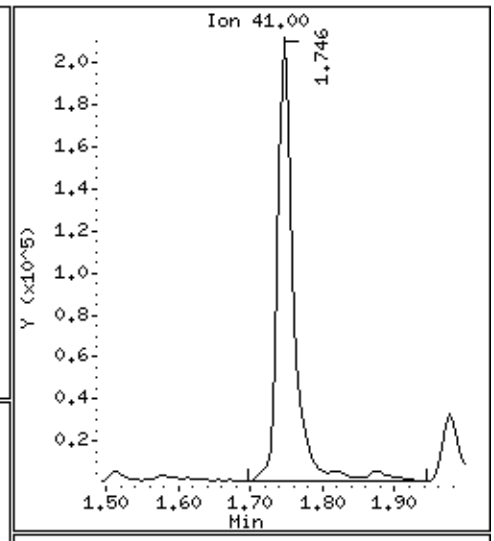
Concentration: 85.7 ppb

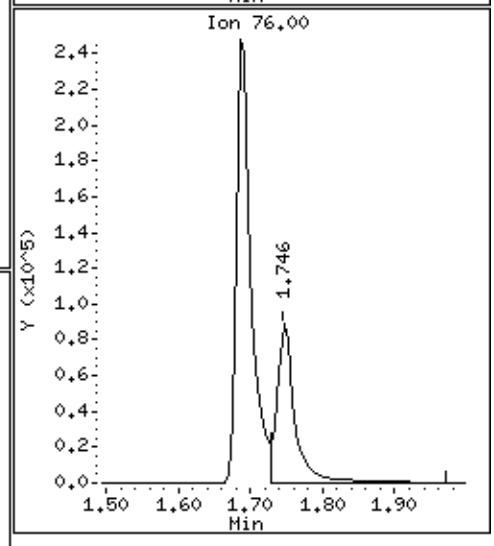












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

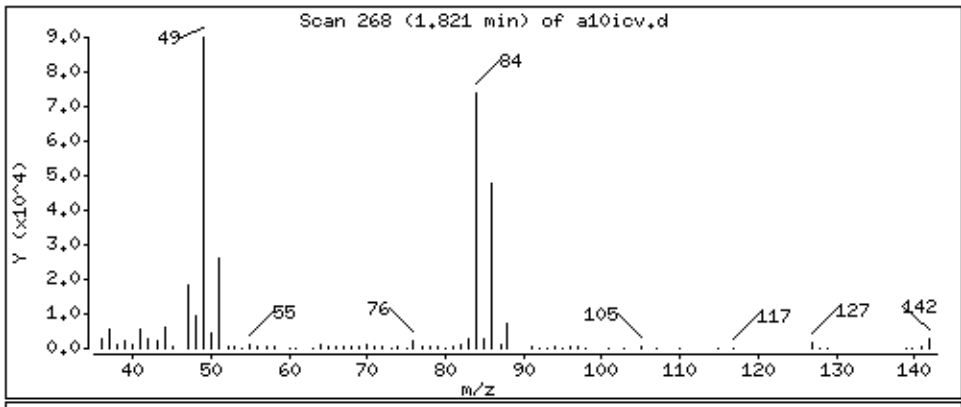
Operator: ala

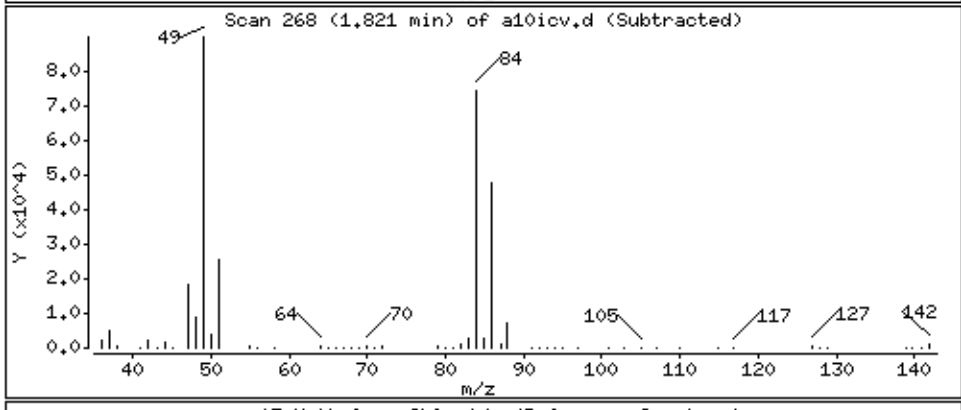
Column phase: DB-624

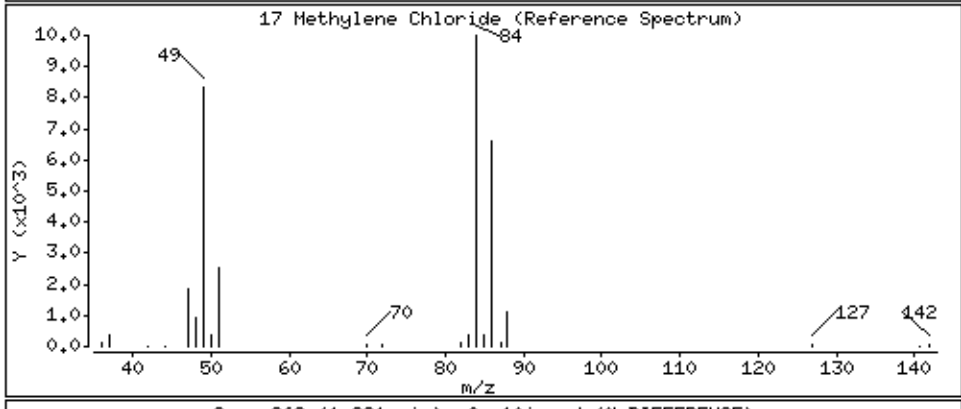
Column diameter: 0.18

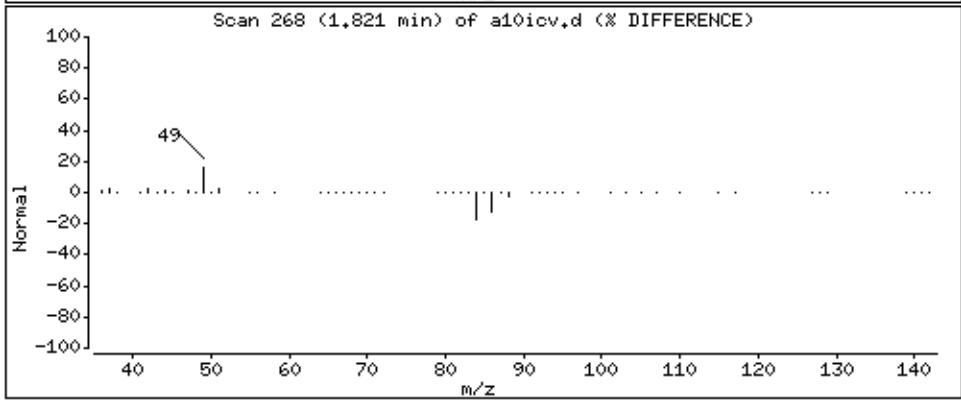
17 Methylene Chloride

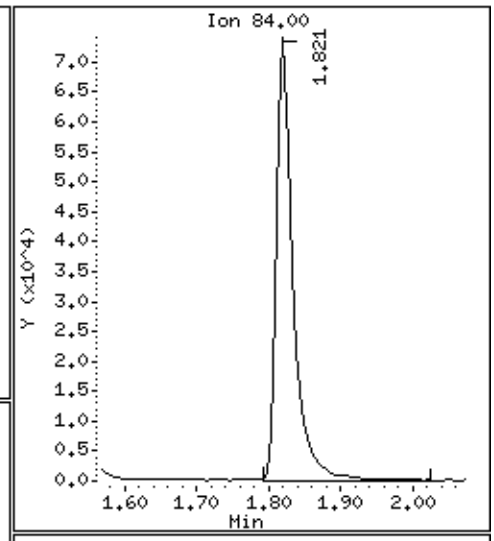
Concentration: 48.5 ppb

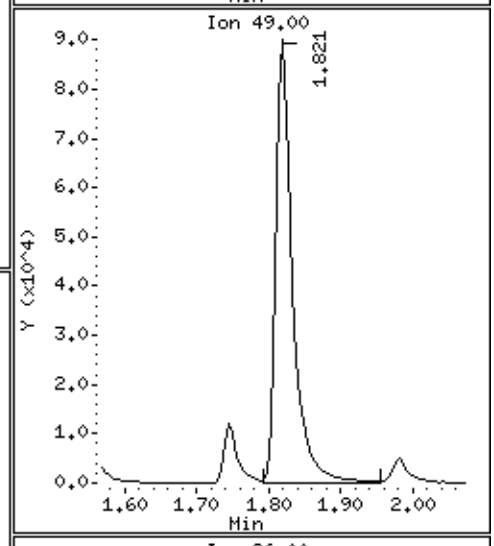


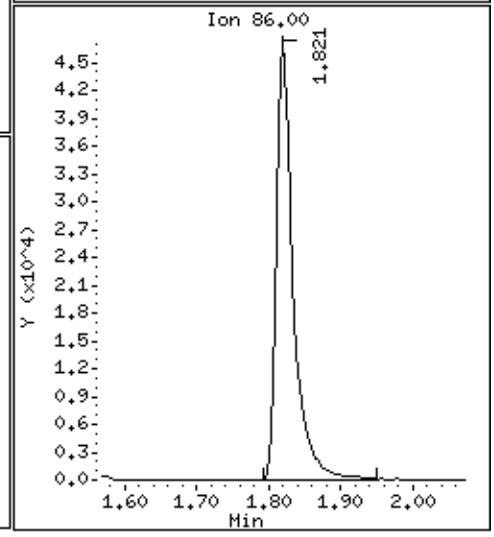












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

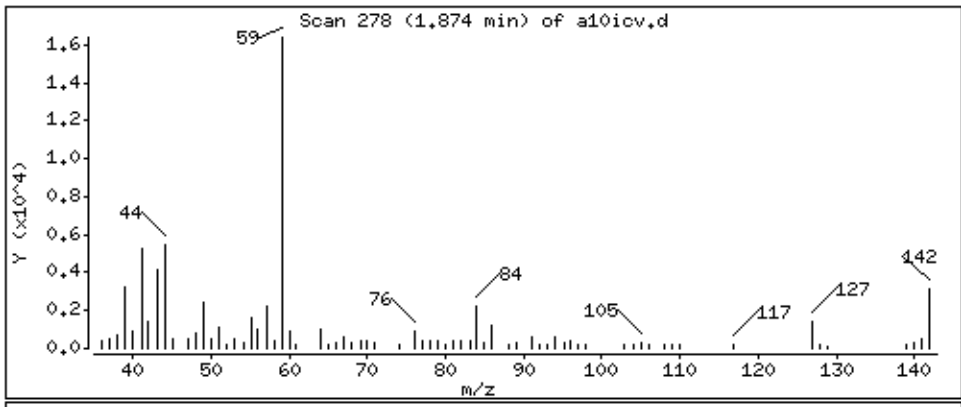
Operator: ala

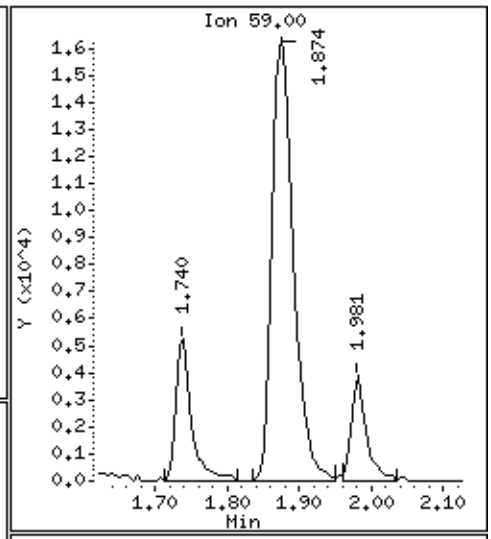
Column phase: DB-624

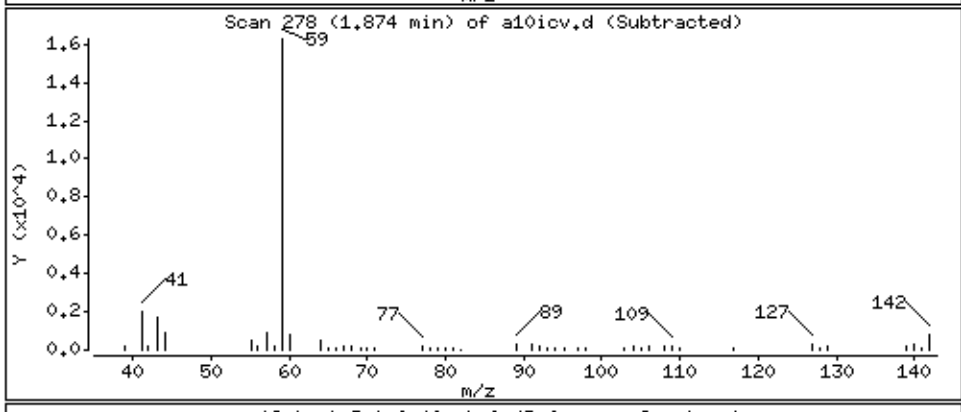
Column diameter: 0.18

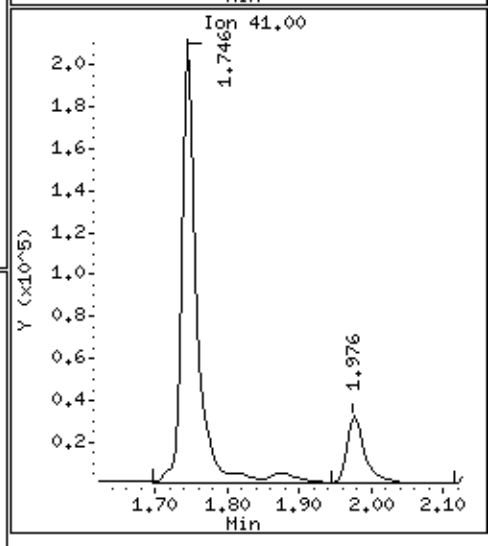
18 tert-Butyl Alcohol

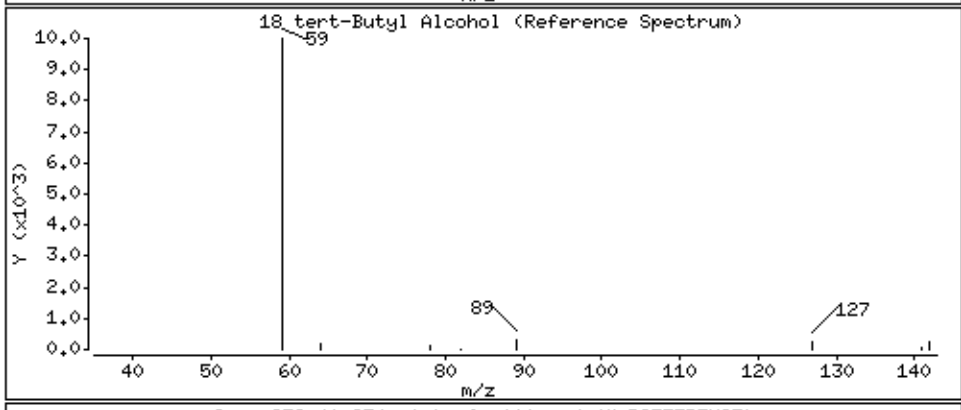
Concentration: 106 ppb

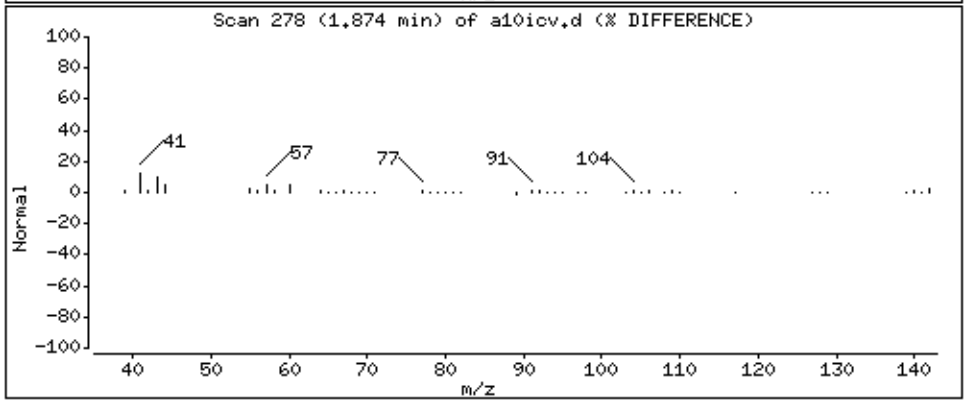












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

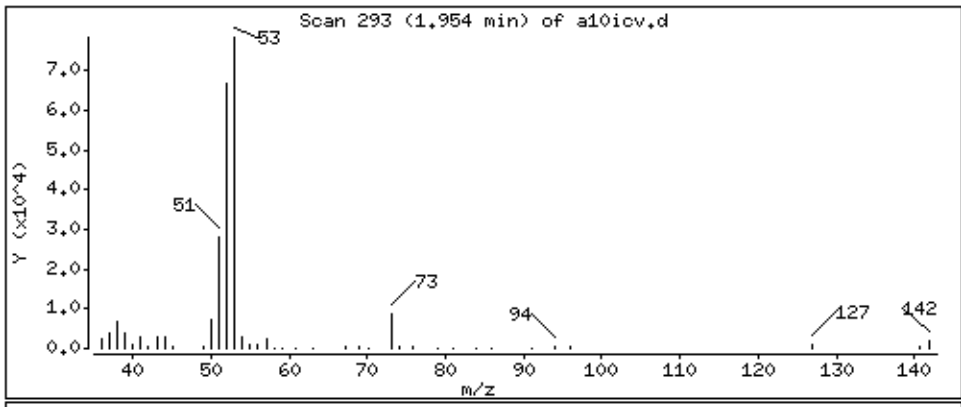
Operator: ala

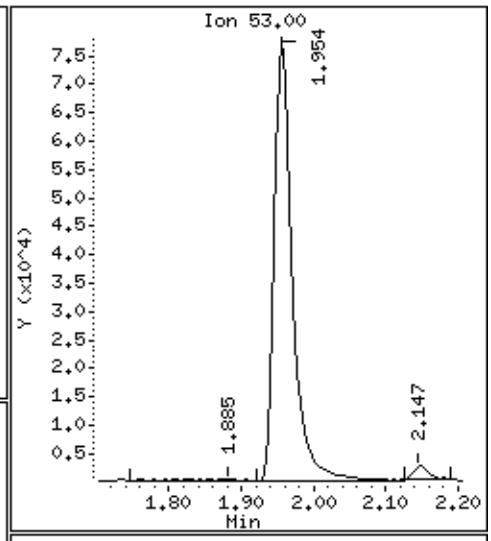
Column phase: DB-624

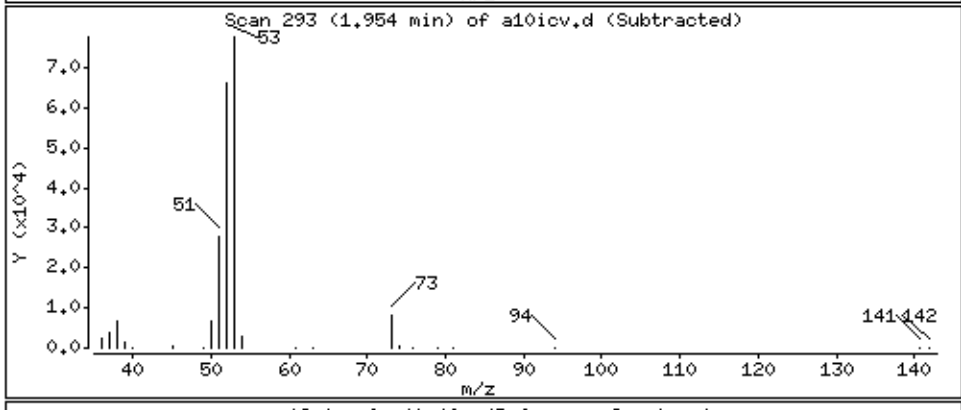
Column diameter: 0.18

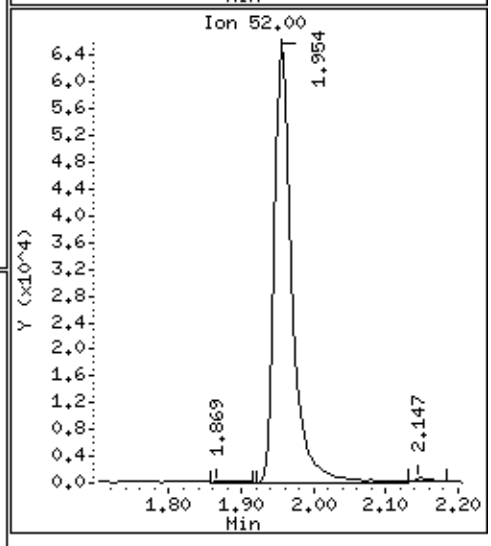
19 Acrylonitrile

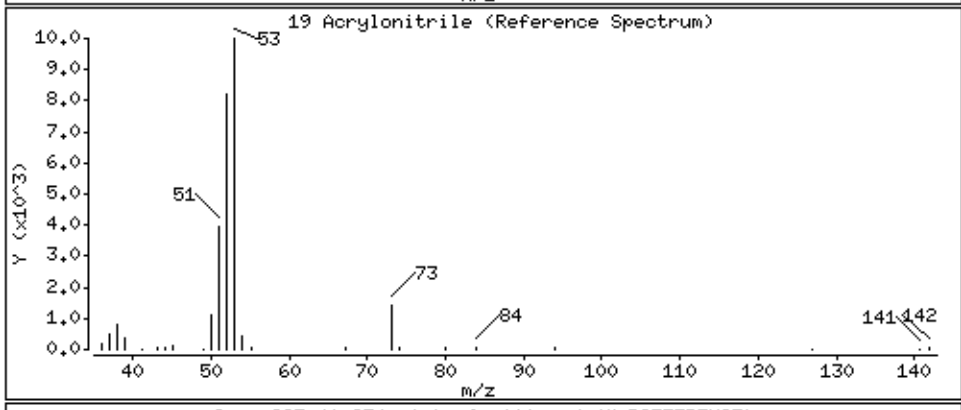
Concentration: 184 ppb

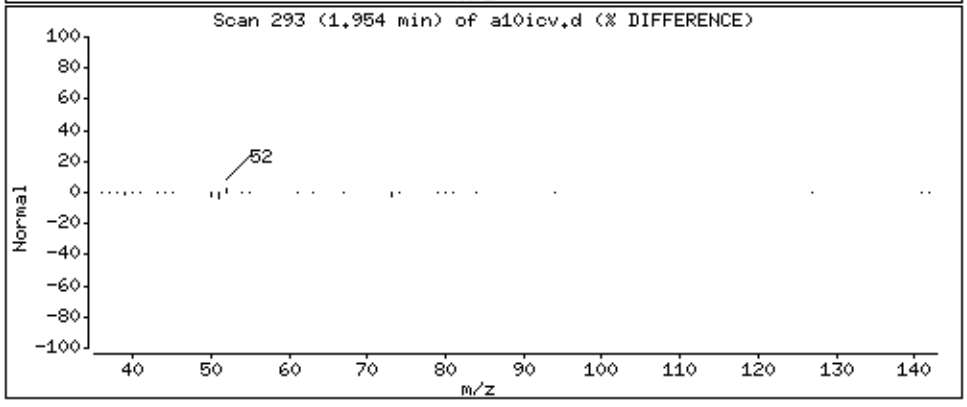












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

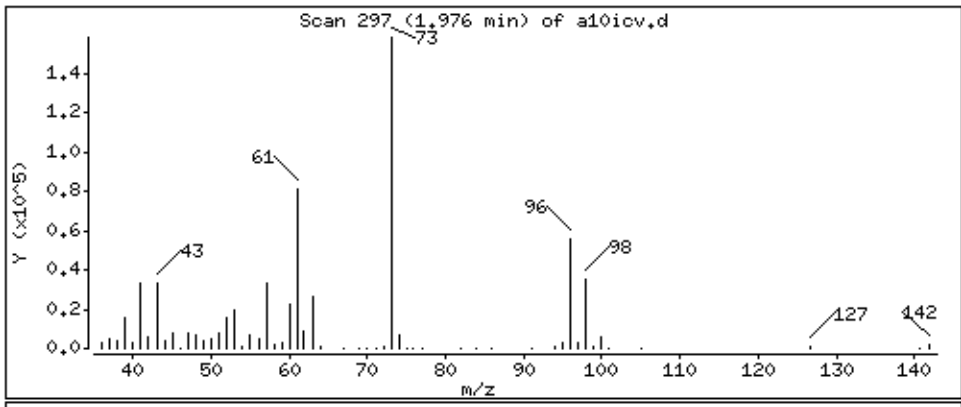
Operator: ala

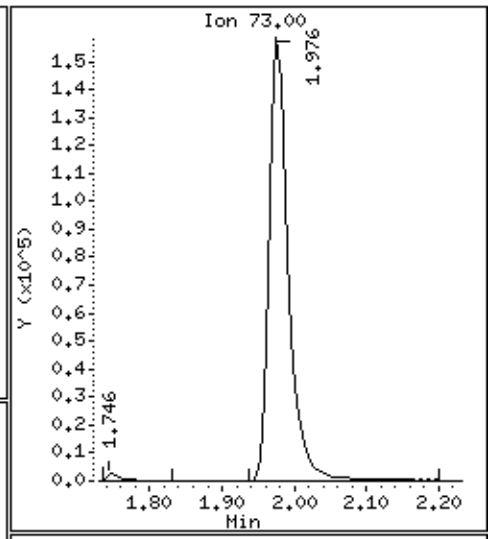
Column phase: DB-624

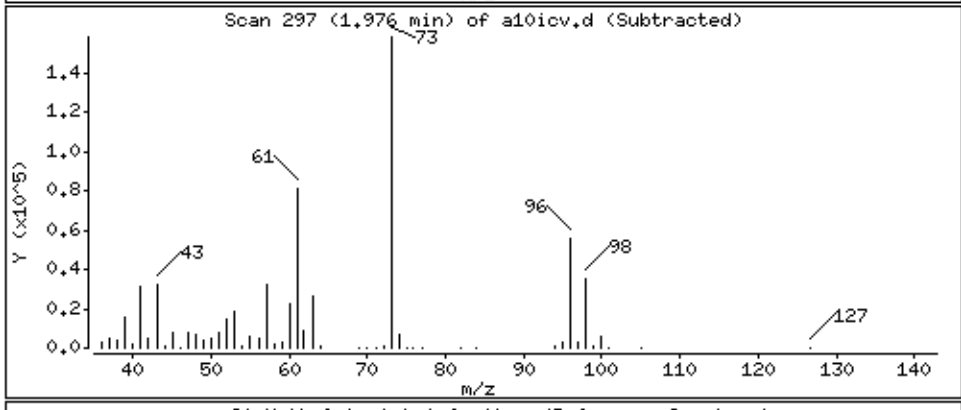
Column diameter: 0.18

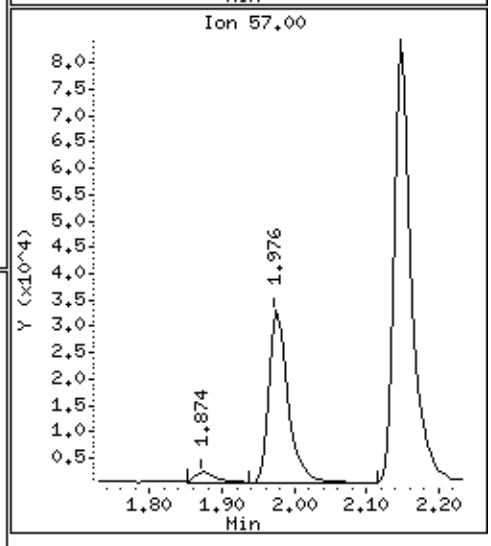
20 Methyl-tert-butyl ether

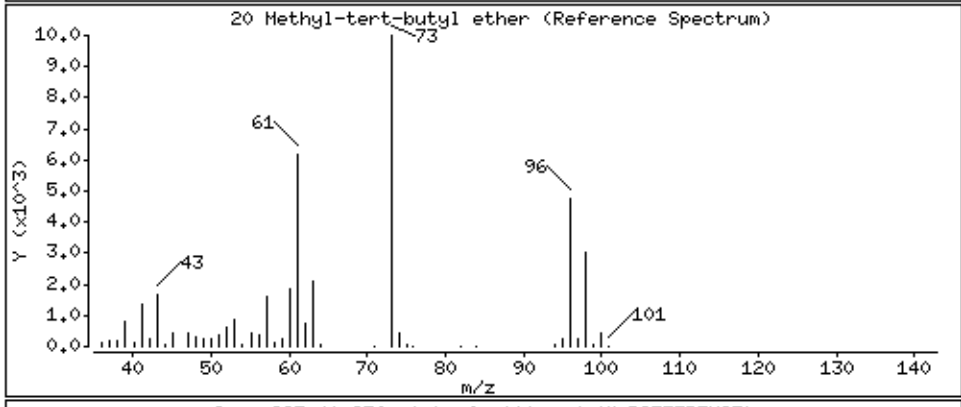
Concentration: 51.1 ppb

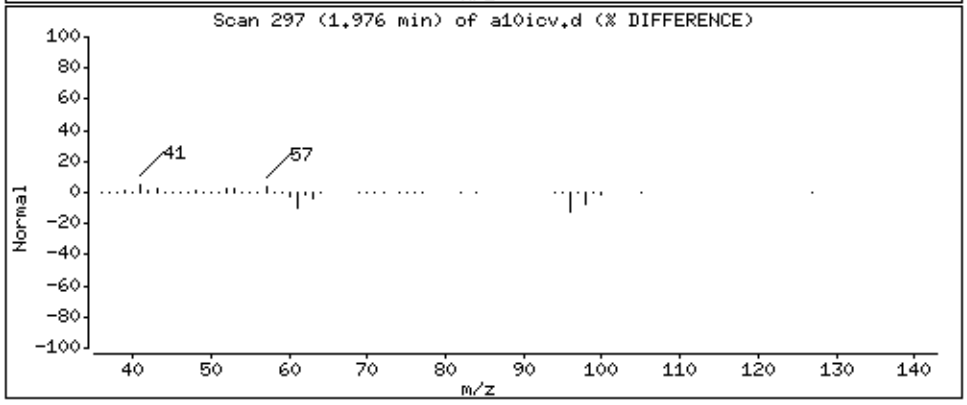












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 26

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

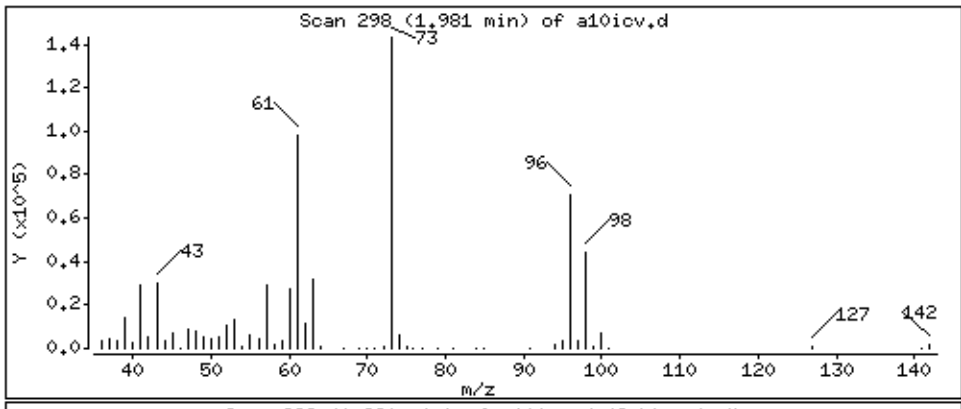
Operator: ala

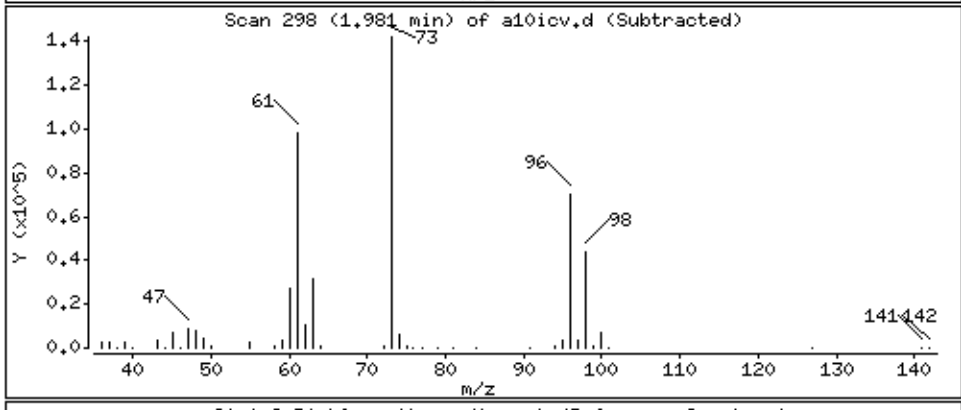
Column phase: DB-624

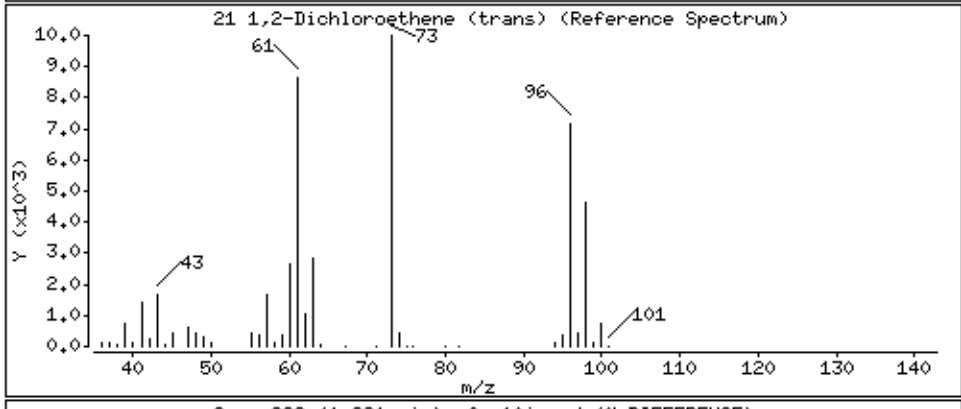
Column diameter: 0.18

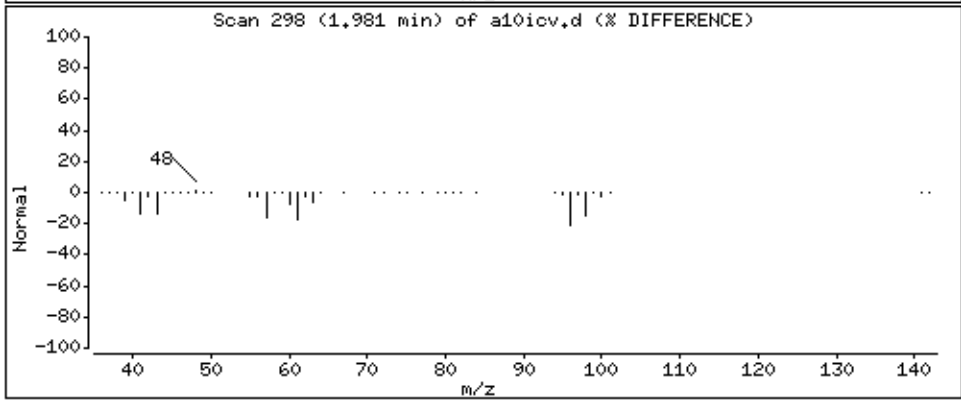
21 1,2-Dichloroethene (trans)

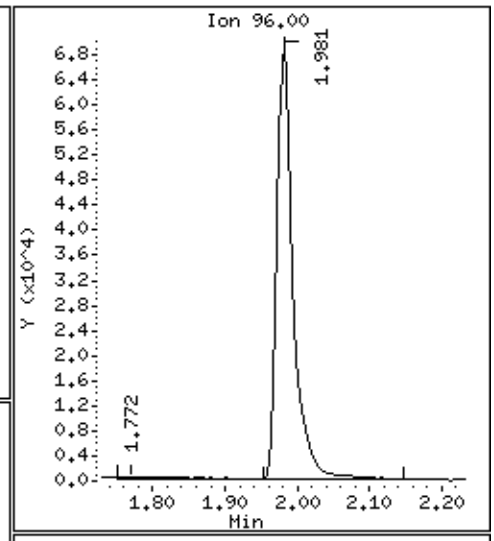
Concentration: 43.2 ppb

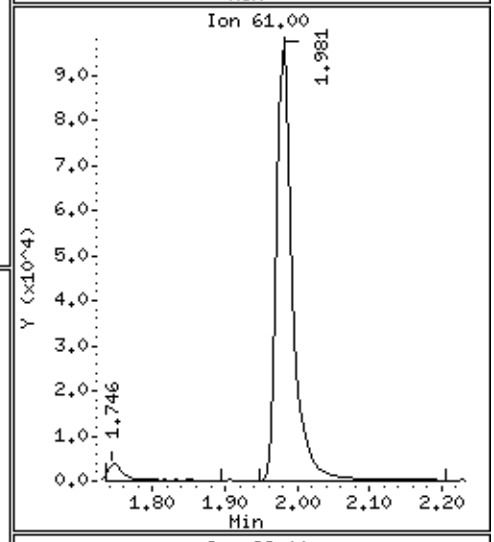


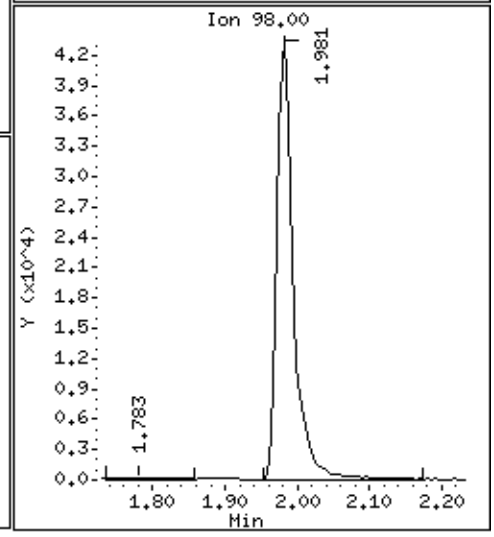












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

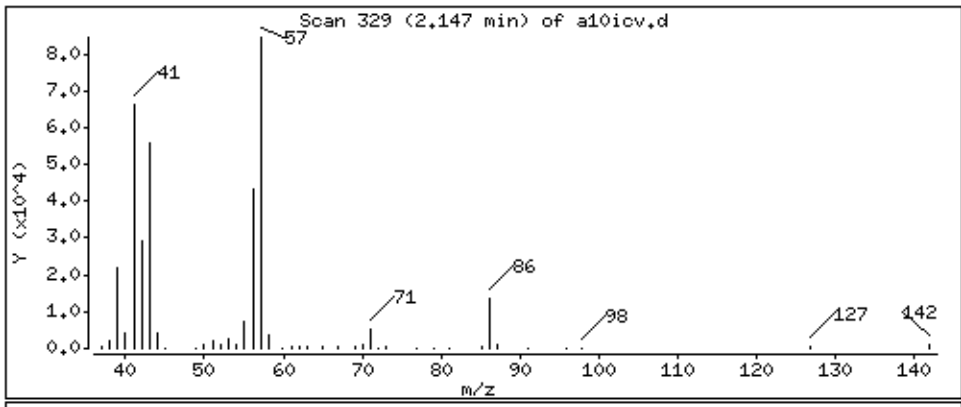
Operator: ala

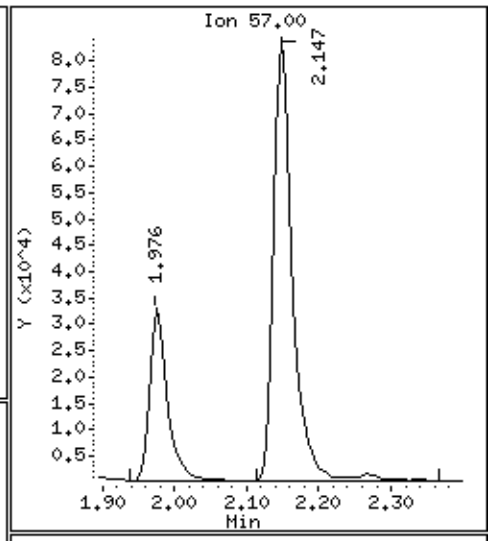
Column phase: DB-624

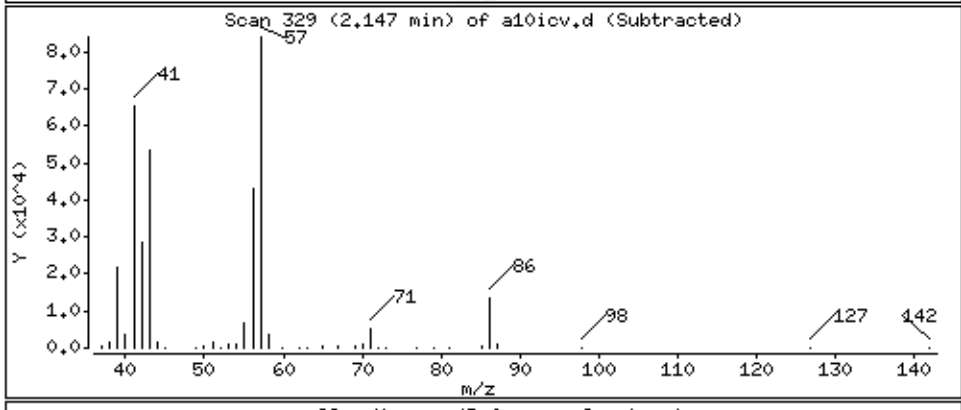
Column diameter: 0.18

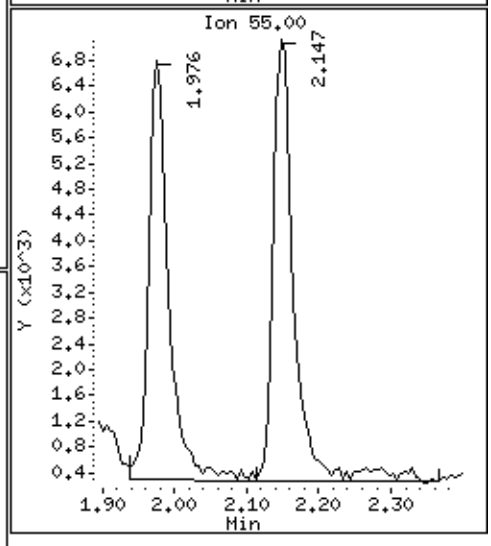
22 n-Hexane

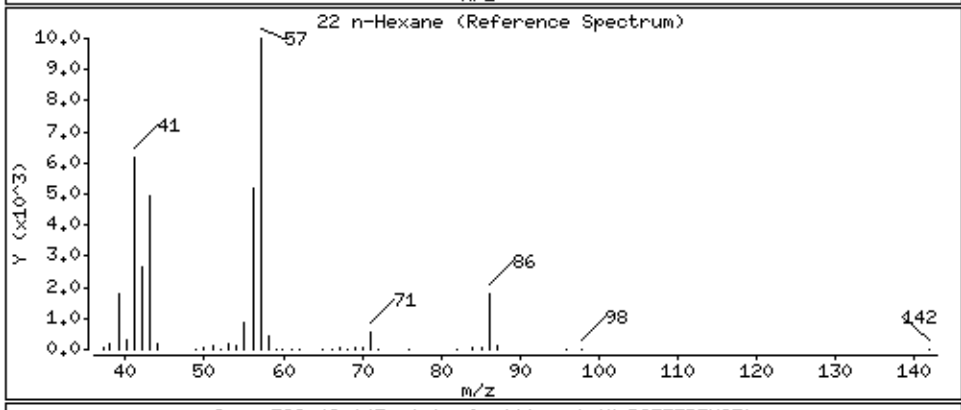
Concentration: 53.8 ppb

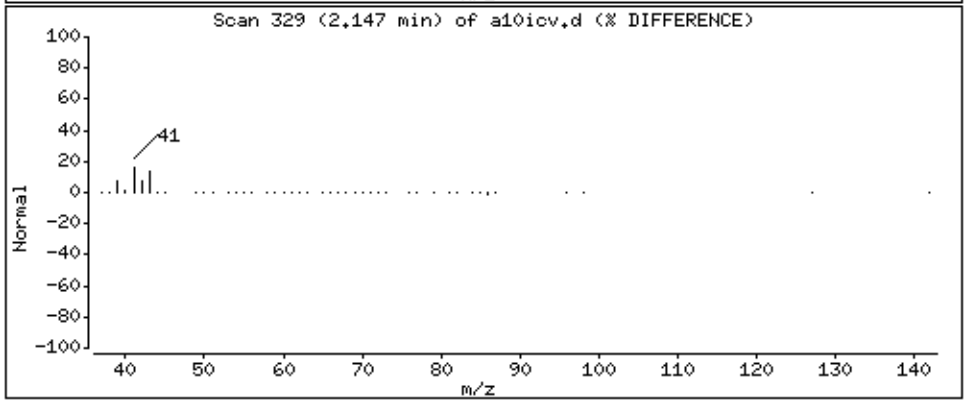












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

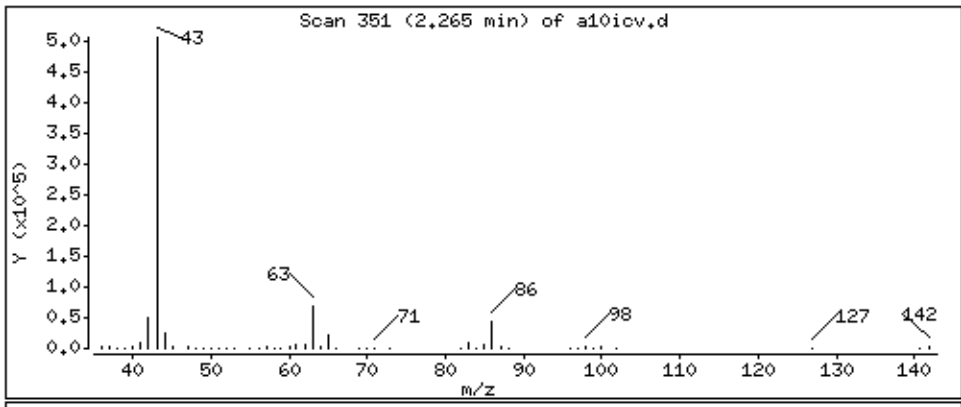
Operator: ala

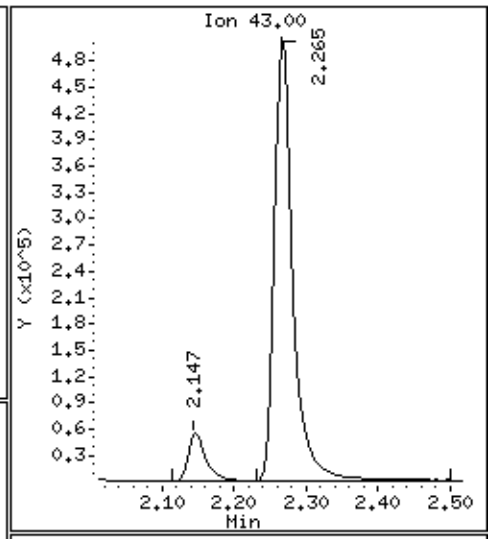
Column phase: DB-624

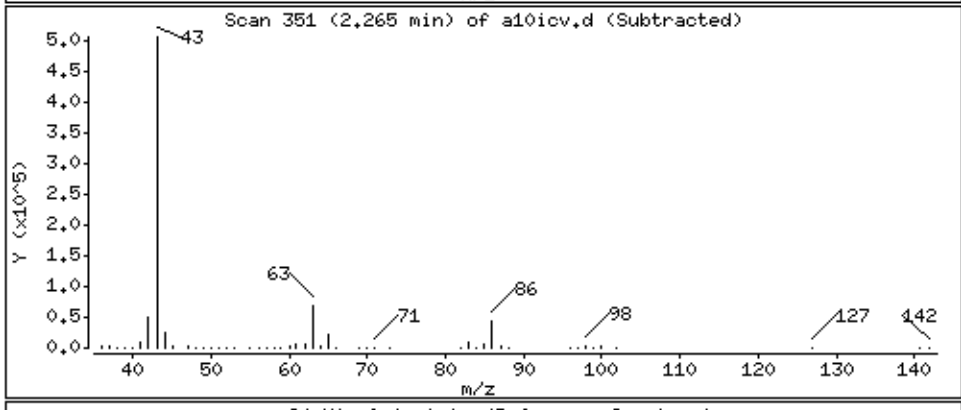
Column diameter: 0.18

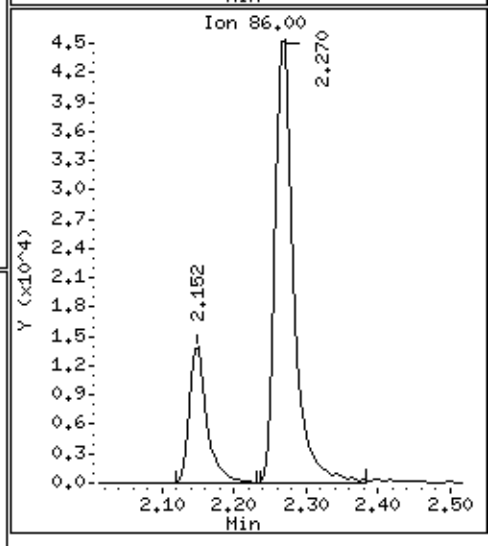
24 Vinyl Acetate

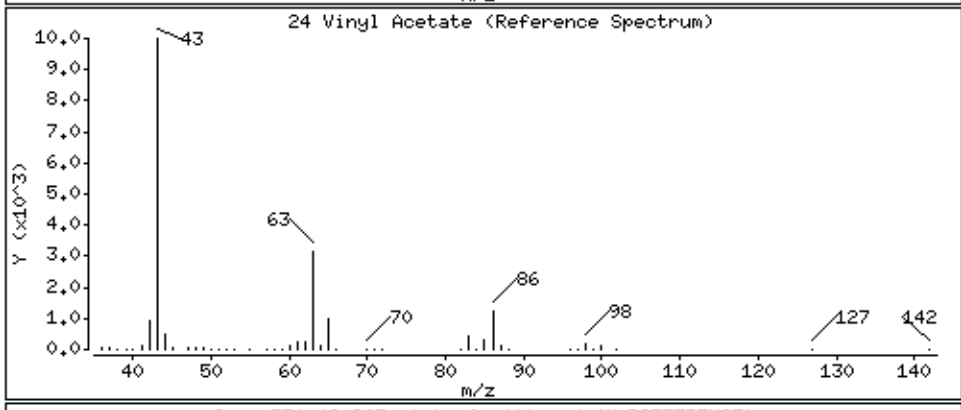
Concentration: 234 ppb

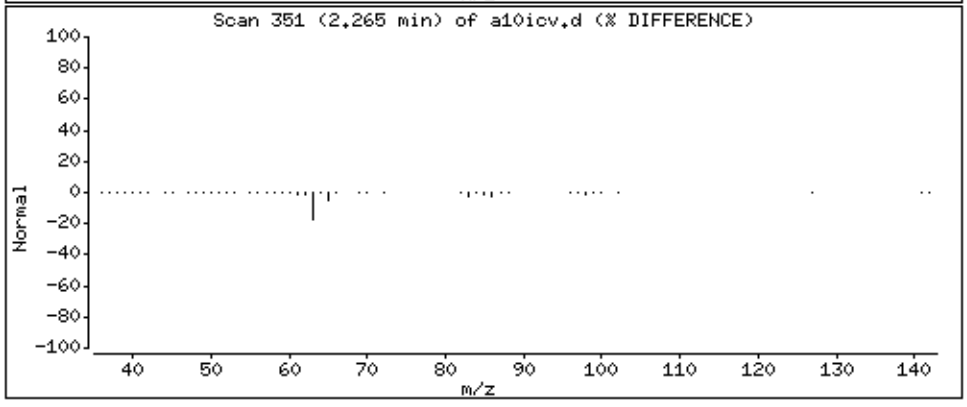












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

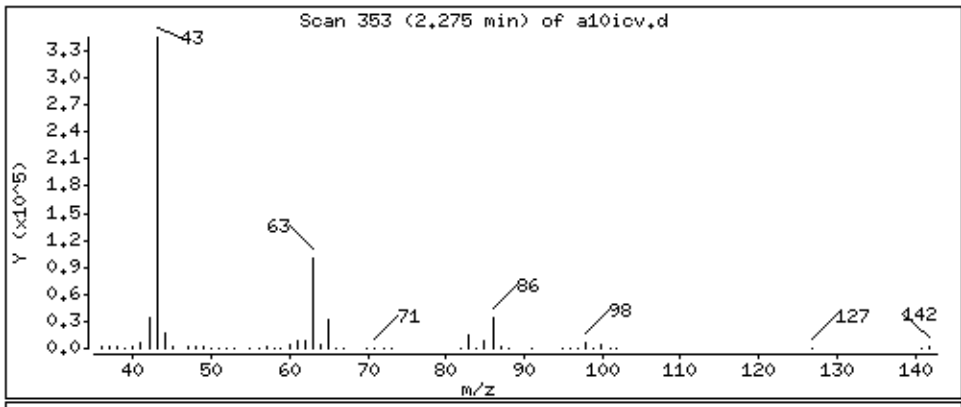
Operator: ala

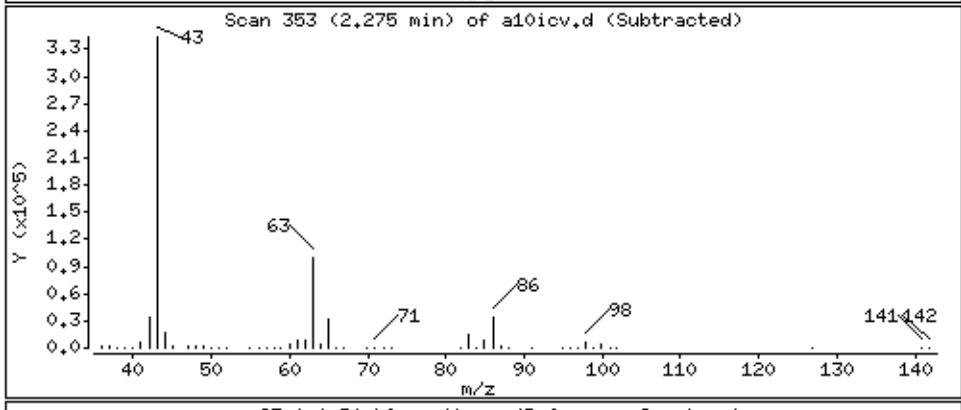
Column phase: DB-624

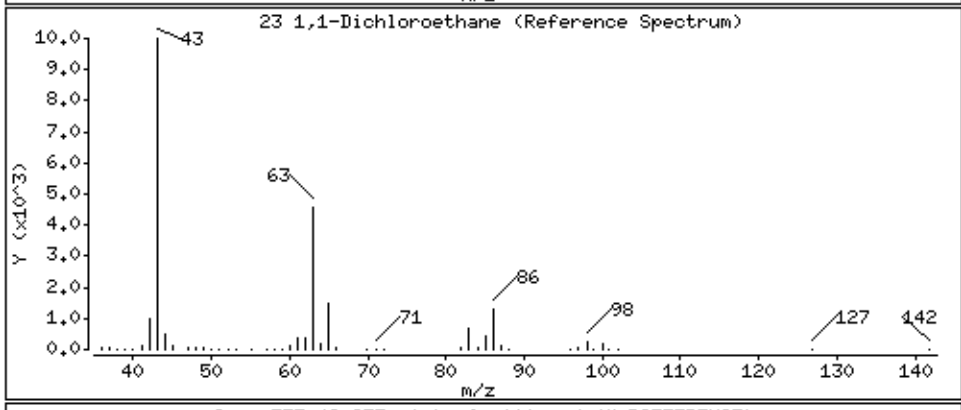
Column diameter: 0.18

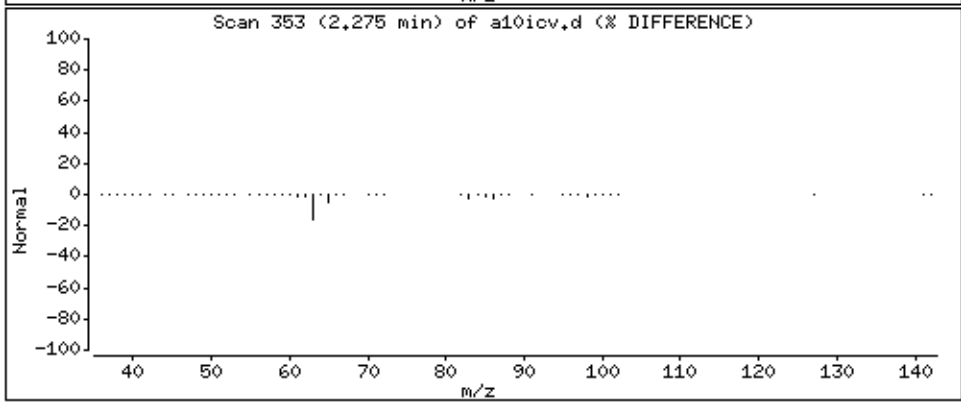
23 1,1-Dichloroethane

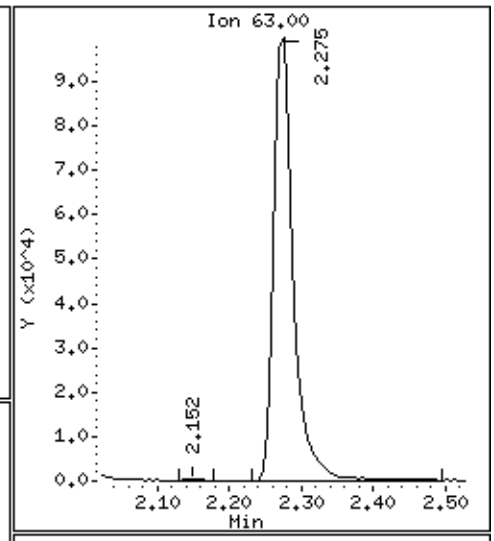
Concentration: 43.2 ppb

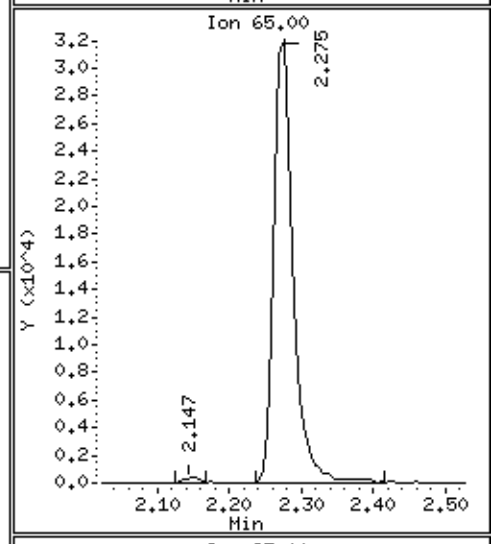


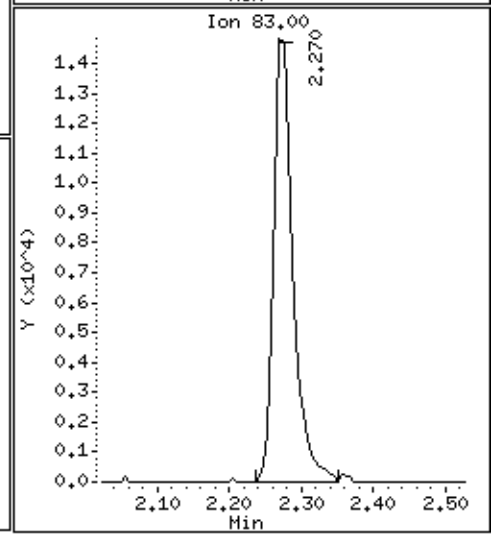












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

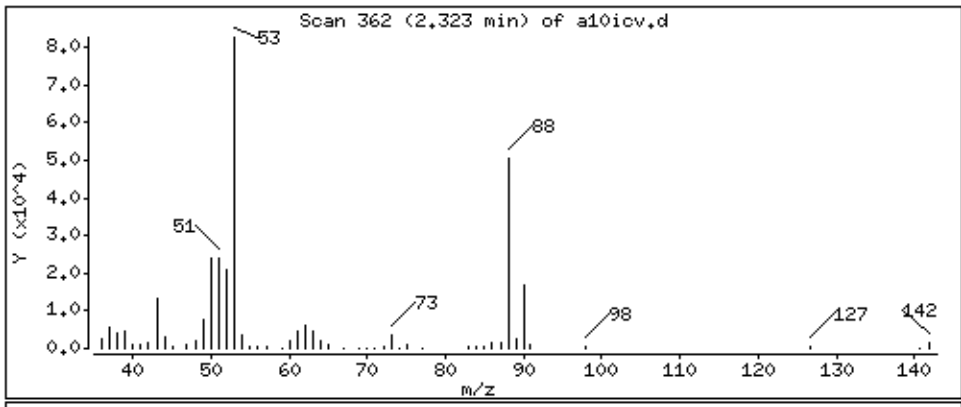
Operator: ala

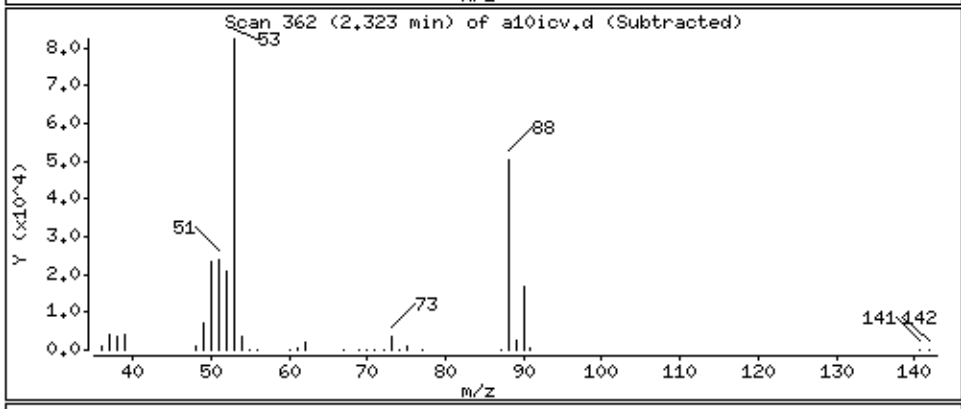
Column phase: DB-624

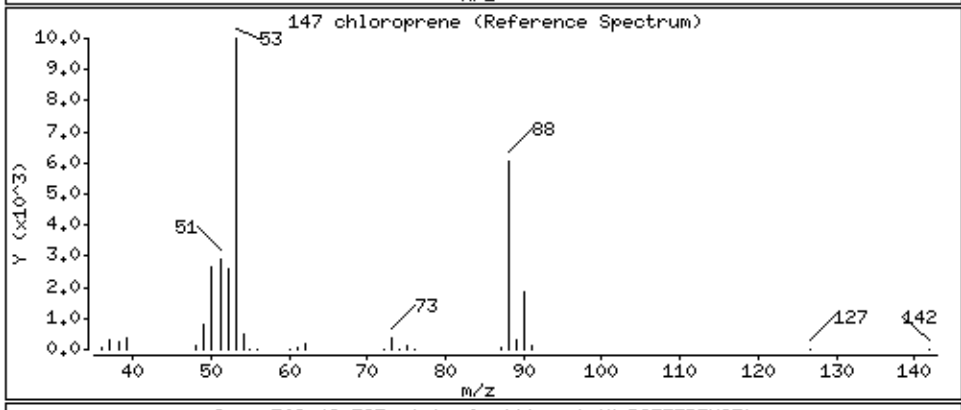
Column diameter: 0.18

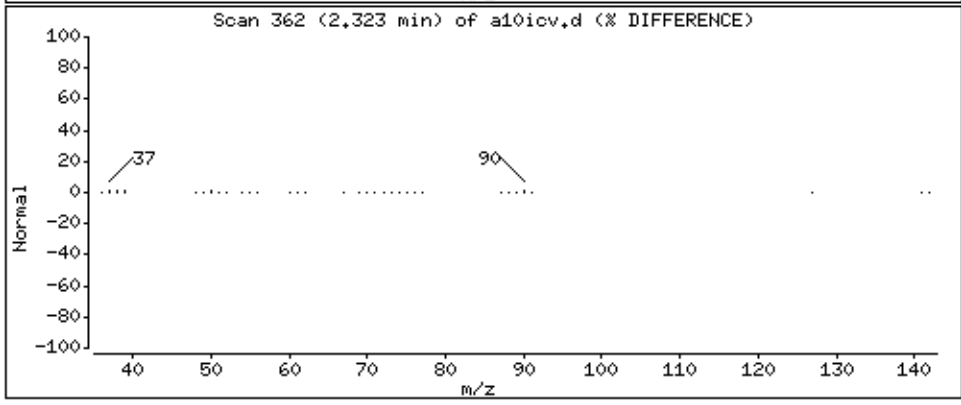
147 chloroprene

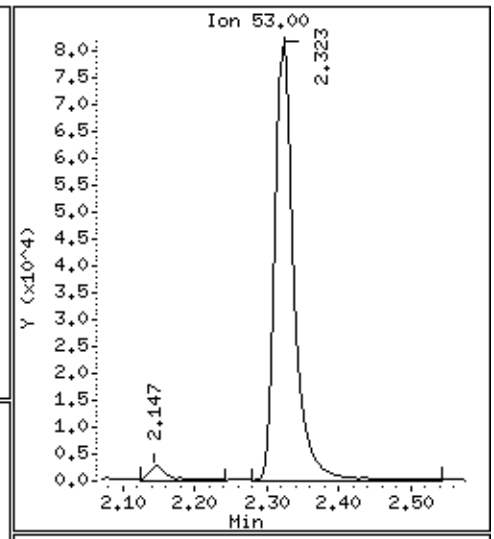
Concentration: 47.4 ppb

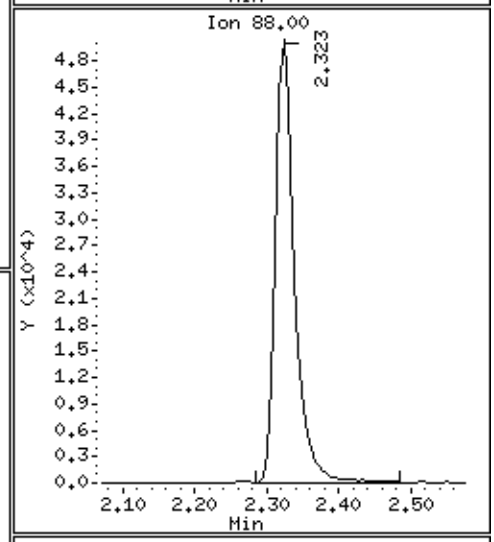


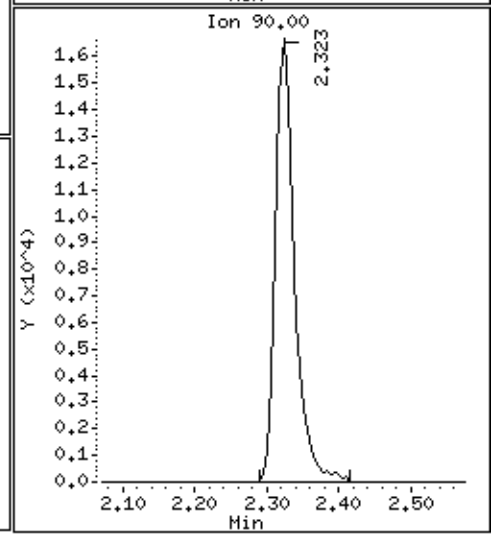












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 31

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

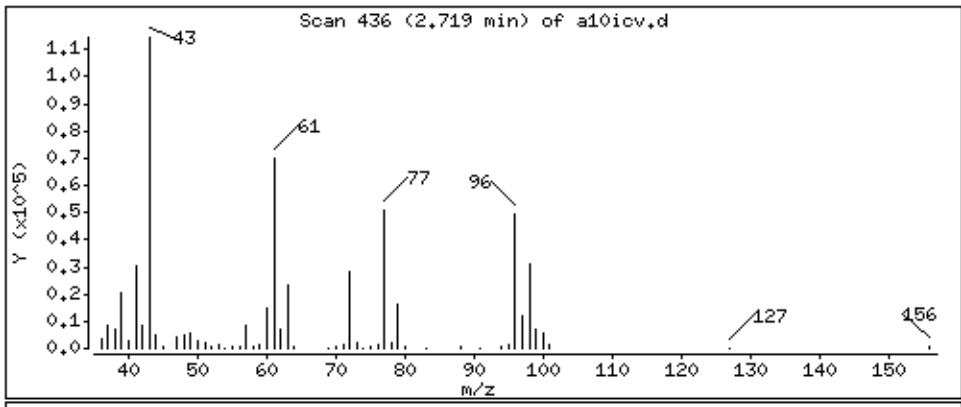
Operator: ala

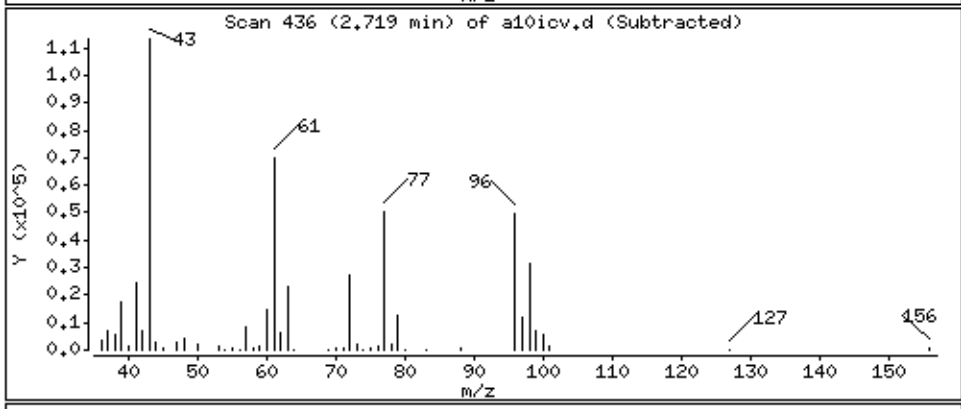
Column phase: DB-624

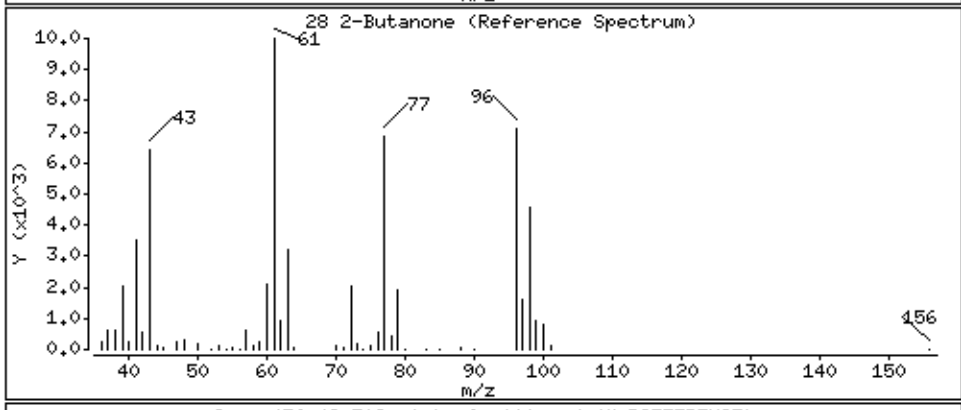
Column diameter: 0.18

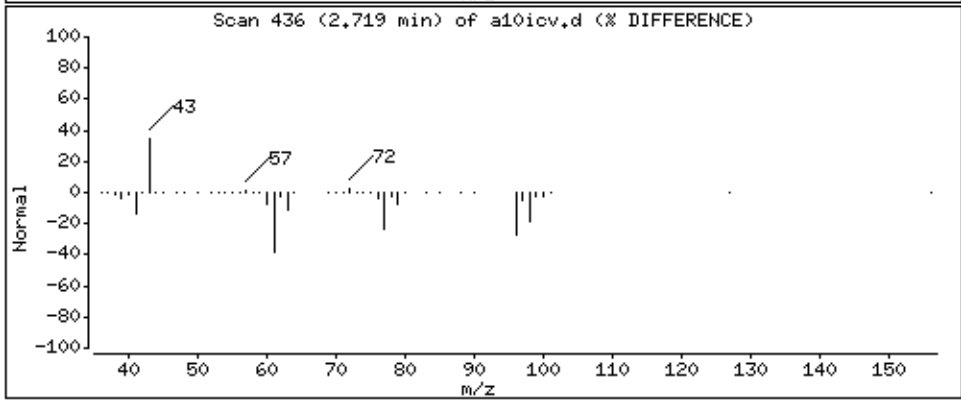
28 2-Butanone

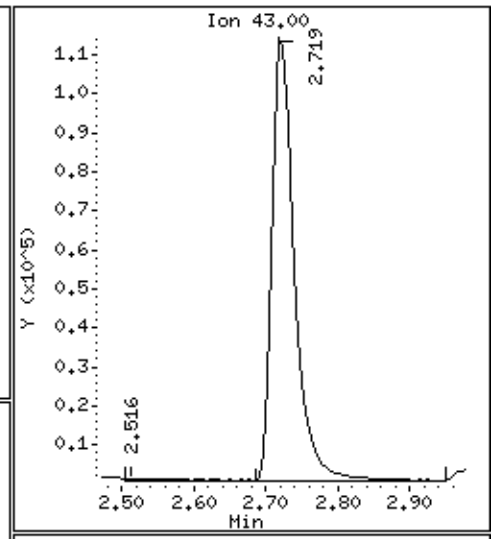
Concentration: 211 ppb

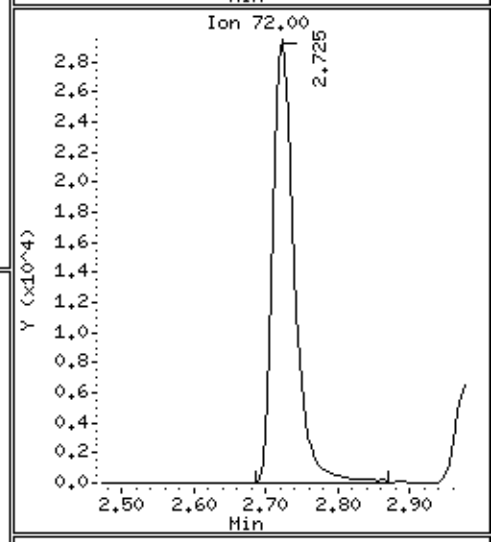


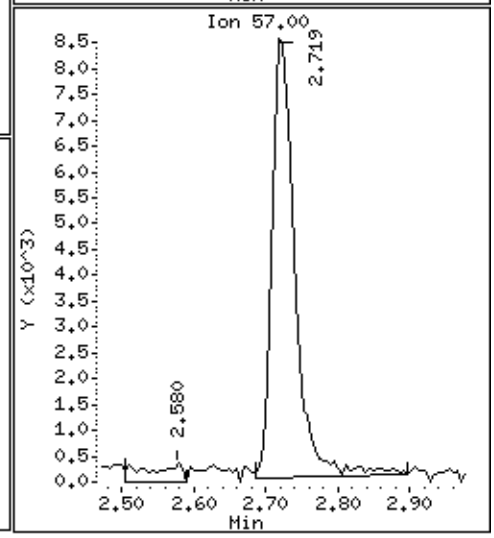












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

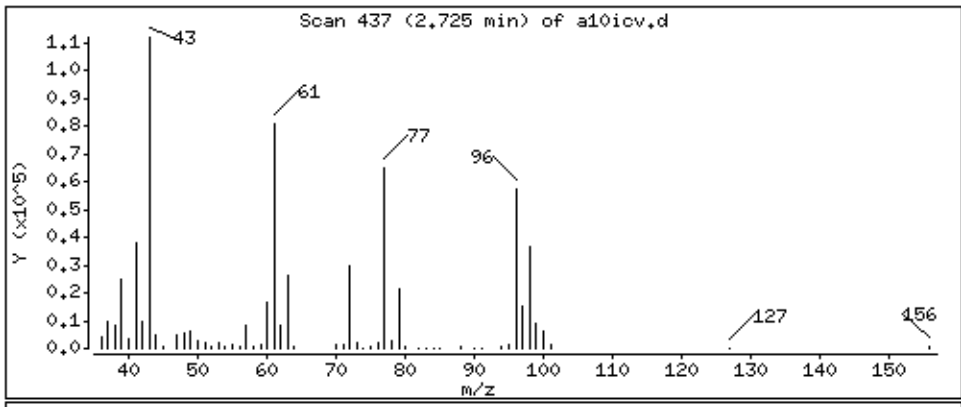
Operator: ala

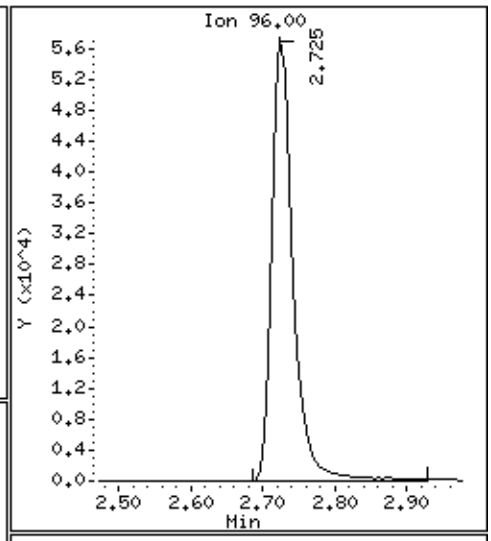
Column phase: DB-624

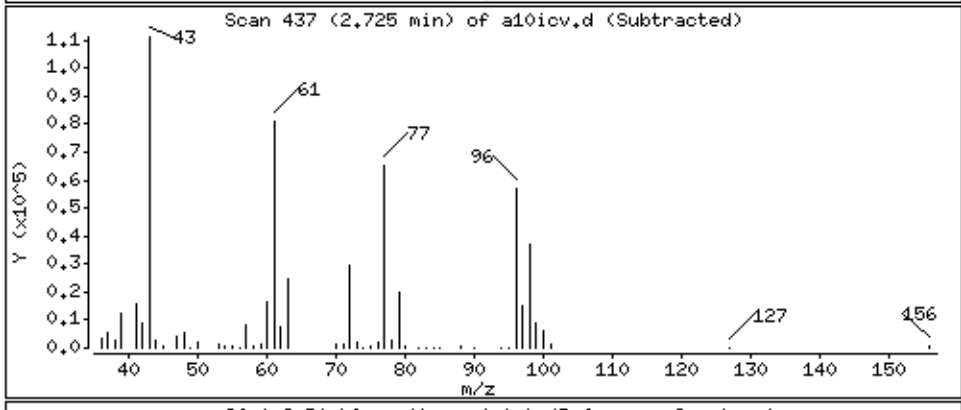
Column diameter: 0.18

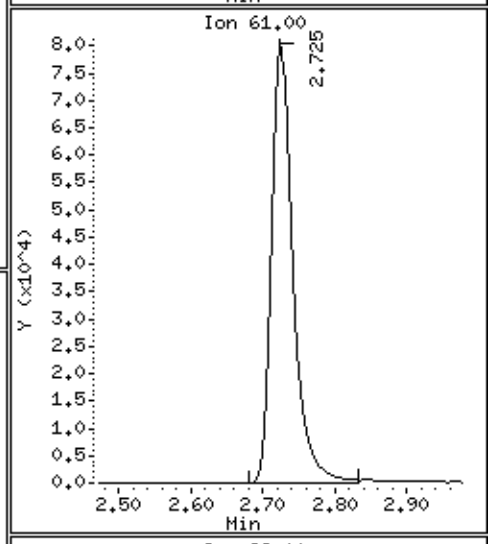
26 1,2-Dichloroethene (cis)

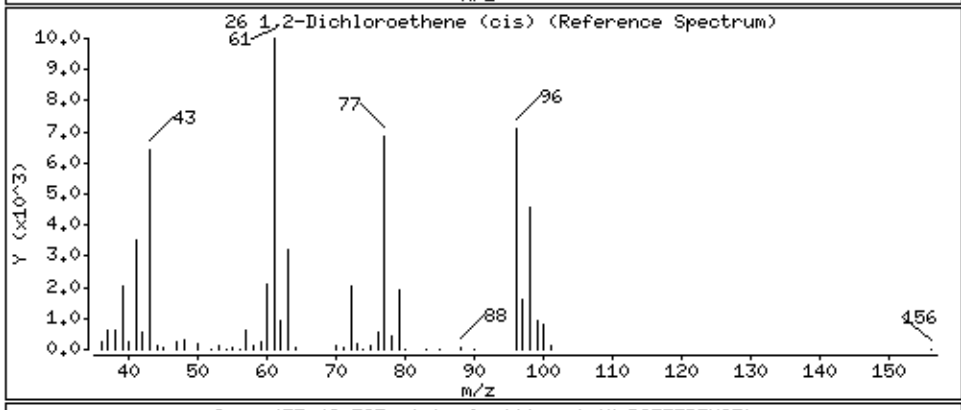
Concentration: 43.7 ppb

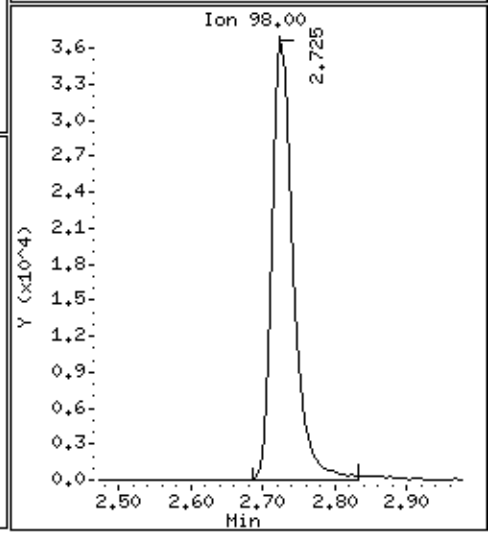


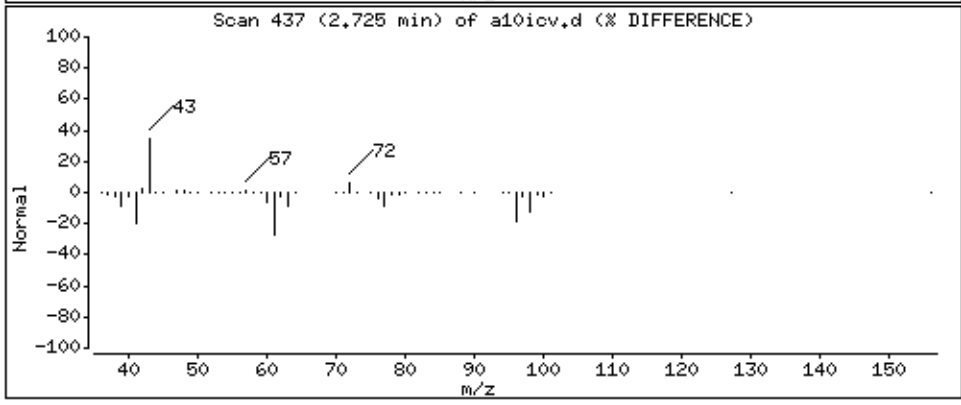












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

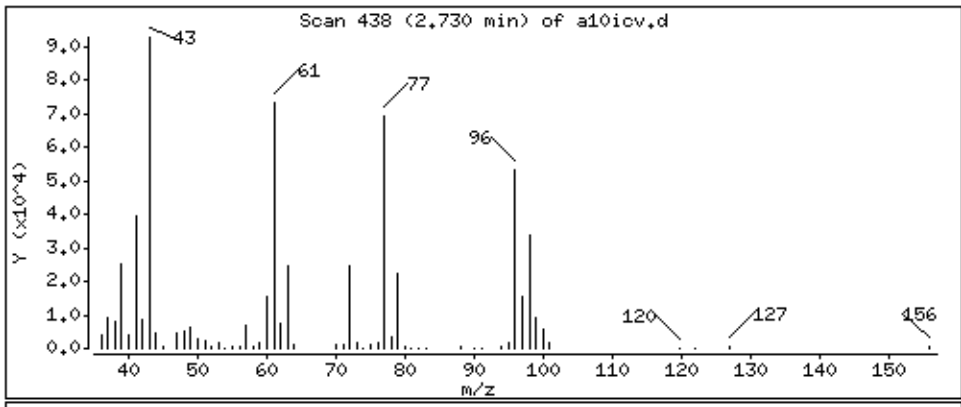
Operator: ala

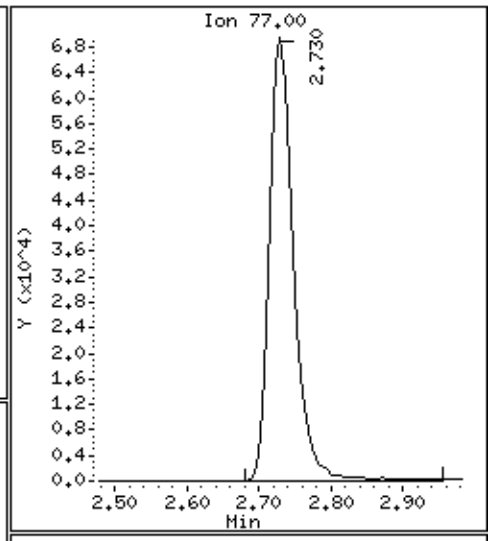
Column phase: DB-624

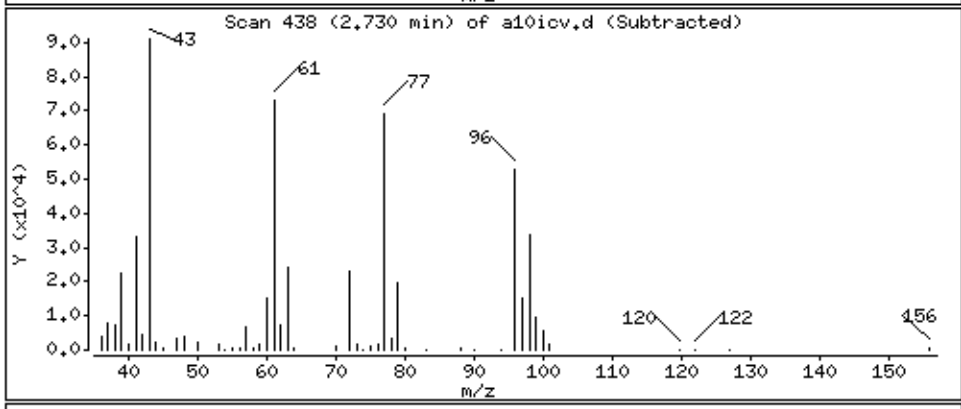
Column diameter: 0.18

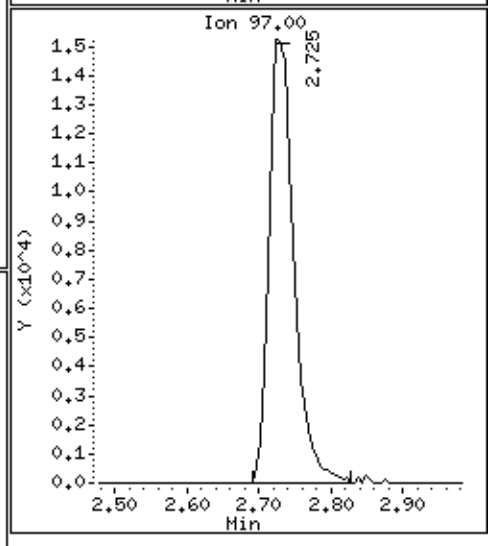
27 2,2-Dichloropropane

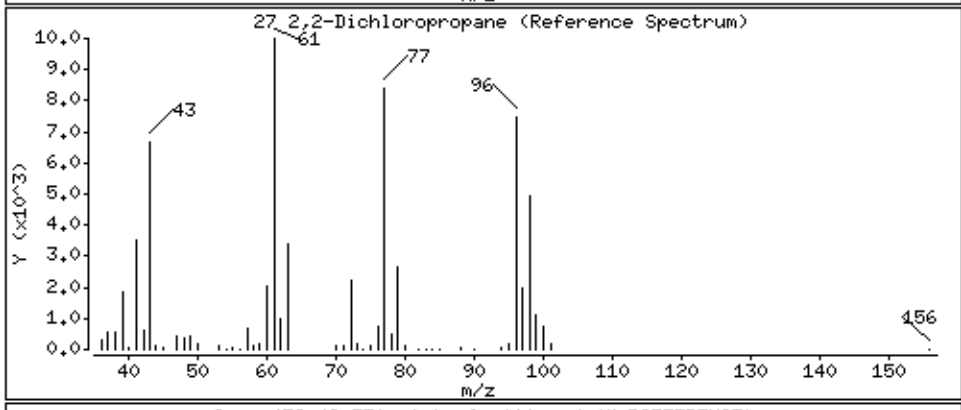
Concentration: 42.3 ppb

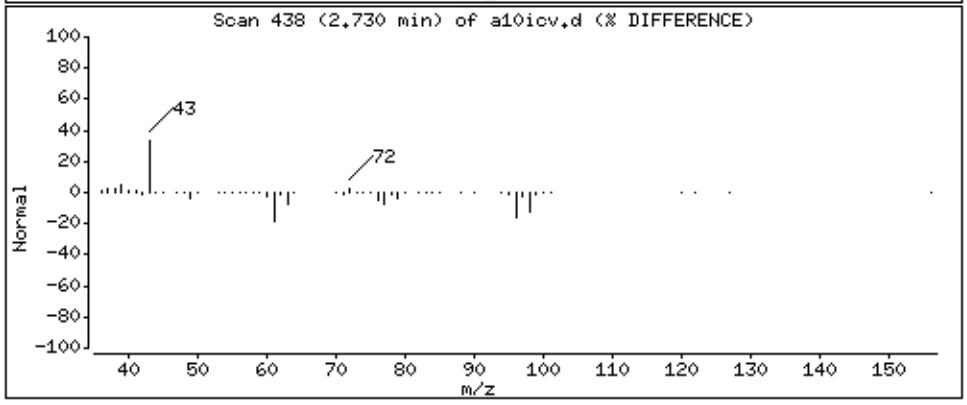












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

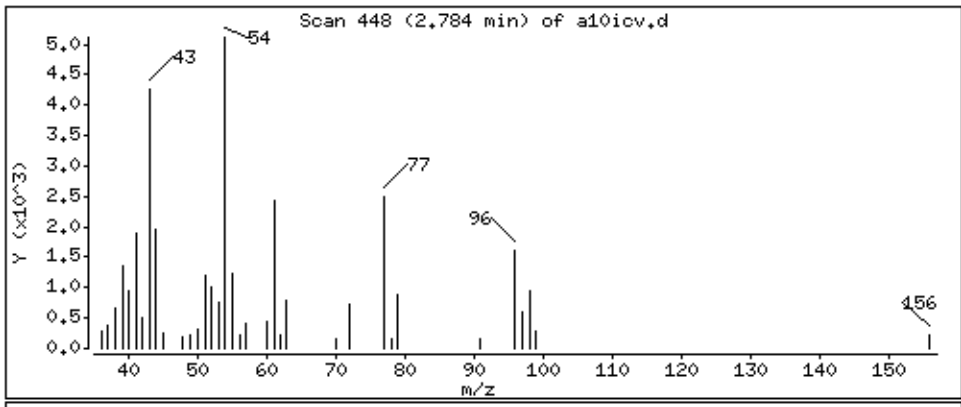
Operator: ala

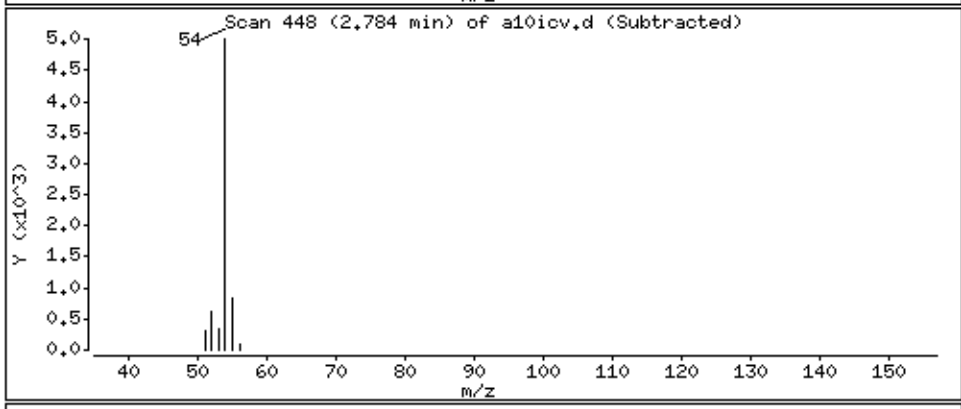
Column phase: DB-624

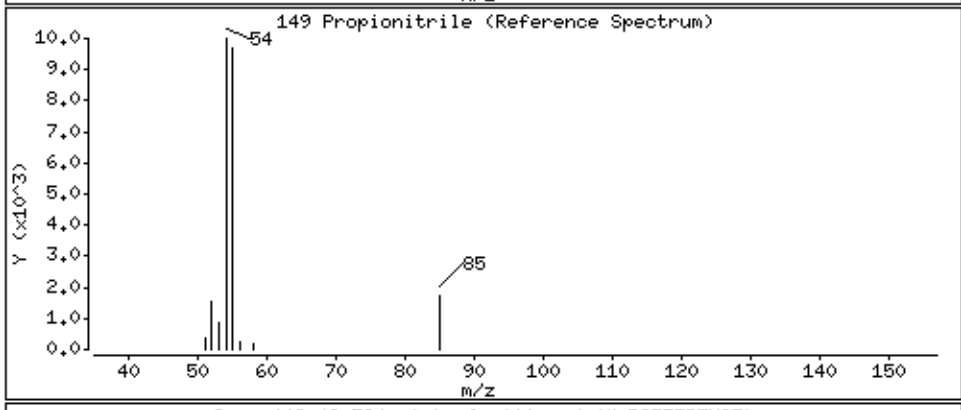
Column diameter: 0.18

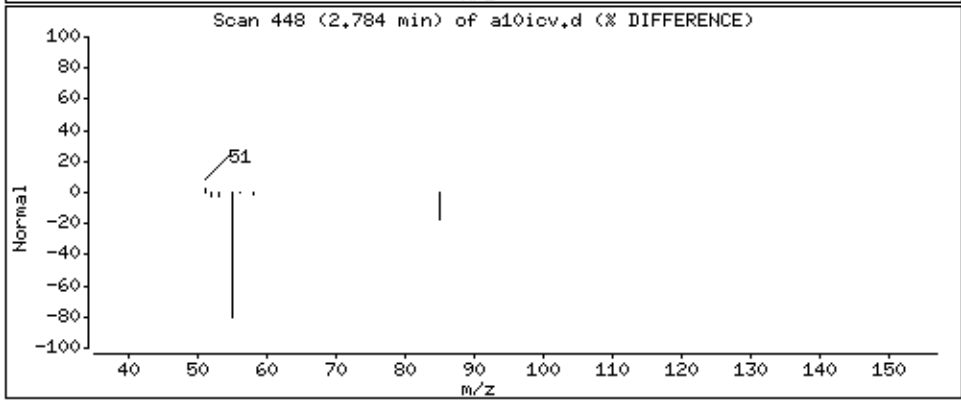
149 Propionitrile

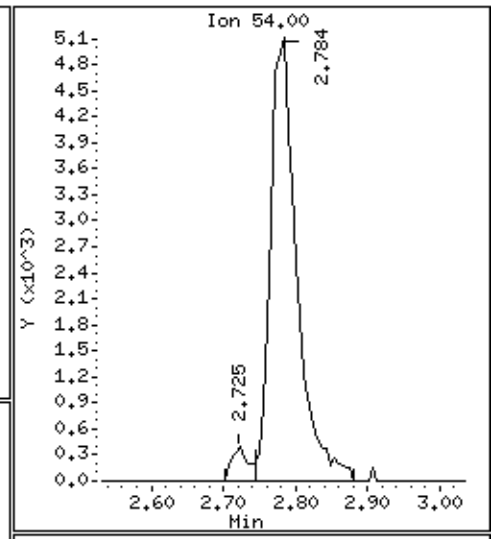
Concentration: 40.2 ppb

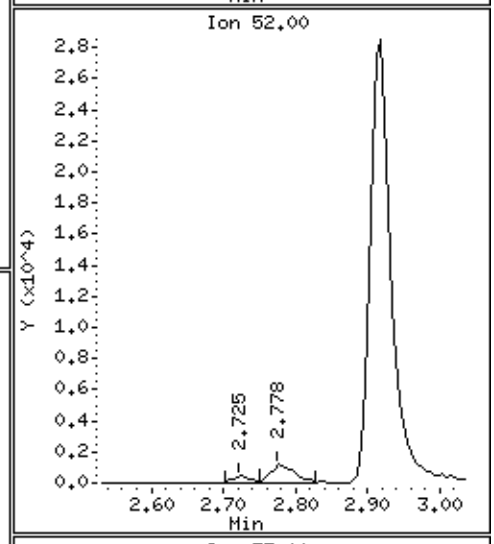


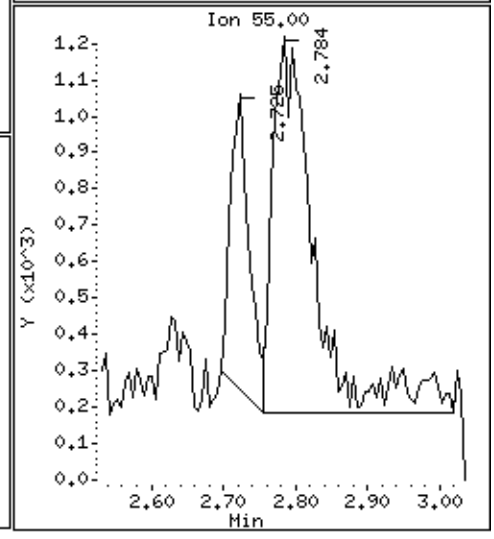












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 35

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

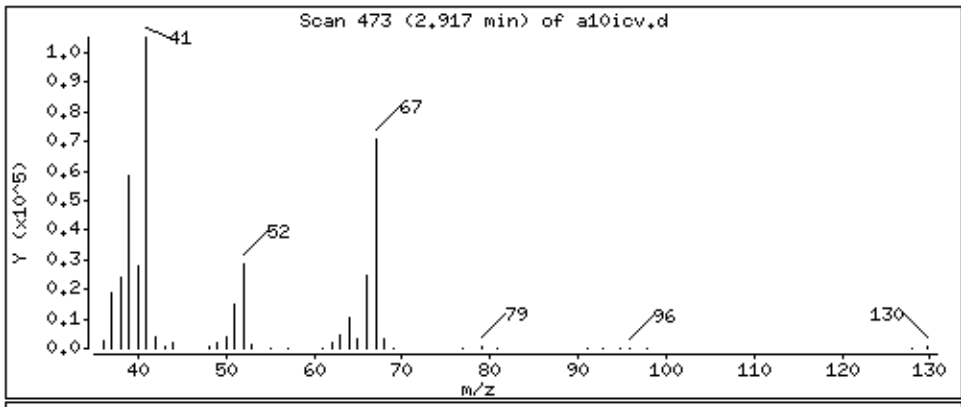
Operator: ala

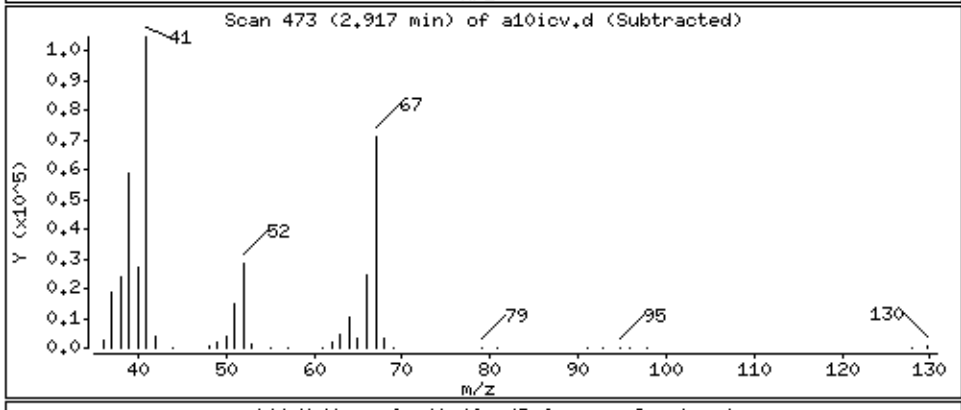
Column phase: DB-624

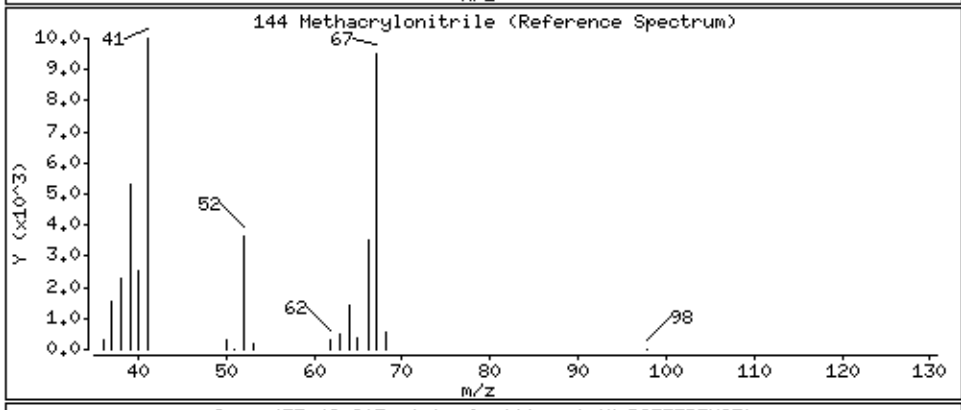
Column diameter: 0.18

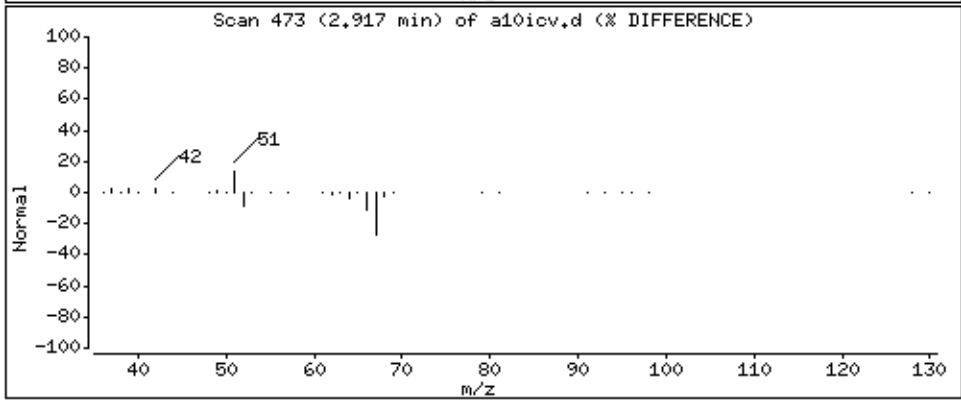
144 Methacrylonitrile

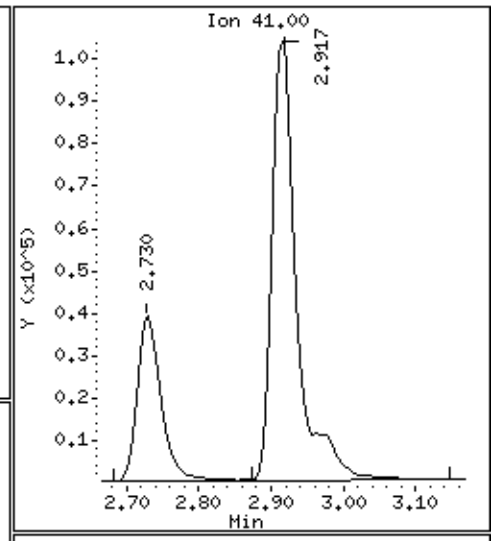
Concentration: 216 ppb

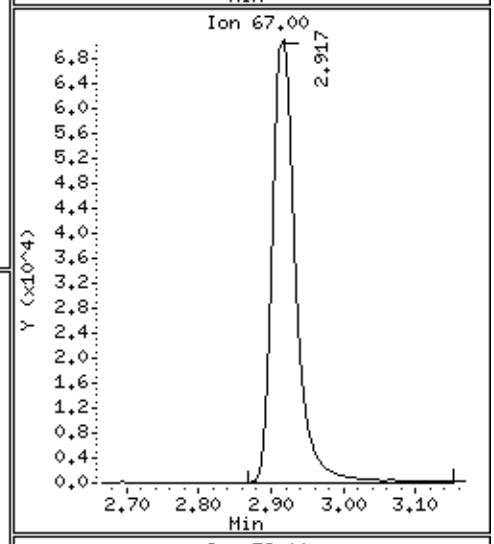


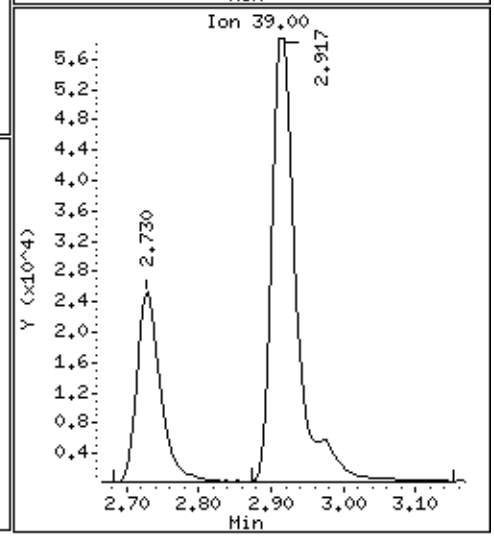












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 36

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

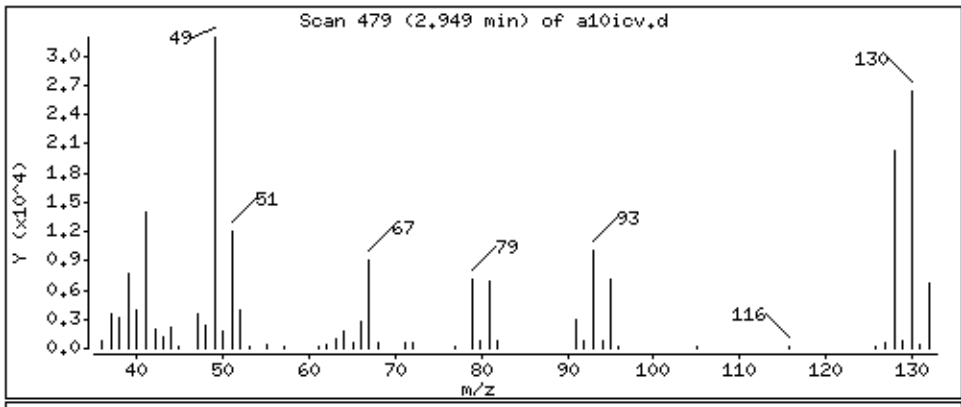
Operator: ala

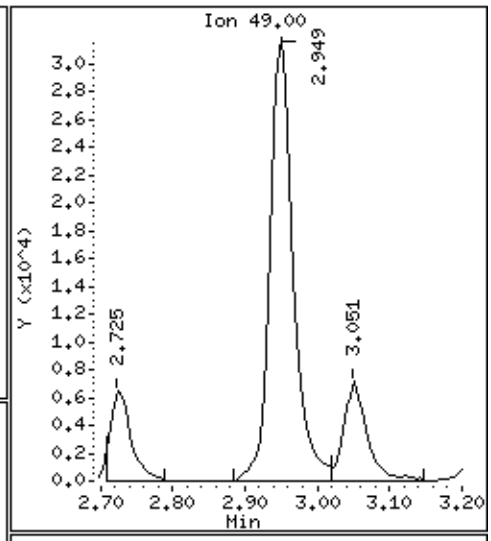
Column phase: DB-624

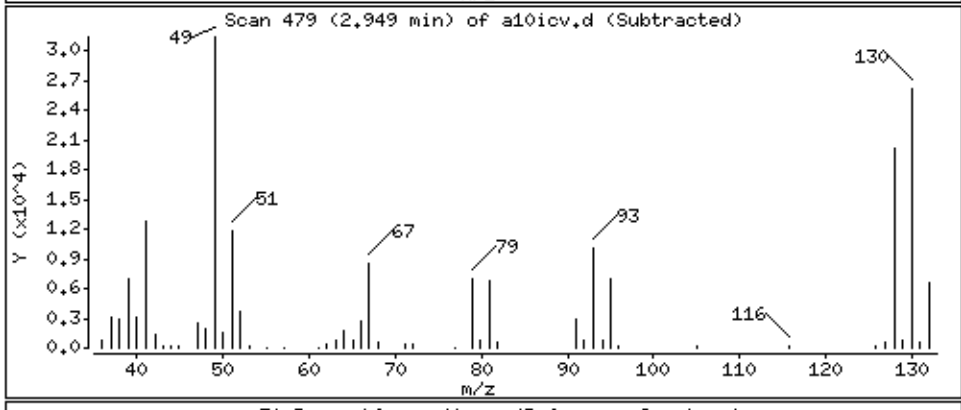
Column diameter: 0.18

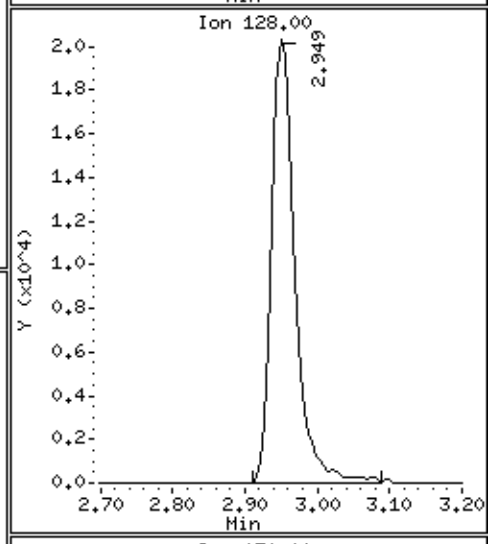
30 Bromochloromethane

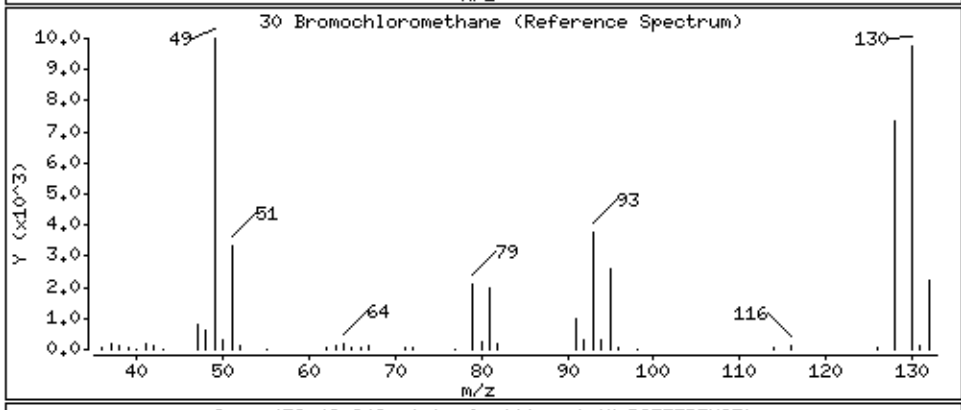
Concentration: 43.7 ppb

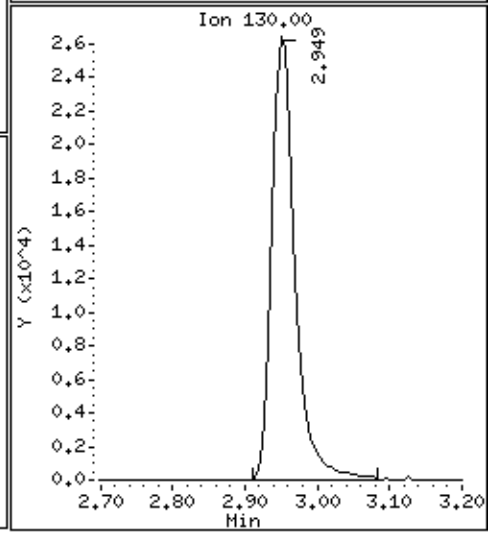


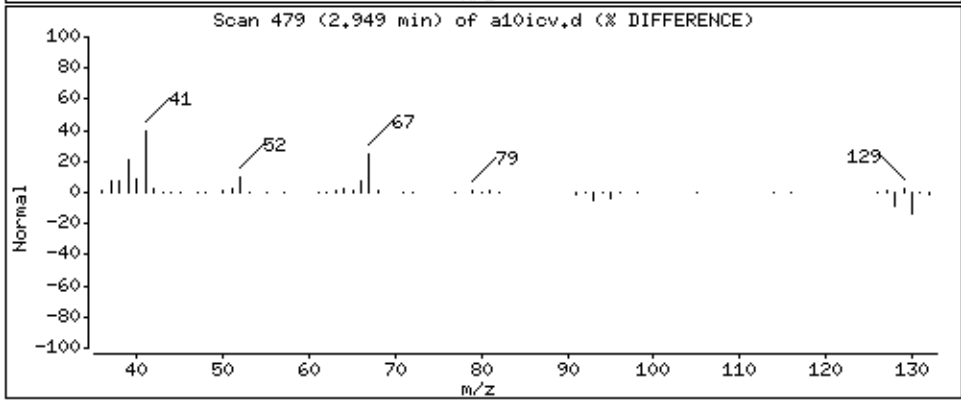












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

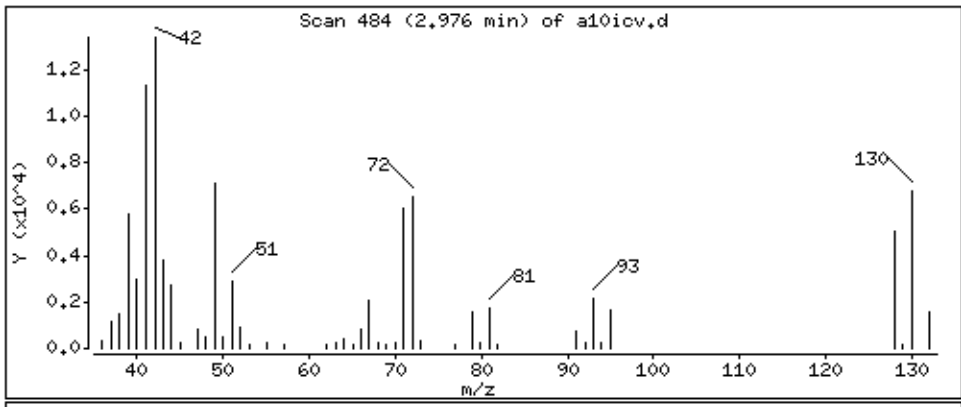
Operator: ala

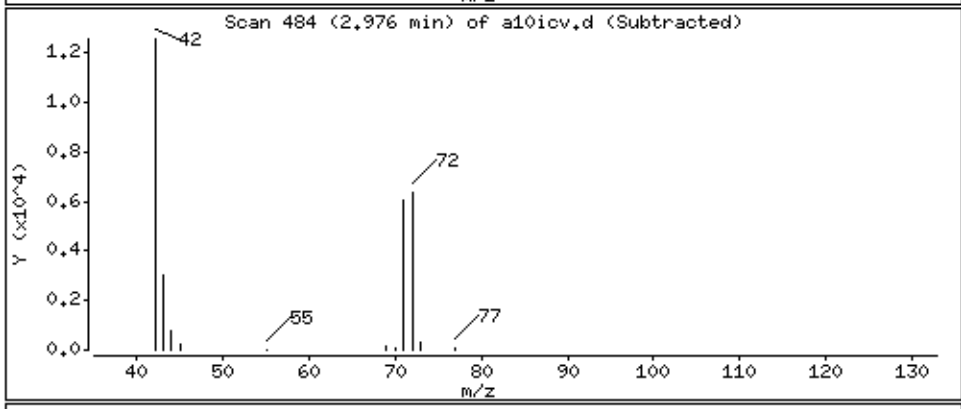
Column phase: DB-624

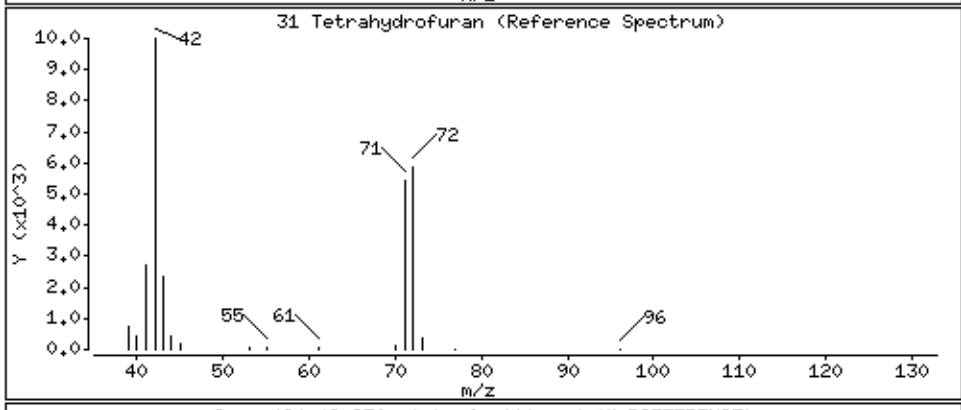
Column diameter: 0.18

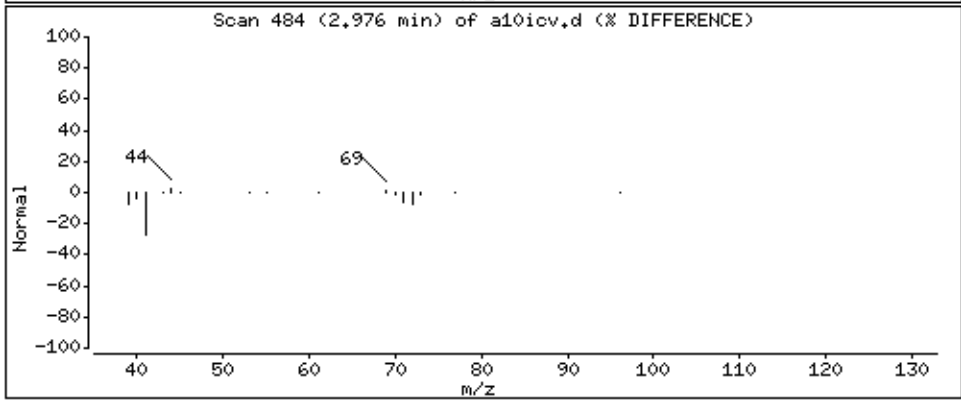
31 Tetrahydrofuran

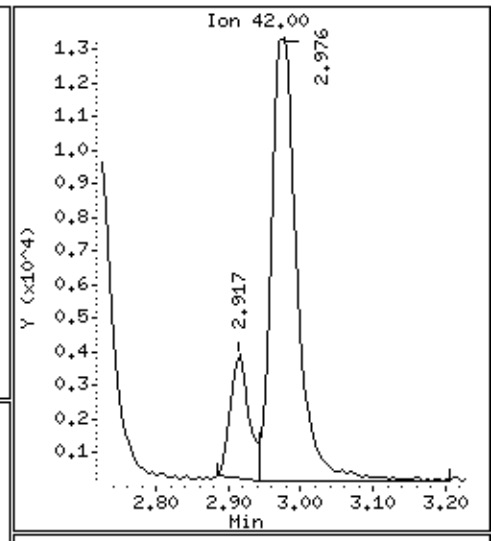
Concentration: 47.7 ppb

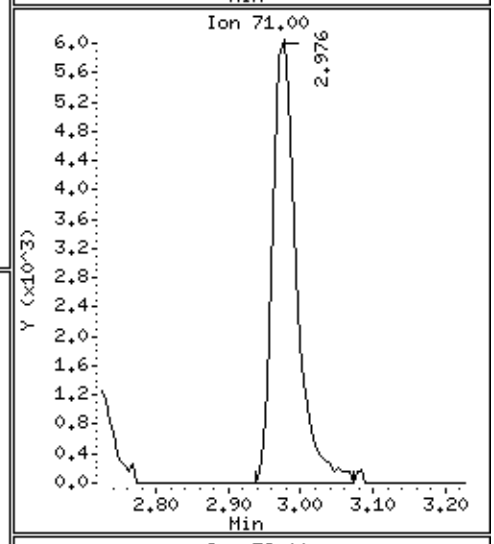


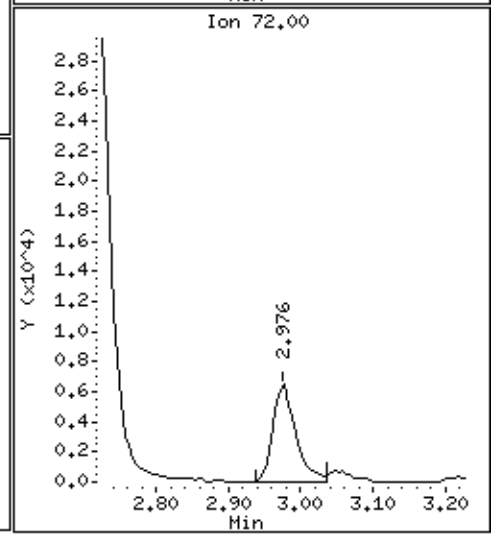












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

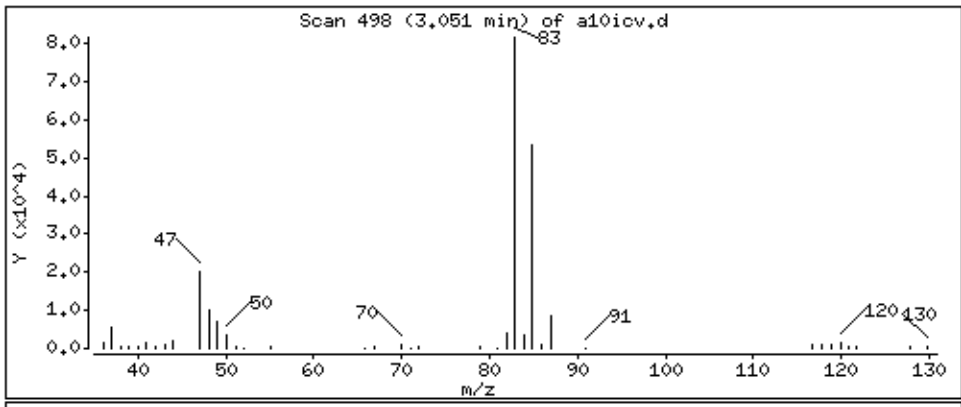
Operator: ala

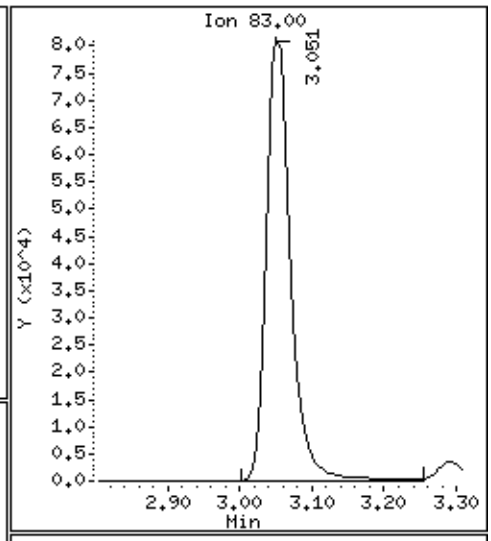
Column phase: DB-624

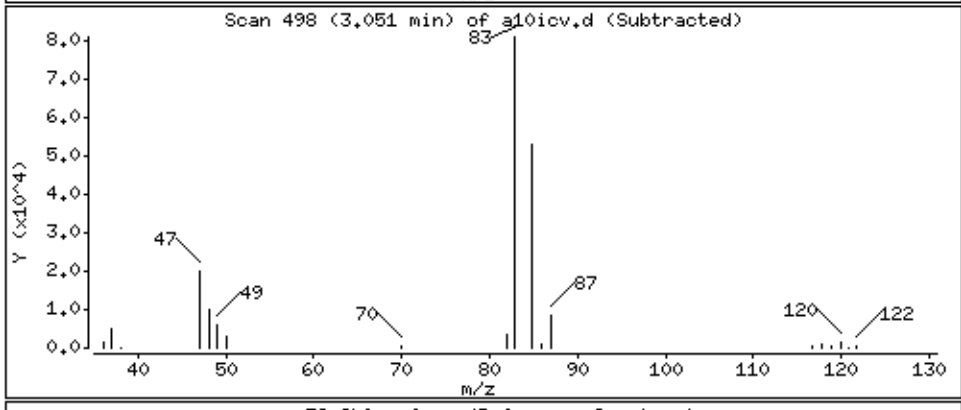
Column diameter: 0.18

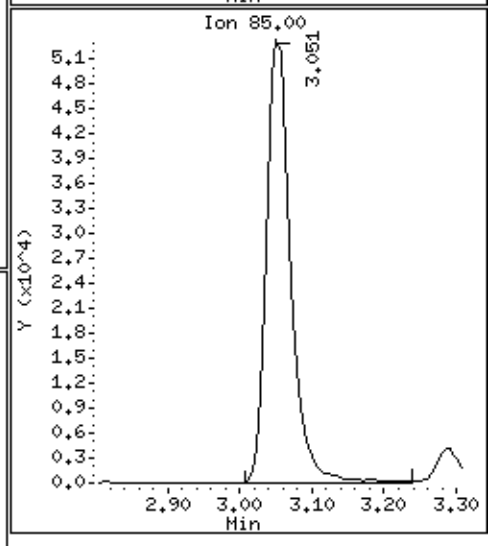
32 Chloroform

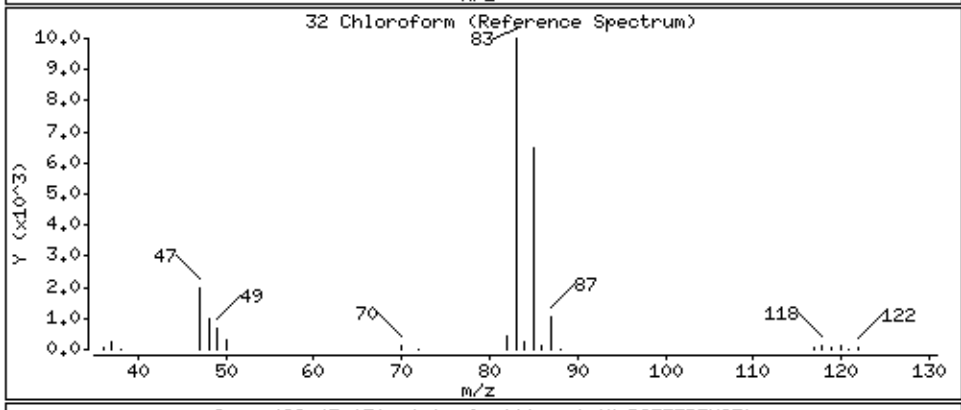
Concentration: 42.5 ppb

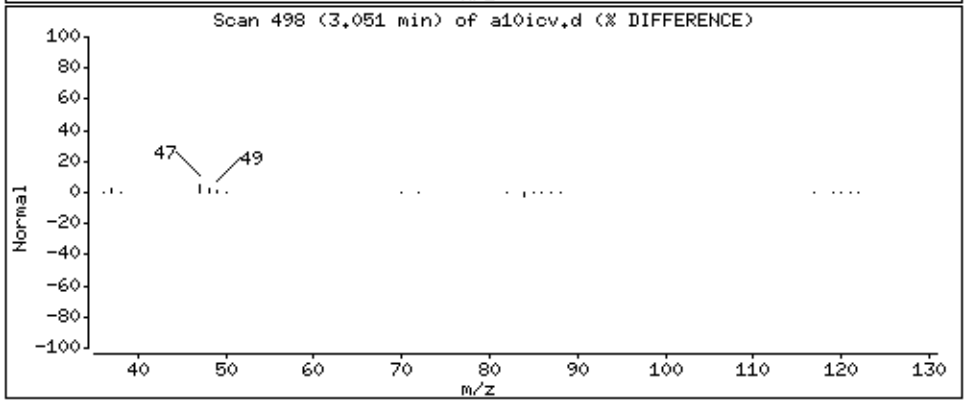












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

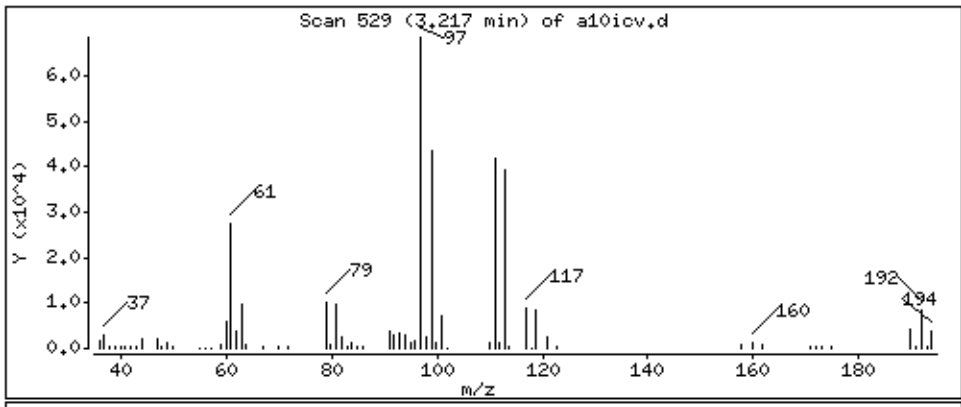
Operator: ala

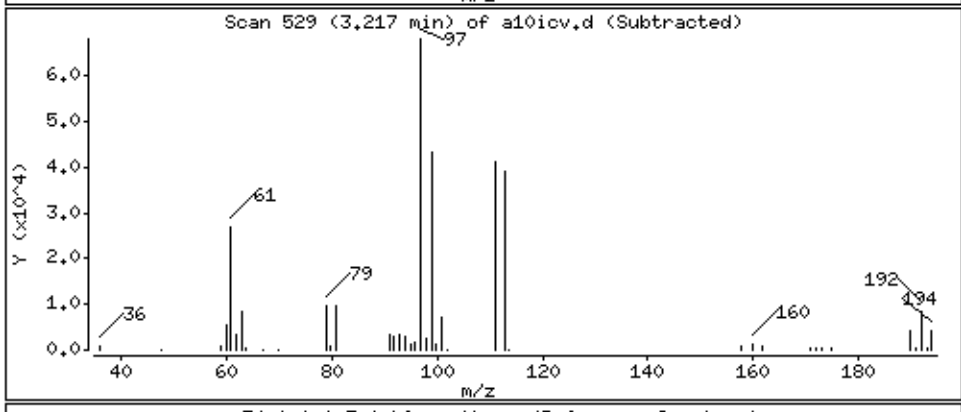
Column phase: DB-624

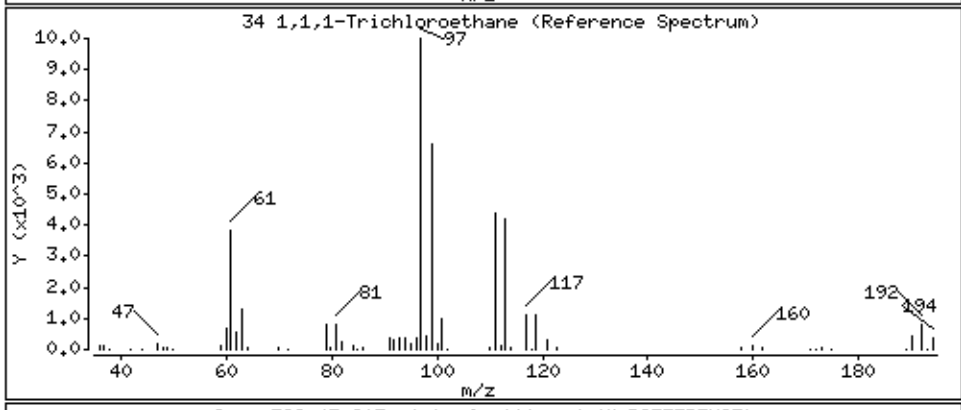
Column diameter: 0.18

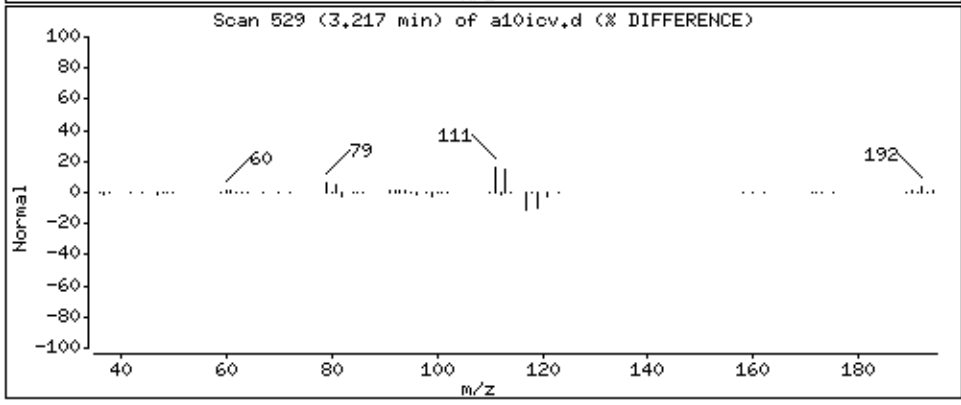
34 1,1,1-Trichloroethane

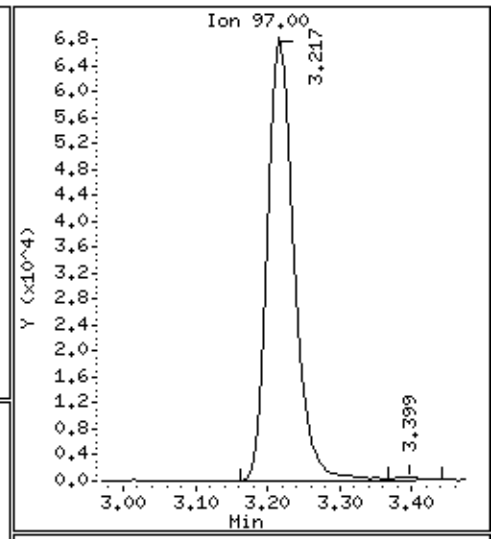
Concentration: 40.6 ppb

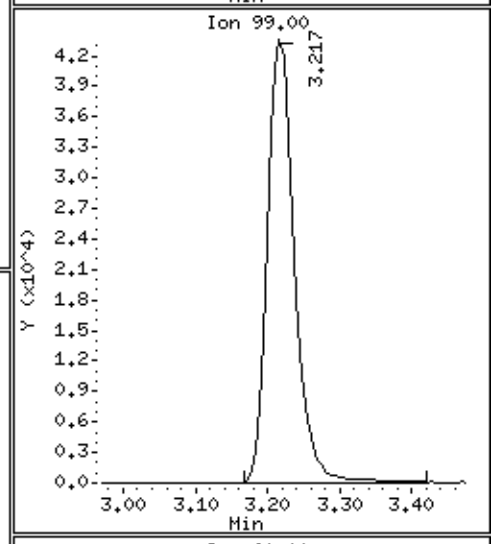


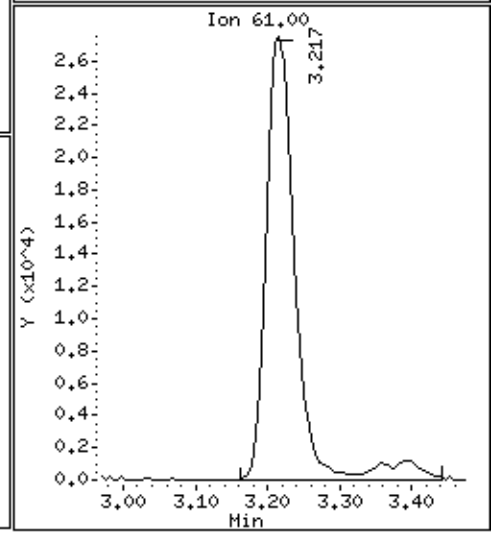












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

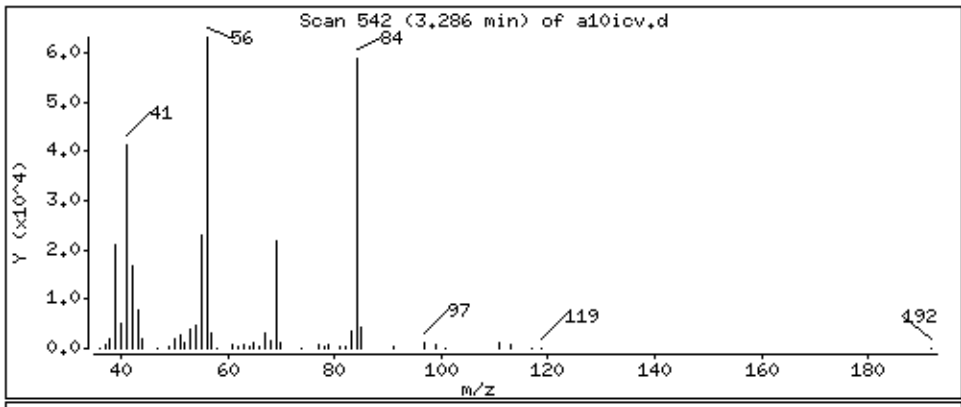
Operator: ala

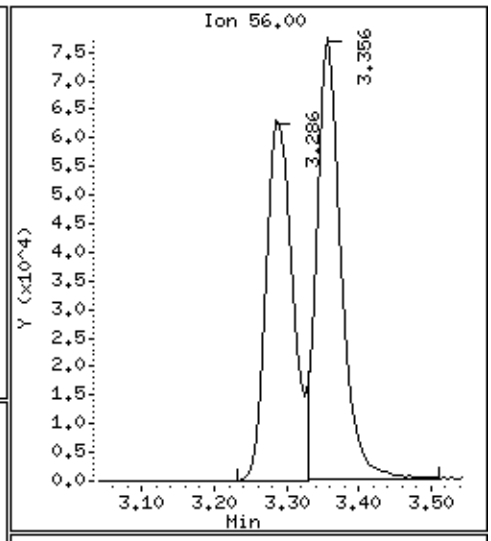
Column phase: DB-624

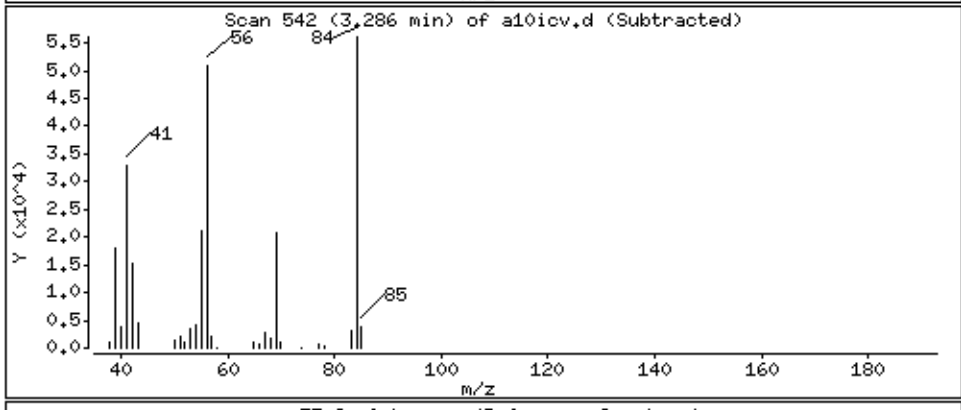
Column diameter: 0.18

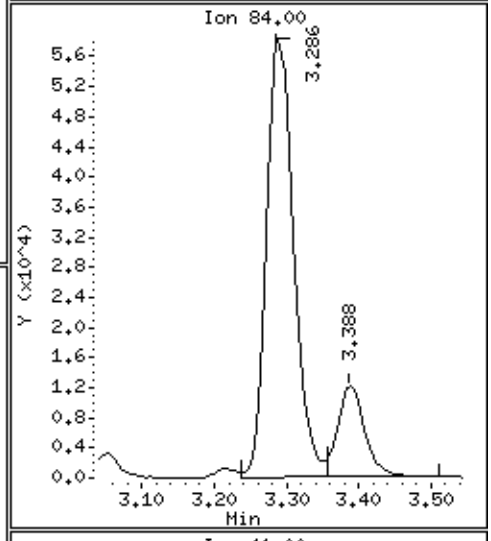
35 Cyclohexane

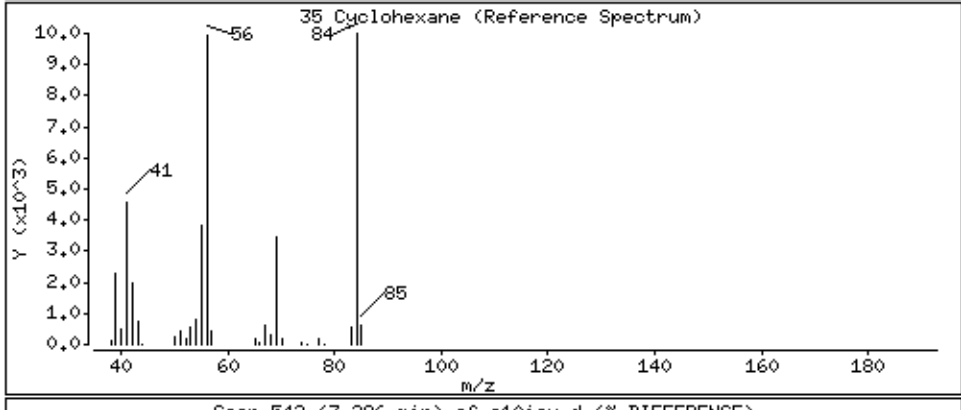
Concentration: 47.8 ppb

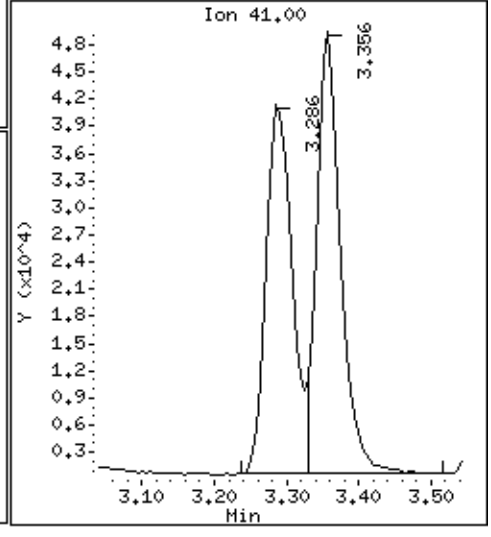


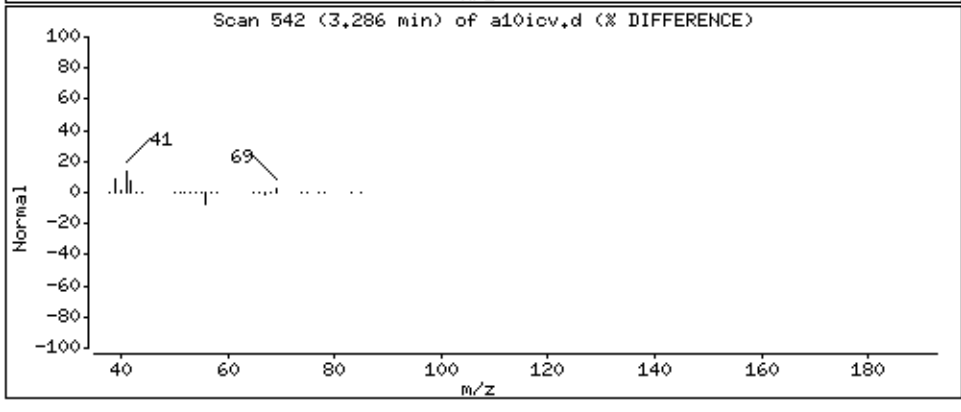












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

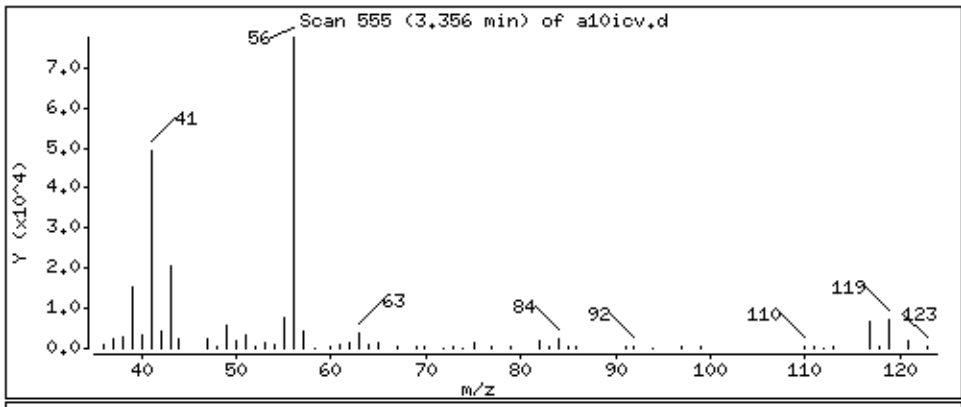
Operator: ala

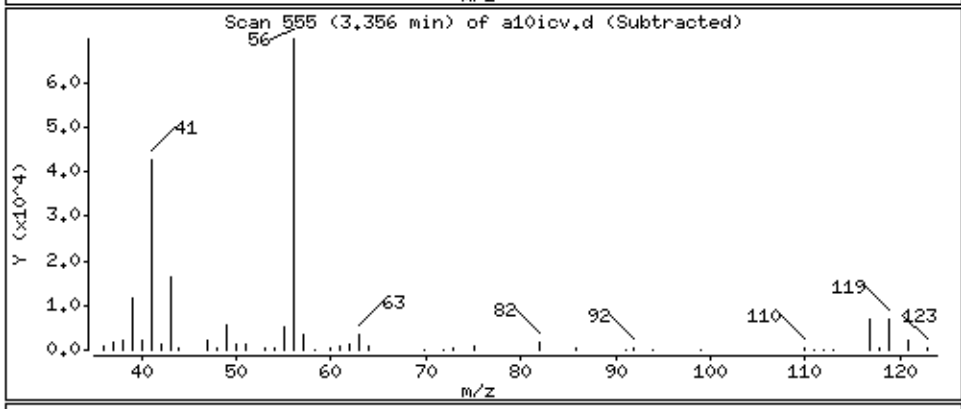
Column phase: DB-624

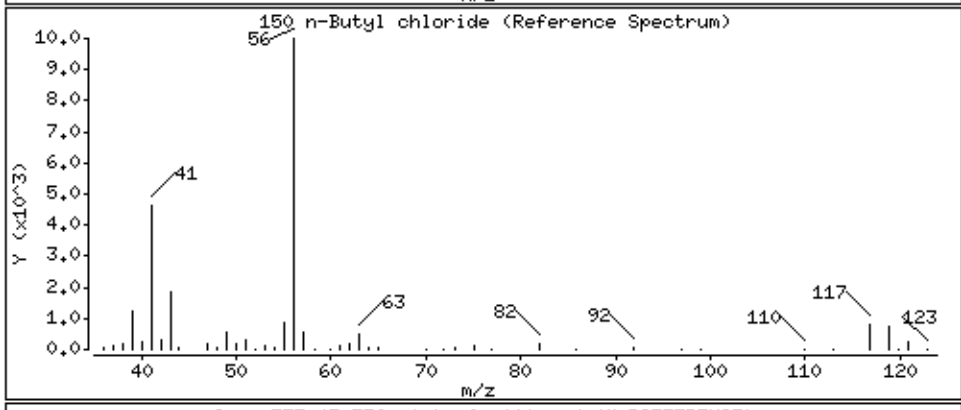
Column diameter: 0.18

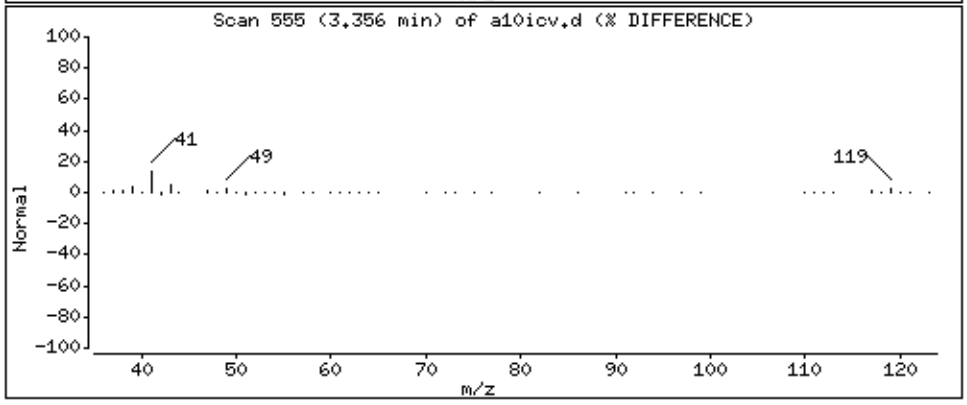
150 n-Butyl chloride

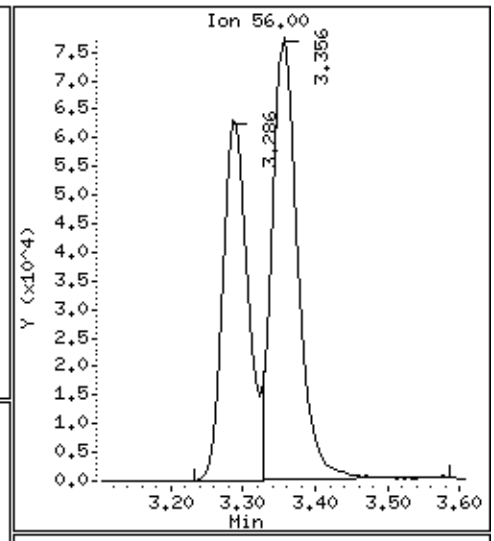
Concentration: 48.3 ppb

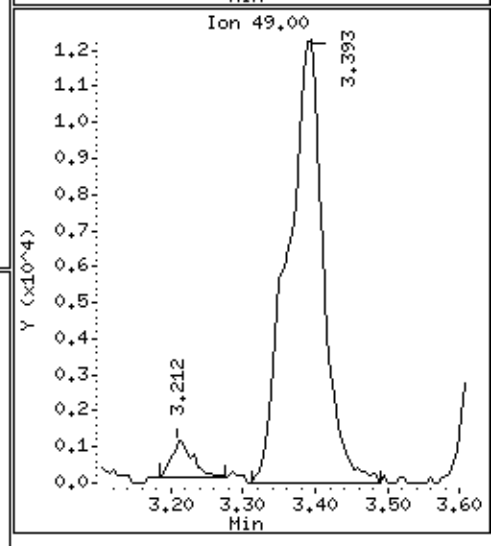












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 42

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

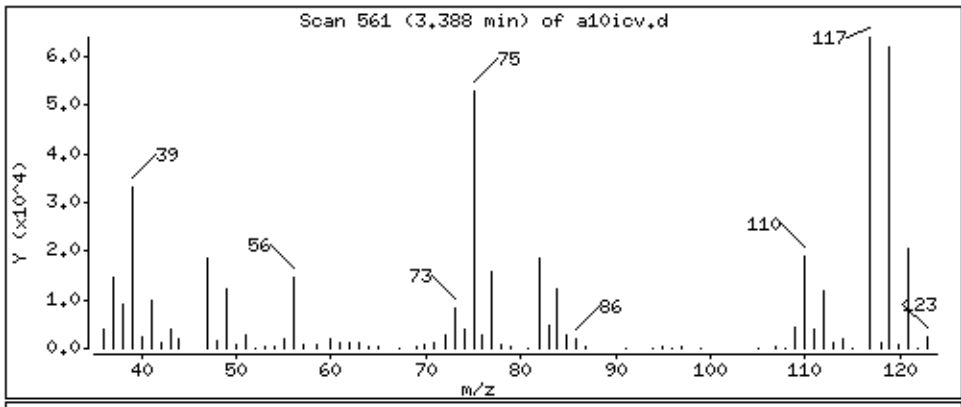
Operator: ala

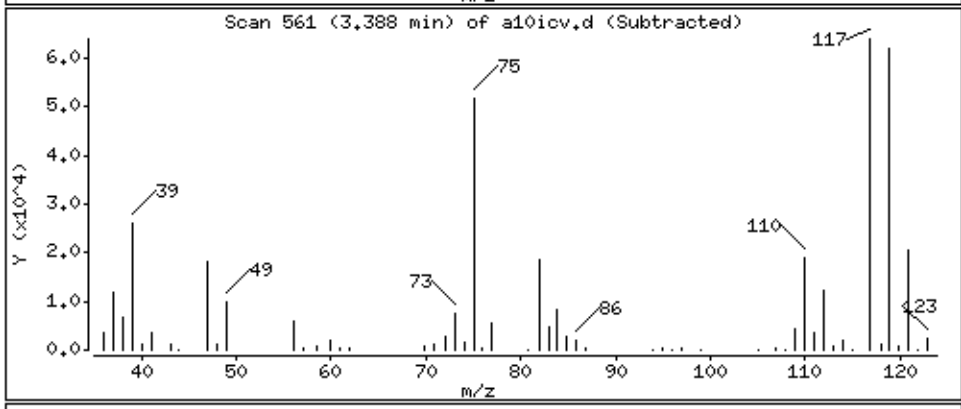
Column phase: DB-624

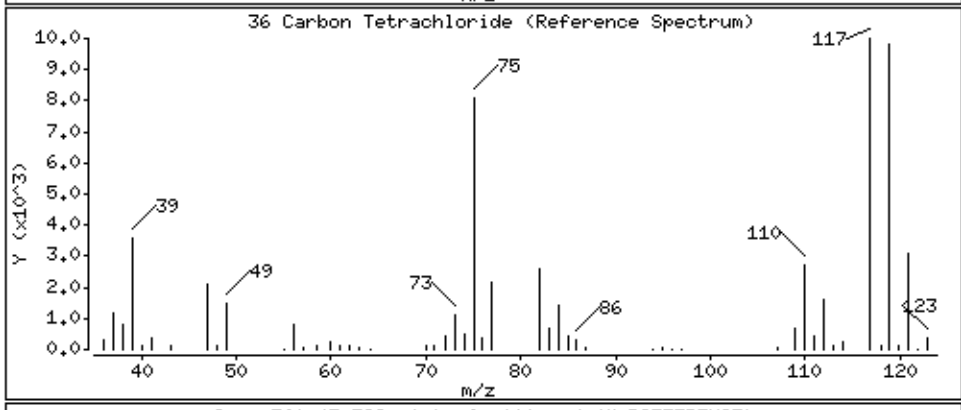
Column diameter: 0.18

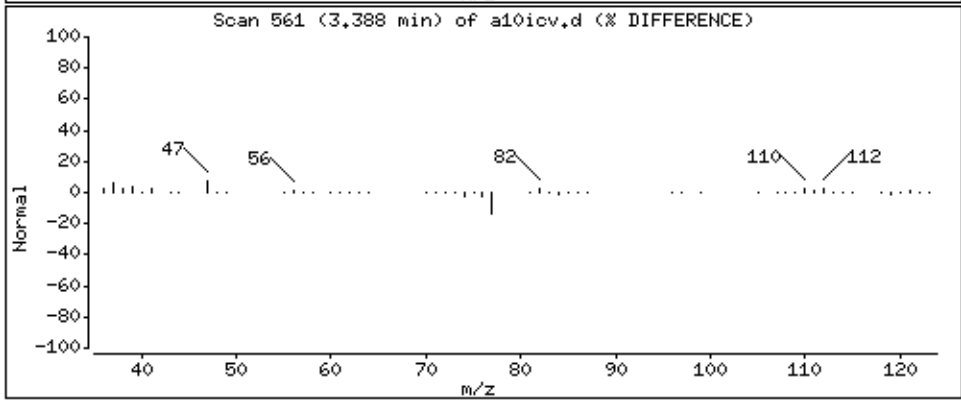
36 Carbon Tetrachloride

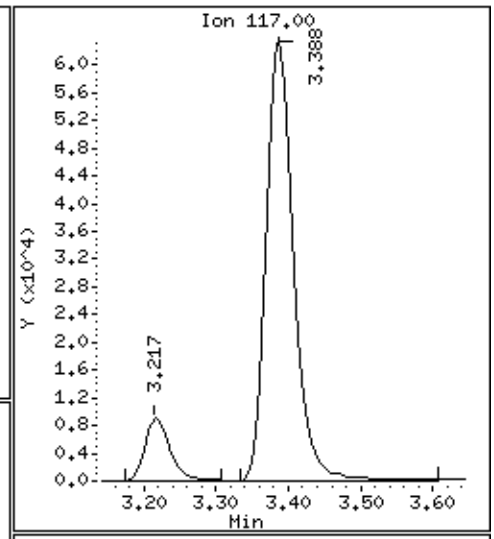
Concentration: 45.7 ppb

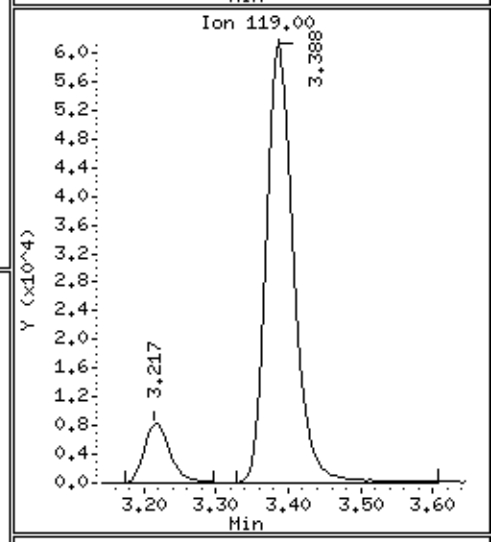


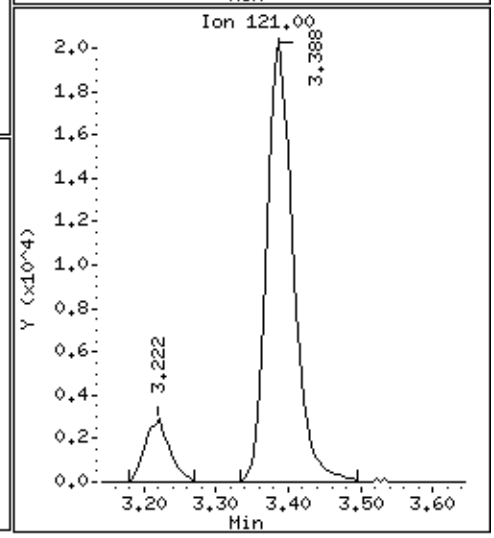












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 43

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

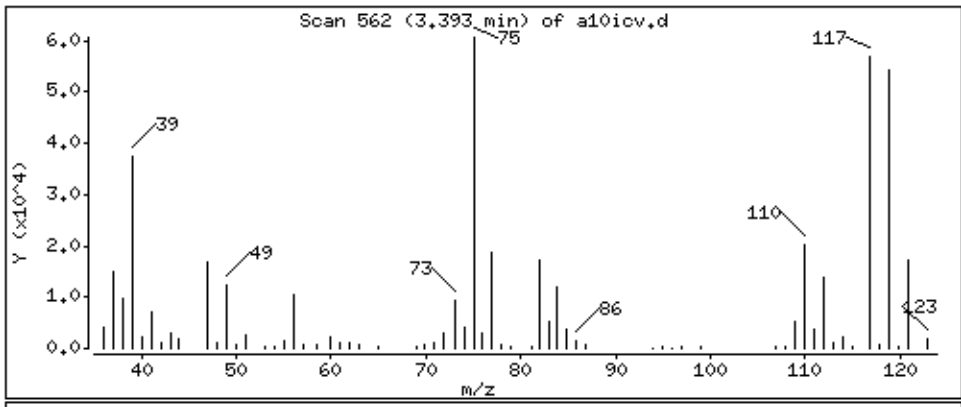
Operator: ala

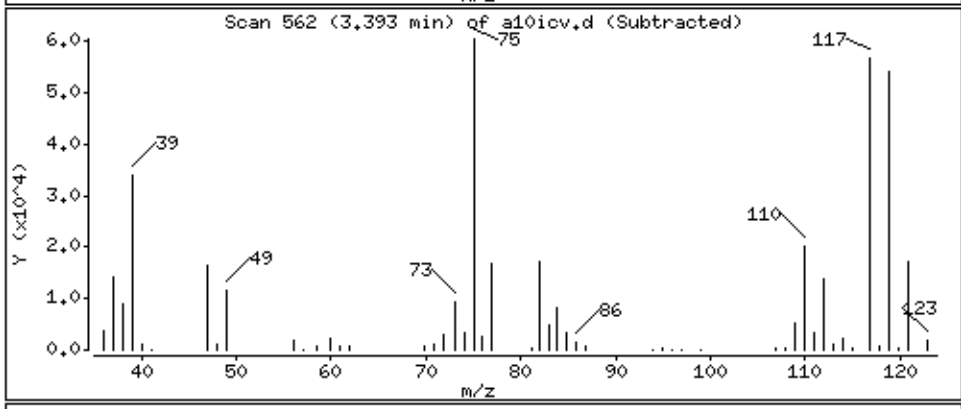
Column phase: DB-624

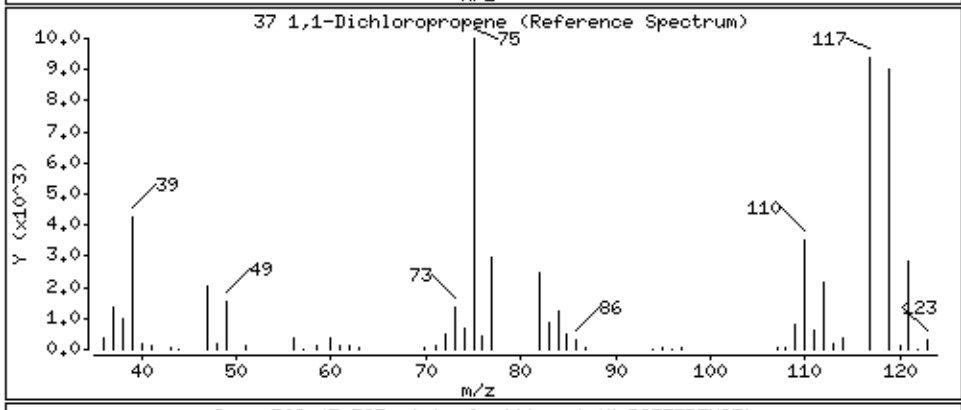
Column diameter: 0.18

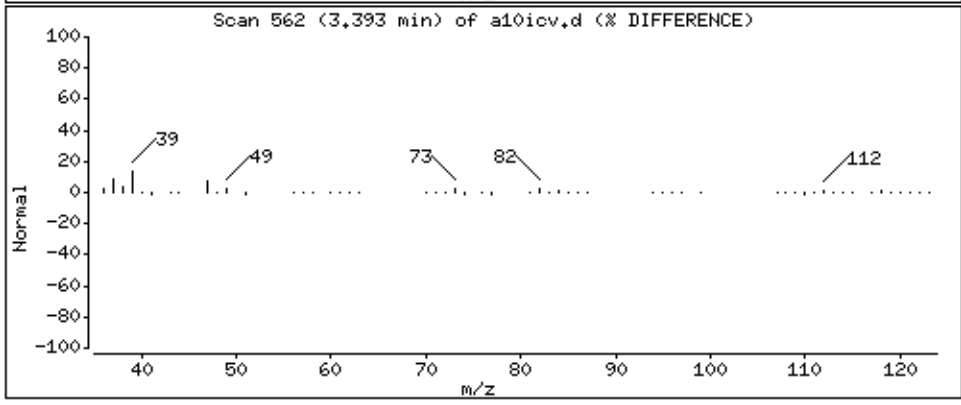
37 1,1-Dichloropropene

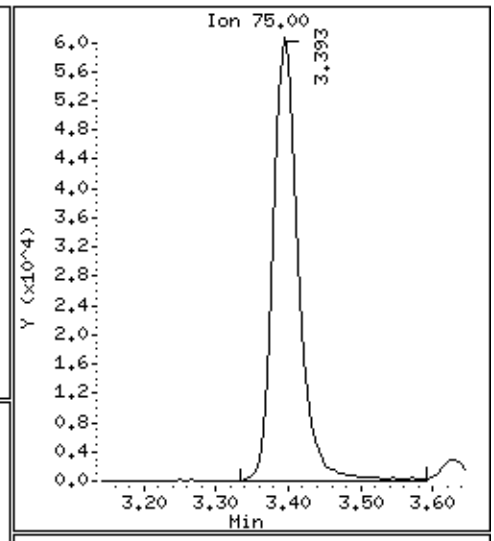
Concentration: 49.2 ppb

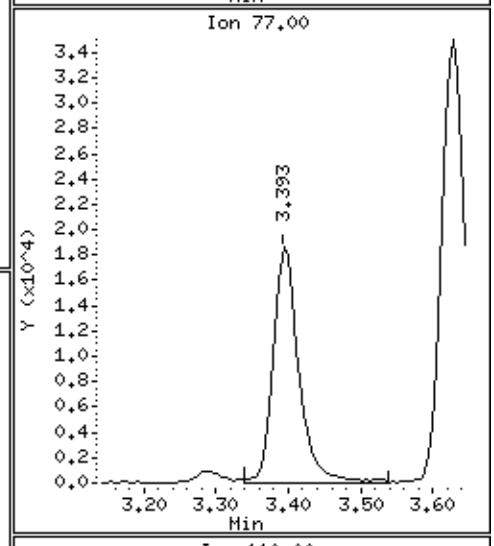


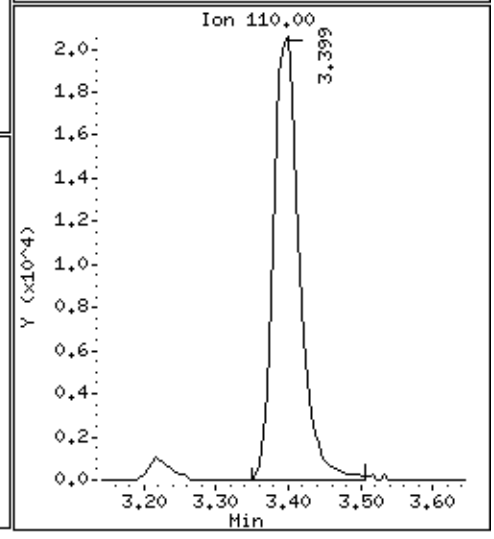












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

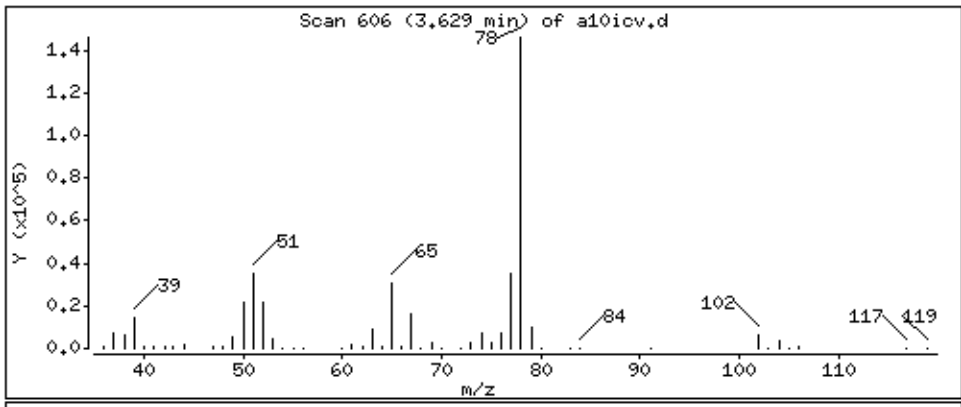
Operator: ala

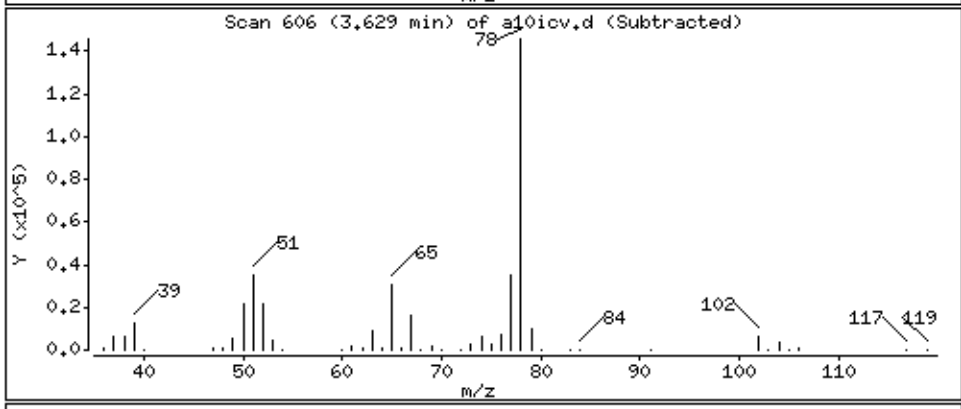
Column phase: DB-624

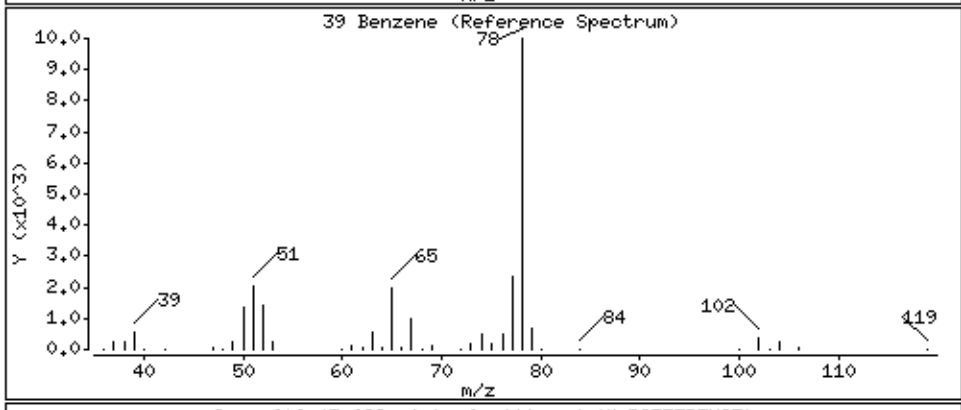
Column diameter: 0.18

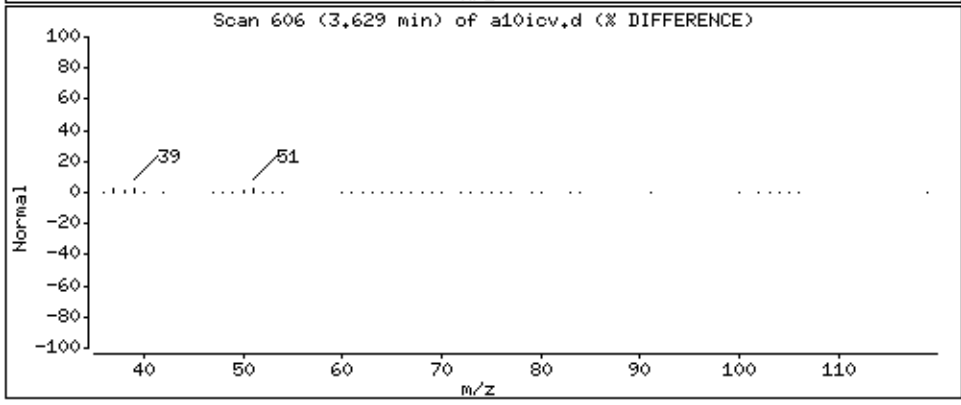
39 Benzene

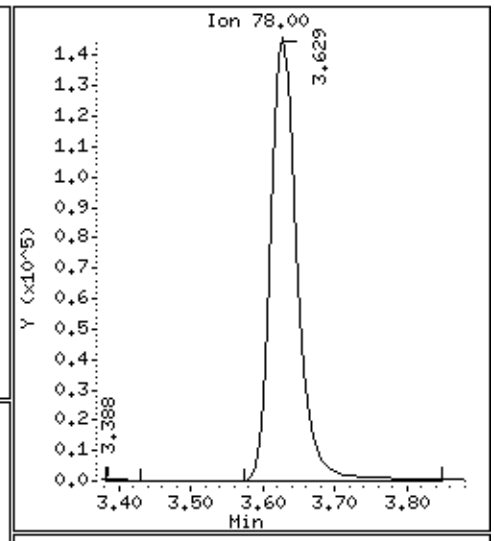
Concentration: 46.7 ppb

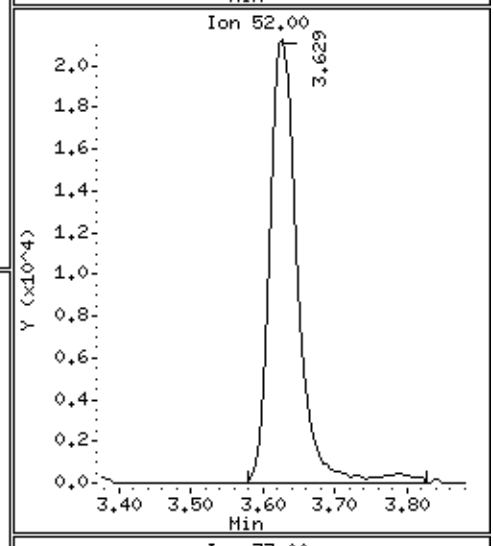


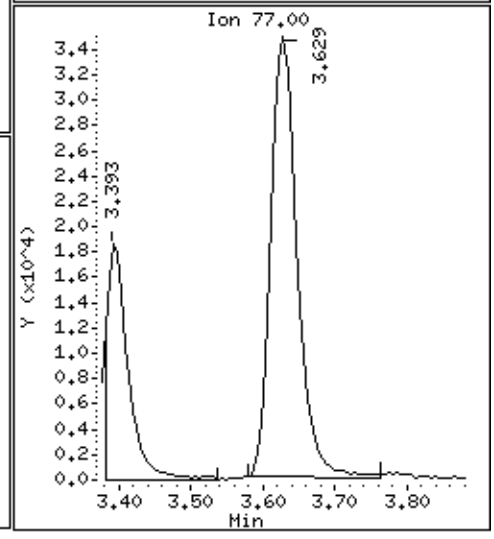












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

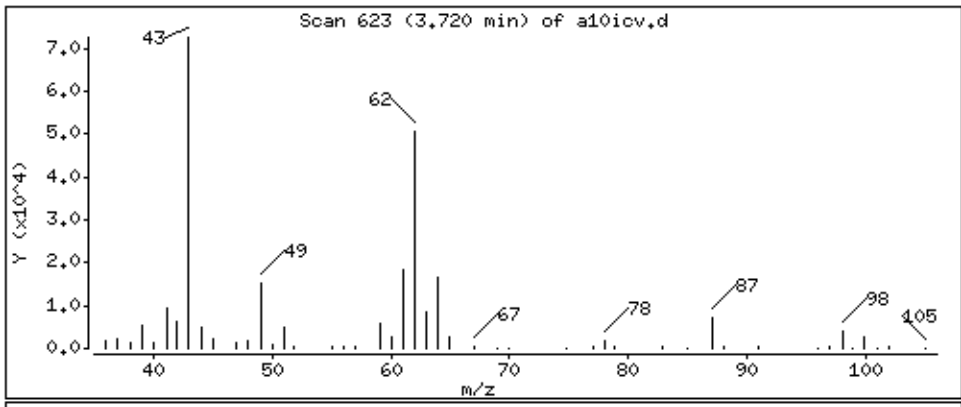
Operator: ala

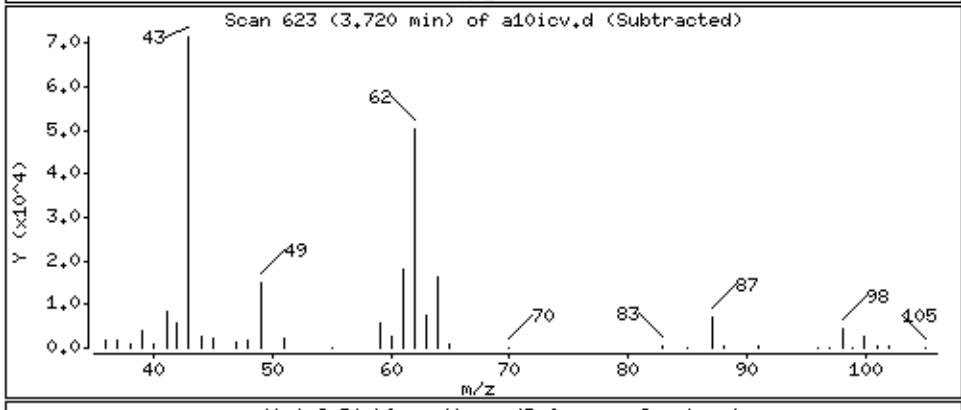
Column phase: DB-624

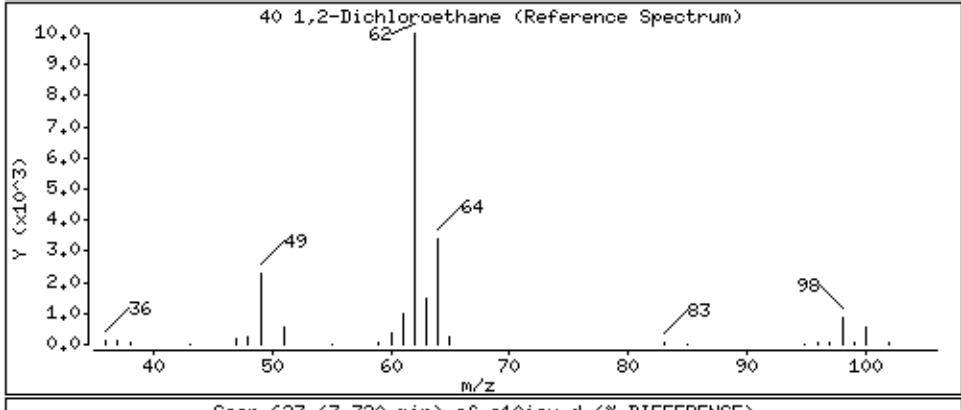
Column diameter: 0.18

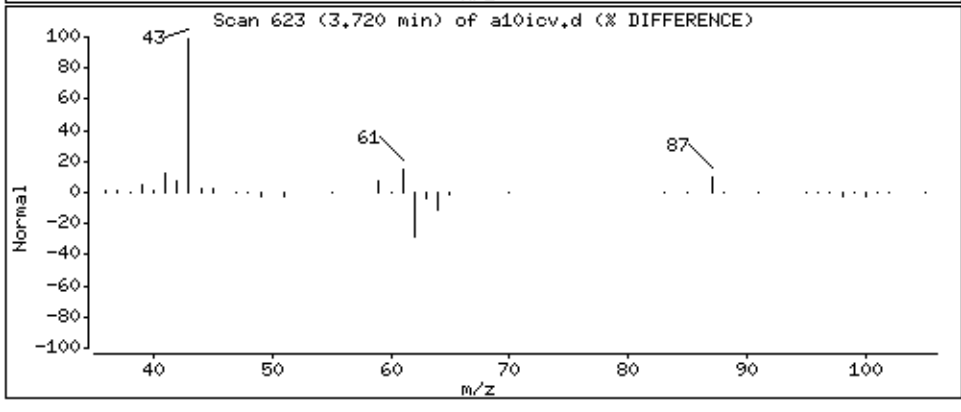
40 1,2-Dichloroethane

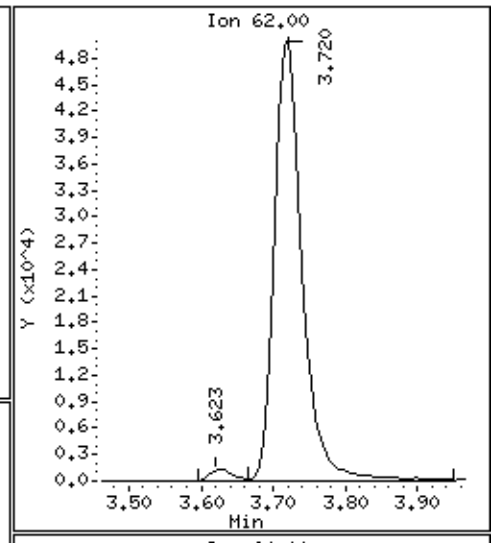
Concentration: 46.2 ppb

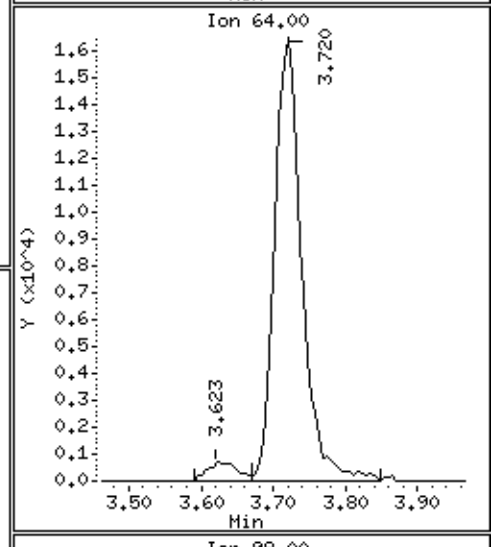


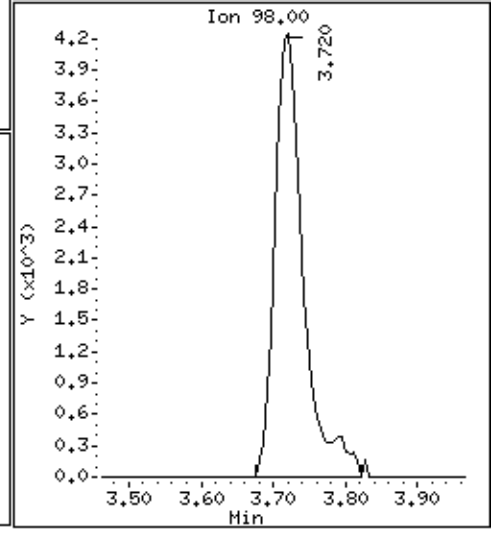












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

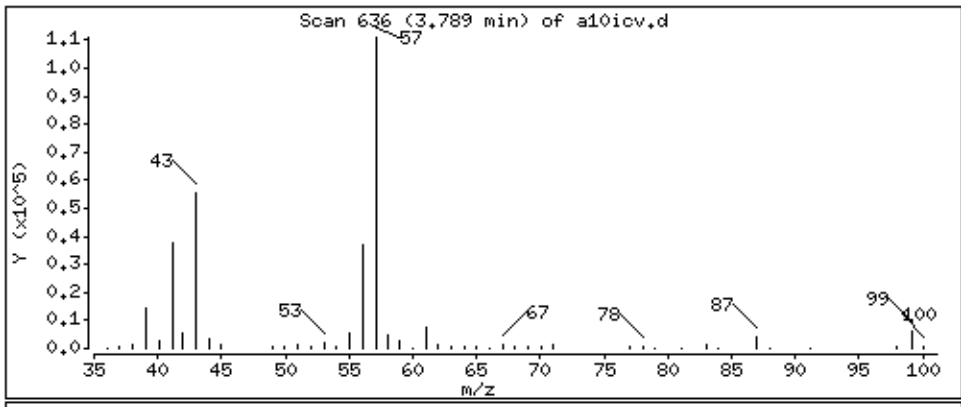
Operator: ala

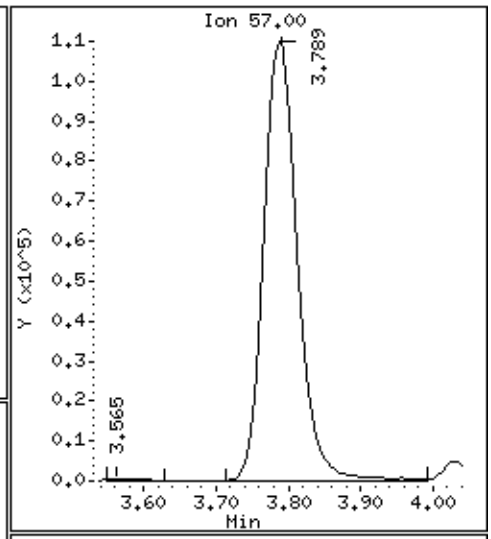
Column phase: DB-624

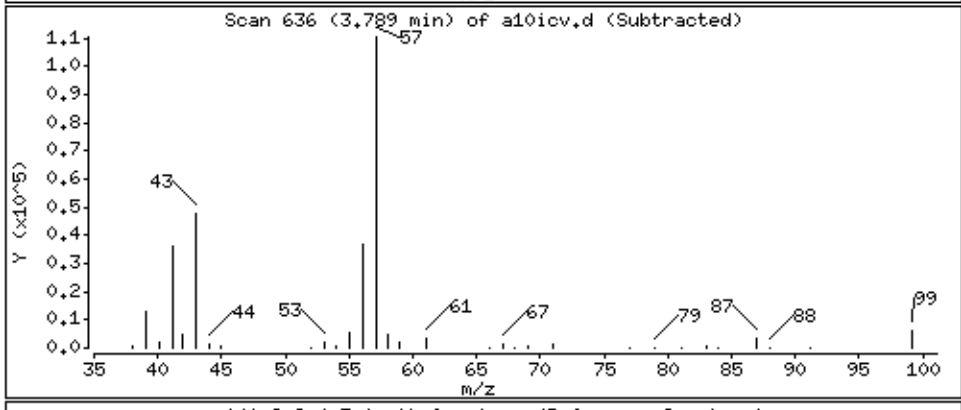
Column diameter: 0.18

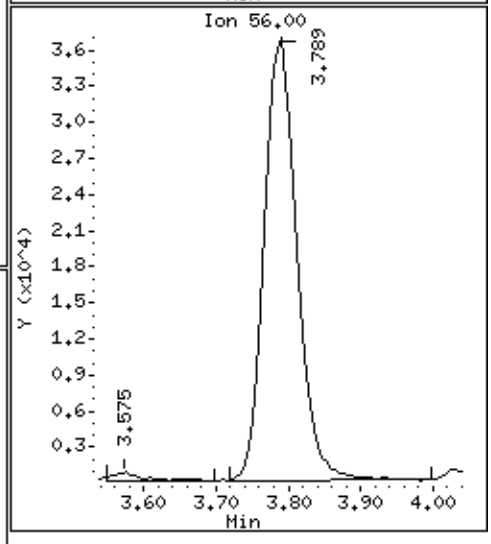
141 2,2,4-Trimethylpentane

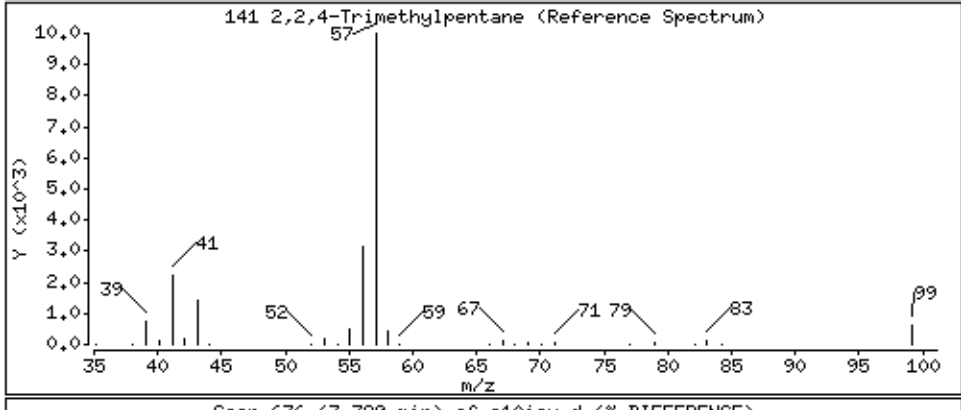
Concentration: 48.9 ppb

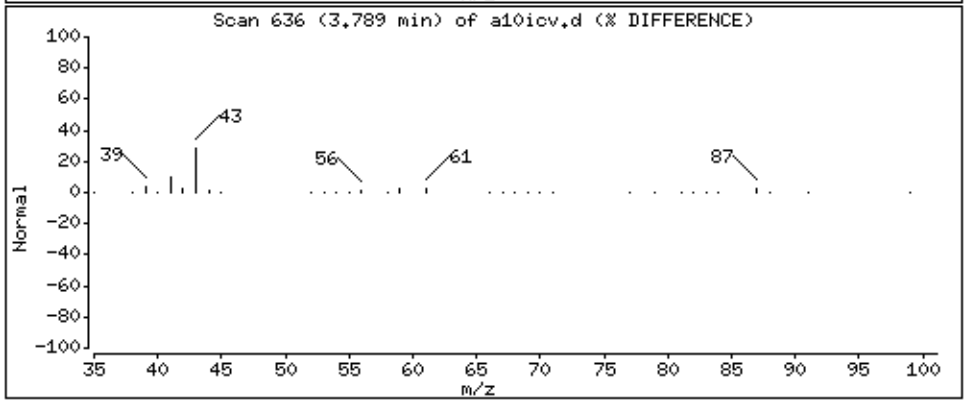












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 47

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

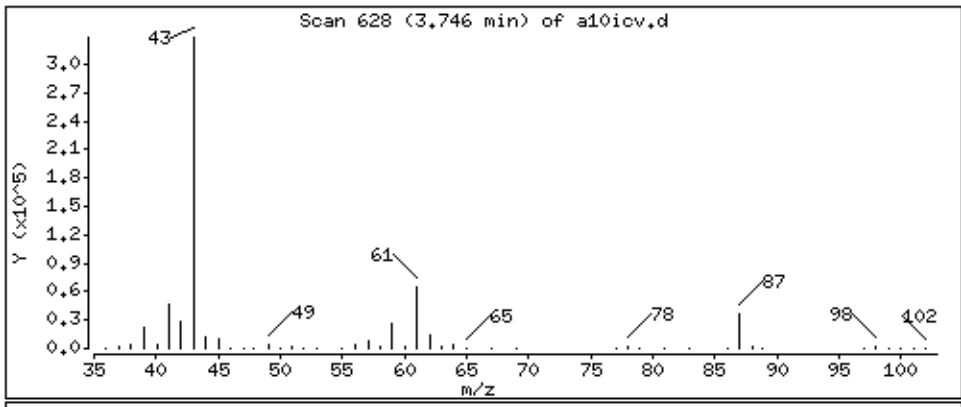
Operator: ala

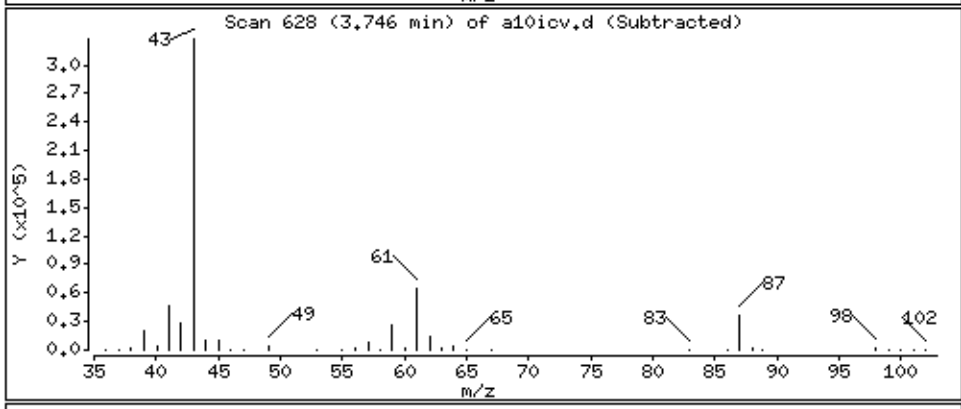
Column phase: DB-624

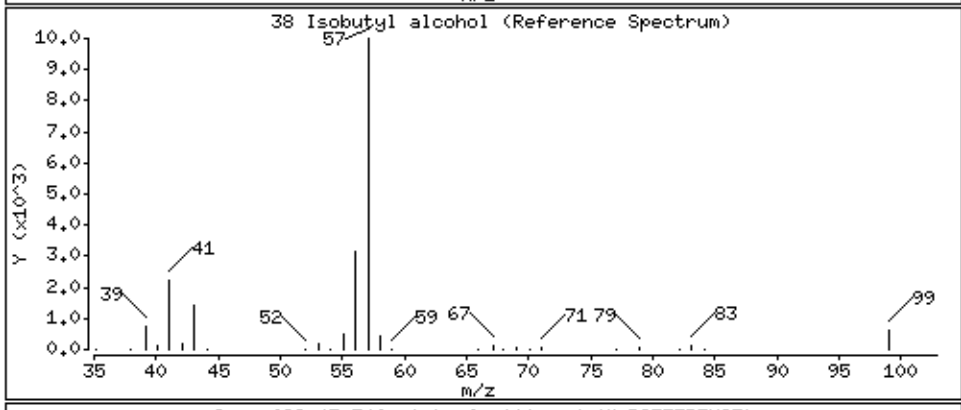
Column diameter: 0.18

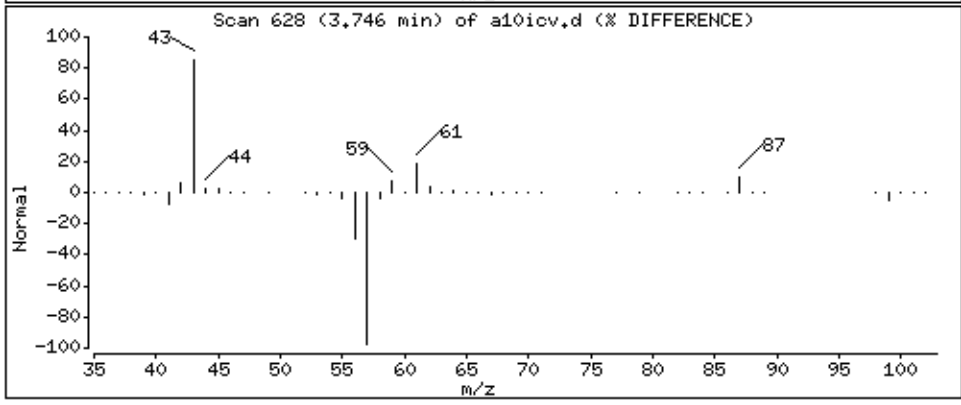
38 Isobutyl alcohol

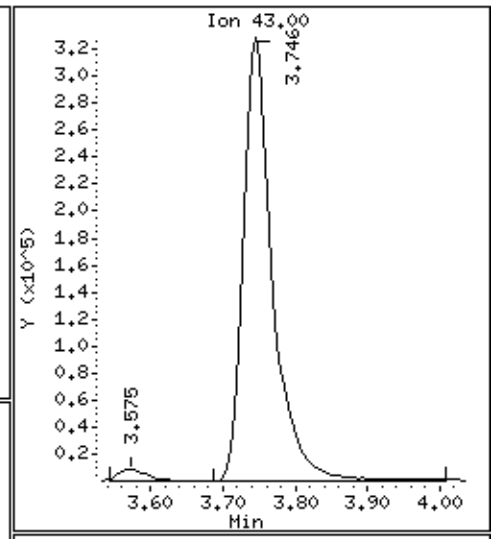
Concentration: 661 ppb

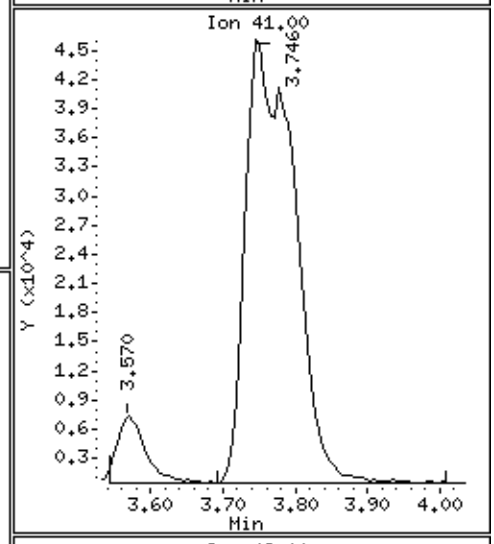


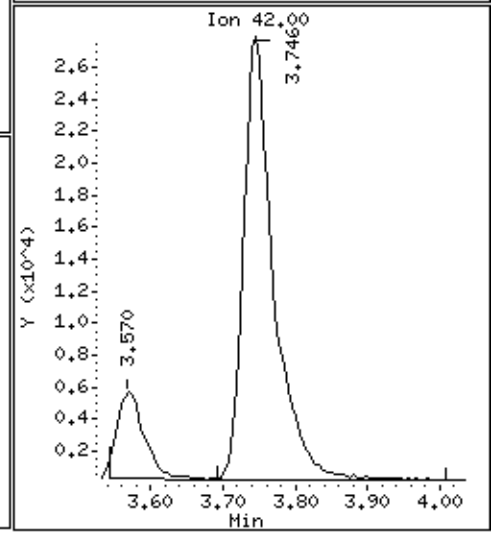












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

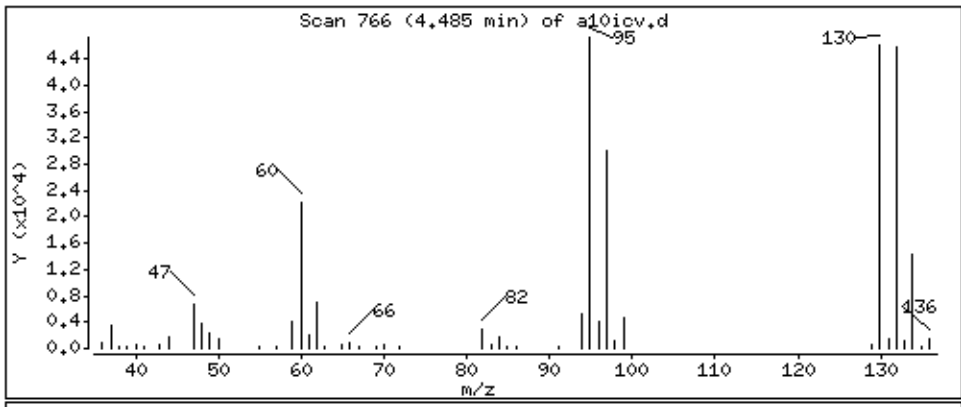
Operator: ala

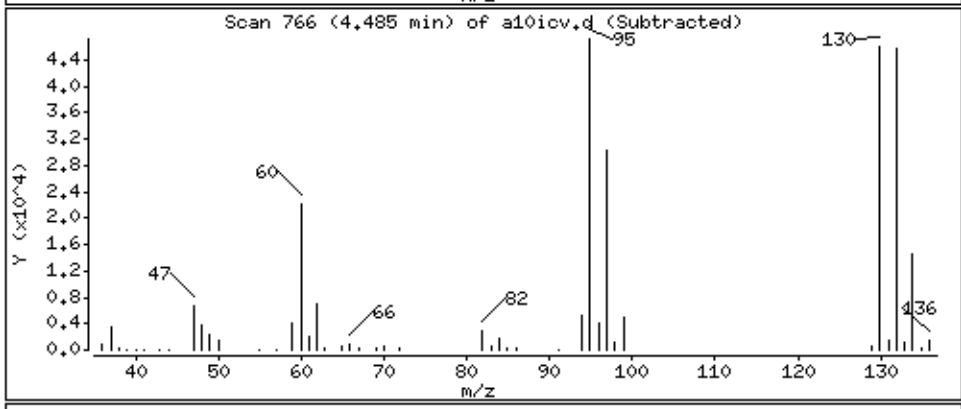
Column phase: DB-624

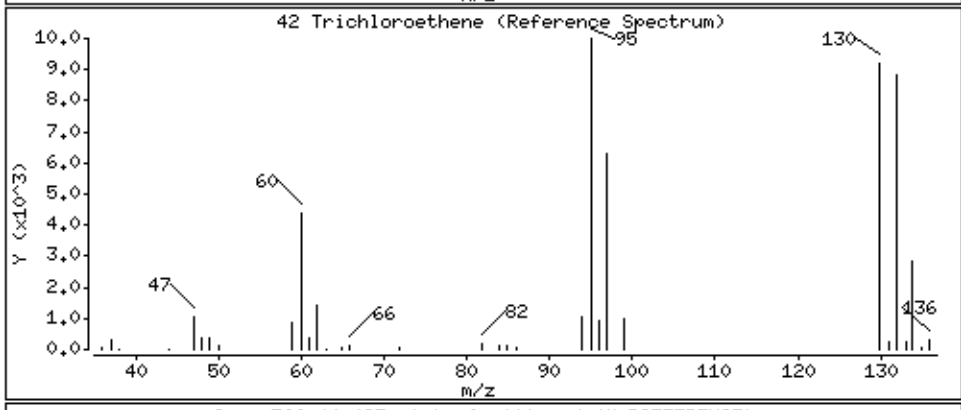
Column diameter: 0.18

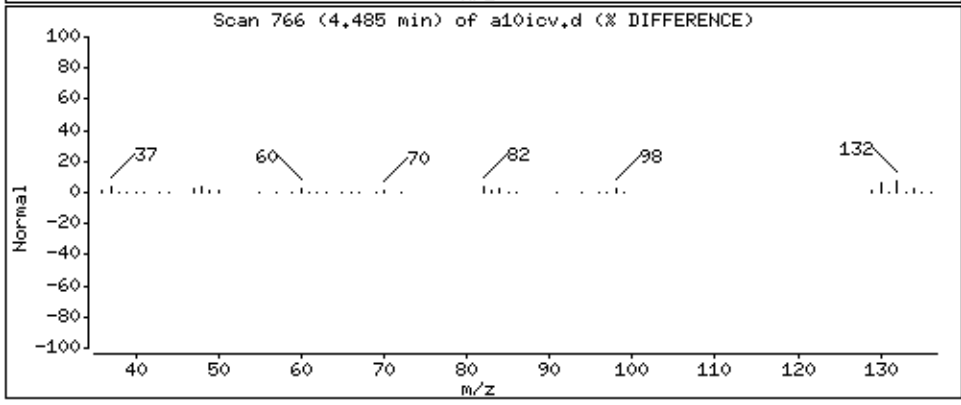
42 Trichloroethene

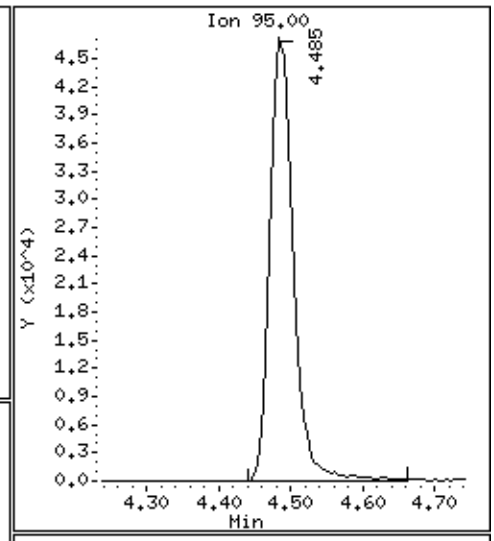
Concentration: 44.5 ppb

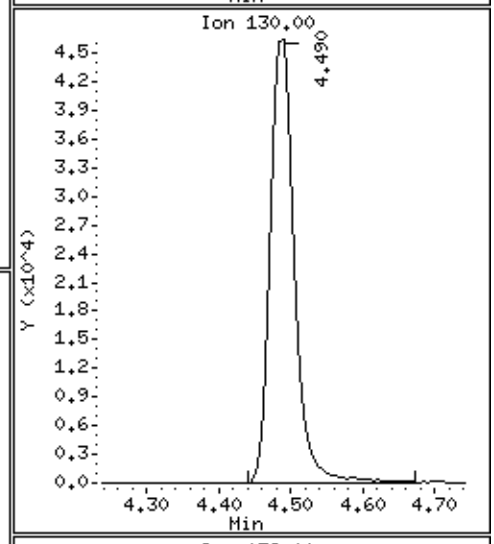


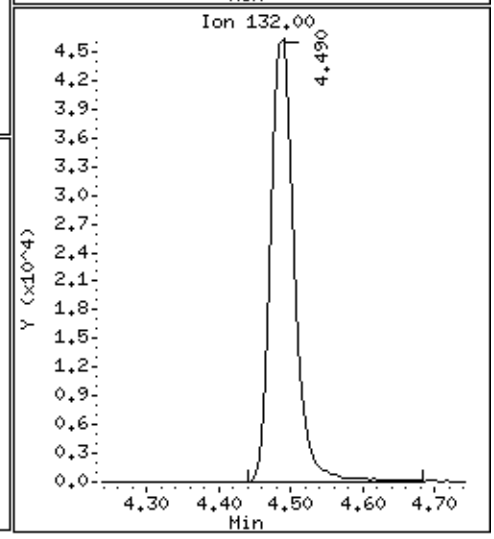












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

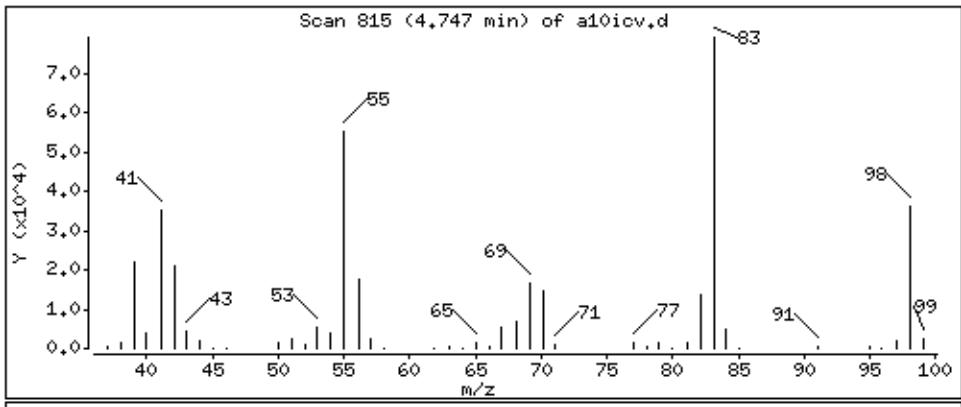
Operator: ala

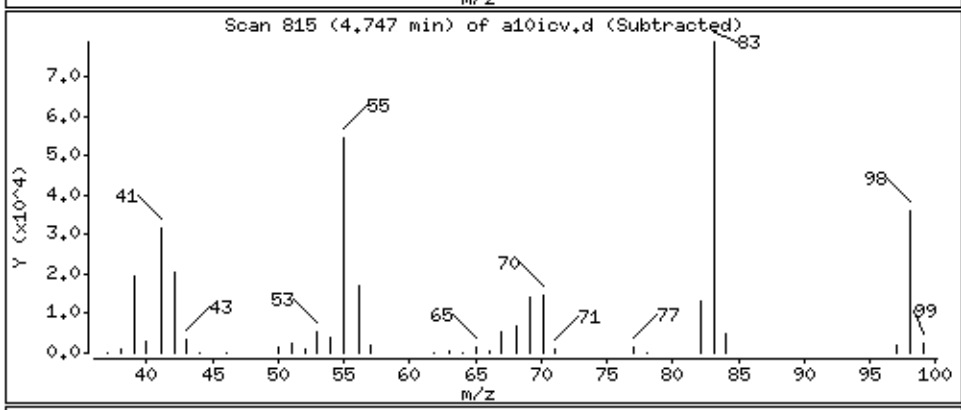
Column phase: DB-624

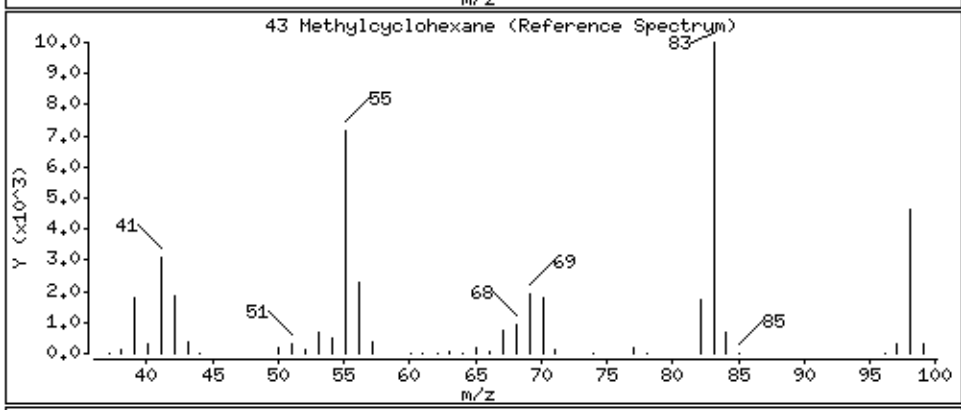
Column diameter: 0.18

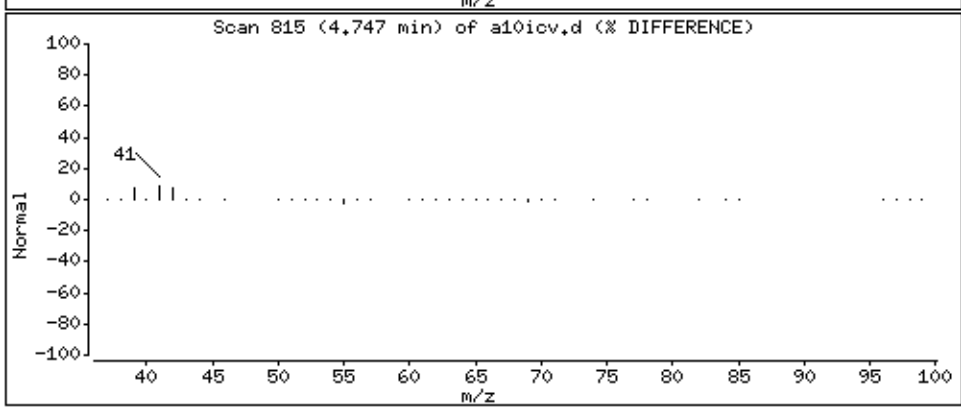
43 Methylcyclohexane

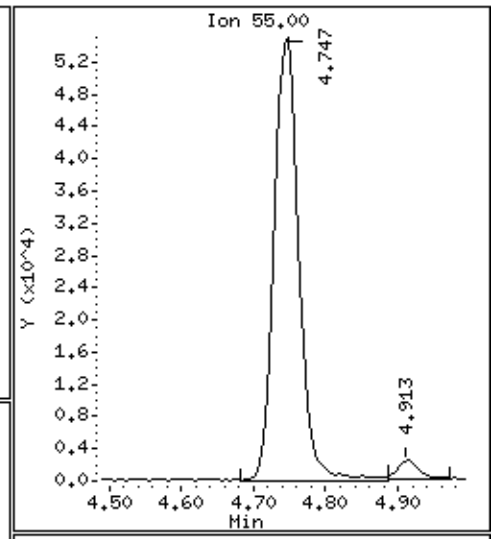
Concentration: 51.1 ppb

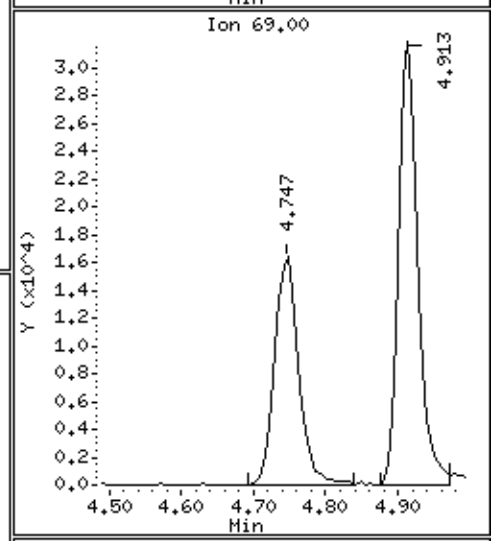


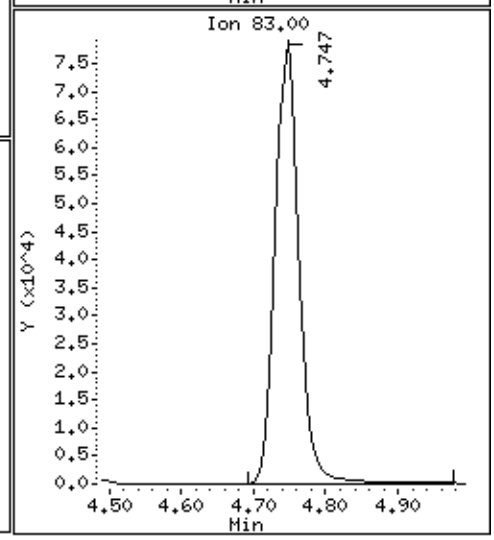












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

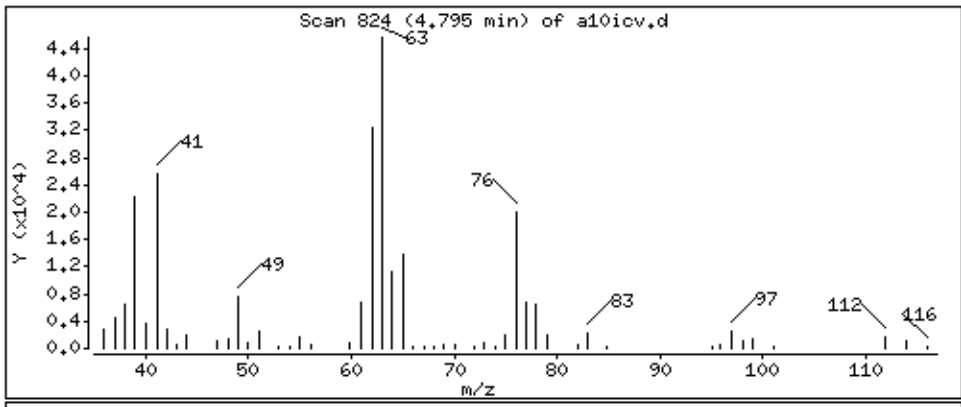
Operator: ala

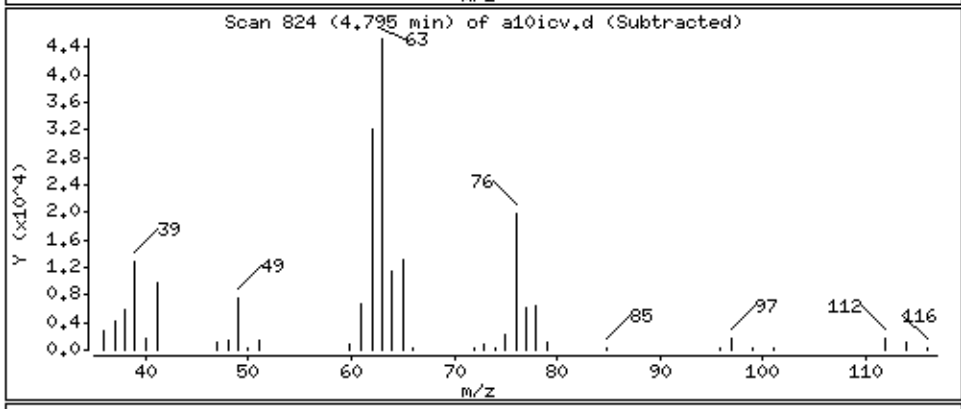
Column phase: DB-624

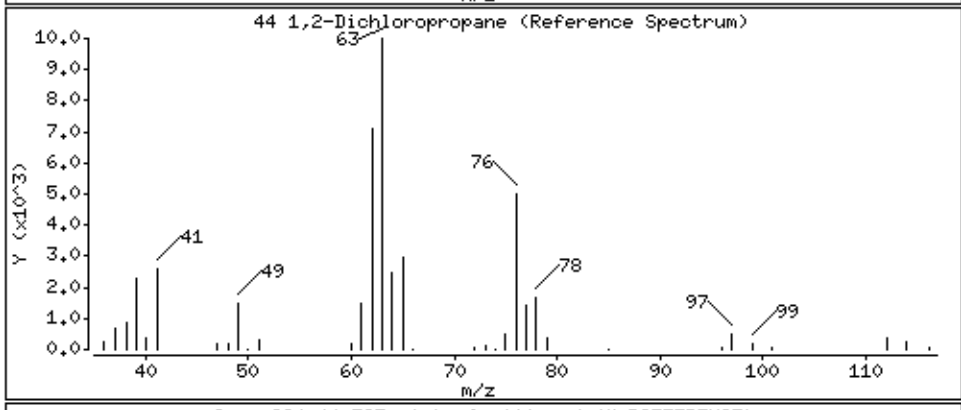
Column diameter: 0.18

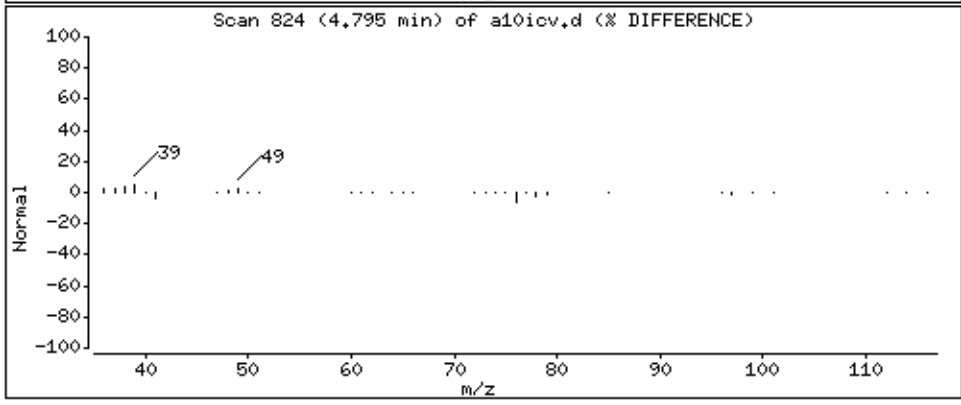
44 1,2-Dichloropropane

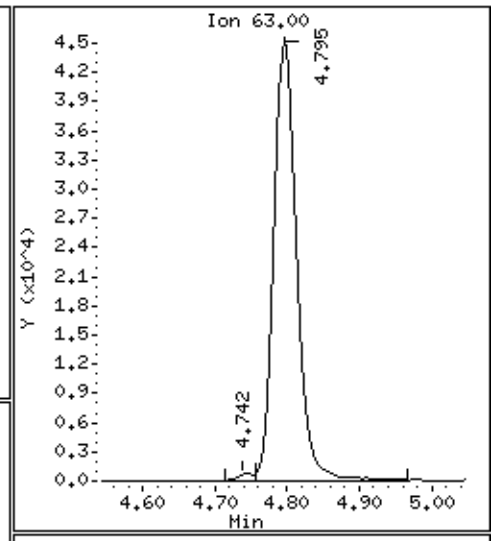
Concentration: 47.5 ppb

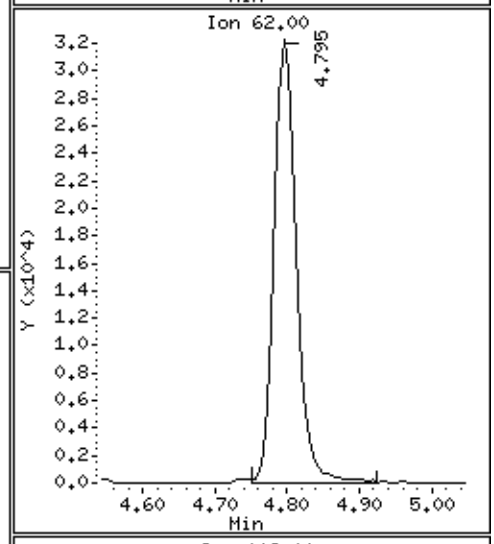


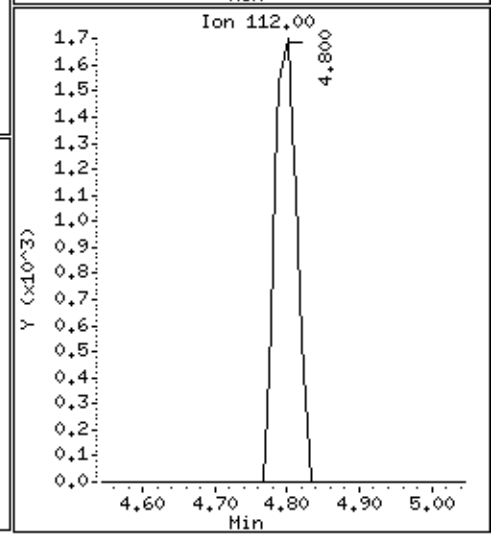












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 51

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

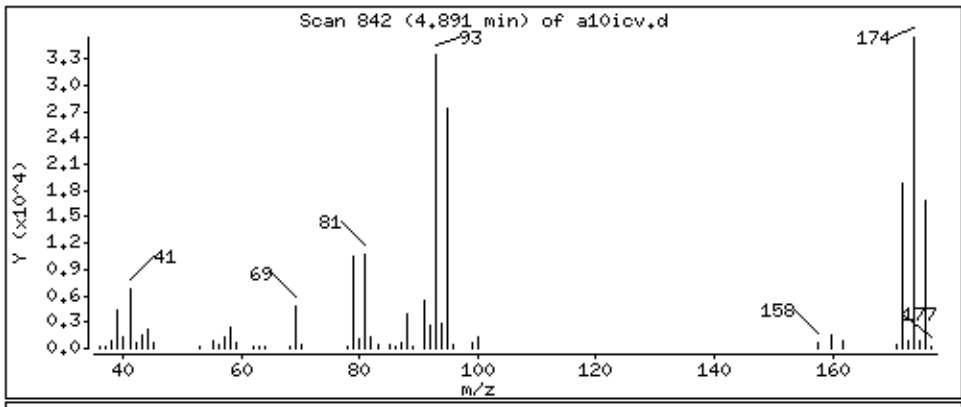
Operator: ala

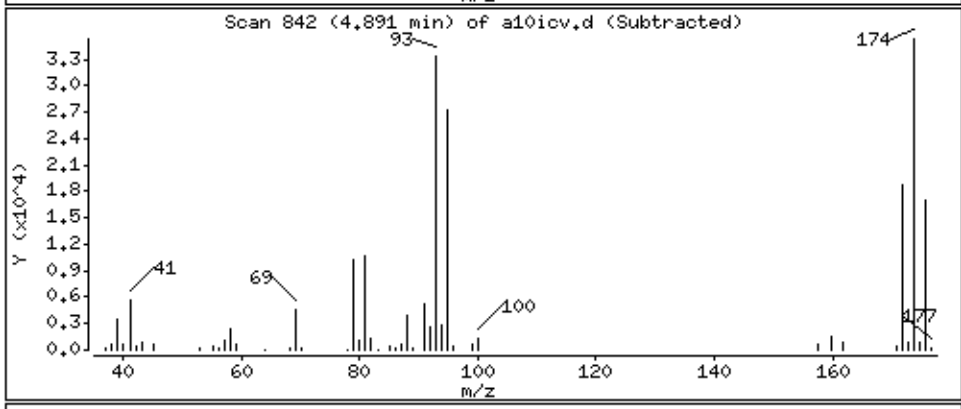
Column phase: DB-624

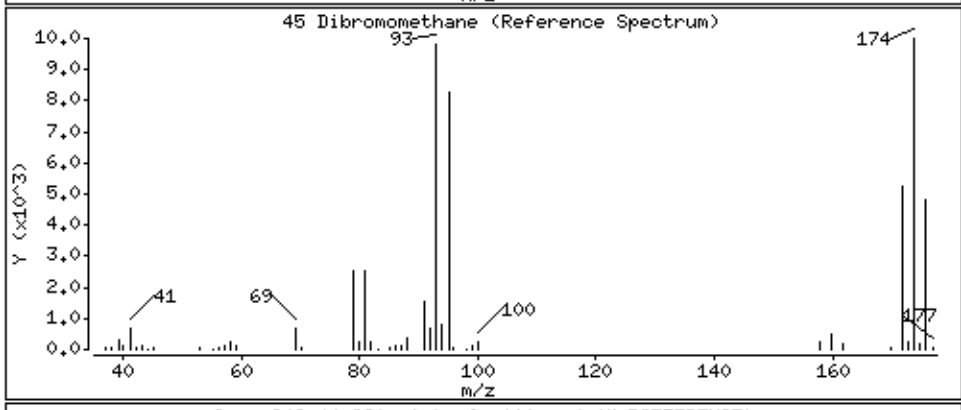
Column diameter: 0.18

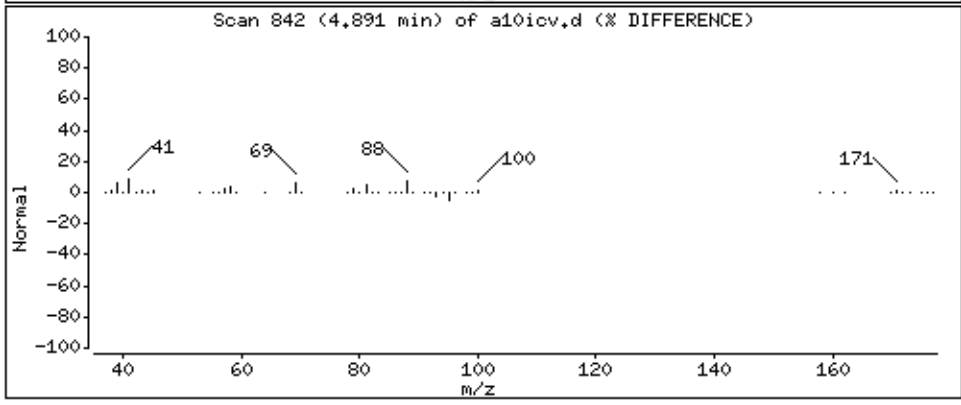
45 Dibromomethane

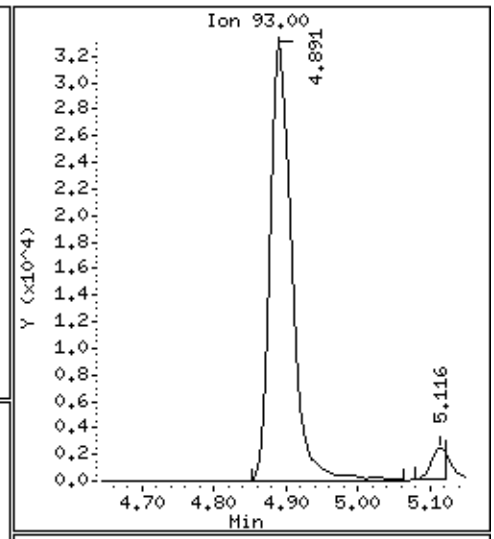
Concentration: 42.9 ppb

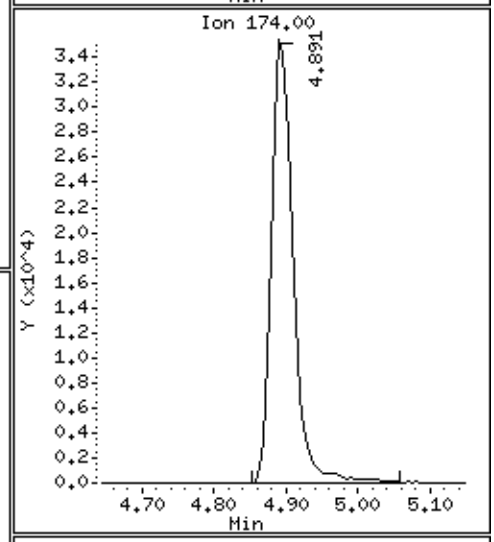


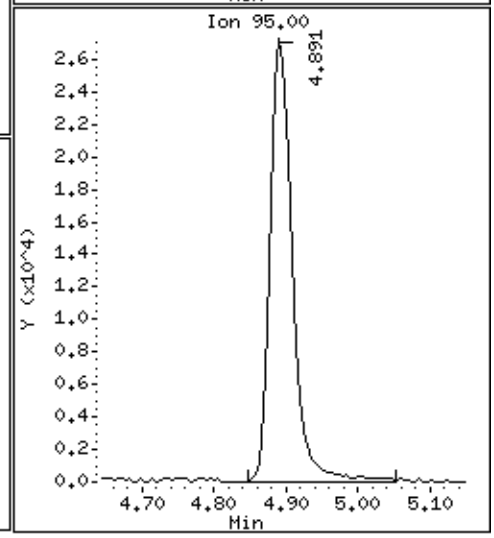












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

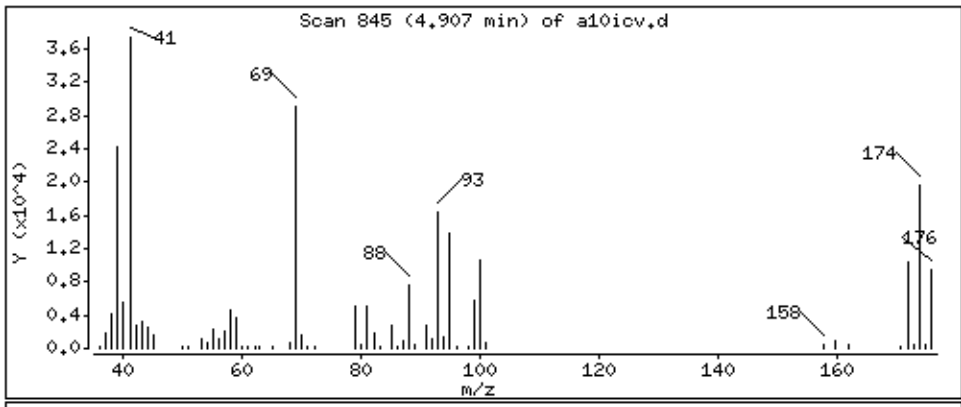
Operator: ala

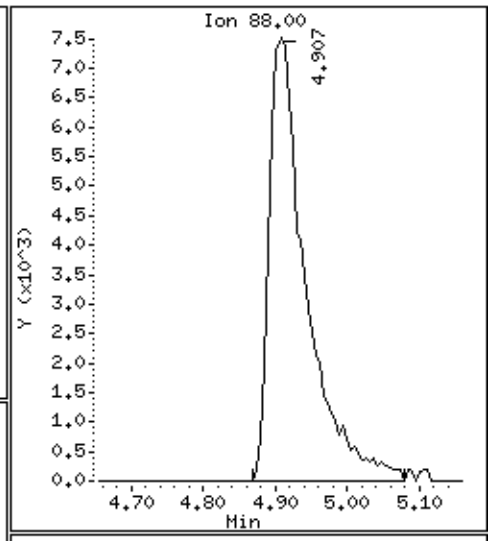
Column phase: DB-624

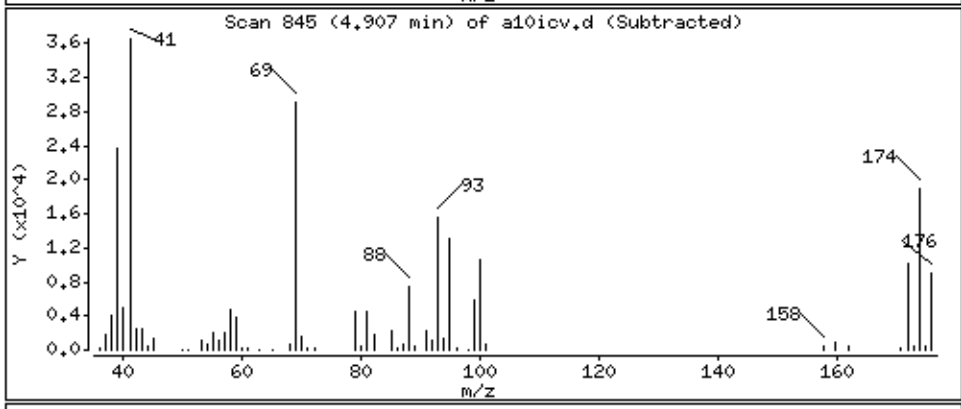
Column diameter: 0.18

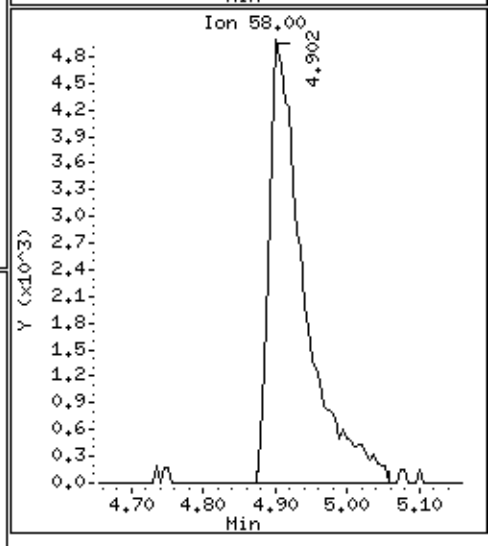
142 1,4-Dioxane

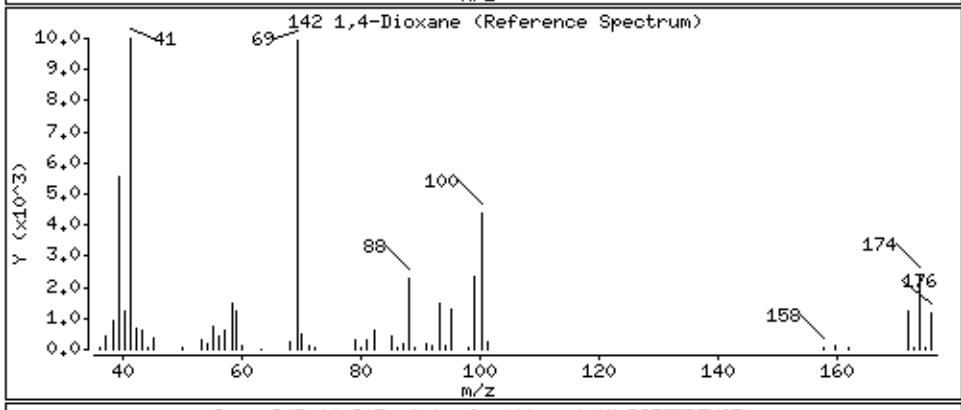
Concentration: 997 ppb

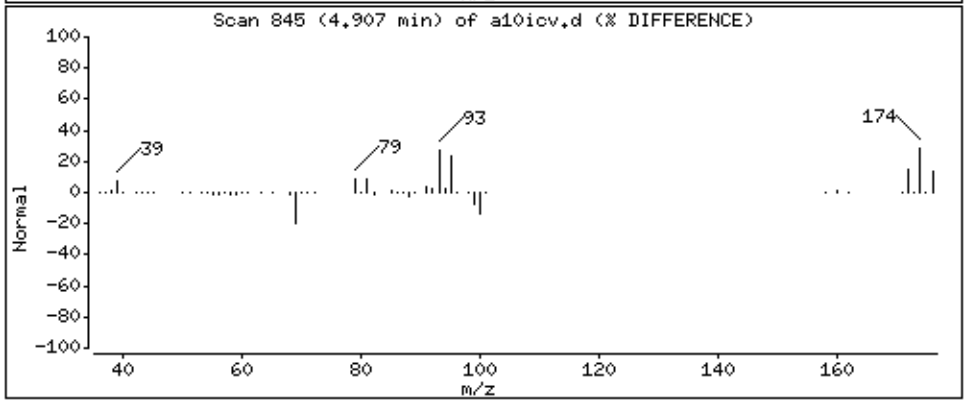












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 53

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

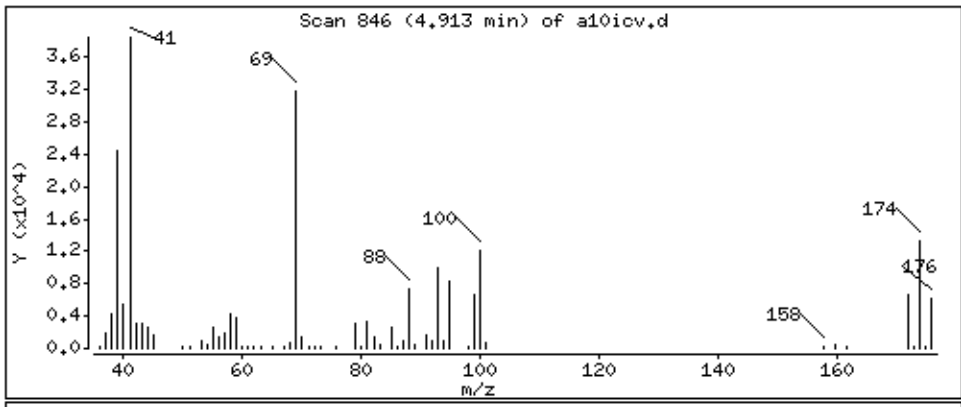
Operator: ala

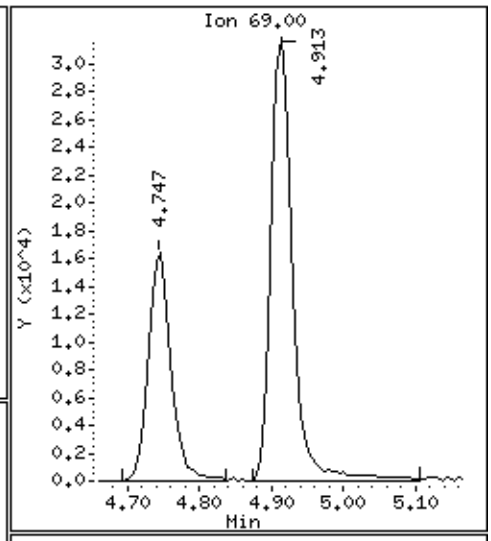
Column phase: DB-624

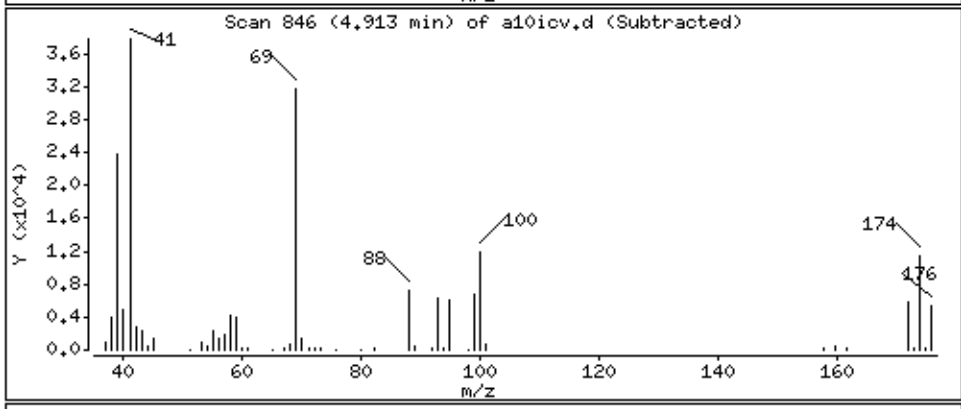
Column diameter: 0.18

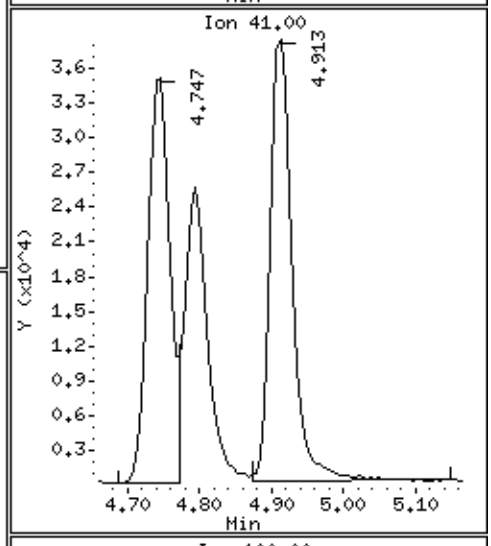
46 Methyl methacrylate

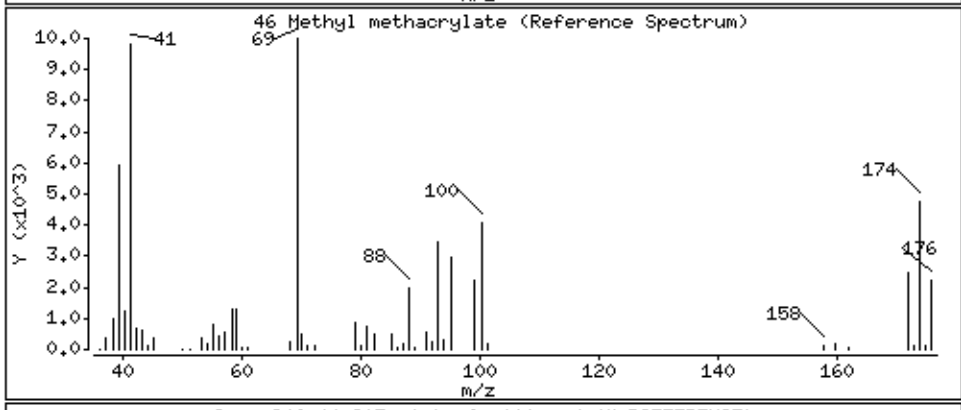
Concentration: 53.5 ppb

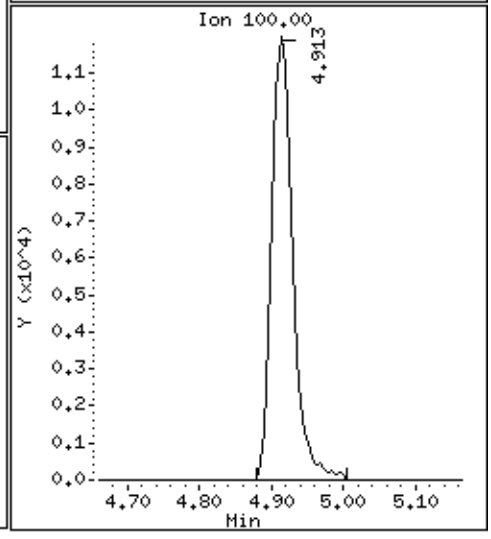


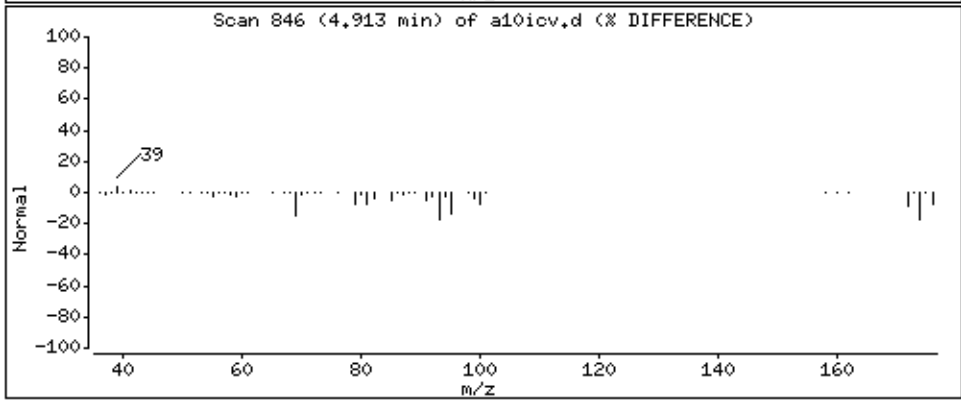












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

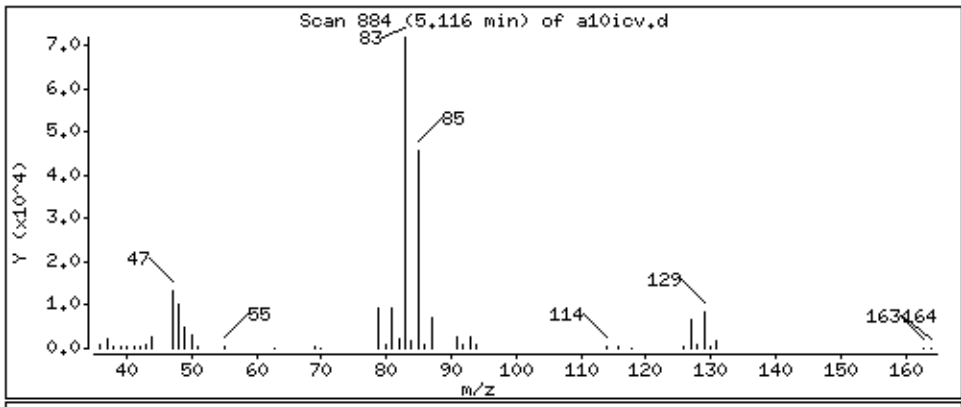
Operator: ala

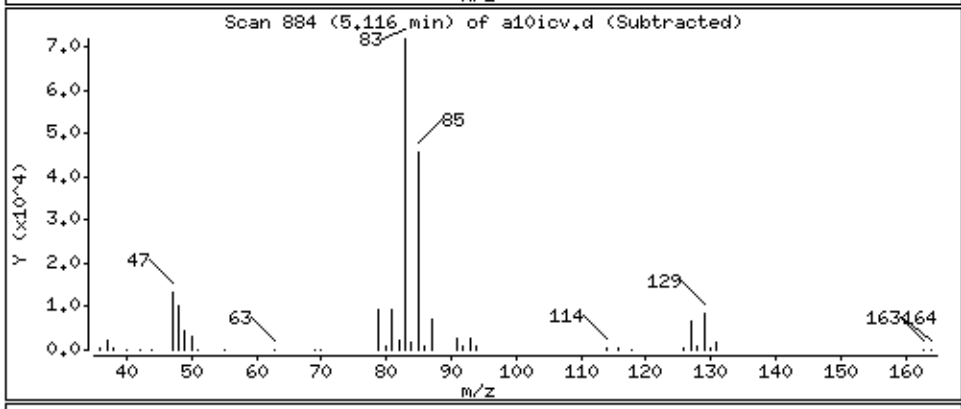
Column phase: DB-624

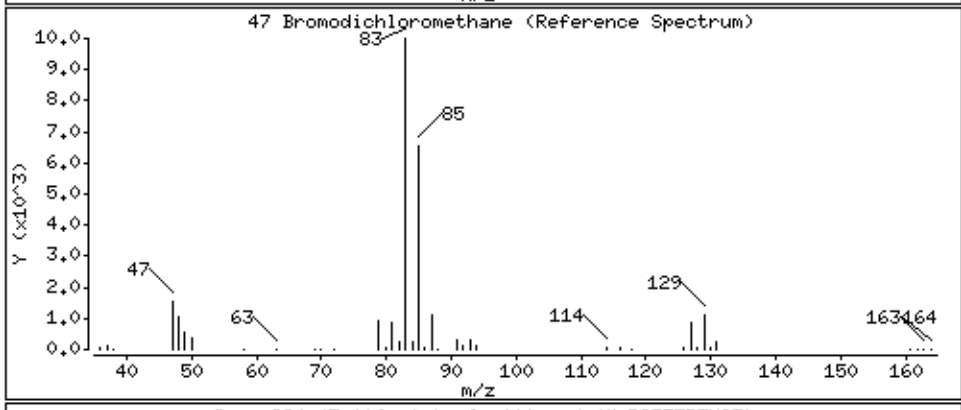
Column diameter: 0.18

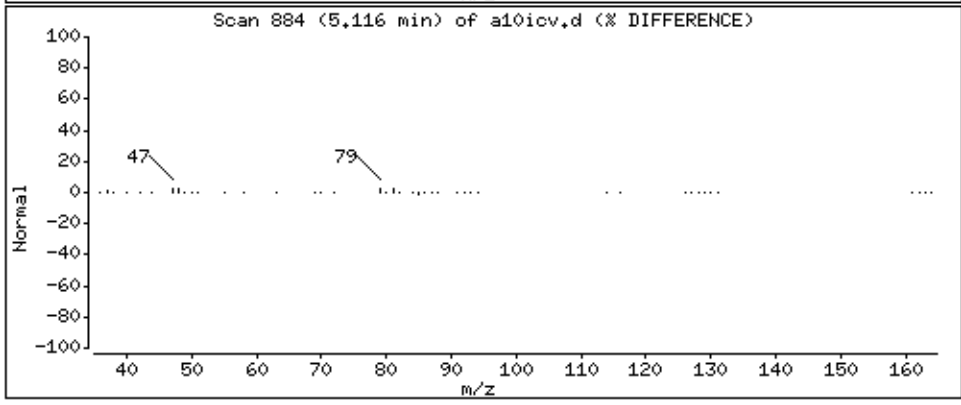
47 Bromodichloromethane

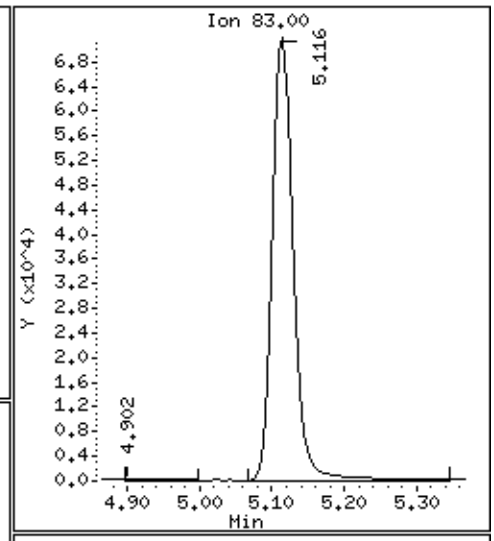
Concentration: 45.0 ppb

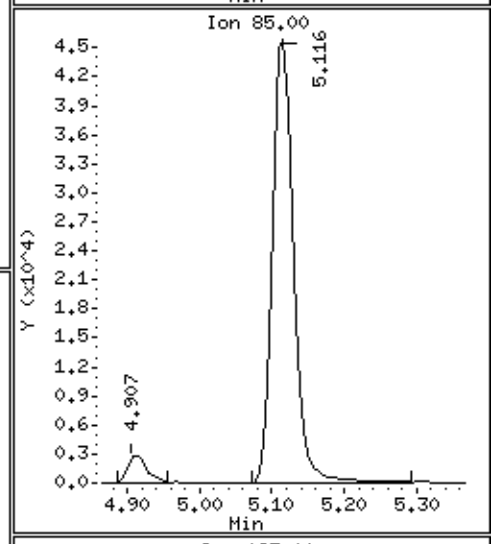


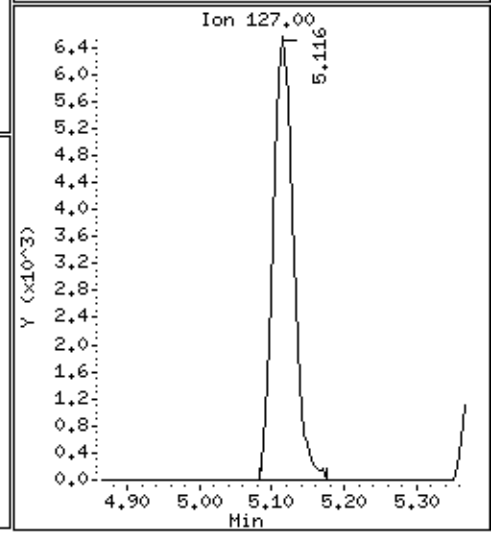












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

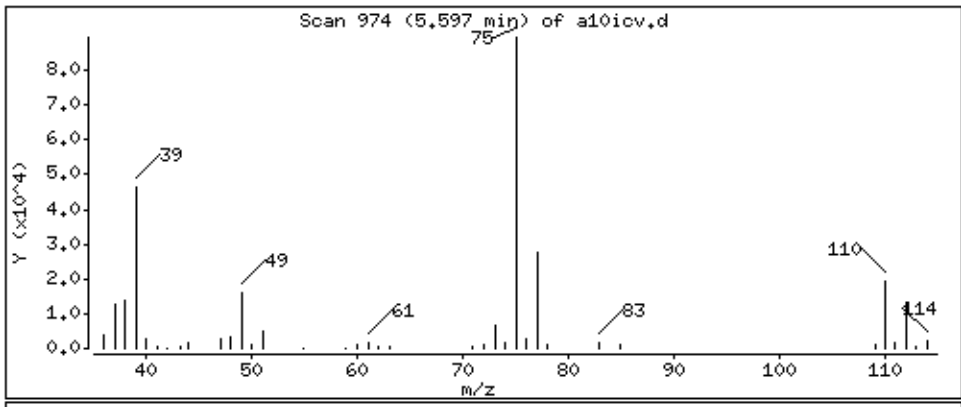
Operator: ala

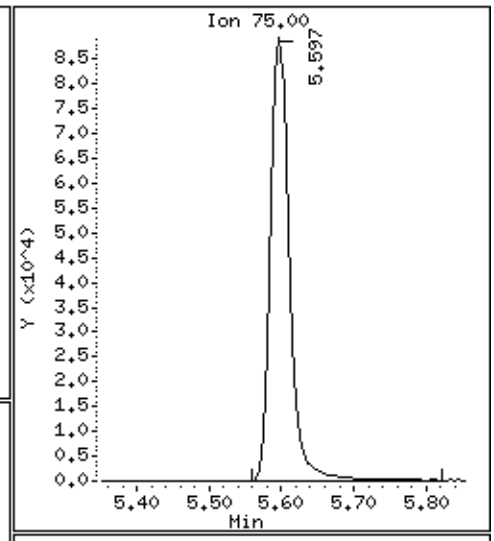
Column phase: DB-624

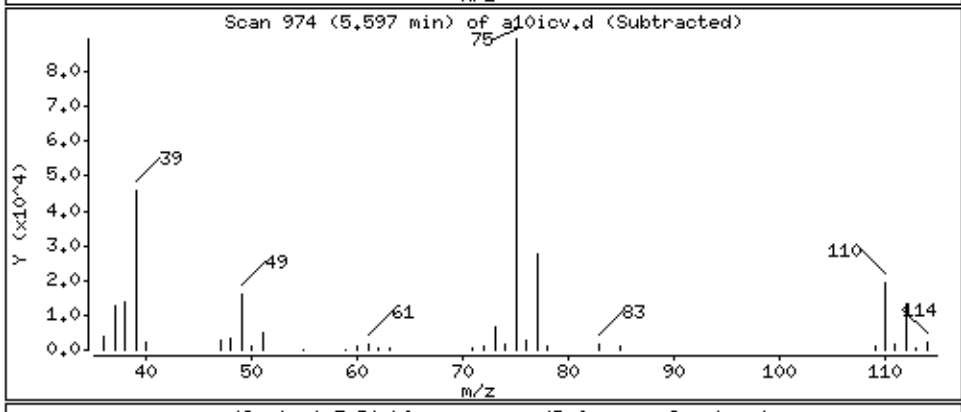
Column diameter: 0.18

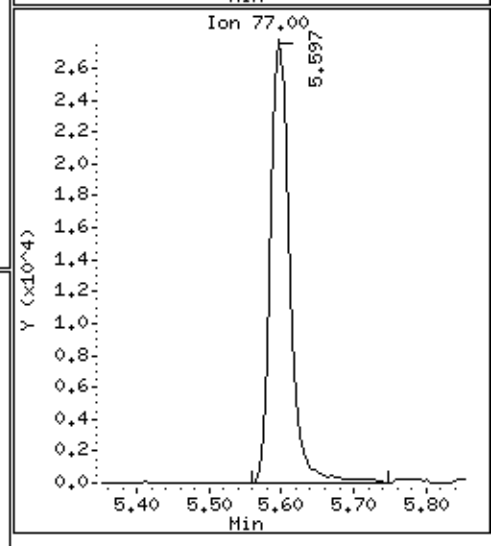
49 cis-1,3-Dichloropropene

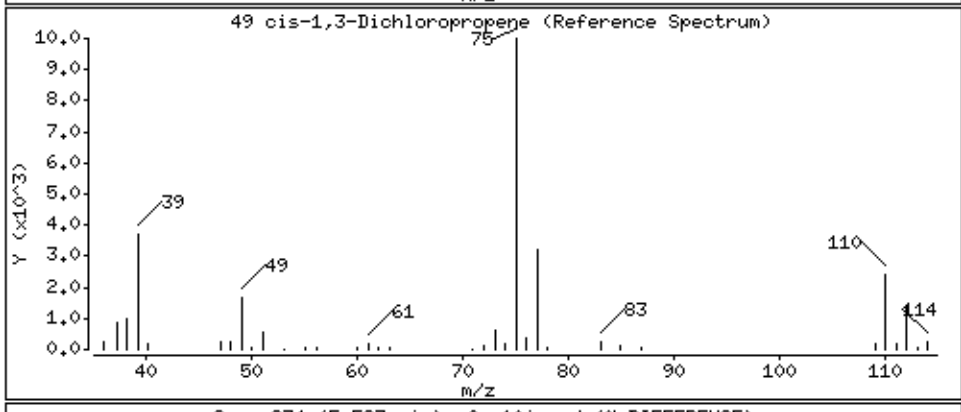
Concentration: 54.2 ppb

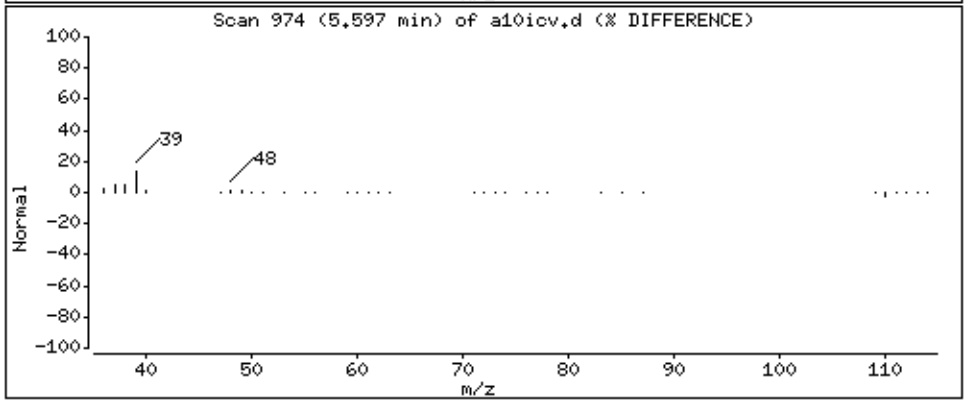












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

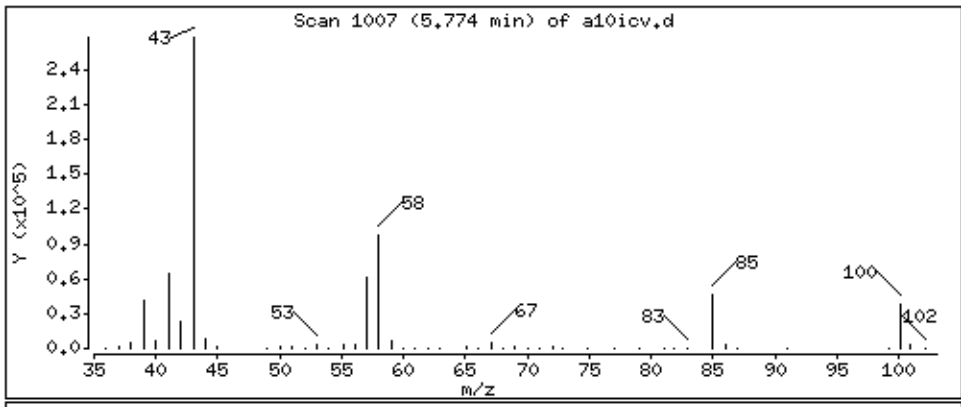
Operator: ala

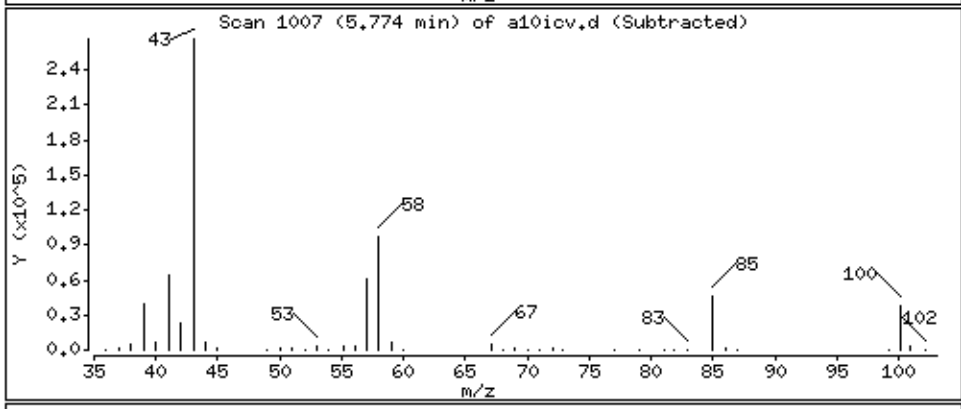
Column phase: DB-624

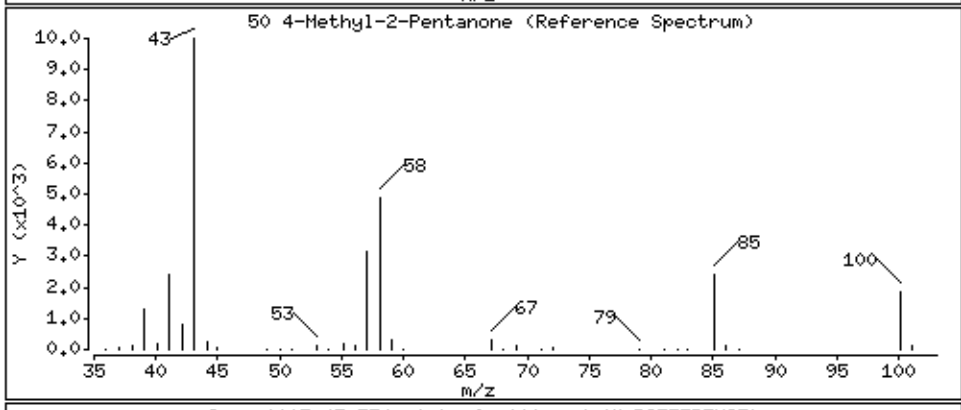
Column diameter: 0.18

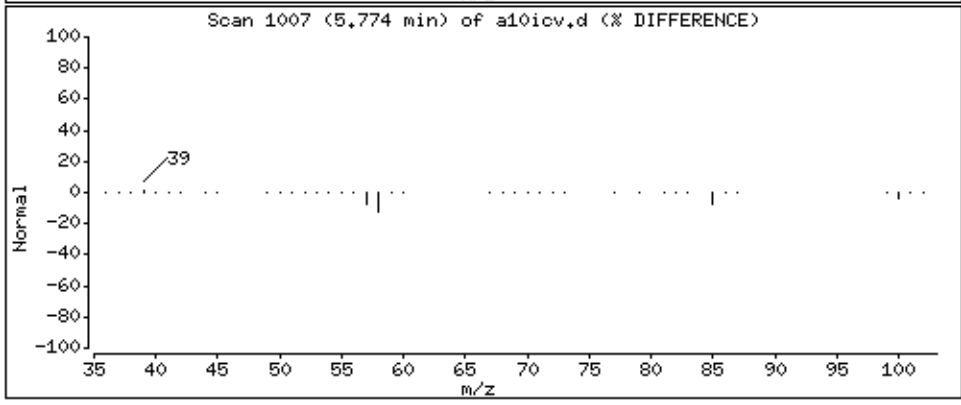
50 4-Methyl-2-Pentanone

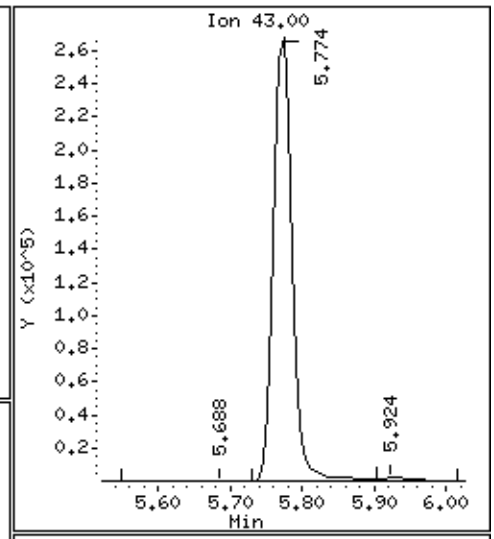
Concentration: 266 ppb

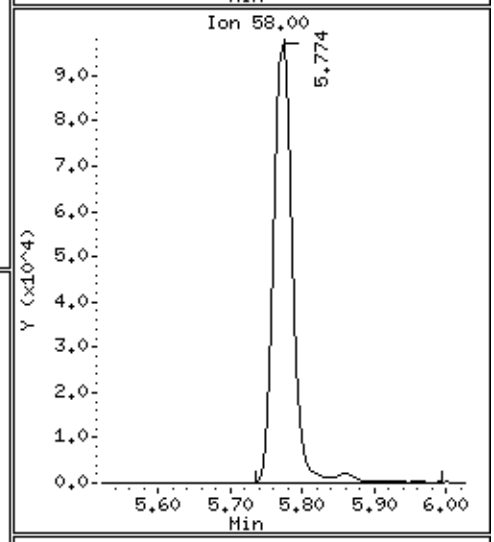


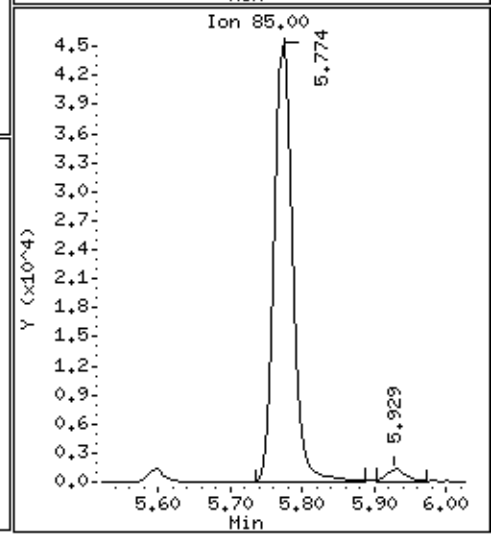












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

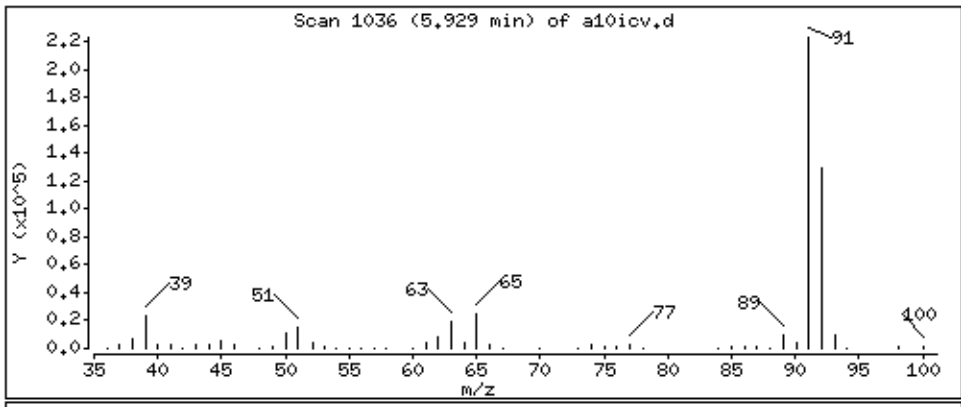
Operator: ala

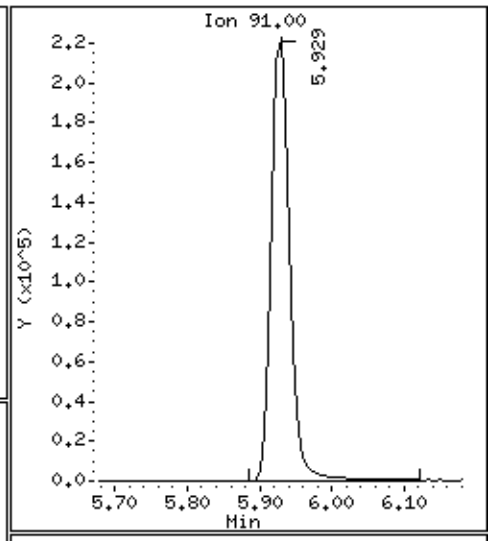
Column phase: DB-624

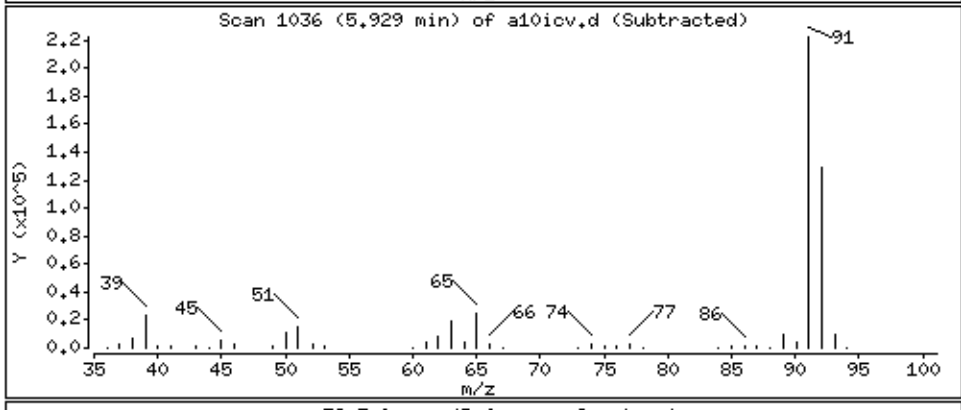
Column diameter: 0.18

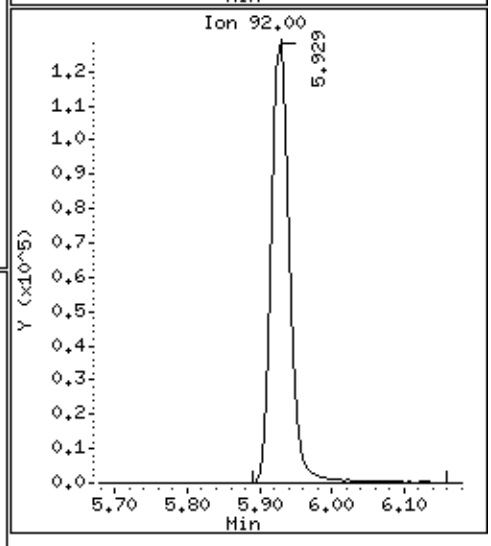
52 Toluene

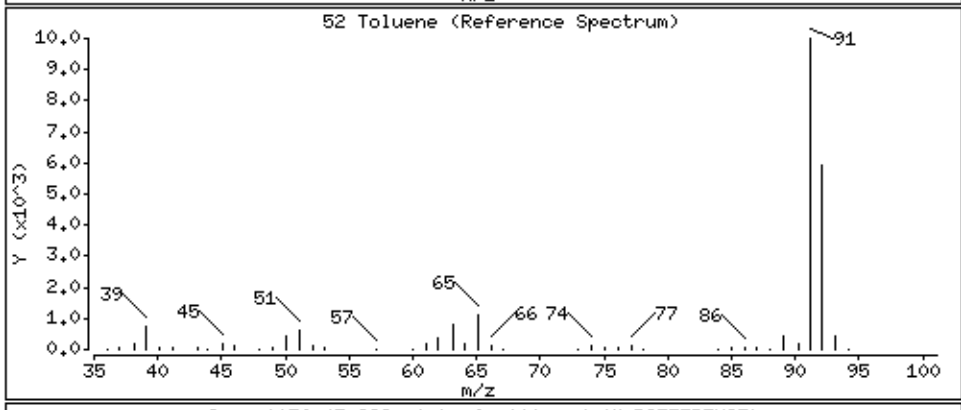
Concentration: 47.2 ppb

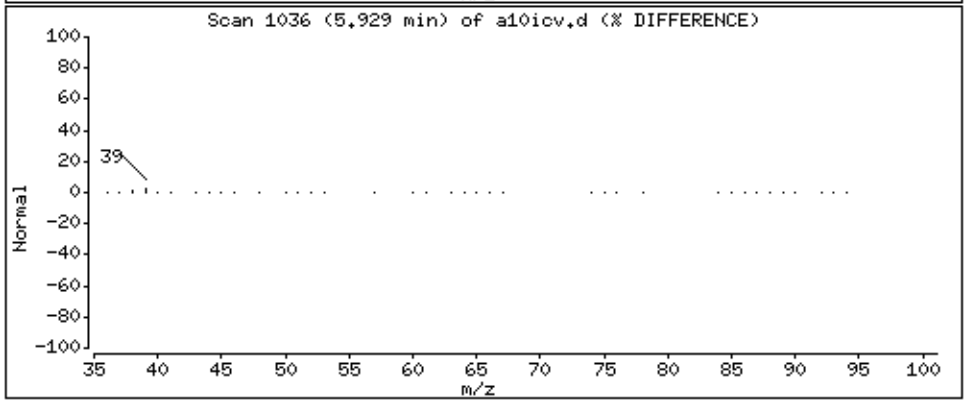












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

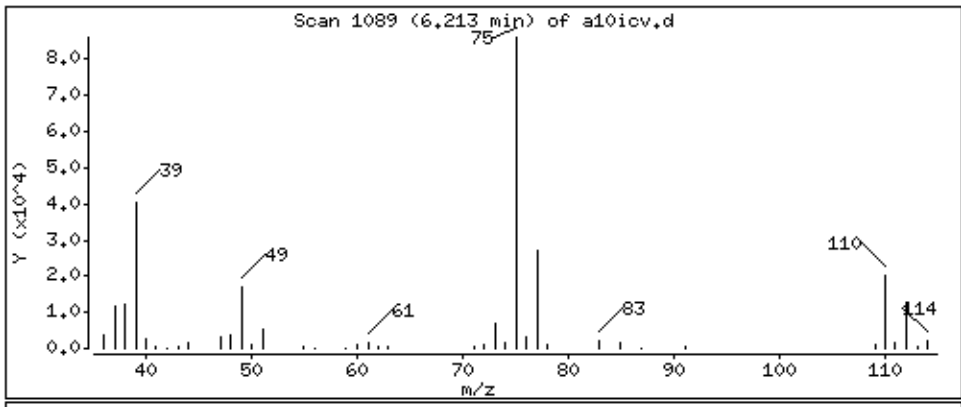
Operator: ala

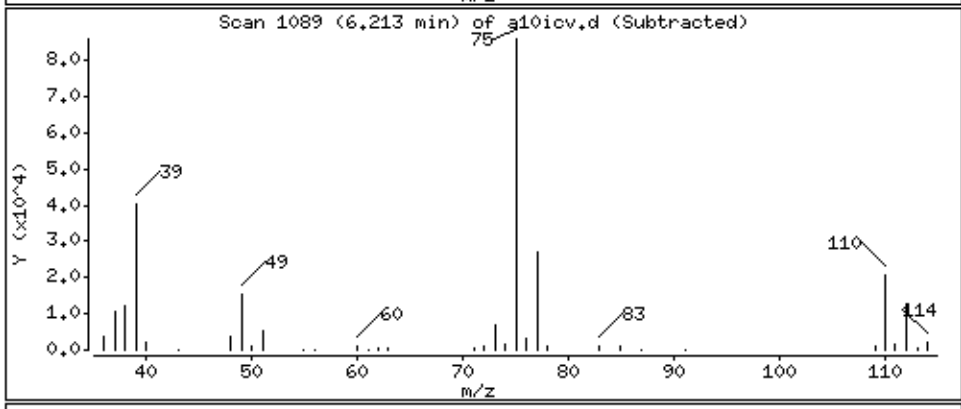
Column phase: DB-624

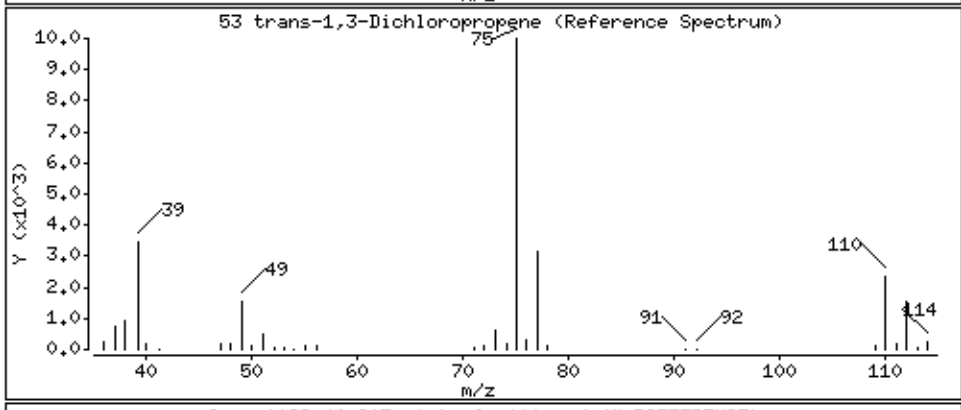
Column diameter: 0.18

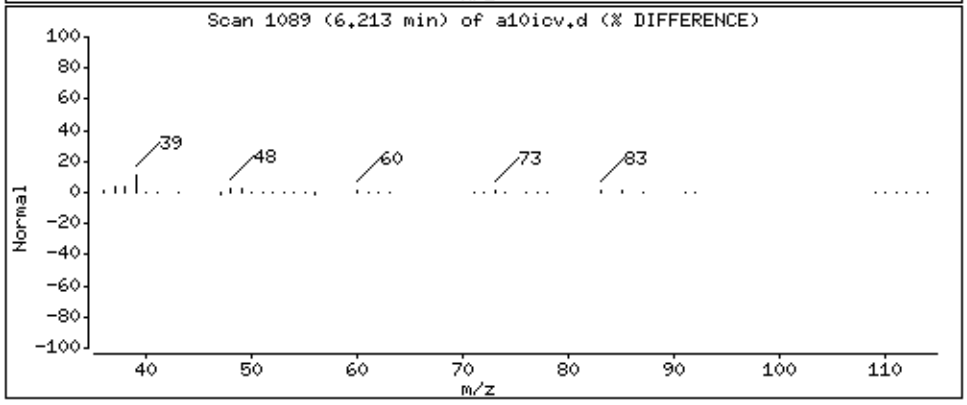
53 trans-1,3-Dichloropropene

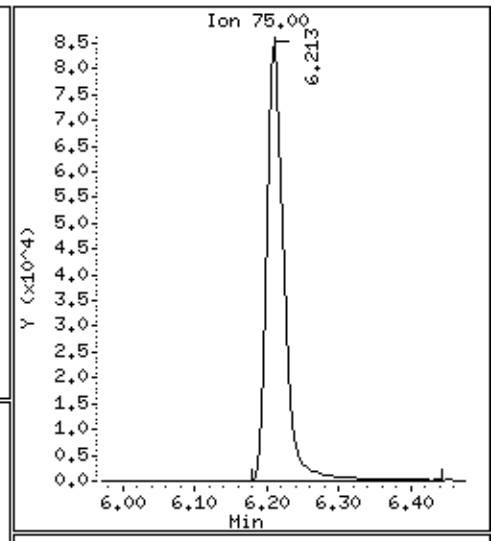
Concentration: 51.8 ppb

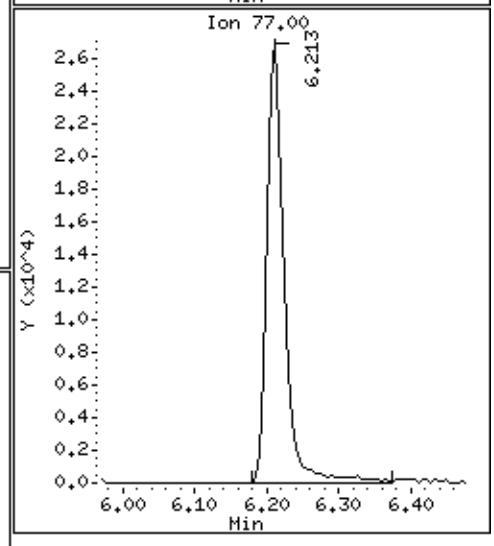












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

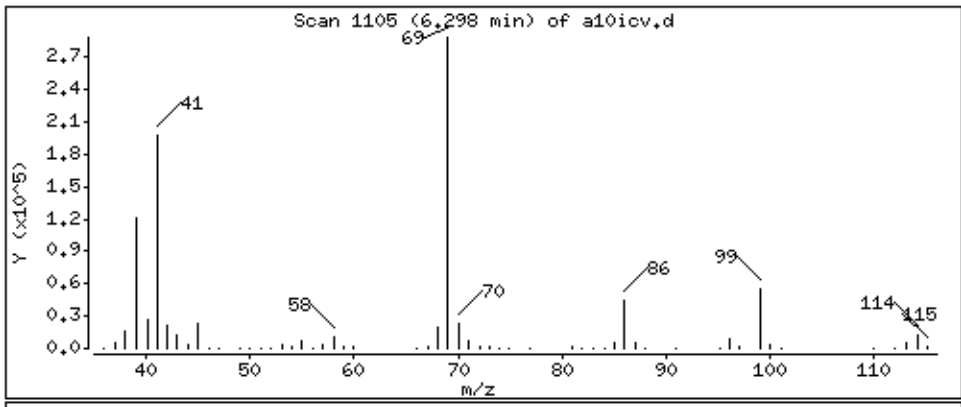
Operator: ala

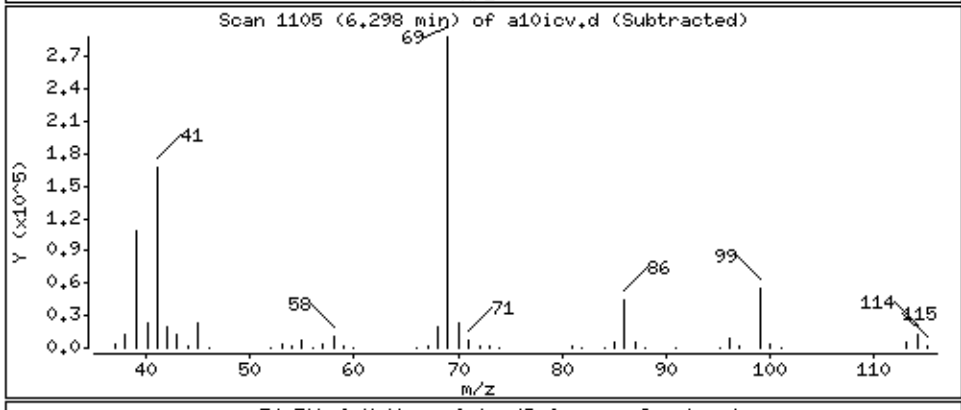
Column phase: DB-624

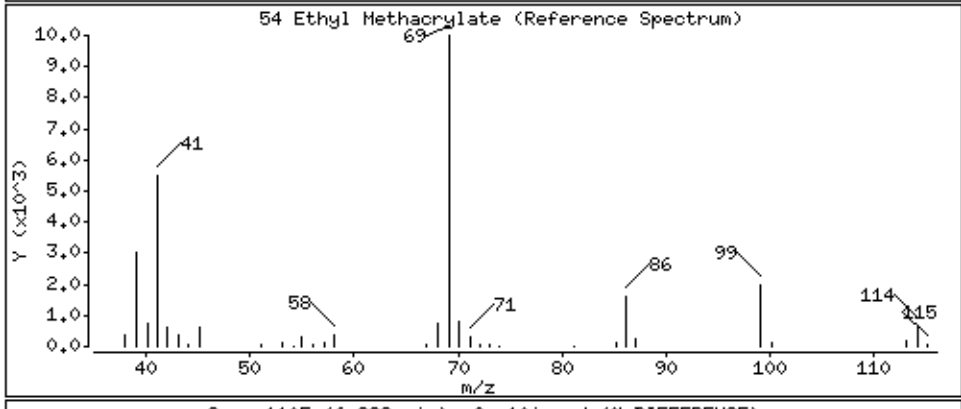
Column diameter: 0.18

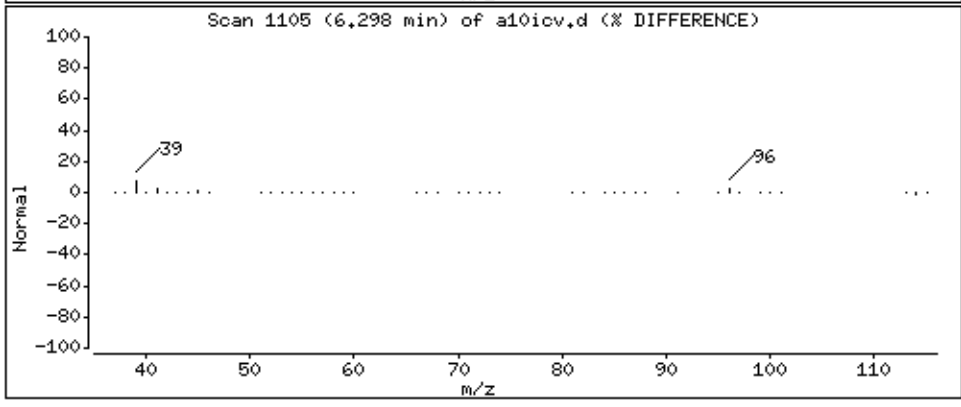
54 Ethyl Methacrylate

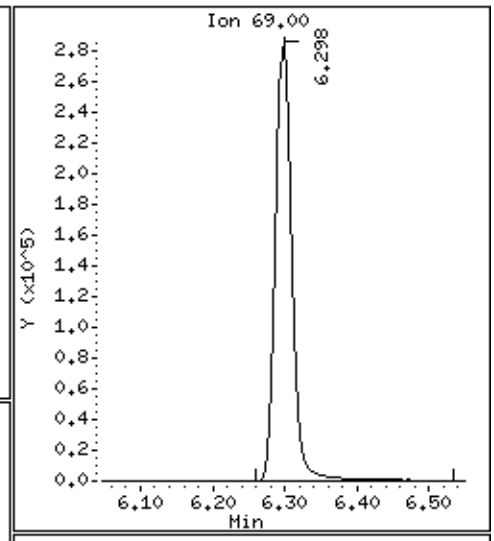
Concentration: 205 ppb

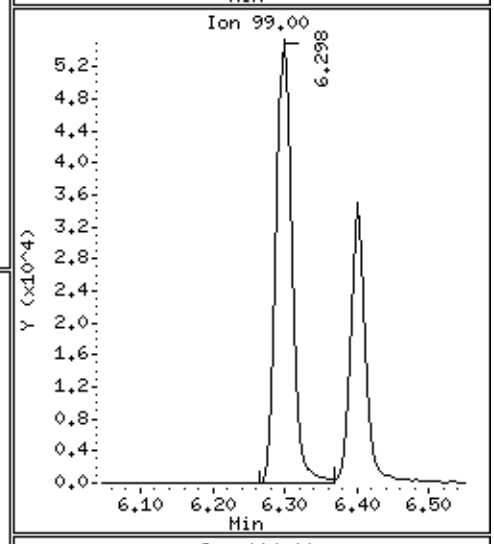


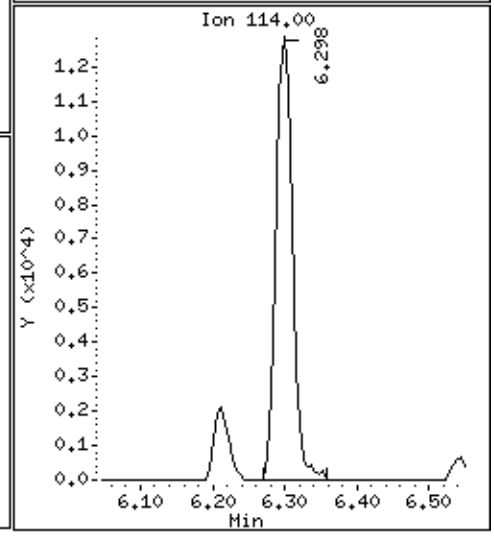












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

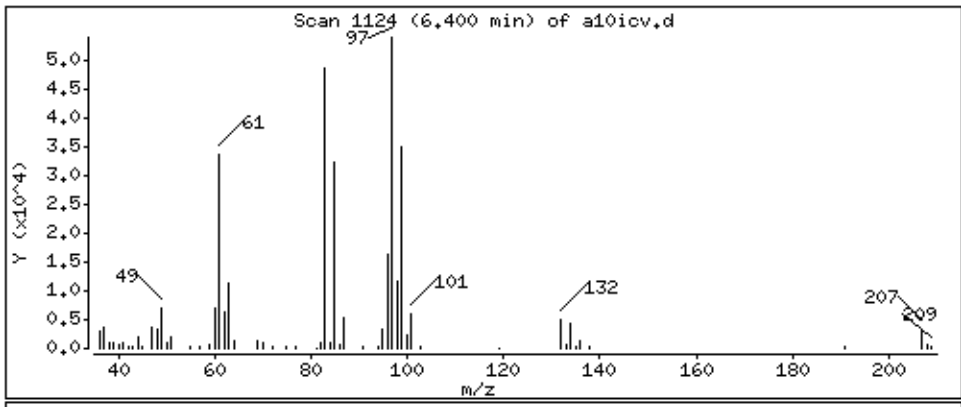
Operator: ala

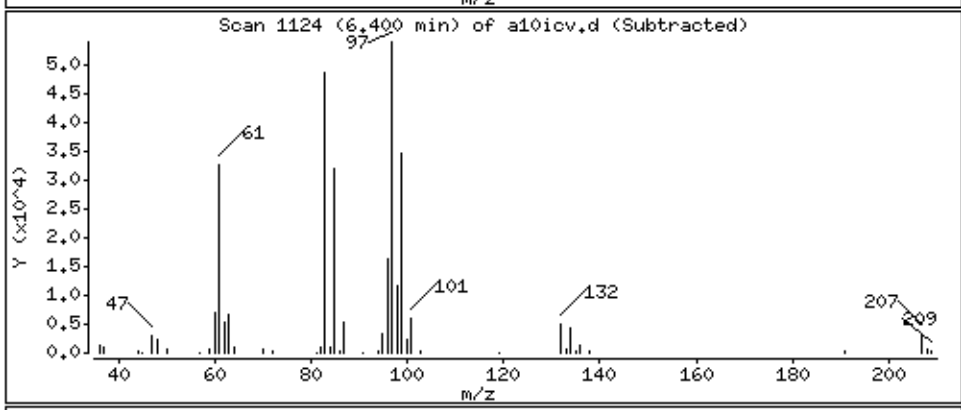
Column phase: DB-624

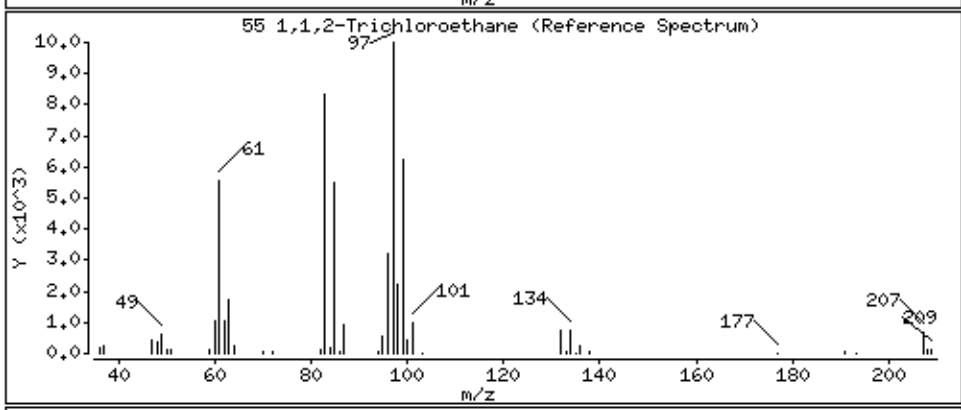
Column diameter: 0.18

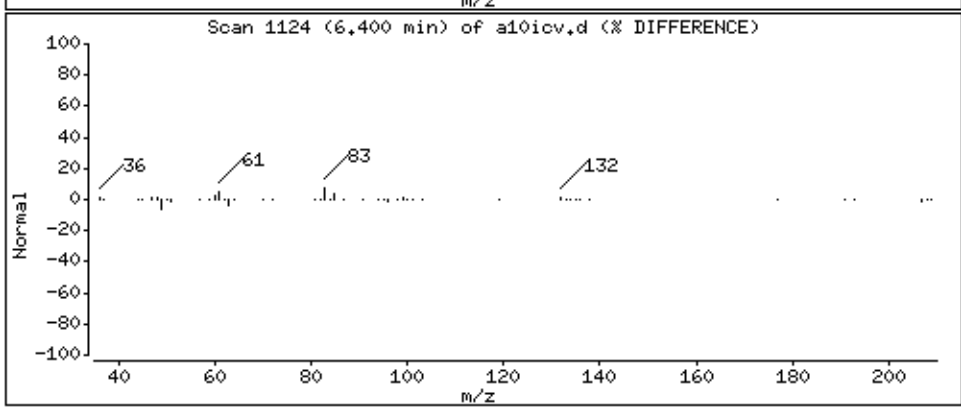
55 1,1,2-Trichloroethane

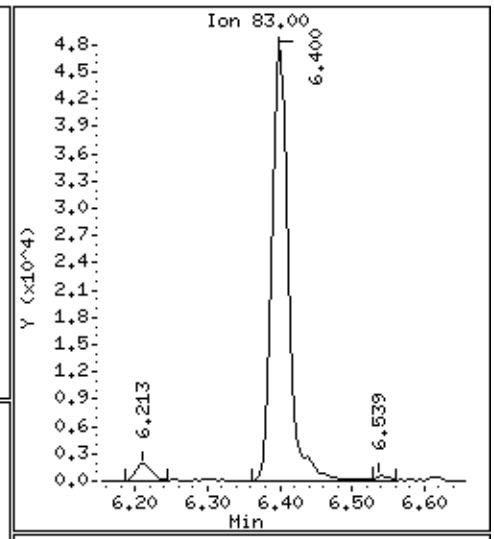
Concentration: 51.0 ppb

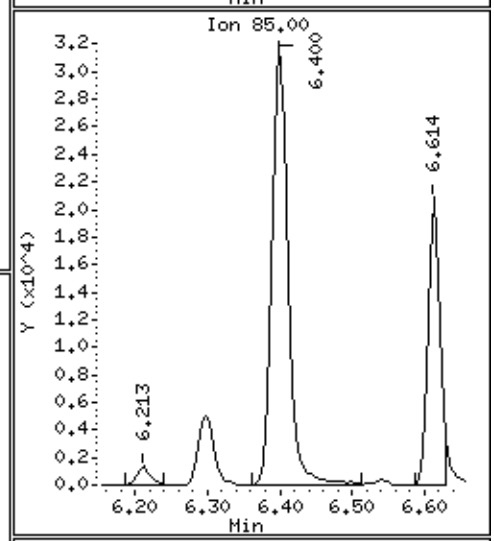


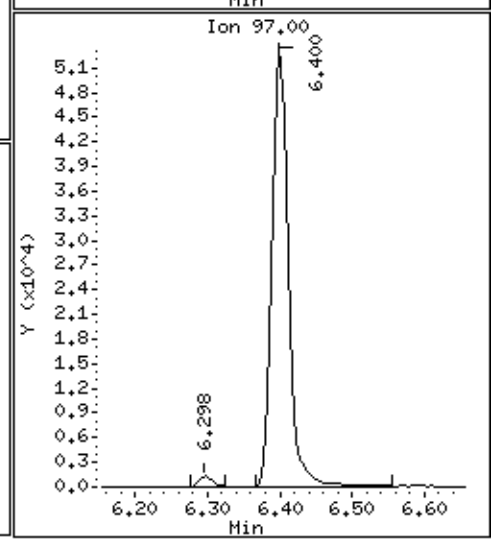












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

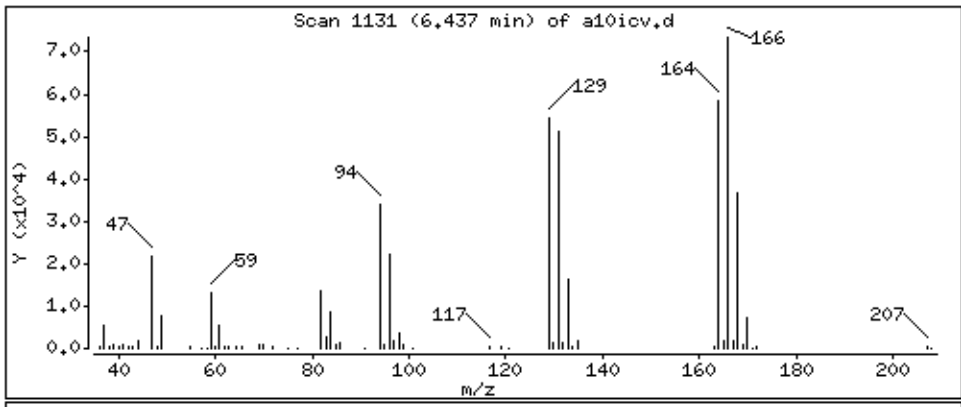
Operator: ala

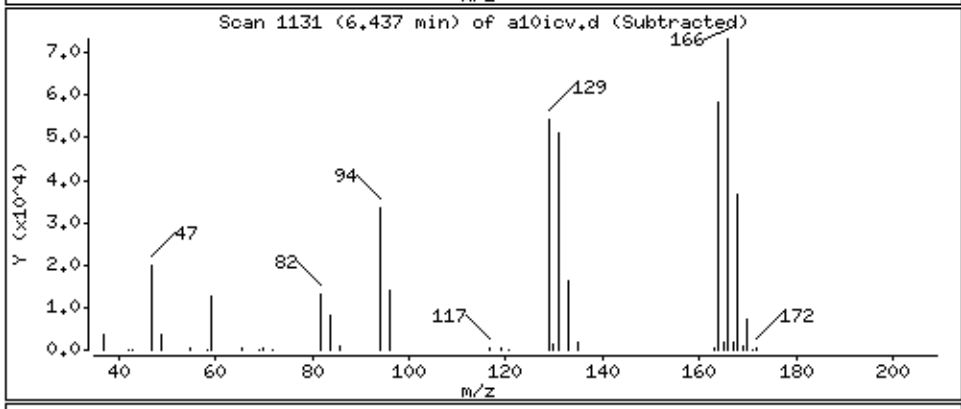
Column phase: DB-624

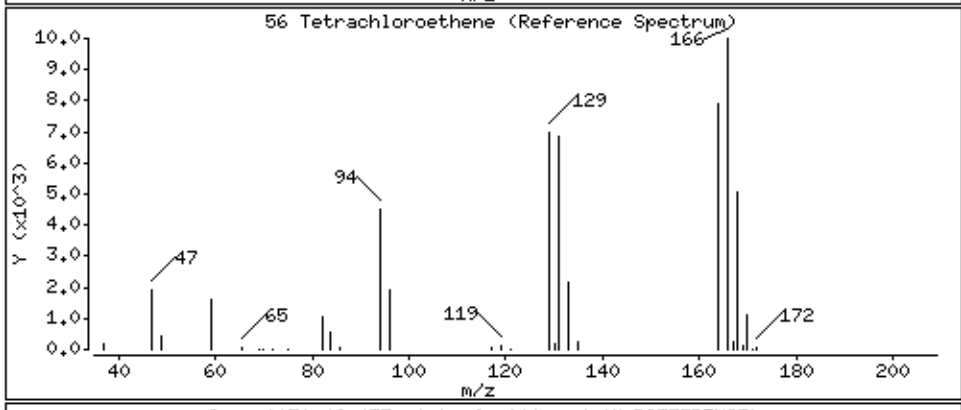
Column diameter: 0.18

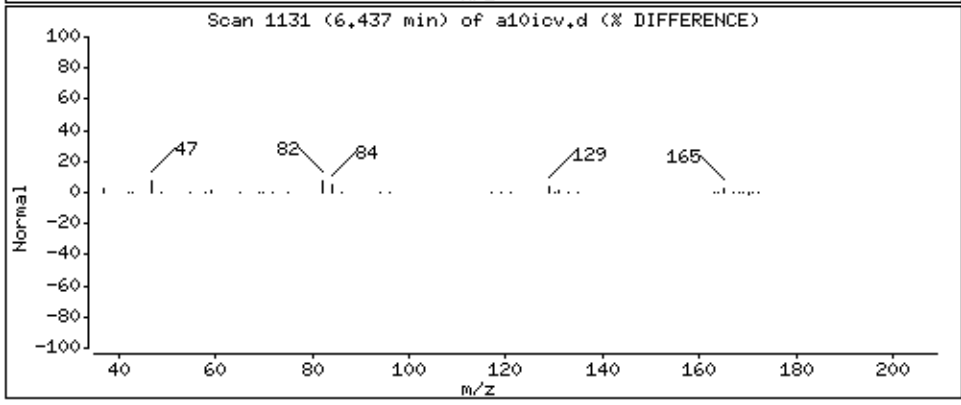
56 Tetrachloroethene

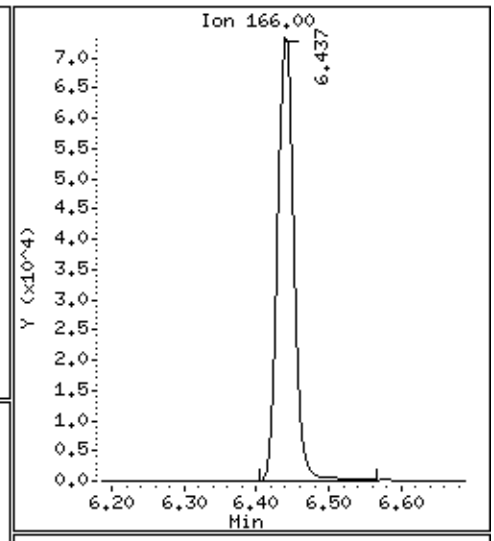
Concentration: 49.5 ppb

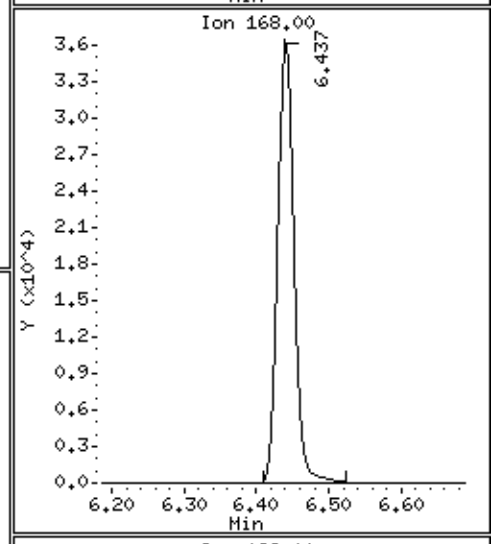


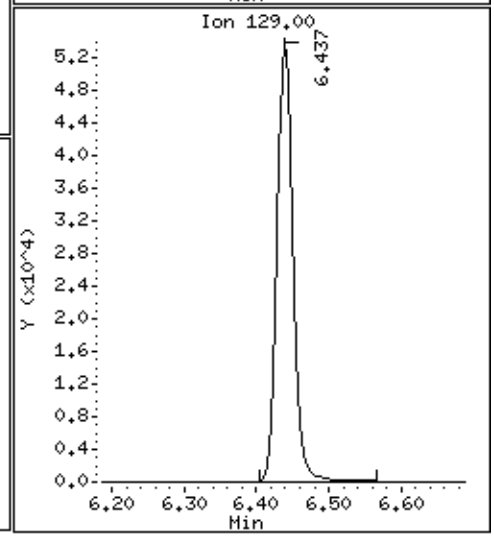












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

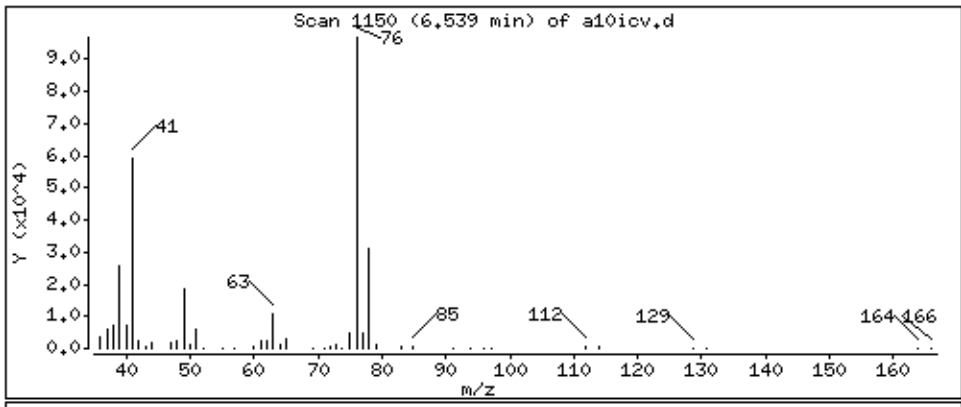
Operator: ala

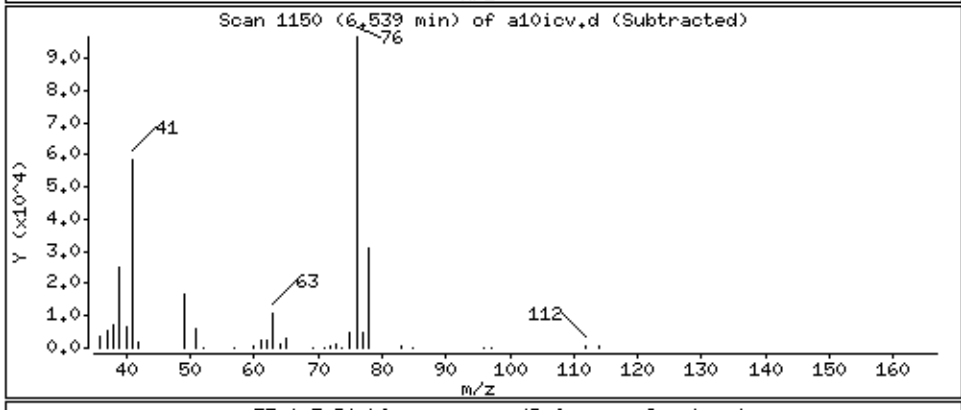
Column phase: DB-624

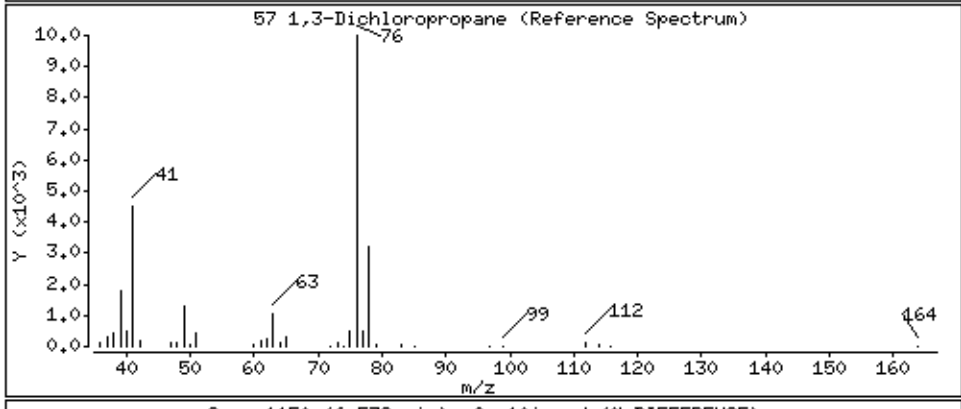
Column diameter: 0.18

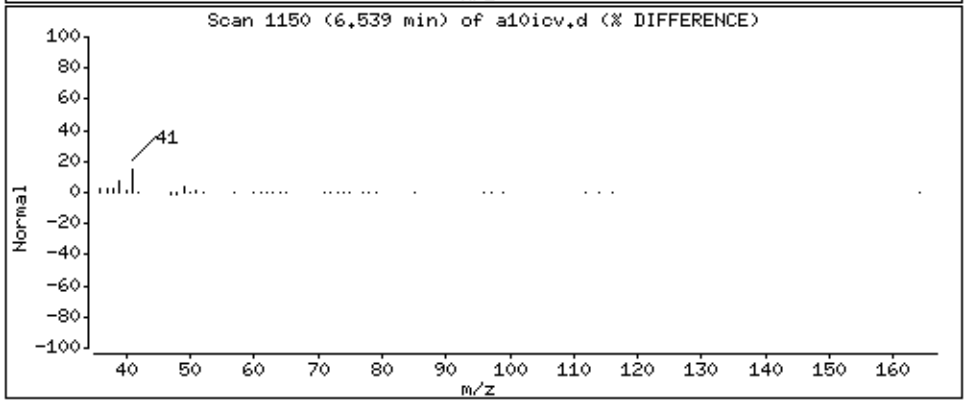
57 1,3-Dichloropropane

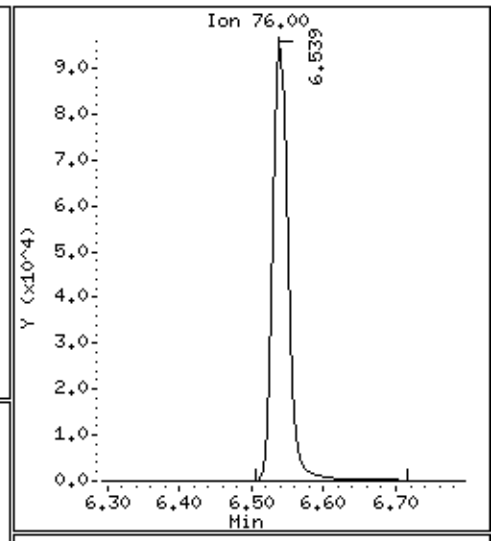
Concentration: 53.4 ppb

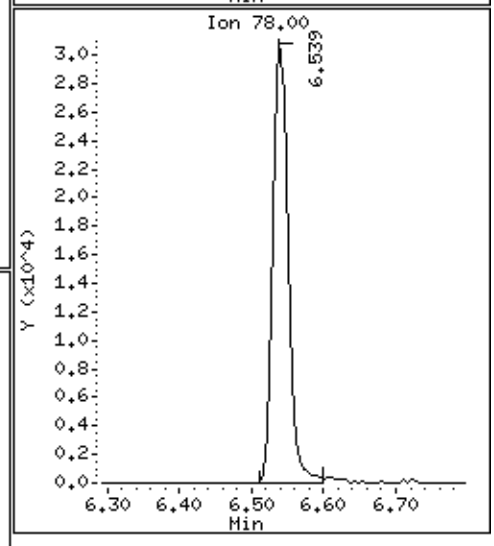












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 63

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

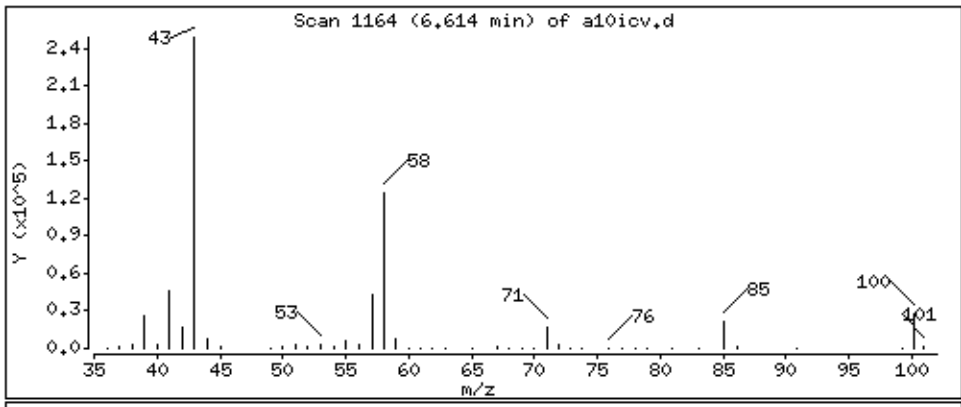
Operator: ala

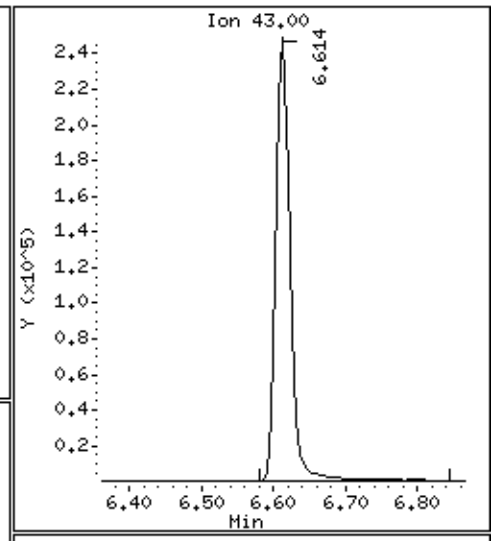
Column phase: DB-624

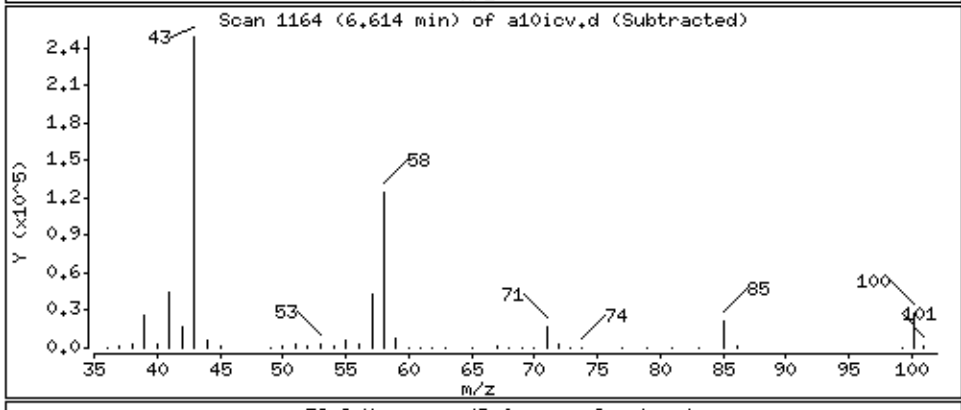
Column diameter: 0.18

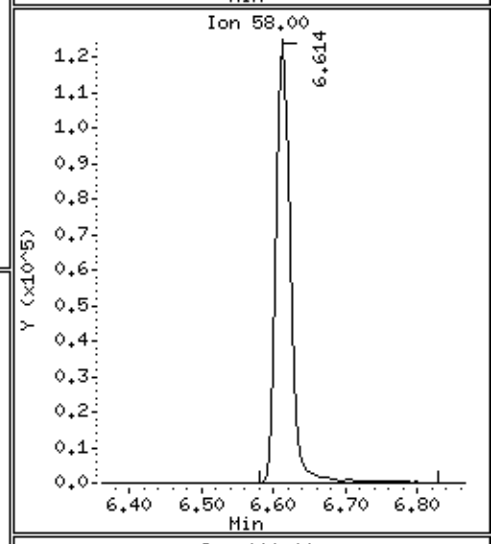
58 2-Hexanone

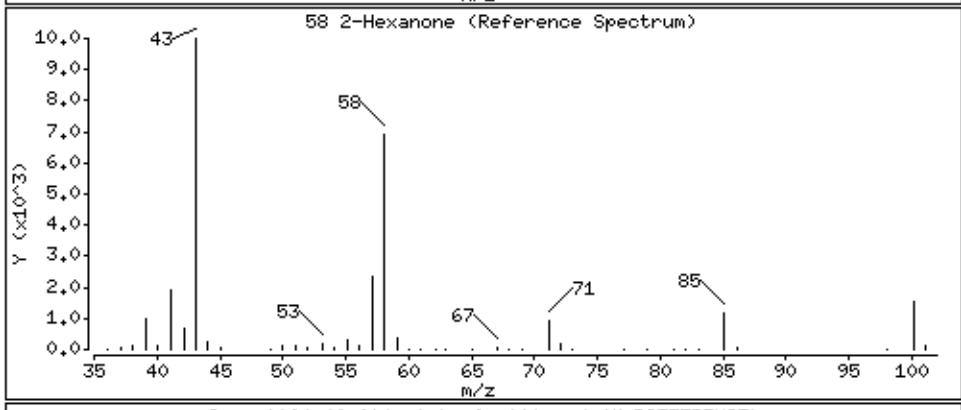
Concentration: 265 ppb

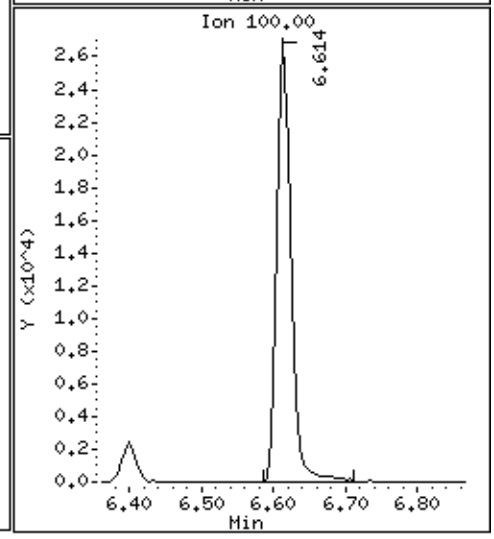


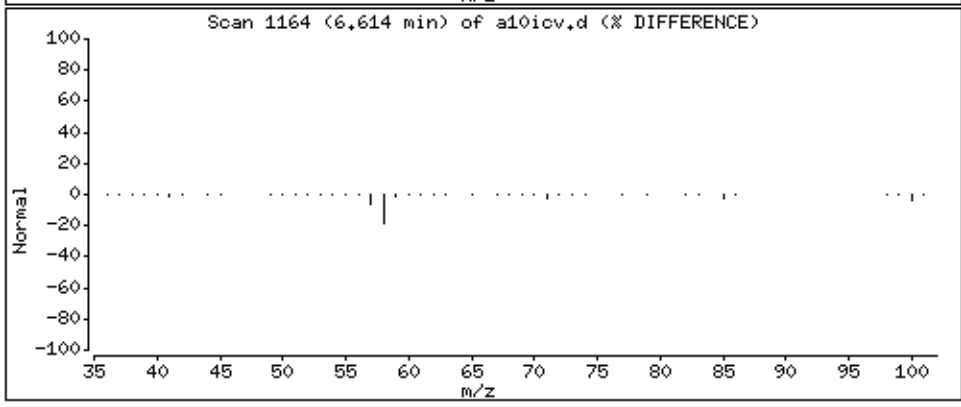












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

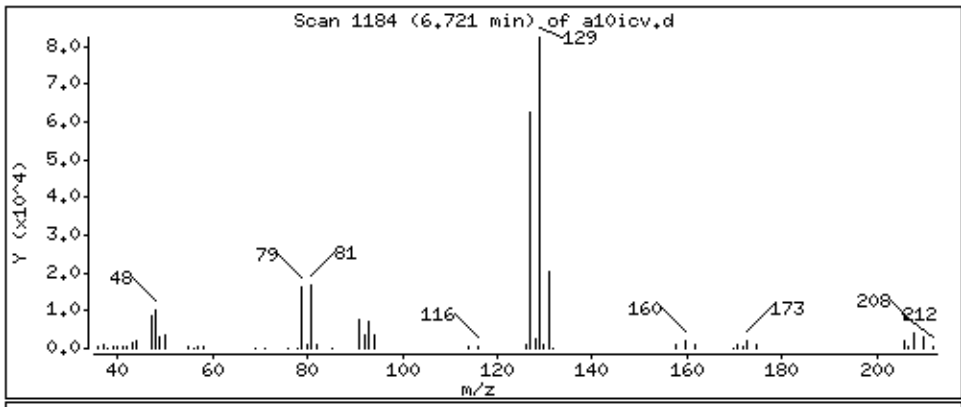
Operator: ala

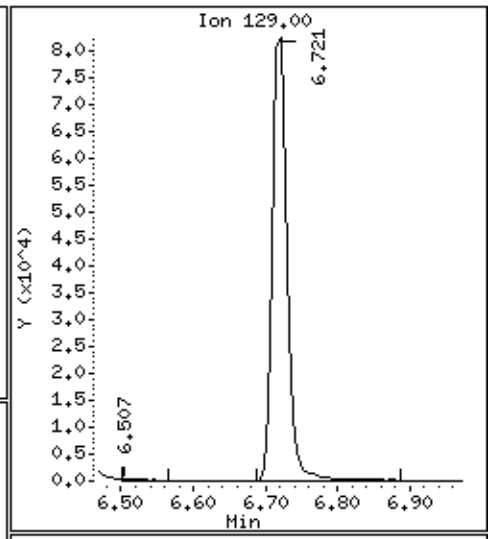
Column phase: DB-624

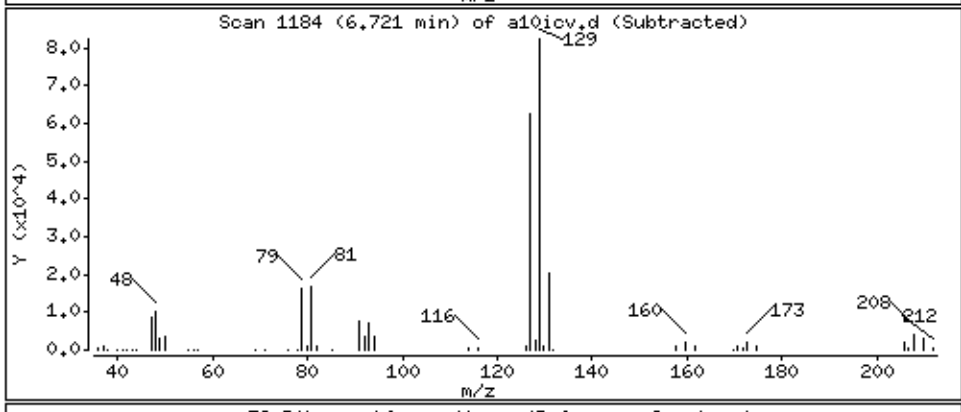
Column diameter: 0.18

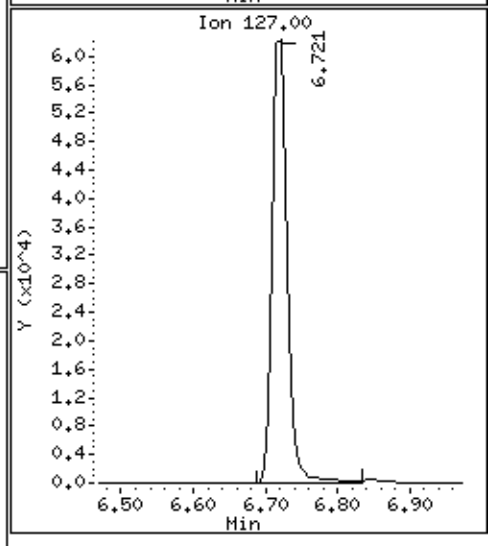
59 Dibromochloromethane

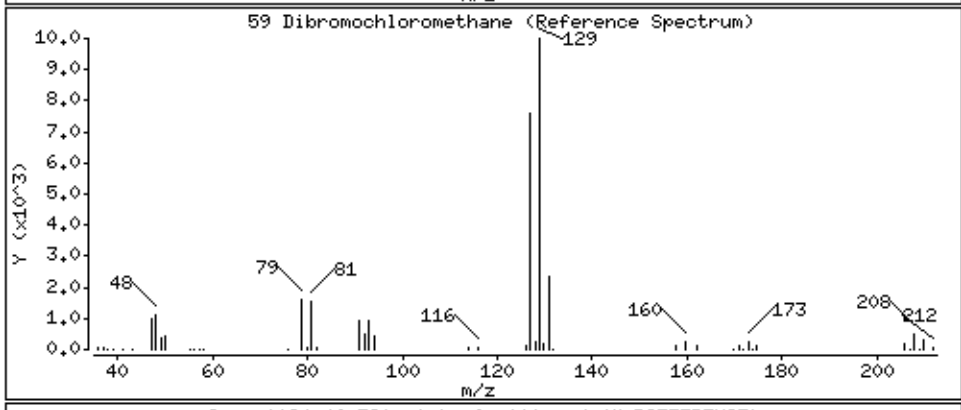
Concentration: 52.6 ppb

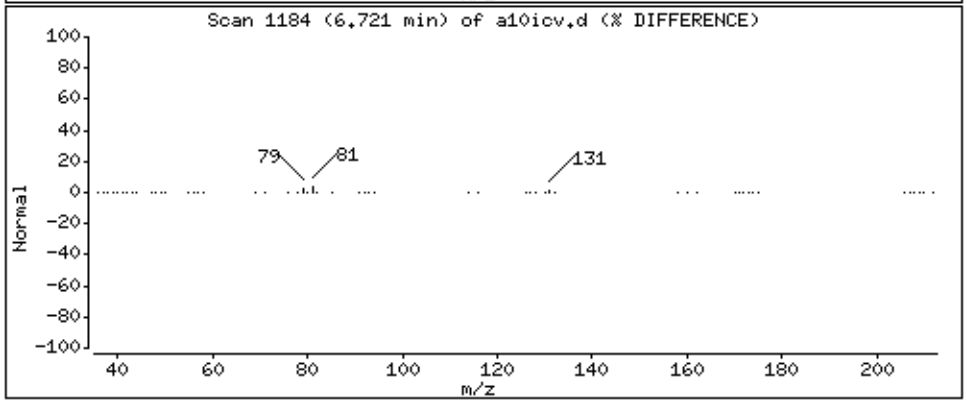












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

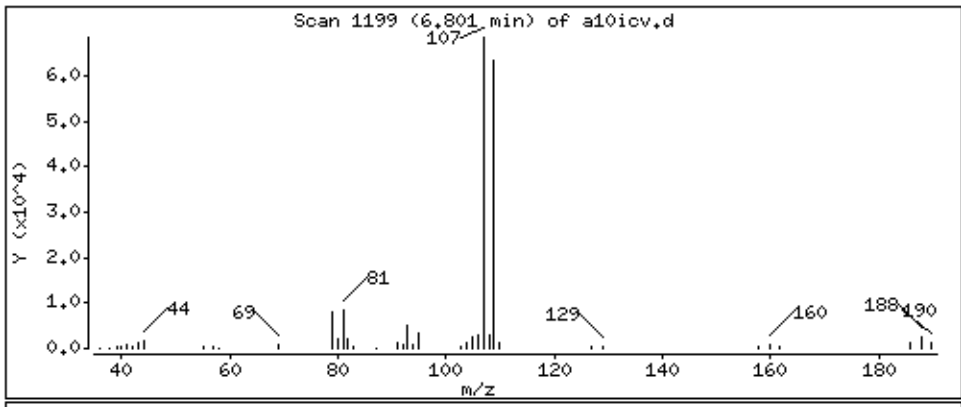
Operator: ala

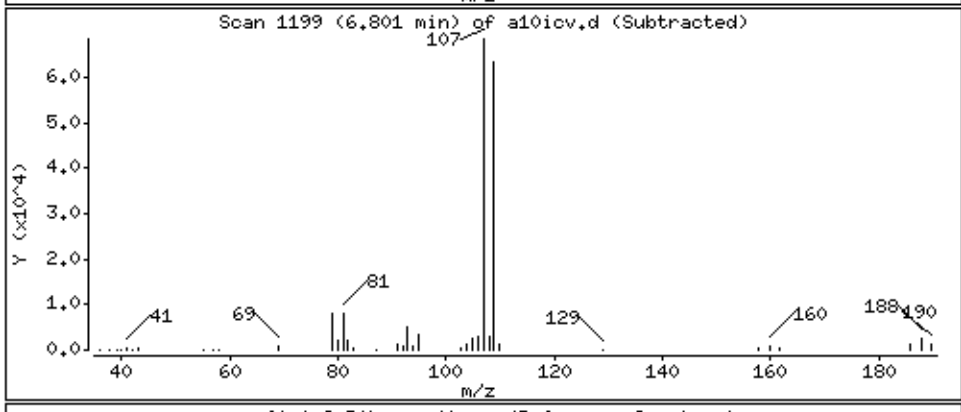
Column phase: DB-624

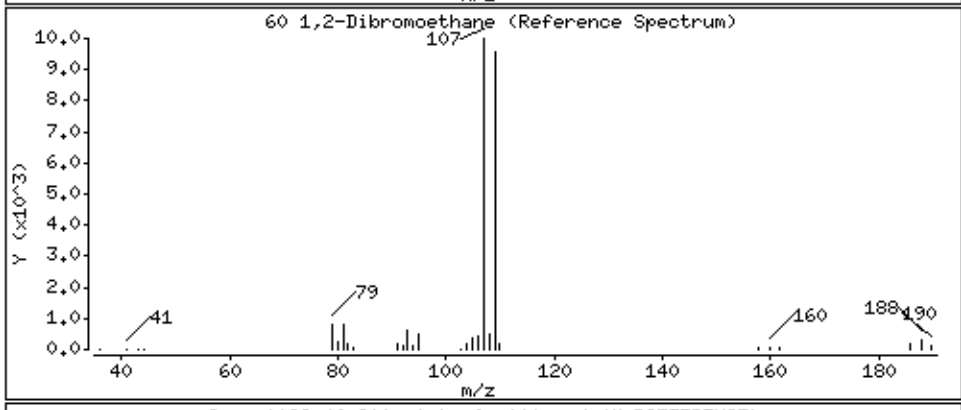
Column diameter: 0.18

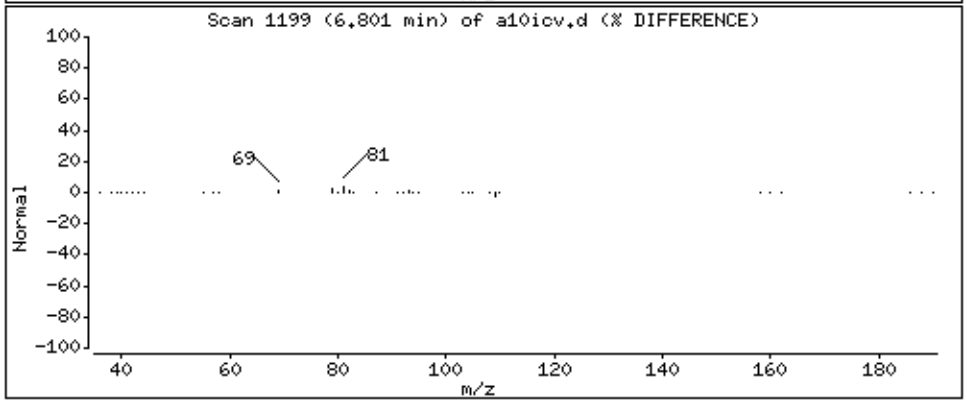
60 1,2-Dibromoethane

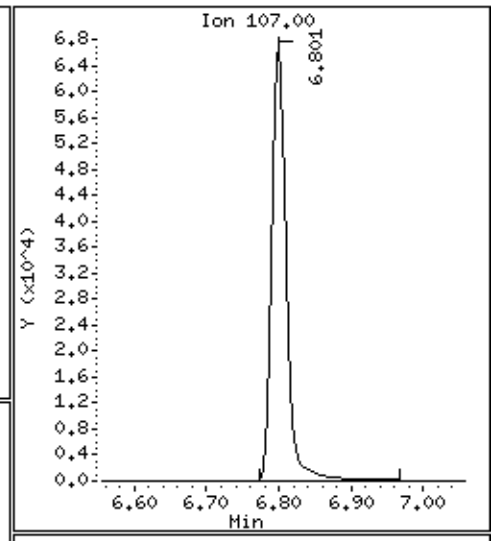
Concentration: 52.5 ppb

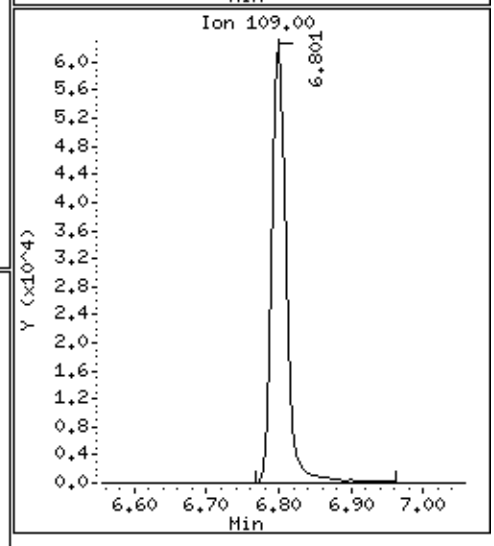












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

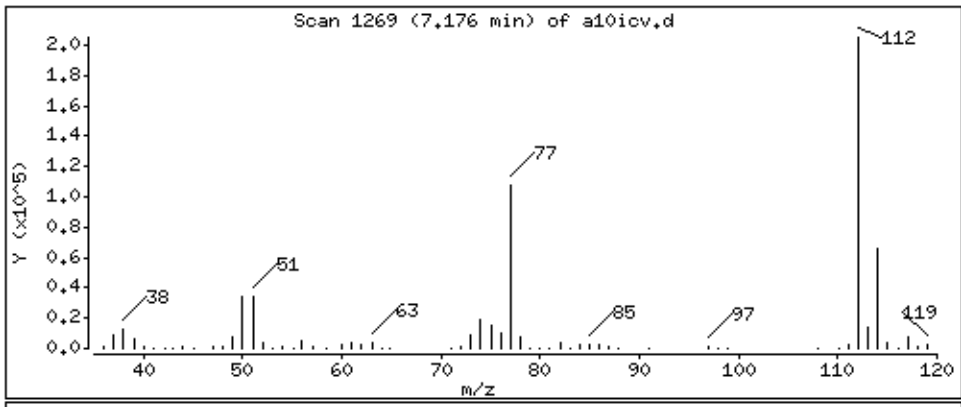
Operator: ala

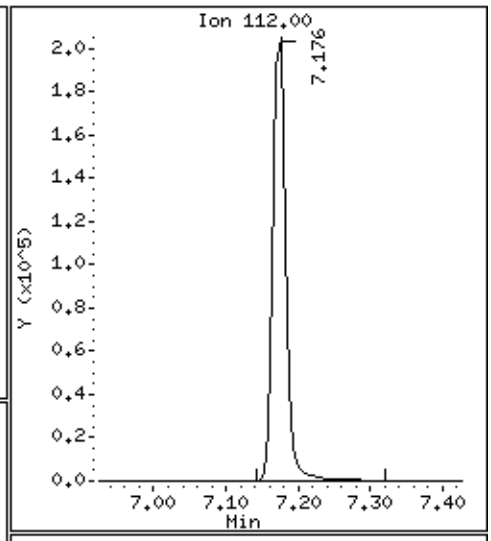
Column phase: DB-624

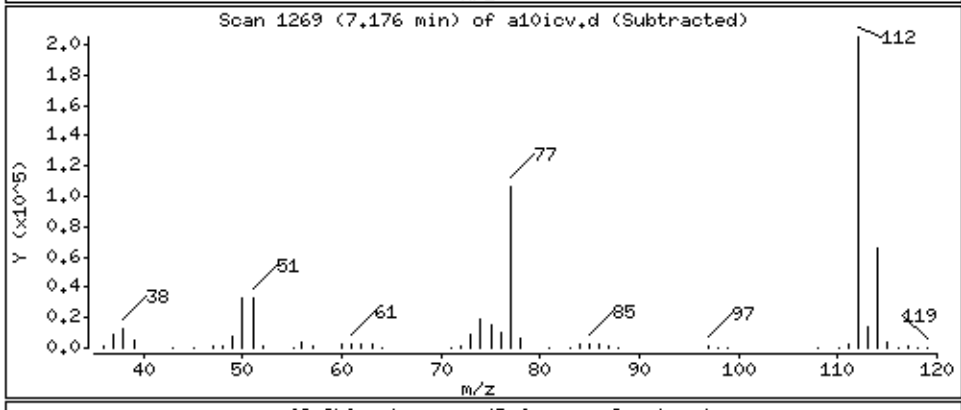
Column diameter: 0.18

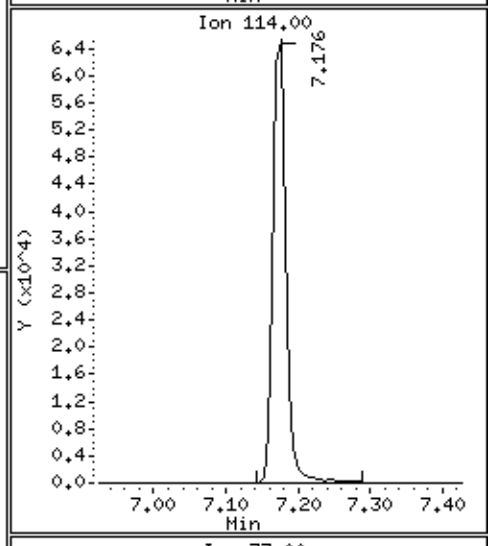
62 Chlorobenzene

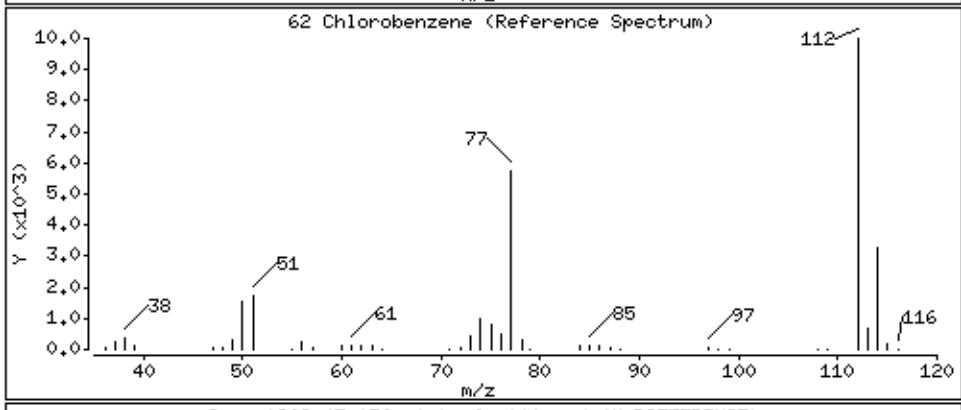
Concentration: 48.1 ppb

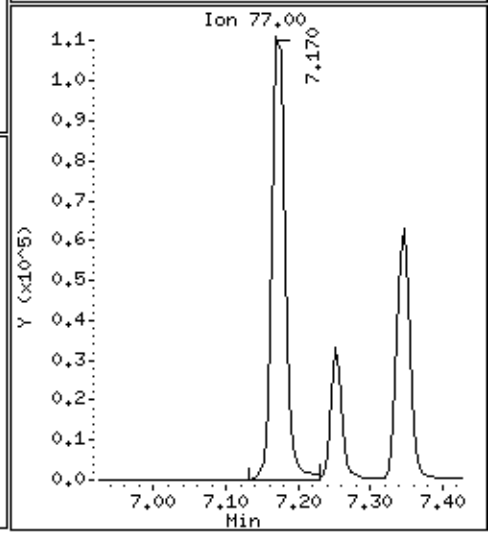


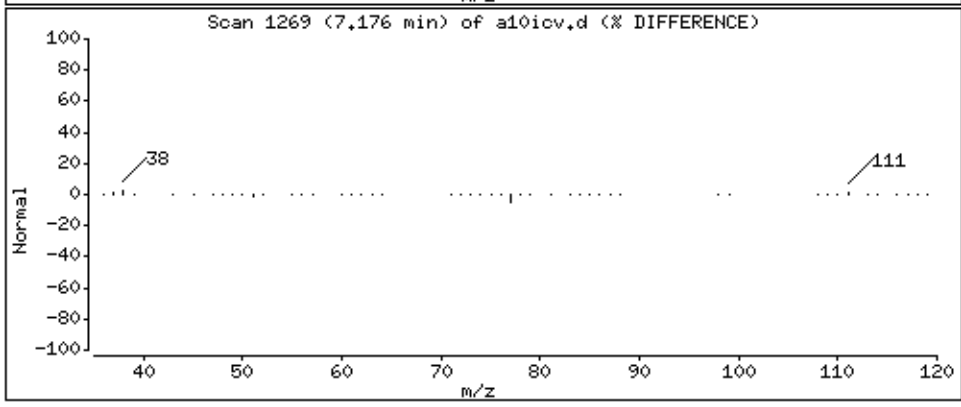












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

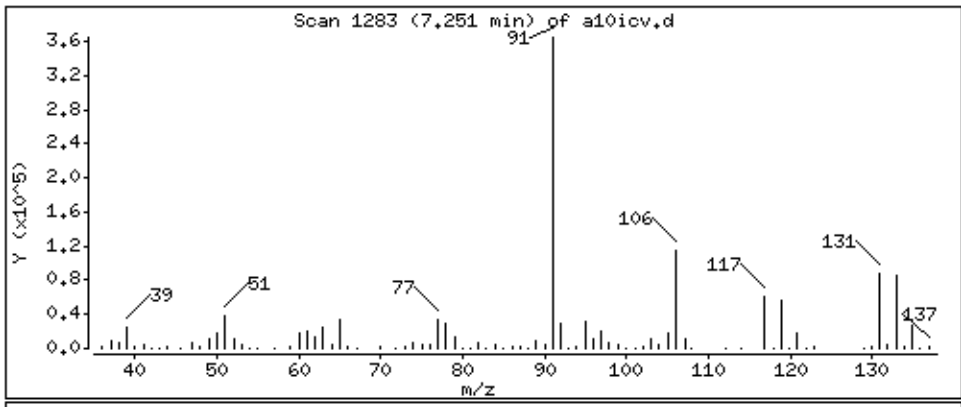
Operator: ala

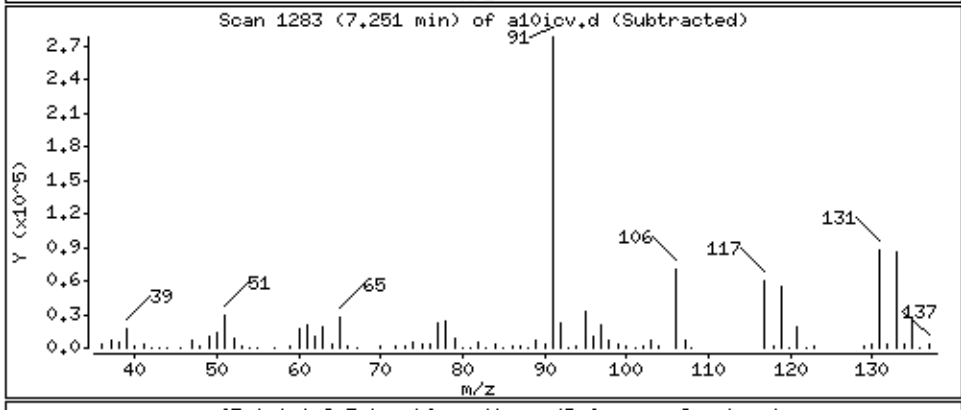
Column phase: DB-624

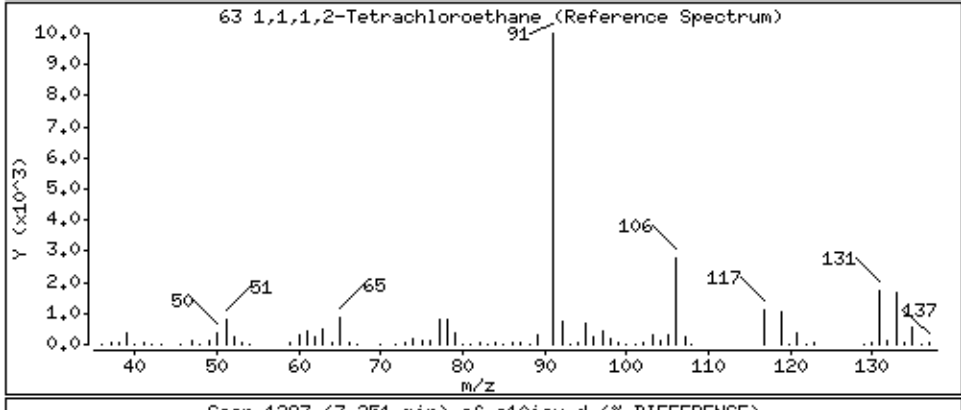
Column diameter: 0.18

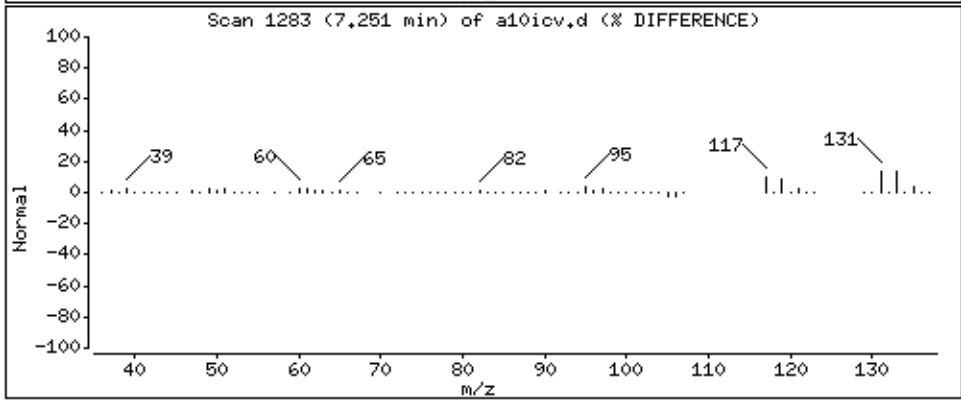
63 1,1,1,2-Tetrachloroethane

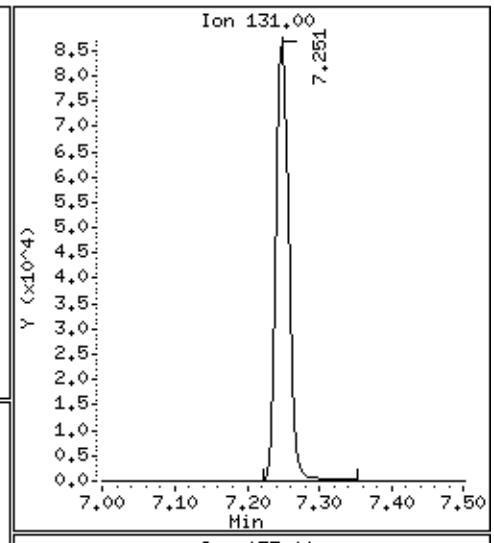
Concentration: 54.8 ppb

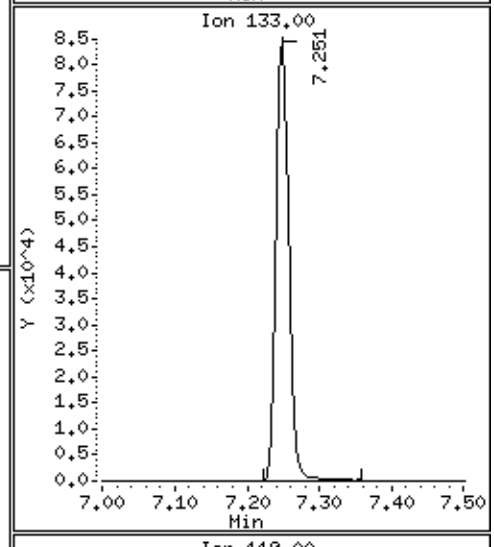


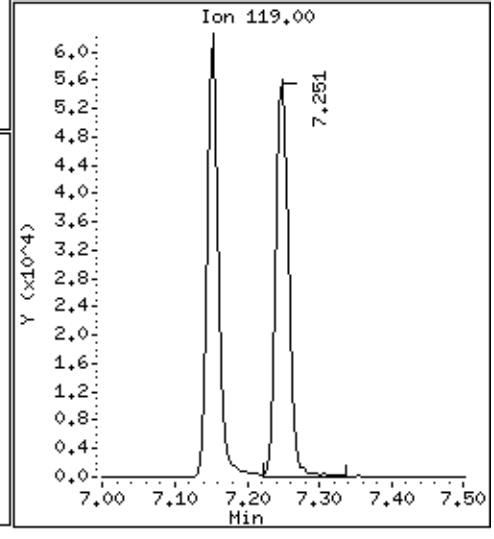












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 68

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

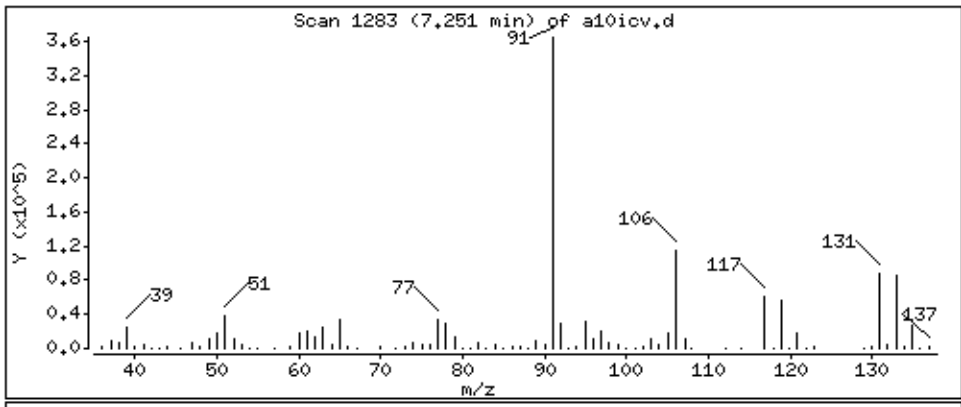
Operator: ala

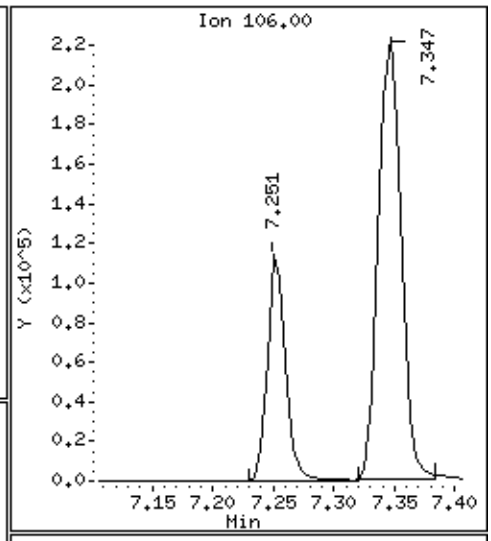
Column phase: DB-624

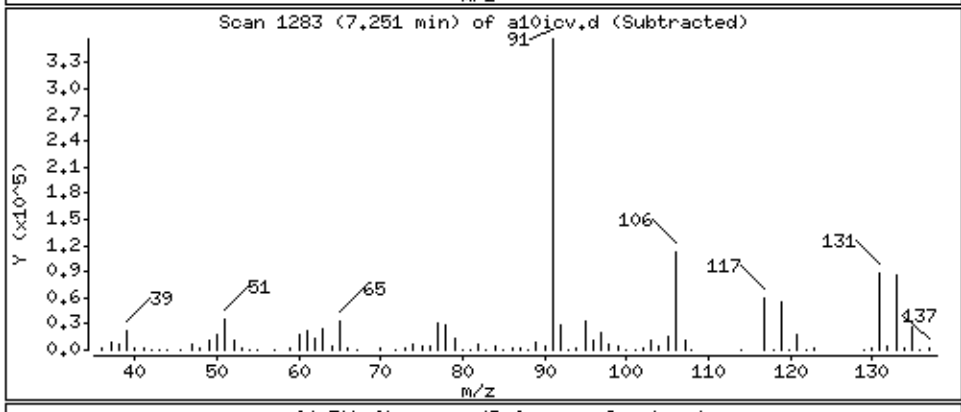
Column diameter: 0.18

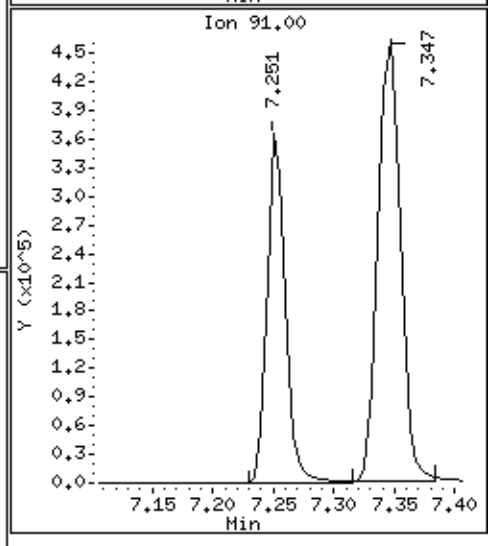
64 Ethylbenzene

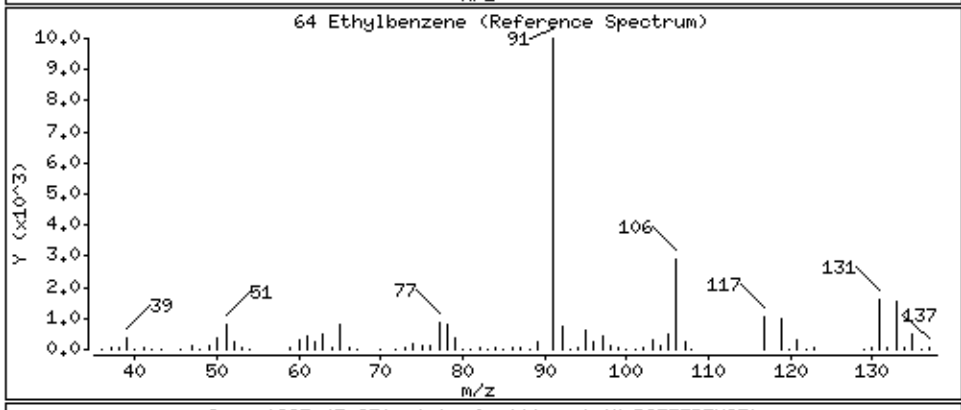
Concentration: 47.1 ppb

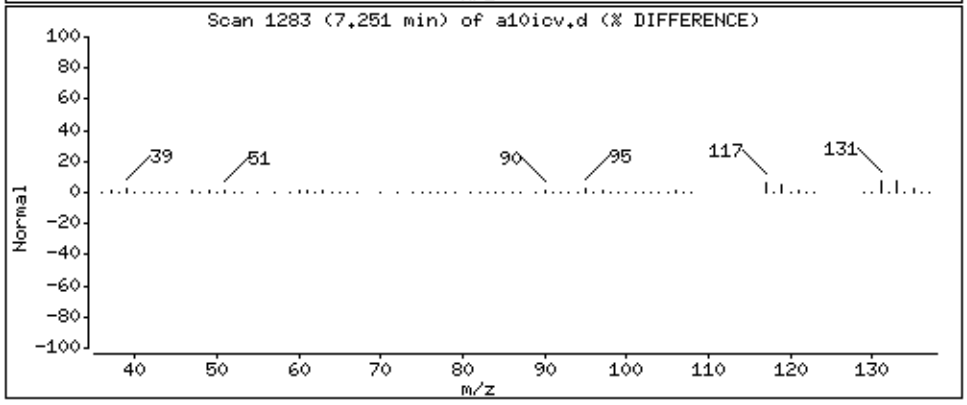












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

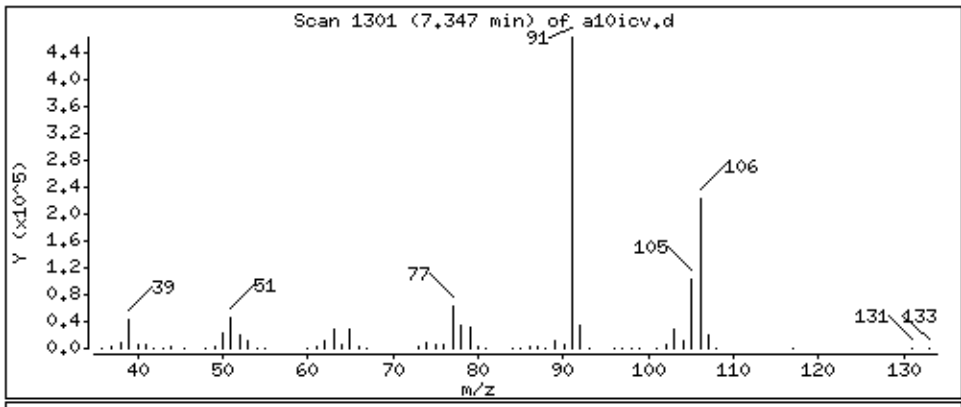
Operator: ala

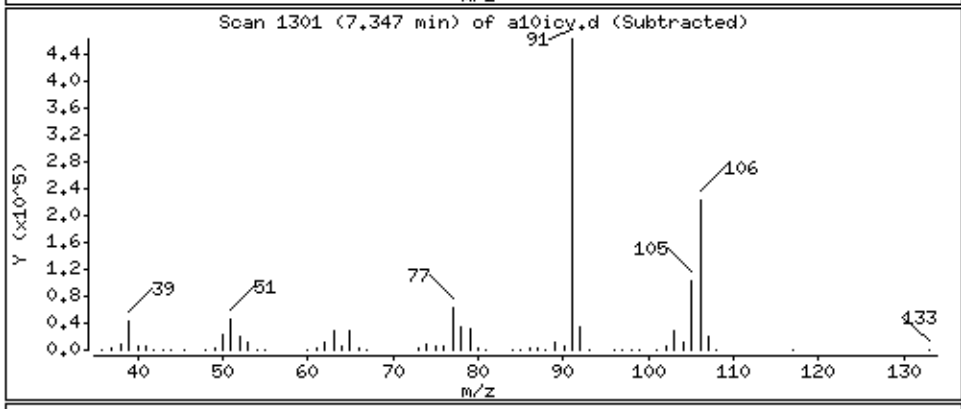
Column phase: DB-624

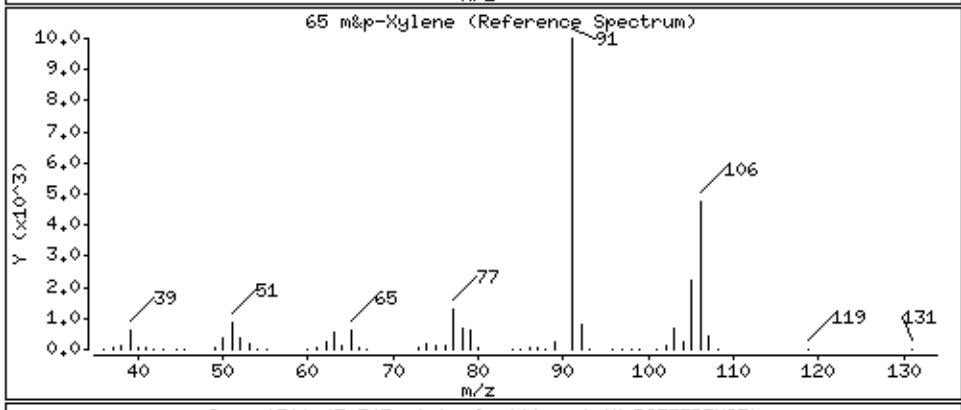
Column diameter: 0.18

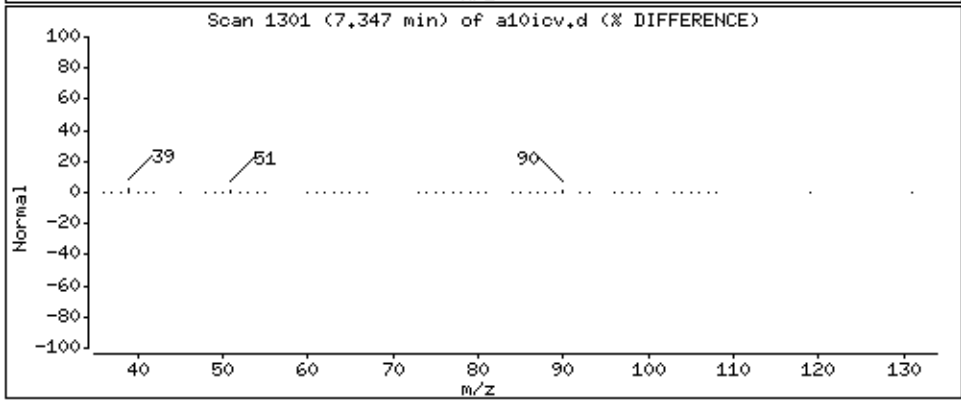
65 m&p-Xylene

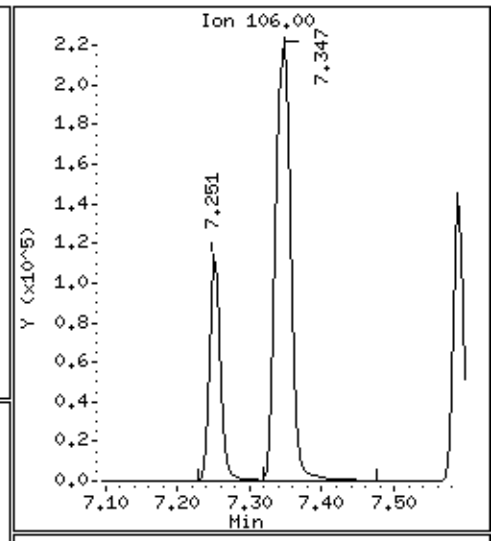
Concentration: 94.8 ppb

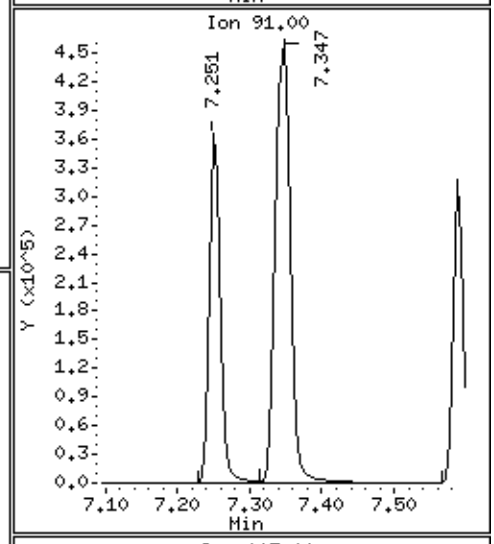


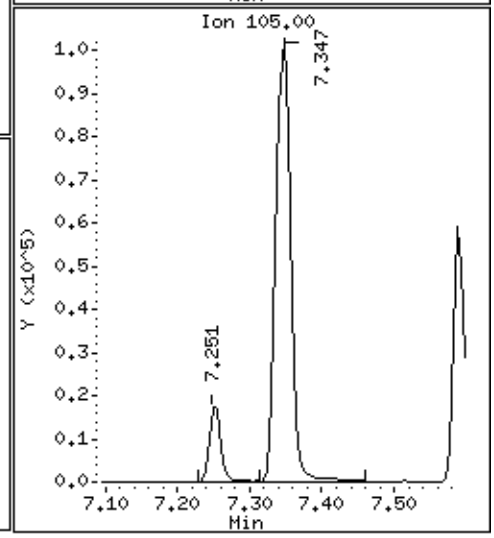












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

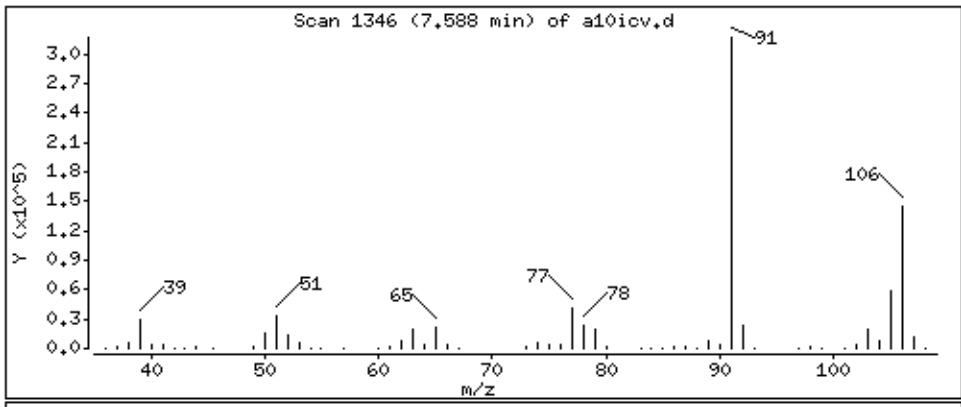
Operator: ala

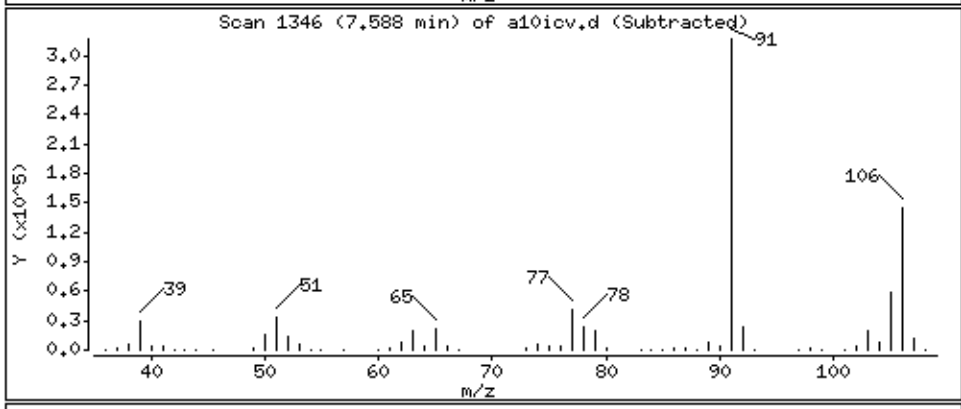
Column phase: DB-624

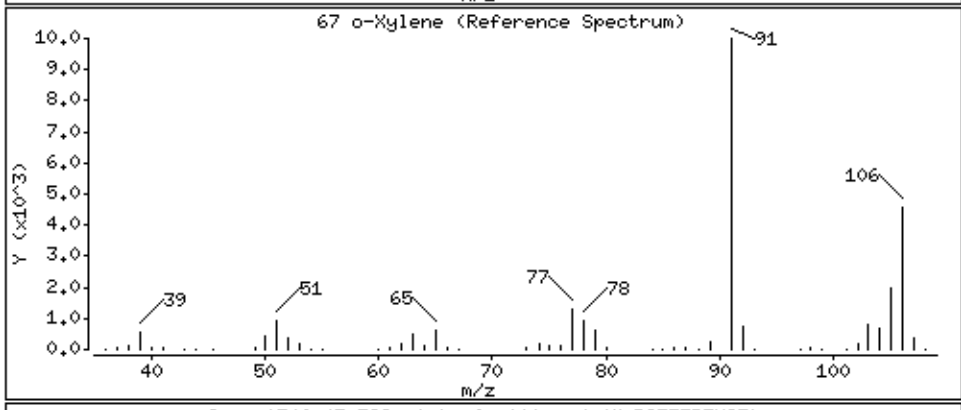
Column diameter: 0.18

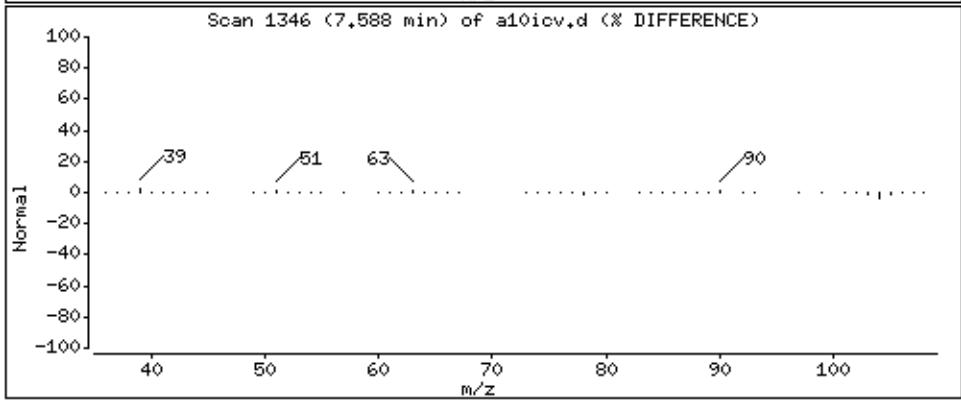
67 o-Xylene

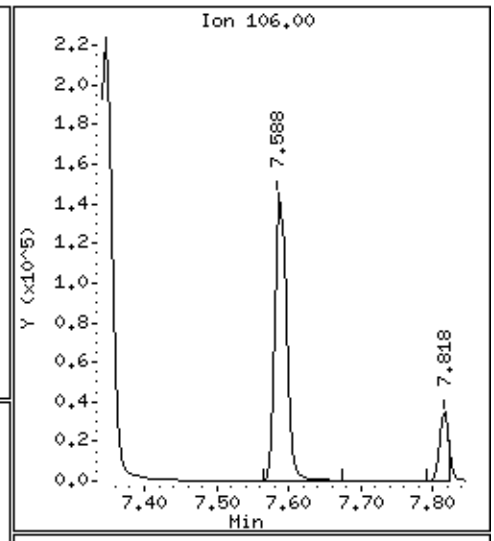
Concentration: 47.5 ppb

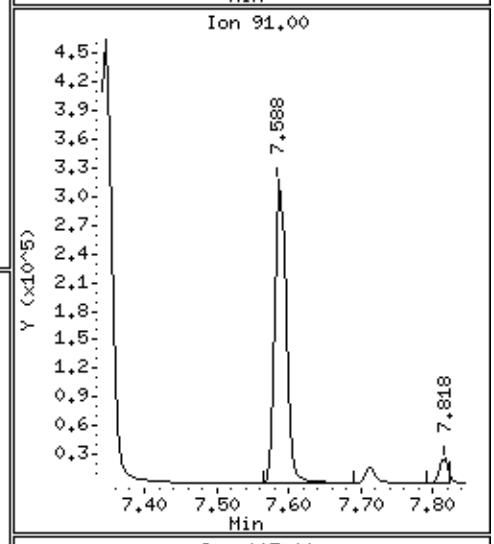


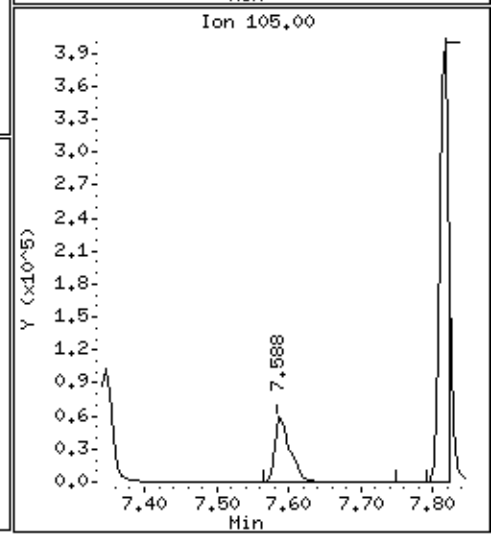












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 71

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

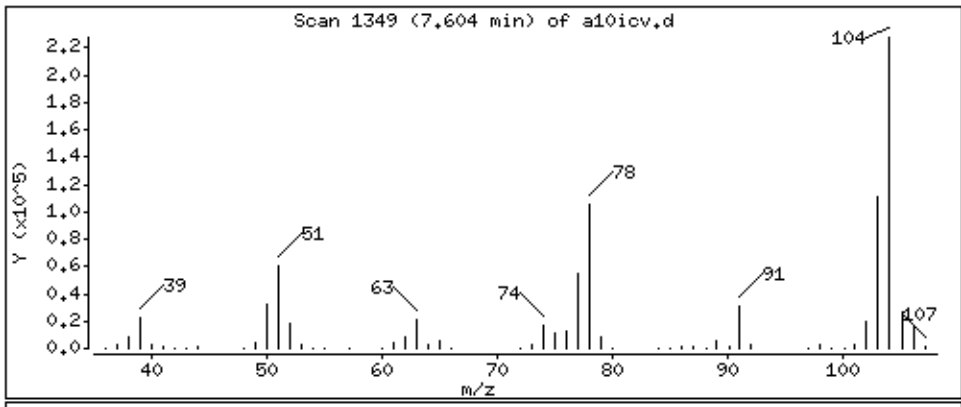
Operator: ala

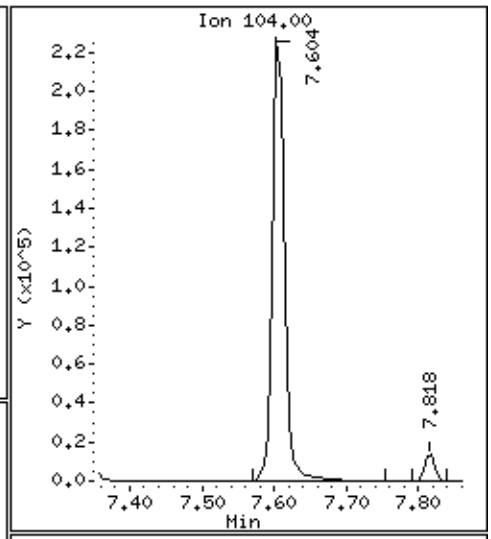
Column phase: DB-624

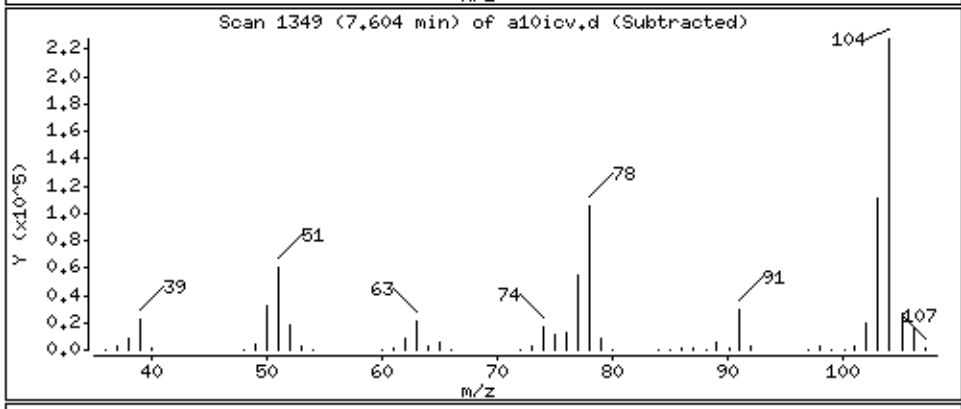
Column diameter: 0.18

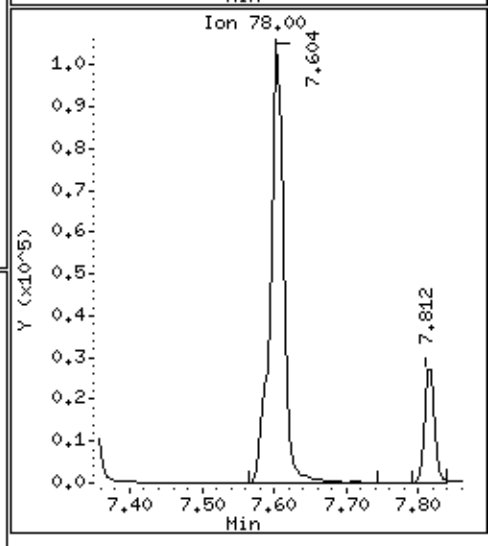
68 Styrene

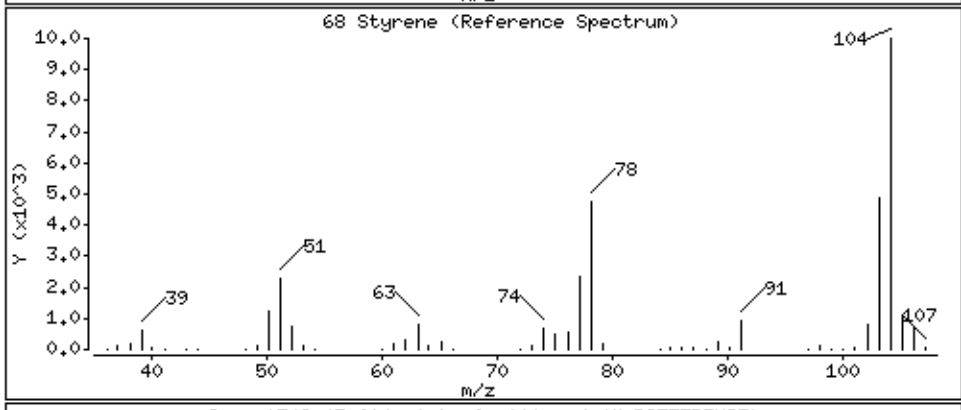
Concentration: 45.7 ppb

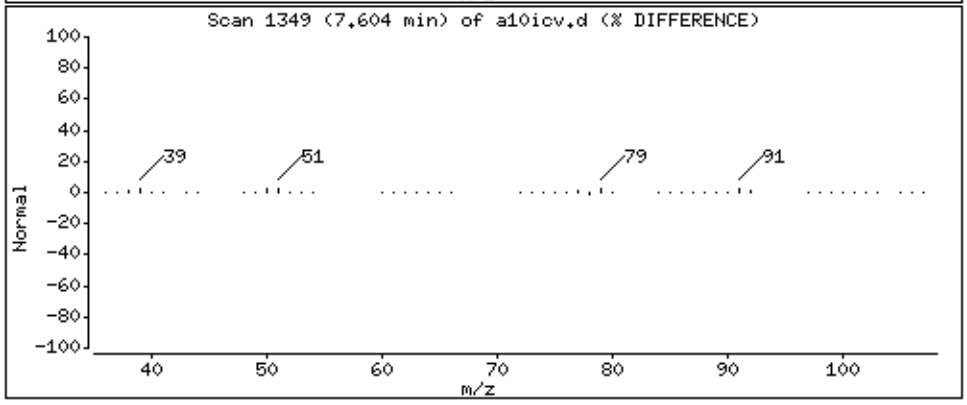












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

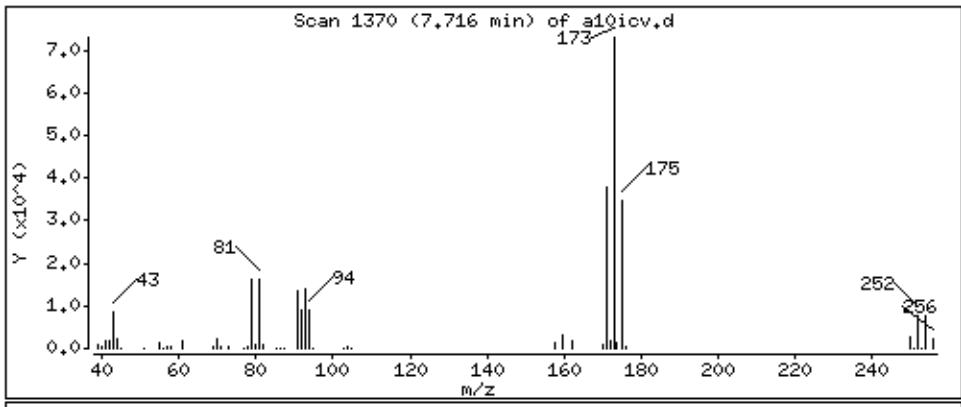
Operator: ala

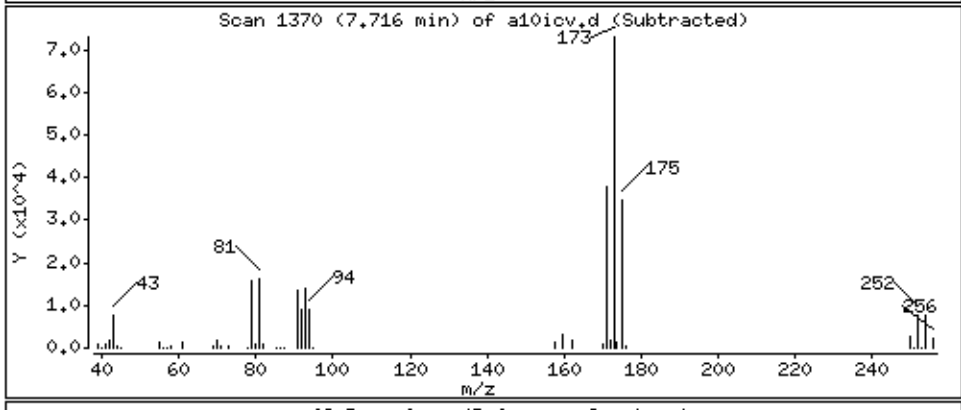
Column phase: DB-624

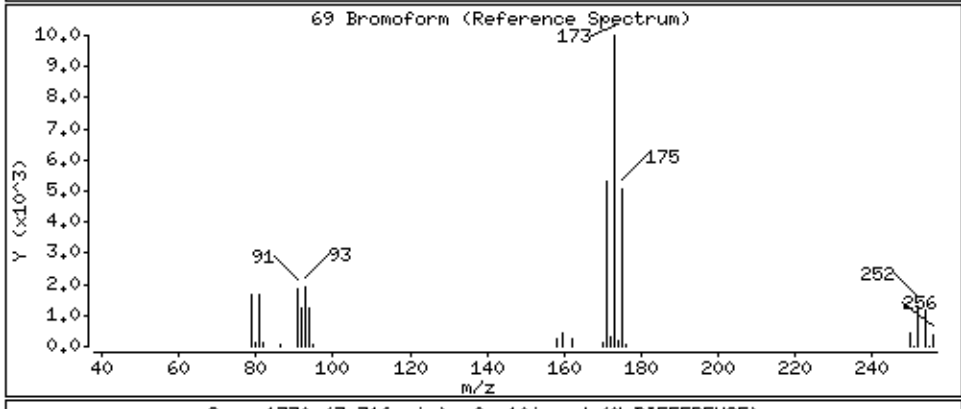
Column diameter: 0.18

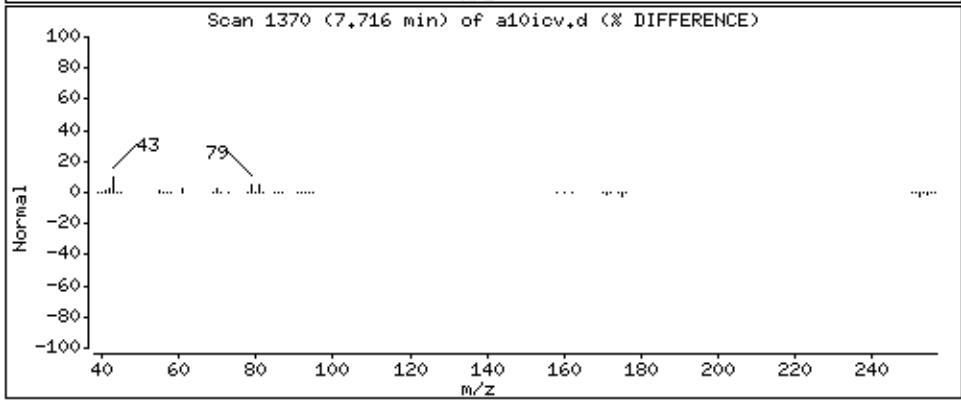
69 Bromoform

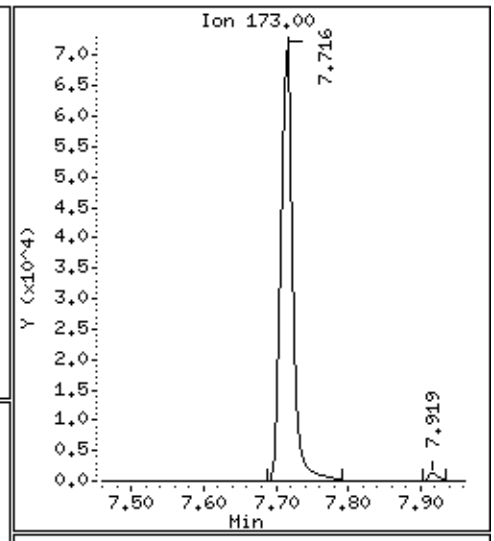
Concentration: 46.0 ppb

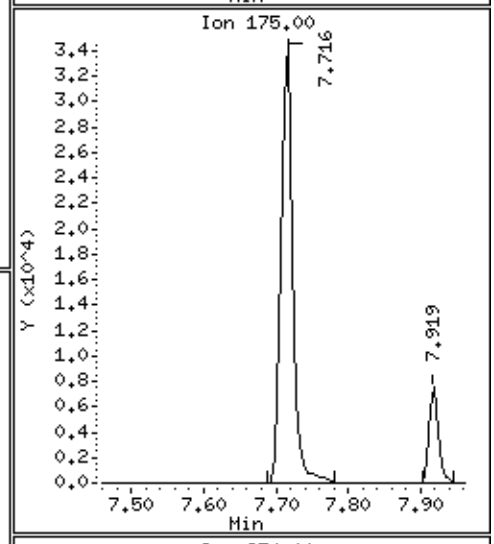


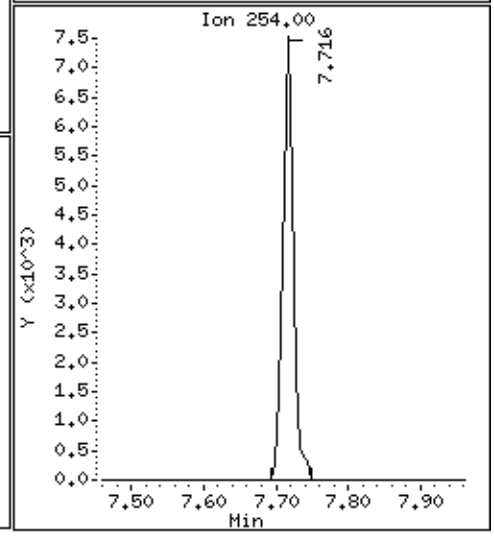












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

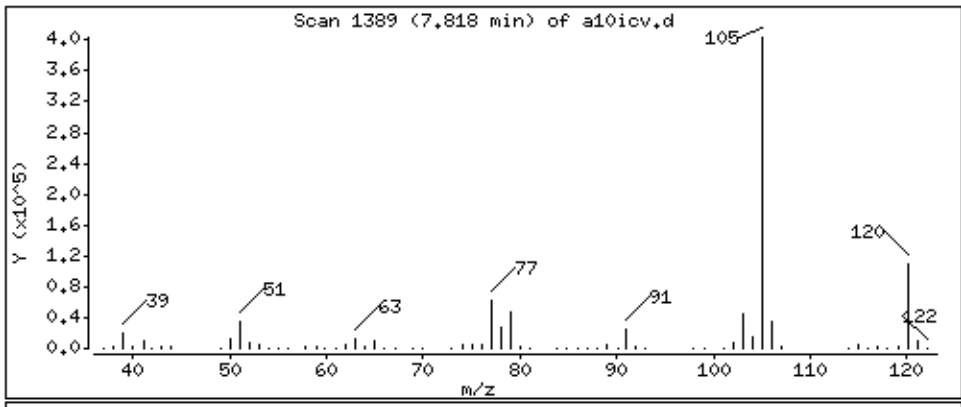
Operator: ala

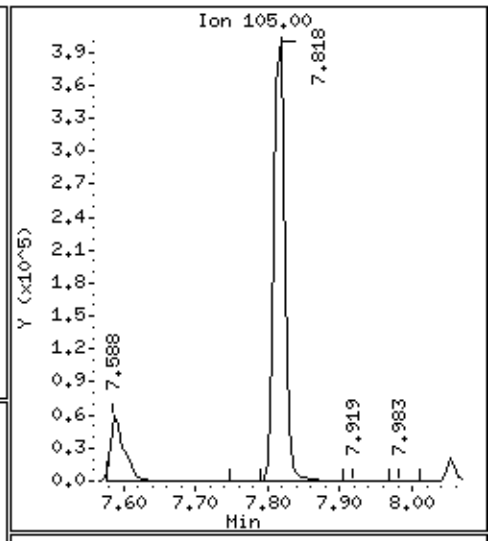
Column phase: DB-624

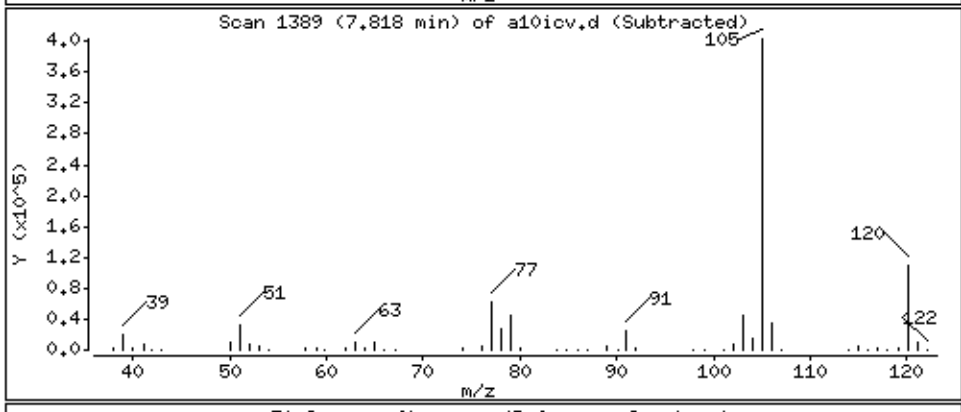
Column diameter: 0.18

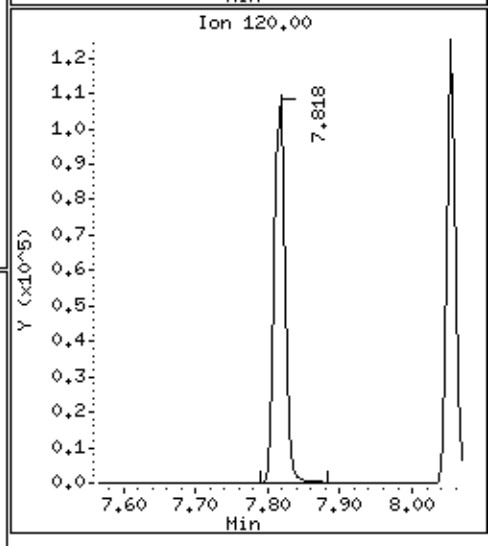
70 Isopropylbenzene

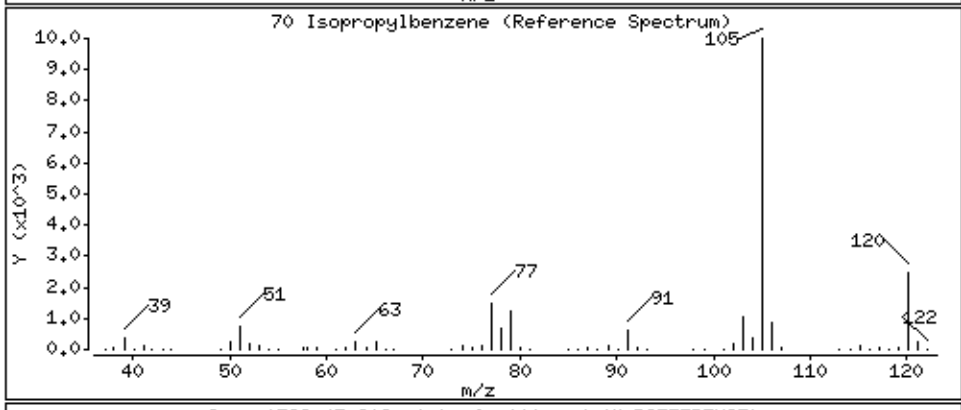
Concentration: 47.6 ppb

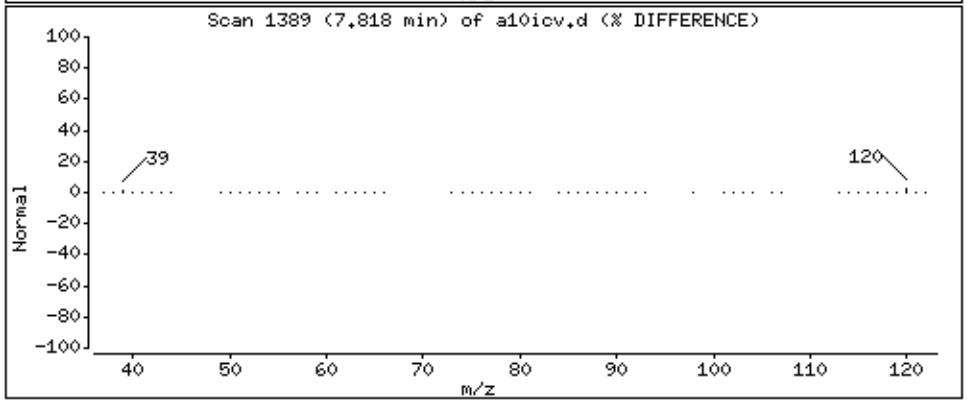












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

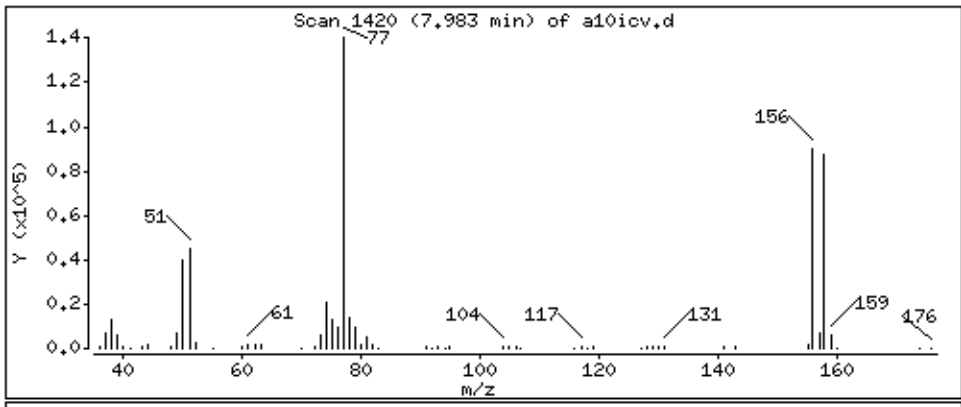
Operator: ala

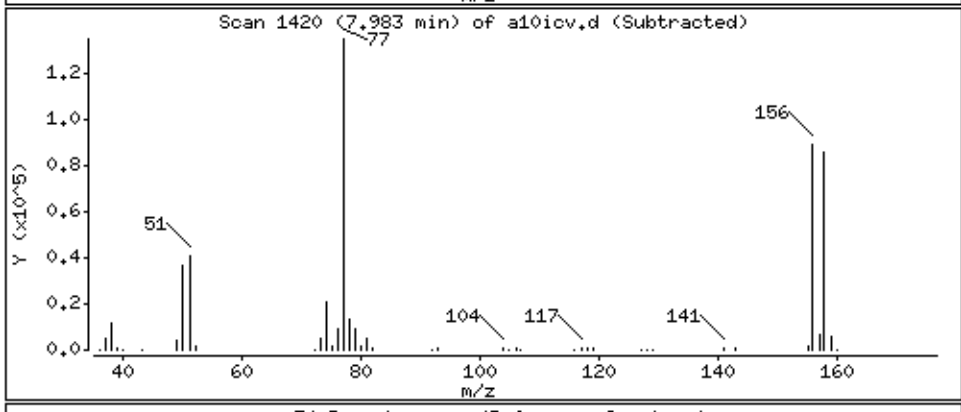
Column phase: DB-624

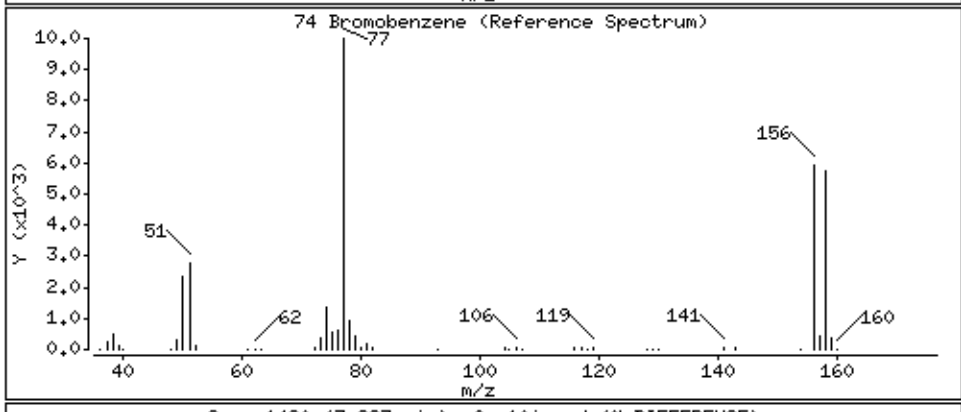
Column diameter: 0.18

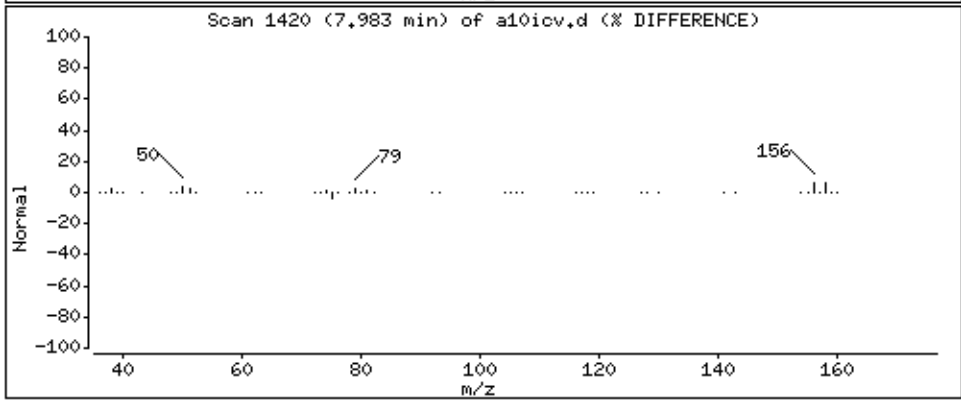
74 Bromobenzene

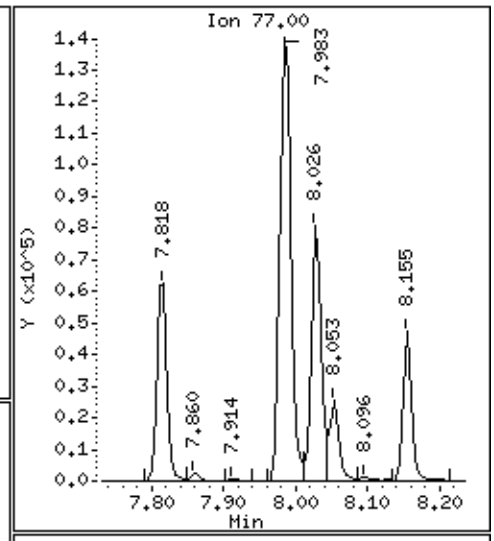
Concentration: 46.9 ppb

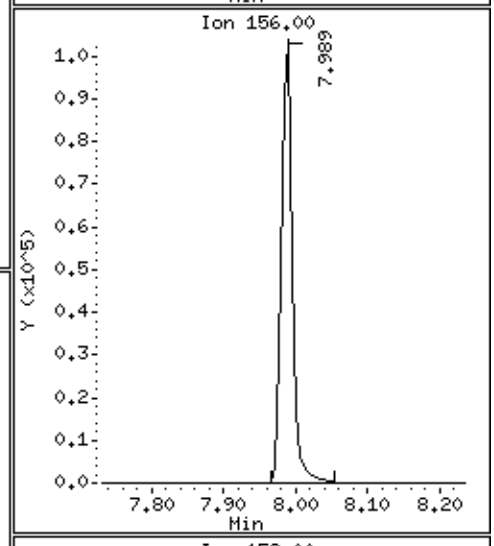


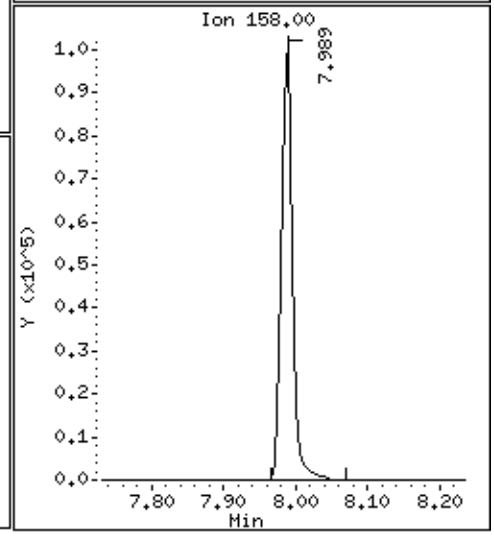












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

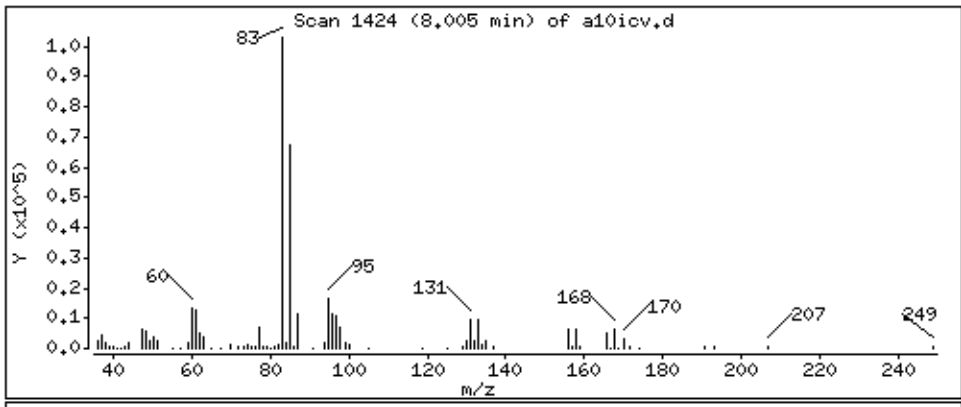
Operator: ala

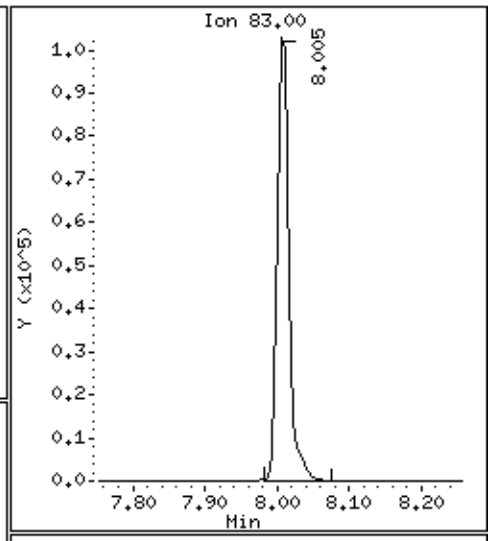
Column phase: DB-624

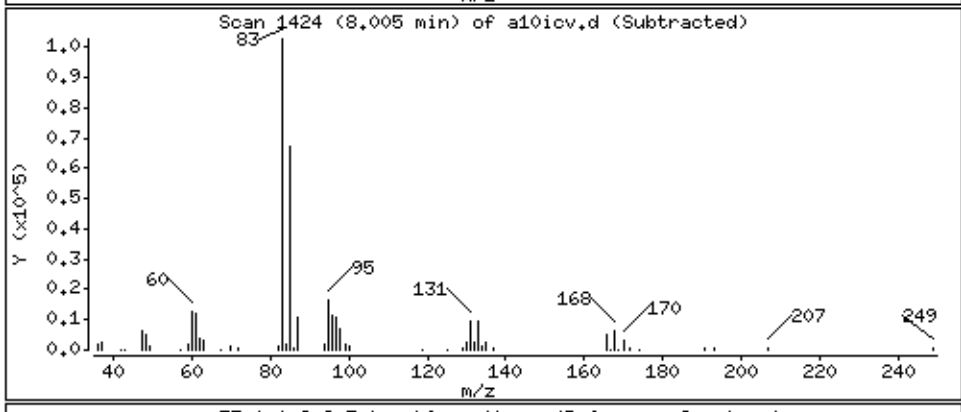
Column diameter: 0.18

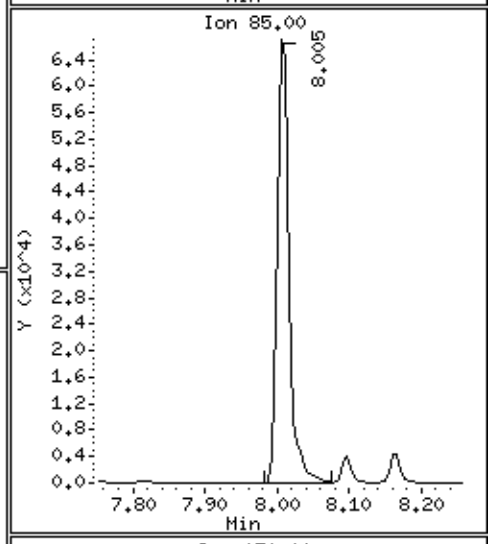
73 1,1,2,2-Tetrachloroethane

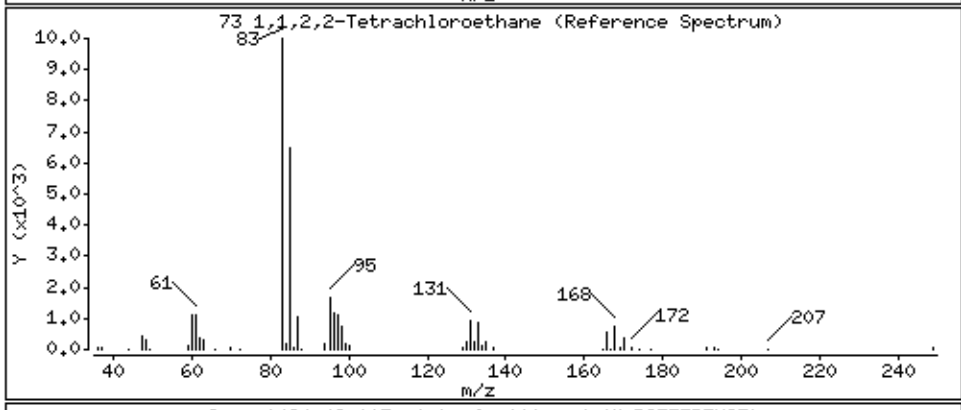
Concentration: 48.5 ppb

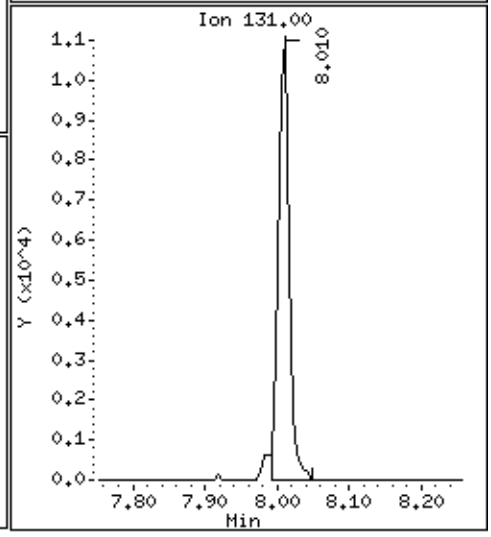


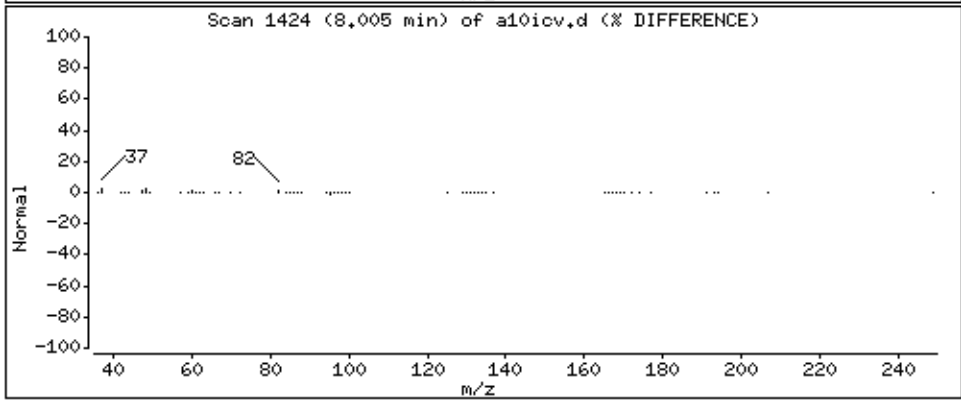












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

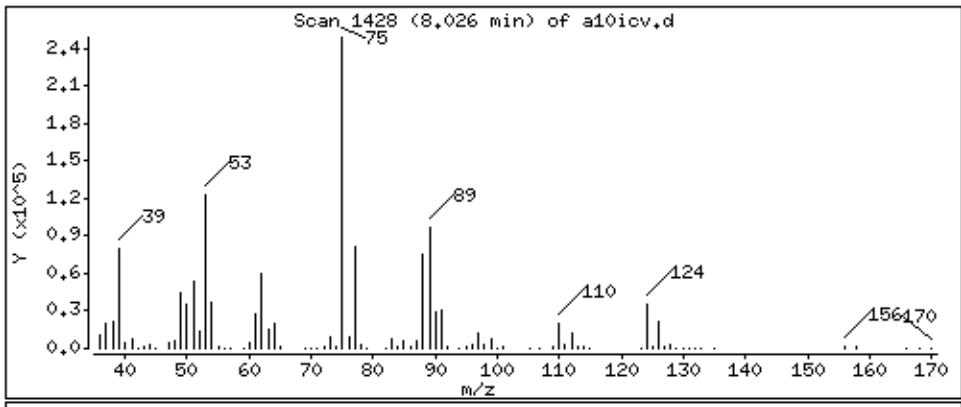
Operator: ala

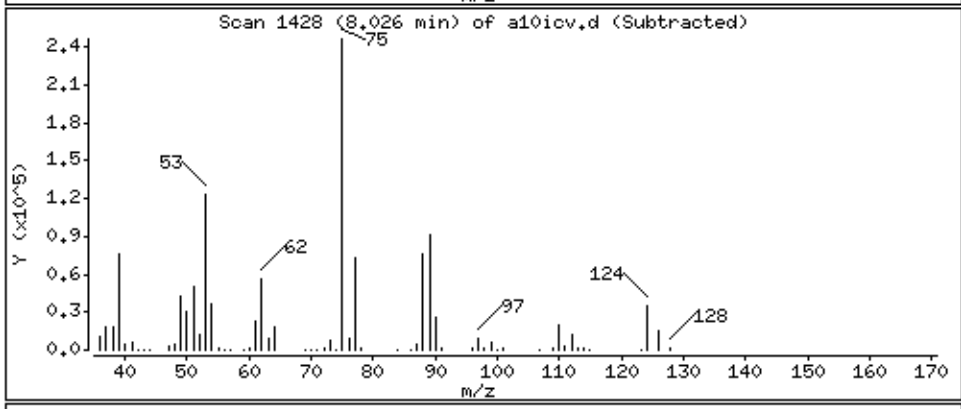
Column phase: DB-624

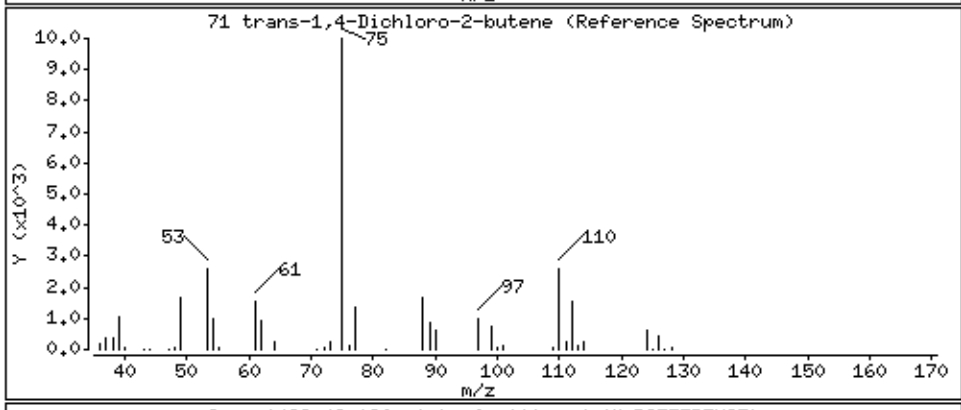
Column diameter: 0.18

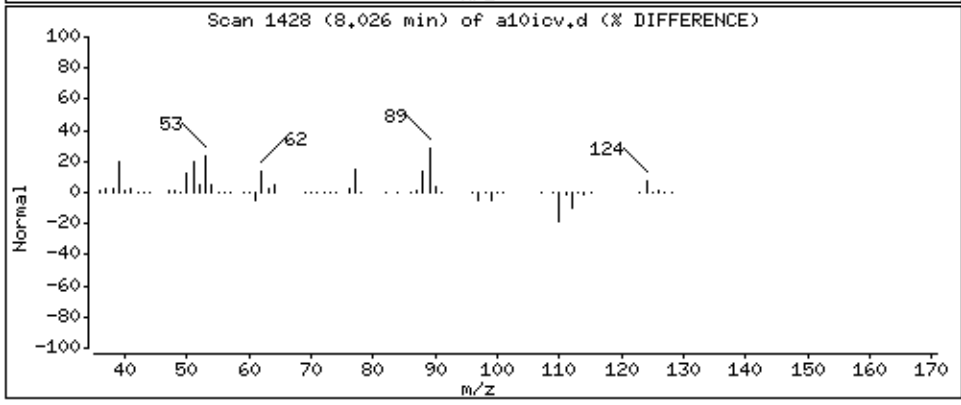
71 trans-1,4-Dichloro-2-butene

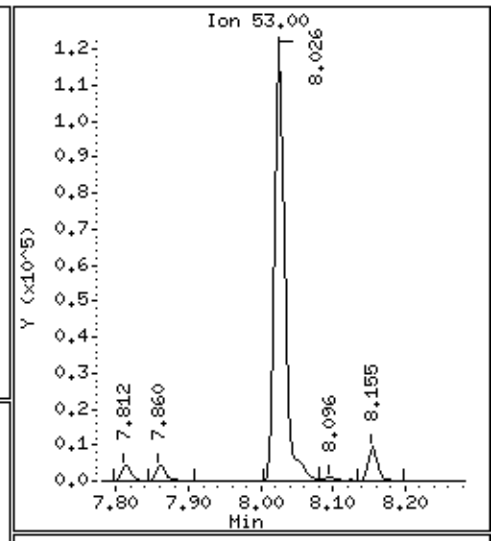
Concentration: 169 ppb

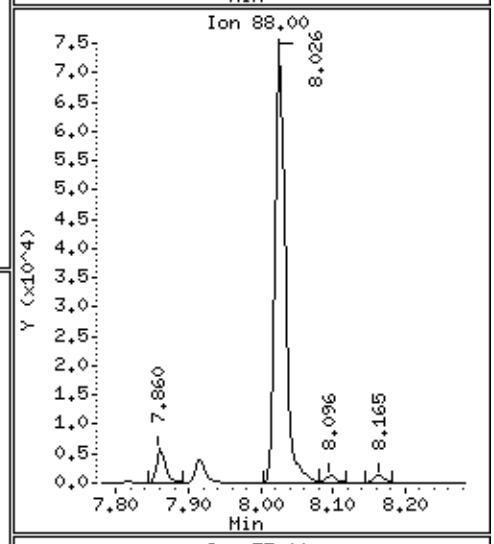


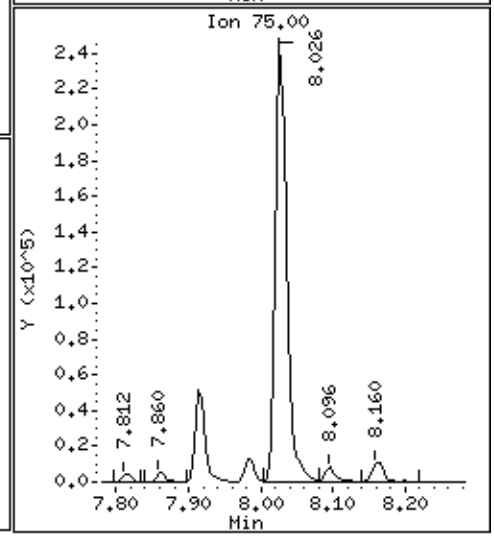












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

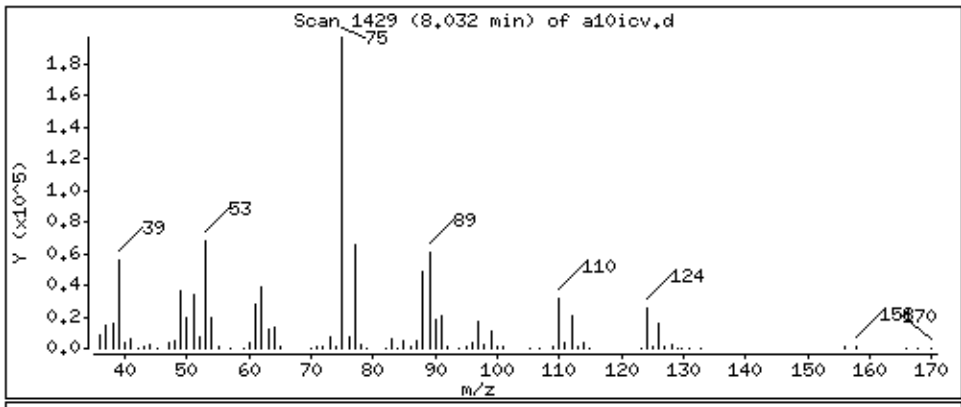
Operator: ala

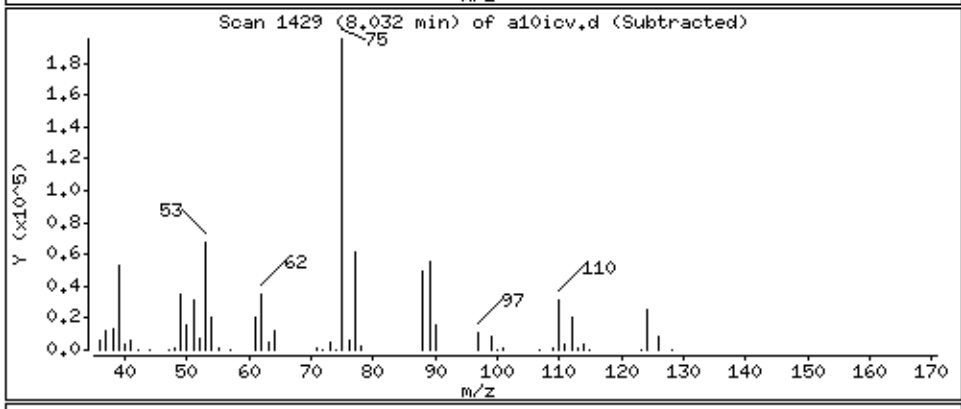
Column phase: DB-624

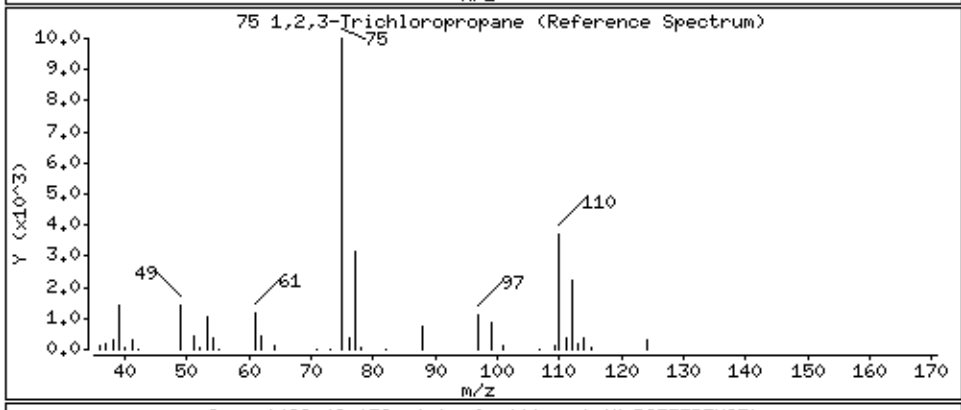
Column diameter: 0.18

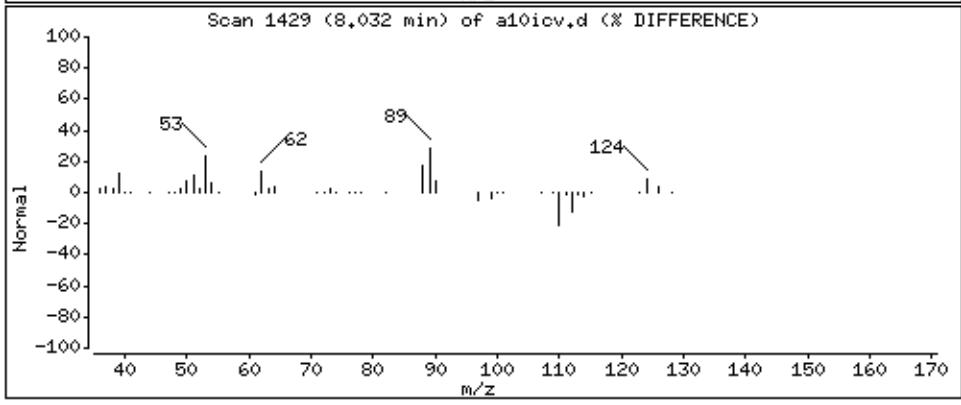
75 1,2,3-Trichloropropane

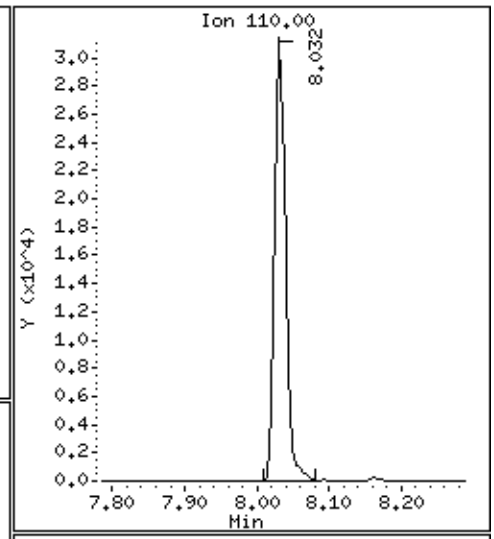
Concentration: 49.8 ppb

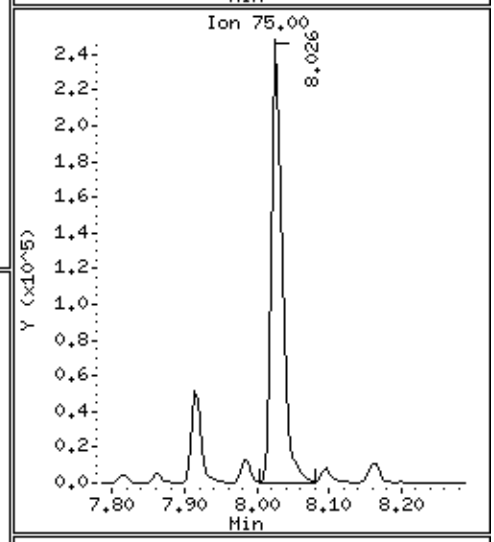


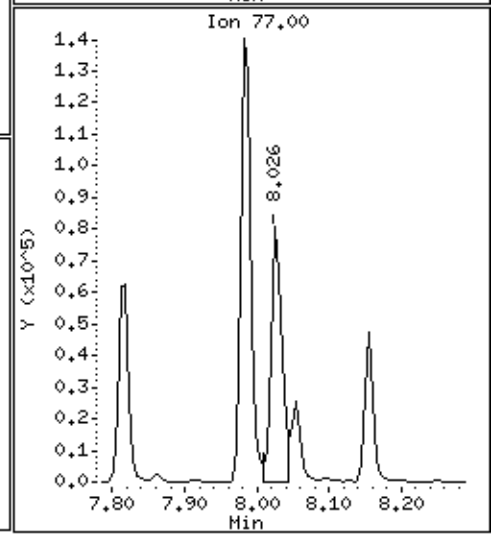












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

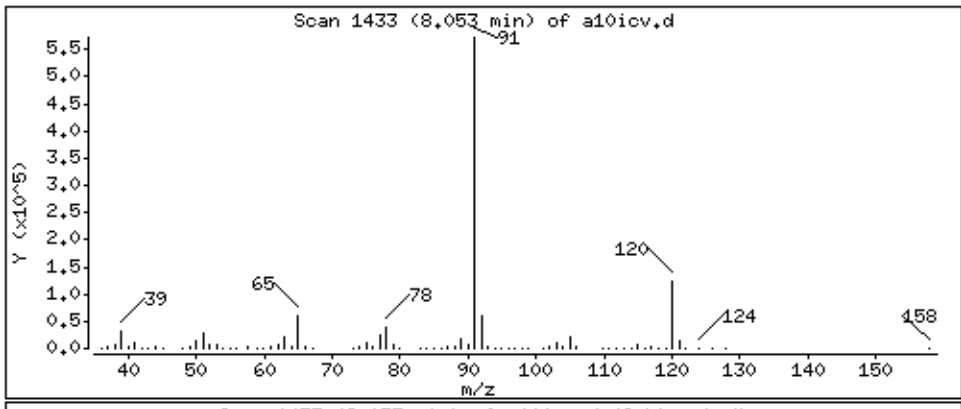
Operator: ala

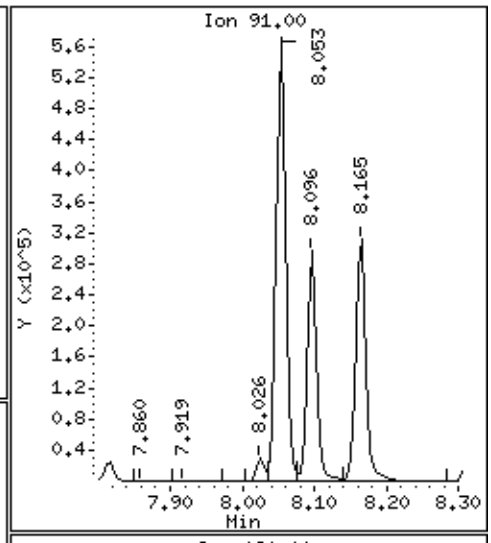
Column phase: DB-624

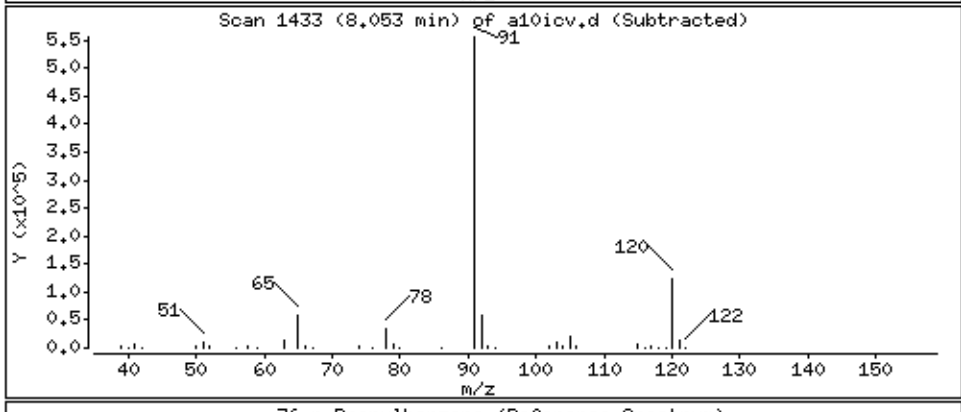
Column diameter: 0.18

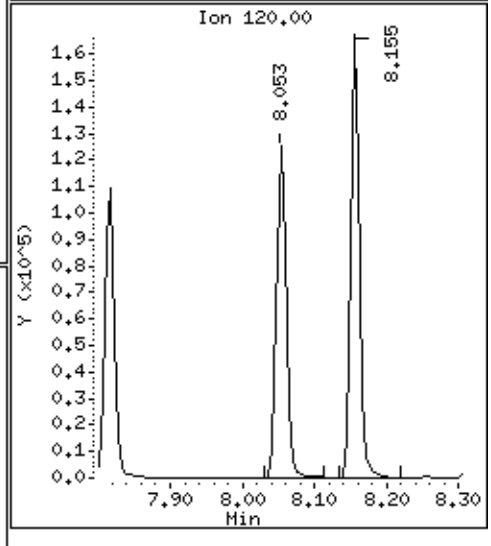
76 n-Propylbenzene

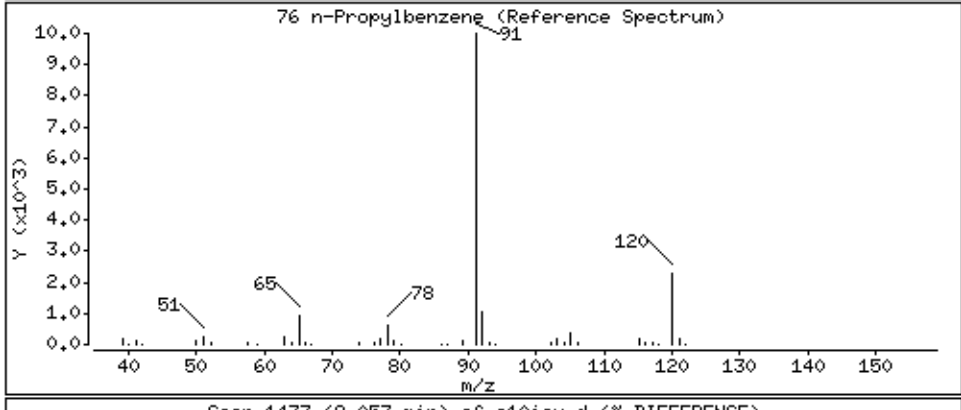
Concentration: 48.8 ppb

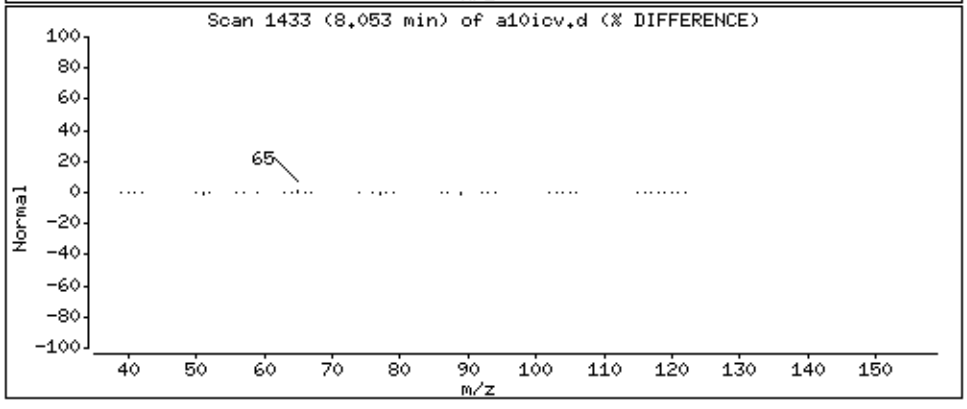












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

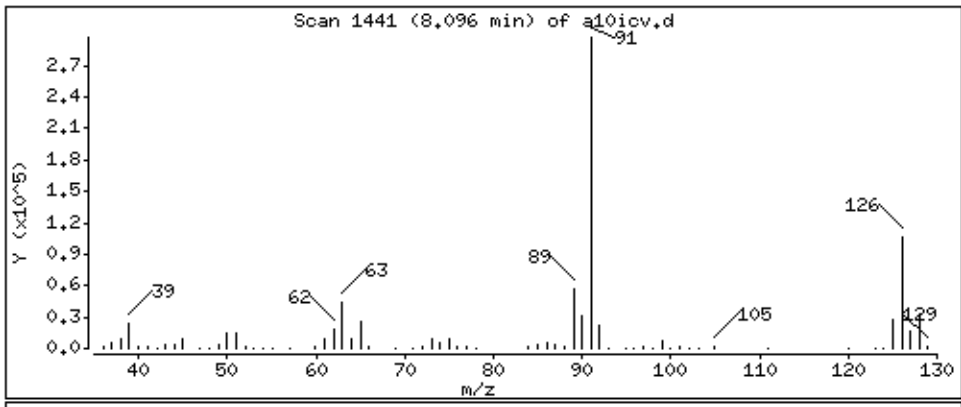
Operator: ala

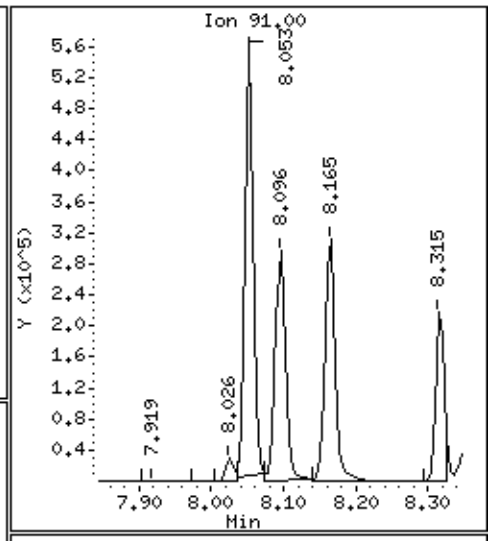
Column phase: DB-624

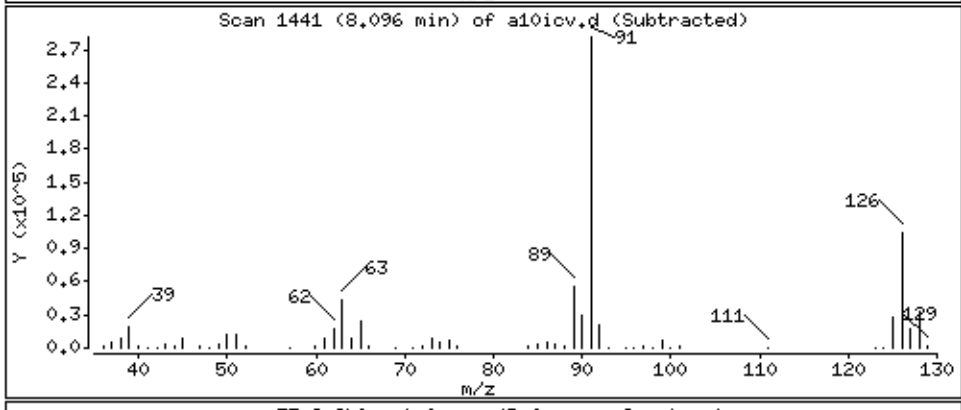
Column diameter: 0.18

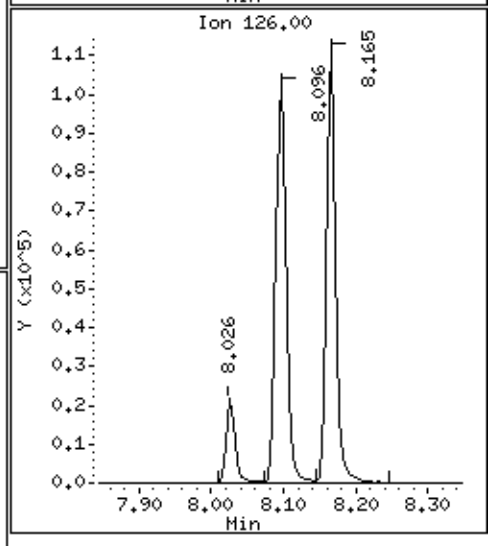
77 2-Chlorotoluene

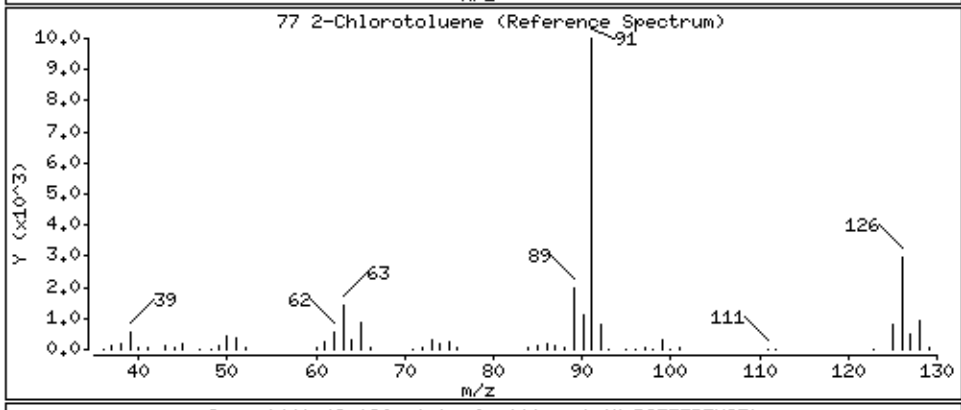
Concentration: 49.4 ppb

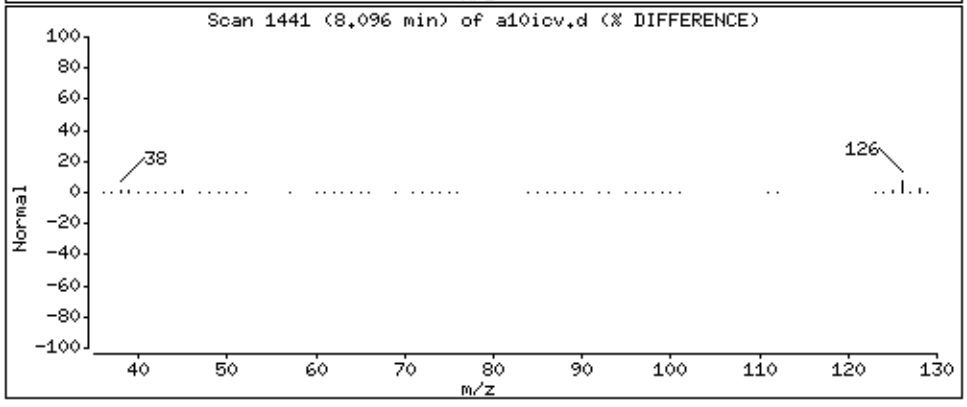












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

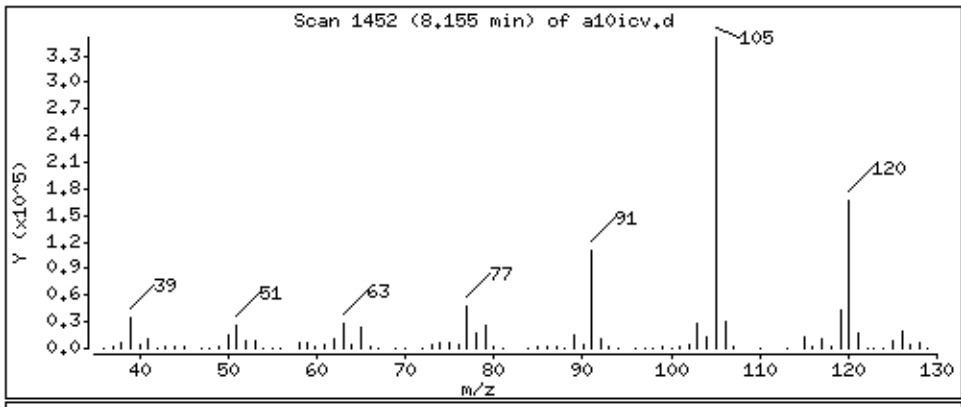
Operator: ala

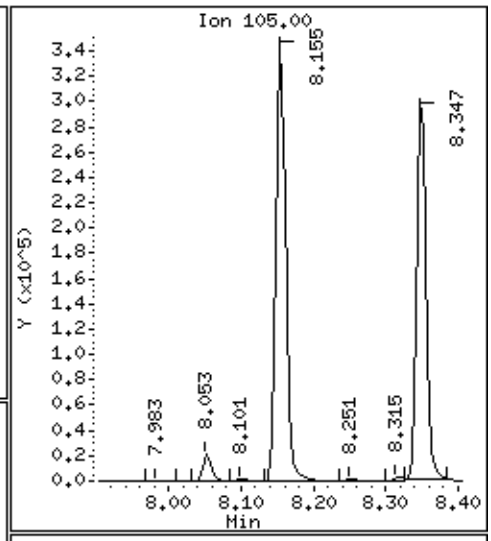
Column phase: DB-624

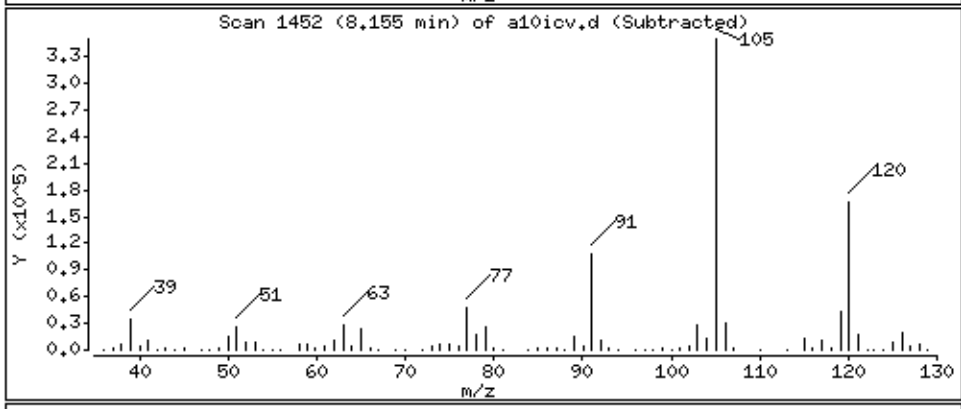
Column diameter: 0.18

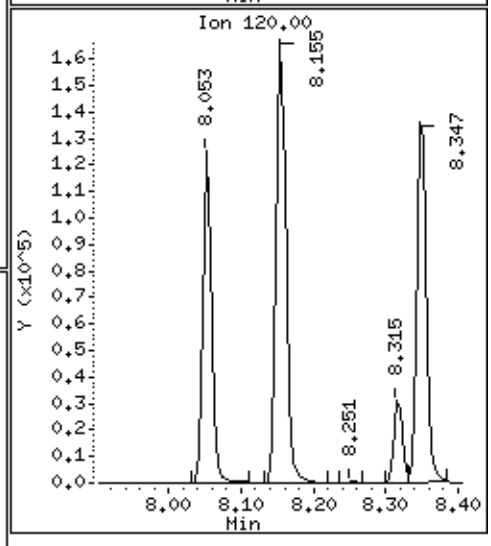
78 1,3,5-Trimethylbenzene

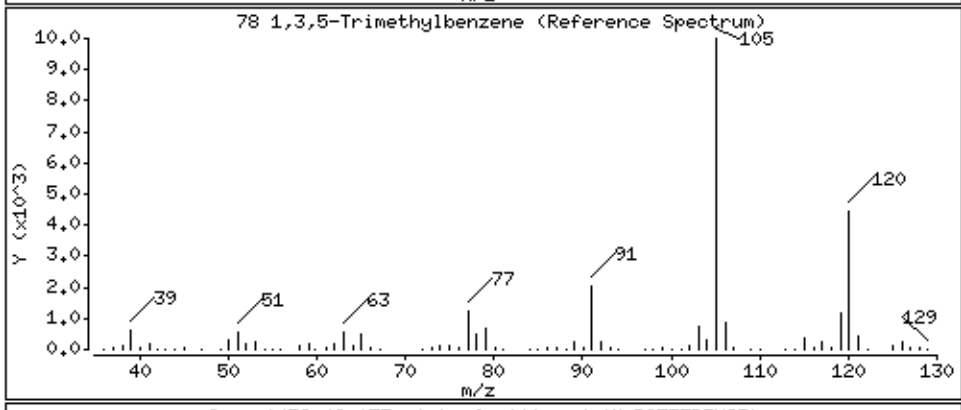
Concentration: 46.6 ppb

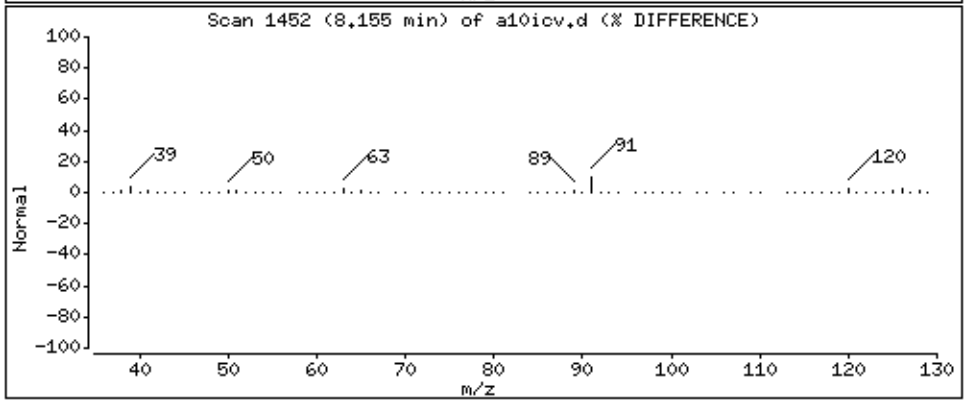












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 81

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

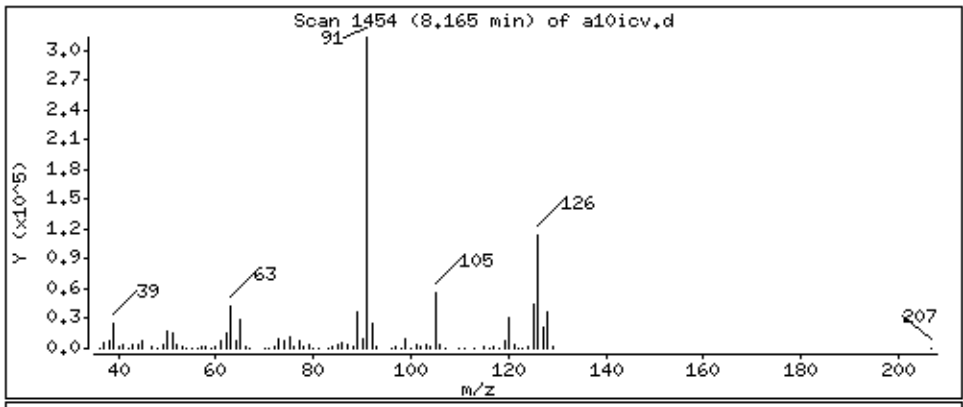
Operator: ala

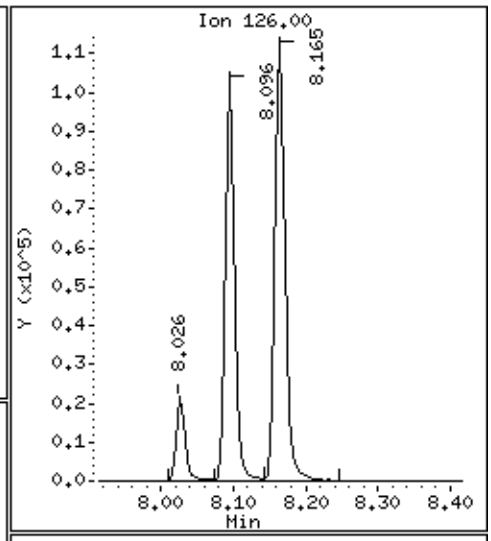
Column phase: DB-624

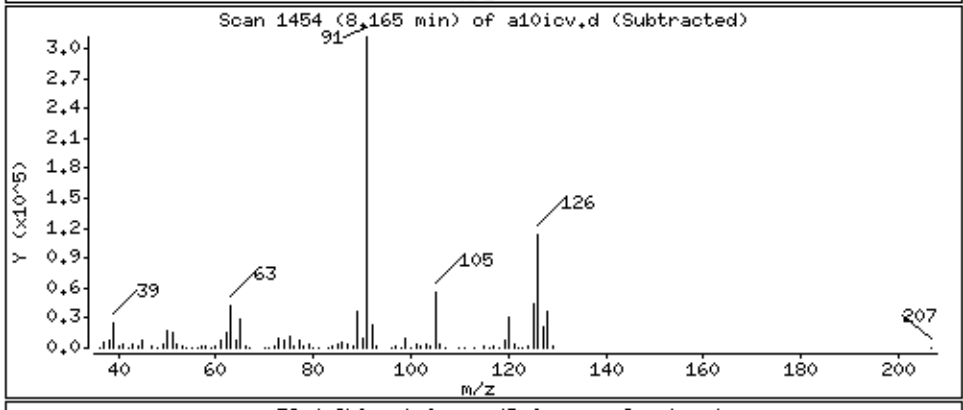
Column diameter: 0.18

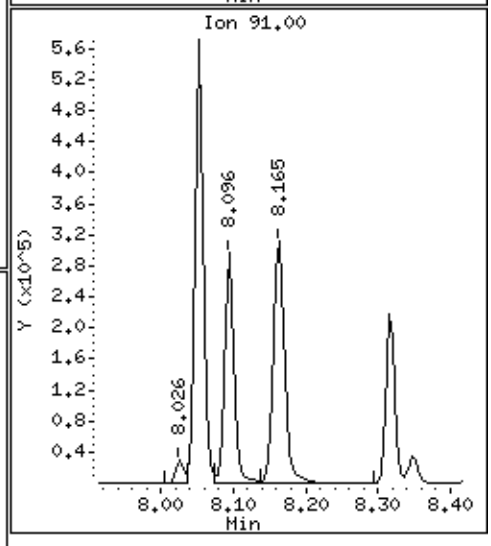
79 4-Chlorotoluene

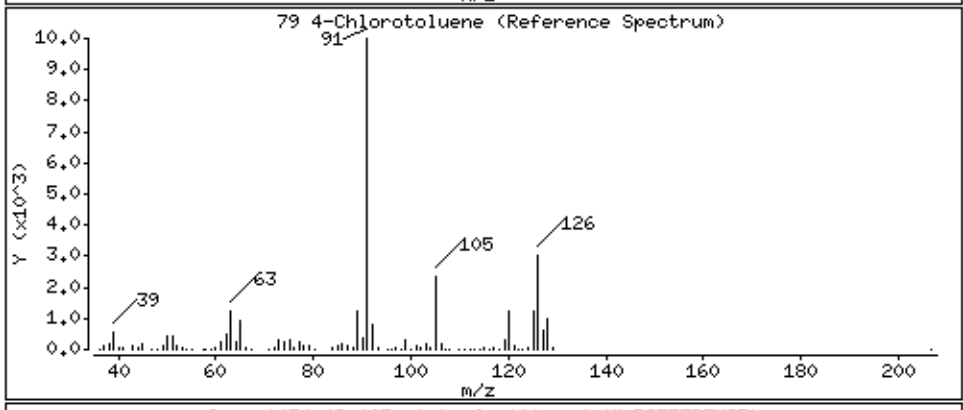
Concentration: 49.0 ppb

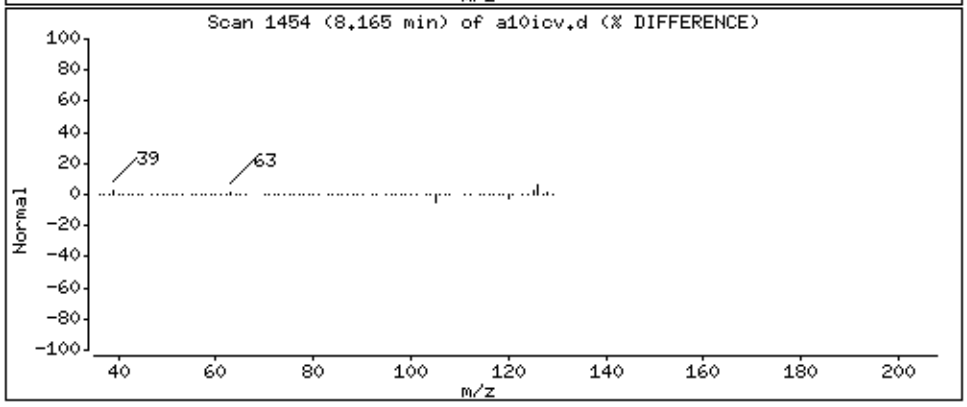












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 82

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

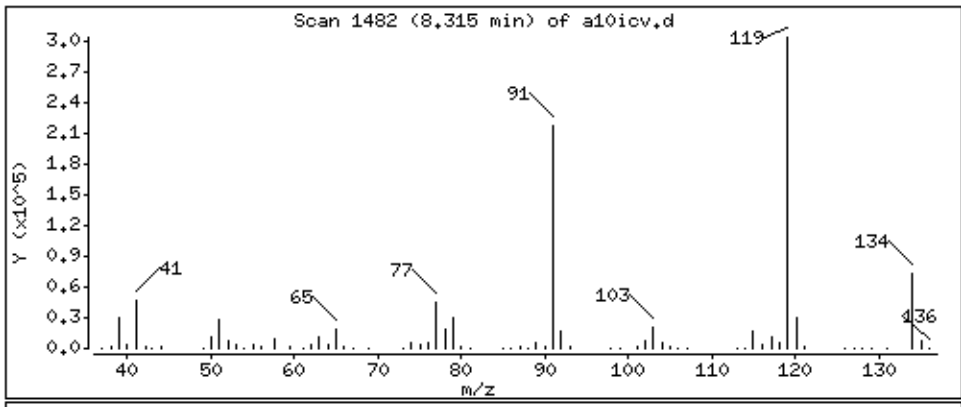
Operator: ala

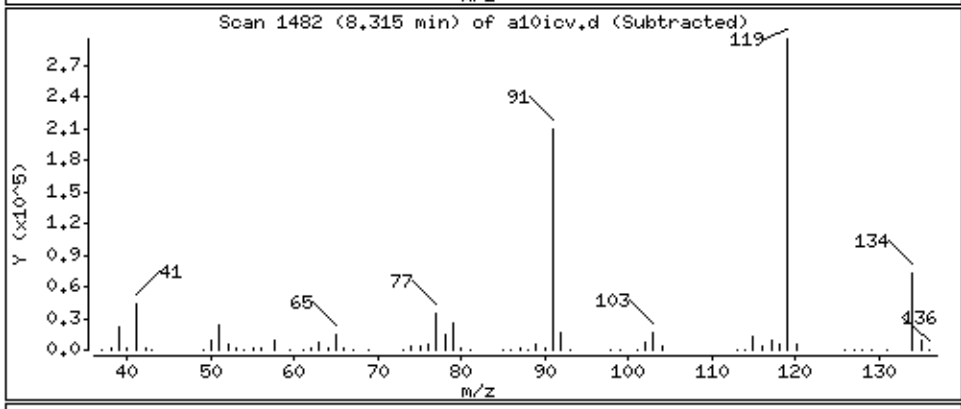
Column phase: DB-624

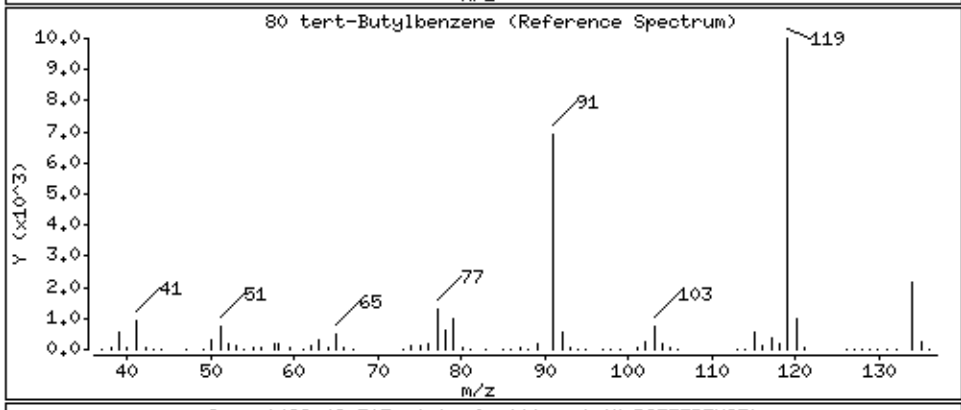
Column diameter: 0.18

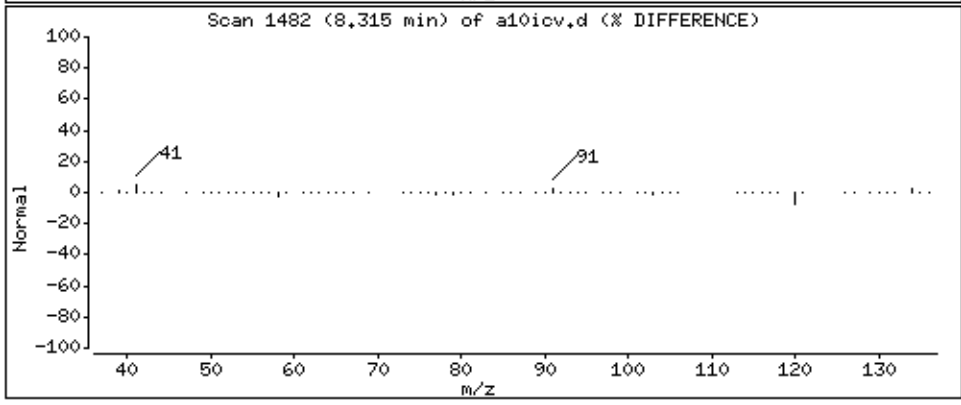
80 tert-Butylbenzene

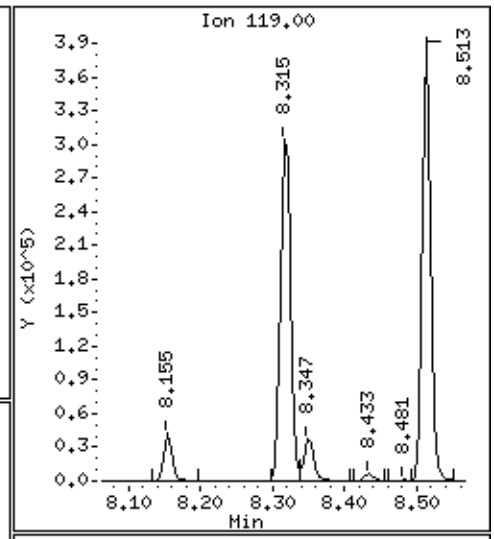
Concentration: 40.7 ppb

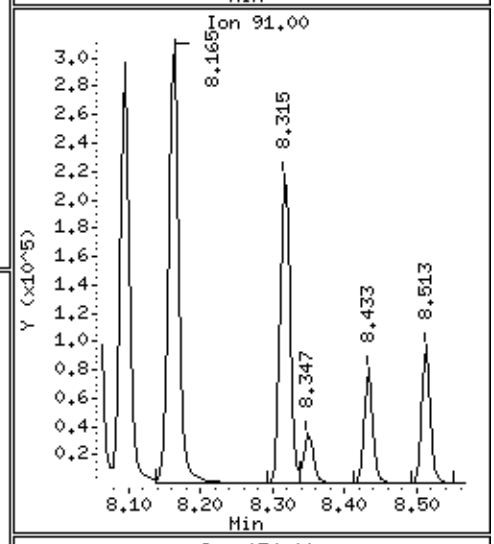


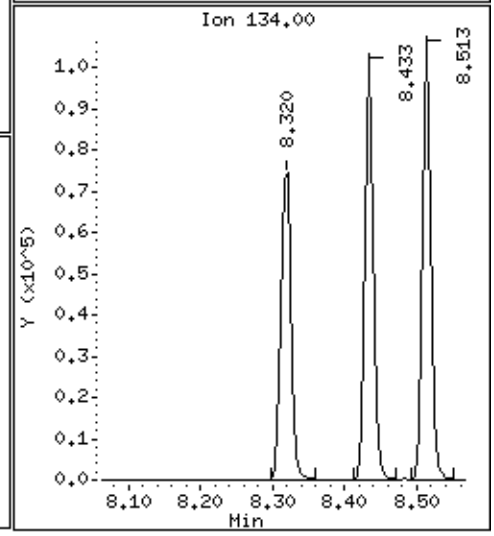












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

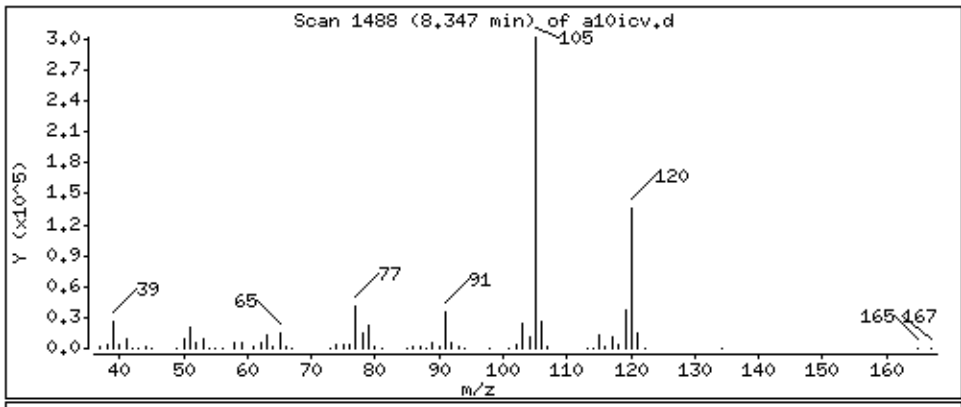
Operator: ala

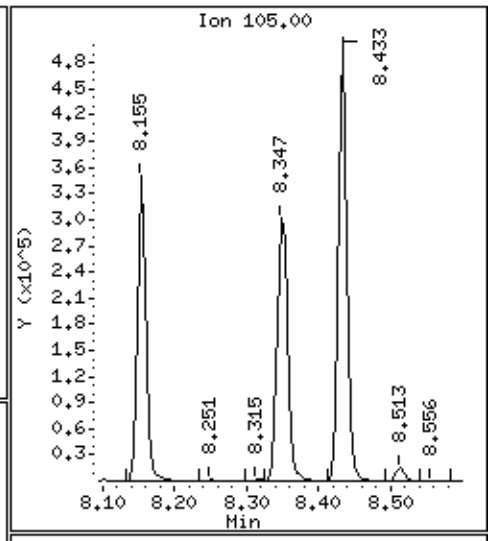
Column phase: DB-624

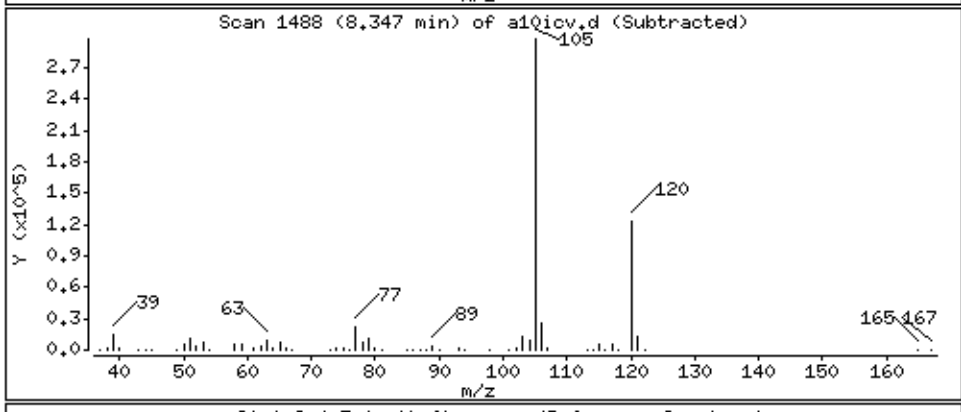
Column diameter: 0.18

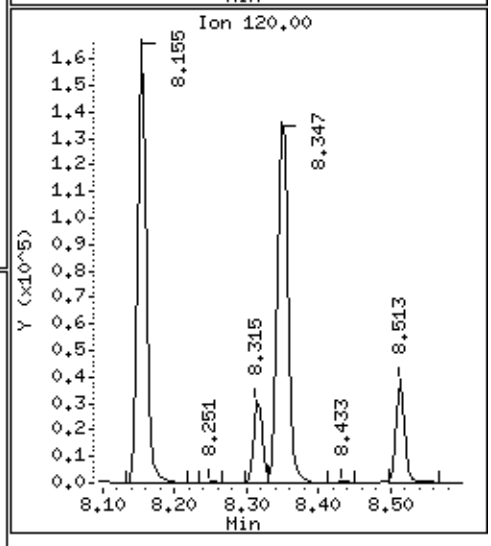
81 1,2,4-Trimethylbenzene

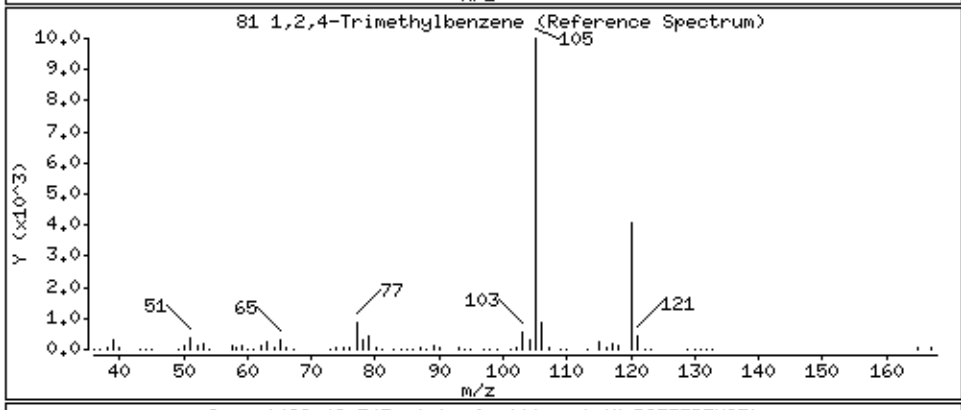
Concentration: 45.9 ppb

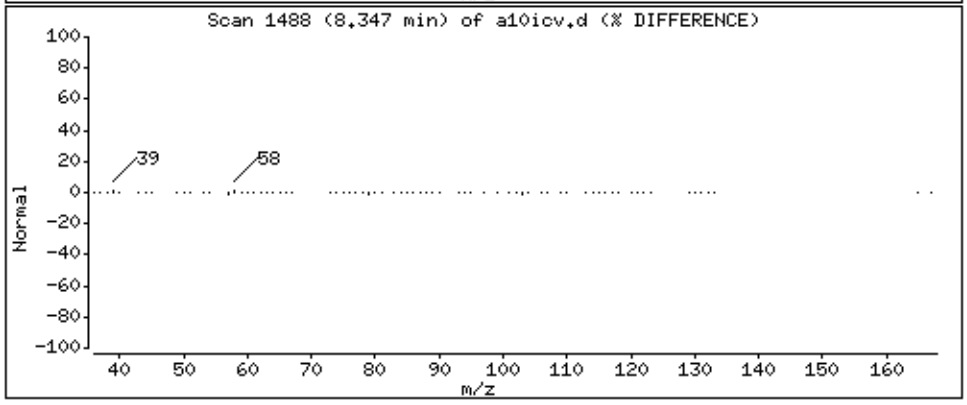












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

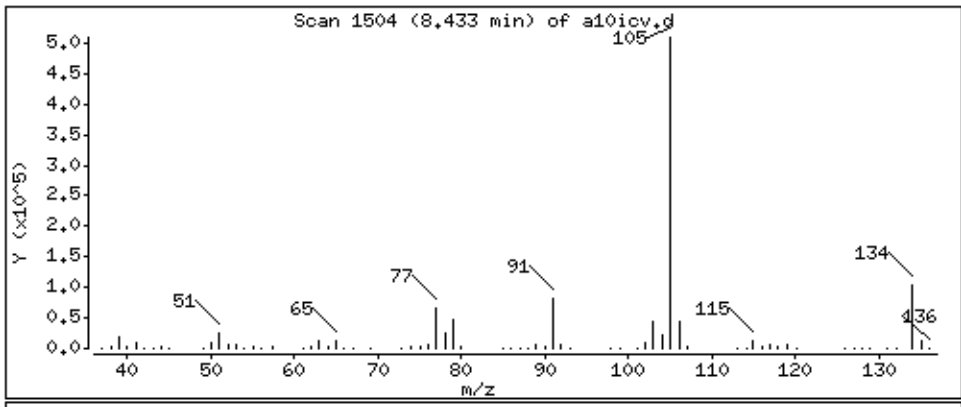
Operator: ala

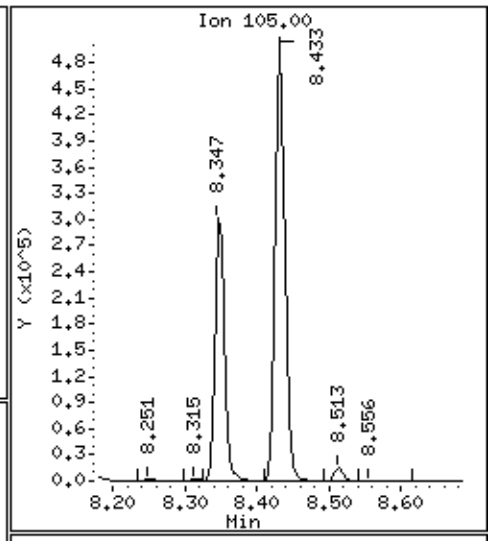
Column phase: DB-624

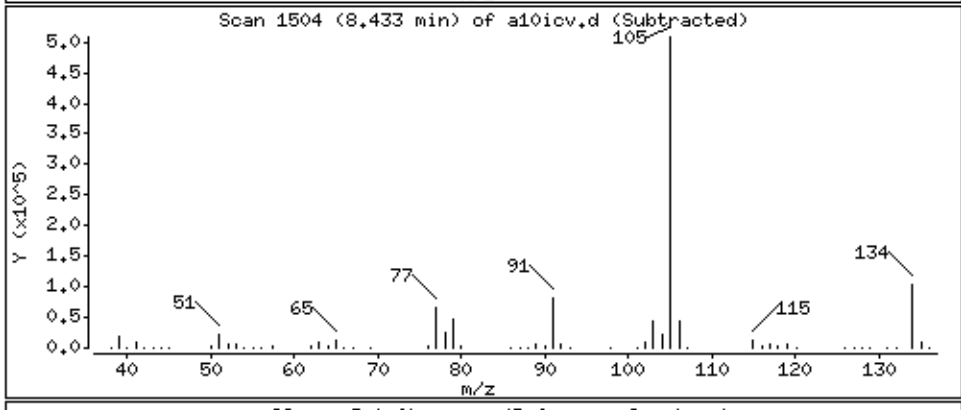
Column diameter: 0.18

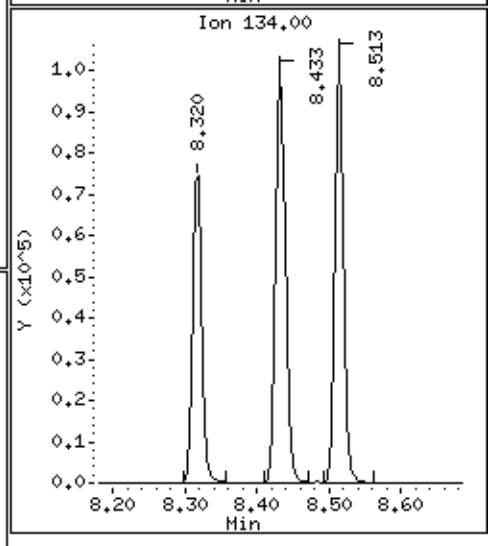
82 sec-Butylbenzene

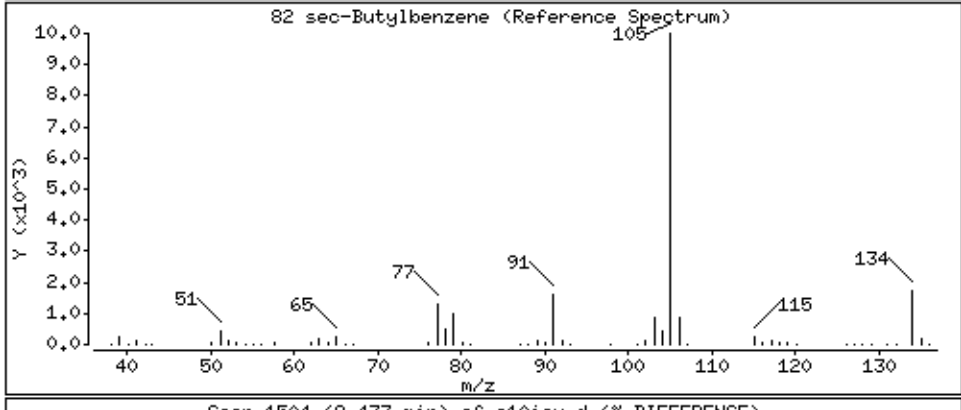
Concentration: 50.6 ppb

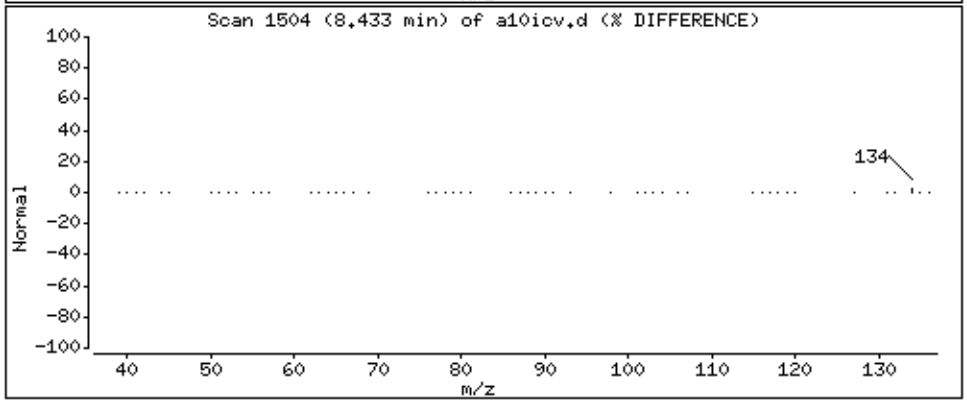












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

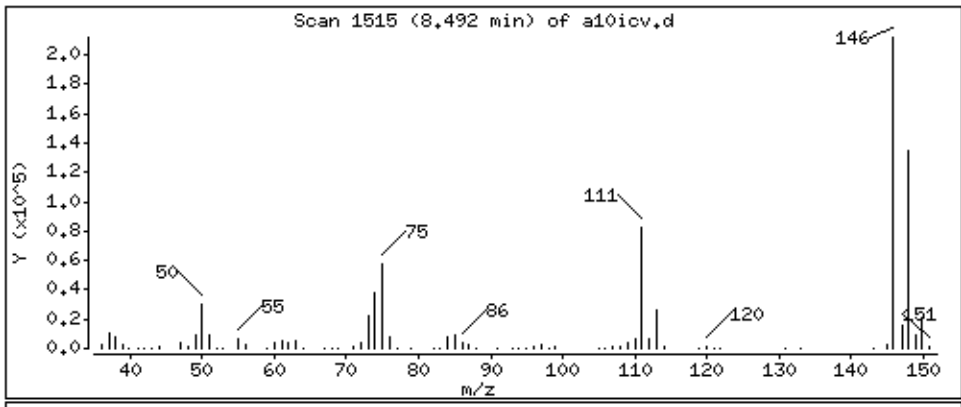
Operator: ala

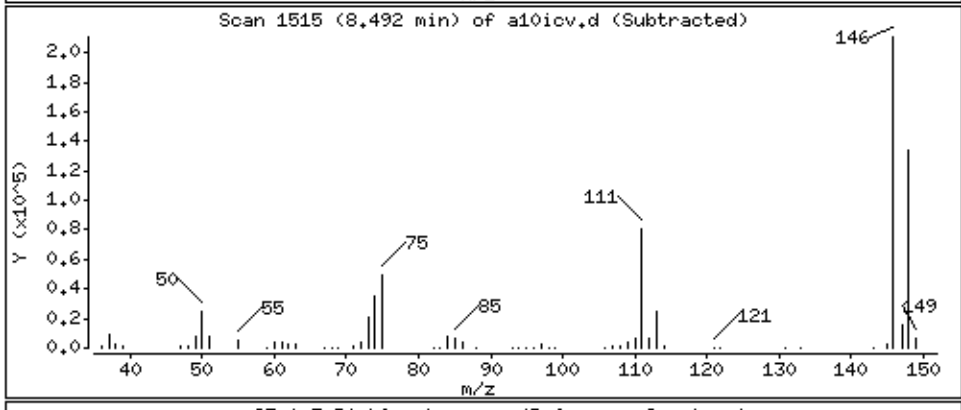
Column phase: DB-624

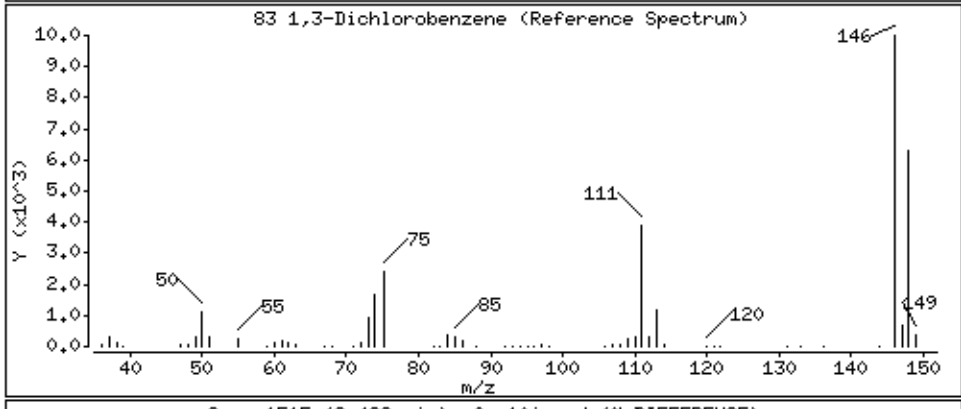
Column diameter: 0.18

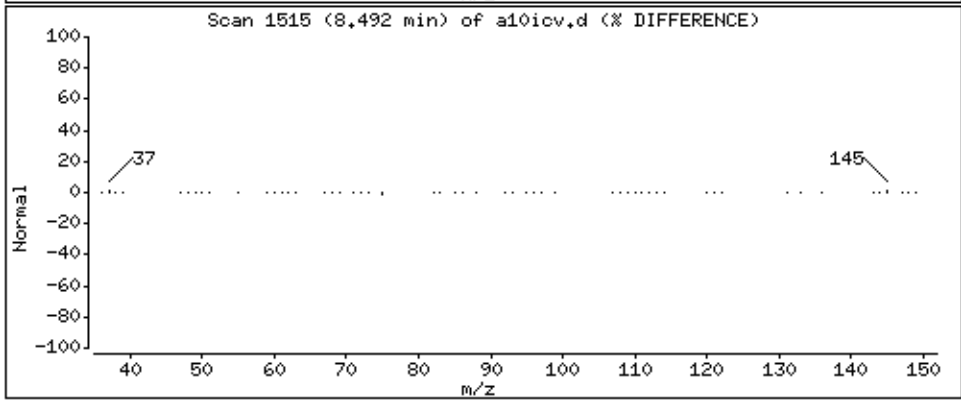
83 1,3-Dichlorobenzene

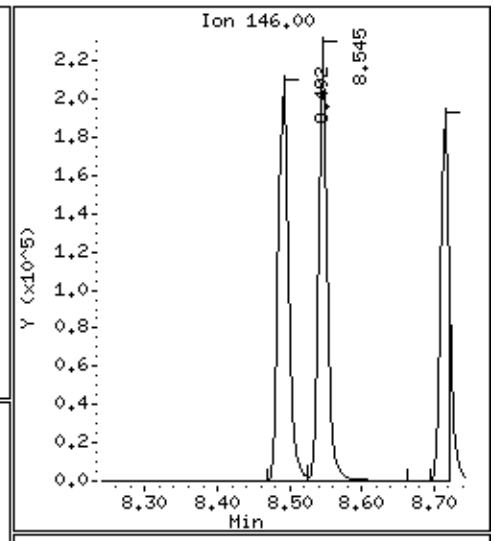
Concentration: 48.2 ppb

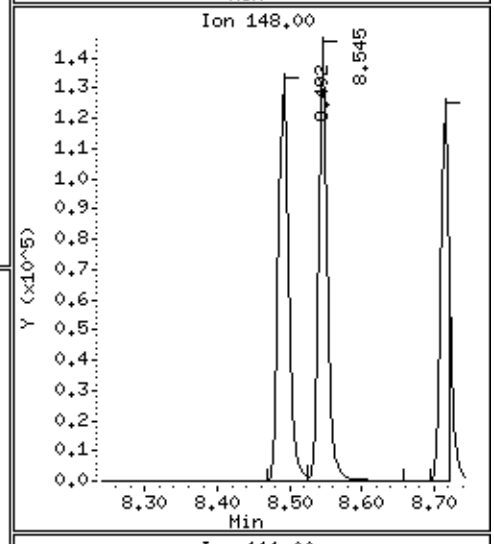


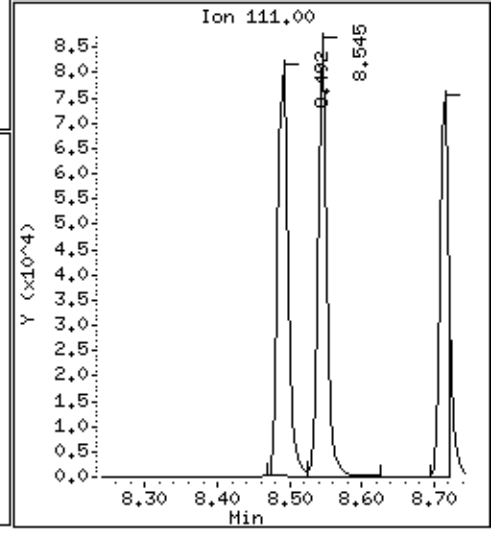












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

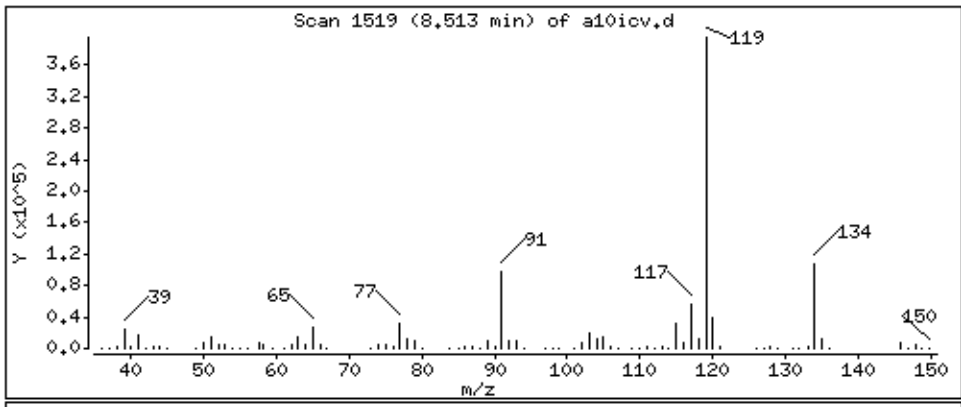
Operator: ala

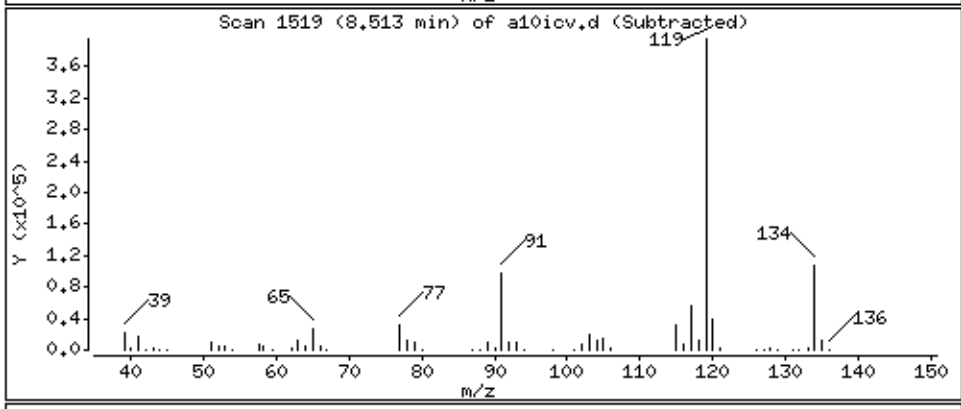
Column phase: DB-624

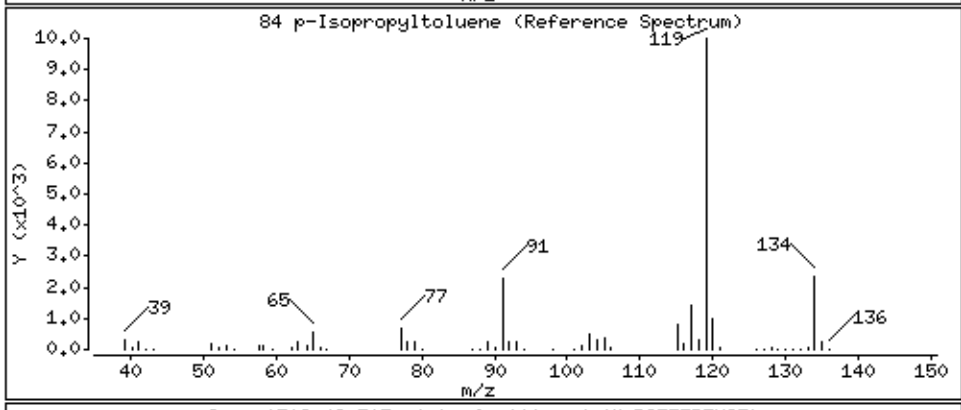
Column diameter: 0.18

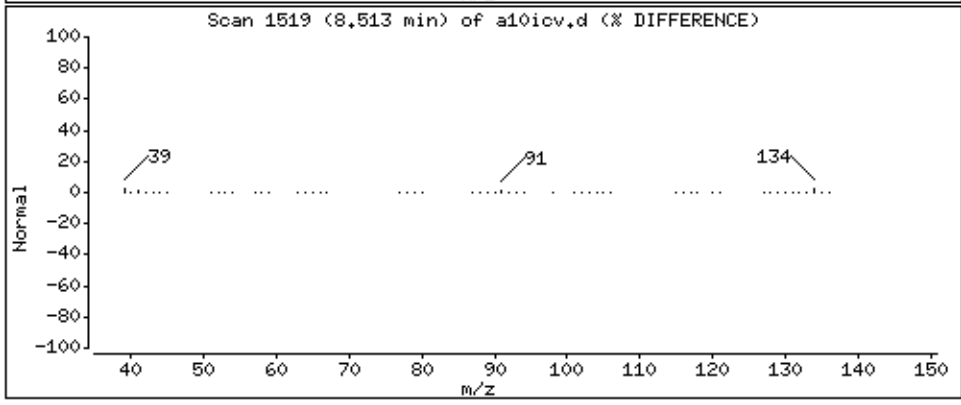
84 p-Isopropyltoluene

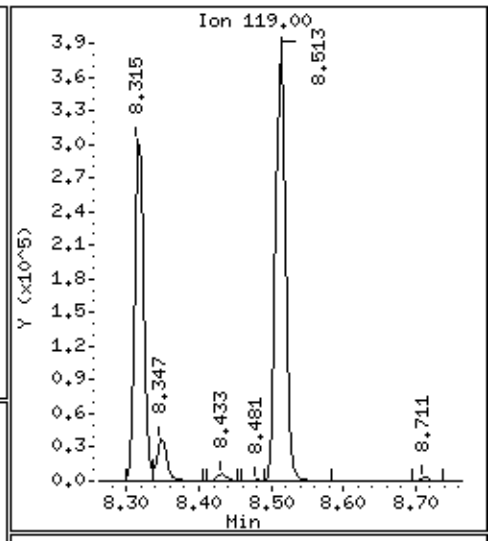
Concentration: 47.7 ppb

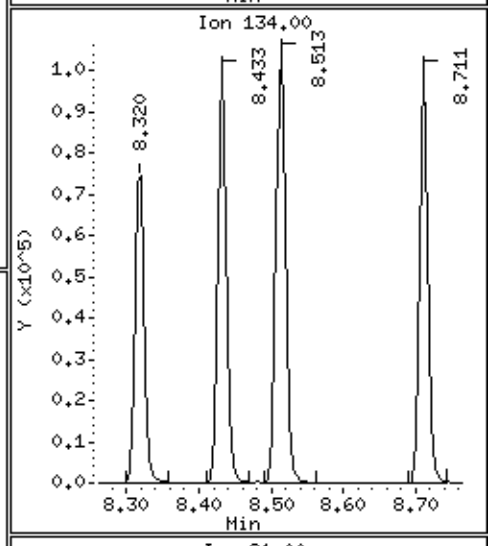


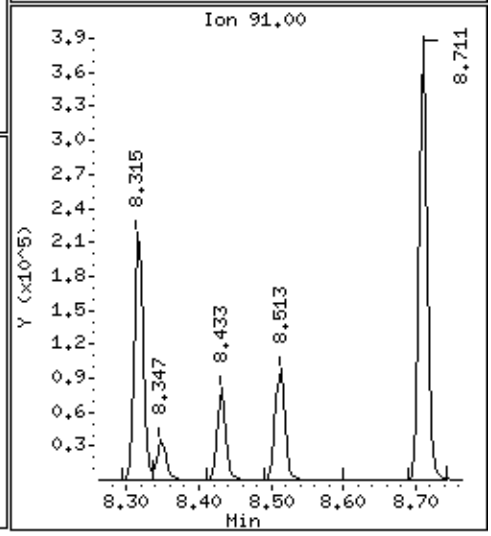












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

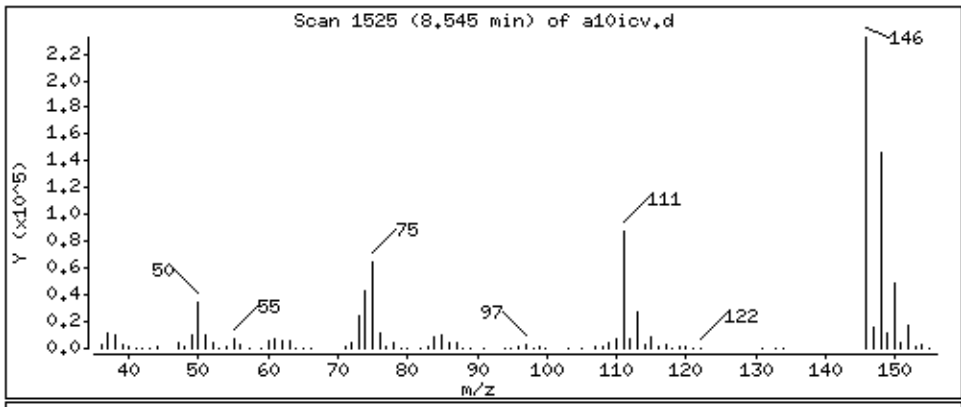
Operator: ala

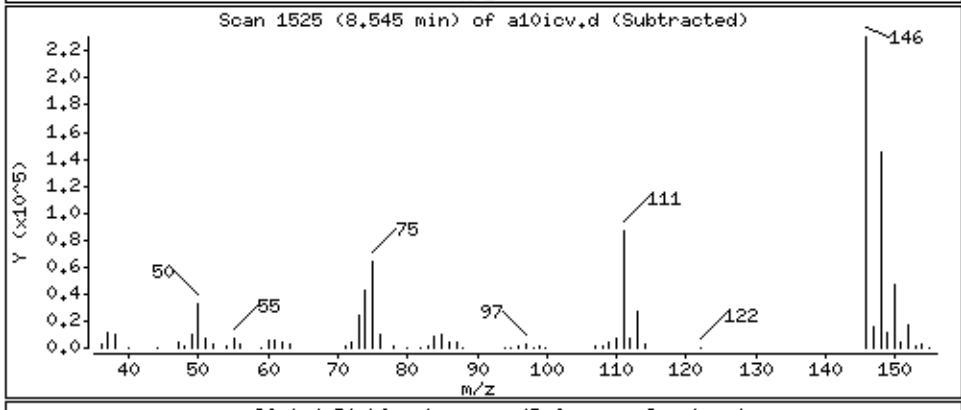
Column phase: DB-624

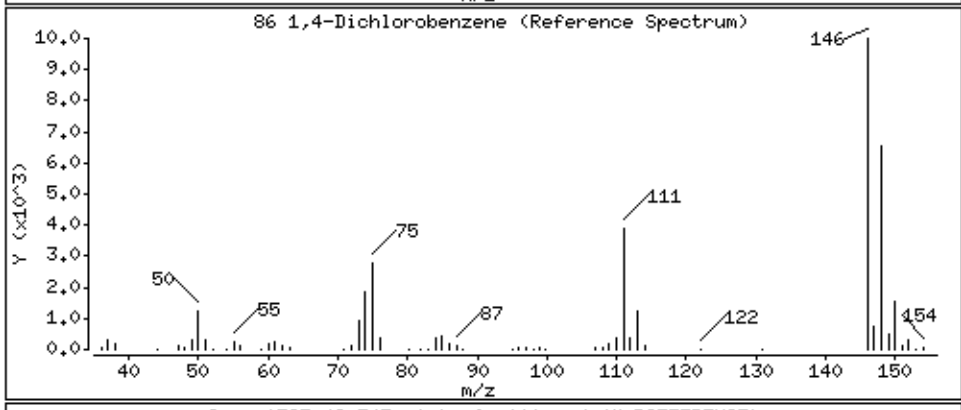
Column diameter: 0.18

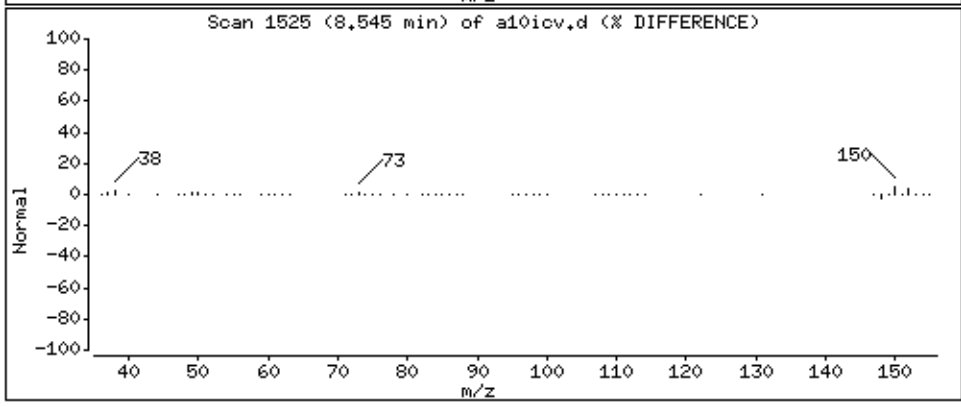
86 1,4-Dichlorobenzene

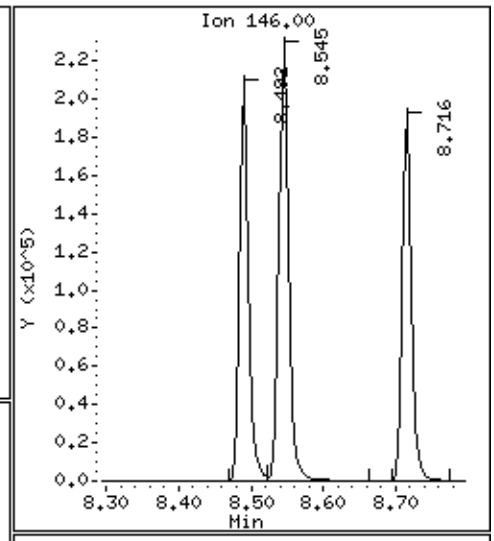
Concentration: 48.7 ppb

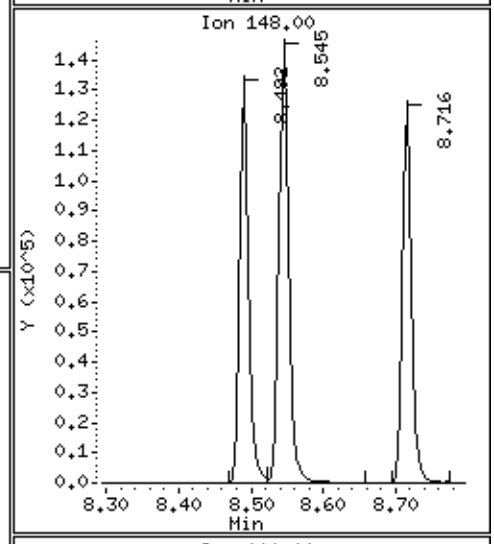


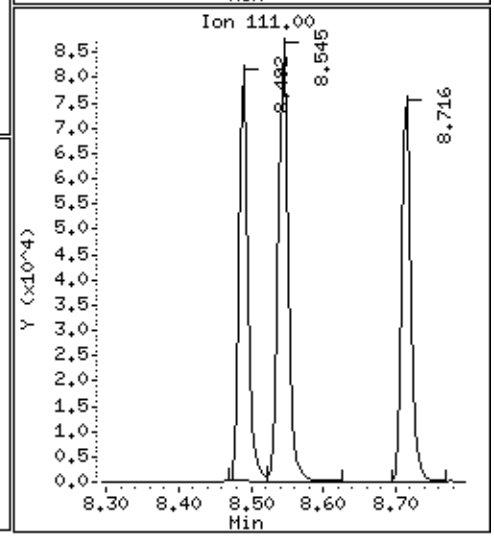












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

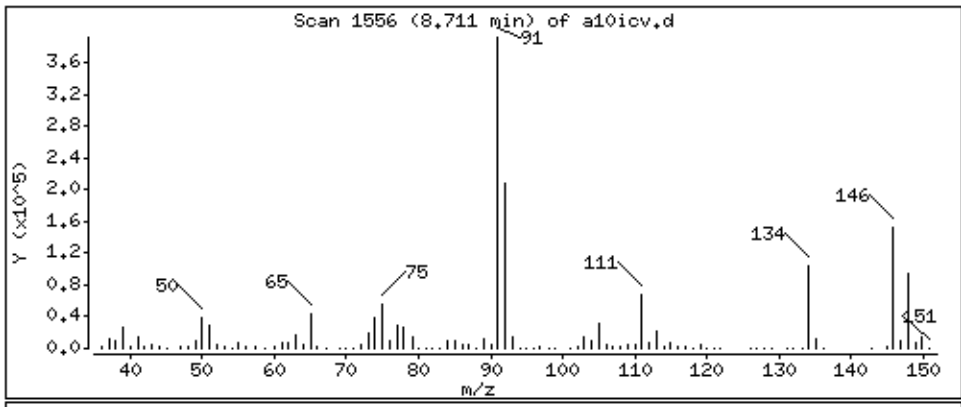
Operator: ala

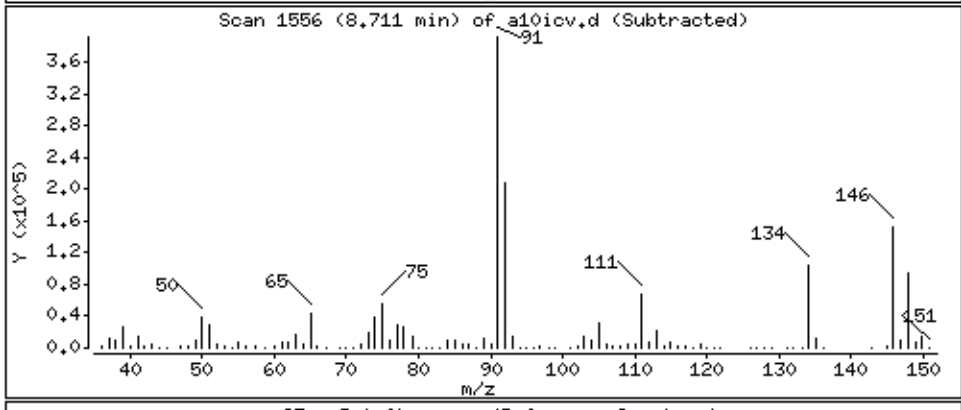
Column phase: DB-624

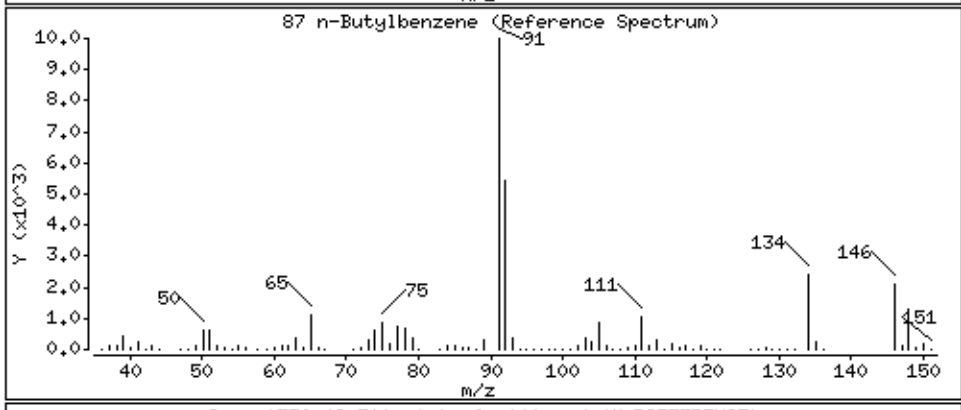
Column diameter: 0.18

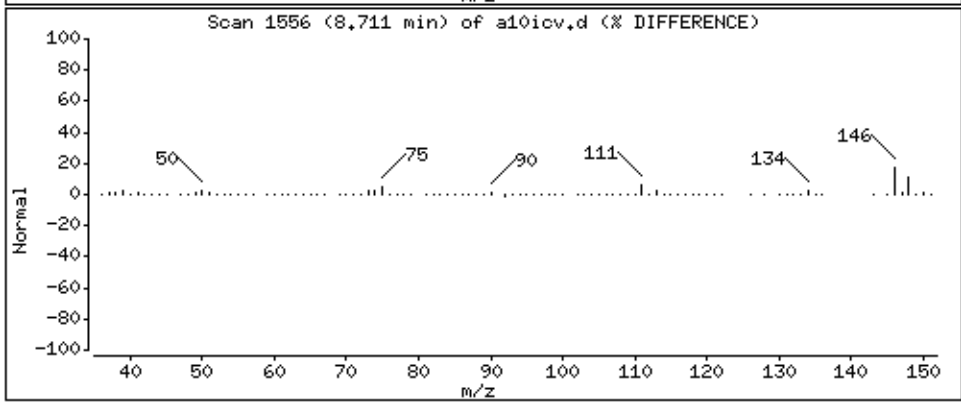
87 n-Butylbenzene

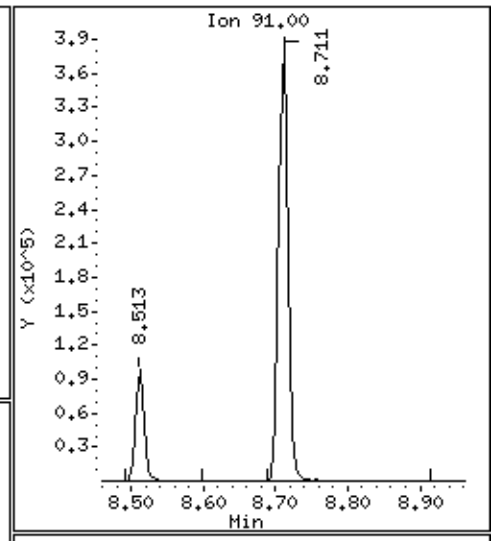
Concentration: 46.2 ppb

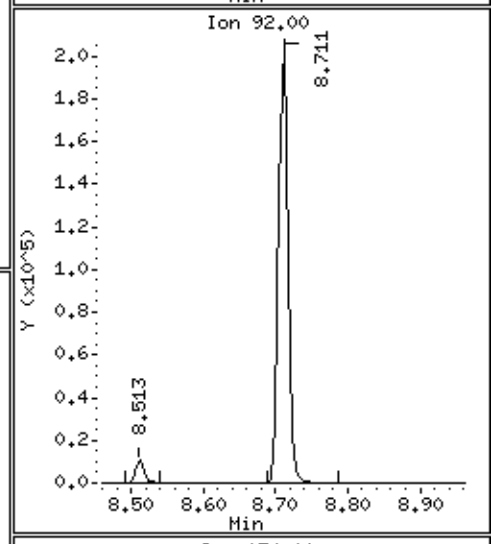


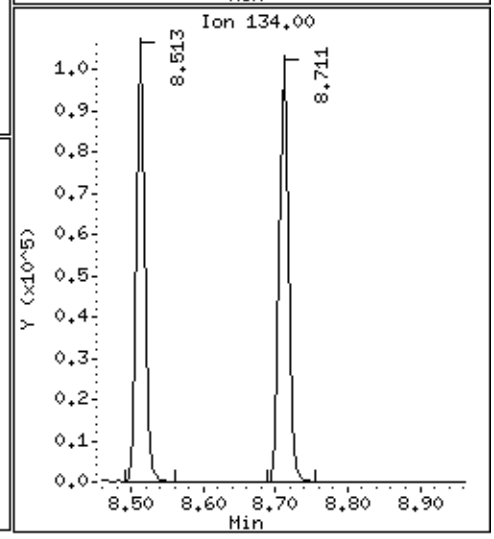












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

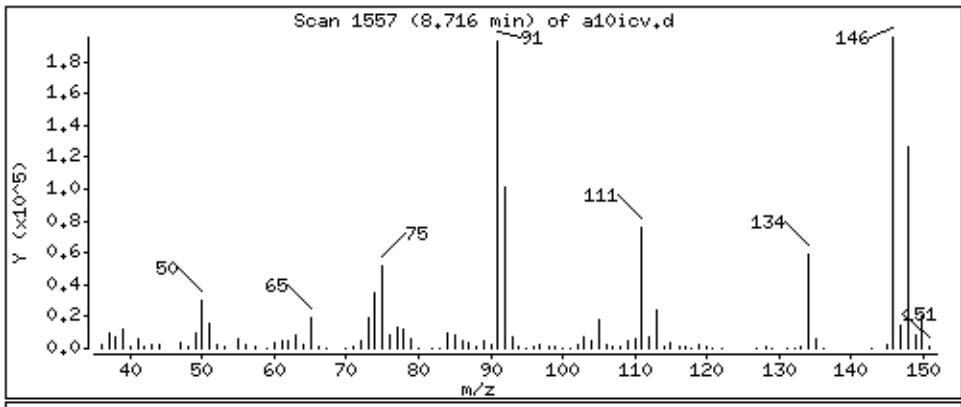
Operator: ala

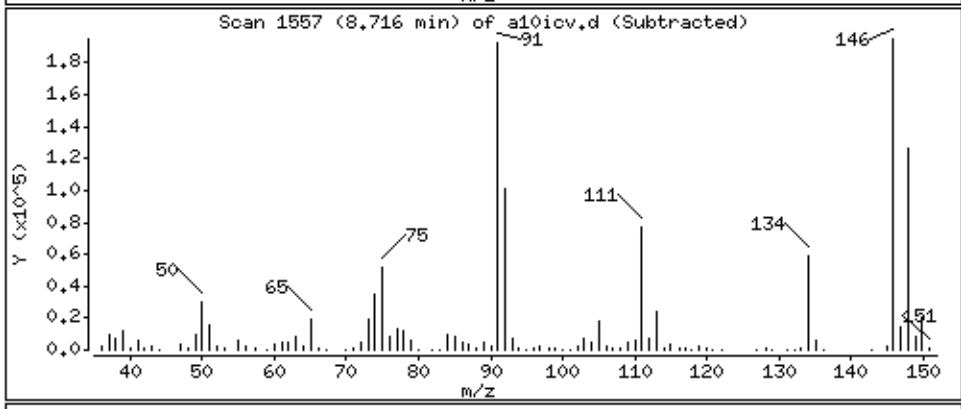
Column phase: DB-624

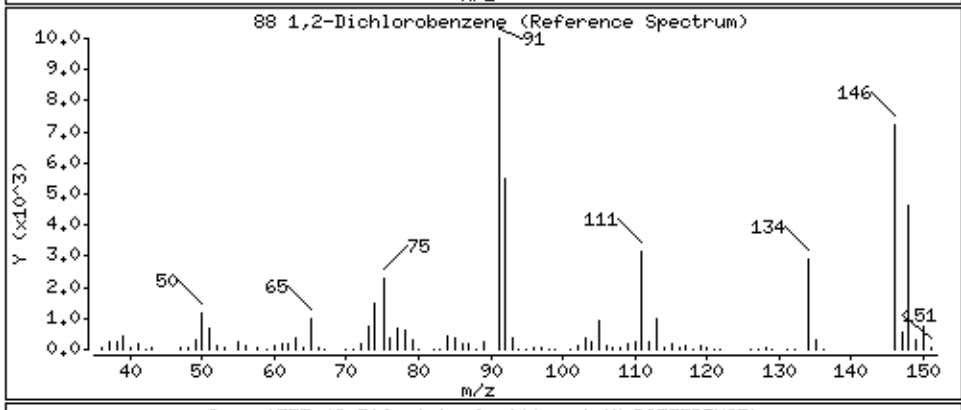
Column diameter: 0.18

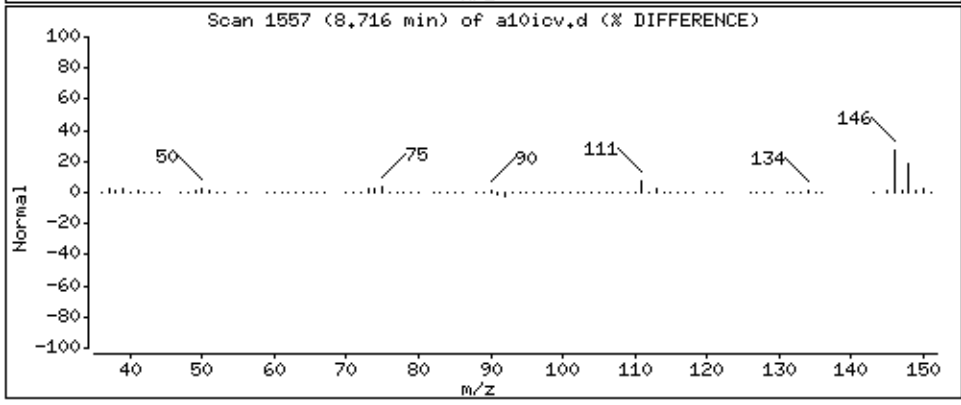
88 1,2-Dichlorobenzene

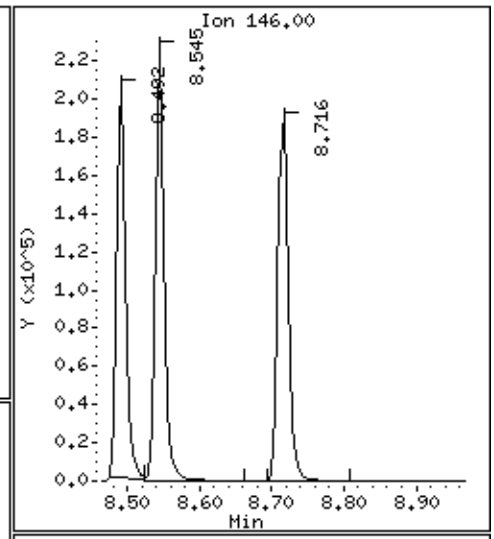
Concentration: 46.7 ppb

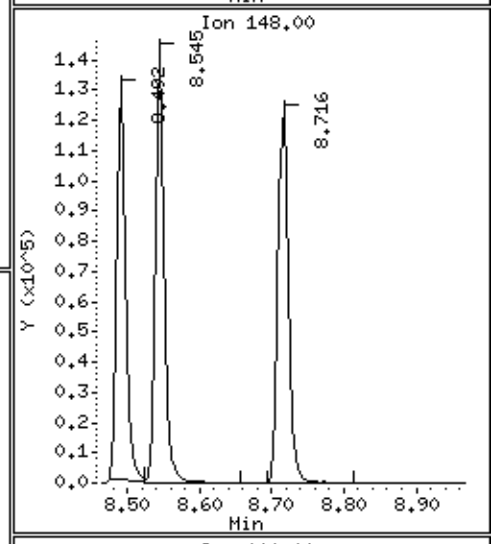


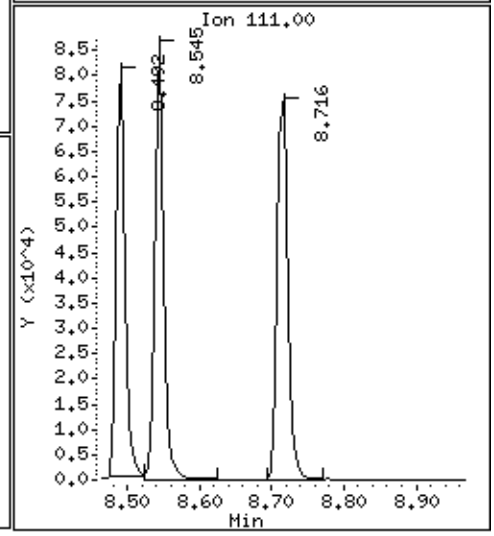












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

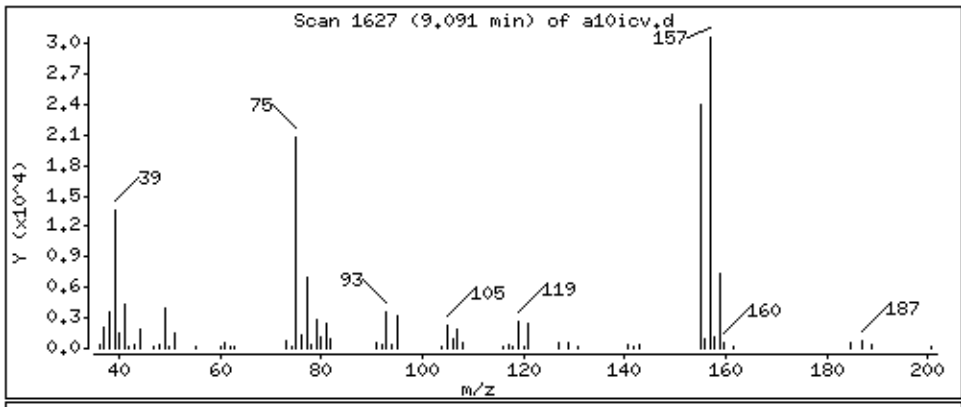
Operator: ala

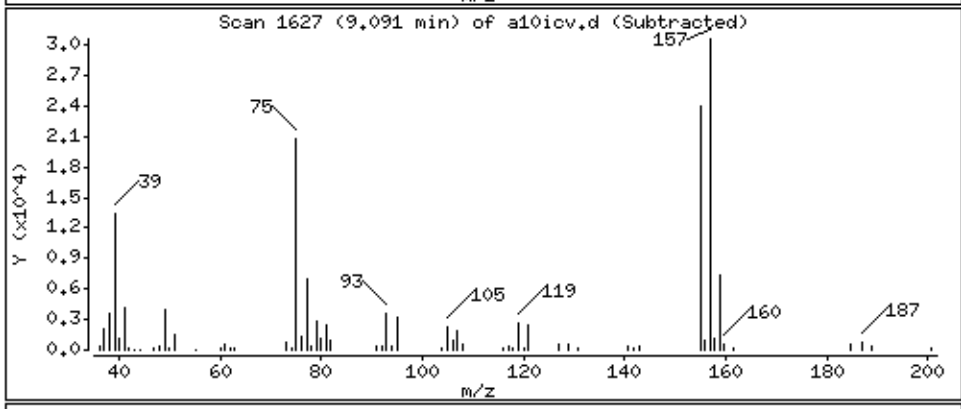
Column phase: DB-624

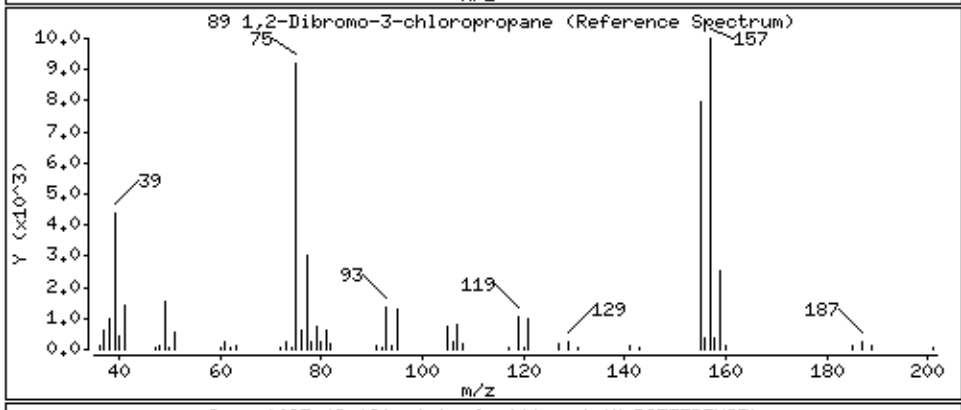
Column diameter: 0.18

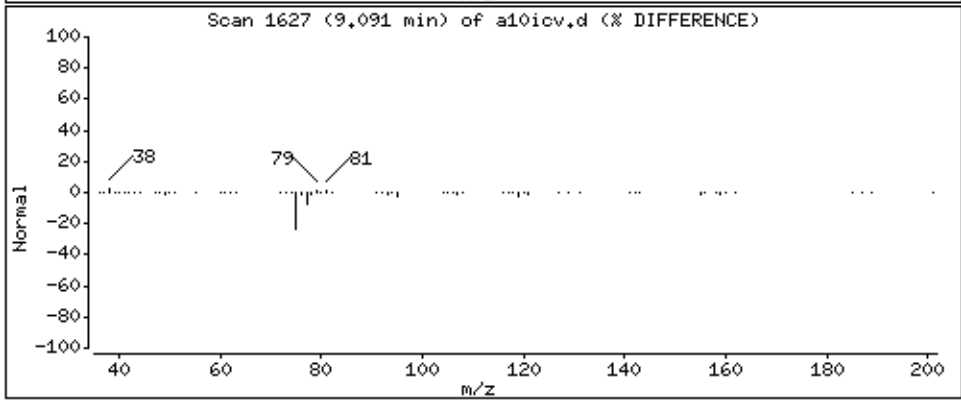
89 1,2-Dibromo-3-chloropropane

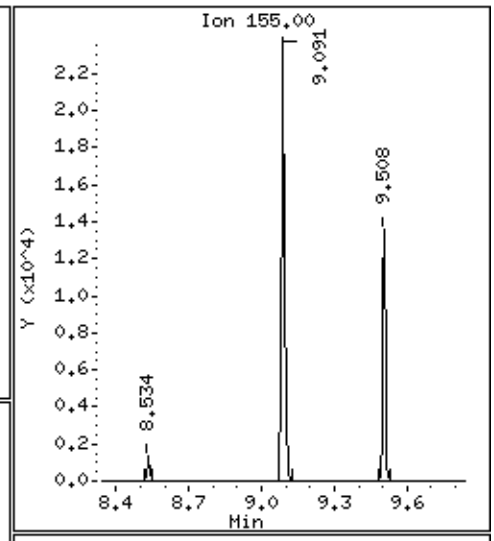
Concentration: 46.4 ppb

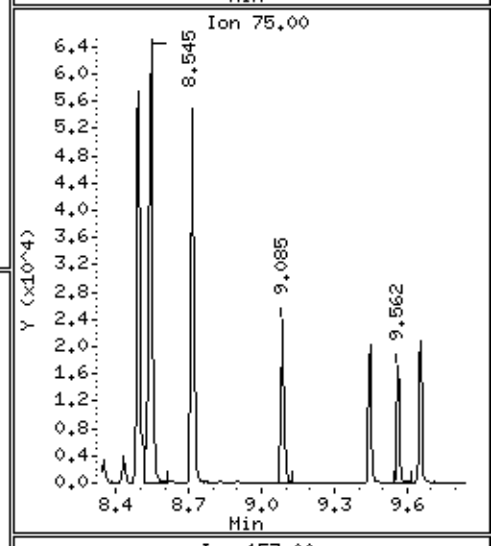


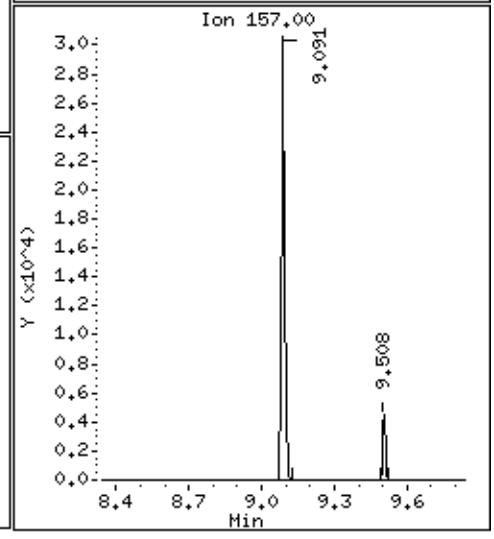












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

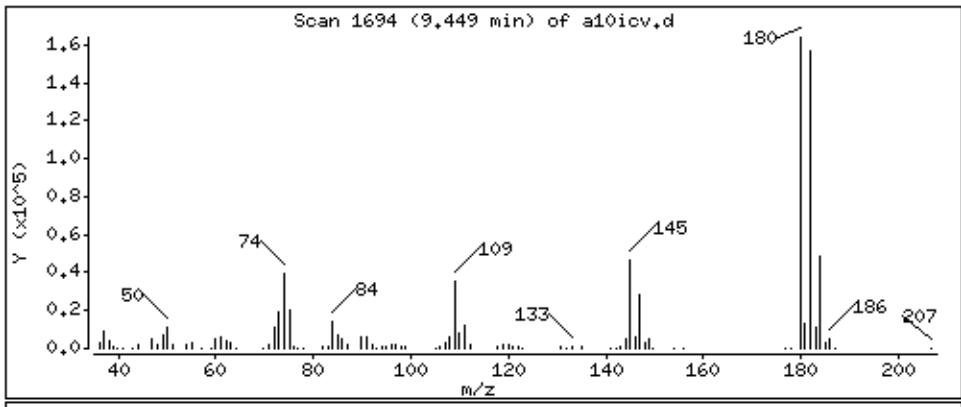
Operator: ala

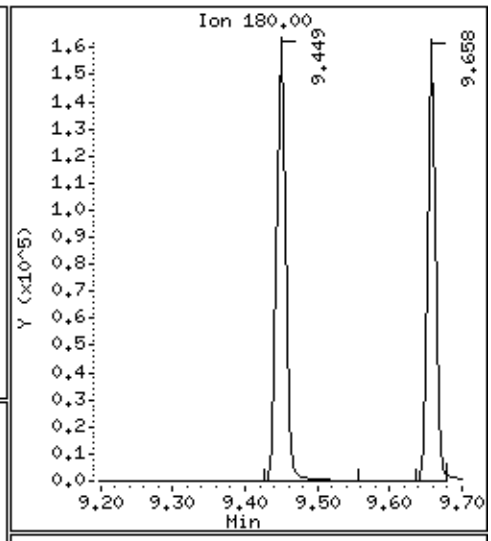
Column phase: DB-624

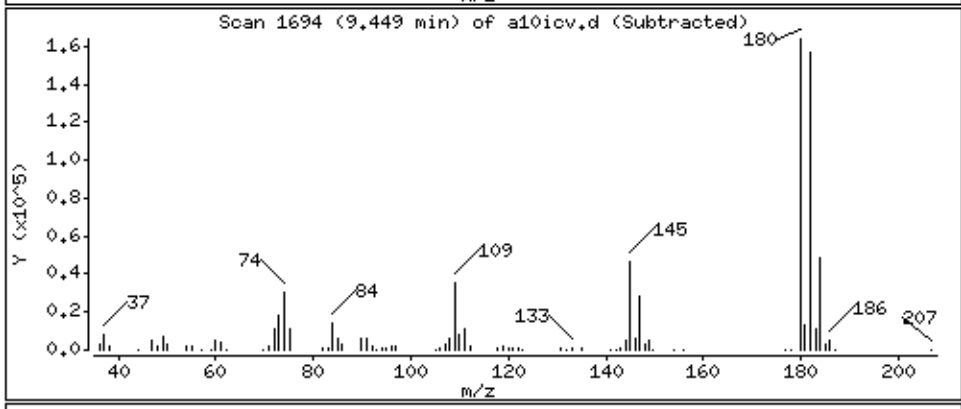
Column diameter: 0.18

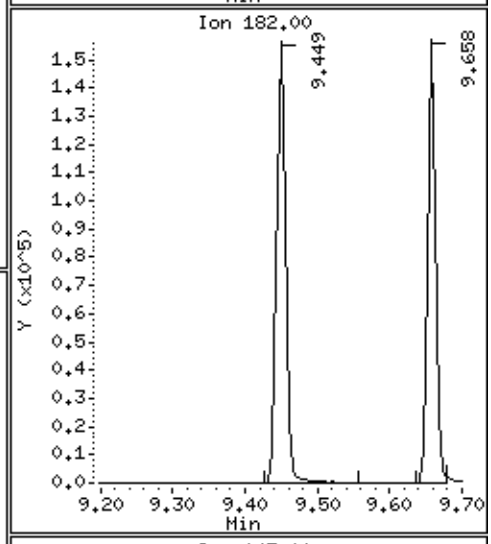
90 1,2,4-Trichlorobenzene

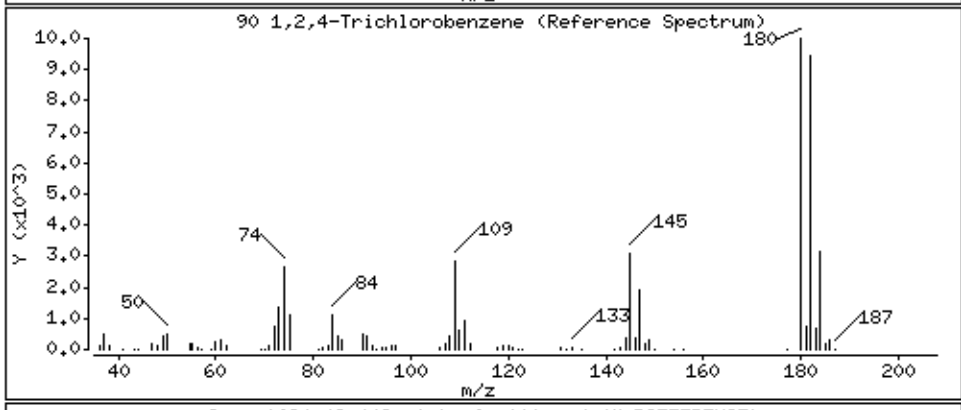
Concentration: 45.2 ppb

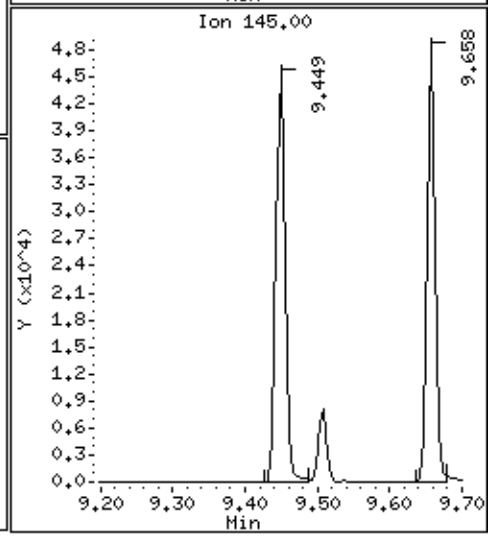


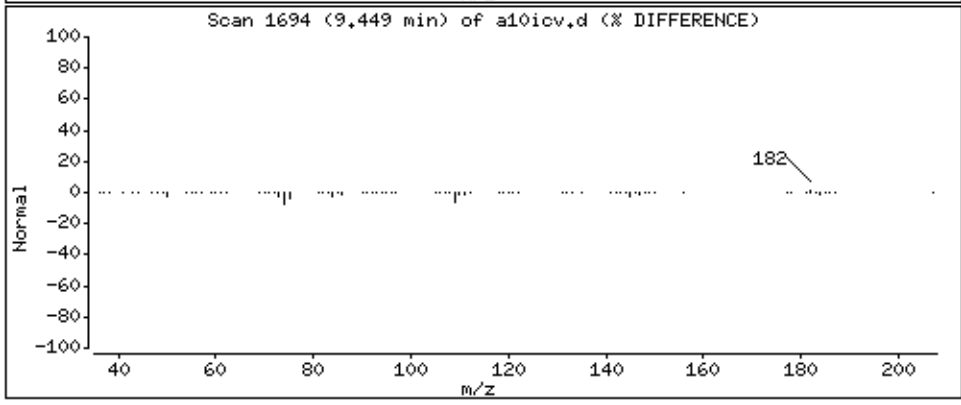












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

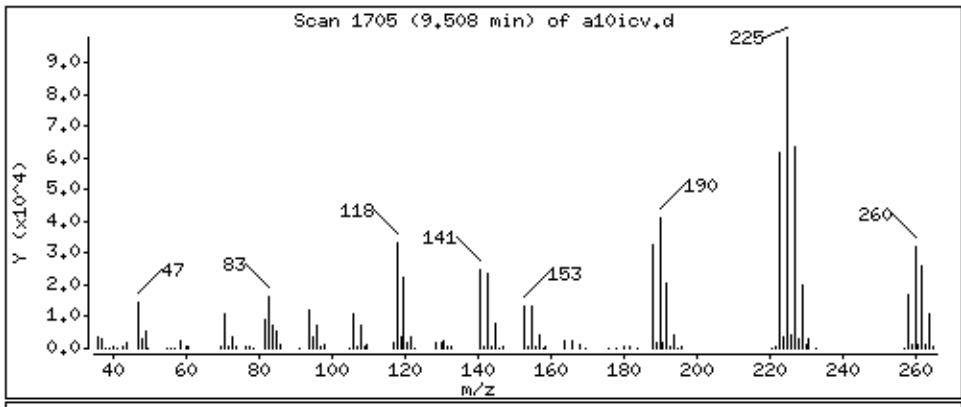
Operator: ala

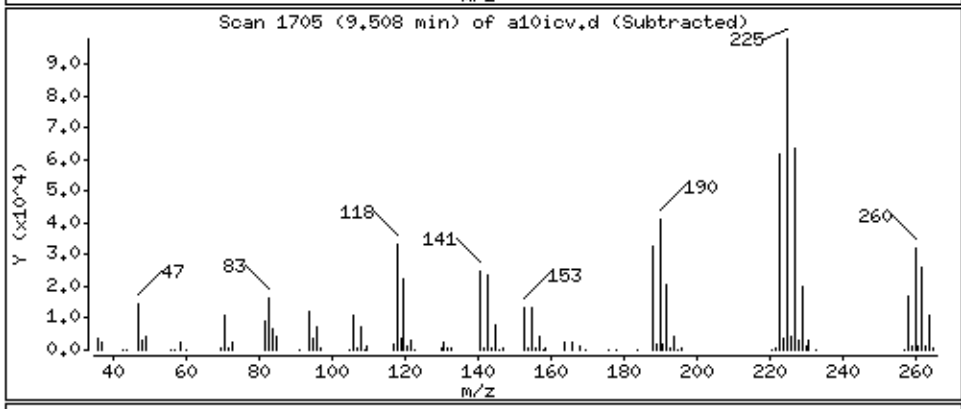
Column phase: DB-624

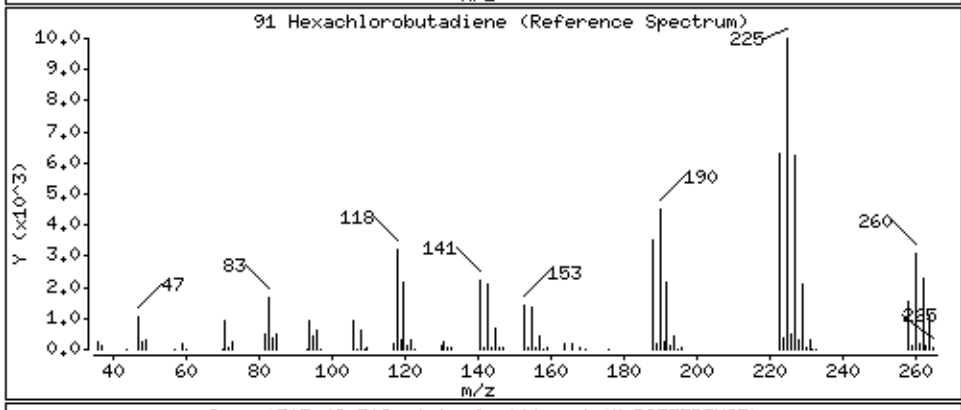
Column diameter: 0.18

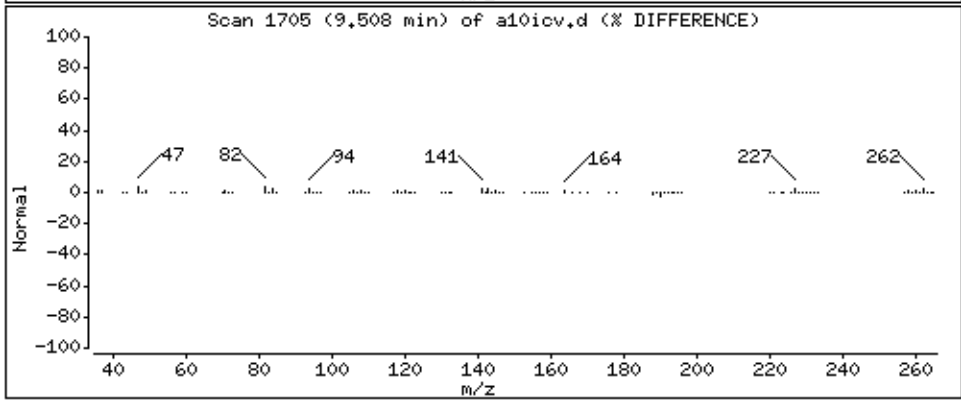
91 Hexachlorobutadiene

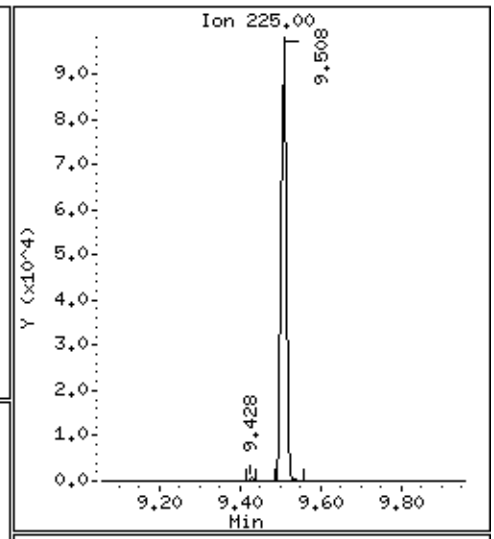
Concentration: 44.8 ppb

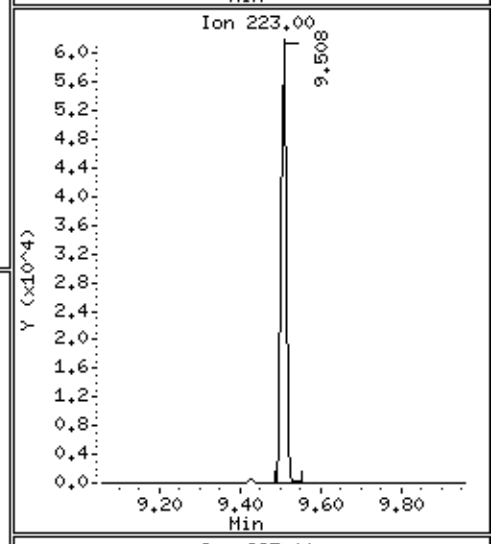


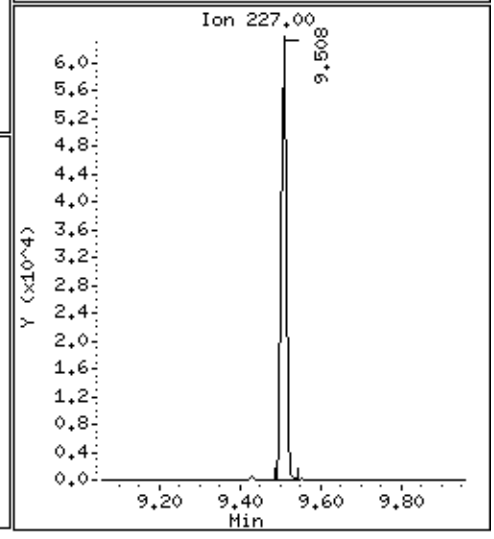












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Page 93

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

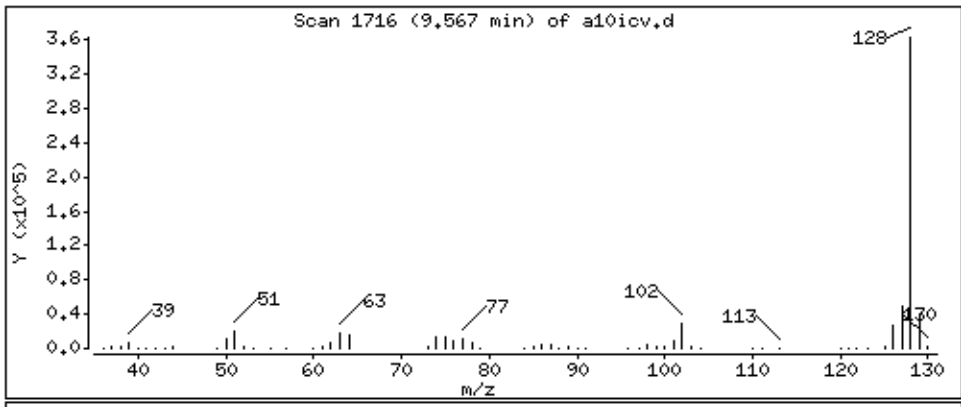
Operator: ala

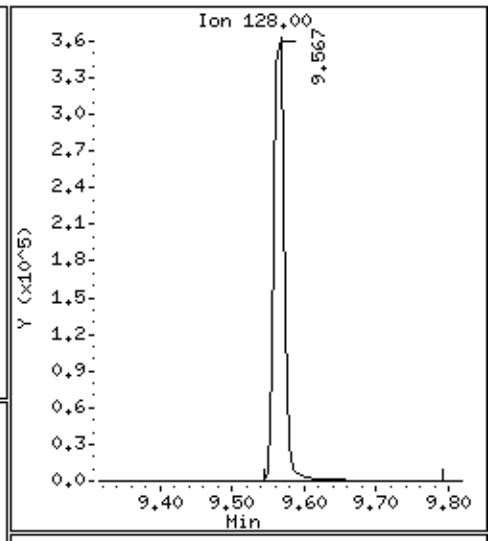
Column phase: DB-624

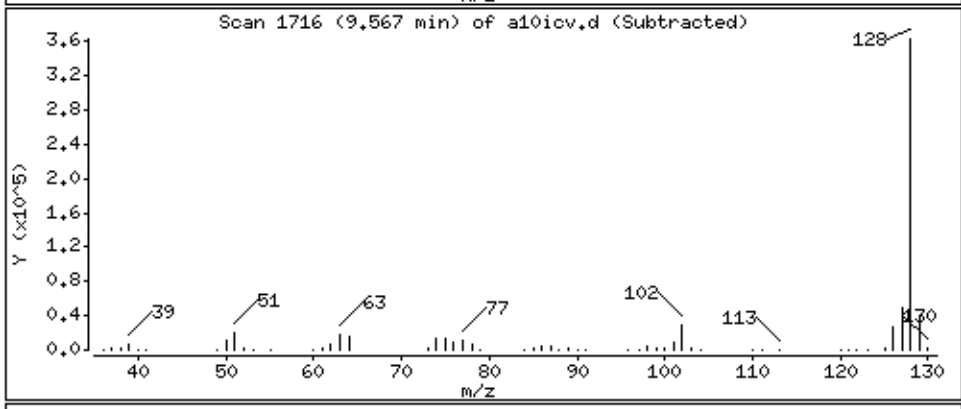
Column diameter: 0.18

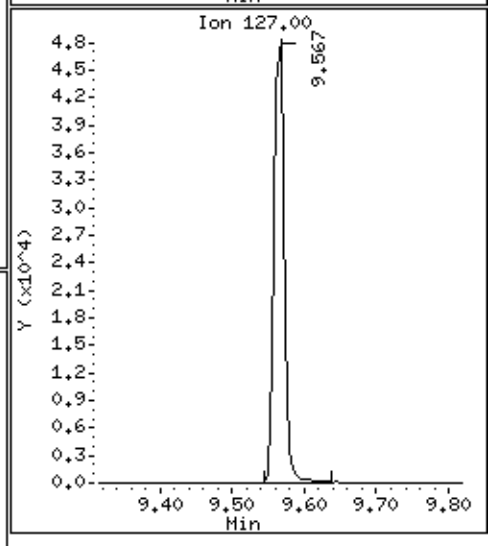
92 Naphthalene

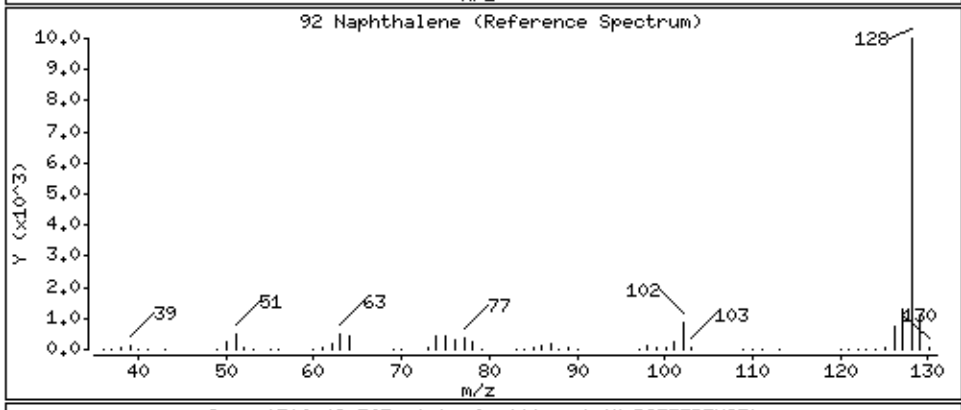
Concentration: 43.0 ppb

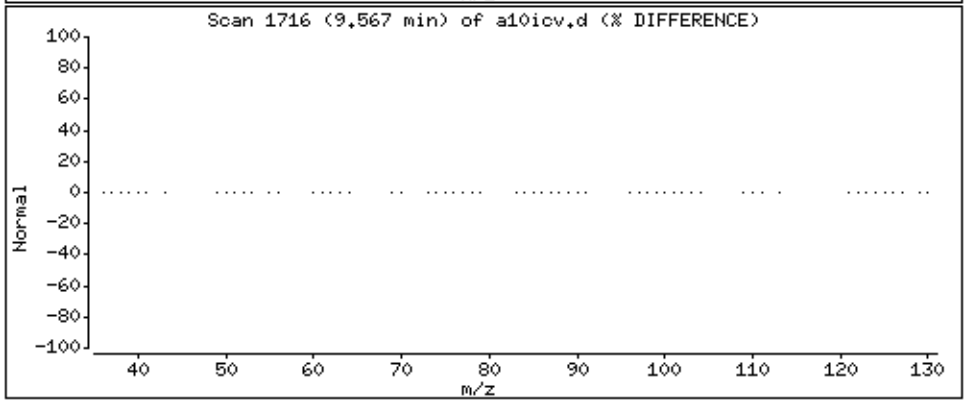












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

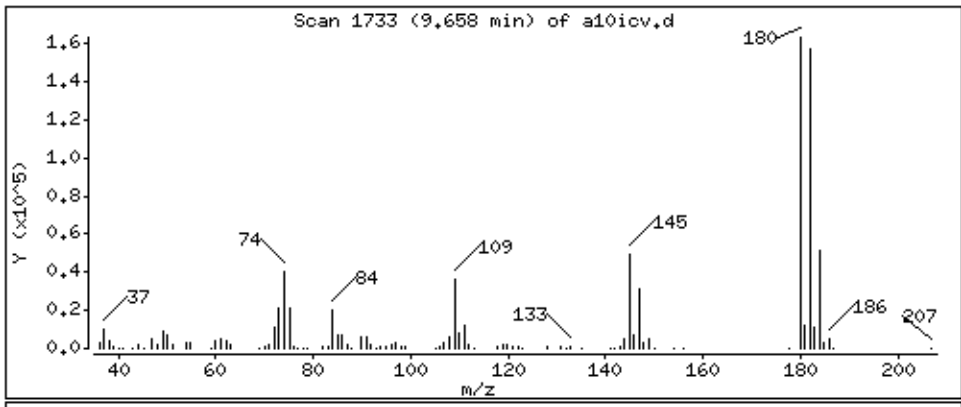
Operator: ala

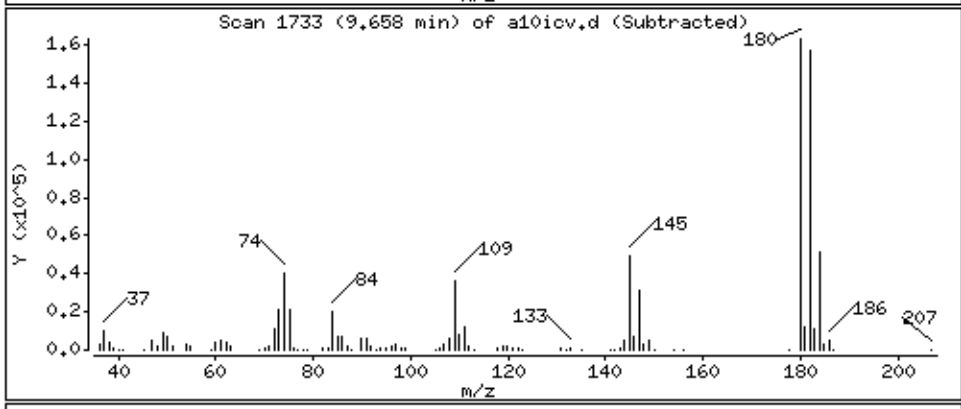
Column phase: DB-624

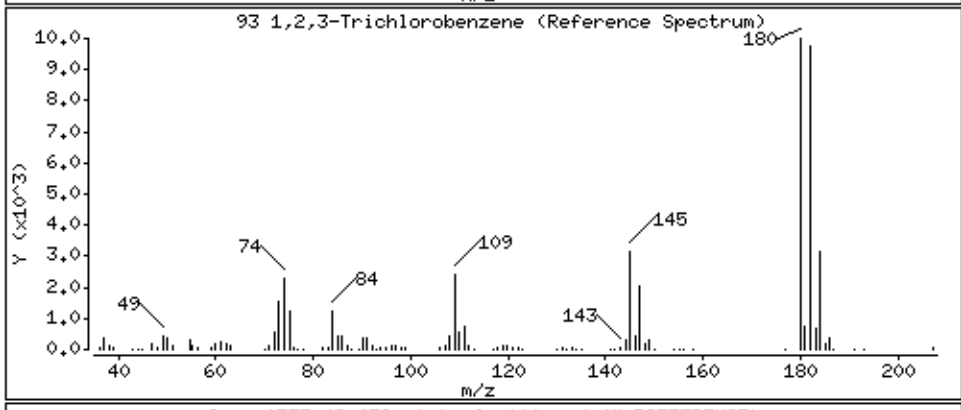
Column diameter: 0.18

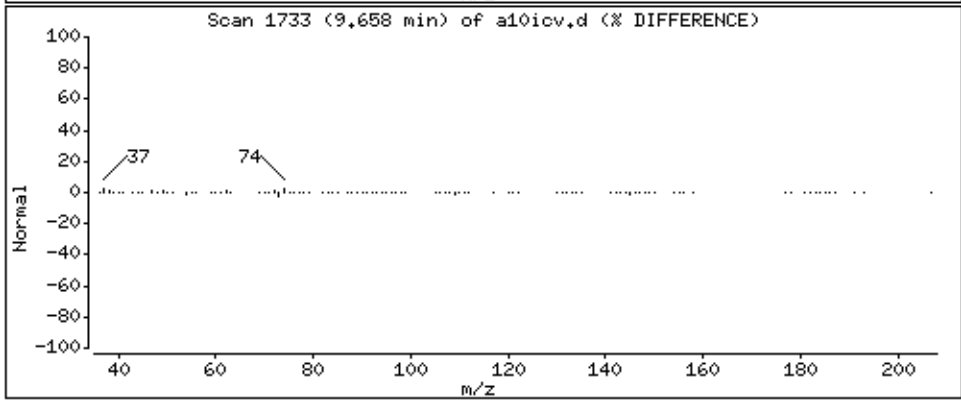
93 1,2,3-Trichlorobenzene

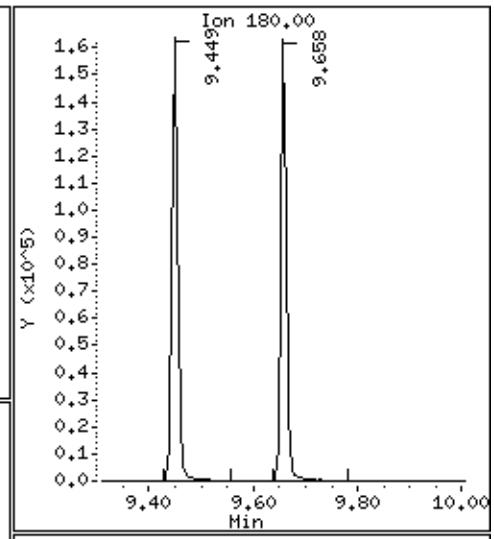
Concentration: 45.4 ppb

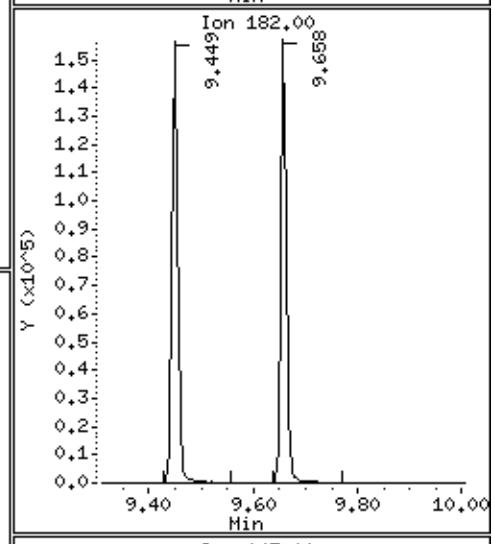


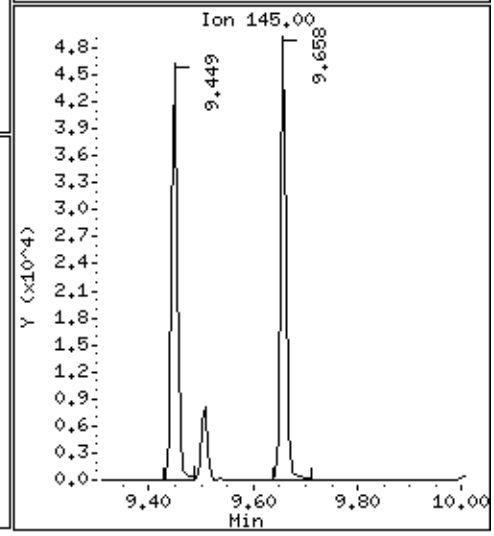












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

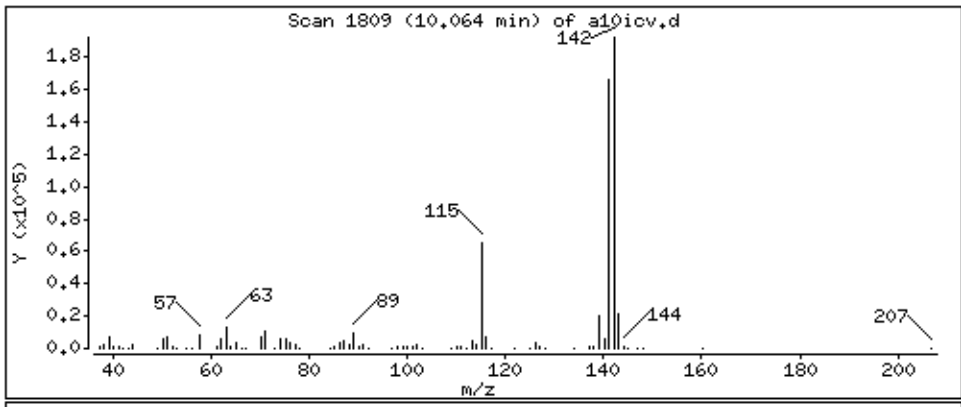
Operator: ala

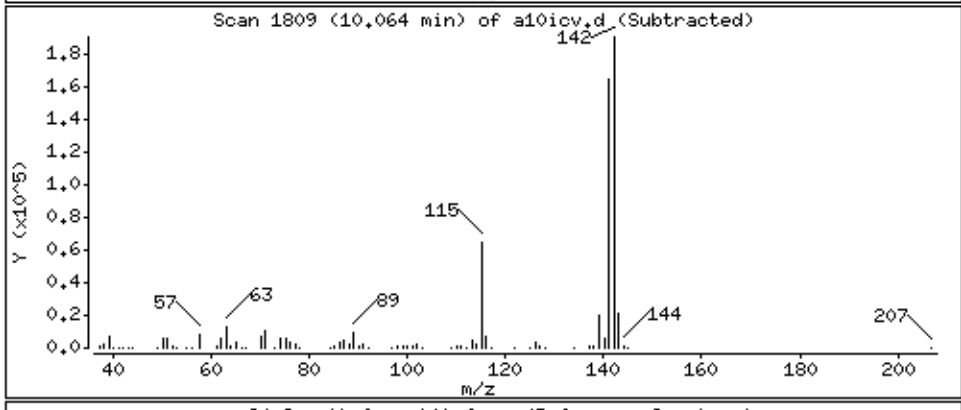
Column phase: DB-624

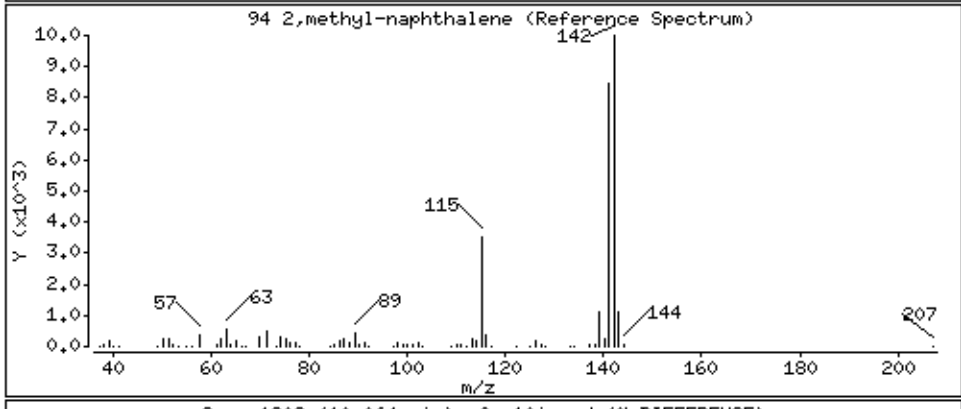
Column diameter: 0.18

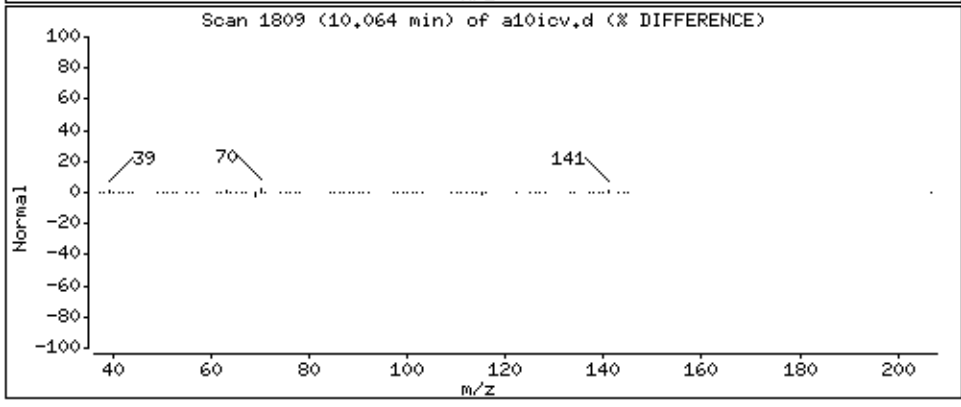
94 2,methyl-naphthalene

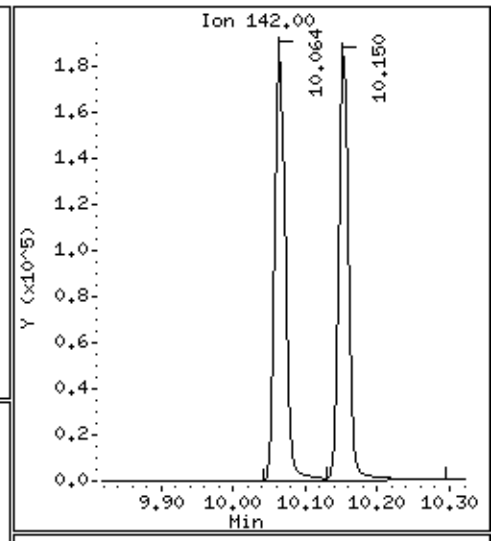
Concentration: 39.7 ppb

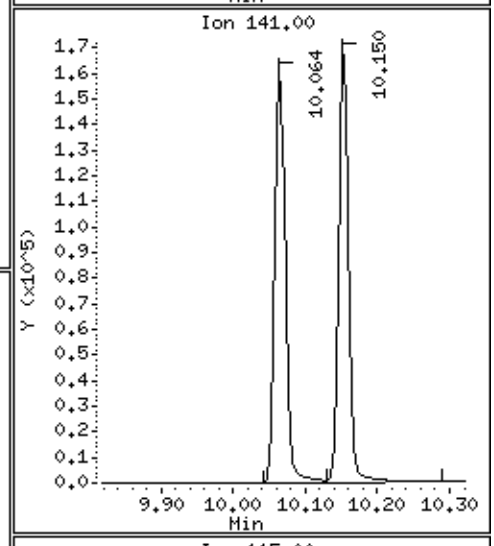


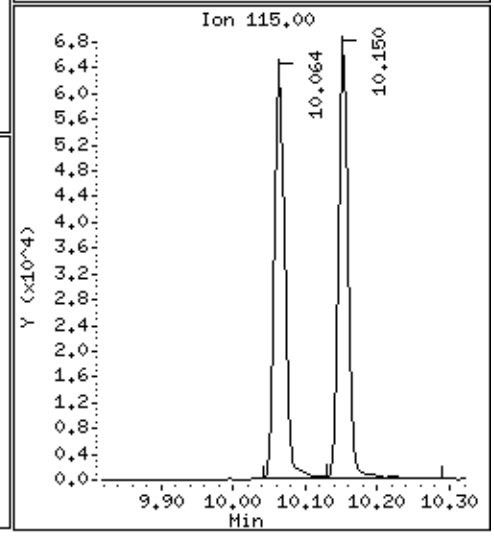












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a10icv.d

Date : 10-MAY-2016 01:15

Client ID: 8260-ICV

Instrument: 50mv6a.i

Sample Info: 8260-ICV,121037:0

Purge Volume: 5.0

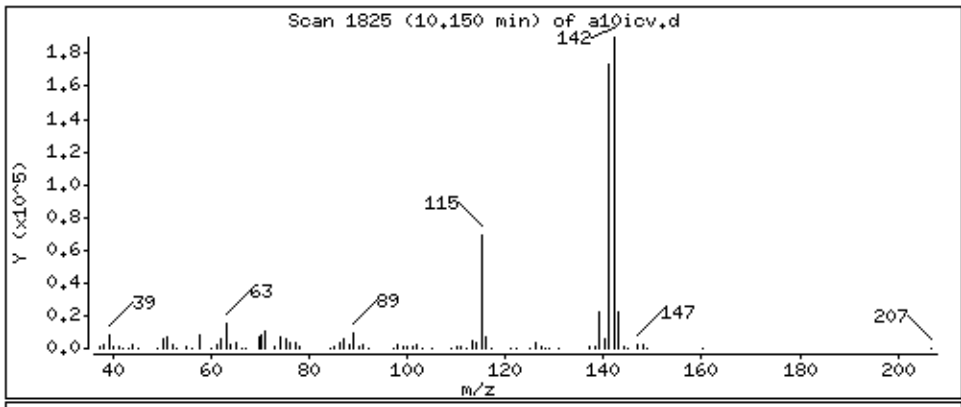
Operator: ala

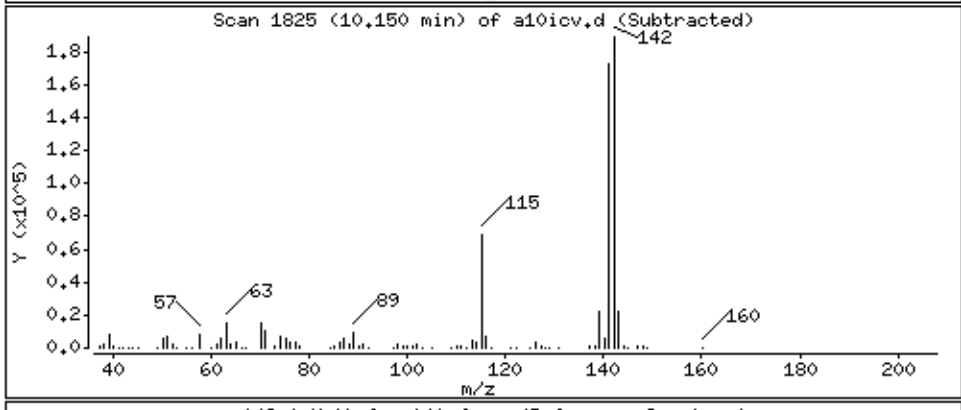
Column phase: DB-624

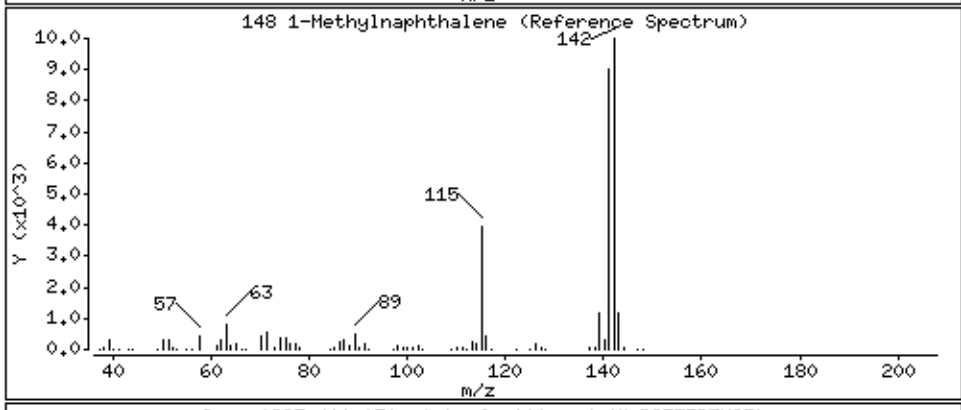
Column diameter: 0.18

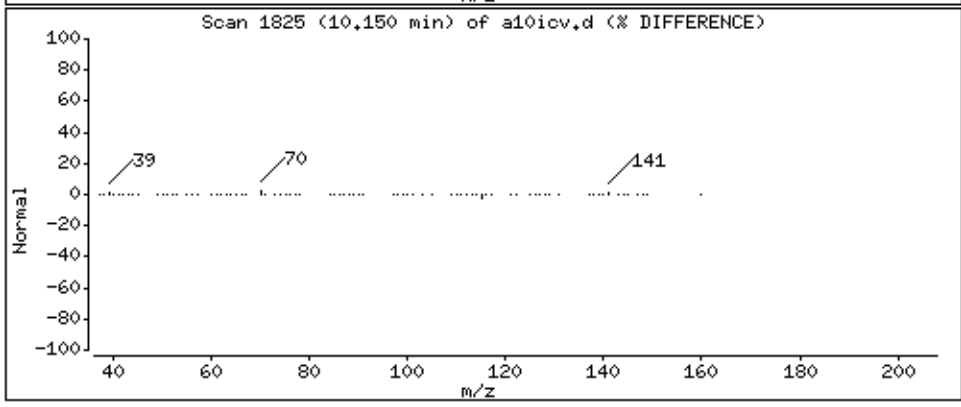
148 1-Methylnaphthalene

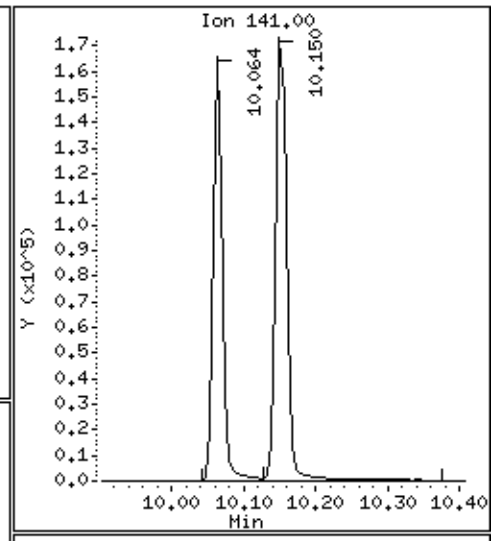
Concentration: 43.5 ppb

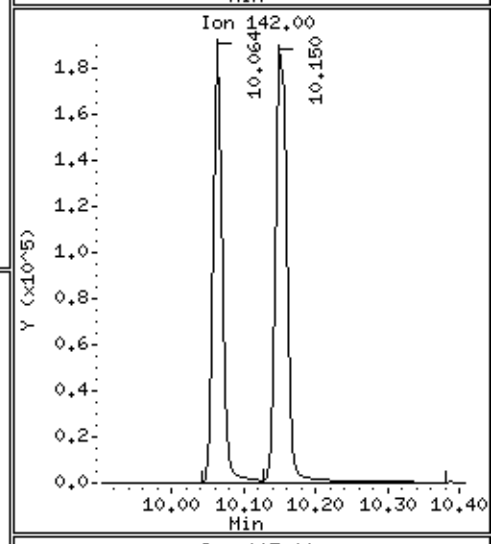


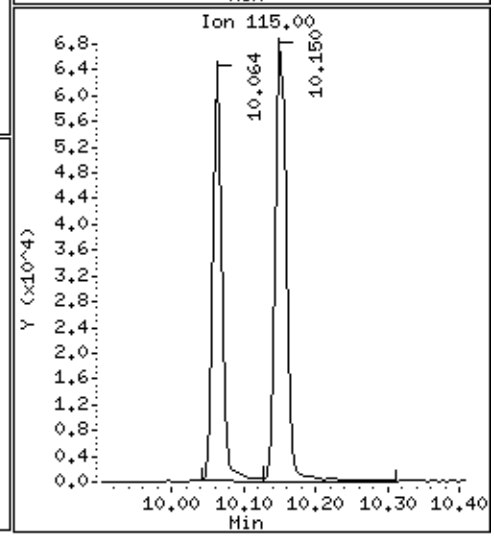












Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b/a10icv.d
Injection Date: 10-MAY-2016 01:15
Instrument: 50mv6a.i
Lab Sample ID: 8260-ICV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a01ccv.d
Lab Smp Id: 8260-CCV Client Smp ID: 8260-CCV
Inj Date : 10-MAY-2016 14:54
Operator : ala Inst ID: 50mv6a.i
Smp Info : 8260-ccv,121038:0
Misc Info : 89951
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
1	Dichlorodifluoromethane	85	0.910	0.910	(0.226)	110520	50.0000	41.4
2	Chloromethane	50	0.991	0.991	(0.246)	78378	50.0000	43.0
3	Vinyl Chloride	62	1.034	1.034	(0.257)	124612	50.0000	47.1
4	Bromomethane	94	1.162	1.162	(0.288)	42374	50.0000	67.6
5	Chloroethane	64	1.210	1.210	(0.300)	80299	50.0000	50.2
6	Trichlorofluoromethane	101	1.317	1.317	(0.327)	228088	50.0000	53.2
8	Diethyl ether	74	1.440	1.440	(0.357)	69365	50.0000	48.1
7	1,2-dichlorotrifluoroethane	67	1.456	1.456	(0.361)	177696	50.0000	55.0
9	Acrolein	56	1.510	1.510	(0.375)	256010	1000.00	872
10	1,1,2trichlorotrifluoroethane	101	1.552	1.552	(0.385)	166274	50.0000	54.6
11	1,1-Dichloroethene	96	1.558	1.558	(0.387)	124397	50.0000	55.4
12	Acetone	43	1.579	1.579	(0.392)	156506	250.000	227
13	Iodomethane	142	1.643	1.643	(0.408)	190962	100.000	150
14	Carbon Disulfide	76	1.686	1.686	(0.419)	367701	50.0000	54.2
16	Methyl Acetate	43	1.734	1.734	(0.430)	77127	50.0000	46.0
143	Acetonitrile	39	1.745	1.745	(0.433)	299924	50.0000	53.6
15	allyl chloride	41	1.745	1.745	(0.433)	384962	100.000	118
17	Methylene Chloride	84	1.820	1.820	(0.452)	120183	50.0000	58.7
18	tert-Butyl Alcohol	59	1.873	1.873	(0.465)	30024	100.000	110(Q)
19	Acrylonitrile	53	1.954	1.954	(0.485)	110640	200.000	177
20	Methyl-tert-butyl ether	73	1.975	1.975	(0.490)	251048	50.0000	51.4
21	1,2-Dichloroethene (trans)	96	1.980	1.980	(0.492)	100500	50.0000	47.5
22	n-Hexane	57	2.146	2.146	(0.533)	136673	50.0000	56.3

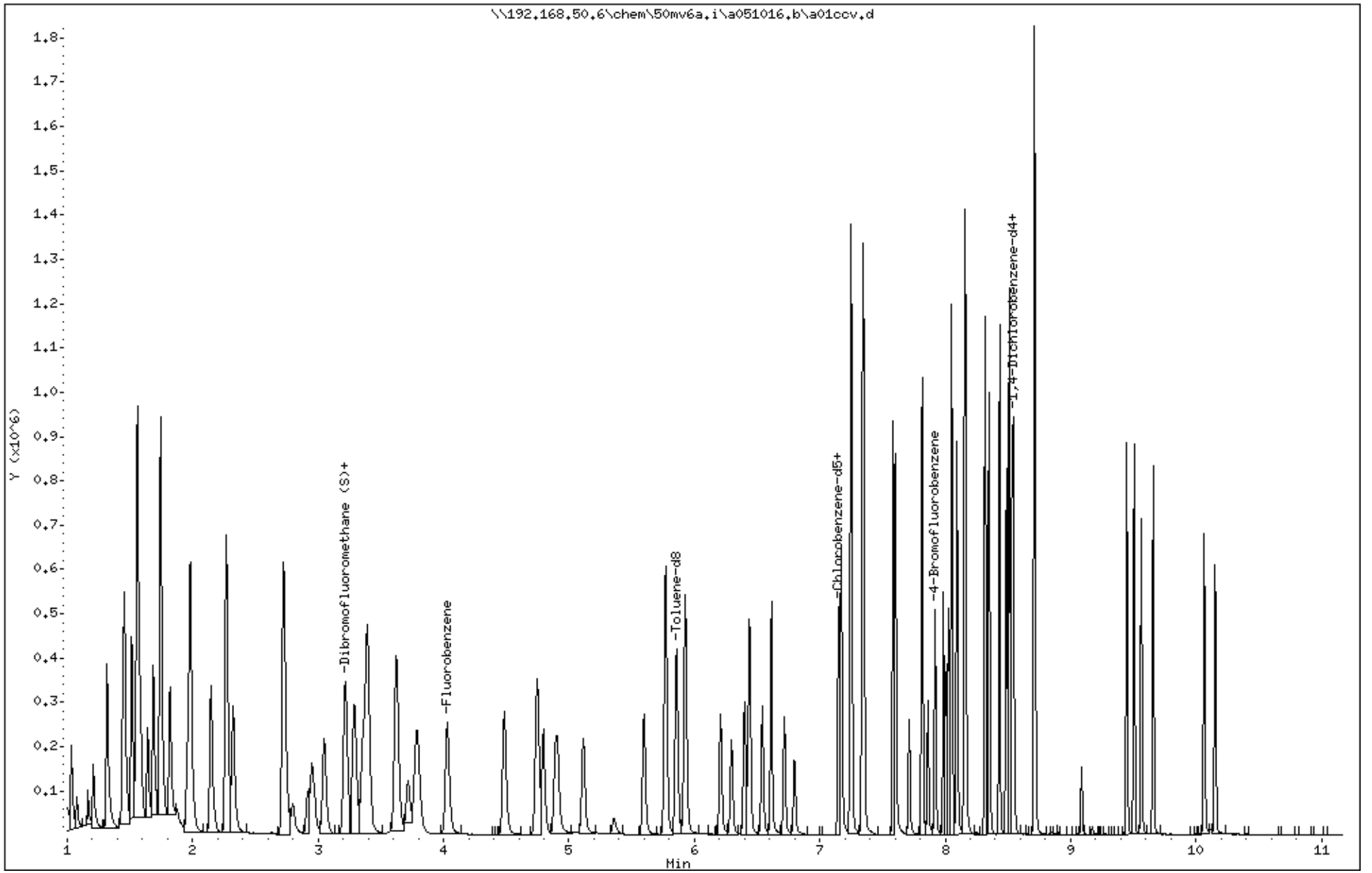
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
	24 Vinyl Acetate	43	2.264	2.264	(0.562)	634536	200.000	194
	23 1,1-Dichloroethane	63	2.275	2.275	(0.565)	179287	50.0000	47.6
	147 chloroprene	53	2.323	2.323	(0.577)	136797	50.0000	50.0
	28 2-Butanone	43	2.719	2.719	(0.675)	201288	250.000	203
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	106671	50.0000	46.4
	27 2,2-Dichloropropane	77	2.729	2.729	(0.677)	164251	50.0000	49.6
	149 Propionitrile	54	2.783	2.783	(0.691)	11795	50.0000	42.1
	144 Methacrylonitrile	41	2.917	2.917	(0.724)	46159	50.0000	46.7
	30 Bromochloromethane	49	2.949	2.949	(0.732)	62898	50.0000	45.0
	31 Tetrahydrofuran	42	2.975	2.975	(0.738)	28168	50.0000	47.4
	32 Chloroform	83	3.050	3.050	(0.757)	185712	50.0000	48.0
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.800)	88756	50.0000	46.1
	34 1,1,1-Trichloroethane	97	3.216	3.216	(0.798)	174654	50.0000	46.7
	35 Cyclohexane	56	3.286	3.286	(0.815)	143295	50.0000	48.0
	150 n-Butyl chloride	56	3.355	3.355	(0.833)	178310	50.0000	51.6
	36 Carbon Tetrachloride	117	3.387	3.387	(0.841)	160091	50.0000	50.1
	37 1,1-Dichloropropene	75	3.393	3.393	(0.842)	142517	50.0000	54.6
	39 Benzene	78	3.628	3.628	(0.900)	350871	50.0000	50.6
	40 1,2-Dichloroethane	62	3.714	3.714	(0.922)	117750	50.0000	46.5
	141 2,2,4-Trimethylpentane	57	3.783	3.783	(0.939)	317606	50.0000	50.3
	38 Isobutyl alcohol	43	3.789	3.789	(0.940)	61310	50.0000	48.6
*	41 Fluorobenzene	96	4.029	4.029	(1.000)	284349	50.0000	
	42 Trichloroethene	95	4.484	4.484	(1.113)	101339	50.0000	48.8
	43 Methylcyclohexane	55	4.746	4.746	(1.178)	116402	50.0000	52.1
	44 1,2-Dichloropropane	63	4.794	4.794	(1.190)	89005	50.0000	49.2
	45 Dibromomethane	93	4.891	4.891	(1.214)	63978	50.0000	45.9
	142 1,4-Dioxane	88	4.907	4.907	(1.218)	21233	1000.00	900
	46 Methyl methacrylate	69	4.912	4.912	(1.219)	54156	50.0000	50.6
	47 Bromodichloromethane	83	5.115	5.115	(1.269)	139575	50.0000	49.7
	49 cis-1,3-Dichloropropene	75	5.597	5.597	(0.782)	146898	50.0000	56.0
	50 4-Methyl-2-Pentanone	43	5.773	5.773	(0.807)	378563	250.000	245
$	51 Toluene-d8	98	5.859	5.859	(0.819)	258389	50.0000	50.3
	52 Toluene	91	5.929	5.929	(0.829)	363024	50.0000	50.9
	53 trans-1,3-Dichloropropene	75	6.212	6.212	(0.868)	131029	50.0000	54.5
	54 Ethyl Methacrylate	69	6.298	6.298	(0.880)	96466	50.0000	51.3
	55 1,1,2-Trichloroethane	83	6.399	6.399	(0.895)	66584	50.0000	51.8
	56 Tetrachloroethene	166	6.442	6.442	(0.901)	115914	50.0000	57.9
	57 1,3-Dichloropropane	76	6.538	6.538	(0.914)	123233	50.0000	54.5
	58 2-Hexanone	43	6.613	6.613	(0.924)	267458	250.000	243
	59 Dibromochloromethane	129	6.720	6.720	(0.939)	101227	50.0000	53.7
	60 1,2-Dibromoethane	107	6.795	6.795	(0.950)	82578	50.0000	54.3
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	193546	50.0000	
	62 Chlorobenzene	112	7.175	7.175	(1.003)	231276	50.0000	52.1
	63 1,1,1,2-Tetrachloroethane	131	7.250	7.250	(1.013)	96428	50.0000	58.2
	64 Ethylbenzene	106	7.250	7.250	(1.013)	121605	50.0000	51.4
	65 m&p-Xylene	106	7.346	7.346	(1.027)	307086	100.000	106
	67 o-Xylene	106	7.587	7.587	(1.061)	146356	50.0000	52.3
	68 Styrene	104	7.603	7.603	(1.063)	249144	50.0000	52.1
	69 Bromoform	173	7.715	7.715	(0.904)	76005	50.0000	48.2
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	393547	50.0000	54.2
$	72 4-Bromofluorobenzene	95	7.919	7.919	(1.107)	90972	50.0000	50.1
	74 Bromobenzene	77	7.983	7.983	(1.116)	132946	50.0000	49.6
	73 1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	99497	50.0000	47.2
	71 trans-1,4-Dichloro-2-butene	53	8.026	8.026	(1.122)	24151	50.0000	41.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)
75	1,2,3-Trichloropropane	110	8.031	8.031	(0.941)	27170	50.0000	47.5
76	n-Propylbenzene	91	8.052	8.052	(0.944)	488348	50.0000	53.9
77	2-Chlorotoluene	91	8.095	8.095	(0.949)	264831	50.0000	51.5
78	1,3,5-Trimethylbenzene	105	8.154	8.154	(0.955)	295247	50.0000	50.4
79	4-Chlorotoluene	126	8.165	8.165	(0.957)	101079	50.0000	52.0
80	tert-Butylbenzene	119	8.314	8.314	(0.974)	374717	50.0000	59.0
81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	284647	50.0000	48.8
82	sec-Butylbenzene	105	8.432	8.432	(0.988)	423413	50.0000	54.0
83	1,3-Dichlorobenzene	146	8.491	8.491	(0.995)	188478	50.0000	51.8
84	p-Isopropyltoluene	119	8.512	8.512	(0.997)	349419	50.0000	53.8
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	108445	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	198801	50.0000	52.6
87	n-Butylbenzene	91	8.710	8.710	(1.021)	328343	50.0000	51.0
88	1,2-Dichlorobenzene	146	8.716	8.716	(1.021)	181311	50.0000	51.2
89	1,2-Dibromo-3-chloropropane	155	9.090	9.090	(1.065)	18857	50.0000	44.1
90	1,2,4-Trichlorobenzene	180	9.449	9.449	(1.107)	135925	50.0000	50.4
91	Hexachlorobutadiene	225	9.507	9.507	(1.114)	82971	50.0000	52.4
92	Naphthalene	128	9.566	9.566	(1.121)	304904	50.0000	42.3
93	1,2,3-Trichlorobenzene	180	9.657	9.657	(1.132)	131449	50.0000	49.0
94	2,methyl-naphthalene	142	10.064	10.064	(1.179)	184246	50.0000	45.1
148	1-Methylnaphthalene	141	10.149	10.149	(1.189)	154528	50.0000	42.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a01ccv.d
Date : 10-MAY-2016 14:54
Client ID: 8260-CCV
Instrument: 50mv6a.i
Sample Info: 8260-CCV,121038:0
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a01ccv.d
Injection Date: 10-MAY-2016 14:54
Instrument: 50mv6a.i
Lab Sample ID: 8260-CCV
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a00bfb.d

Date : 09-MAY-2016 18:59

Client ID: 8260-TUNE

Instrument: 50mv6a.i

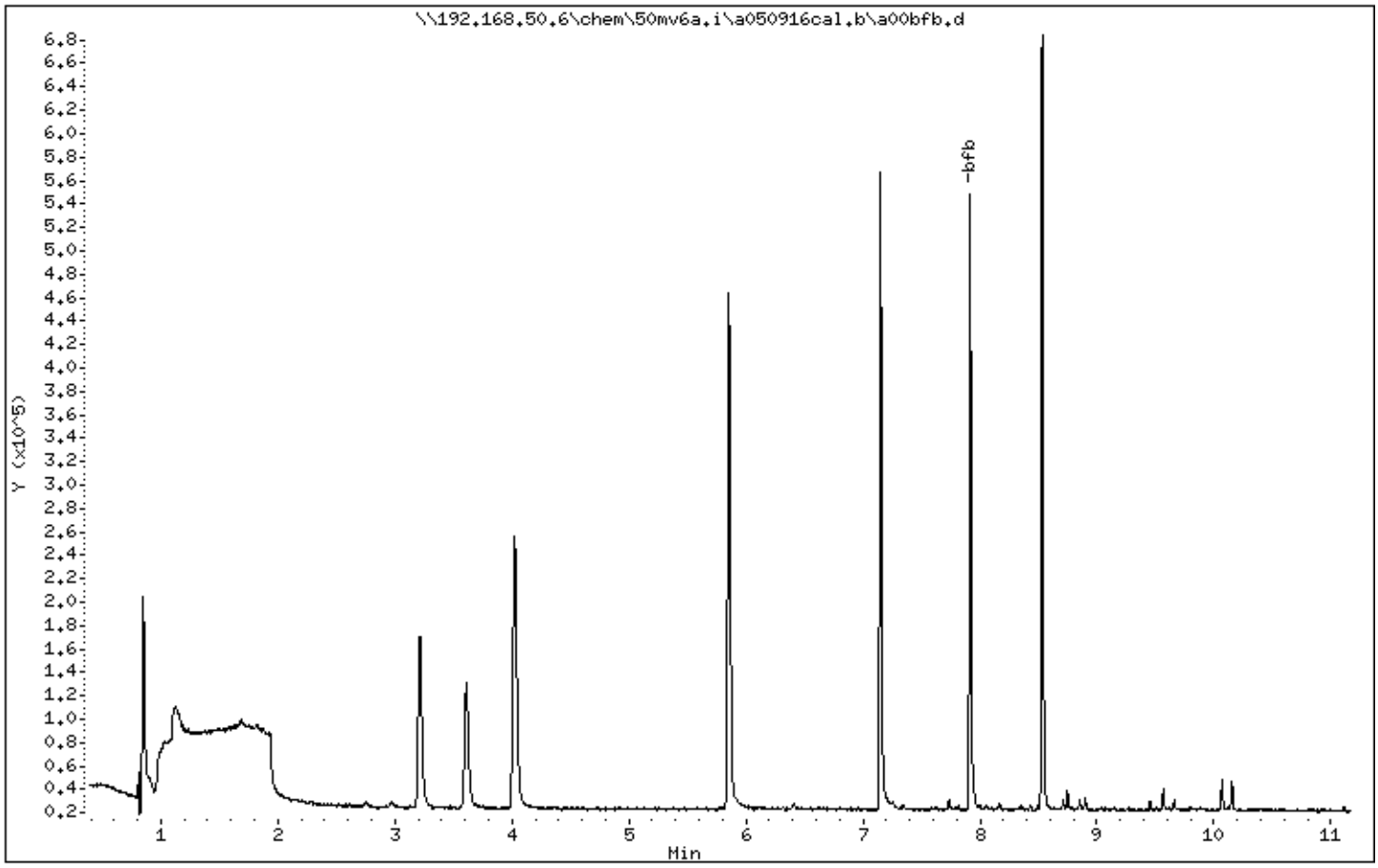
Sample Info: 8260-TUNE,121028:0

Volume Injected (uL): 1.0

Operator: ala

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv6a.i\a050916cal.b\a00bfb.d

Date : 09-MAY-2016 18:59

Client ID: 8260-TUNE

Instrument: 50mv6a.i

Sample Info: 8260-TUNE,121028:0

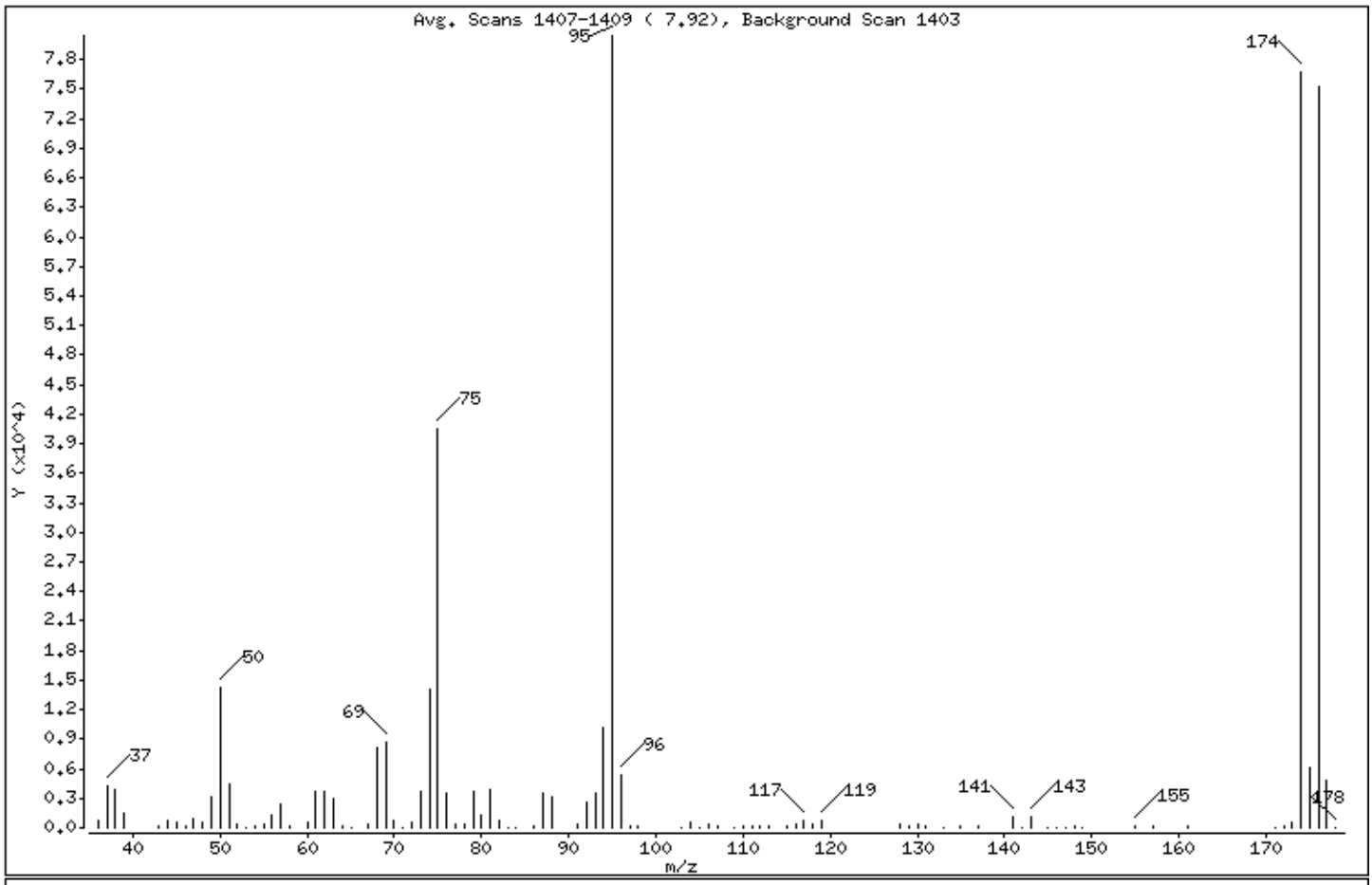
Volume Injected (uL): 1.0

Operator: ala

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.70
75	30.00 - 60.00% of mass 95	50.30
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.60 (0.63)
174	50.00 - 100.00% of mass 95	95.52
175	5.00 - 9.00% of mass 174	7.54 (7.90)
176	95.00 - 101.00% of mass 174	93.51 (97.90)
177	5.00 - 9.00% of mass 176	5.97 (6.39)

Date : 09-MAY-2016 18:59

Client ID: 8260-TUNE Instrument: 50mv6a.i

Sample Info: 8260-TUNE,121028:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1407-1409 (7.92), Background Scan 1403
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	780	65.00	64	94.00	10116	135.00	266
37.00	4330	67.00	310	95.00	80456	137.00	143
38.00	3837	68.00	8189	96.00	5303	141.00	1140
39.00	1531	69.00	8614	97.00	257	142.00	53
43.00	103	70.00	807	98.00	96	143.00	1028
44.00	691	71.00	41	103.00	51	145.00	75
45.00	600	72.00	476	104.00	593	146.00	61
46.00	183	73.00	3659	105.00	34	147.00	56
47.00	922	74.00	14085	106.00	397	148.00	267
48.00	576	75.00	40472	107.00	151	149.00	60
49.00	3100	76.00	3445	109.00	50	155.00	262
50.00	14241	77.00	422	110.00	108	157.00	196
51.00	4401	78.00	304	111.00	245	161.00	113
52.00	283	79.00	3713	112.00	112	171.00	64
53.00	37	80.00	1224	113.00	111	172.00	130
54.00	105	81.00	3948	115.00	238	173.00	483
55.00	281	82.00	782	116.00	431	174.00	76848
56.00	1269	83.00	17	117.00	715	175.00	6070
57.00	2454	84.00	13	118.00	449	176.00	75232
58.00	190	86.00	165	119.00	698	177.00	4805
60.00	607	87.00	3524	128.00	434	178.00	51
61.00	3738	88.00	3110	129.00	138		
62.00	3649	91.00	295	130.00	372		
63.00	2959	92.00	2561	131.00	135		
64.00	253	93.00	3534	133.00	53		

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a00bfb.d

Date : 10-MAY-2016 14:17

Client ID: 8260-TUNE

Instrument: 50mv6a.i

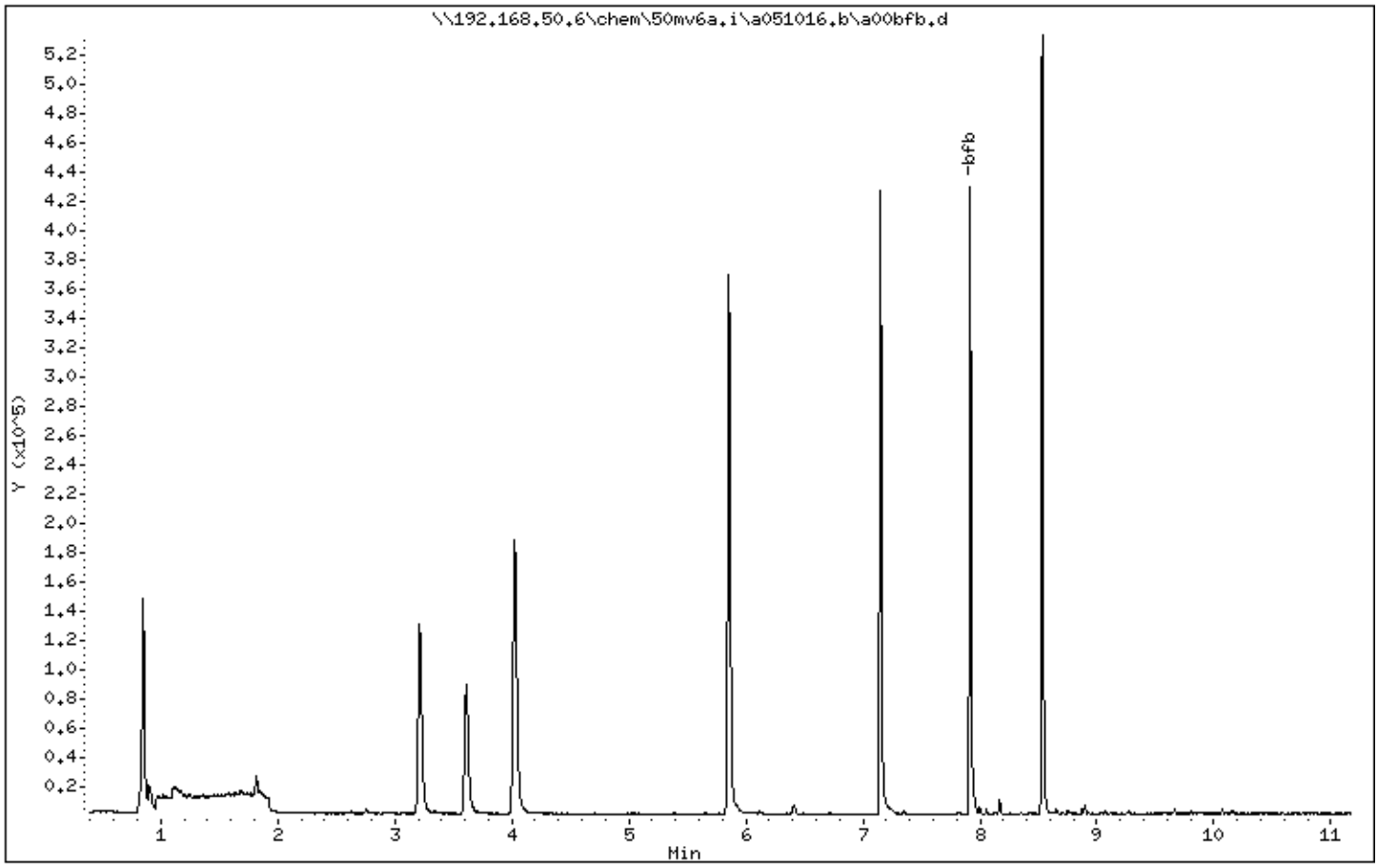
Sample Info: 8260-TUNE,120837:0

Volume Injected (uL): 1.0

Operator: ala

Column phase:

Column diameter: 2.00



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a00bfb.d

Date : 10-MAY-2016 14:17

Client ID: 8260-TUNE

Instrument: 50mv6a.i

Sample Info: 8260-TUNE,120837:0

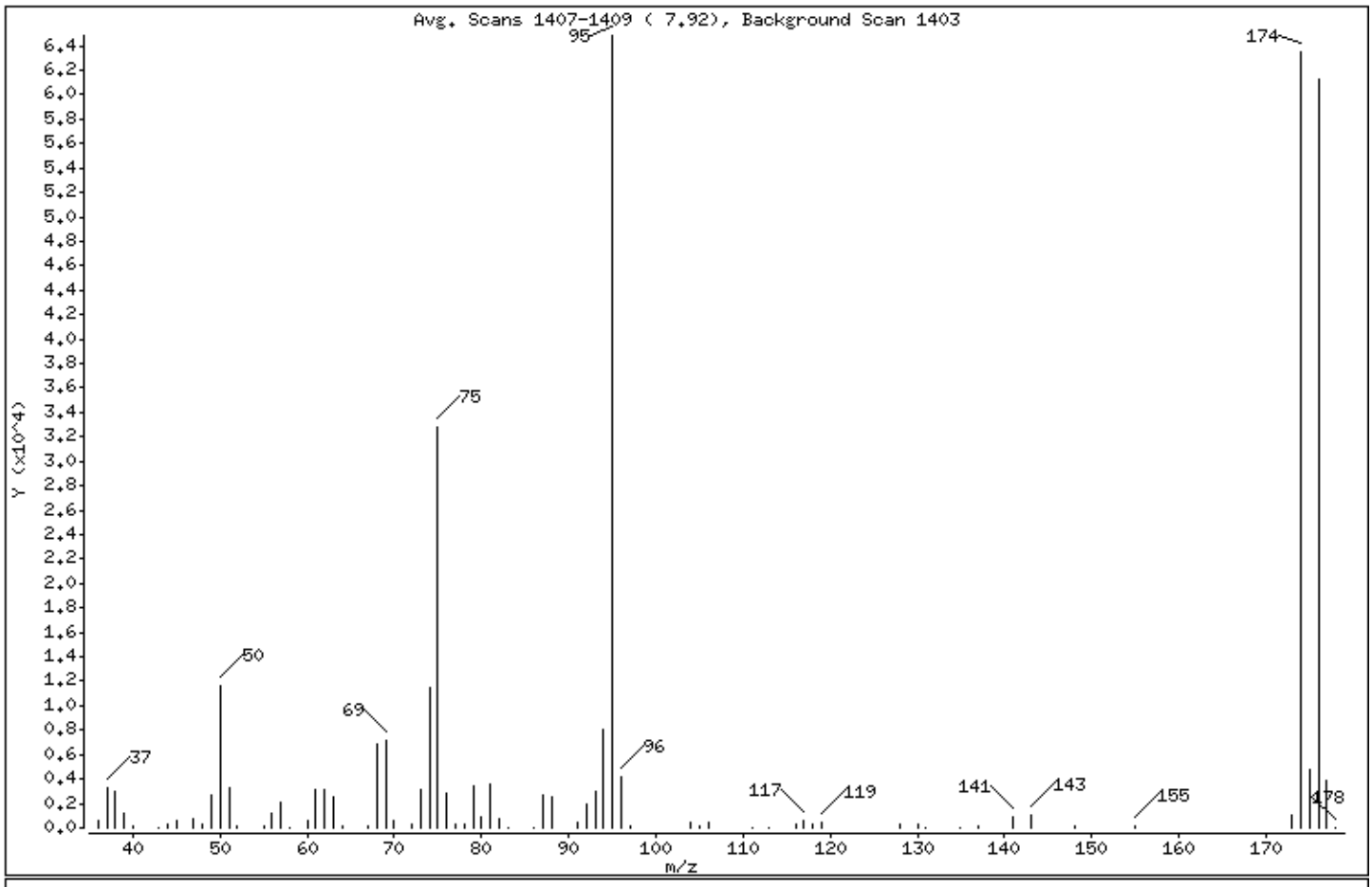
Volume Injected (uL): 1.0

Operator: ala

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.91
75	30.00 - 60.00% of mass 95	50.59
96	5.00 - 9.00% of mass 95	6.39
173	Less than 2.00% of mass 174	1.66 (1.69)
174	50.00 - 100.00% of mass 95	97.91
175	5.00 - 9.00% of mass 174	7.37 (7.53)
176	95.00 - 101.00% of mass 174	94.55 (96.56)
177	5.00 - 9.00% of mass 176	5.90 (6.24)

Date : 10-MAY-2016 14:17

Client ID: 8260-TUNE Instrument: 50mv6a.i

Sample Info: 8260-TUNE,120837:0

Volume Injected (uL): 1.0 Operator: ala

Column phase: Column diameter: 2.00

Data File: a00bfb.d
Spectrum: Avg. Scans 1407-1409 (7.92), Background Scan 1403
Location of Maximum: 95.00
Number of points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	604	61.00	3079	83.00	62	119.00	452
37.00	3271	62.00	3177	86.00	59	128.00	282
38.00	3018	63.00	2539	87.00	2756	130.00	321
39.00	1231	64.00	204	88.00	2498	131.00	68
40.00	101	67.00	163	91.00	394	135.00	51
43.00	56	68.00	6824	92.00	1973	137.00	125
44.00	346	69.00	7186	93.00	2975	141.00	882
45.00	610	70.00	620	94.00	7978	143.00	985
47.00	683	72.00	319	95.00	64832	148.00	143
48.00	299	73.00	3181	96.00	4141	155.00	148
49.00	2632	74.00	11537	97.00	132	173.00	1074
50.00	11609	75.00	32800	104.00	407	174.00	63480
51.00	3316	76.00	2867	105.00	126	175.00	4778
52.00	174	77.00	347	106.00	387	176.00	61296
55.00	187	78.00	293	111.00	53	177.00	3825
56.00	1176	79.00	3438	113.00	52	178.00	52
57.00	2121	80.00	888	116.00	307		
58.00	50	81.00	3559	117.00	558		
60.00	537	82.00	747	118.00	328		

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 16:10 Lab Sample ID: 1536248

Date Analyzed: 05/10/2016 16:10 Lab File ID: A051016.B\A03MB.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	ND	U
71-43-2	Benzene	ND	U
75-27-4	Bromodichloromethane	ND	U
75-25-2	Bromoform	ND	U
74-83-9	Bromomethane	ND	U
78-93-3	2-Butanone (MEK)	ND	U
75-15-0	Carbon disulfide	ND	U
56-23-5	Carbon tetrachloride	ND	U
108-90-7	Chlorobenzene	ND	U
75-00-3	Chloroethane	ND	U
67-66-3	Chloroform	ND	U
74-87-3	Chloromethane	ND	U
110-82-7	Cyclohexane	ND	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	U
124-48-1	Dibromochloromethane	ND	U
106-93-4	1,2-Dibromoethane (EDB)	ND	U
95-50-1	1,2-Dichlorobenzene	ND	U
541-73-1	1,3-Dichlorobenzene	ND	U
106-46-7	1,4-Dichlorobenzene	0.30	J
75-71-8	Dichlorodifluoromethane	ND	U
75-34-3	1,1-Dichloroethane	ND	U
107-06-2	1,2-Dichloroethane	ND	U
75-35-4	1,1-Dichloroethene	ND	U
156-59-2	cis-1,2-Dichloroethene	ND	U
156-60-5	trans-1,2-Dichloroethene	ND	U
78-87-5	1,2-Dichloropropane	ND	U
10061-01-5	cis-1,3-Dichloropropene	ND	U
10061-02-6	trans-1,3-Dichloropropene	ND	U
100-41-4	Ethylbenzene	ND	U
591-78-6	2-Hexanone	ND	U
98-82-8	Isopropylbenzene (Cumene)	ND	U
79-20-9	Methyl acetate	ND	U
108-87-2	Methylcyclohexane	ND	U
75-09-2	Methylene Chloride	ND	U
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	U
1634-04-4	Methyl-tert-butyl ether	ND	U
100-42-5	Styrene	ND	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 16:10 Lab Sample ID: 1536248

Date Analyzed: 05/10/2016 16:10 Lab File ID: A051016.B\A03MB.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
79-34-5	1,1,2,2-Tetrachloroethane	ND	U
127-18-4	Tetrachloroethene	ND	U
108-88-3	Toluene	ND	U
120-82-1	1,2,4-Trichlorobenzene	ND	U
71-55-6	1,1,1-Trichloroethane	ND	U
79-00-5	1,1,2-Trichloroethane	ND	U
79-01-6	Trichloroethene	ND	U
75-69-4	Trichlorofluoromethane	ND	U
76-13-1	1,1,2-Trichlorotrifluoroethane	ND	U
75-01-4	Vinyl chloride	ND	U
1330-20-7	Xylene (Total)	ND	U

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d
Lab Smp Id: 1536248 Client Smp ID: MB
Inj Date : 10-MAY-2016 16:10
Operator : ala Inst ID: 50mv6a.i
Smp Info : 1536248
Misc Info : 90006
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

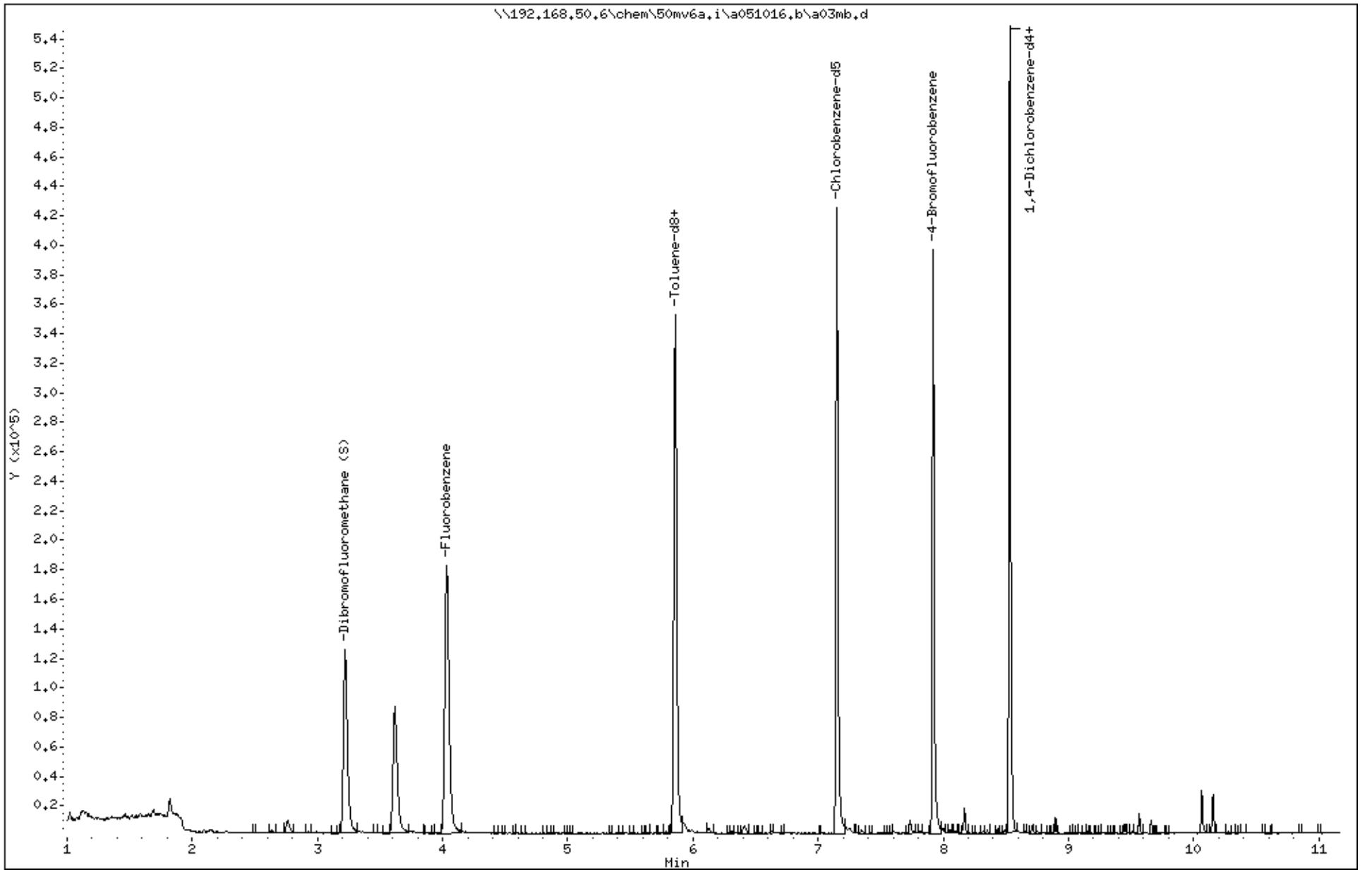
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
9	Acrolein	56	1.515	1.510	(0.376)	2674	11.9759	12.0
12	Acetone	43	1.579	1.579	(0.391)	2364	4.49959	4.50
14	Carbon Disulfide	76	1.692	1.686	(0.419)	4470	0.86546	0.865
$ 33	Dibromofluoromethane (S)	113	3.222	3.222	(0.798)	81952	55.9150	55.9
* 41	Fluorobenzene	96	4.035	4.029	(1.000)	216387	50.0000	
$ 51	Toluene-d8	98	5.859	5.859	(0.819)	222234	48.7754	48.8
52	Toluene	91	5.929	5.929	(0.829)	2090	0.33016	0.330
* 61	Chlorobenzene-d5	117	7.154	7.154	(1.000)	171711	50.0000	
$ 72	4-Bromofluorobenzene	95	7.913	7.919	(1.106)	82174	50.9925	51.0
* 85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	90220	50.0000	
86	1,4-Dichlorobenzene	146	8.545	8.545	(1.001)	952	0.30309	0.303(Q)
92	Naphthalene	128	9.566	9.566	(1.121)	6614	1.10346	1.10
94	2,methyl-naphthalene	142	10.064	10.064	(1.179)	8727	2.56981	2.57
148	1-Methylnaphthalene	141	10.155	10.149	(1.190)	7603	2.48126	2.48

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d
Date : 10-MAY-2016 16:10
Client ID: MB
Sample Info: 1536248
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50mv6a.i
Operator: ala
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

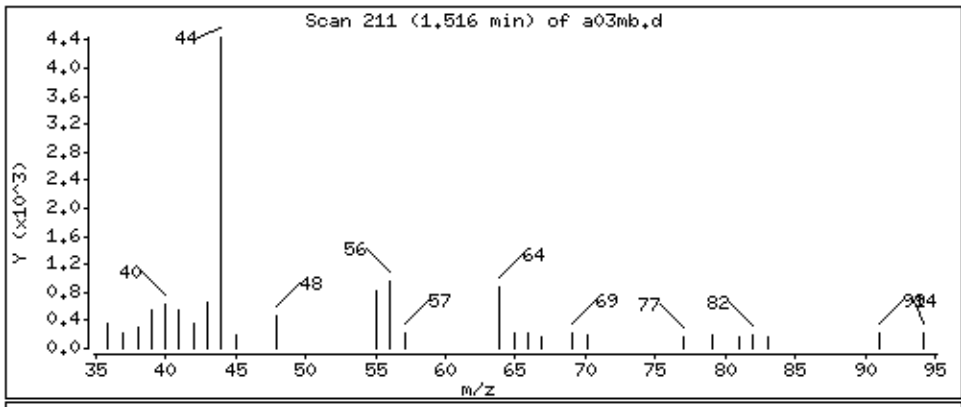
Operator: ala

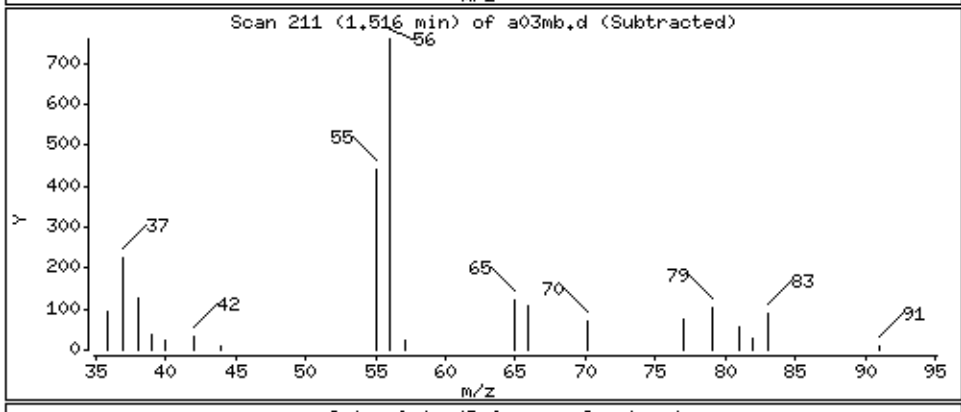
Column phase: DB-624

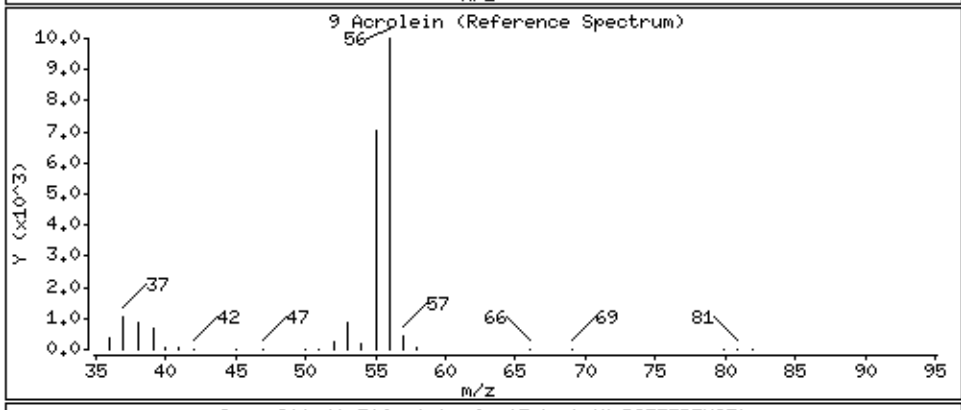
Column diameter: 0.18

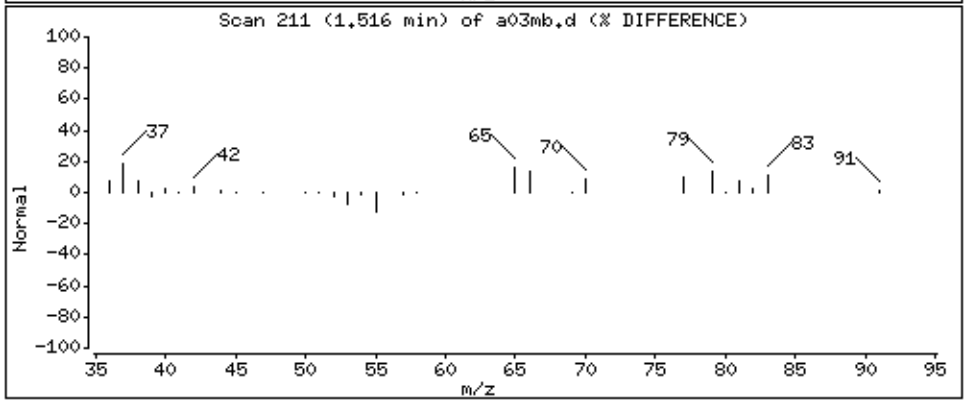
9 Acrolein

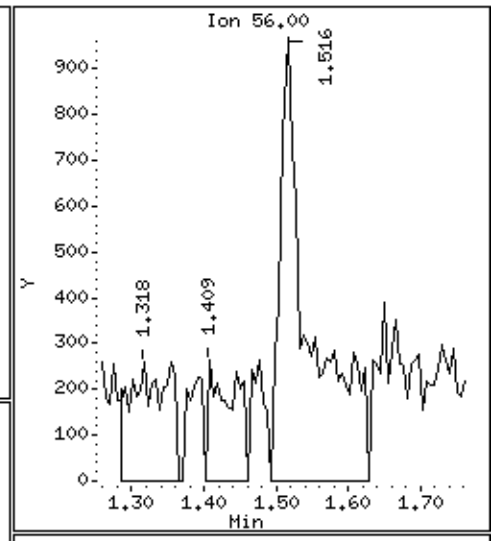
Concentration: 12.0 ppb

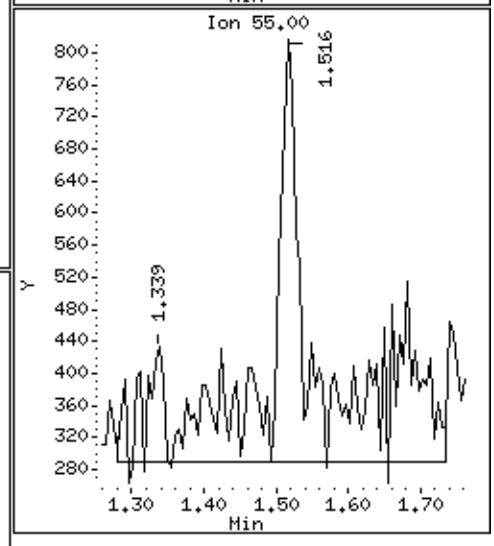












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

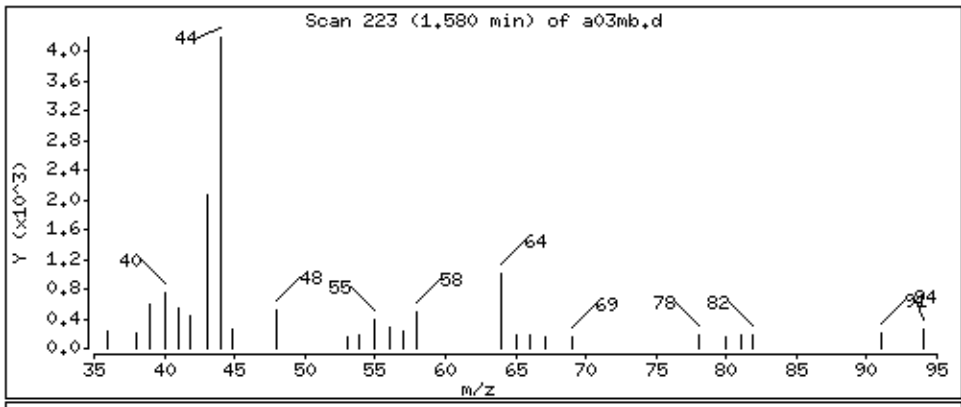
Operator: ala

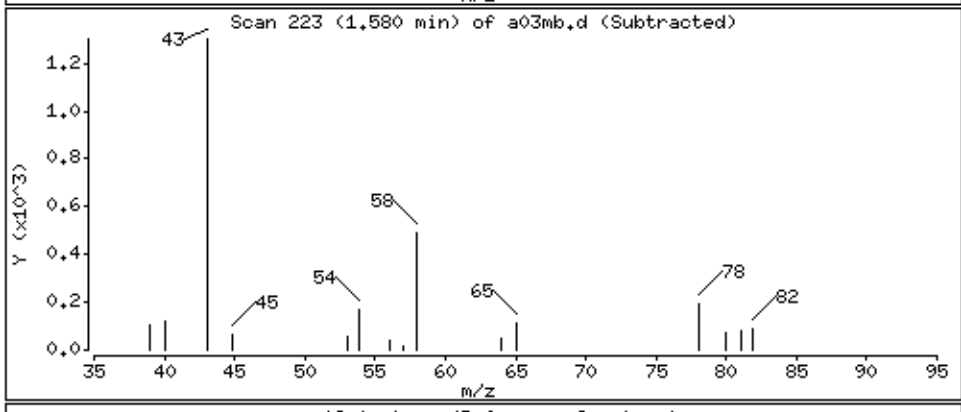
Column phase: DB-624

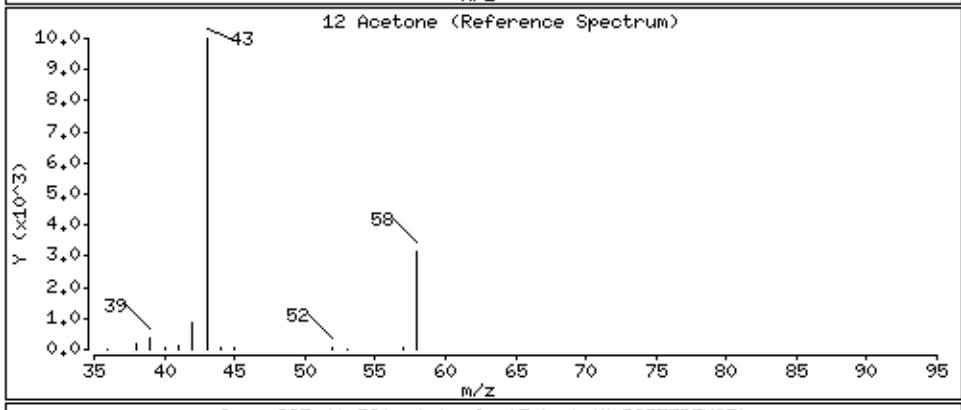
Column diameter: 0.18

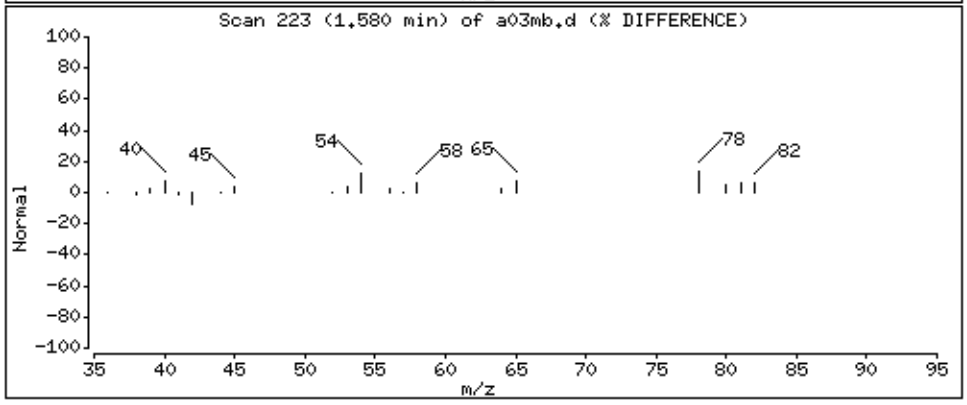
12 Acetone

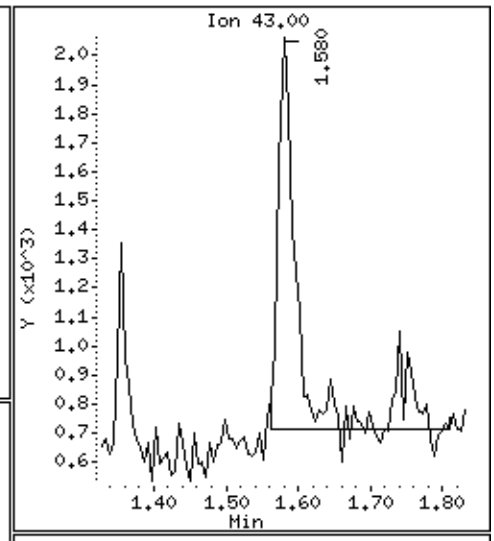
Concentration: 4.50 ppb

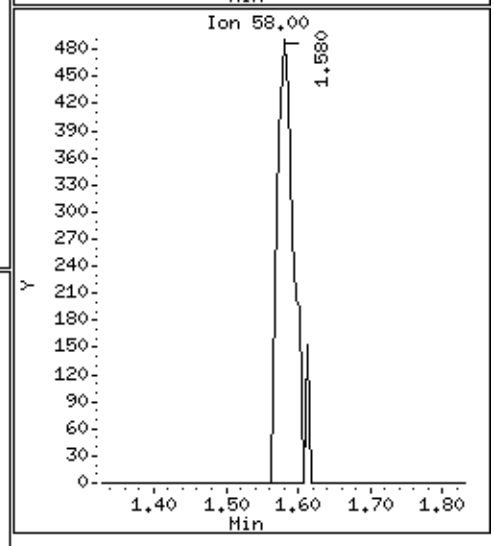












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

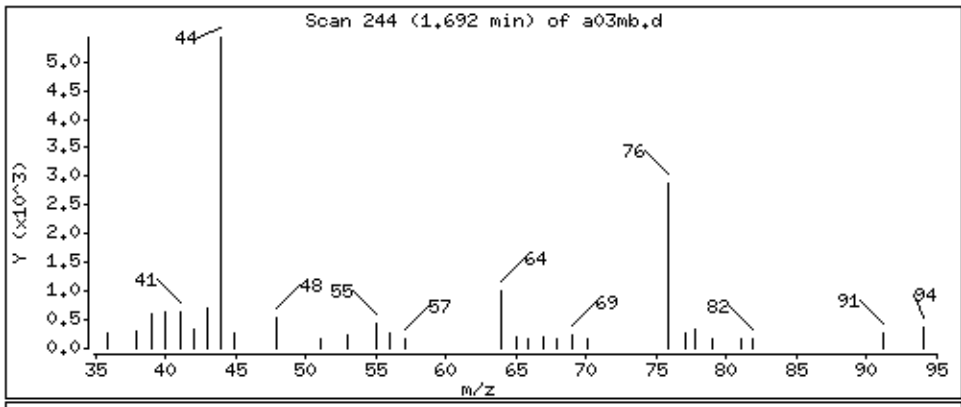
Operator: ala

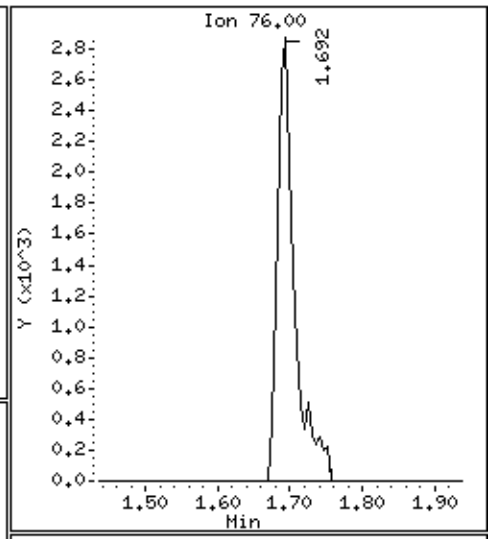
Column phase: DB-624

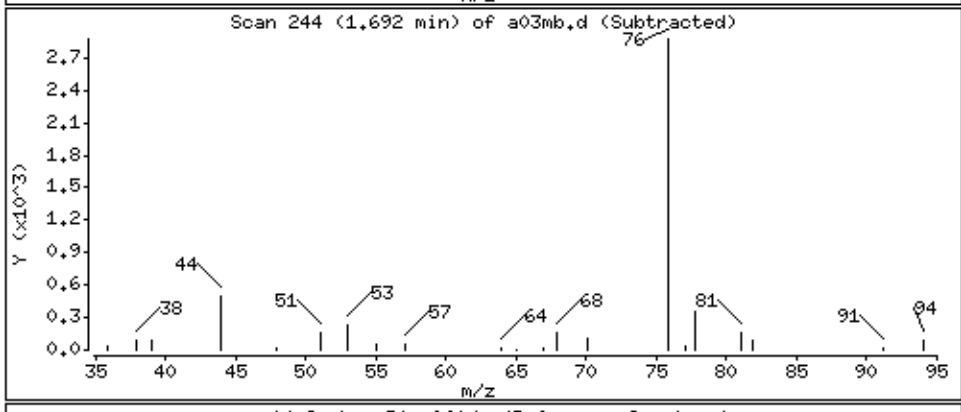
Column diameter: 0.18

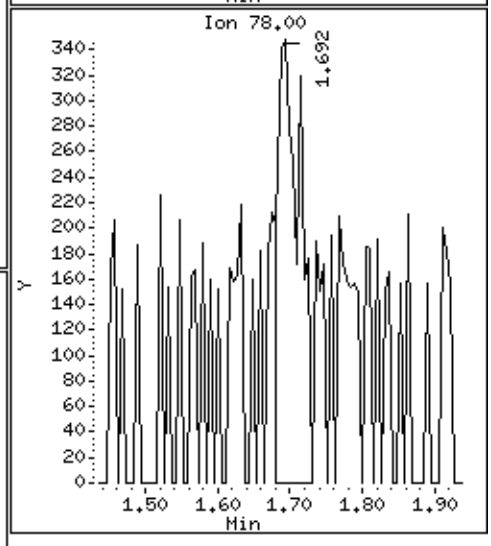
14 Carbon Disulfide

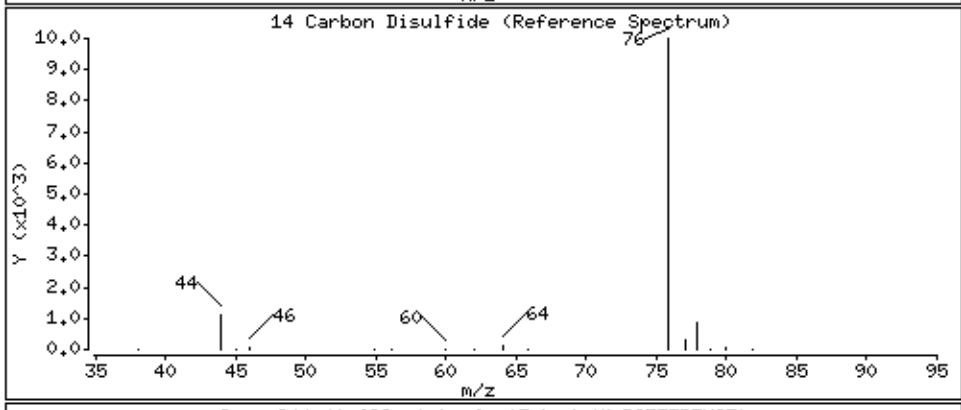
Concentration: 0.865 ppb

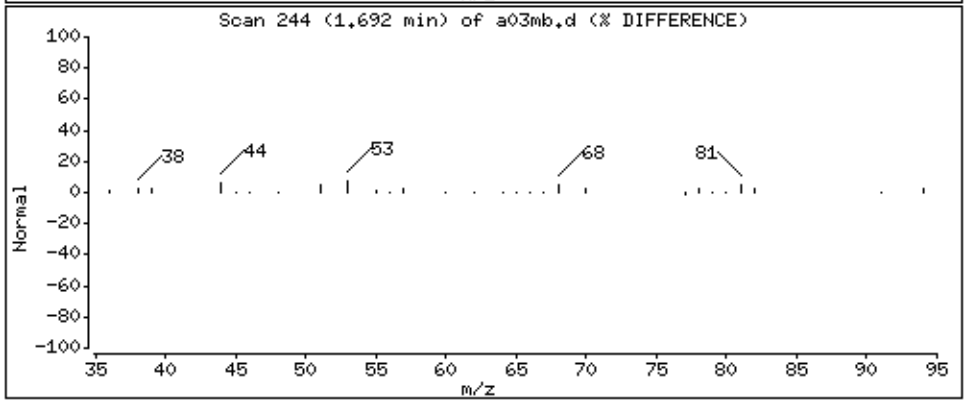












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

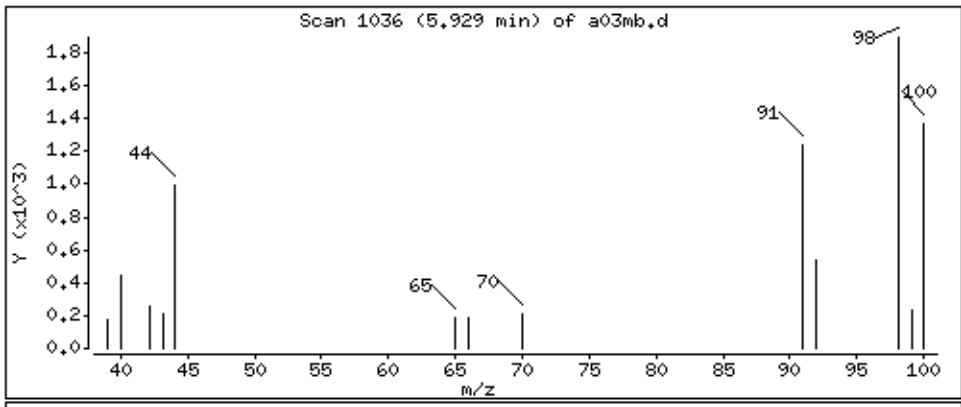
Operator: ala

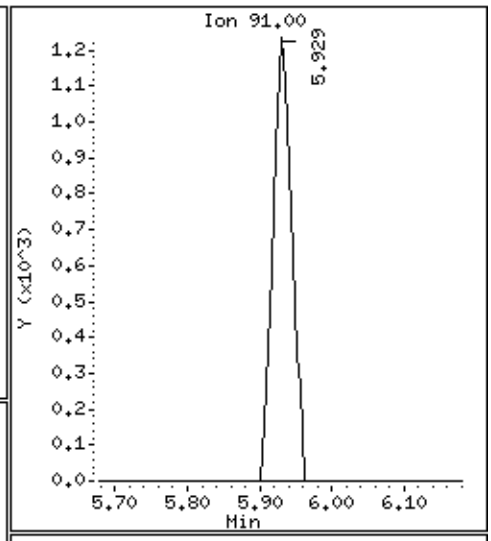
Column phase: DB-624

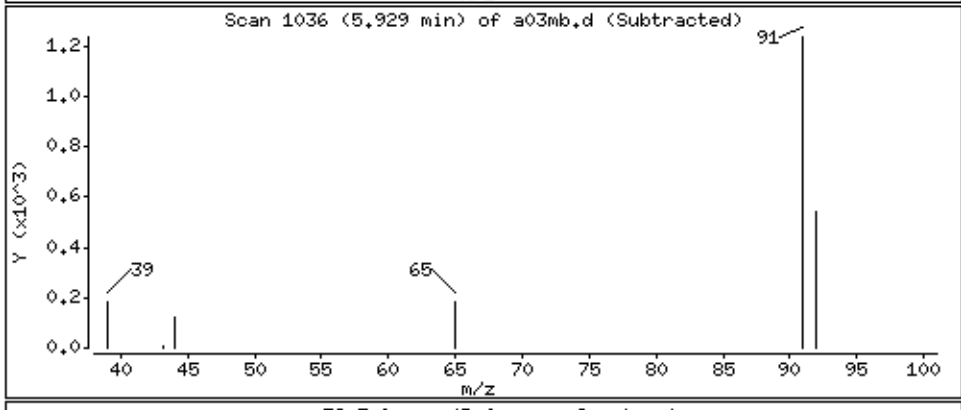
Column diameter: 0.18

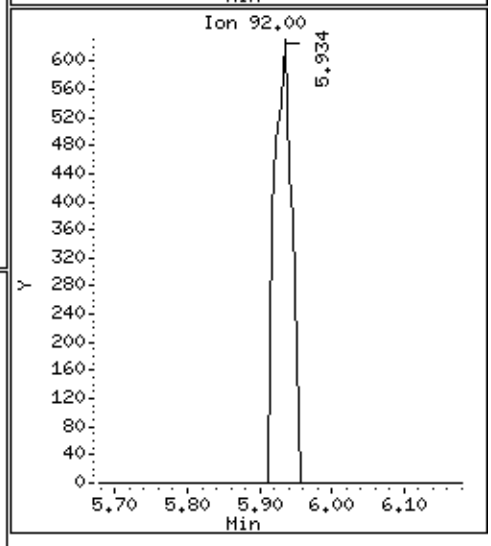
52 Toluene

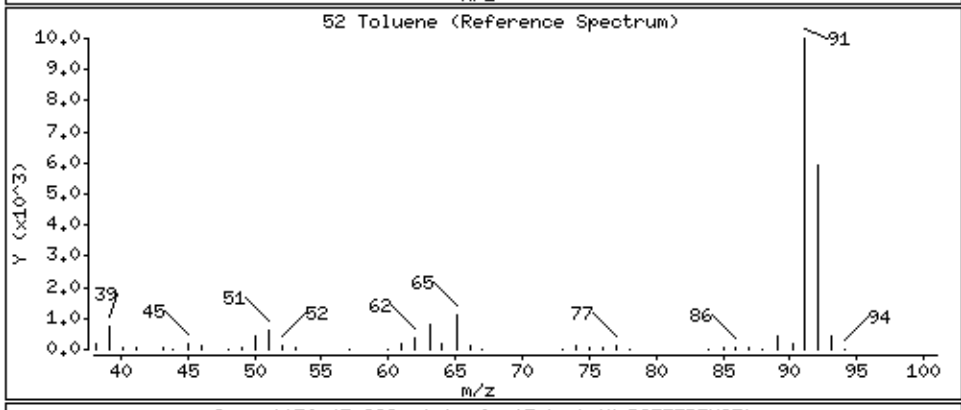
Concentration: 0.330 ppb

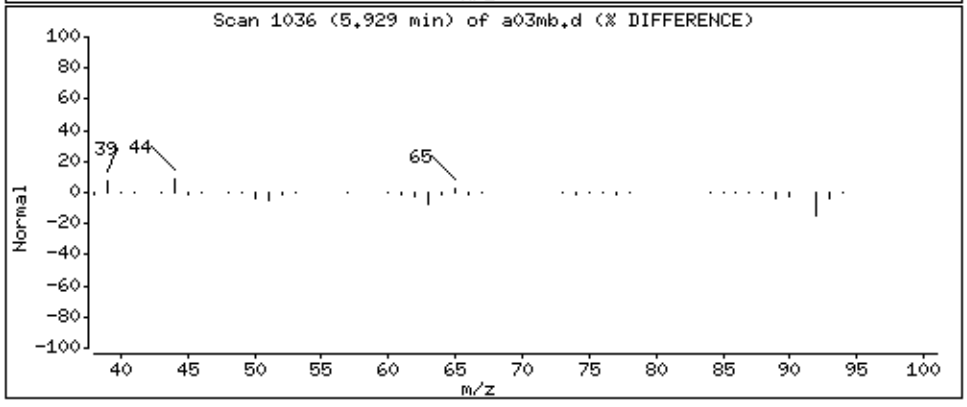












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

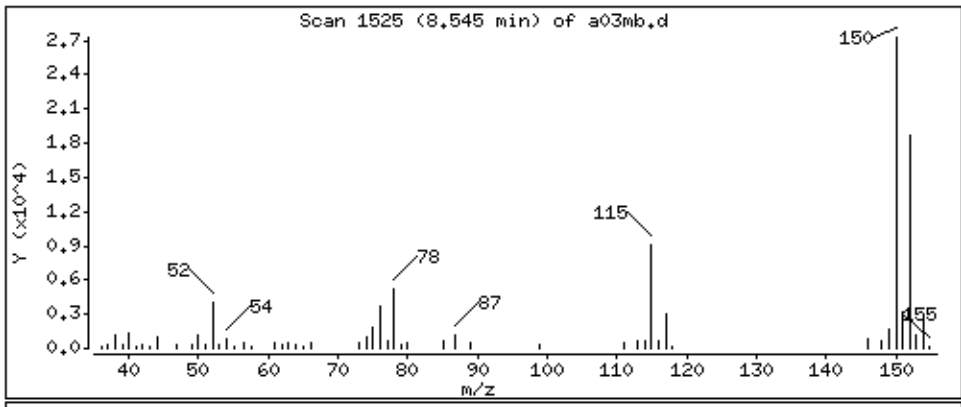
Operator: ala

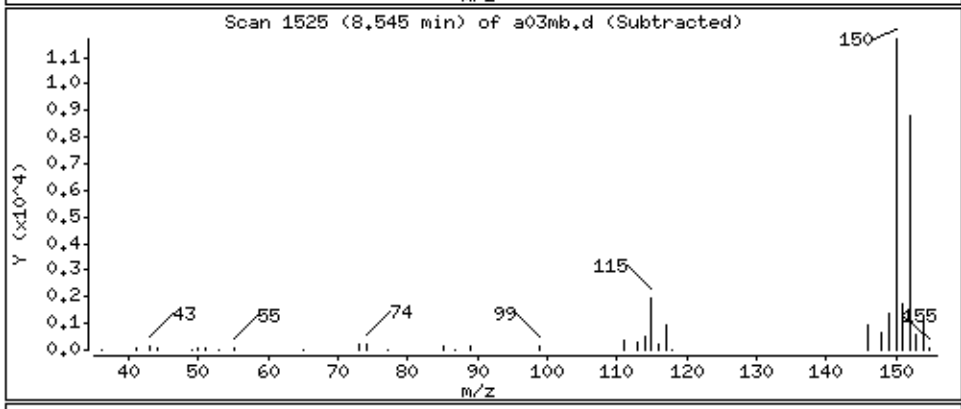
Column phase: DB-624

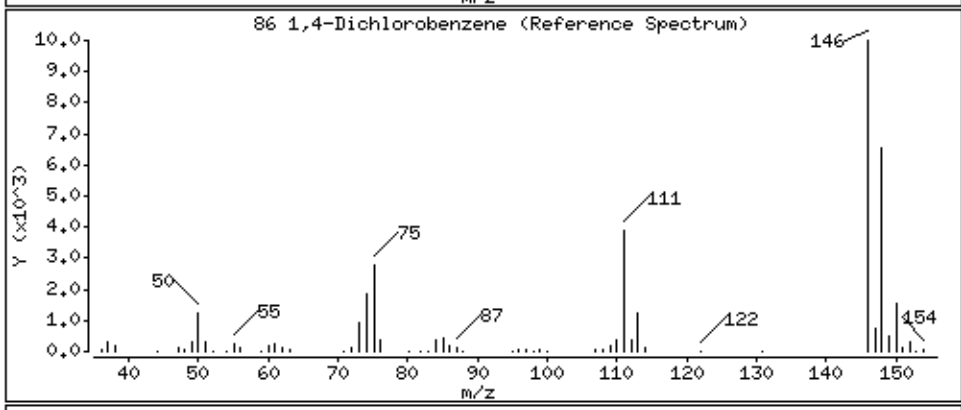
Column diameter: 0.18

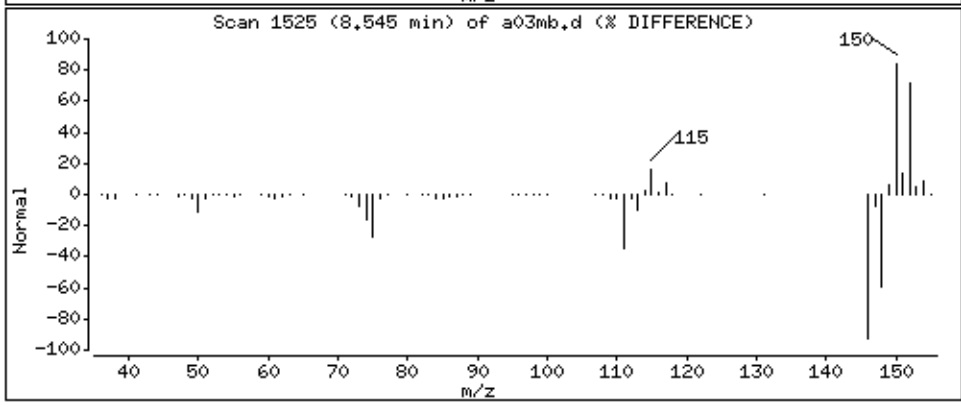
86 1,4-Dichlorobenzene

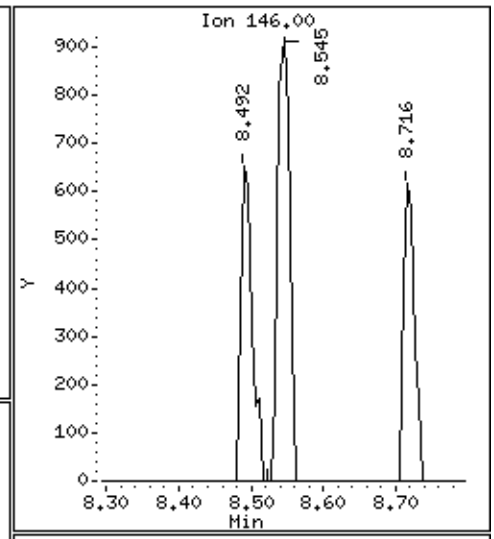
Concentration: 0.303 ppb

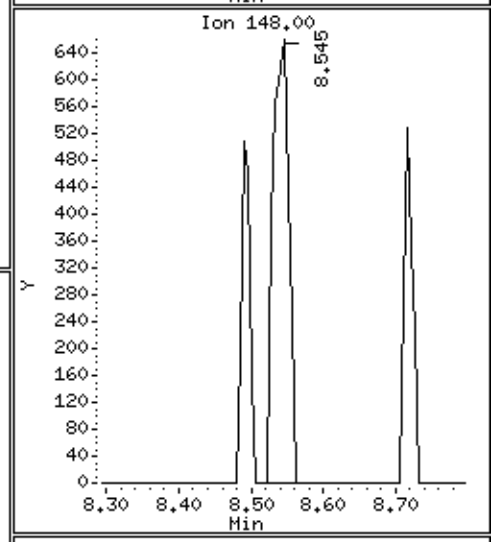


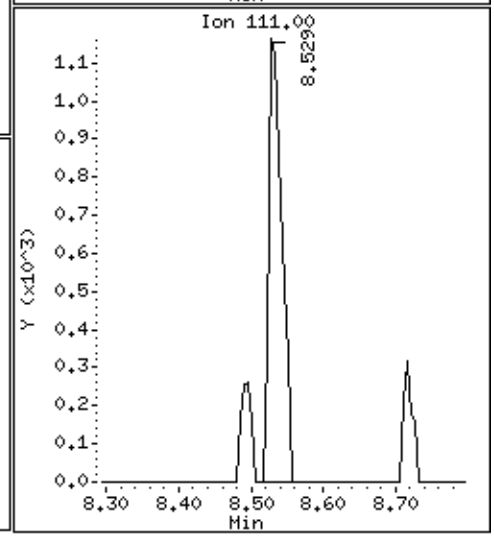












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

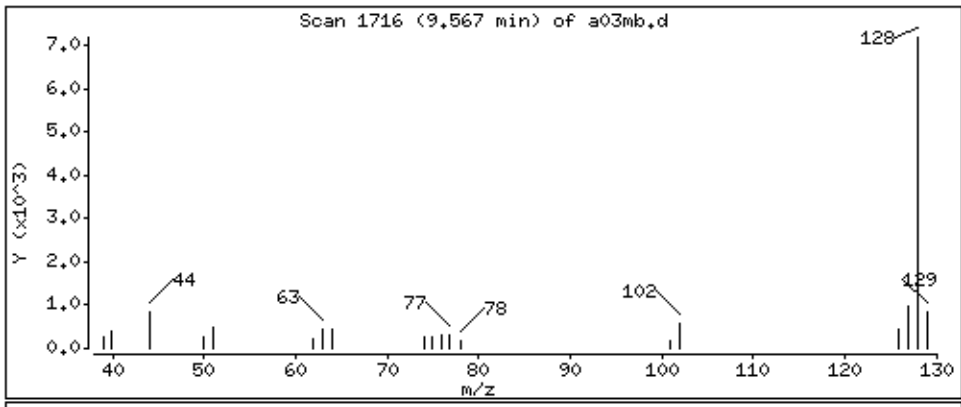
Operator: ala

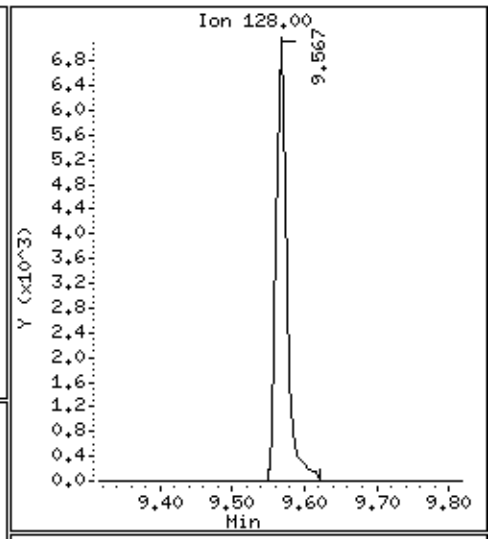
Column phase: DB-624

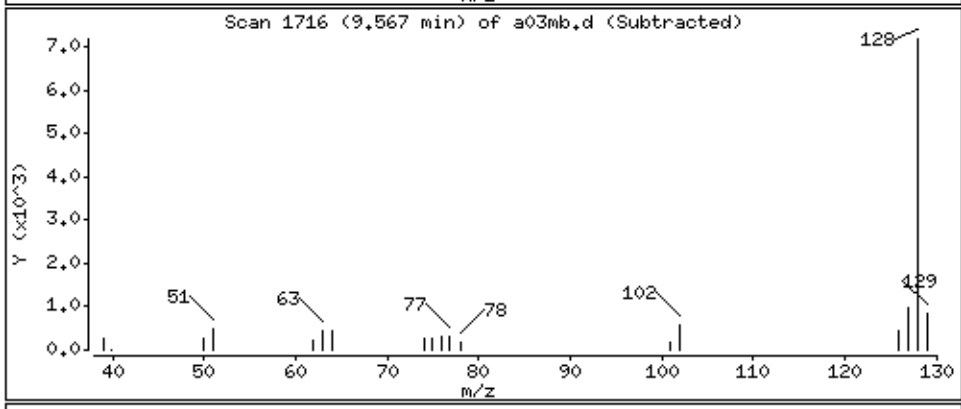
Column diameter: 0.18

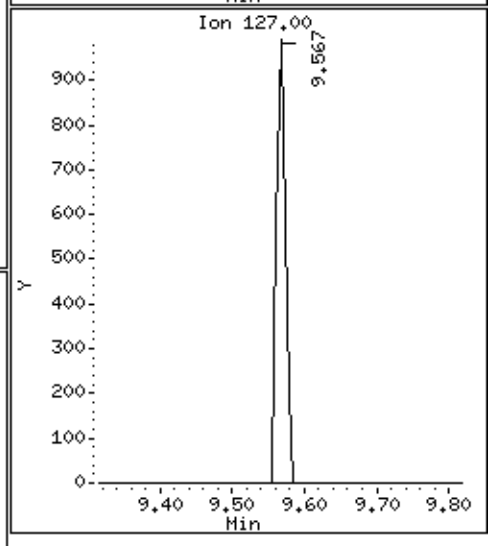
92 Naphthalene

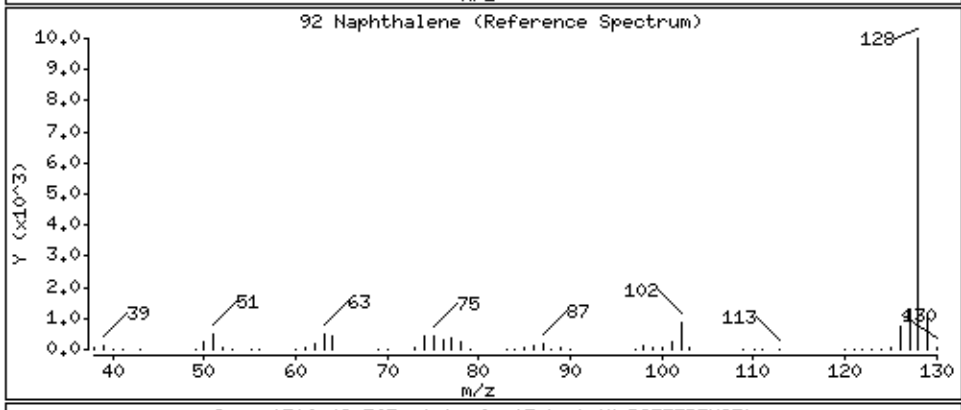
Concentration: 1.10 ppb

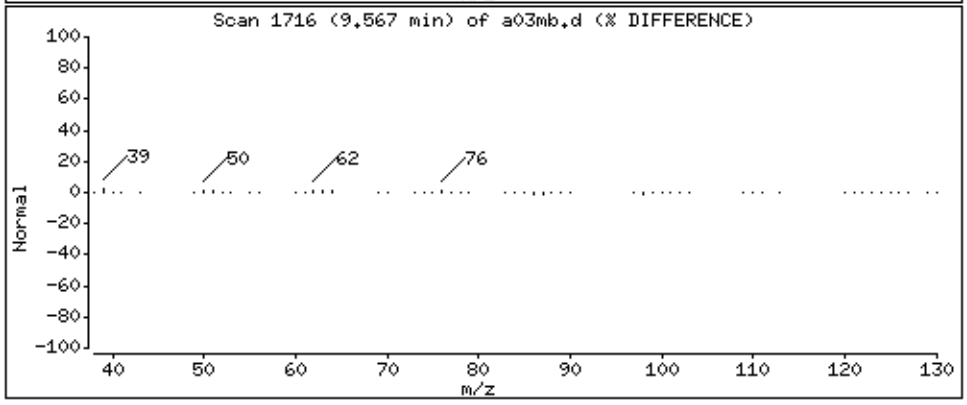












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

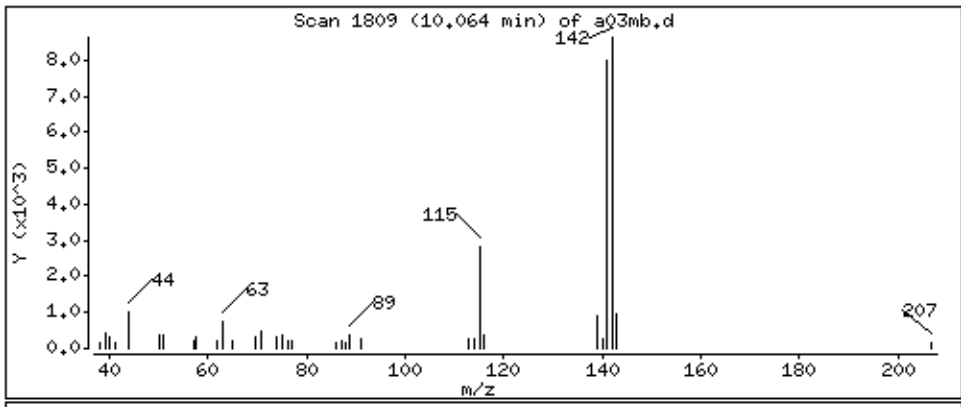
Operator: ala

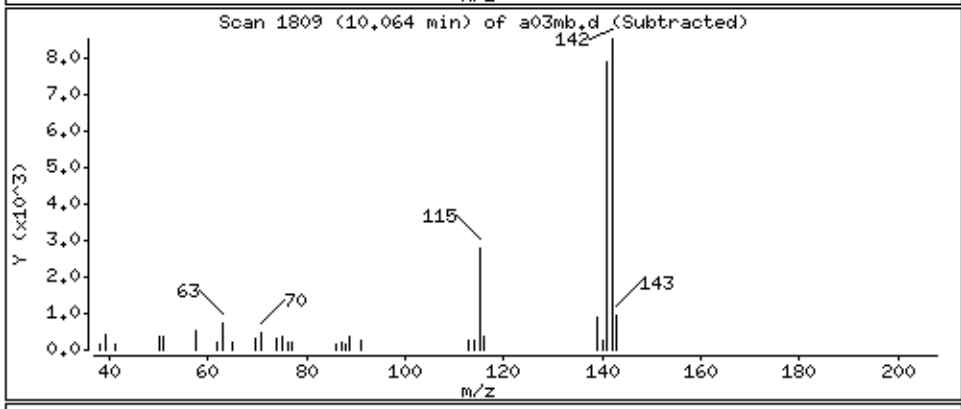
Column phase: DB-624

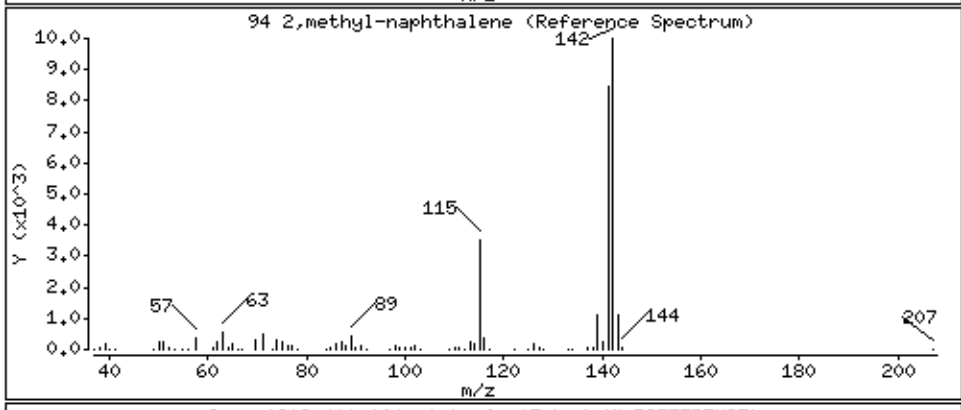
Column diameter: 0.18

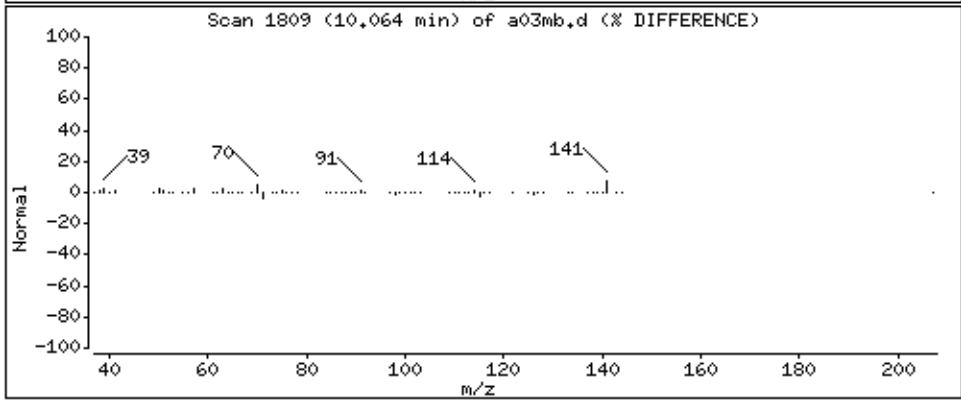
94 2,methyl-naphthalene

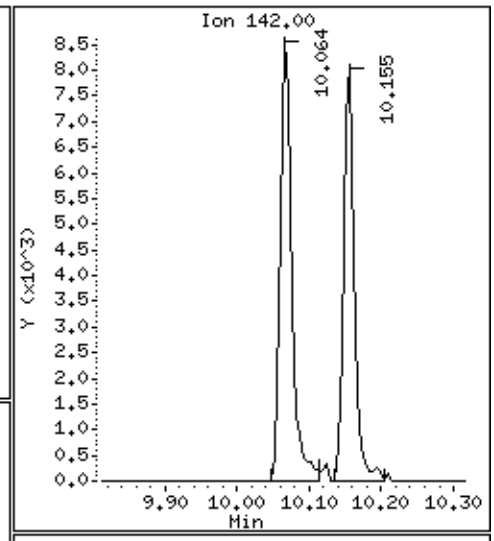
Concentration: 2.57 ppb

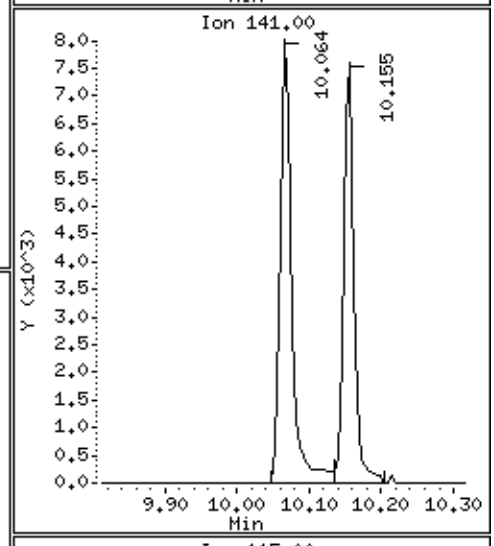


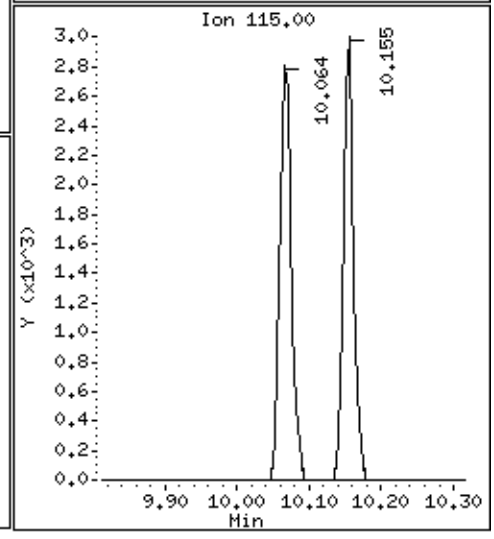












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a03mb.d

Date : 10-MAY-2016 16:10

Client ID: MB

Instrument: 50mv6a.i

Sample Info: 1536248

Purge Volume: 5.0

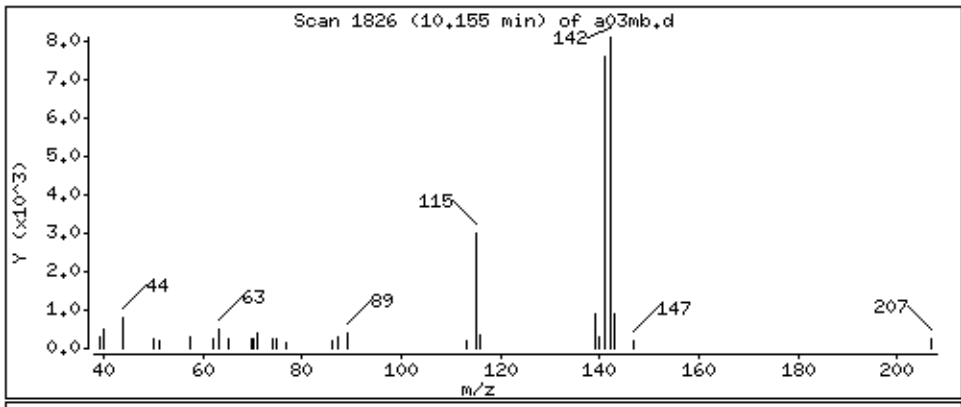
Operator: ala

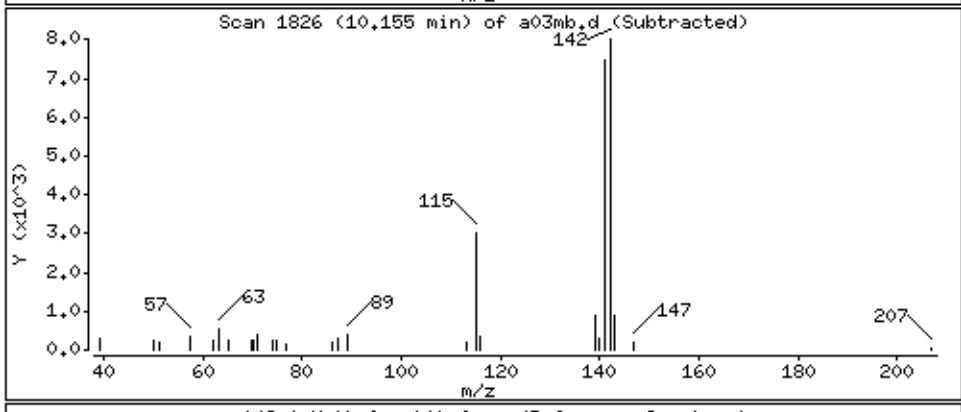
Column phase: DB-624

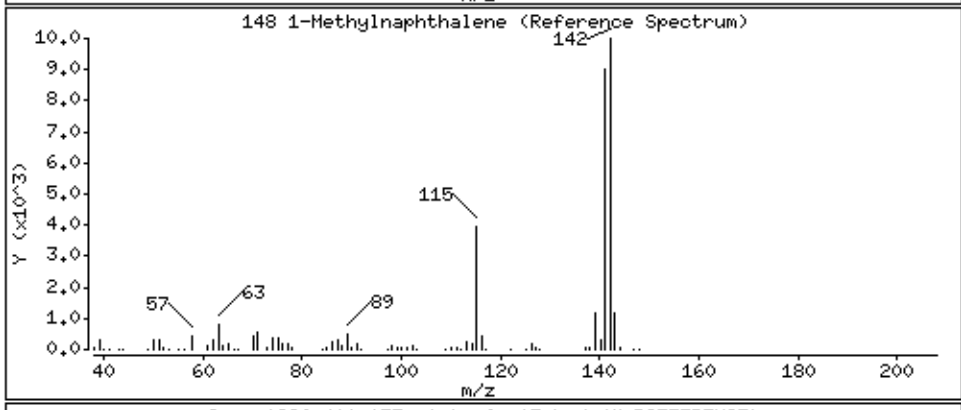
Column diameter: 0.18

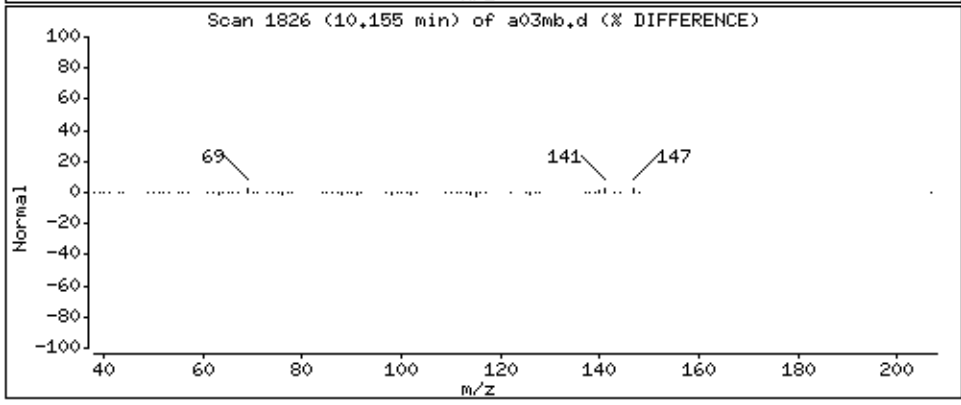
148 1-Methylnaphthalene

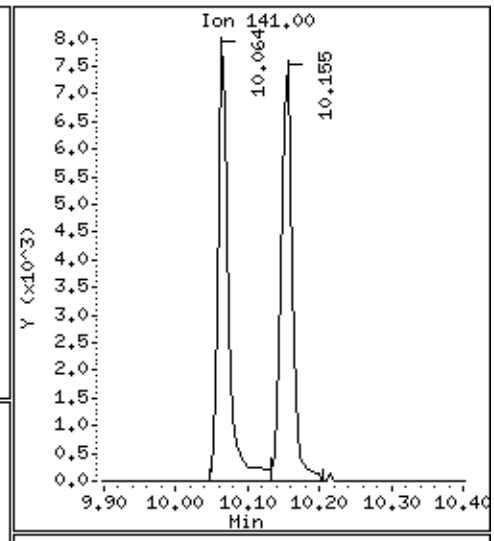
Concentration: 2.48 ppb

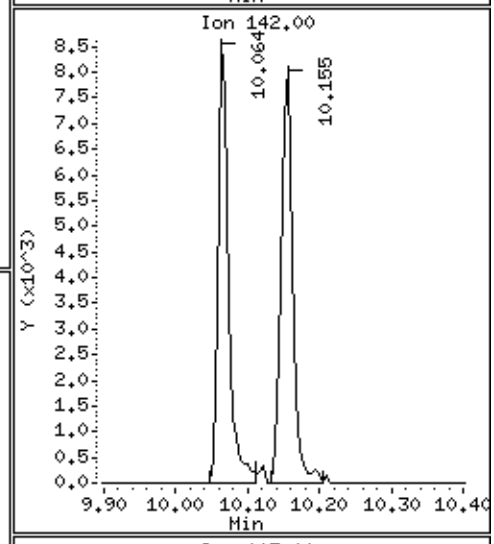


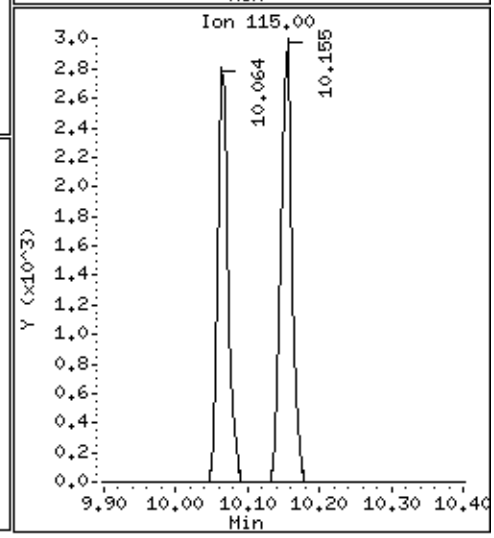












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a03mb.d
Injection Date: 10-MAY-2016 16:10
Instrument: 50mv6a.i
Lab Sample ID: 1536248
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

SAMPLE NO.

LCS

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana Contract: Racer Trust, Kokomo

Date Received: Matrix: Water SDG No.: 50143942

Date Extracted: 05/10/2016 15:32 Lab Sample ID: 1536249

Date Analyzed: 05/10/2016 15:32 Lab File ID: A051016.B\A02LCS.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 50MV6A Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
71-43-2	Benzene	43.3	
108-90-7	Chlorobenzene	44.4	
67-66-3	Chloroform	40.0	
75-35-4	1,1-Dichloroethene	46.0	
156-59-2	cis-1,2-Dichloroethene	40.4	
156-60-5	trans-1,2-Dichloroethene	42.1	
78-87-5	1,2-Dichloropropane	42.1	
10061-01-5	cis-1,3-Dichloropropene	48.6	
10061-02-6	trans-1,3-Dichloropropene	47.1	
100-41-4	Ethylbenzene	45.1	
98-82-8	Isopropylbenzene (Cumene)	45.8	
1634-04-4	Methyl-tert-butyl ether	46.6	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	
127-18-4	Tetrachloroethene	46.8	
108-88-3	Toluene	43.7	
71-55-6	1,1,1-Trichloroethane	39.3	
79-01-6	Trichloroethene	41.7	
75-01-4	Vinyl chloride	51.5	
1330-20-7	Xylene (Total)	134	

Pace Analytical Services, Inc.

Data file : \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d
Lab Smp Id: 1536249 Client Smp ID: MBLCS
Inj Date : 10-MAY-2016 15:32
Operator : ala Inst ID: 50mv6a.i
Smp Info : 1536249,120044:5
Misc Info : 90006
Comment :
Method : \\192.168.50.6\chem\50mv6a.i\a051016.b\-a8260sl_a_c.m
Meth Date : 11-May-2016 12:26 50mv6a.i Quant Type: ISTD
Cal Date : 09-MAY-2016 19:37 Cal File: a01.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260ss.sub
Target Version: 4.14

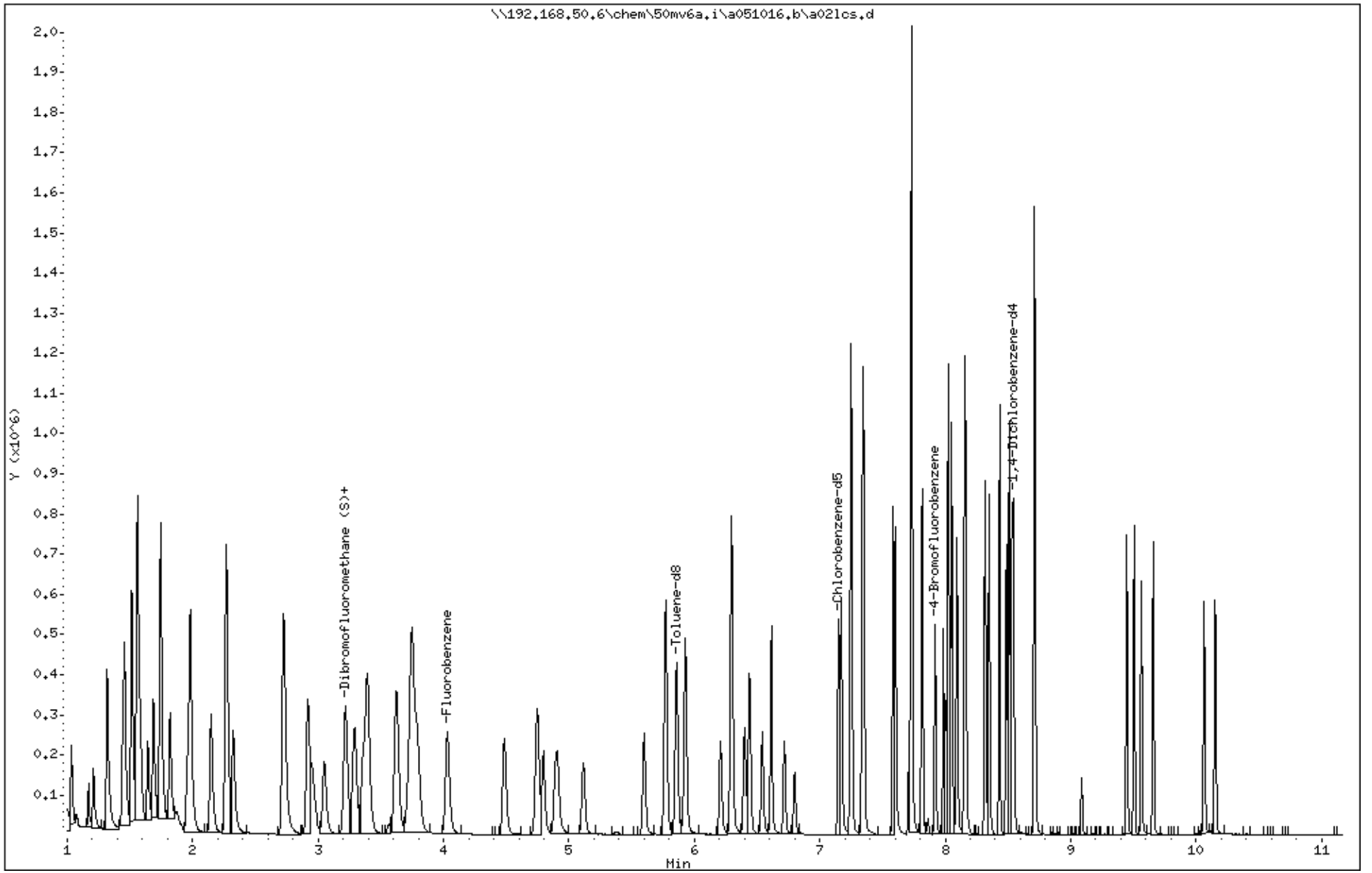
Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
	3 Vinyl Chloride	62	1.034	1.034	(0.257)	138437	51.4770	51.5
	11 1,1-Dichloroethene	96	1.558	1.558	(0.387)	105139	46.0373	46.0
	20 Methyl-tert-butyl ether	73	1.975	1.975	(0.490)	231451	46.6482	46.6
	21 1,2-Dichloroethene (trans)	96	1.981	1.980	(0.492)	90631	42.1104	42.1
	26 1,2-Dichloroethene (cis)	96	2.724	2.724	(0.676)	94431	40.4123	40.4
	32 Chloroform	83	3.050	3.050	(0.757)	157074	39.9582	40.0
	34 1,1,1-Trichloroethane	97	3.216	3.216	(0.798)	149361	39.2627	39.3
$	33 Dibromofluoromethane (S)	113	3.222	3.222	(0.800)	91090	46.5275	46.5
	39 Benzene	78	3.628	3.628	(0.900)	305139	43.3157	43.3
*	41 Fluorobenzene	96	4.029	4.029	(1.000)	289042	50.0000	
	42 Trichloroethene	95	4.484	4.484	(1.113)	87967	41.6838	41.7
	44 1,2-Dichloropropane	63	4.794	4.794	(1.190)	77330	42.0531	42.0
	49 cis-1,3-Dichloropropene	75	5.597	5.597	(0.782)	130660	48.6368	48.6
$	51 Toluene-d8	98	5.859	5.859	(0.819)	263137	50.0329	50.0
	52 Toluene	91	5.929	5.929	(0.829)	319526	43.7287	43.7
	53 trans-1,3-Dichloropropene	75	6.212	6.212	(0.868)	116043	47.0990	47.1
	56 Tetrachloroethene	166	6.437	6.442	(0.900)	96023	46.8338	46.8
*	61 Chlorobenzene-d5	117	7.154	7.154	(1.000)	198205	50.0000	
	62 Chlorobenzene	112	7.170	7.175	(1.002)	201966	44.3964	44.4
	64 Ethylbenzene	106	7.250	7.250	(1.013)	109384	45.1198	45.1
	65 m&p-Xylene	106	7.346	7.346	(1.027)	266291	89.8495	89.8
	67 o-Xylene	106	7.587	7.587	(1.061)	125458	43.8101	43.8
	70 Isopropylbenzene	105	7.817	7.817	(1.093)	340989	45.8328	45.8

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ppb)
$	72	4-Bromofluorobenzene	95	7.919	7.919	(1.107)	91383	49.1270	49.1
	73	1,1,2,2-Tetrachloroethane	83	8.004	8.004	(0.938)	91821	43.1747	43.2
	81	1,2,4-Trimethylbenzene	105	8.347	8.347	(0.978)	247952	42.1780	42.2
*	85	1,4-Dichlorobenzene-d4	152	8.534	8.534	(1.000)	109319	50.0000	
	92	Naphthalene	128	9.566	9.566	(1.121)	279384	38.4681	38.5

Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d
Date : 10-MAY-2016 15:32
Client ID: MBLCS
Instrument: 50mv6a.i
Sample Info: 1536249,120044:5
Purge Volume: 5.0
Operator: ala
Column phase: DB-624
Column diameter: 0.18



Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

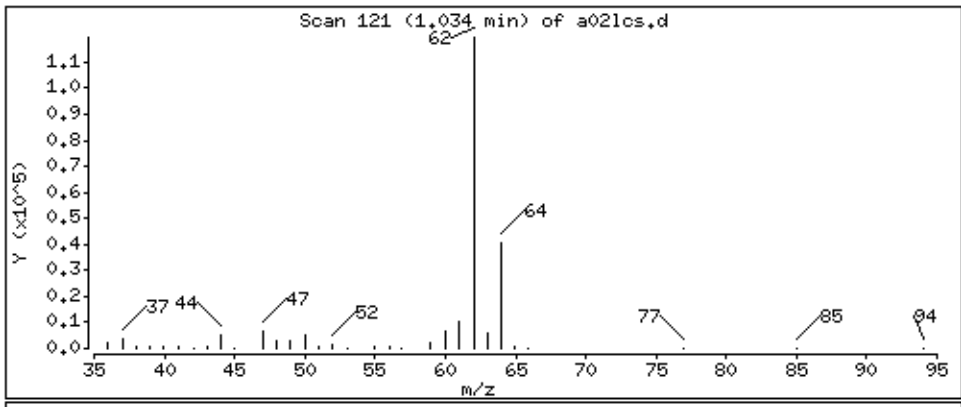
Operator: ala

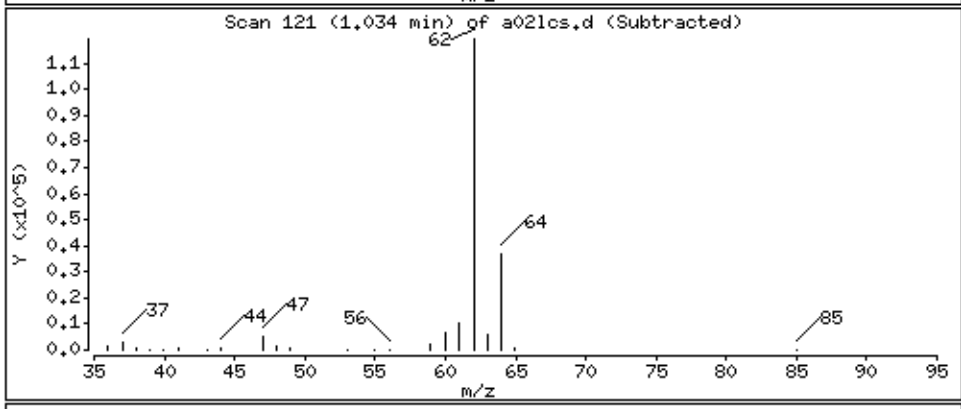
Column phase: DB-624

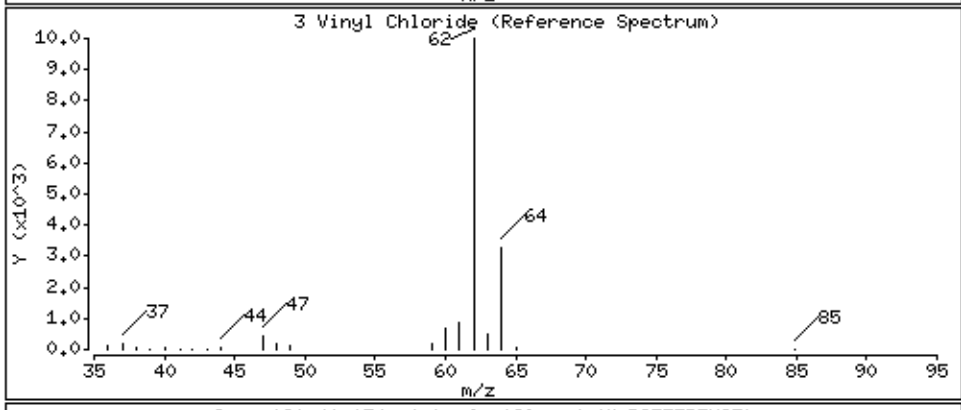
Column diameter: 0.18

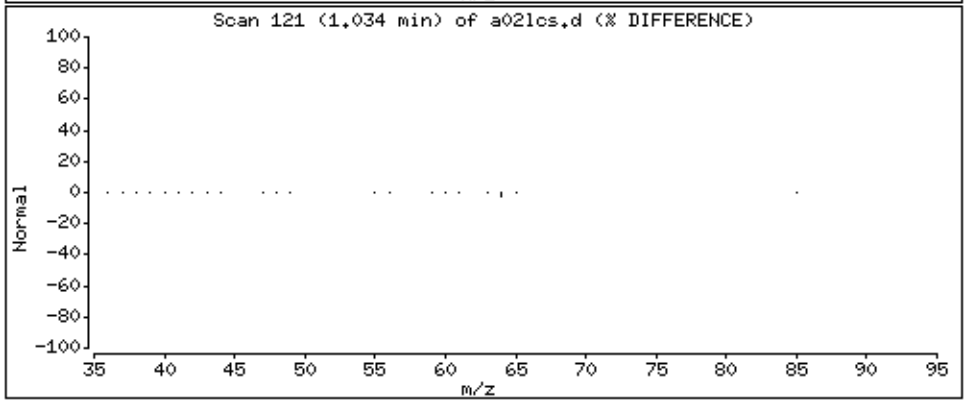
3 Vinyl Chloride

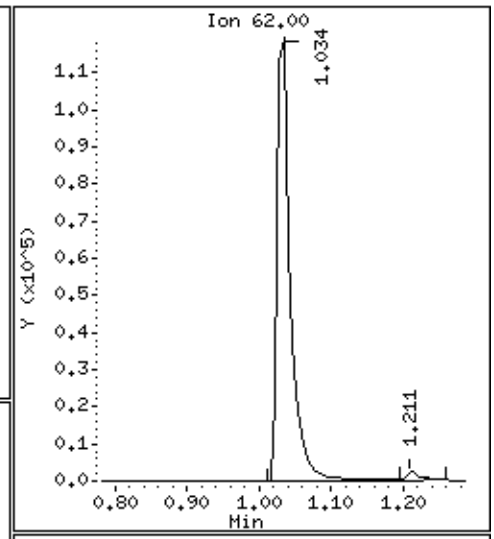
Concentration: 51.5 ppb

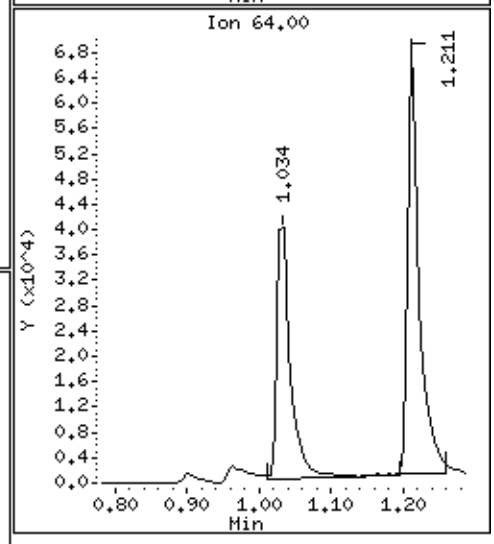












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

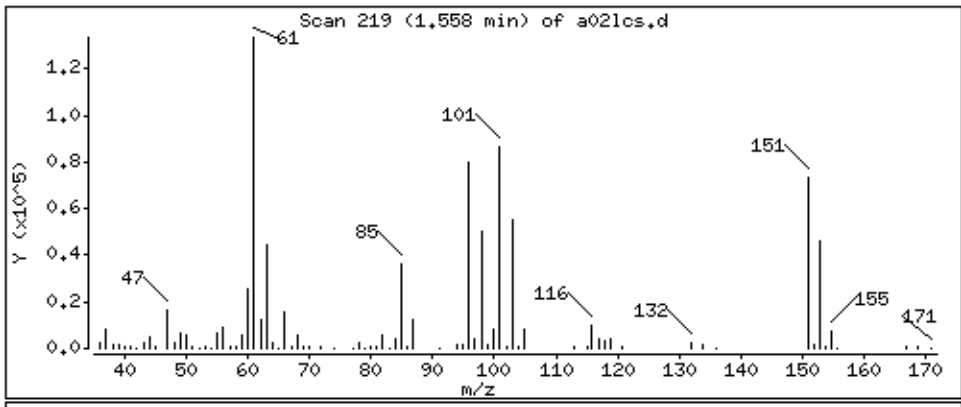
Operator: ala

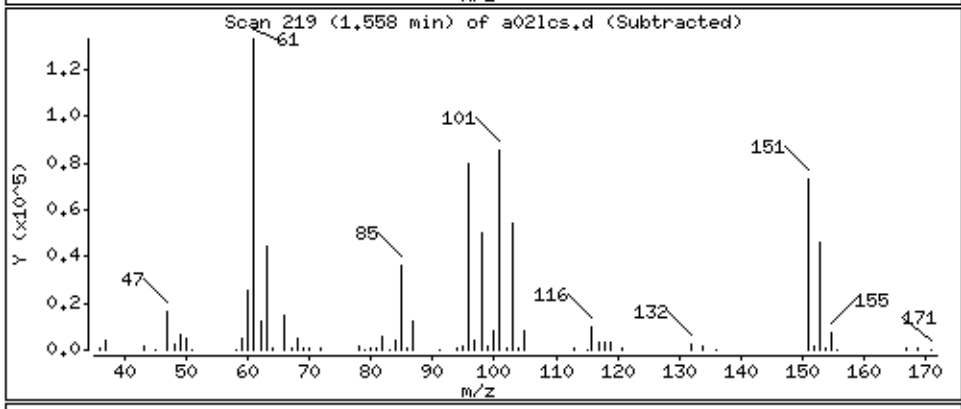
Column phase: DB-624

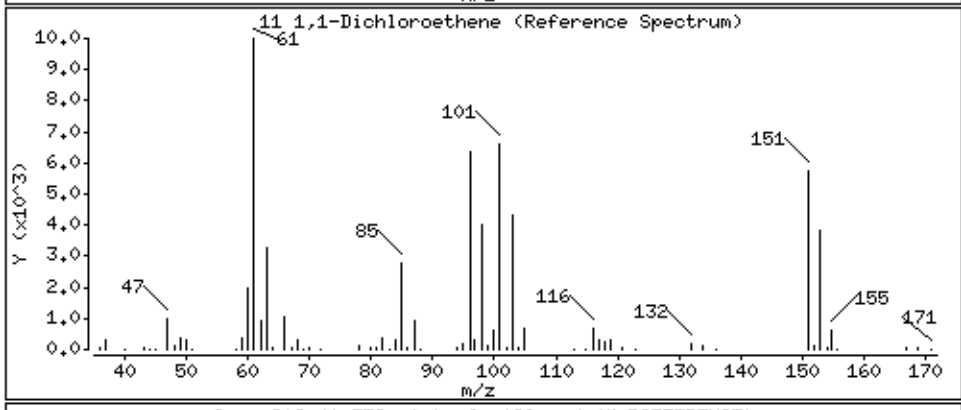
Column diameter: 0.18

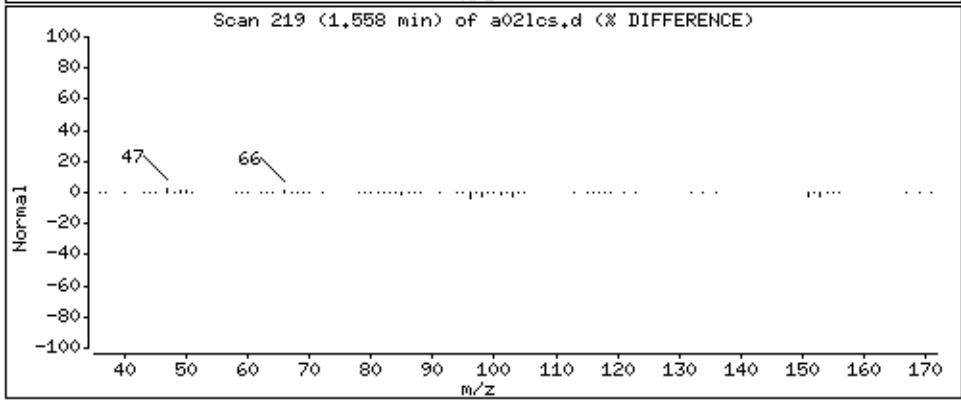
11 1,1-Dichloroethene

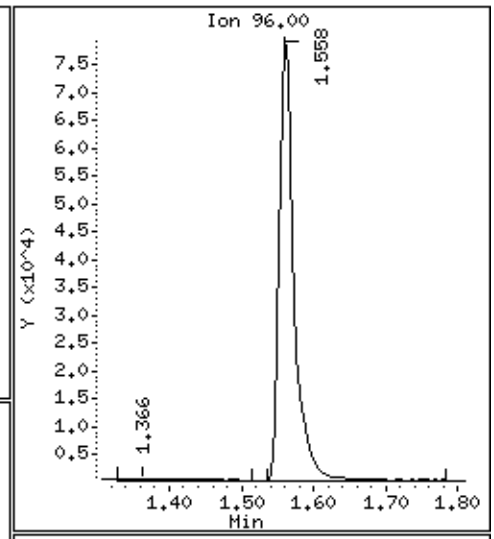
Concentration: 46.0 ppb

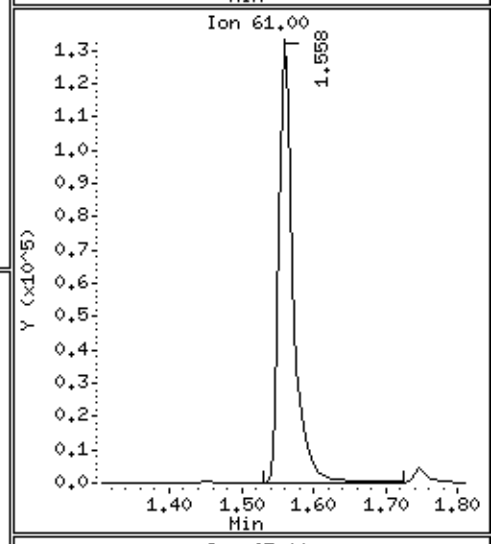


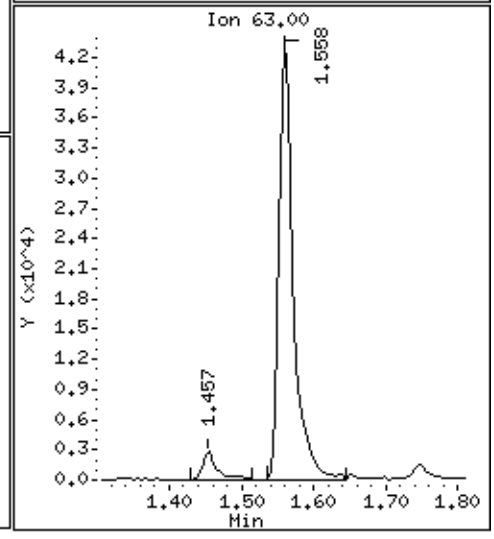












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

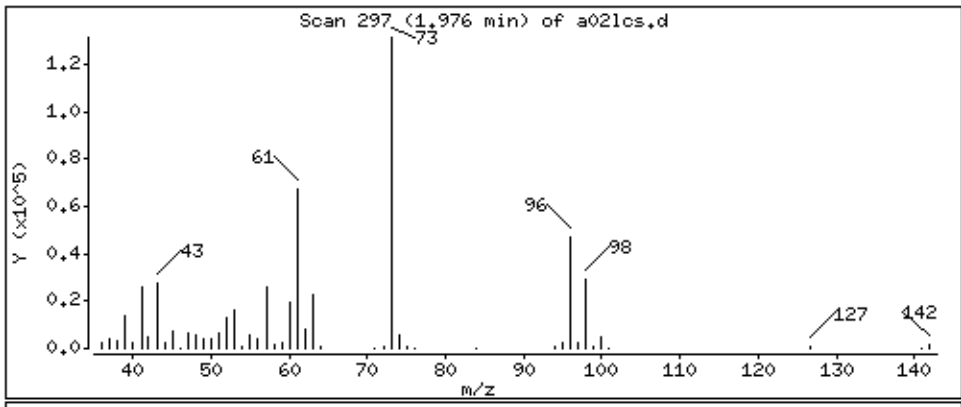
Operator: ala

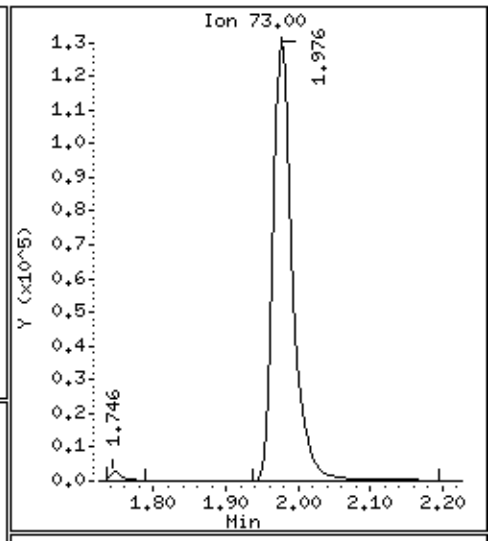
Column phase: DB-624

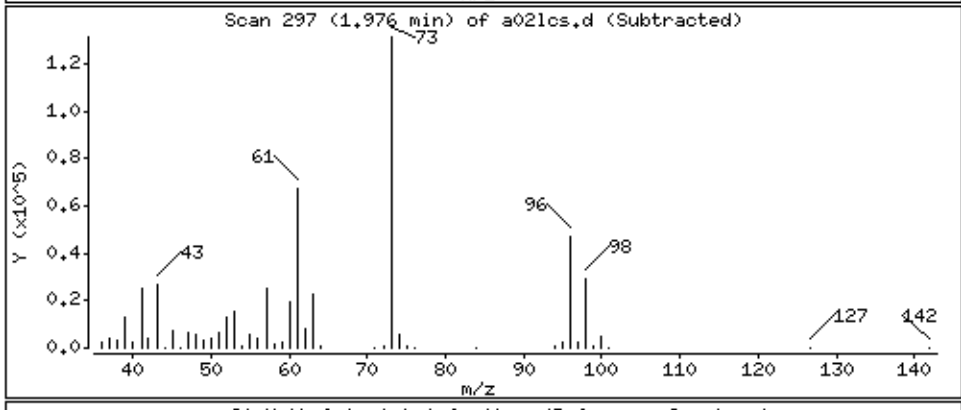
Column diameter: 0.18

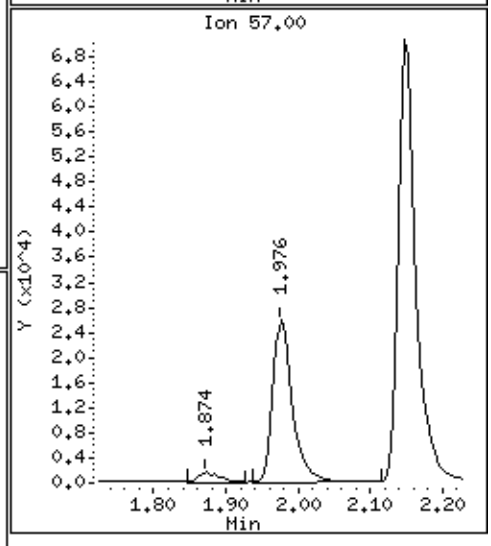
20 Methyl-tert-butyl ether

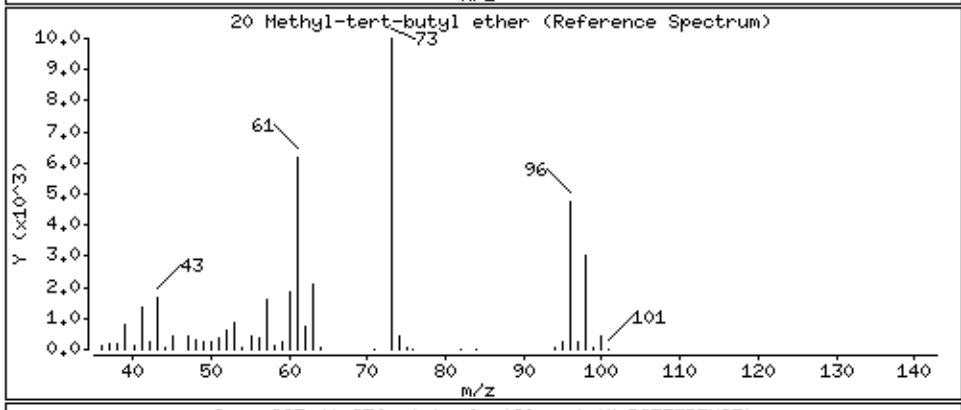
Concentration: 46.6 ppb

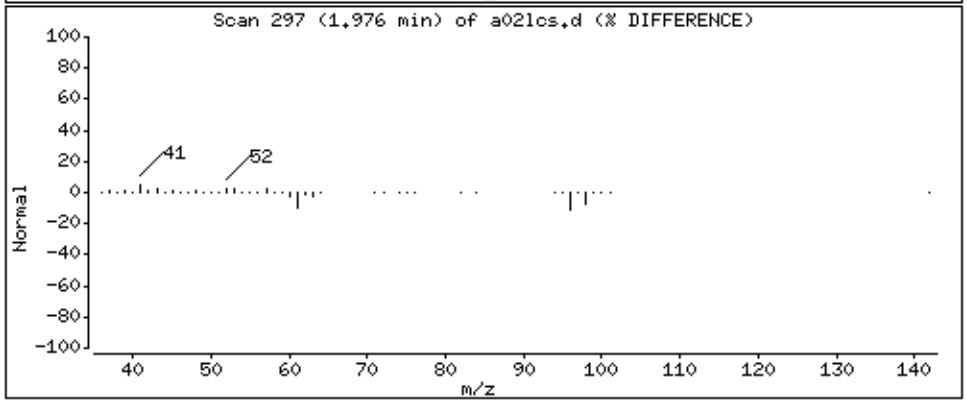












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

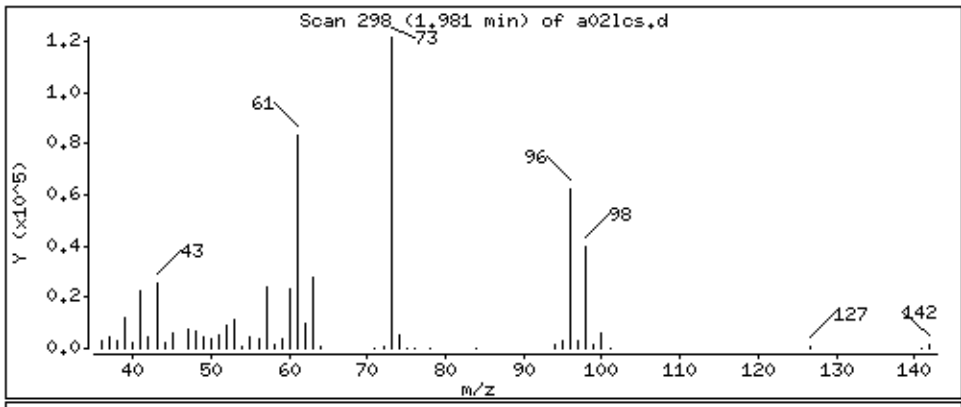
Operator: ala

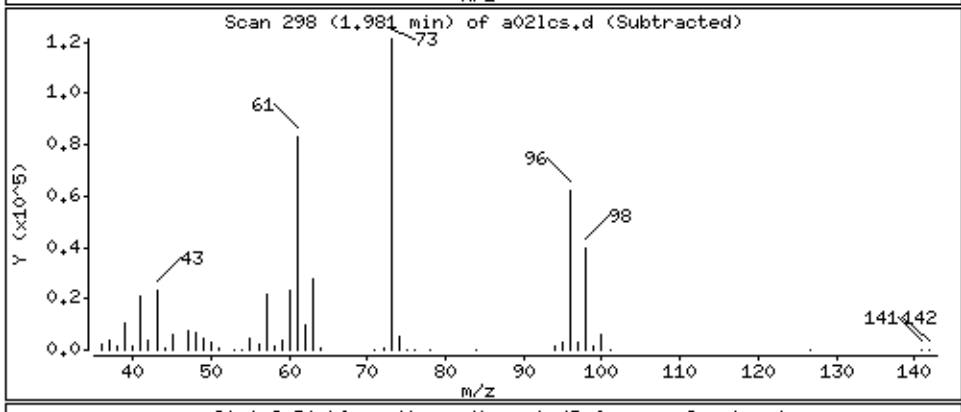
Column phase: DB-624

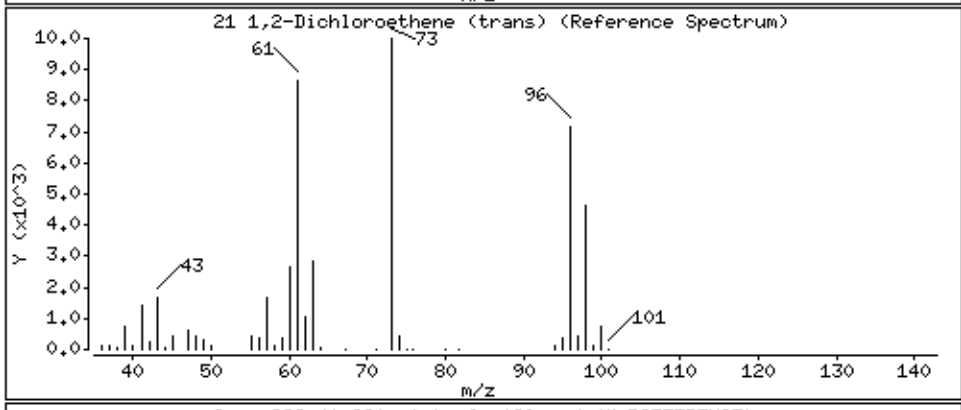
Column diameter: 0.18

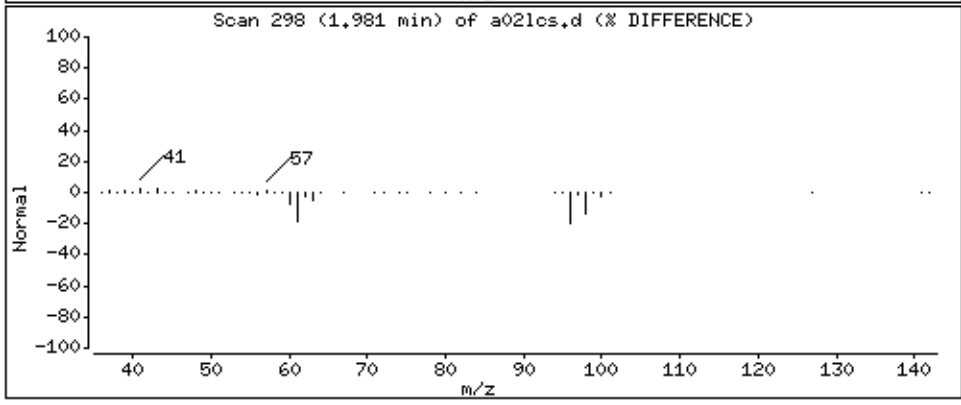
21 1,2-Dichloroethene (trans)

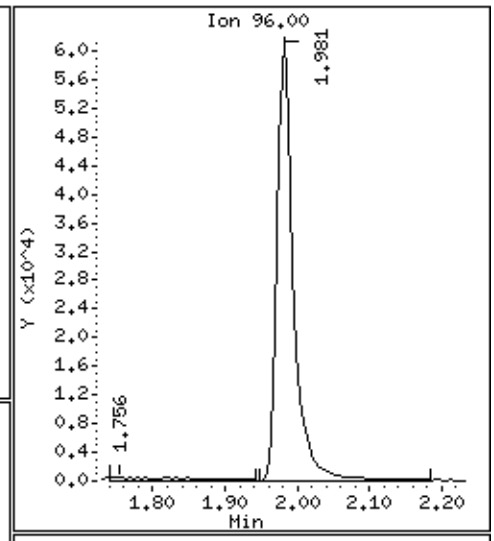
Concentration: 42.1 ppb

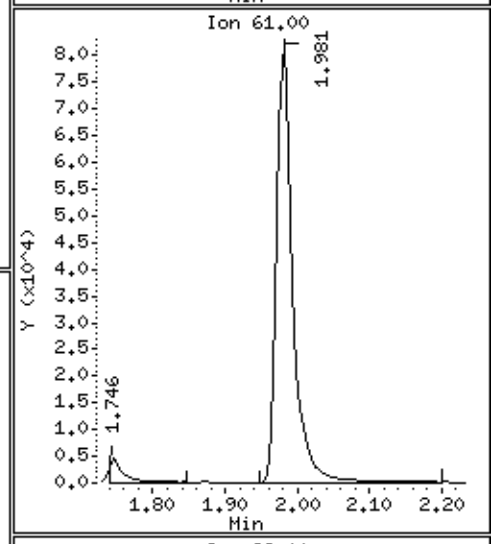


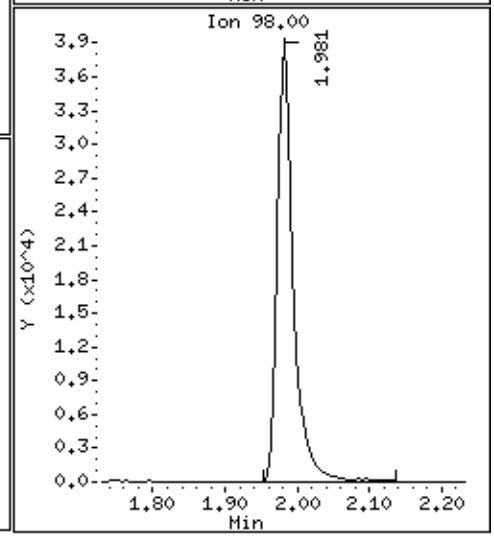












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

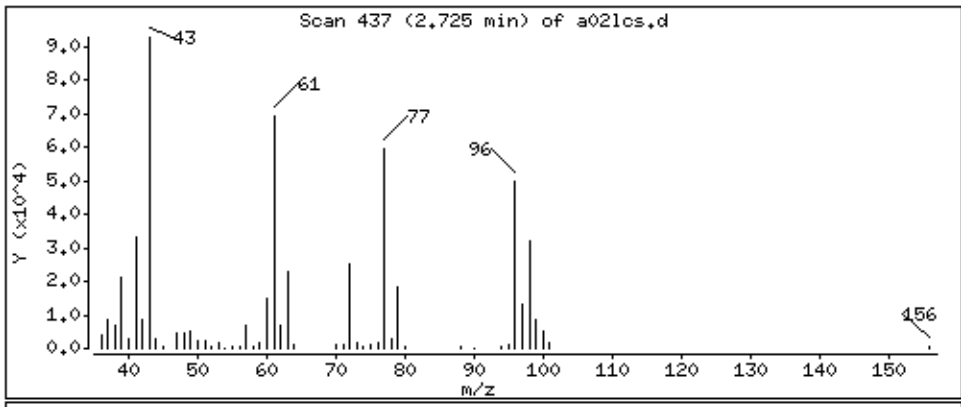
Operator: ala

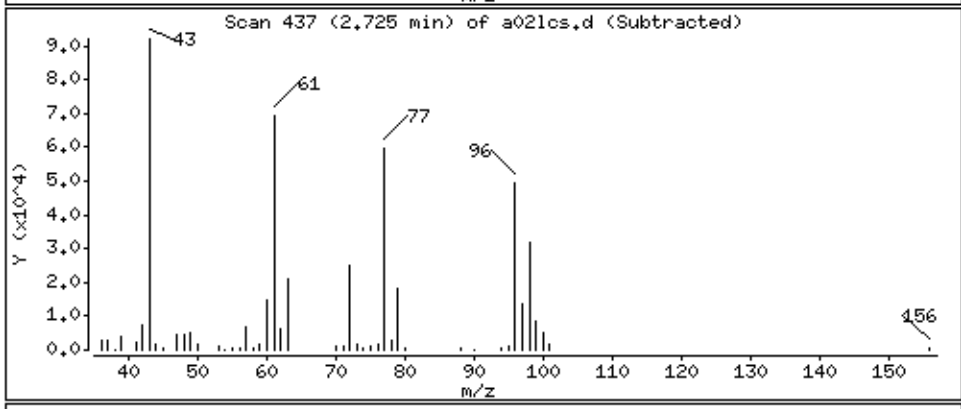
Column phase: DB-624

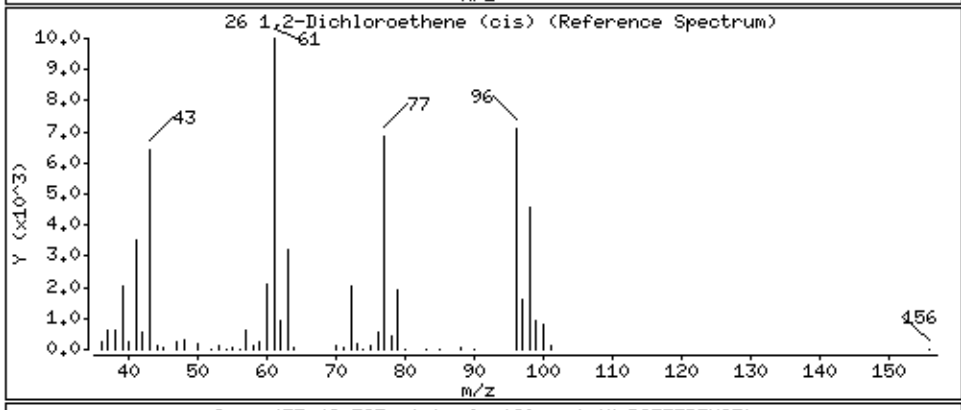
Column diameter: 0.18

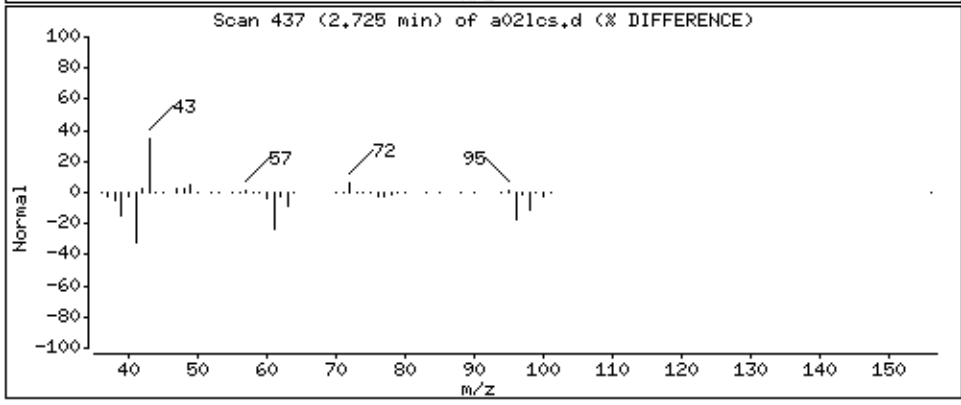
26 1,2-Dichloroethene (cis)

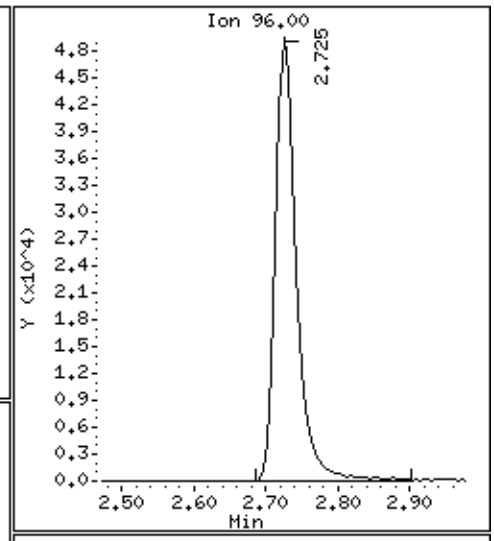
Concentration: 40.4 ppb

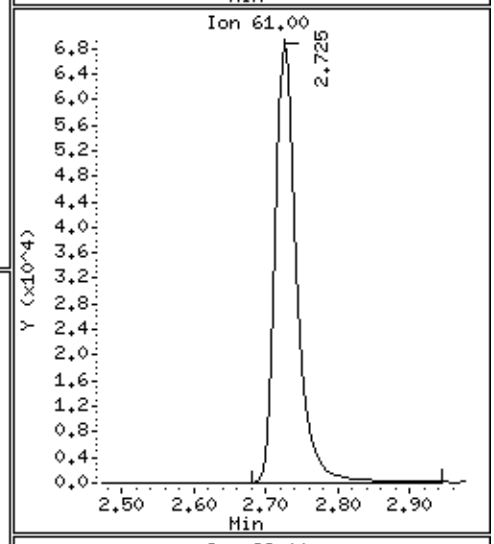


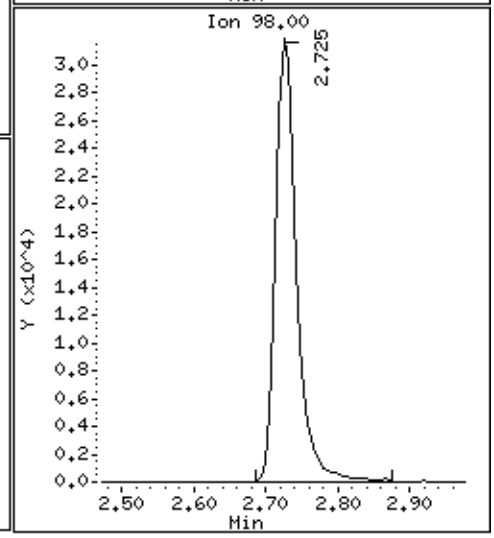












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

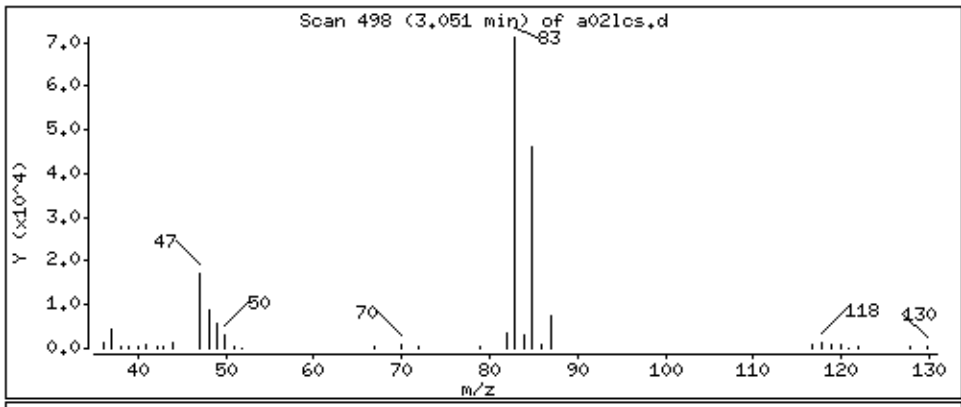
Operator: ala

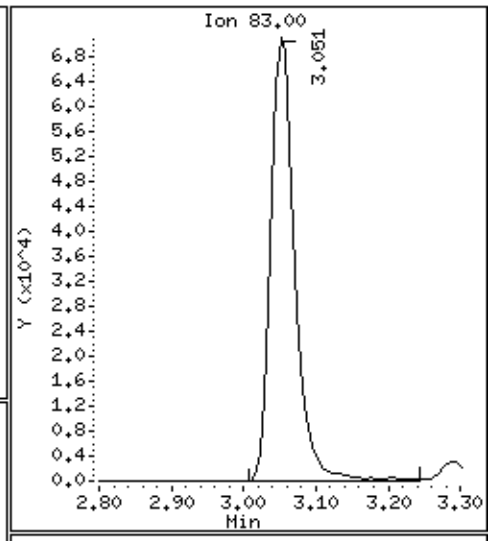
Column phase: DB-624

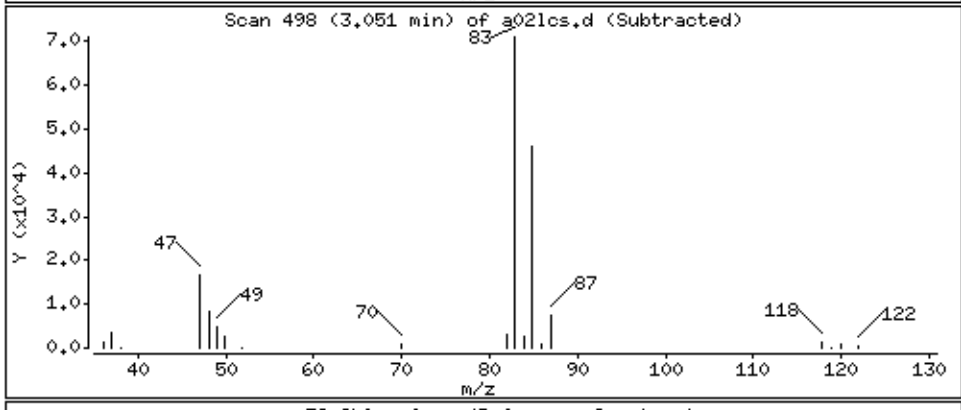
Column diameter: 0.18

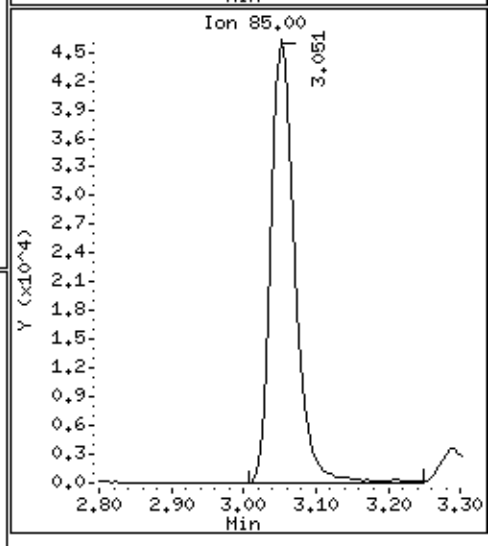
32 Chloroform

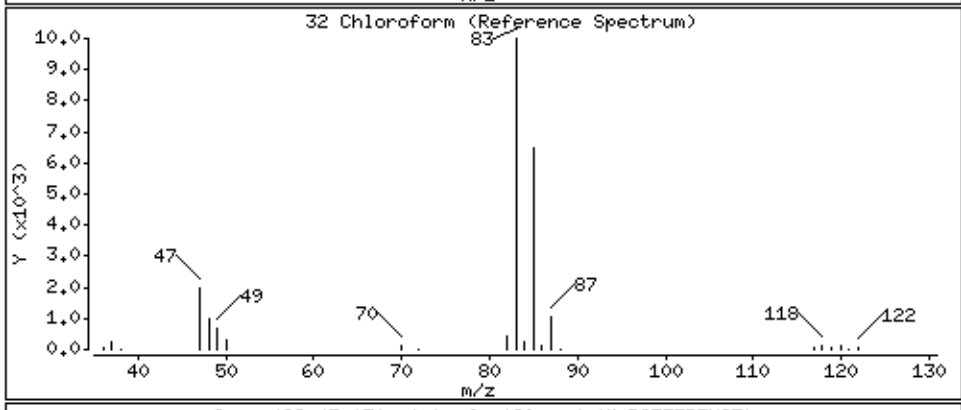
Concentration: 40.0 ppb

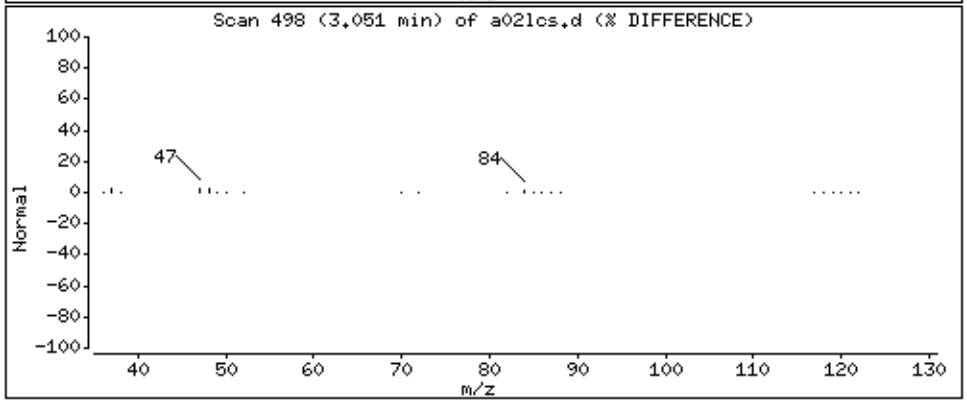












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

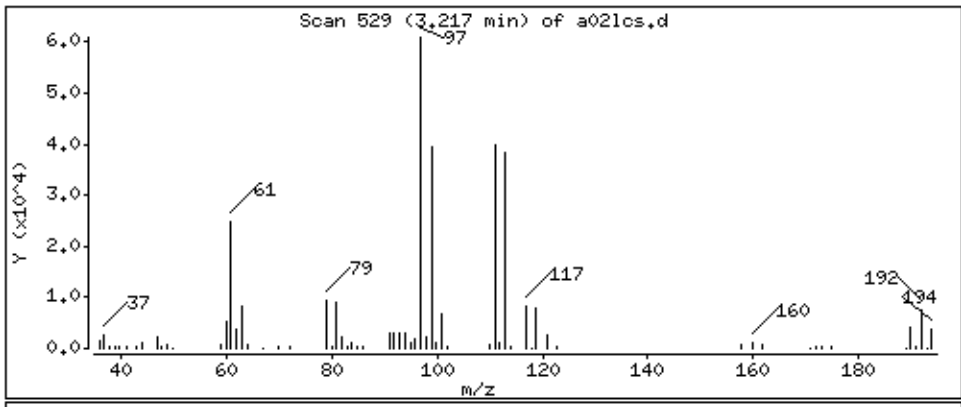
Operator: ala

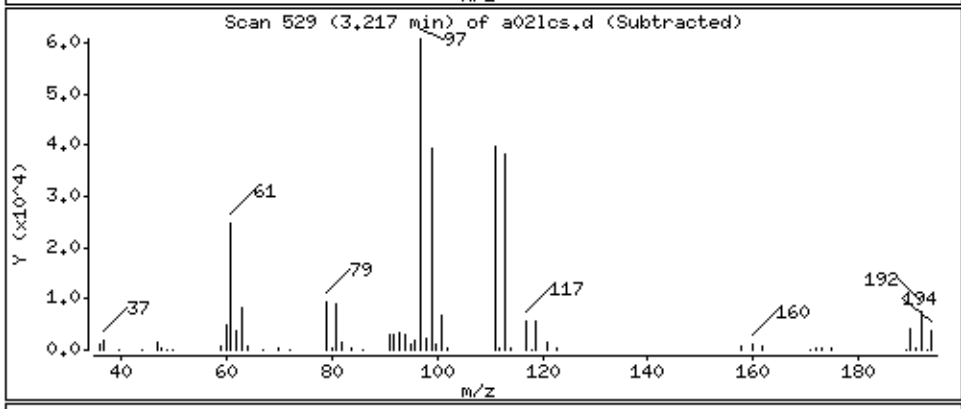
Column phase: DB-624

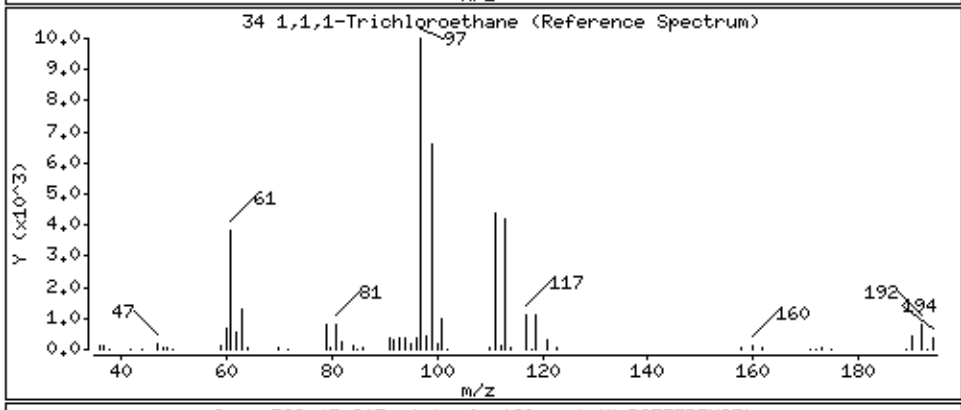
Column diameter: 0.18

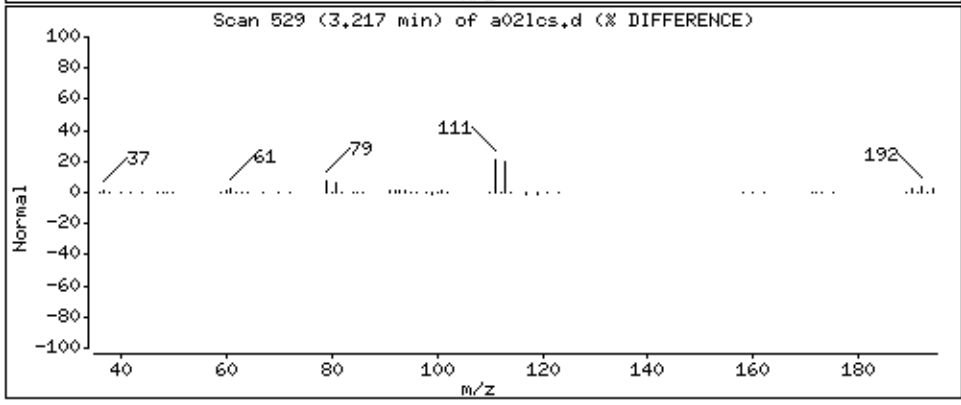
34 1,1,1-Trichloroethane

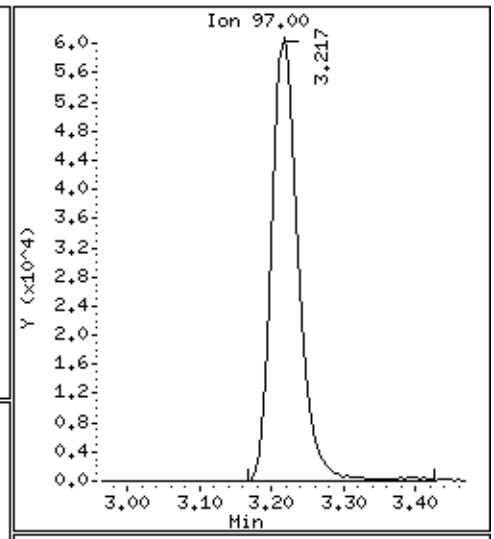
Concentration: 39.3 ppb

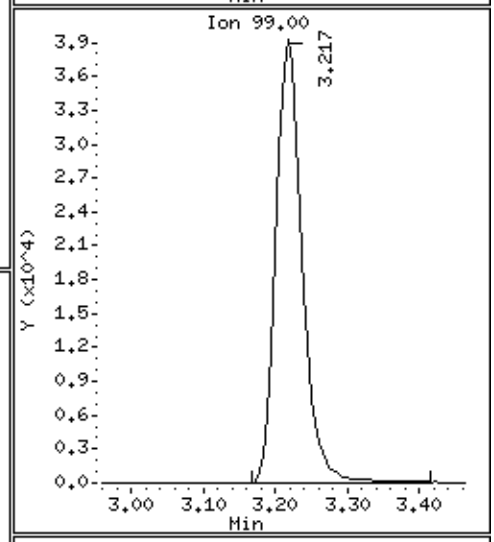


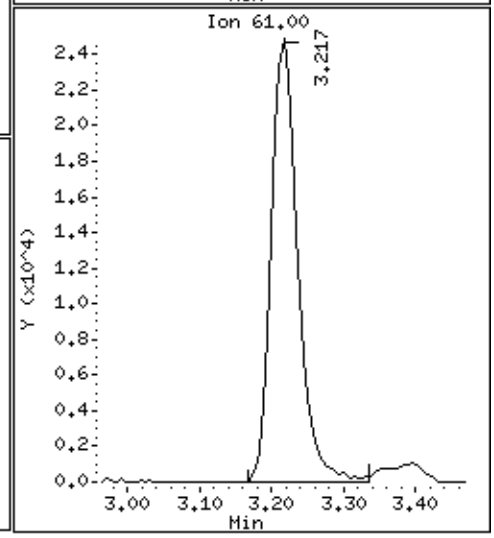












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

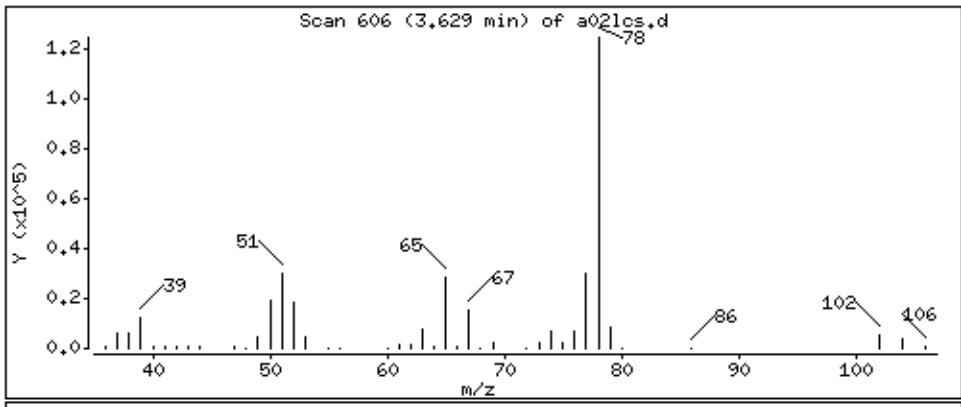
Operator: ala

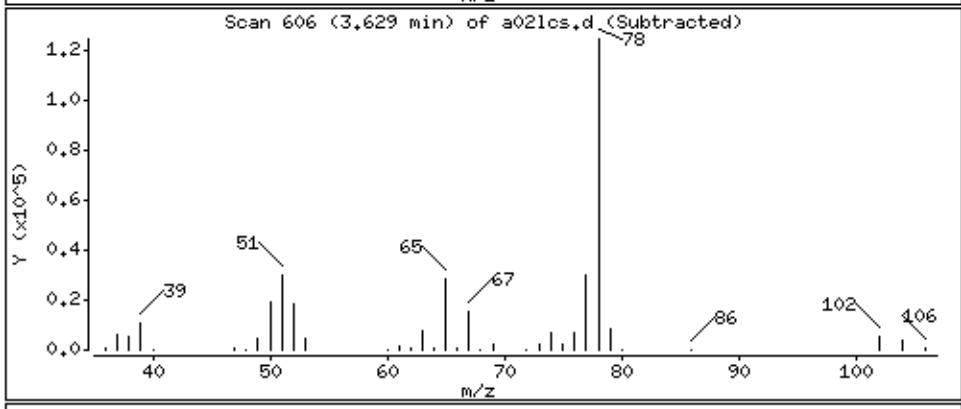
Column phase: DB-624

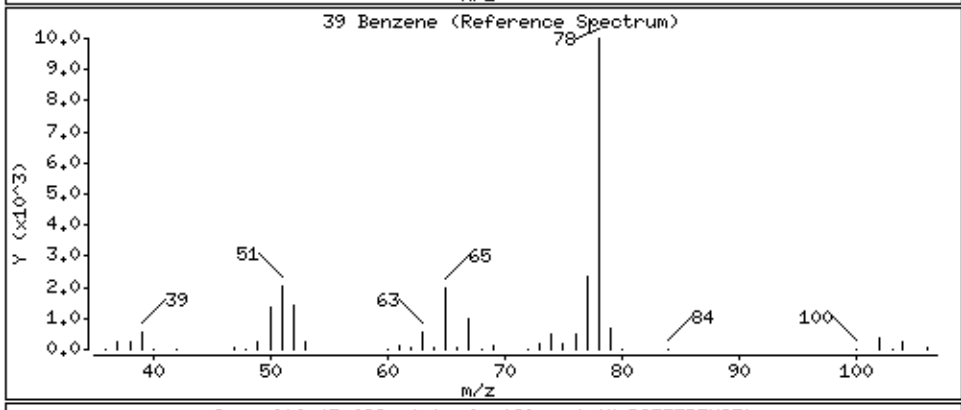
Column diameter: 0.18

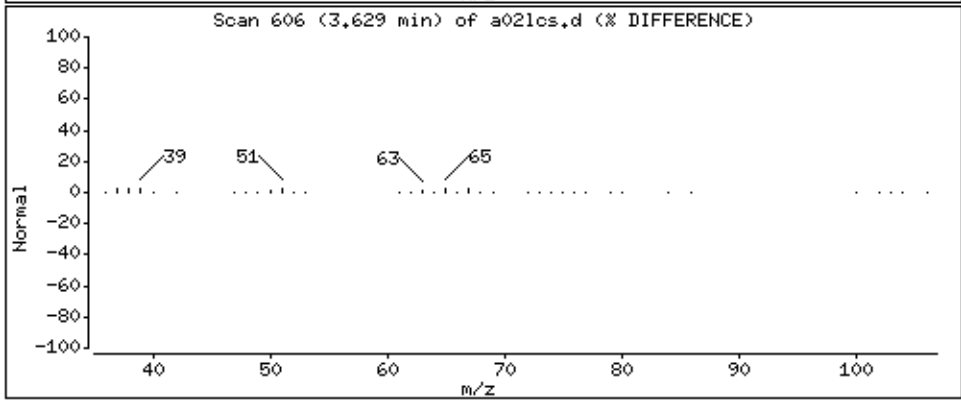
39 Benzene

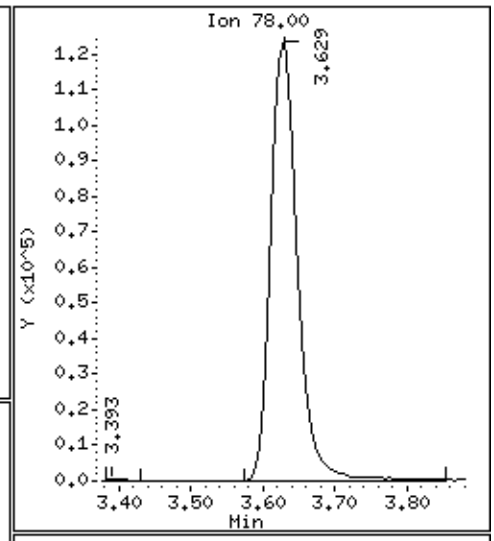
Concentration: 43.3 ppb

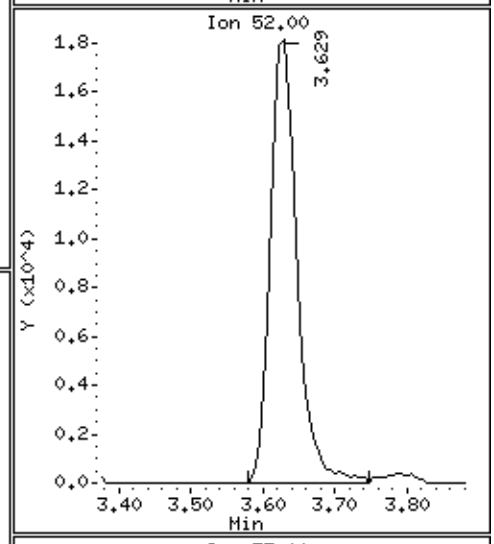


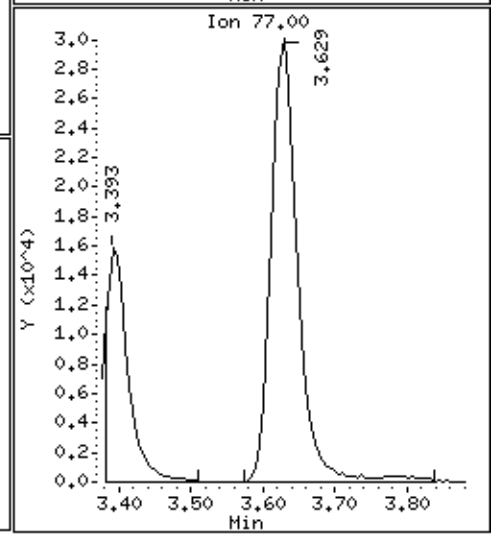












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

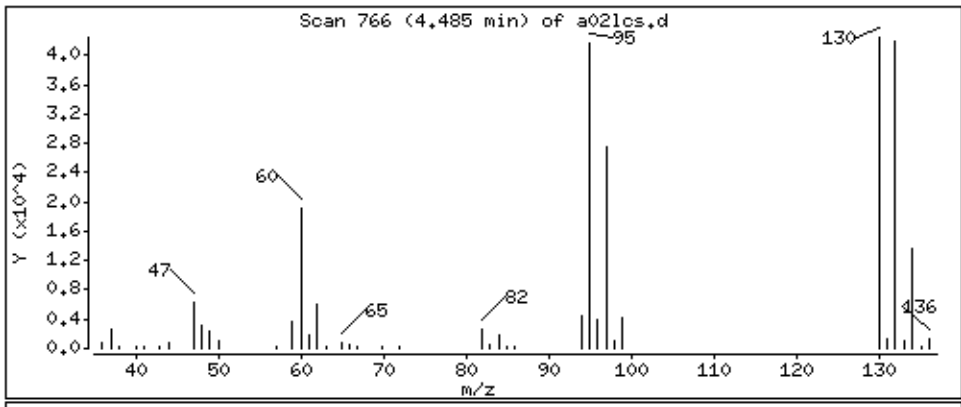
Operator: ala

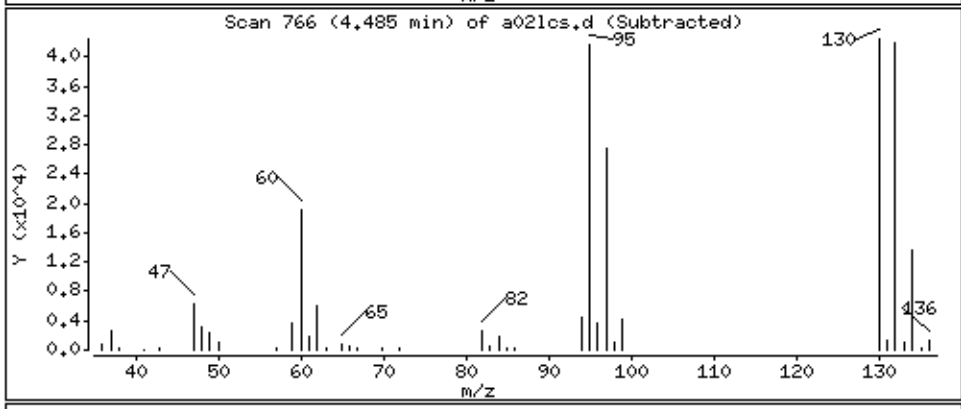
Column phase: DB-624

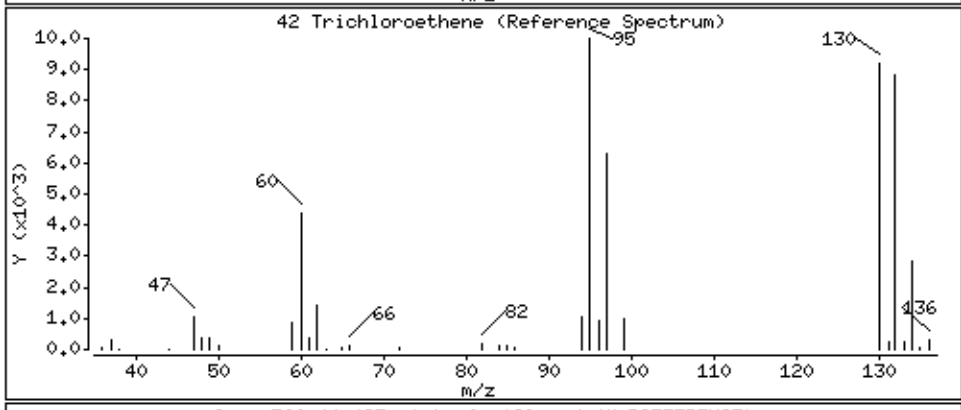
Column diameter: 0.18

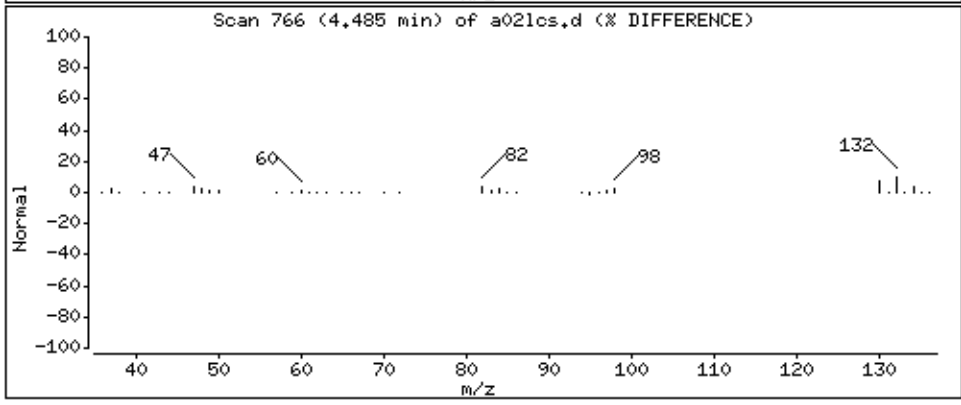
42 Trichloroethene

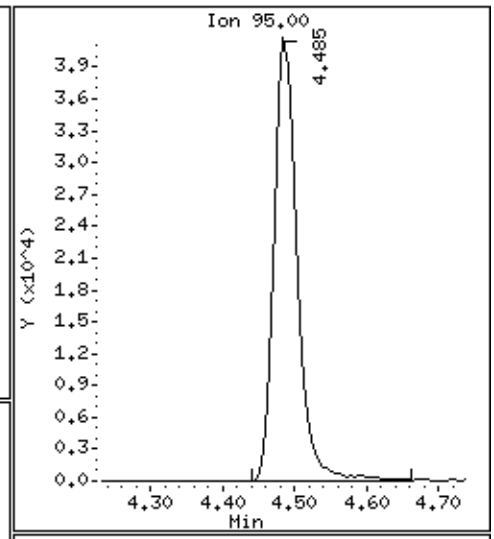
Concentration: 41.7 ppb

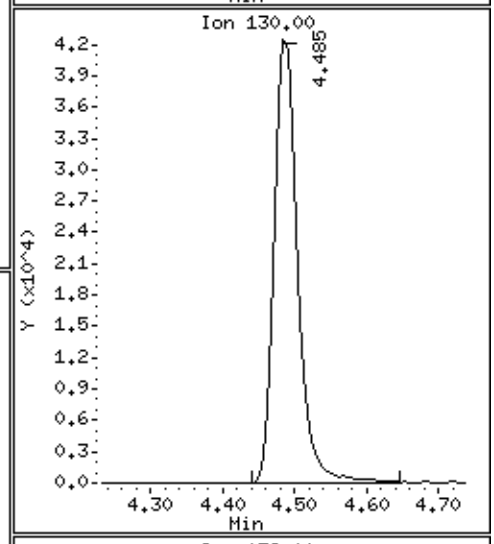


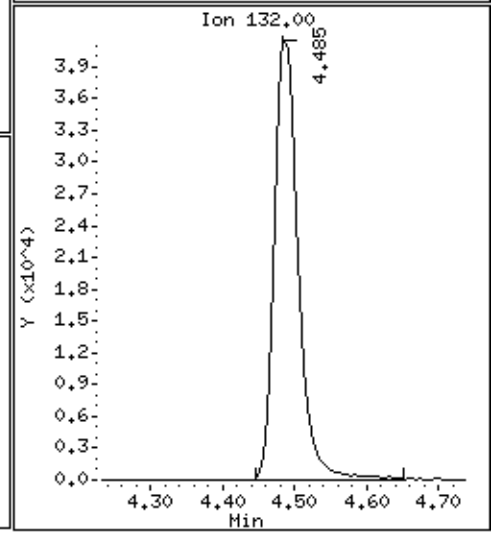












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

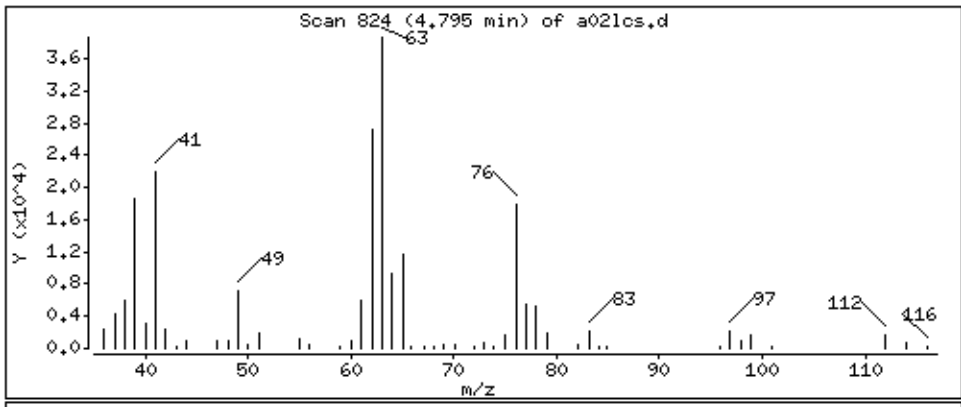
Operator: ala

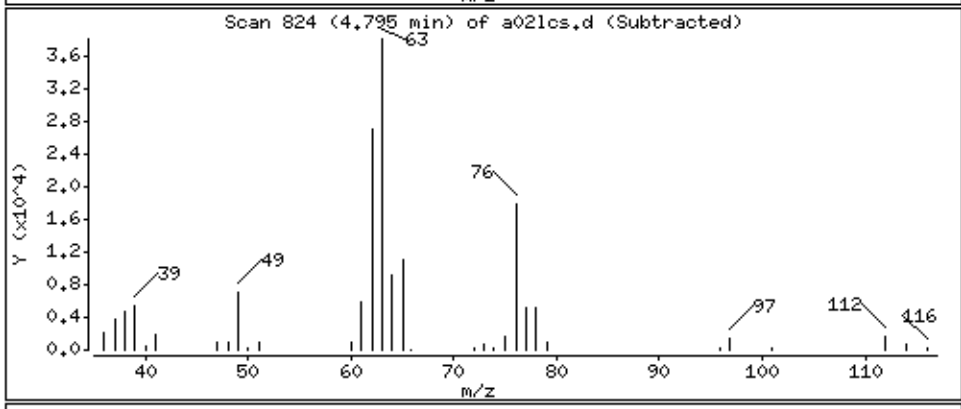
Column phase: DB-624

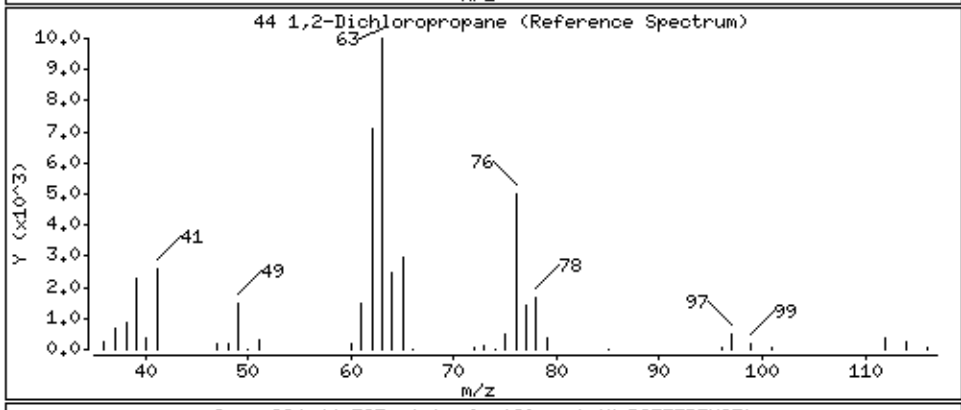
Column diameter: 0.18

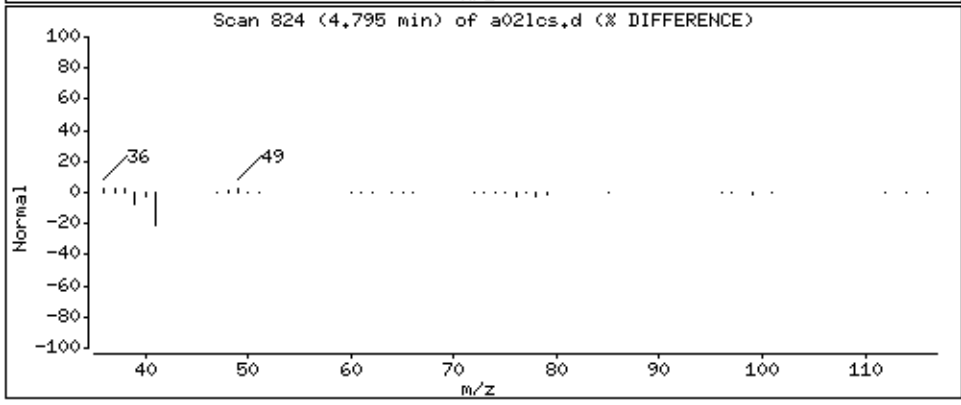
44 1,2-Dichloropropane

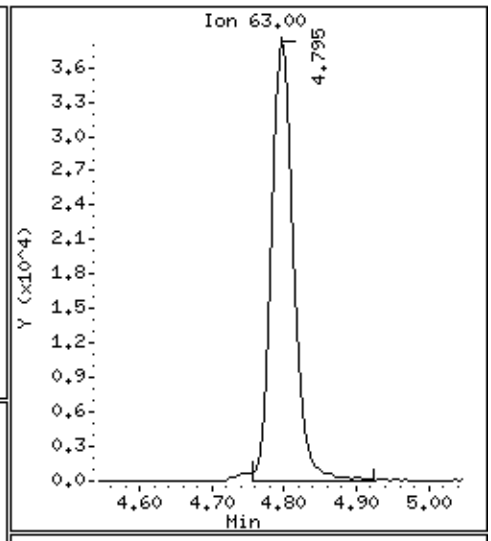
Concentration: 42.0 ppb

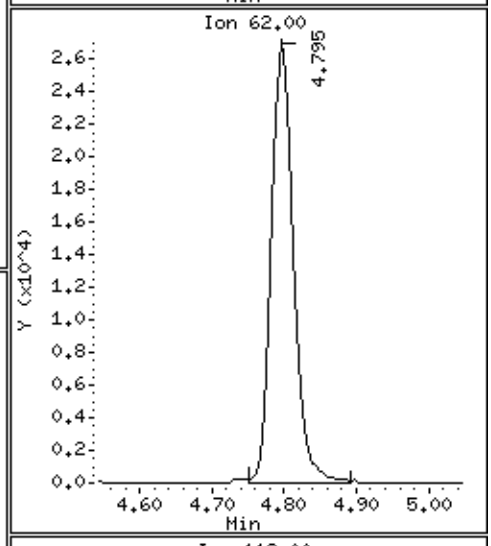


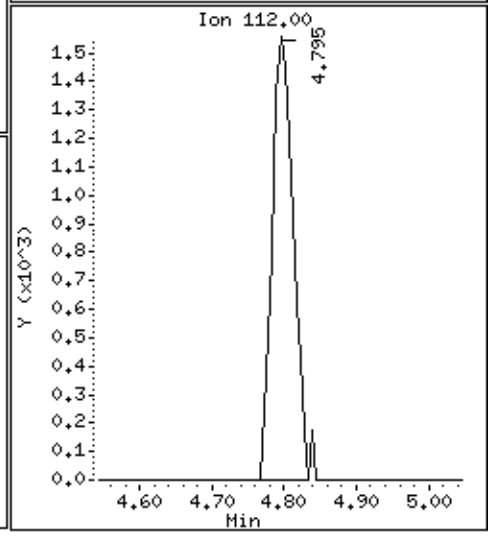












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

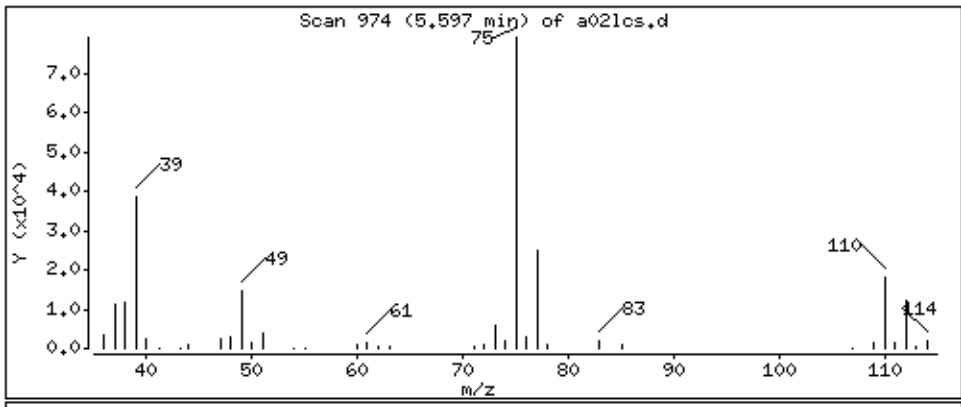
Operator: ala

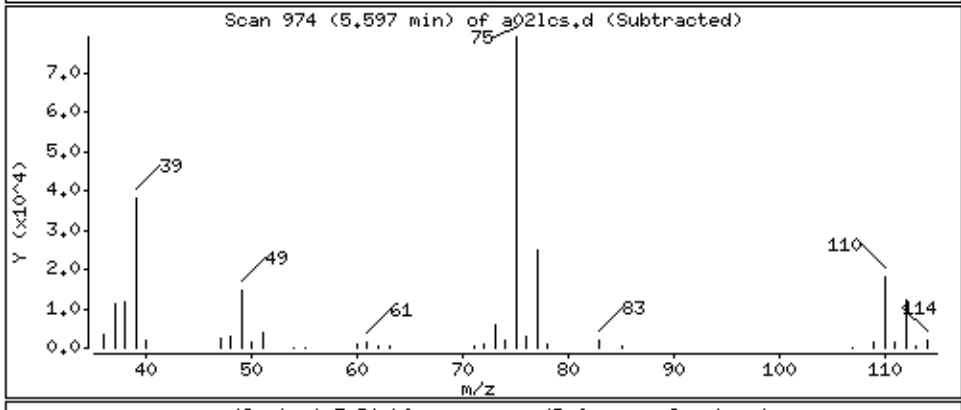
Column phase: DB-624

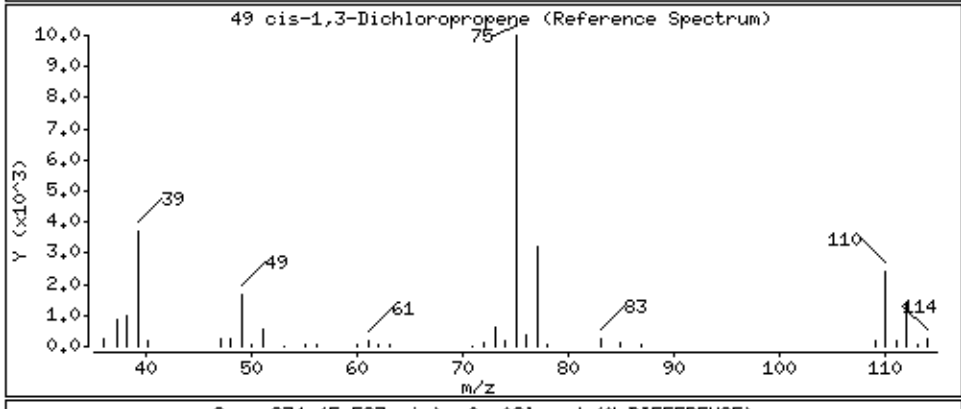
Column diameter: 0.18

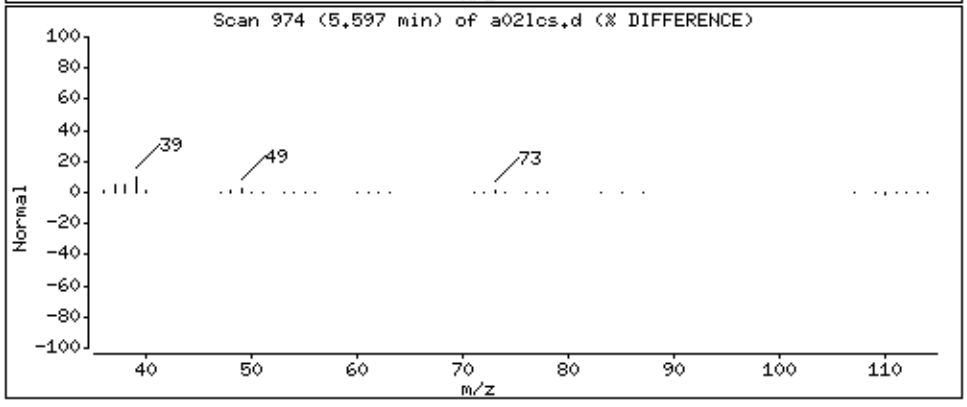
49 cis-1,3-Dichloropropene

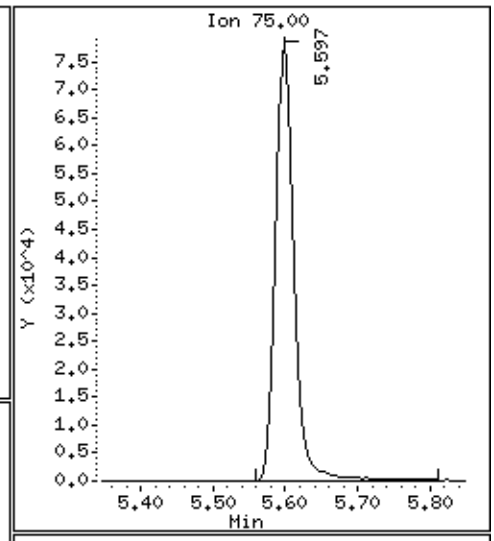
Concentration: 48.6 ppb

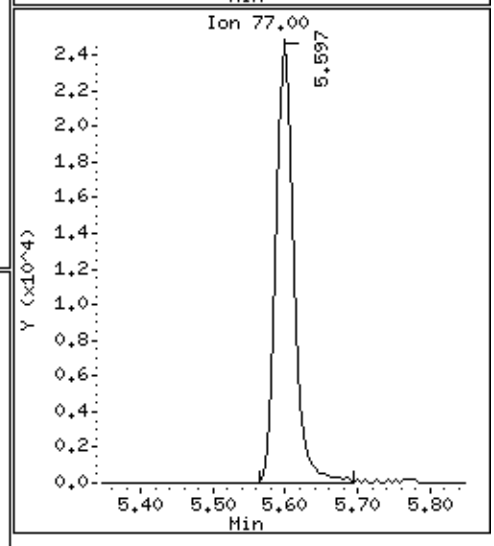












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

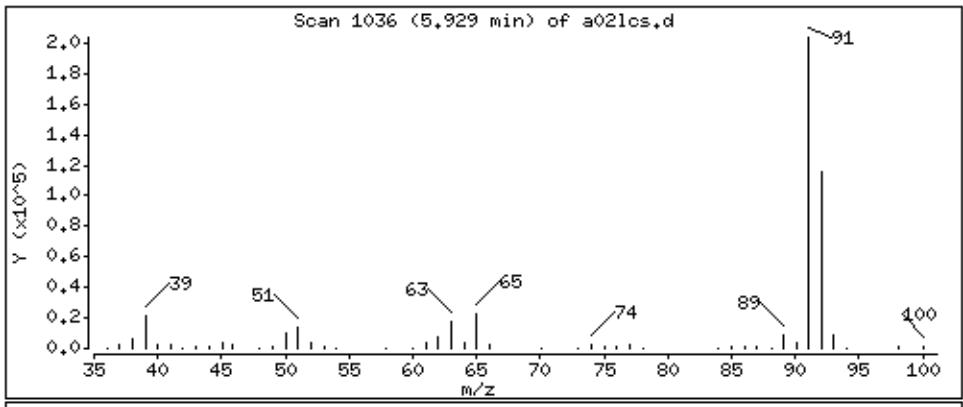
Operator: ala

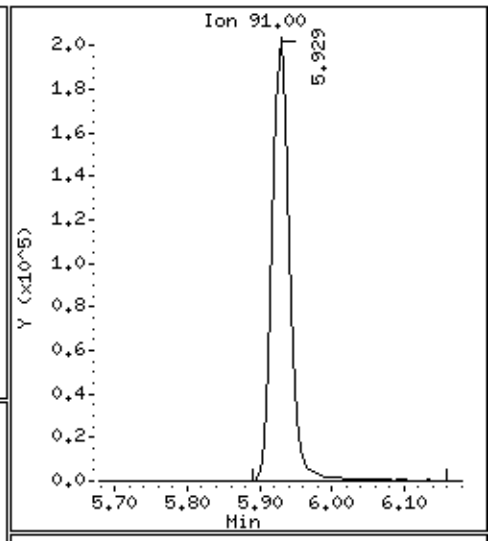
Column phase: DB-624

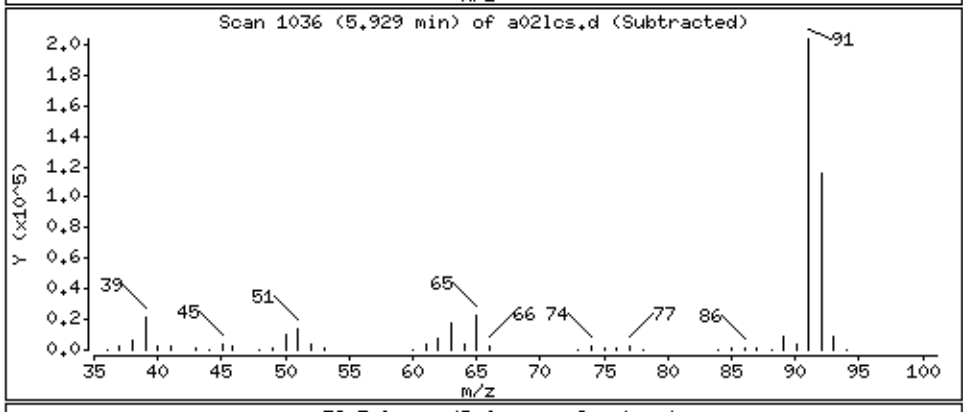
Column diameter: 0.18

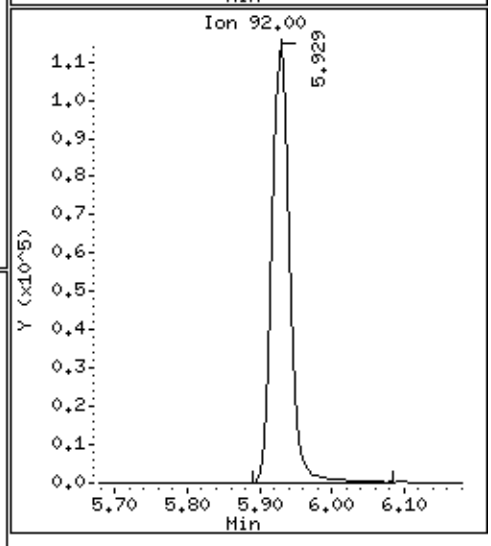
52 Toluene

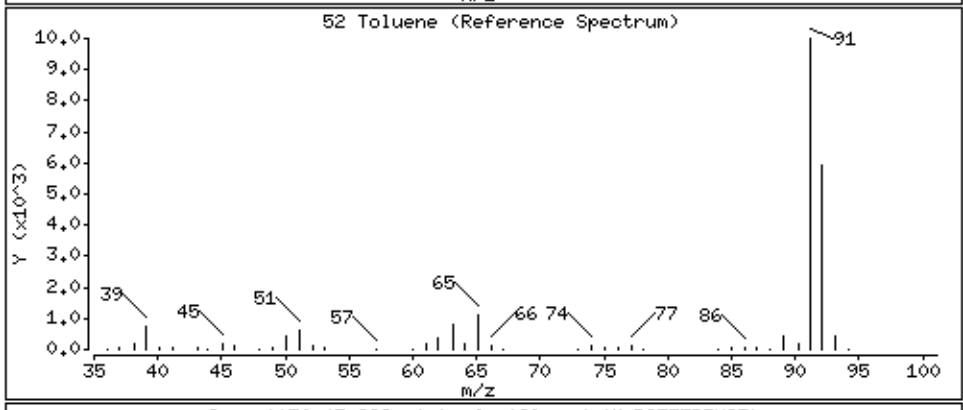
Concentration: 43.7 ppb

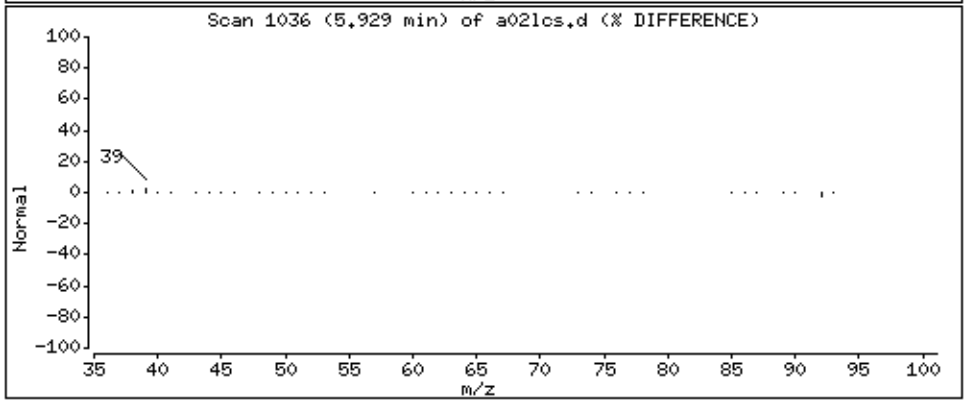












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

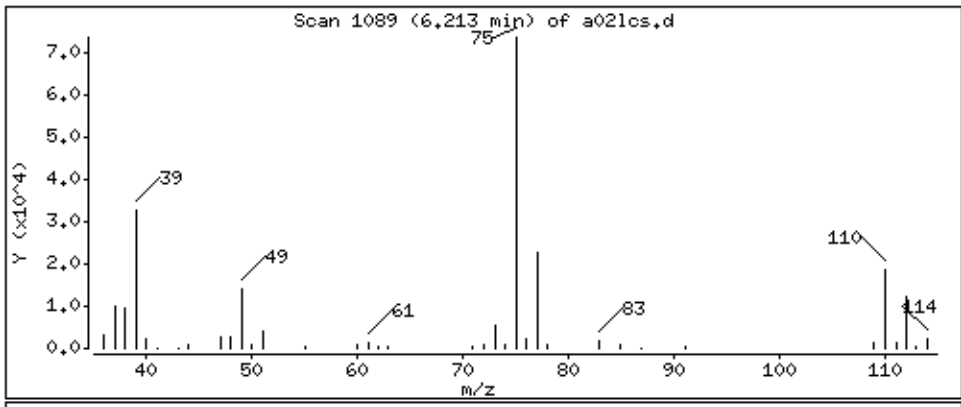
Operator: ala

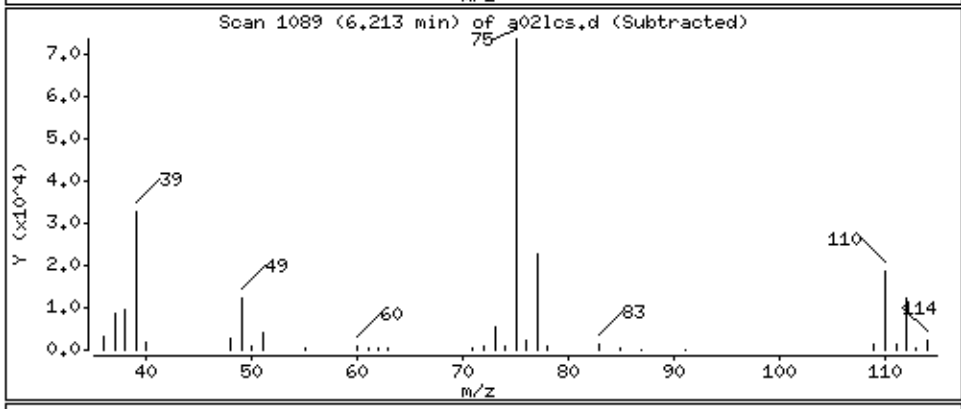
Column phase: DB-624

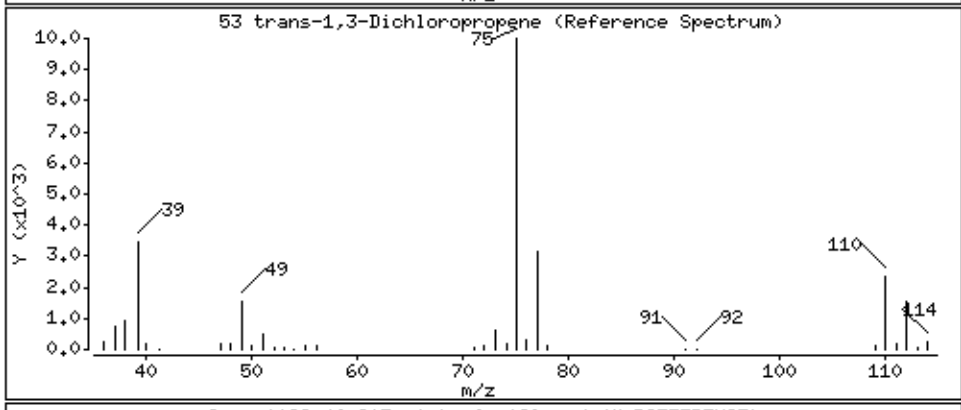
Column diameter: 0.18

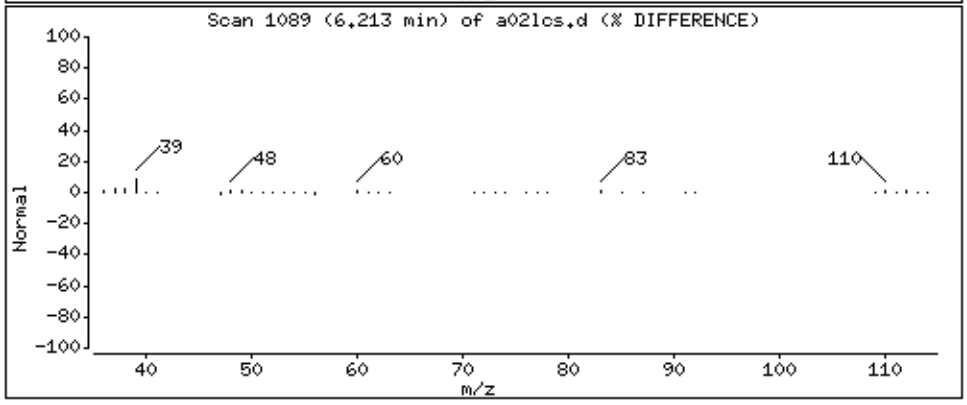
53 trans-1,3-Dichloropropene

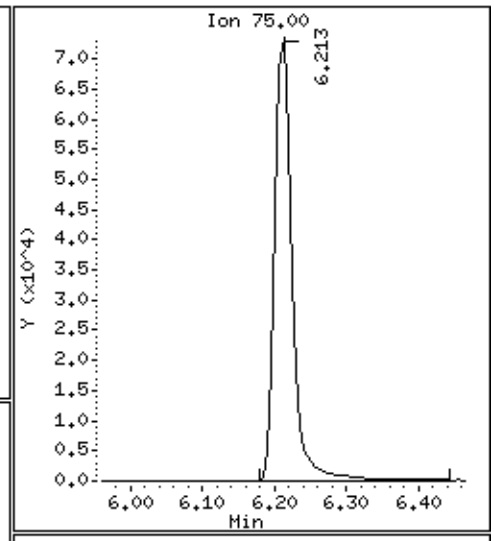
Concentration: 47.1 ppb

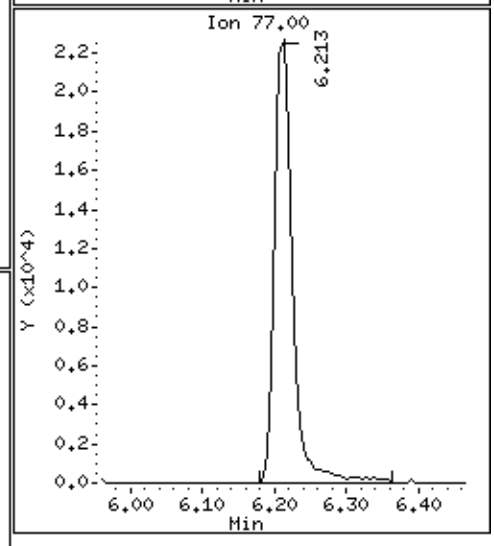












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

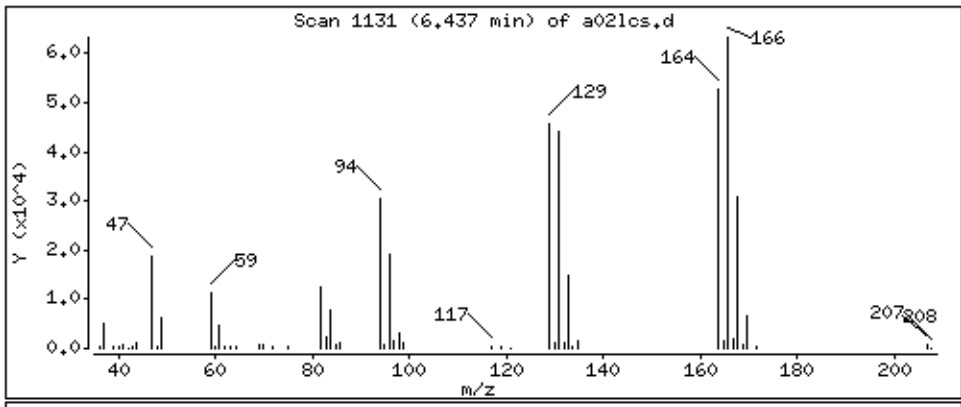
Operator: ala

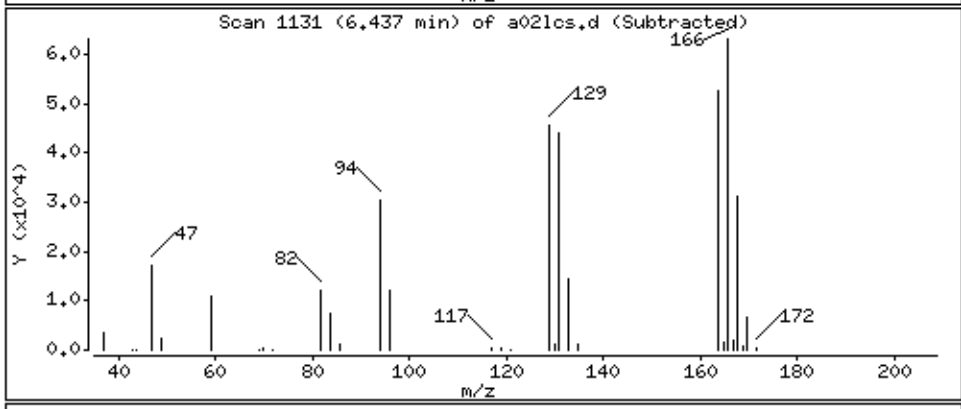
Column phase: DB-624

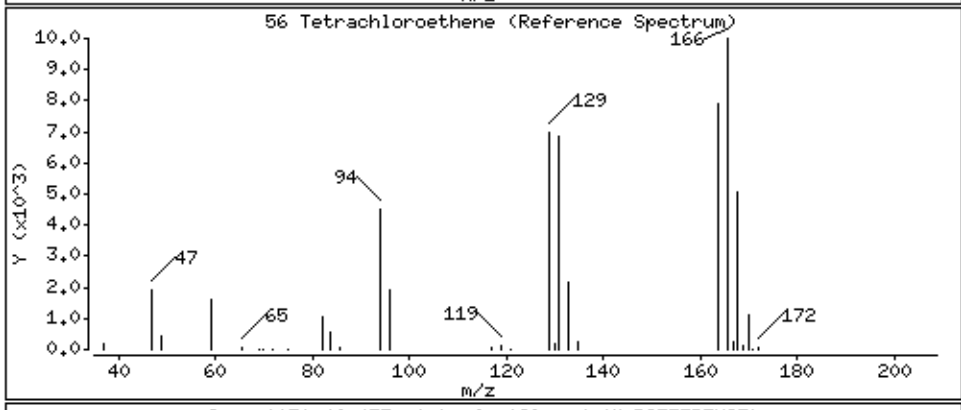
Column diameter: 0.18

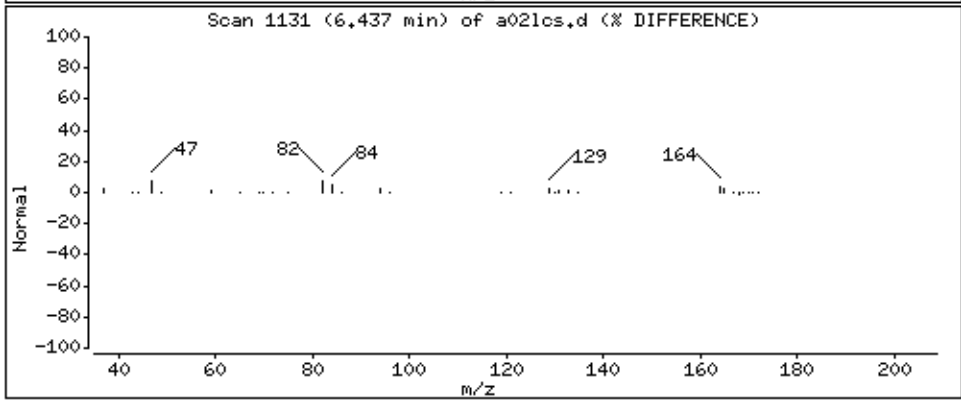
56 Tetrachloroethene

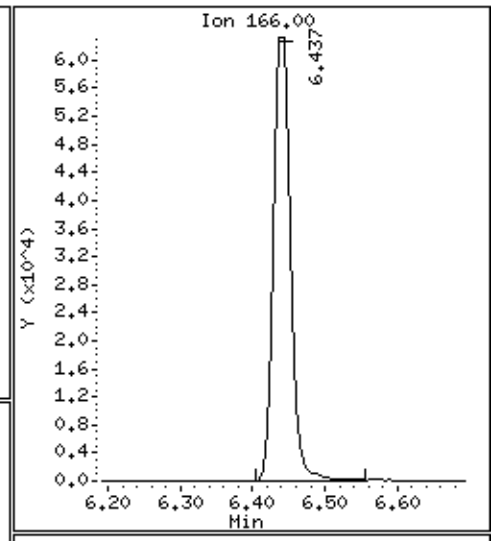
Concentration: 46.8 ppb

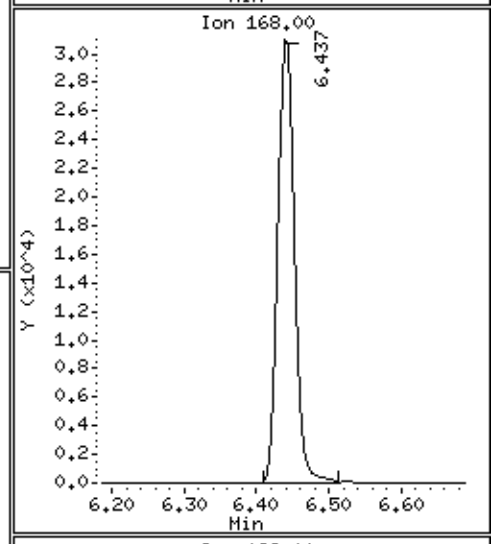


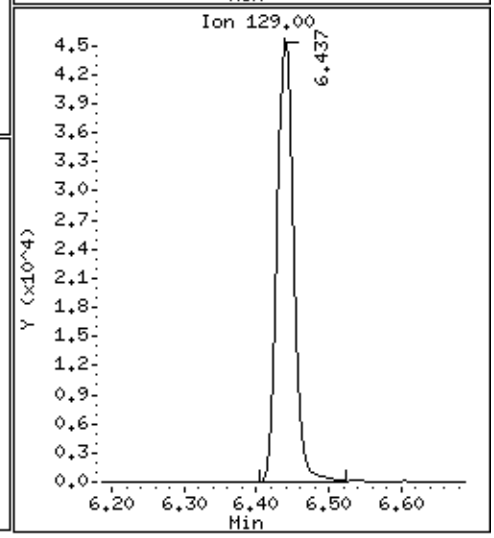












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

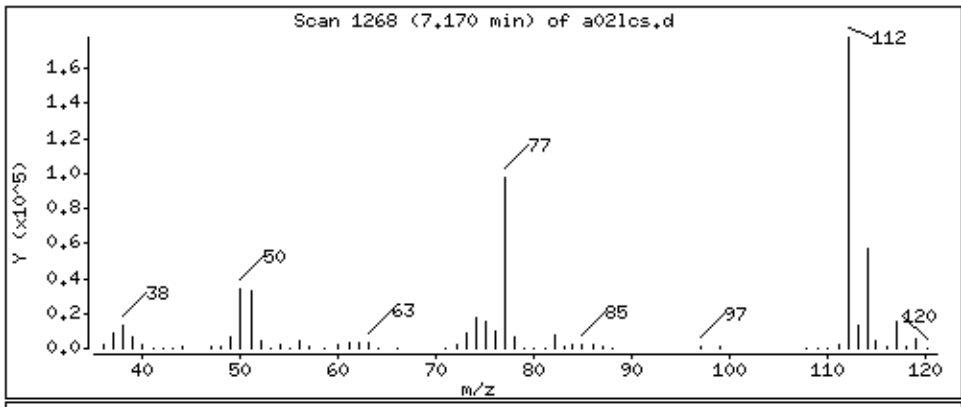
Operator: ala

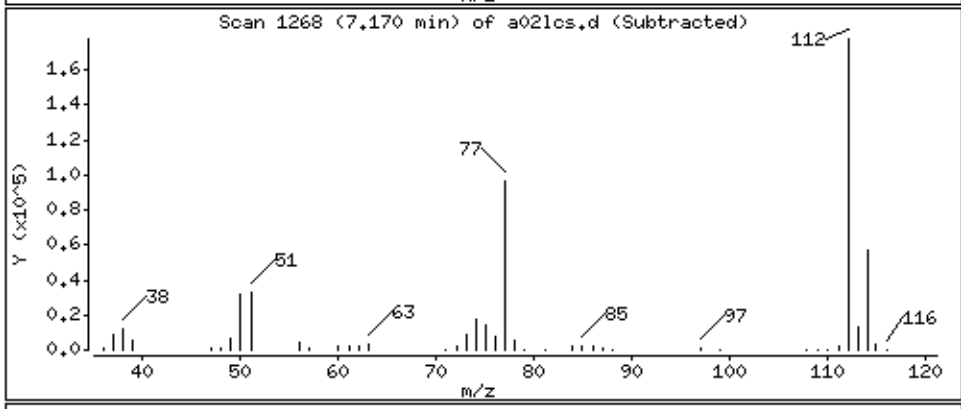
Column phase: DB-624

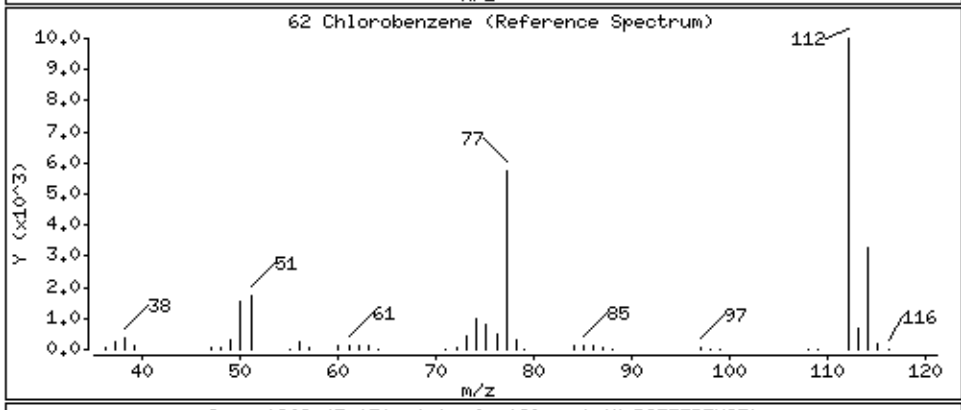
Column diameter: 0.18

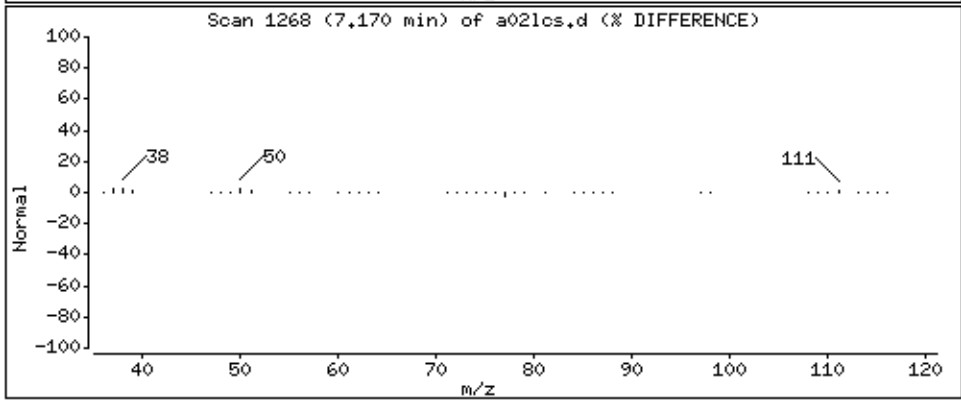
62 Chlorobenzene

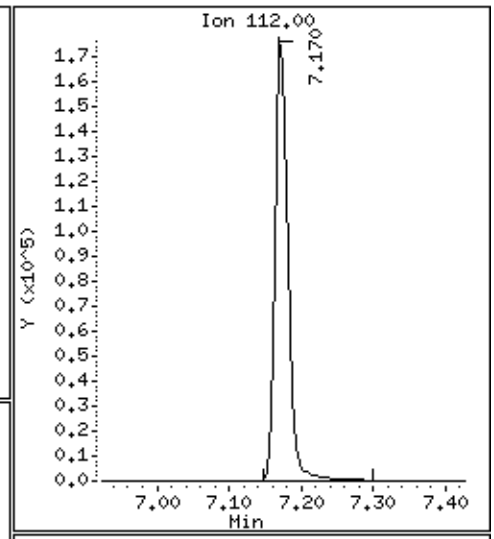
Concentration: 44.4 ppb

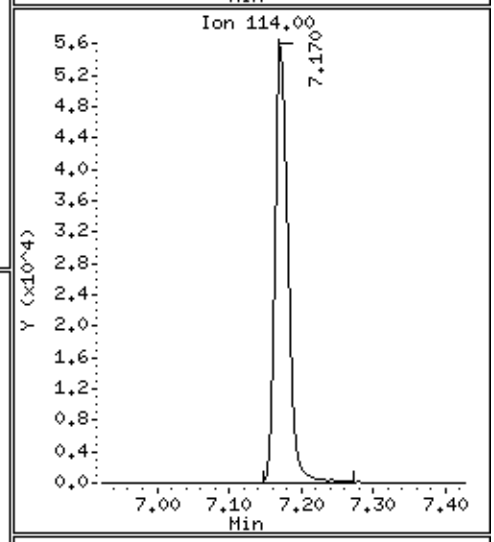


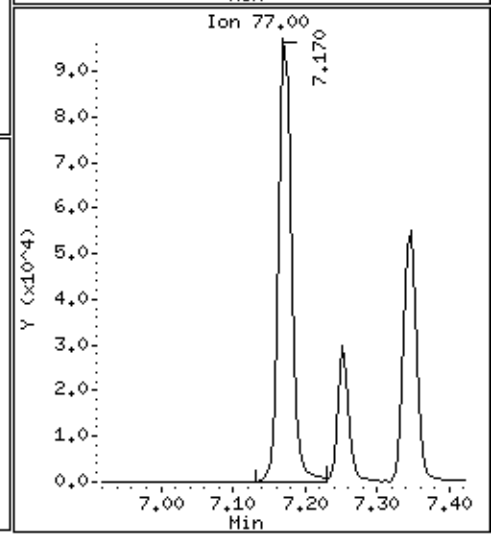












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

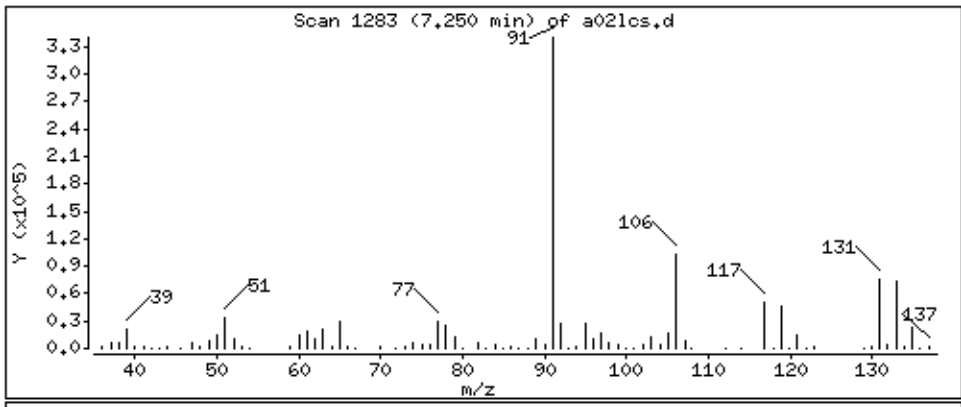
Operator: ala

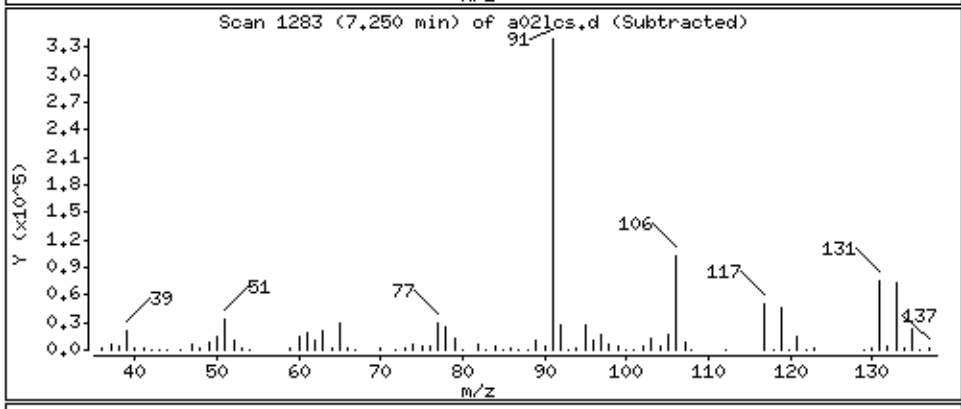
Column phase: DB-624

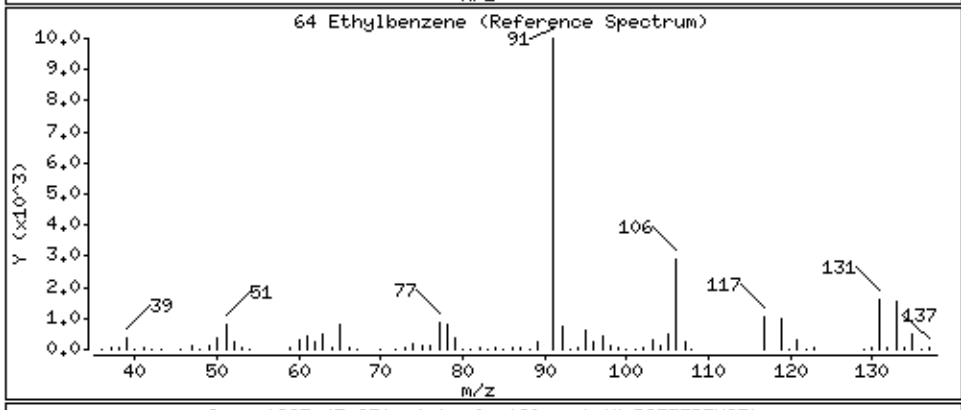
Column diameter: 0.18

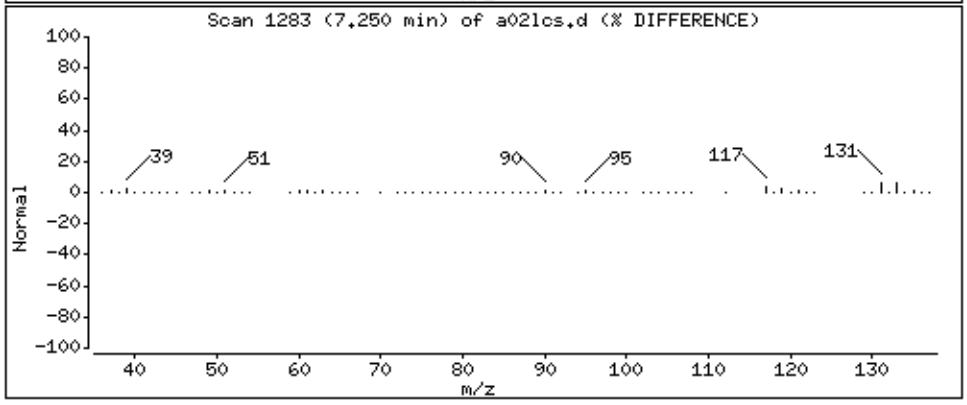
64 Ethylbenzene

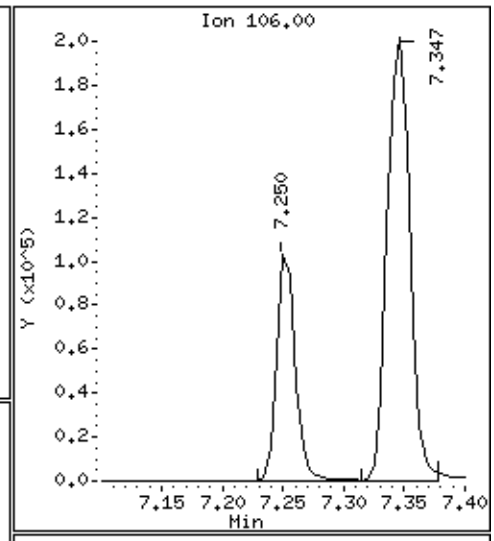
Concentration: 45.1 ppb

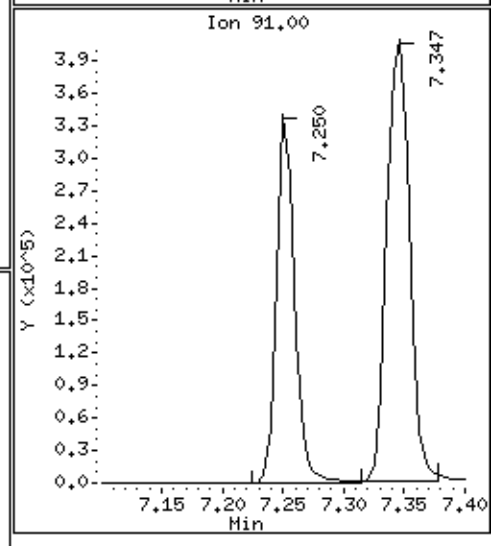












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

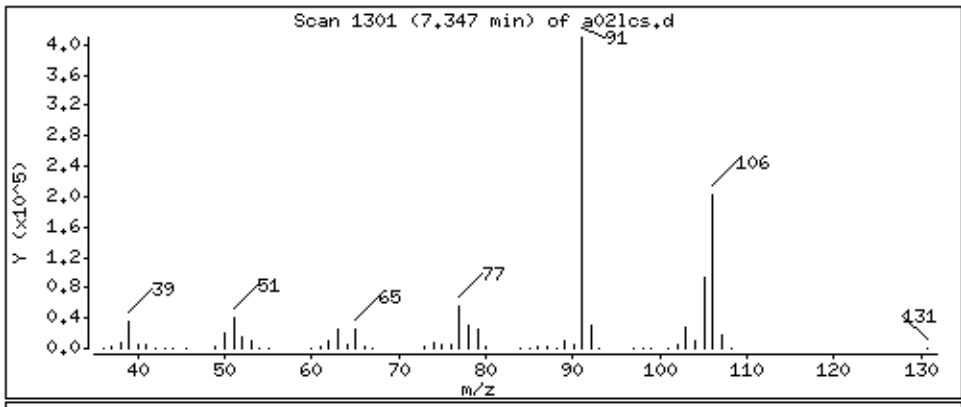
Operator: ala

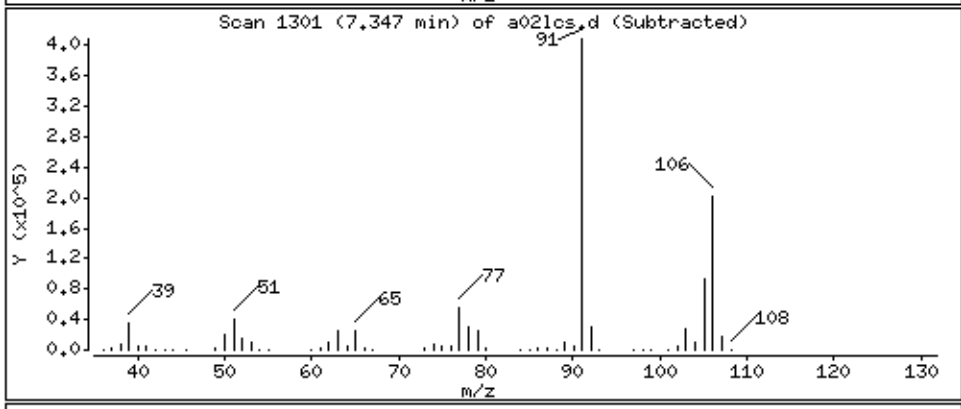
Column phase: DB-624

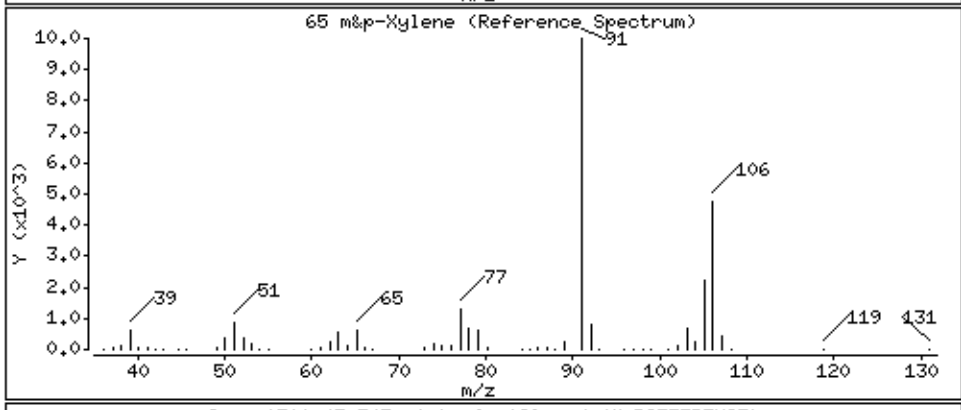
Column diameter: 0.18

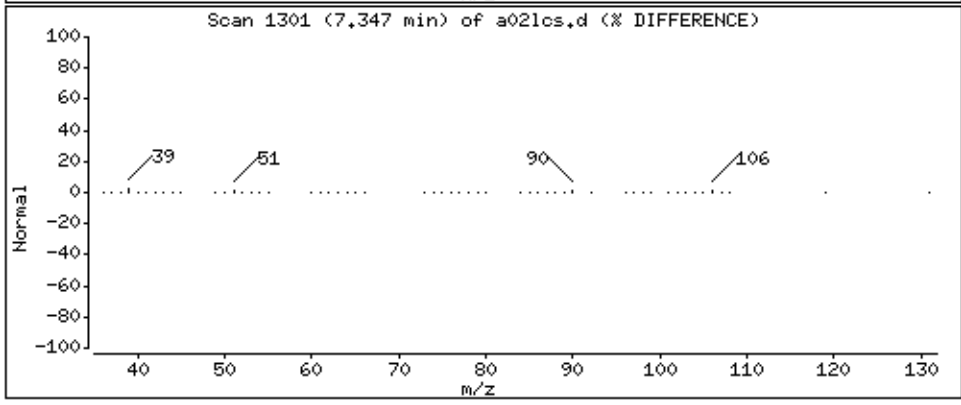
65 m&p-Xylene

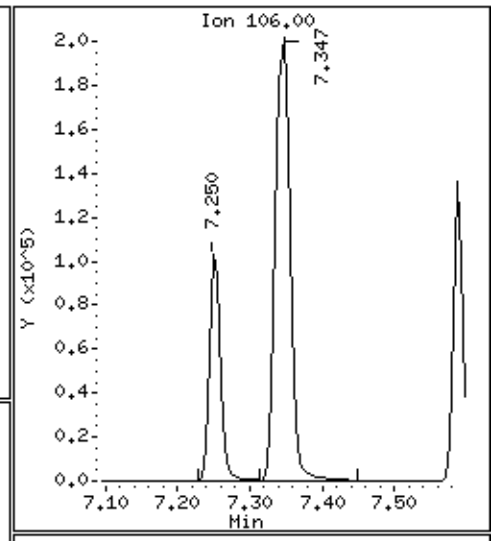
Concentration: 89.8 ppb

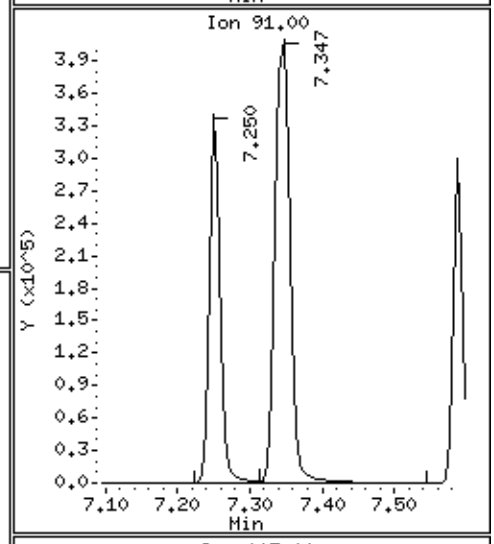


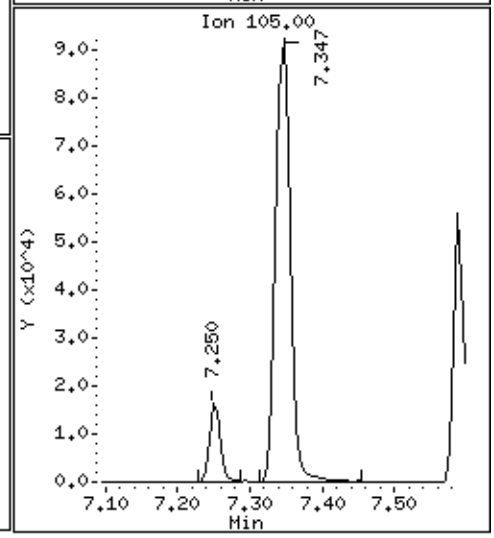












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

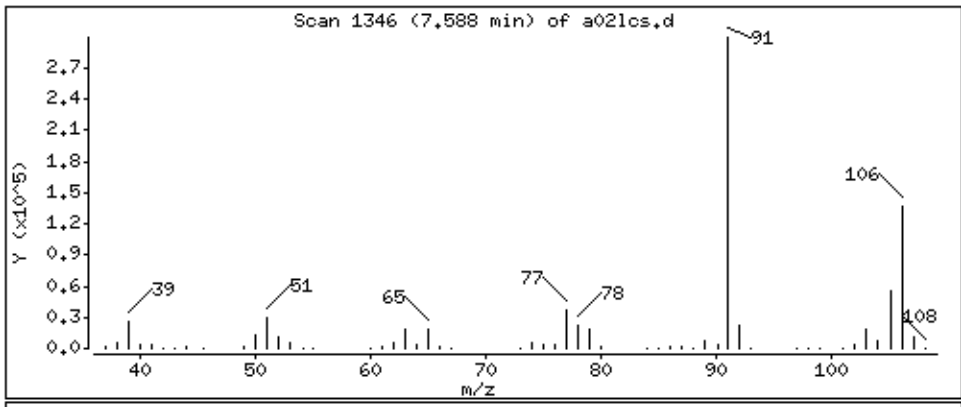
Operator: ala

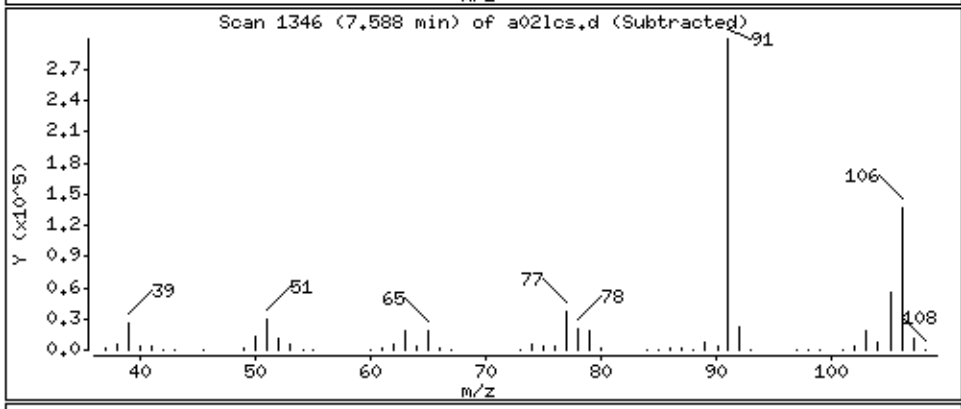
Column phase: DB-624

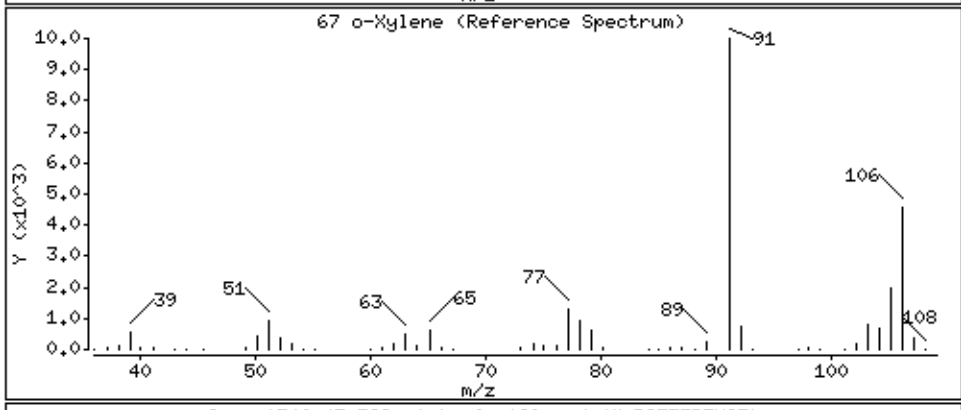
Column diameter: 0.18

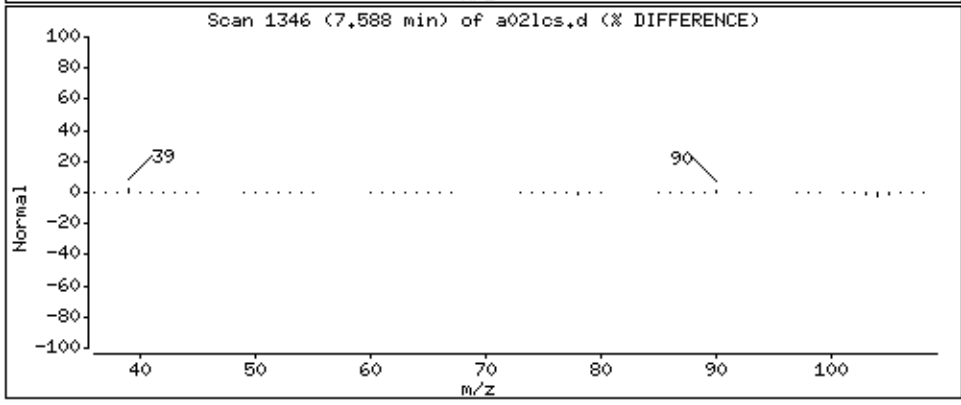
67 o-Xylene

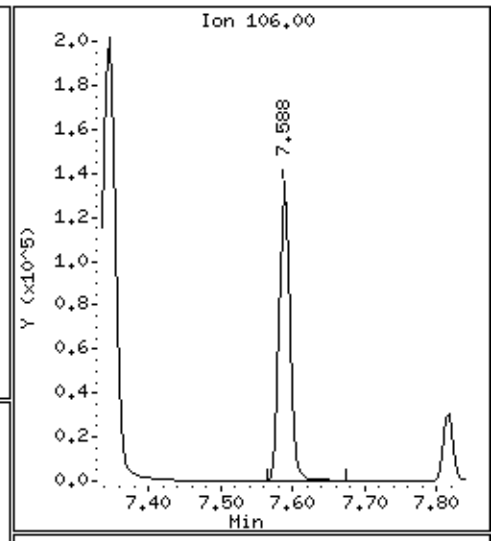
Concentration: 43.8 ppb

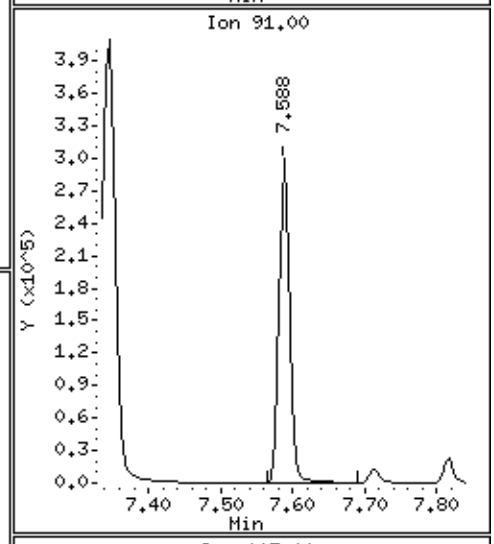


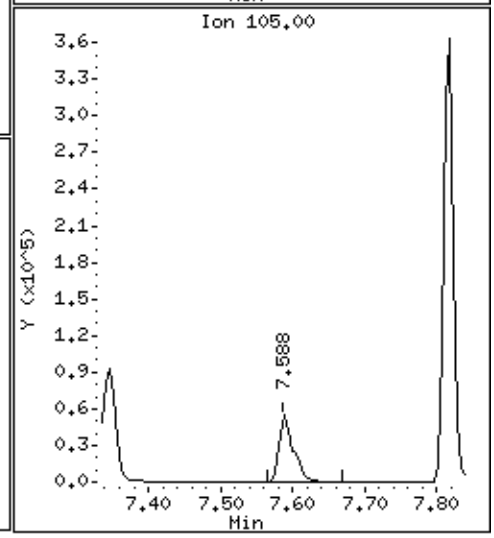












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

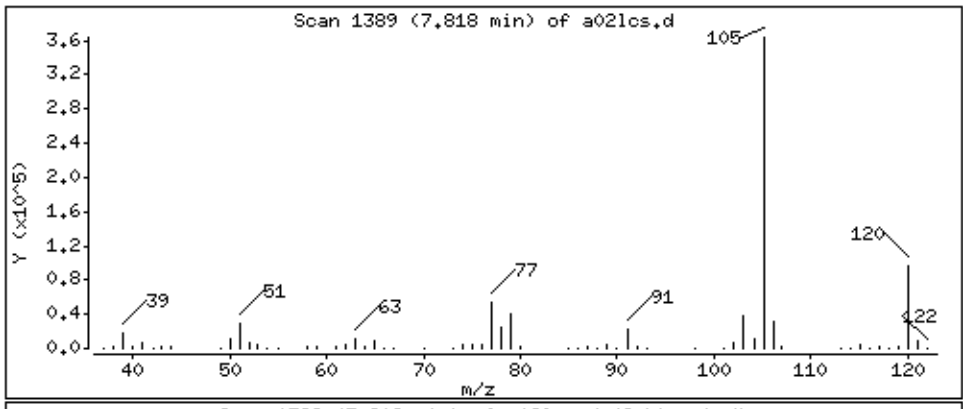
Operator: ala

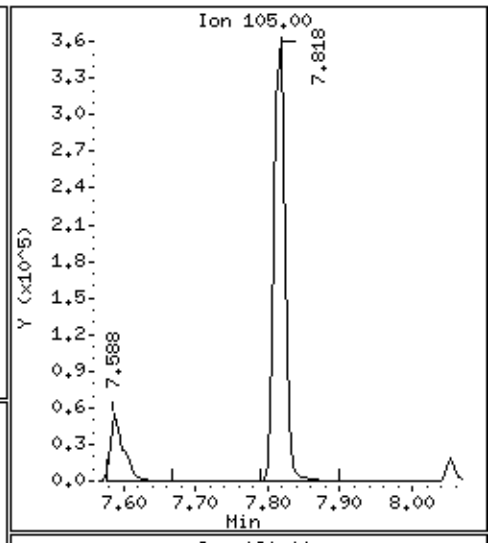
Column phase: DB-624

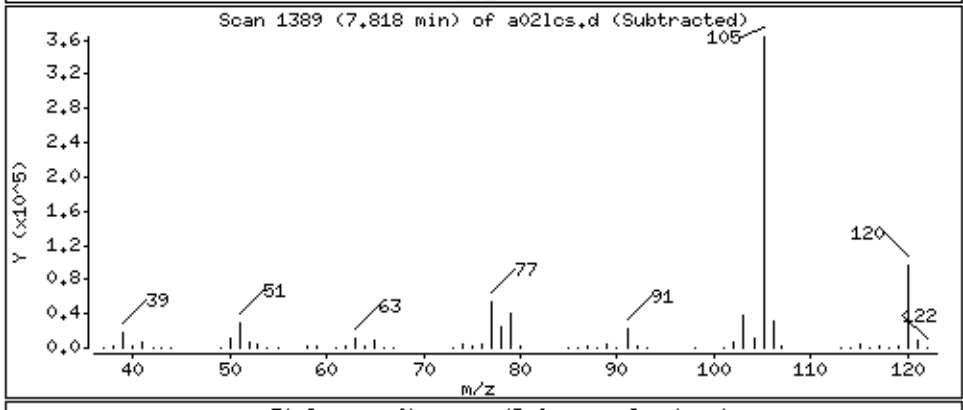
Column diameter: 0.18

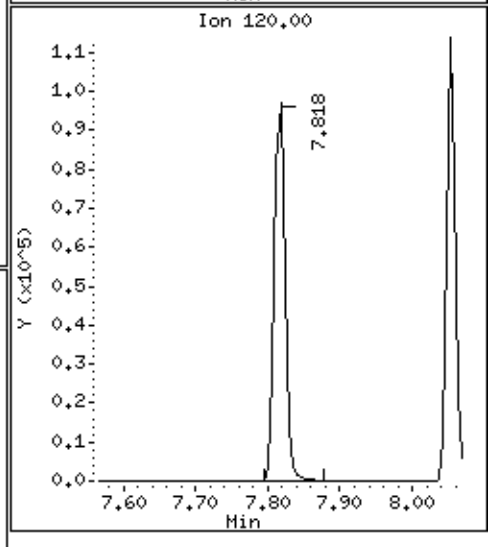
70 Isopropylbenzene

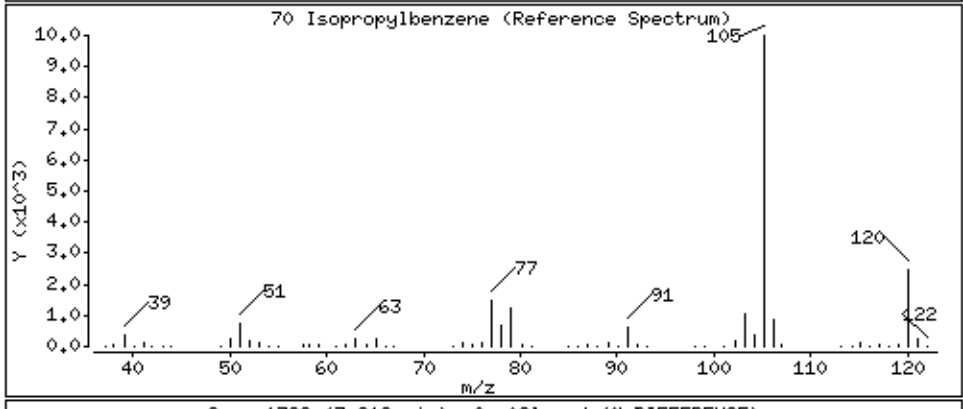
Concentration: 45.8 ppb

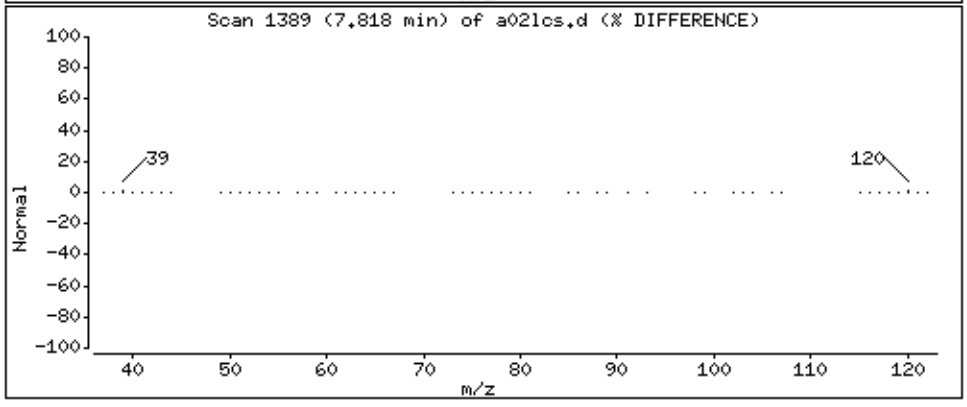












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Page 23

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

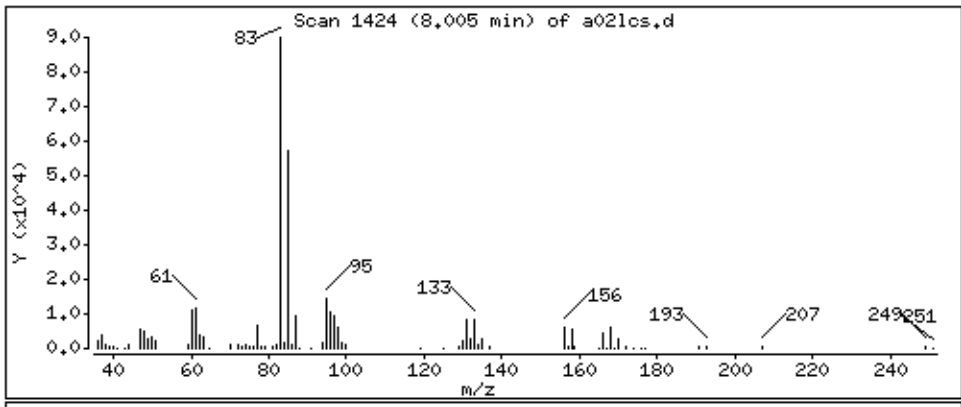
Operator: ala

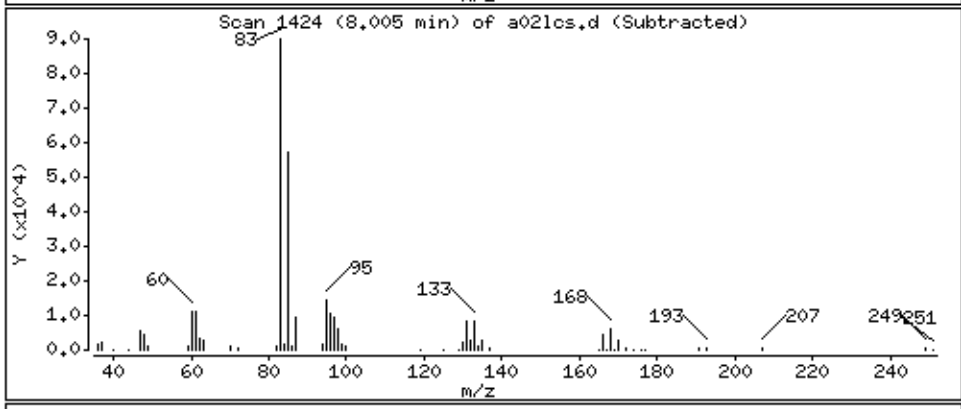
Column phase: DB-624

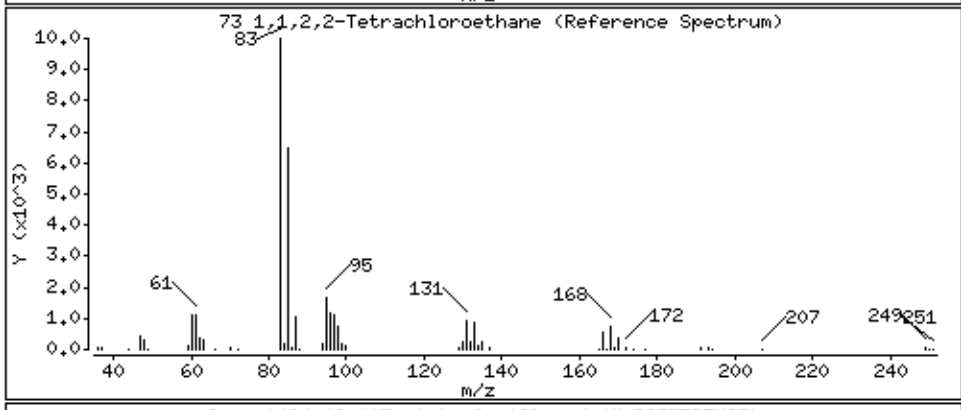
Column diameter: 0.18

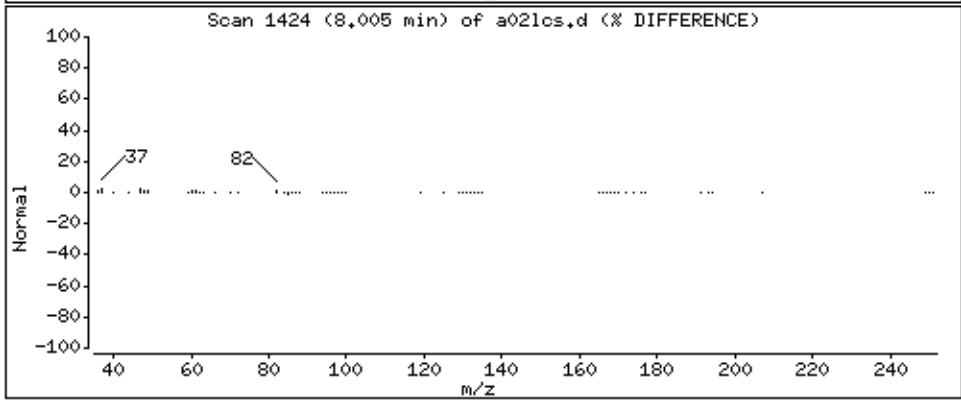
73 1,1,2,2-Tetrachloroethane

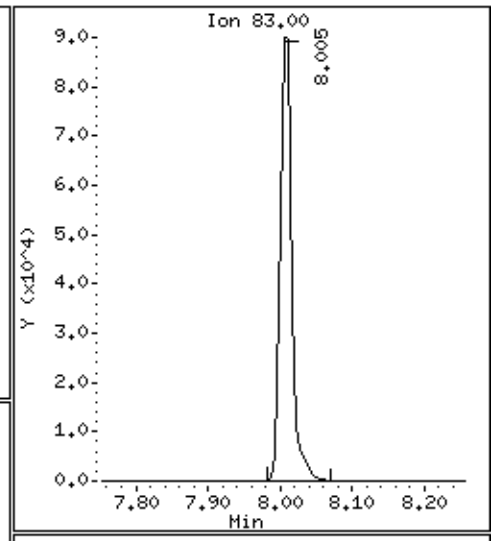
Concentration: 43.2 ppb

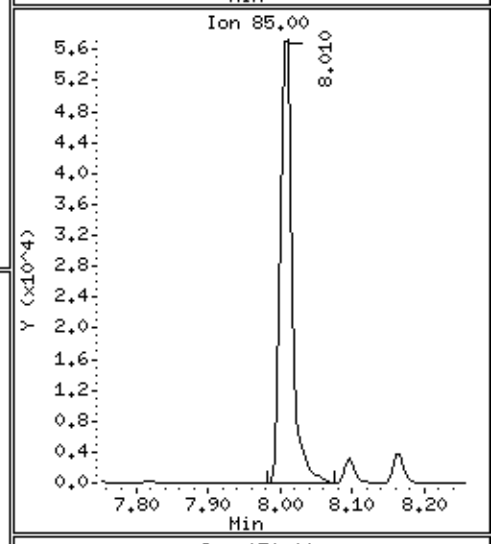


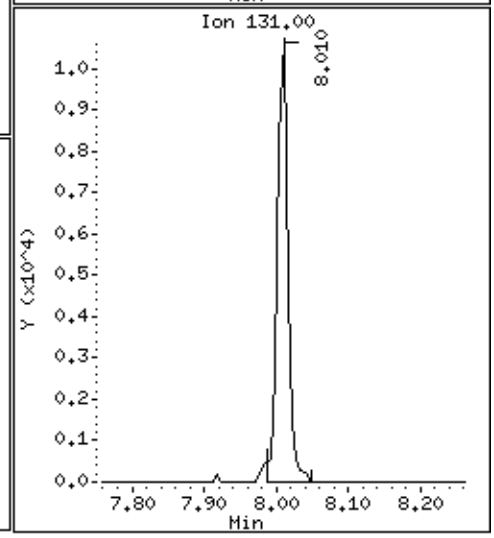












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

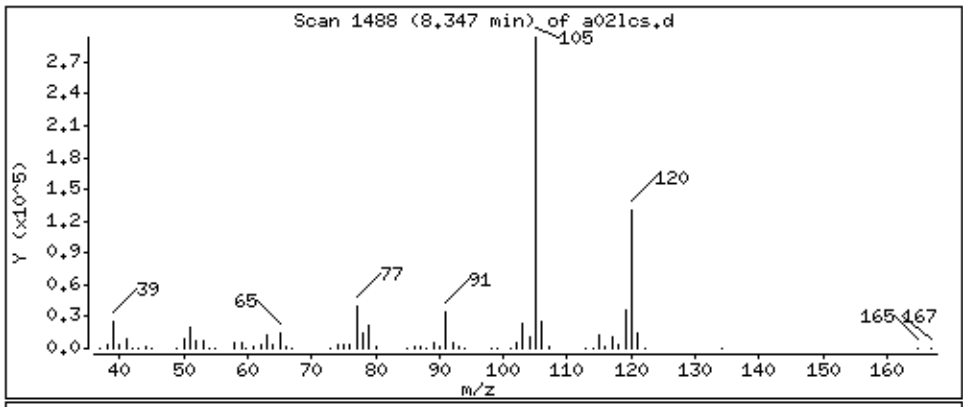
Operator: ala

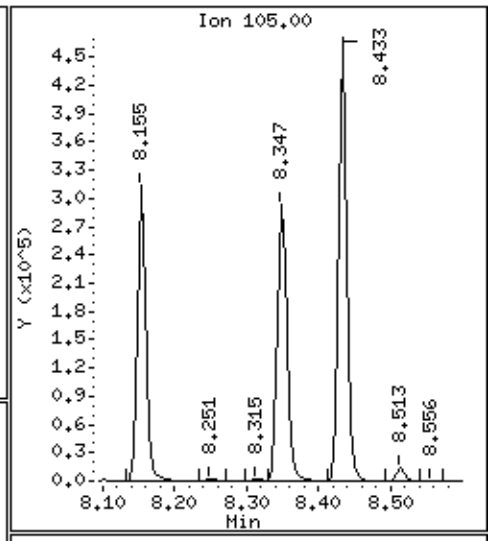
Column phase: DB-624

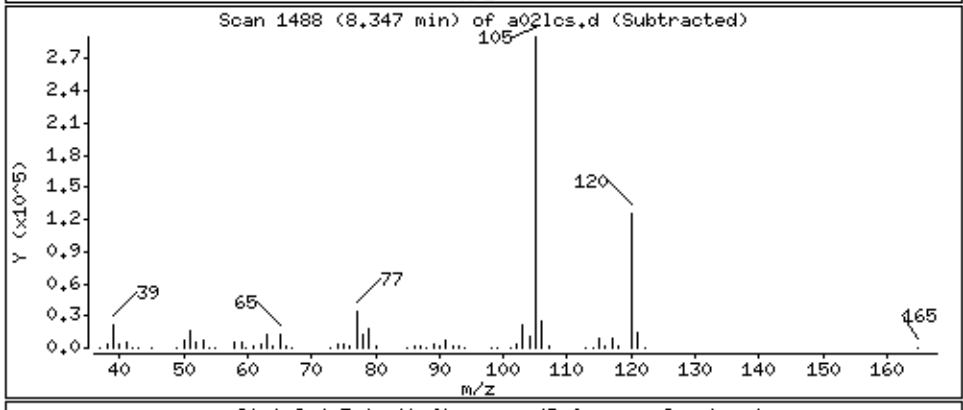
Column diameter: 0.18

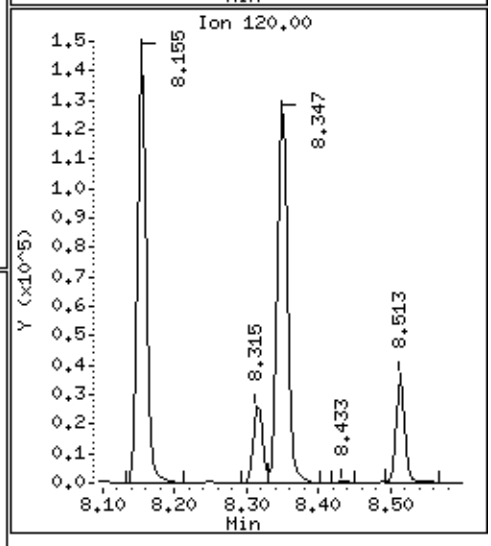
81 1,2,4-Trimethylbenzene

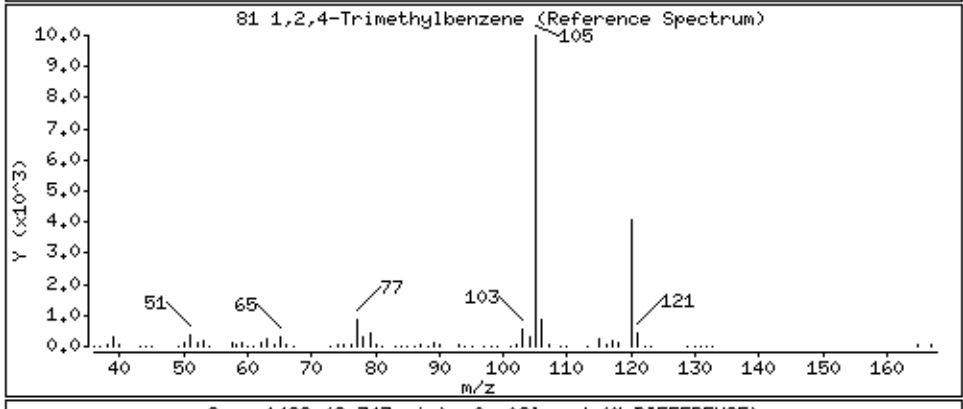
Concentration: 42.2 ppb

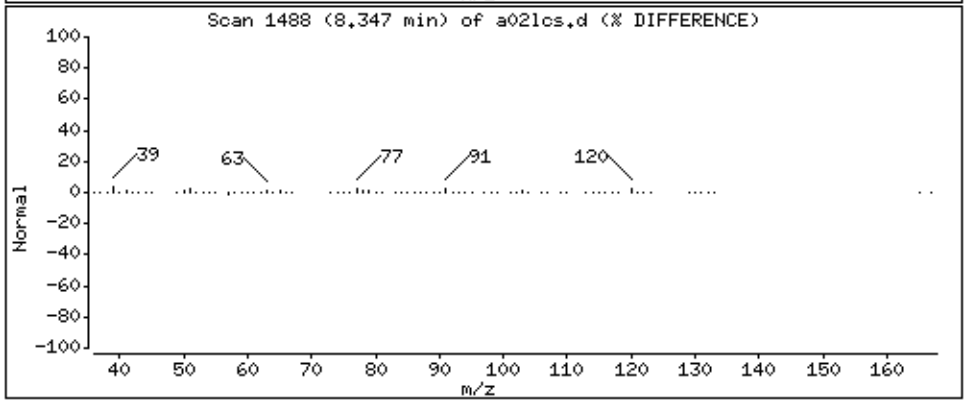












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b\a02lcs.d

Date : 10-MAY-2016 15:32

Client ID: MBLCS

Instrument: 50mv6a.i

Sample Info: 1536249,120044:5

Purge Volume: 5.0

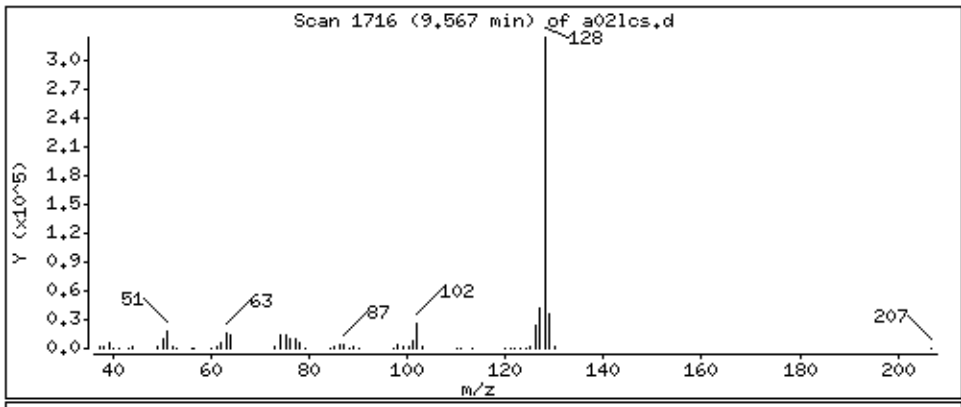
Operator: ala

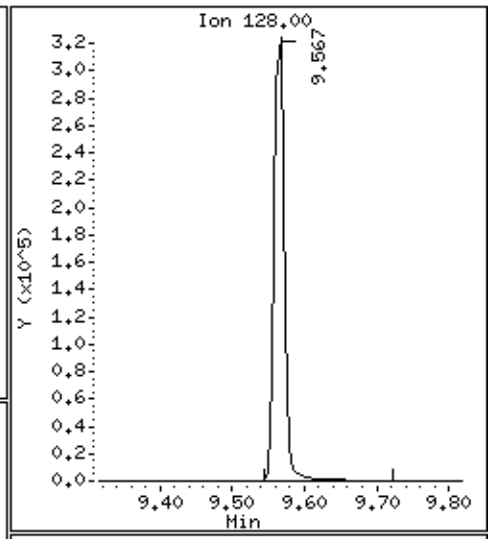
Column phase: DB-624

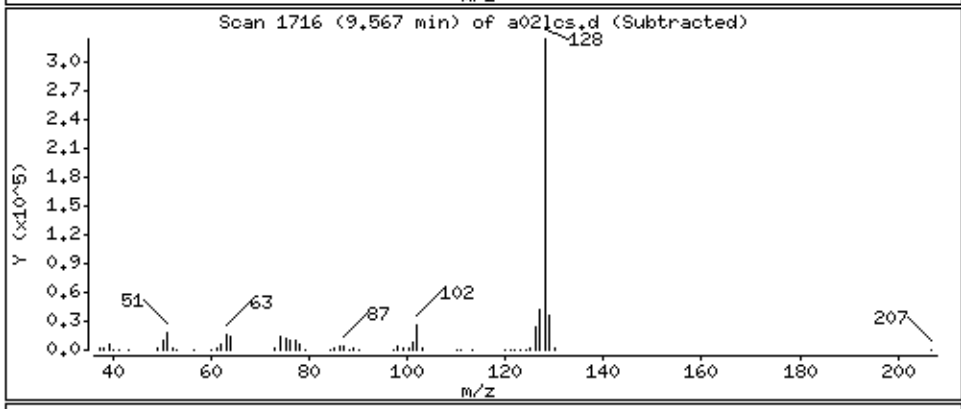
Column diameter: 0.18

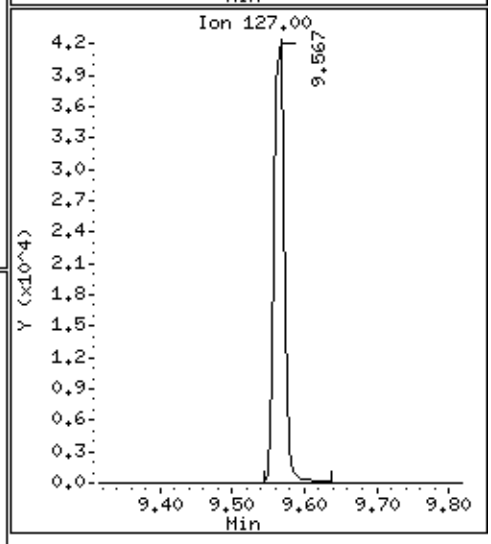
92 Naphthalene

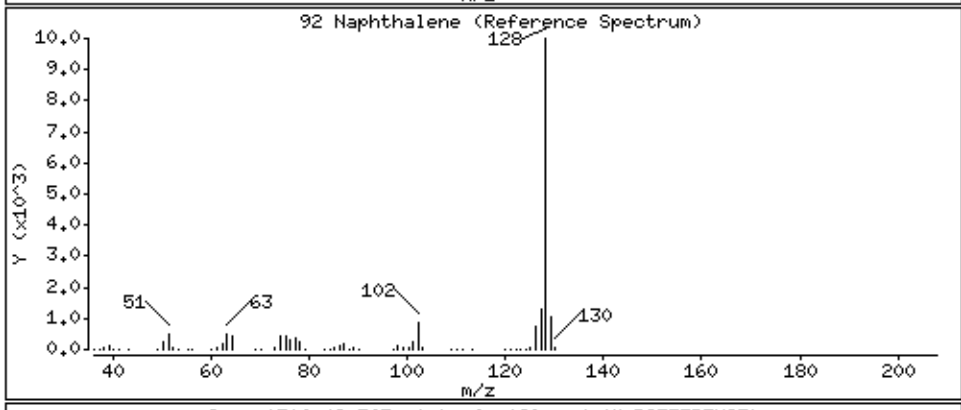
Concentration: 38.5 ppb

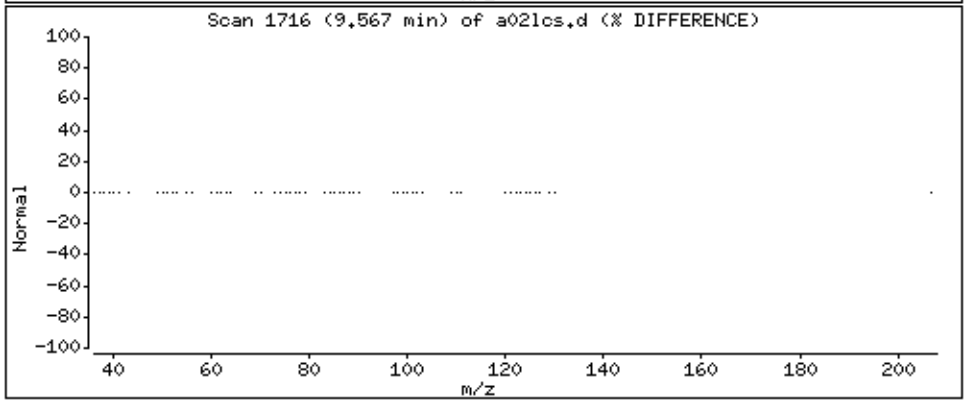












Data File: \\192.168.50.6\chem\50mv6a.i\a051016.b/a02lcs.d
Injection Date: 10-MAY-2016 15:32
Instrument: 50mv6a.i
Lab Sample ID: 1536249
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv6a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 120826:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist Date Time	Oper	Comments
1/a00bfb.d	8260-TUNE,121028	L/89951	BFB	1	7	-bfb/all 5/09/16 18:59	ala	
1/a01.d	8260-CAL1,121029	L/89951	CALIB_1	1	<2	-a8260sl_a_c/all 5/09/16 19:37	ala	curve poor or due to
1/a02.d	8260-CAL2,121030	L/89951	CALIB_2	1	<2	-a8260sl_a_c/all 5/09/16 20:15	ala	source cleaning/tuning
1/a03.d	8260-CAL3,121031	L/89951	CALIB_3	1	<2	-a8260sl_a_c/all 5/09/16 20:52	ala	
1/a04.d	8260-CAL4,121032	L/89951	CALIB_4	1	<2	-a8260sl_a_c/all 5/09/16 21:30	ala	
1/a05.d	8260-CAL5,121033	L/89951	CALIB_5	1	<2	-a8260sl_a_c/all 5/09/16 22:07	ala	
1/a06.d	8260-CAL6,121034	L/89951	CALIB_6	1	<2	-a8260sl_a_c/all 5/09/16 22:45	ala	
1/a07.d	8260-CAL7,121035	L/89951	CALIB_7	1	<2	-a8260sl_a_c/all 5/09/16 23:22	ala	
1/a08.d	8260-CAL8,121036	L/89951	CALIB_8	1	<2	-a8260sl_a_c/all 5/10/16 00:00	ala	
1/a09mb.d	BLANK	L/	BLANK	1	7	-a8260sl_a_c/all 5/10/16 00:38	ala	
1/a10icv.d	8260-ICV,121037:	L/89951	ICV	1	<2	-a8260sl_a_c/all 5/10/16 01:15	ala	
1/c00bfb.d	8260-TUNE,120837	L/89951	BFB	1	7	-bfb/all 5/10/16 01:53	ala	
1/c01ccv.d	8260-CCV,121038:	L/89951	CCALIB_6	1	7	-a8260sl_a_c/all 5/10/16 02:31	ala	
1/c02lcs.d	1535429,120044:5	L/89950	LCS	1	7	-a8260sl_a_c/8260ss 5/10/16 03:08	ala	
1/c03mb.d	1535428	L/89950	BLANK	1	7	-a8260sl_a_c/all 5/10/16 03:46	ala	
1/c04.d	50144035001	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 04:23	ala	
1/c05.d	50144035002	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 05:01	ala	
1/c06.d	1535430,120044:5	L/89950	MS	1	<2	-a8260sl_a_c/ust 5/10/16 05:39	ala	
1/c07.d	1535431,120044:5	L/89950	MSD	1	<2	-a8260sl_a_c/ust 5/10/16 06:16	ala	
1/c08.d	50144035003	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 06:54	ala	
1/c09.d	50144035004	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 07:32	ala	
1/c10.d	50144035005x10	L/89950	SAMPLE	10	<2	-a8260sl_a_c/ust 5/10/16 08:09	ala	
1/c11d	50144035005x100	L/89950	SAMPLE	100	<2	-a8260sl_a_c/ust 5/10/16 08:47	ala	re run to confirm
1/c12.d	50144035006	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 09:25	ala	
1/c13.d	50144035007	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 10:03	ala	
1/c14.d	50144035007x10	L/89950	SAMPLE	10	<2	-a8260sl_a_c/ust 5/10/16 10:40	ala	
1/c15.d	50144035008	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 11:18	ala	
1/c16.d	50144035009	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 11:56	ala	
1/c17.d	50144035010x10	L/89950	SAMPLE	10	<2	-a8260sl_a_c/ust 5/10/16 12:33	ala	
1/c18.d	50144035011	L/89950	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 13:11	ala	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓

File Path 1: \\192.168.50.6\chem\50mv6a.i\a050916cal.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:20 05/10/2016

AA 5.10.16

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv6a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 120826:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist Date Time	Oper	Comments
1/a00bfb.d	8260-TUNE,120837	L/89951	BFB	1	7	-bfb/all 5/10/16 14:17	ala	
1/a01ccv.d	8260-CCV,121038:	L/89951	CCALIB_6	1	7	-a8260sl_a_c/all 5/10/16 14:54	ala	
1/a02lcs.d	1536249,120044:5	L/90006	LCS	1	7	-a8260sl_a_c/8260ss 5/10/16 15:32	ala	
1/a03mb.d	1536248	L/90006	BLANK	1	7	-a8260sl_a_c/all 5/10/16 16:10	ala	
1/a04.d	50144035005x100	L/89950	SAMPLE	100	<2	-a8260sl_a_c/ust 5/10/16 16:47	ala	
1/a05.d	50144020002	L/90001	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 17:25	ala	
1/a06.d	1536233,120044:5	L/90001	MS	1	<2	-a8260sl_a_c/ust 5/10/16 18:02	ala	
1/a07.d	1536234,120044:5	L/90001	MSD	1	<2	-a8260sl_a_c/ust 5/10/16 18:40	ala	
1/a08.d	50144035006	L/90001	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 19:17	ala	
1/a09.d	50144035012	L/90001	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 19:55	ala	
1/a10.d	50144035012x10	L/90001	SAMPLE	10	<2	-a8260sl_a_c/ust 5/10/16 20:33	ala	
1/a11.d	50144035013	L/90001	SAMPLE	1	<2	-a8260sl_a_c/ust 5/10/16 21:10	ala	
1/a12.d	50143942001	L/90006	SAMPLE	1	<2	-a8260sl_a_c/all 5/10/16 21:48	ala	
1/a13.d	50143942002	L/90006	SAMPLE	1	<2	-a8260sl_a_c/all 5/10/16 22:26	ala	
1/a14.d	50143942004	L/90006	SAMPLE	1	<2	-a8260sl_a_c/all 5/10/16 23:03	ala	
1/a15.d	50143986001	L/90006	SAMPLE	1	<2	-a8260sl_a_c/all 5/10/16 23:41	ala	
1/a16 (d)	50143986003x5	L/90006	SAMPLE	5	<2	-a8260sl_a_c/all 5/11/16 00:19	ala	OD-NIB-1x
1/a17 (d)	50143986003x25	L/90006	SAMPLE	25	<2	-a8260sl_a_c/all 5/11/16 00:56	ala	ND Needed
1/a18 (d)	50143986004x5	L/90006	SAMPLE	5	<2	-a8260sl_a_c/all 5/11/16 01:34	ala	OD-NIB-1x
1/a19 (d)	50143986004x25	L/90006	SAMPLE	25	<2	-a8260sl_a_c/all 5/11/16 02:11	ala	ND Needed
1/c00bfb.d	8260-TUNE,120837	L/89951	BFB	1	7	-bfb/all 5/11/16 02:49	ala	
1/c01ccv.d	8260-CCV,121038:	L/89951	CCALIB_6	1	7	-a8260sl_a_c/all 5/11/16 03:27	ala	
1/c02lcs.d	1536251,120044:5	L/90007	LCS	1	7	-a8260sl_a_c/8260ss 5/11/16 04:05	ala	
1/c03mb.d	1536250	L/90007	BLANK	1	7	-a8260sl_a_c/all 5/11/16 04:42	ala	
1/c04.d	50143986002	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 05:20	ala	
1/c05.d	1536252,120044:5	L/90007	MS	1	<2	-a8260sl_a_c/8260ss 5/11/16 05:58	ala	
1/c06.d	1536253,120044:5	L/90007	MSD	1	<2	-a8260sl_a_c/8260ss 5/11/16 06:35	ala	
1/c07.d	50143986005	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 07:13	ala	
1/c08.d	50143986006	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 07:51	ala	
1/c09.d	50144033001	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 08:28	ala	
1/c10.d	50144033002	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 09:06	ala	
1/c11.d	50144033003	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 09:44	ala	
1/c12.d	50144033004	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all 5/11/16 10:22	ala	
1/c13.d	50144033006x5	L/90007	SAMPLE	5	<2	-a8260sl_a_c/all 5/11/16 11:00	ala	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓

File Path 1: \\192.168.50.6\chem\50mv6a.i\a051016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:11 05/11/2016

Page: 1

AD
5.11.16

INSTRUMENT RUN LOG
Pace Analytical Services, Inc.

Instrument: 50mv6a.i
Column DB-624 20m X 0.18mm Helium
Misc. Prep Info [L]:
ISTD lot:
Tune std: _____

Method:

Surr. lot: 120826:5
Cal. std: _____

Path/File	Smp Info	Mtrx/Batch	Type	DF	pH	Method/Sublist Date	Time	Oper	Comments
1/c14.d	50144033006x25	L/90007	SAMPLE	25	<2	-a8260sl_a_c/all	5/11/16 11:38	ala	Dil needed
1/c15.d	50144033007	L/90007	SAMPLE	1	<2	-a8260sl_a_c/all	5/11/16 12:15	ala	
1/c16.d	50144033007x10	L/90007	SAMPLE	10	<2	-a8260sl_a_c/all	5/11/16 12:53	ala	
1/c17.d	50144033008x5	L/90007	SAMPLE	5	<2	-a8260sl_a_c/all	5/11/16 13:31	ala	

Comments: All water samples have a pH below 2 unless otherwise noted. ✓

File Path 1: \\192.168.50.6\chem\50mv6a.i\a051016.b
Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one
Report Date: 14:11 05/11/2016

AD 5.11.16

RACER Trust
Former GM Delco Plant 5

Data Review

KOKOMO, INDIANA

Volatile Organic Compounds Analyses

SDG #50143942

Analyses Performed By:
Pace Analytical
Indianapolis, Indiana

Report #25820R
Review Level: Tier III
Project: IN000884.2016.00007

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #50143942 for samples collected in association with the RACER Trust site in Kokomo, Indiana. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
						VOC	MISC
50143942	MW-0611-S1 (042916) (Low Flow)	50143942001	Water	04/29/2016		X	
	WC-1-LF (042916)	50143942002	Water	04/29/2016		X	
	Trip Blank	50143942003	Water	04/29/2016		X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 8260B. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No other qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-0611-S1 (042916) (Low Flow) WC-1-LF (042916) Trip Blank	ICV %RSD	Acetone	17.6%
		Bromomethane	19.7%
		2-Butanone (MEK)	19.6%
		Chloroethane	15.7%
		Chloromethane	19.9%
		Dichlorodifluoromethane	17.1%
		cis-1,3-Dichloropropene	16.8%
		Trichlorofluoromethane	19.8%
		Vinyl chloride	16.3%
	CCV %D	Bromomethane	35.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

An MS/MSD was not performed on a sample within this SDG.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate was not performed on a sample within this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X	X		
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X	X		
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Validation Performed By: Andrew Korycinski

Signature:

Date: June 26, 2016

Peer Review: Dennis Capria

Date: July 5, 2016

CHAIN OF CUSTODY /
CORRECTED SAMPLE ANALYSIS DATA SHEETS

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

JAS

Page: of 2053671

Section A Required Client Information:

Company: ARCADIS
Address: 132 E. WASHINGTON ST INDIANAPOLIS, IN 46204
Email To: matthew.griles@arcadis.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MATT GRILES
Copy To:
Purchase Order No.:
Project Name: RACER TRUST, KOKOMO
Project Number: IN000884.2016

Section C Invoice Information:

Attention: ACCOUNTS PAY
Company Name:
Address: HIGHLANDS RANCH CO
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-0611-SL(042916)(LOW FLOW)		G			4.29.16	0945		3				X					X		001
2	MC-1-LF(042916)		G			4.29.16	1015		3				X					X		002
3	TRIP Blank					4/29/16			3				✓					✓		
4	added to coc per matt 5/1/16																			
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

5014394 2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME (military)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]/ARCADIS	4/29/16	12:15	Marcia Bennett/Pace	4/29/16	12:15	0.4c	Y	N	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LAUREN FEE
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/29/16

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Client w/ice ORIGINAL

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: MW-0611-S1 (042916) (Low Flow) **Lab ID: 50143942001** Collected: 04/29/16 09:45 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND UJ	ug/L	100	1		05/10/16 21:48	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 21:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 21:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 21:48	75-25-2	
Bromomethane	ND UJ	ug/L	5.0	1		05/10/16 21:48	74-83-9	
2-Butanone (MEK)	ND UJ	ug/L	25.0	1		05/10/16 21:48	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/10/16 21:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 21:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	108-90-7	
Chloroethane	ND UJ	ug/L	5.0	1		05/10/16 21:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 21:48	67-66-3	
Chloromethane	ND UJ	ug/L	5.0	1		05/10/16 21:48	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 21:48	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 21:48	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 21:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 21:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	106-46-7	
Dichlorodifluoromethane	ND UJ	ug/L	5.0	1		05/10/16 21:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 21:48	78-87-5	
cis-1,3-Dichloropropene	ND UJ	ug/L	5.0	1		05/10/16 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 21:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 21:48	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 21:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 21:48	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 21:48	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 21:48	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 21:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 21:48	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 21:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 21:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 21:48	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 21:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 21:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 21:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 21:48	79-01-6	
Trichlorofluoromethane	ND UJ	ug/L	5.0	1		05/10/16 21:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 21:48	76-13-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: MW-0611-S1 (042916) (Low Flow) **Lab ID: 50143942001** Collected: 04/29/16 09:45 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl chloride	ND	UJ ug/L	2.0	1		05/10/16 21:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 21:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	84-118	1		05/10/16 21:48	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-116	1		05/10/16 21:48	460-00-4	
Toluene-d8 (S)	93	%.	86-110	1		05/10/16 21:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: WC-1-LF (042916) **Lab ID: 50143942002** Collected: 04/29/16 10:15 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**30.6J**	ug/L	100	1		05/10/16 22:26	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 22:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 22:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 22:26	75-25-2	
Bromomethane	ND UJ	ug/L	5.0	1		05/10/16 22:26	74-83-9	
2-Butanone (MEK)	ND UJ	ug/L	25.0	1		05/10/16 22:26	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/10/16 22:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 22:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	108-90-7	
Chloroethane	ND UJ	ug/L	5.0	1		05/10/16 22:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 22:26	67-66-3	
Chloromethane	ND UJ	ug/L	5.0	1		05/10/16 22:26	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 22:26	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 22:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 22:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 22:26	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	106-46-7	
Dichlorodifluoromethane	ND UJ	ug/L	5.0	1		05/10/16 22:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 22:26	78-87-5	
cis-1,3-Dichloropropene	ND UJ	ug/L	5.0	1		05/10/16 22:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 22:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 22:26	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 22:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 22:26	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 22:26	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 22:26	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 22:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 22:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 22:26	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 22:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 22:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 22:26	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 22:26	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 22:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 22:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 22:26	79-01-6	
Trichlorofluoromethane	ND UJ	ug/L	5.0	1		05/10/16 22:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 22:26	76-13-1	
Vinyl chloride	ND UJ	ug/L	2.0	1		05/10/16 22:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: WC-1-LF (042916) **Lab ID: 50143942002** Collected: 04/29/16 10:15 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 22:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	84-118	1		05/10/16 22:26	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-116	1		05/10/16 22:26	460-00-4	
Toluene-d8 (S)	97	%.	86-110	1		05/10/16 22:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: Trip Blank **Lab ID: 50143942004** Collected: 04/29/16 08:00 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND UJ	ug/L	100	1		05/10/16 23:03	67-64-1	
Benzene	ND	ug/L	5.0	1		05/10/16 23:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/10/16 23:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/10/16 23:03	75-25-2	
Bromomethane	ND UJ	ug/L	5.0	1		05/10/16 23:03	74-83-9	
2-Butanone (MEK)	ND UJ	ug/L	25.0	1		05/10/16 23:03	78-93-3	
Carbon disulfide	**1.6J**	ug/L	10.0	1		05/10/16 23:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/10/16 23:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	108-90-7	
Chloroethane	ND UJ	ug/L	5.0	1		05/10/16 23:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/10/16 23:03	67-66-3	
Chloromethane	ND UJ	ug/L	5.0	1		05/10/16 23:03	74-87-3	
Cyclohexane	ND	ug/L	100	1		05/10/16 23:03	110-82-7	N2
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	1		05/10/16 23:03	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/10/16 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/10/16 23:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	106-46-7	
Dichlorodifluoromethane	ND UJ	ug/L	5.0	1		05/10/16 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/10/16 23:03	78-87-5	
cis-1,3-Dichloropropene	ND UJ	ug/L	5.0	1		05/10/16 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/10/16 23:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/10/16 23:03	100-41-4	
2-Hexanone	ND	ug/L	25.0	1		05/10/16 23:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/10/16 23:03	98-82-8	
Methyl acetate	ND	ug/L	50.0	1		05/10/16 23:03	79-20-9	N2
Methylcyclohexane	ND	ug/L	50.0	1		05/10/16 23:03	108-87-2	N2
Methylene Chloride	ND	ug/L	5.0	1		05/10/16 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/10/16 23:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/10/16 23:03	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/10/16 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/10/16 23:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/10/16 23:03	127-18-4	
Toluene	ND	ug/L	5.0	1		05/10/16 23:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/10/16 23:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/10/16 23:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/10/16 23:03	79-01-6	
Trichlorofluoromethane	ND UJ	ug/L	5.0	1		05/10/16 23:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5.0	1		05/10/16 23:03	76-13-1	
Vinyl chloride	ND UJ	ug/L	2.0	1		05/10/16 23:03	75-01-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Racer Trust, Kokomo
Pace Project No.: 50143942

Sample: Trip Blank **Lab ID: 50143942004** Collected: 04/29/16 08:00 Received: 04/29/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Xylene (Total)	ND	ug/L	10.0	1		05/10/16 23:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	84-118	1		05/10/16 23:03	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-116	1		05/10/16 23:03	460-00-4	
Toluene-d8 (S)	95	%.	86-110	1		05/10/16 23:03	2037-26-5	

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Client	Arcadis
Project name #	Kokomo, Indiana
OU Project Ref. #	1004
Number/Type of Samples	10/water
Analysis Required	C CSIA, TCE
Date Received	3/10/2016

Summary; Averages

SampleID	Analyte	Unit	Result, average
FD-01	TRICHLOROETHENE	δ13C, VPDB	-21.4
MW-0101-S1U	TRICHLOROETHENE	δ13C, VPDB	-29.5
MW-0102-SIU	TRICHLOROETHENE	δ13C, VPDB	-24.0
MW-0504-SI	TRICHLOROETHENE	δ13C, VPDB	-25.9
MW-0517-SI	TRICHLOROETHENE	δ13C, VPDB	-21.4
MW-0606-SI	TRICHLOROETHENE	δ13C, VPDB	-25.7
MW-0612-SI	TRICHLOROETHENE	δ13C, VPDB	-29.3
MW-0621-SI	TRICHLOROETHENE	δ13C, VPDB	-28.5
MW-0622-S1	TRICHLOROETHENE	δ13C, VPDB	-26.7
MW-0704-SI	TRICHLOROETHENE	δ13C, VPDB	-19.7

Run #	SampleID	Vial #	Sample volume (µl)	Date analyzed
3576	Lab control sample			April 21, 2016
3577	Lab control sample			April 21, 2016
3578	Lab control sample			April 21, 2016
3585	Lab control sample			April 22, 2016
3592	Lab control sample			April 22, 2016
3589	FD-01	1	75	April 22, 2016
3580	MW-0101-S1U	1	34	April 21, 2016
3584	MW-0102-SIU	1	95	April 21, 2016
3586	MW-0504-SI	1	125	April 22, 2016
3581	MW-0517-SI	1	65	April 21, 2016
3588	MW-0606-SI	1	120	April 22, 2016
3583	MW-0612-SI	1	95	April 21, 2016
3591	MW-0612-SI	1	100	April 22, 2016
3582	MW-0621-SI	1	75	April 21, 2016
3579	MW-0622-S1	1	22	April 21, 2016
3587	MW-0704-SI	1	160	April 22, 2016
3590	MW-0704-SI	1	160	April 22, 2016

Analyte	Unit	Result	Remarks
TRICHLOROETHENE	δ13C, VPDB	-30.6	
TRICHLOROETHENE	δ13C, VPDB	-30.8	
TRICHLOROETHENE	δ13C, VPDB	-30.7	
TRICHLOROETHENE	δ13C, VPDB	-31.0	
TRICHLOROETHENE	δ13C, VPDB	-30.8	
TRICHLOROETHENE	δ13C, VPDB	-21.4	
TRICHLOROETHENE	δ13C, VPDB	-29.5	
TRICHLOROETHENE	δ13C, VPDB	-24.0	
TRICHLOROETHENE	δ13C, VPDB	-25.9	
TRICHLOROETHENE	δ13C, VPDB	-21.4	
TRICHLOROETHENE	δ13C, VPDB	-25.7	
TRICHLOROETHENE	δ13C, VPDB	-29.4	
TRICHLOROETHENE	δ13C, VPDB	-29.2	
TRICHLOROETHENE	δ13C, VPDB	-28.5	
TRICHLOROETHENE	δ13C, VPDB	-26.7	
TRICHLOROETHENE	δ13C, VPDB	-19.7	
TRICHLOROETHENE	δ13C, VPDB	-19.6	

Run #	SampleID	Date analyzed	Analyte
3576	Lab control sample	April 21, 2016	TRICHLOROETHENE
3577	Lab control sample	April 21, 2016	TRICHLOROETHENE
3578	Lab control sample	April 21, 2016	TRICHLOROETHENE
3585	Lab control sample	April 22, 2016	TRICHLOROETHENE
3592	Lab control sample	April 22, 2016	TRICHLOROETHENE

Unit	Result
δ13C, VPDB	-30.6
δ13C, VPDB	-30.8
δ13C, VPDB	-30.7
δ13C, VPDB	-31.0
δ13C, VPDB	-30.8
average	-30.8
stdev	0.1
off-line δ of the standard	-30.8

Arcadis U.S., Inc.

132 E. Washington Street

Suite 600

Indianapolis, Indiana 46204

Tel 317 231 6500

Fax 317 231 6514

www.arcadis.com